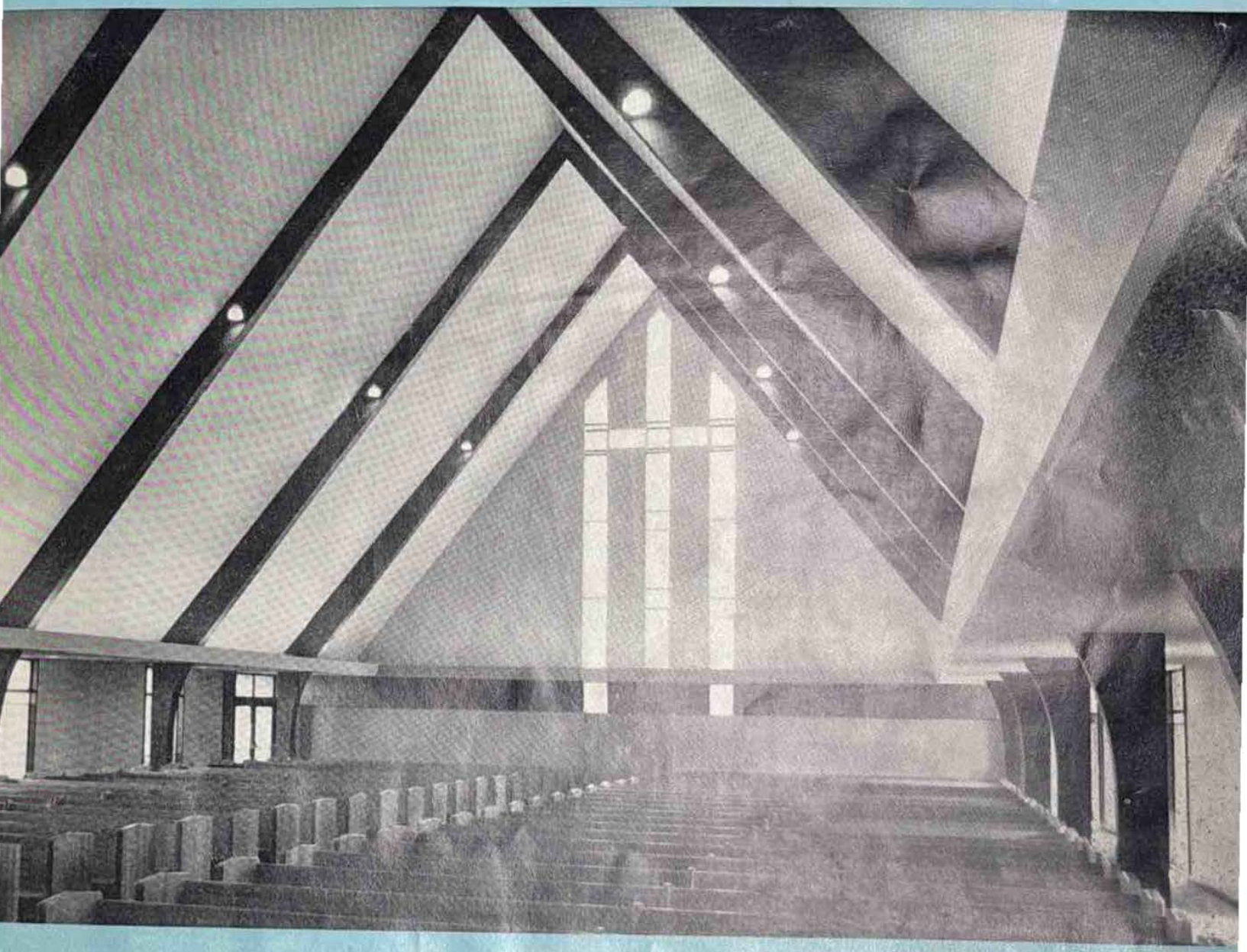
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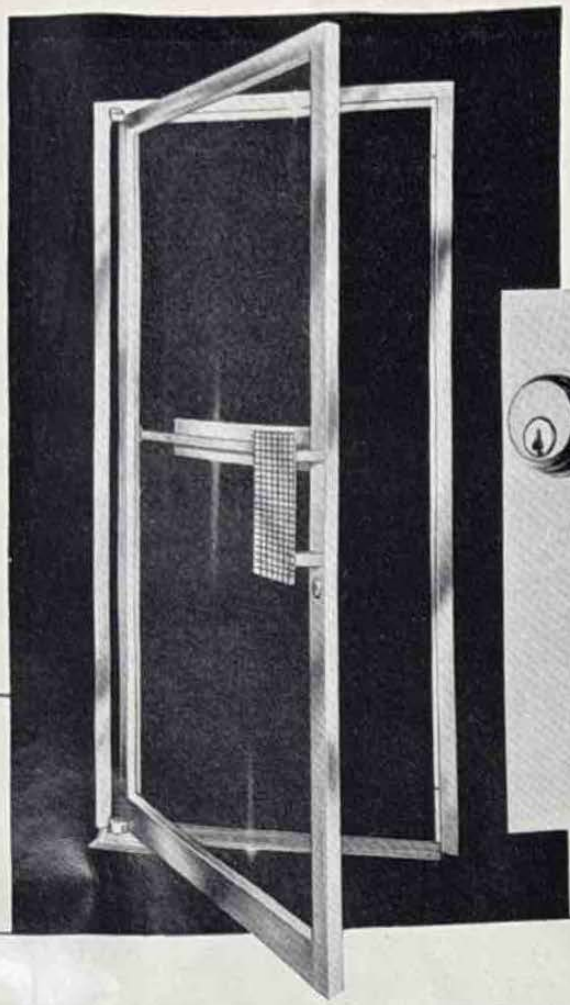
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WITH CONSTRUCTION NEWS BULLETIN



In this issue

Two award-winning church buildings
A few thoughts on church decoration
The architect and commercial structures



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The MS deadbolt is the strongest, most compact deadlock yet devised for narrow-stile aluminum doors. It retains as much bolt within the lock stile as is projected. Thus it bridges the opening with a laminated bar of steel. This rigid construction makes forced entry impossible without complete destruction of the door channel itself.

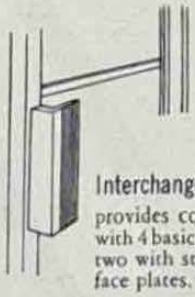




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Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

JANUARY BPA 1957

VOLUME 63 NUMBER 1

Cover: Alhambra (Calif.) Friends Community Church (p. 14). Harold B. Zook, AIA, architect; Preston E. Mitchell photo.

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mushrooming practice

We know of at least one architect who is up on the life cycle of mushrooms. In designing the first scientific mushroom plant on the West Coast for Campbell's, John S. Bolles of San Francisco had to solve a number of problems in approaching an age-old industry. He had to plan a building that could be easily maintained and would resist rapid deterioriation, since mushrooms require high humidity and constant replenishment of fertilizer; and the plant also had to be accessible to a constant water supply to keep the mushrooms moist.

At any rate, a mushroom farm is now being built at Gazos Creek near Half Moon Bay, Calif., consisting of concrete structures for the growth of the mushrooms, a large compost pad for the mixture of fertilizer and a concrete shed to store topsoil.

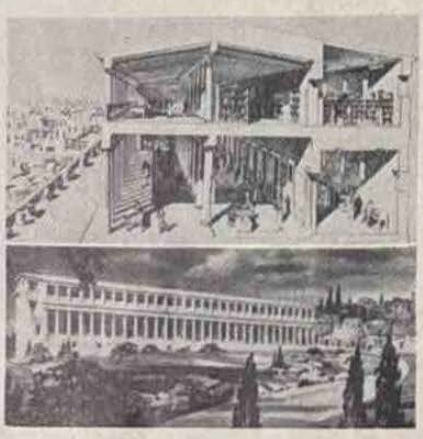
not too tired

The various AIA chapter publications which come across our desk each month not only are informative but often provide a chuckle or two and remind us that architects really are human! As one piece of evidence, we quote from the December issue of "Inland Empire Architect," edited in Spokane by Norm Sylvester.

"A retired architect we know recently went to an auction and was the successful bidder (25c) on a bushel basket of miscellany—crockery, cutlery, Christmas ornaments and a large book FUN TO HUG which had caught his roving eye and prompted the bid. Having arrived home he inspected his motley acquisitions and was about to settle comfortably down with the book when he opened its cover and saw the full title: Encyclopaedia Britannica. Fun to Hug. Vol. 7.

when in greece

Modern engineering techniques and Rilco glued-laminated wood members are helping to restore the Stoa of Attaloa, one of the most beautiful buildings of ancient Greece and a symbol of its art and learning. In the year 267 barbarians plundered and destroyed the building and time covered the ruins with earth. Since excavation began 25 years ago, more than 60,000 items dating from 6,000 B.C. have been found, including statues, vases, metallic pieces and whole structural members. Now the original timber roof beams are being simulated by members designed and manufactured by Rilco at Albert Lea, Minn.



heard that song before

Addressing a conference of state medical associations a while back, a Kentucky doctor warned that physicians and medical societies must abandon "their ivory towers" and "in some instances their stuffed-shirt attitudes." To which architects and engineers will say "amen."

american art abroad

Anyone who is acquainted with the annual International Design Conference at Aspen, Colo., will be interested to learn of the activities of Herbert Bayer, an artist who is currently engaged in completing several architectural projects at the Institute of Humanistic Studies, where the design sessions are held. His exhibit including 250 items in the fields of painting, typography, graphic design, color work, murals, exhibition design and architecture opened in Nurnberg last fall and is touring Munich and other West German cities before moving on elsewhere in Europe.

"The German people are deeply interested in learning how art and design in America have progressed since the late 1930s," comments Bayer, who became consultant at Aspen in 1945 at the invitation of Container Corp. chairman Walter P. Paepcke. "For many years they were closed off from all contact with the outside world of art and a new generation has grown up that knows little about what has been happening in America."

A native of Austria, Bayer studied and taught at the Bauhaus in Germany, coming to America in 1938 when the Nazi darkness closed down.

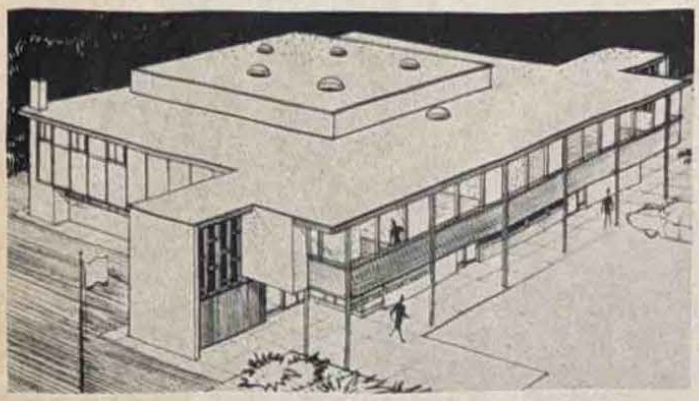
job-seekers' note

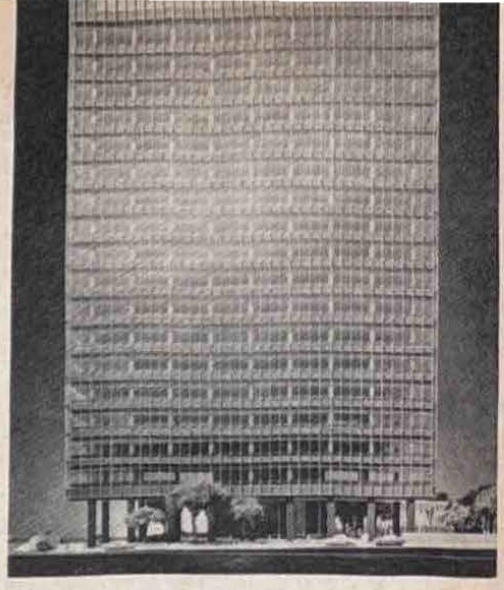
A London architect insists that West Africa is an "architect's paradise" because that area has virtually no deep-rooted architectural traditions. "These countries can develop a harmonious, exciting architectural expression that will assure them a place in modern design," says he.

PERSPECTIVES

by Pacific architects

TERRITORY OF ALASKA will soon have new U.S. courthouse, postoffice and office building in Kodiak. Two-story structure is being constructed on solid rock, with postoffice occupying entire first floor. Judicial offices, library, commissioner's office, etc., will take up second floor, whose cantilevered areas create covered walk to postoffice below. Exterior walls are reinforced concrete at first floor level, porcelainized panels on upper level street front. Architect: Robert Hugh Ross of Seattle.



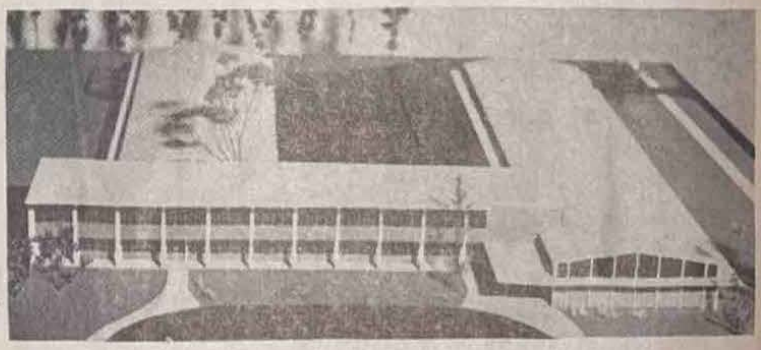


MODEL of new 20-story steel and glass building which will go up soon in downtown San Francisco as headquarters of Crown Zellerbach Corp. Project is planned as "the world's most modern office building." Target date for completion is mid-1958 and razing is now underway of nine structures in block bounded by Market, Battery, Bush and Sansome streets where new building will be erected. Architects: Hertzka & Knowles; associated architects, Skidmore, Owings & Merrill.



MODERNIZATION PROGRAM of existing six-story Kjos Building in Seattle will cost more than $500,000. Exterior street elevations will be refaced with new aluminum and porcelain enamel curtain wall facade, columns with ceramic veneer. Other new features: lobby, automatic elevator, city steam heating system and plumbing facilities. Architects: Bittman & Sanders.

ALL-WOOD RESEARCH CENTER shown in model will house Oregon Forest Products Laboratory and Forest Lands Research adjacent to Oregon State College at Corvallis. Two-story central area with offices and two wings will comprise 40,760 sq. ft. Materials will include t&g panel exterior walls, hardboard interior walls and glued-laminated arches. Architect: James L. Payne.





POLICE STATION to be built in North Hollywood, Calif., will be used as prototype for all stations throughout valley areas and outlying sections. City intends to construct identical building on other sites. Costing an estimated $450,000, 1½-story structure will have poured concrete walls, steel truss roof and exposed mosaic tile partitions. Architect: William Allen.

Building News - Trends - Views

PROJECT SCIENCE, a cooperative effort of management and labor groups, is playing a big role in the construction of a new Oregon Museum of Science and Industry in Portland. Actual start of the building is scheduled for February but in the meantime the Building and Construction Trades Council is coordinating labor donations and the Oregon Building Congress, representing management, is coordinating specifications and quantity lists of materials needed. Henry M. Mason of Henry M. Mason Co. will act as general contractor on a non-profit basis. Estimated value of the museum, to be built near the zoo under construction in Hoyt Park, is $492,000. (For photo of model, see PA&B January 1956).

BUILDING MATERIALS MANUFACTURERS have been given the green light to take over the Women's Housing Congress, initially sponsored by the Housing and Home Finance Agency. Exploring entirely new areas of family needs, the meeting will give women delegates an opportunity to express themselves on basic components used in good home building.

NUCLEAR POWER HAS BEEN GENERATED from an experimental atomic reactor in Lemont, Ill., the first under the civilian reactor-development program begun in 1954 by the Atomic Energy Commission. The first atomic power came five years ago at the Arco, Idaho, reactor. The Lemont reactor is of a different type.

SANDWICH PANELS may soon take the place of columns and other conventional supports in a number of different types of buildings. Edward Kuenzi, scientist at the U. S. Forest Products Laboratory, says that even though the load-bearing capacity of properly designed structural sandwich panels has been conclusively proved in tests, only the aircraft industry has taken full advantage of this fact to date. He adds, however, that the panels are bound to become more important in building because of the increasing need for cutting costs while maintaining high standards.

HOW THE AVERAGE PUBLIC SCHOOL AGES decade by decade is being developed through a research program at the University of Michigan. Schools considered "unsatisfactory" thus far have been so rated because of educational deficiencies, fire and structural hazards present, poor location or a site too small to meet future needs.

PROJECTS OF NOTE: A luxury hotel, a modern office building and a 600-car underground garage on the property will be built in San Francisco on a block bounded by Van Ness Avenue, Geary, Post and Franklin streets, which has involved the largest land lease deal in recent years in the Bay area. Jack Tar Hotels will operate the hotel, plans for which "have the best convention facilities I have ever seen," comments president E. C. Leach.

Los Angeles architects Pereira & Luckman are designing a $15 million research and development center to investigate problems of bringing a man-carrying satellite back into the earth's atmosphere from outer space. To be built in Wilmington, Mass., by Avco Manufacturing Corp., the center will provide administrative and scientific offices as well as laboratories and experimental facilities for over 1,500 employees. Window exposures are planned to afford an "airborne" view of pine trees in the surrounding woods, thus giving a sense of release from the building's confines.

AMERICAN CONCRETE INSTITUTE will hold its 53rd annual convention February 25-28 at the Statler-Hilton Hotel in Dallas. General sessions will be devoted to concrete design and construction, materials, prestressed concrete, lightweight aggregates and the annual research seminar.

FORECASTERS SEE ANOTHER BANNER BUILDING YEAR FOR 1957

Construction forecasts for 1957 predict a new record level at least slightly ahead of last year. A rise in nonresidential work is expected to offset what every prognosticator sees as a drop in home building.

Dr. Robinson Newcomb, market analyst for the Structural Clay Products Institute, believes that physical volume of building will be about the same this year as in 1956 but construction activity will increase about 2% in current prices. He predicts 1,000,050 housing starts, a decrease of 50,000, and an increase of 4.4% in nonresidential construction.

R. Reese Myers, president of the Los Angeles Home Builders Institute, reports a trend among buyers toward larger homes in contrast to the demand for smaller ones which followed the end of World War II. A HBI survey conducted last year indicated that only one builder member is now constructing homes with two bedrooms and a convertible den. All other developments are offering residences with three or more bedrooms. And the National Association of Home Builders says it looks for higher price tags on house construction in 1957. The median price is expected to be about $15,000, an increase of about 3.4%.

The apparent dip in home building has spurred some manufacturers to action. National Gypsum Co., long primarily a producer of home building materials, is entering the commercial and industrial construction field this month "in a major way." Board chairman Melvin H. Baker says the move was dictated by the current home building decline which has cut into company sales. He predicted that by 1960 National Gypsum's nonresidential sales will account for more than 25% of the firm's total; today they account for only 12%. Several new products are being developed by company scientists.

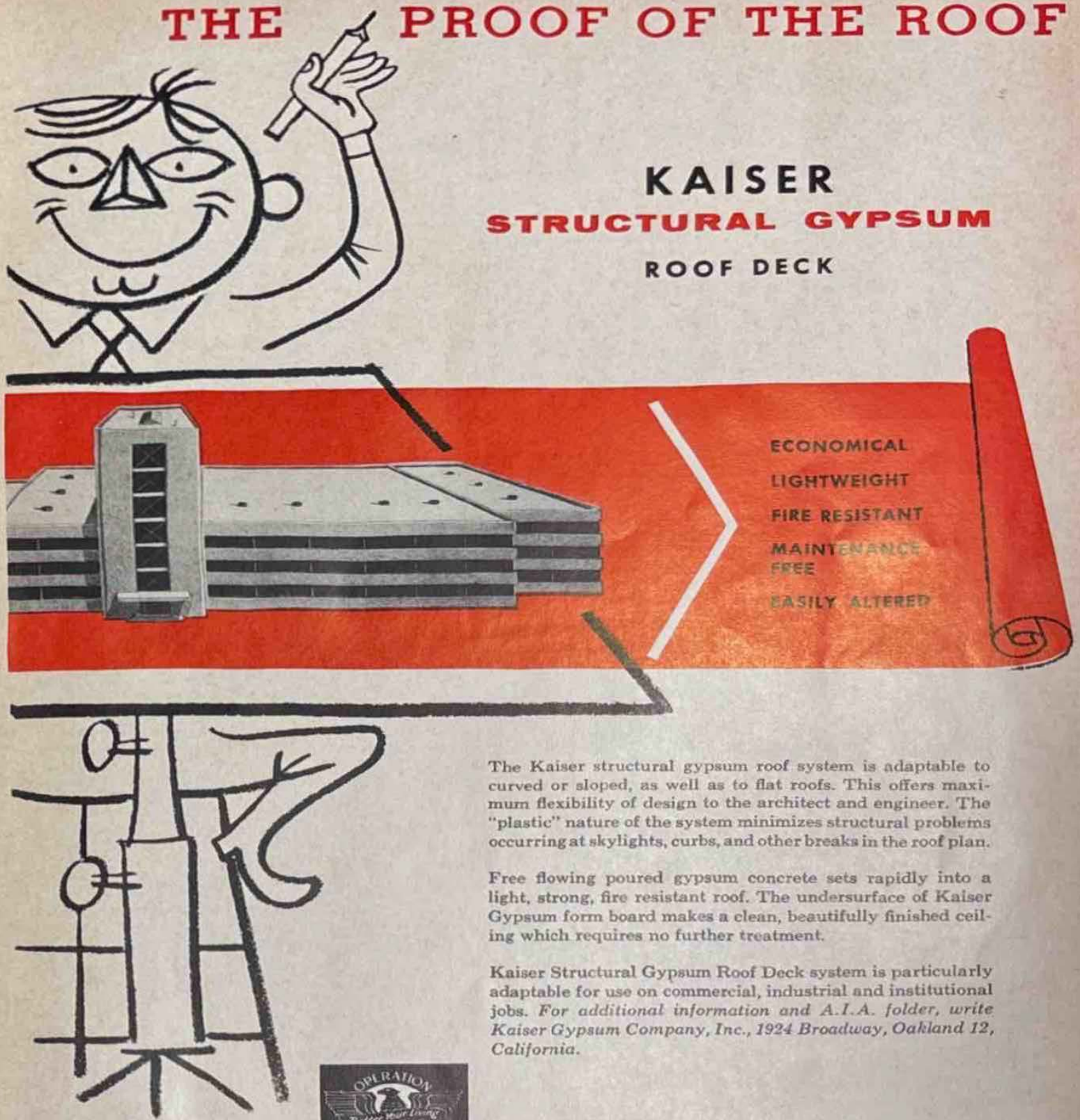
A crest in commercial building is likely to become evident within 12 to 18 months, according to Walter E. Hoadley Jr., treasurer of Armstrong Cork Co. By that time much of the "catching up" caused by unfavorable depression, war and postwar conditions will have been accomplished.

One of the most optimistic outlooks comes from Mosaic Tile president Roy E. Jordan Jr., who forecasts a 5% increase in new housing starts, an ever-expanding modernization market, an estimated 33% rise in industrial construction and accelerated school, church and hospital programs.

His optimism about church construction is substantiated by the U. S. Department of Commerce which reports that a record $775 million spent in 1956 for new and enlarged religious buildings will be upped about 13% this year. That would make the total outlay a whopping $875 million. The Catholic Archdiocese of Los Angeles alone in the past two years has established 19 new parishes, an average of almost one every month.

Newcomb agrees with Jordan concerning the industrial, school and church programs but predicts that hospital and institutional construction may drop as much as 15% with smaller expenditures for both private and publicly sponsored facilities. He explains that new drugs and medical and administrative techniques are permitting more intensive use of existing facilities.

THE PROOF OF THE ROOF



The Kaiser structural gypsum roof system is adaptable to curved or sloped, as well as to flat roofs. This offers maximum flexibility of design to the architect and engineer. The "plastic" nature of the system minimizes structural problems occurring at skylights, curbs, and other breaks in the roof plan.

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WINNING ENTRY in 1956 Home of the Month competition, co-sponsored by AIA and Seattle Times: two-level residence perched high above Puget Sound, designed by Benjamin F. McAdoo Jr., AIA. At left, clients Mr. and Mrs. George H. Hage receive $500 check from Russell W. Young, Times advertising manager, while James J. Chiarelli, who heads Washington State chapter, AIA, and McAdoo, holding his sculptured award, look on.

Seattle names 1956 Home of Month

A two-level residence designed for a family of four by Benjamin McAdoo Jr., was named the winning entry in the 1956 Home of the Month competition, co-sponsored by the Washington State chapter, AIA, and the Seattle Times. The house overlooks Puget Sound in suburban Gregory Heights.

McAdoo was awarded a wooden relief sculpture done by George Tsutakawa, assistant professor of art at the University of Washington, while the clients, Mr. and Mrs. George H. Hage, received a $500 check from Russell W. Young, Times advertising manager. The presentations were made at a dinner in the Benjamin Franklin Hotel January 10. Michael Leder, contractor for the home, also was honored.

Of post and beam construction, the three-bedroom house has a masonry veneer exterior. The 1,350 sq. ft. include a master bedroom and bath, den, living room, family room and kitchen nook on one floor; and two bedrooms and bath, a recreation room and utility area on the lower level.

Other architects and firms who competed were James Ellison, Mithun & Nesland, Paul Hayden Kirk, Parr & Soldano, Ted LaCourse, A. O. Bumgardner, Wortman & Wilkins, Bell & Beatty. Lawrence & Hazen and Durham, Anderson & Freed.

Oregon picks architects for capitol mall planning

The Eugene firm of Wilmsen & Endicott has been retained to start work on a far-reaching master plan for Oregon's state capitol area development in Salem over the next 50 years.

Associated with the architects will be three consultants: Francis Keally of New York, who had a major part in designing the present capitol and planning the mall; Herman Brookman of Portland, FAIA, of the Capitol Planning Commission; and Lloyd Bond, landscape architect of Eugene.

The architects will project office space, parking and other space additions to the capitol group under a $50,000 contract, of which $10,000 will be used for state agency surveys and other contingencies.

Both graduates of the University of Oregon, Robert Wilmsen and Charles W. Endicott have done considerable school, courthouse and civic planning in Eugene. The State Board of Control indicated that about 35 architects or firms actively sought or showed interest in the contract.

AIA CENTENNIAL GETS UNDERWAY IN WEST

The centennial anniversary program of the American Institute of Architects will have its opening on a local level February 1 in Honolulu when the Hawaii chapter holds its annual dinner. Among the guests will be Donald Beach Kirby of San Francisco, director of the AIA's California-Nevada-Hawaii district.

And while New Yorkers will be dedicating a bronze tablet at 111 Broadway, site of the institute's founding, February 23, one of their members, Philip Johnson, will be addressing the Washington State chapter in Seattle.

Hi-fi, plastics exhibits set for Los Angeles

Indicating the tempo of the time are the high fidelity and plastics expositions which will be staged in Los Angeles within the next two months.

The High Fidelity Music Show will get underway in the Ambassador Hotel at 2 p.m., February 6, with more than 100 component manufacturers exhibiting products. In addition to a number of "firsts" to be introduced, a series of seminars will be conducted by specialists in the various component fields.

The American Institute of Architects will be among the groups participating in the show, sponsored by the Institute of High Fidelity Manufacturers.

Growing use of plastics in building will be pinpointed at the Pacific Coast Plastics Exposition March 18-21. About 100 national companies are expected to exhibit in Shrine Exposition Hall.

The show will be held jointly with the annual national conference of the Society of the Plastics Industry, Inc.

NAHB to hold Northwest meeting next month

A preview of the future in home construction, seen through new products and material displays, will be a special feature of the Northwest regional convention of the National Association of Home Builders to be held in Seattle February 14-17 at the New Washington Hotel.

The meeting will draw builders and their associates from Washington, Oregon, Idaho. Montana, Alaska and western Canada. Technical panel discussions, business problems and prominent speakers in the construction field will round out the program.

Steel manufacturer plans $25 million expansion

Bethlehem Pacific Coast Steel Corp. has announced a $25 million expansion at its Seattle plant, raising the annual capacity from 246,000 to 420,000 ingot tons.

During the next three years the company will install two 100-ton capacity electric furnaces, soaking pits and a 32-in. blooming mill. The furnaces, largest in the West, will replace five open hearth furnaces now in use.

Bethlehem Pacific president H. H. Fuller points out that availability of new grades and sizes, as well as larger quantities, should encourage the growth and diversification of construction and manufacturing industries of the Pacific Northwest.

Building permits for 1956 up $63 million

BUILDING PERMIT VOLUME in the five western states for 1956 topped the 1955 total by $63½ million. Based on reports from 116 key building permit agencies in California, Oregon, Washington, Montana and Idaho, the dollar volume reached $2,563,972,674, representing a 2½% increase over the $2,500,425,102 recorded the previous year.

On a percentage basis, Oregon showed the largest rate of increase, 7½%. The state's agencies reported a dollar increase of $10½ million. California with a $56 million rise was up 2½%, Idaho with a $½ million increase was up 2½% and Montana reported a bare $21,000 increase. Washington dropped $3¾ million for a 1% loss.

The picture was extremely spotty with just barely over half the agencies in each state recording increases. Agencies where dollar volume was up $5 million or more included Bakersfield, $5¾ million; Long Beach, $7¼ million; Los Angeles, $51½ million; Oakland, $8½ million; Sacramento, $8¼ million; San Bernardino County, $31¼ million; San Diego, $19½ million; San Diego County, $12½ million; San Jose, $17½ million; Santa Monica, $5½ million; Corvallis, $6 million; Seattle, $8 million; Spokane, $7 million; and Tacoma, $6½ million.

For the month of December, the five-state total was $172,130,312, a 15½% increase over the $148,758,551 in the same month of 1955. California gained $19½ million for a 16% increase; Oregon, $1¼ million for 22% increase; Washington, $5 million for 34% increase; Montana was down $1½ million for 75% decrease; and Idaho down $½ million for 33% decrease.

Following is a breakdown of building permits issued by several of the major agencies during December.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	56	($ 627,270)	19	($ 941,000)	4	($ 213,250)
King County	222	(2,460,650)	34	(474,321)	2	(430,056)
Seattle	109	(2,386,150)	18	(672,200)	4	(1,247,490)
Tacoma	63	(308,690)	22	(1,008,455)	2	(53,700)
Los Angeles Co.	1974	(16,991,295)	454	(9,048,544)	23	(478,600)
Orange County	154	(1,288,191)	52	(985,233)	4	(402,210)
Sacramento Co.	282	(1,897,905)	40	(328,797)	14	(924,003)

Building Permit Totals for 116 Western Agencies for December and 1956

CALIFORNIA	Dec. 1956	1956	1955
Alameda County	$ 2,073,450	$ 34,146,120	$ 48,406,667
Anaheim	1,674,565	37,221,834	50,638,247
Bakersfield	331,688	17,604,972	11,890,986
Burbank	689,459	13,570,713	12,923,742
Contra Costa County	3,547,120	42,417,998	47,083,029
Fresno	960,245	15,874,615	28,453,716
Fullerton	1,533,511	21,685,890	41,907,358
Glendale	587,604	18,226,764	16,851,701
Inglewood	483,580	10,658,278	10,769,942
Long Beach	16,172,540	67,884,575	60,616,535
Los Angeles	37,761,724	484,962,749	433,460,885
Los Angeles County	27,109,281	368,961,037	367,715,858
Oakland	3,602,748	39,011,893	30,565,091
Ontario	294,339	11,917,661	13,886,569
Orange County	2,844,783	105,625,789	125,450,960
Palo Alto	903,098	18,226,659	19,197,584
Pasadena	983,600	21,366,424	23,568,653
Pomona	1,516,387	21,073,510	23,179,870
Richmond	136,779	12,935,274	9,816,909
Riverside	1,786,815	25,863,260	26,257,551
Sacramento	1,562,883	35,462,172	27,222,799
Sacramento County	3,191,015	65,479,246	68,711,435
San Bernardino	1,166,495	18,586,410	18,544,710
San Bernardino Co.	4,536,408	96,753,861	65,368,285
San Diego	11,437,305	105,012,355	85,460,583
San Diego County	3,534,400	46,737,980	34,301,255
San Francisco	4,204,228	66,065,470	64,680,018
San Jose	2,444,173	56,553,190	39,002,944
San Mateo	573,312	12,335,481	25,352,090
San Mateo County	1,028,966	23,472,389	31,734,755
Santa Ana	1,083,119	26,546,087	23,223,359
Santa Monica	969,646	19,365,429	13,923,596
Stockton	488,543	12,192,545	23,330,036
Sunnyvale	1,304,375	21,633,147	19,320,256
Torrance	344,162	46,482,600	42,575,940
West Covina	2,147,259	22,731,385	23,249,313
TOTAL	$145,009,605	$2,064,663,762	$2,008,665,227

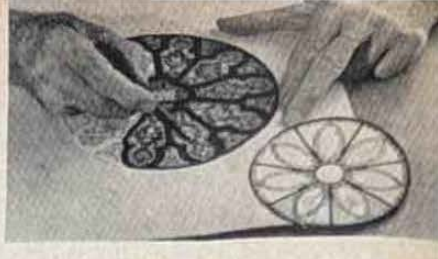
OREGON	Dec. 1956	1956	1955
Albany	$ 79,650	$ 2,048,102	$ 1,485,100
Astoria	45,560	1,742,330	789,913
Baker	300	395,583	892,777
Bend	74,950	1,103,326	2,222,645
Coos Bay	132,250	1,007,684	1,269,014
Corvallis	29,144	8,092,294	2,042,134
Eugene	349,950	8,285,285	4,548,363
Grants Pass	81,150	2,137,725	1,754,740
Gresham	12,000	911,760	714,685
Hillsboro	17,875	969,357	938,587
Klamath Falls	82,982	2,892,191	1,435,371
La Grande	12,300	489,119	718,847
Lane County	278,770	10,163,058	9,335,017
Medford	349,575	3,794,674	2,751,439
Multnomah County	1,591,755	33,472,776	36,023,544
North Bend	66,885	3,060,211	861,304
Oregon City	4,435	928,271	652,609
Pendleton	195,350	2,482,249	2,351,188
Portland	2,529,680	45,106,070	46,808,340
Roseburg	66,450	2,410,992	2,142,800
Salem	65,370	5,794,806	6,067,223
Springfield	24,180	1,283,920	1,909,785
The Dalles	64,225	1,374,322	1,581,623
TOTAL	$ 6,154,786	$ 139,945,105	$ 129,296,048

WASHINGTON	Dec. 1956	1956	1955
Aberdeen	$ 35,775	$ 1,505,819	$ 1,339,812
Anacortes	11,400	1,013,441	2,617,760
Auburn	71,275	1,128,450	753,840
Bellingham	192,633	4,931,479	4,143,535
Bremerton	30,440	1,896,051	3,030,646
Centralia	33,108	876,546	736,156
Chehalis	15,484	685,539	538,545
Clarkston	8,670	646,151	1,145,080
Ellensburg	8,050	463,066	1,637,952
Ephrata	6,500	1,239,308	2,234,265
Everett	60,586	3,929,316	3,607,764
Kelso	16,900	378,700	749,300
Kennewick	6,500	1,131,373	2,826,705
King County	3,346,671	71,825,382	81,442,972
Kirkland	28,800	724,750	1,493,984
Longview	150,173	3,697,658	3,496,682
Moses Lake	54,944	3,472,801	6,761,391
Olympia	77,897	2,868,084	2,581,707
Pasco	153,025	1,615,005	2,670,403
Pierce County	547,525	21,010,889	20,300,232
Port Angeles	27,560	1,591,826	882,130
Puyallup	25,422	1,648,833	1,336,925
Ritzville	35,000	293,475	407,710
Seattle	5,246,295	80,063,120	71,939,665
Shelton	29,500	834,975	638,835
Spokane	5,586,740	34,770,353	27,818,911
Spokane County	1,341,845	20,004,324	27,875,174
Sumner	15,500	313,185	349,521
Tacoma	1,556,063	21,376,406	14,862,013
Vancouver	348,696	6,856,482	7,477,012
Walla Walla	15,290	2,366,539	3,490,231
Wenatchee	76,791	3,236,967	1,963,685
Yakima	238,875	6,769,114	5,864,146
TOTAL	$ 19,409,933	$ 305,175,408	$ 308,914,689

MONTANA	Dec. 1956	1956	1955
Billings	$ 133,100	$ 8,613,380	$ 9,212,840
Bozeman	26,600	896,300	1,084,920
Butte	21,654	1,353,204	1,618,481
Glasgow	28,000	574,983	891,876
Glendive	18,000	858,069	898,122
Great Falls	98,331	7,747,695	7,234,195
Helena	77,270	3,974,875	3,572,010
Kalispell	33,900	1,528,301	1,290,919
Lewistown	16,000	707,146	651,550
Livingston	1,600	900,344	429,580
Miles City	9,280	891,435	808,580
Missoula	35,900	1,377,053	2,102,756
TOTAL	$ 499,635	$ 29,322,785	$ 29,301,829

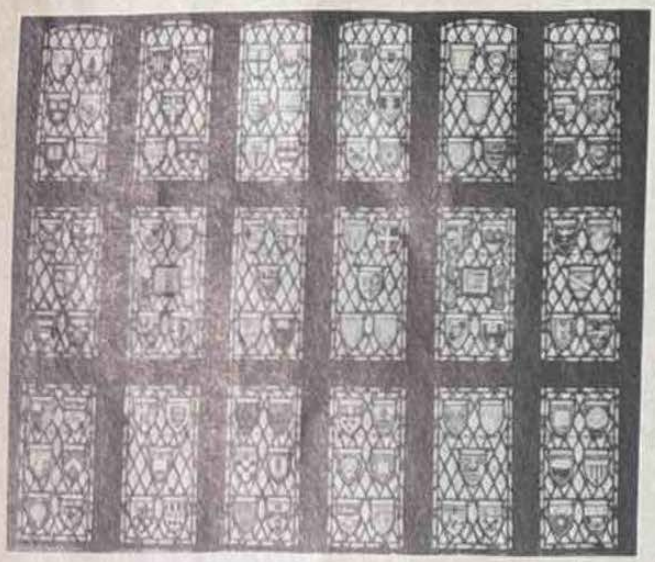
IDAHO	Dec. 1956	1956	1955
Boise	$ 235,442	$ 4,478,166	$ 6,235,115
Caldwell	21,450	1,060,942*	1,079,810*
Coeur d'Alene	115,200	2,418,885	1,945,250
Idaho Falls	133,000	5,337,203	5,091,759
Jerome	10,200	554,905	318,825
Lewiston	62,475	1,737,243	2,609,267
Nampa	39,990	1,900,480	1,303,445
Payette	15,825	300,985	309,395
Pocatello	107,071	3,265,478	2,914,822
Sandpoint	8,500	207,900	367,461
St. Maries	Nil	494,457	38,700
Twin Falls	306,200	3,108,970	2,033,460
TOTAL	$ 1,056,353	$ 24,865,614	$ 24,247,309
GRAND TOTAL	$172,130,312	$2,563,972,674	$2,500,425,102

*Figures represent only nine months





SACRISTY WINDOW, Cathedral of St. Vibiana, Los Angeles, designed and produced by Judson Studios, which also produced window below.



"UNIVERSITY" WINDOW, Westwood Hills Christian Church near UCLA campus, designed by its pastor, Dr. Jesse Randolph Kellems. Valued at $15,000, it bears coats of arms of 96 educational institutions in 10 panels, beginning with first European university at Salerno. Soft light which enters 12x14-ft. window eliminates need for artificial illumination of balcony area of church.

Church decoration

by HORACE T. JUDSON, Judson Studios, Los Angeles

LET US ADMIT before we start that the ornament and color of the church present the most controversia subject matter confronting a building committee. A happy resolution of these functions will weld a churc together as nothing else will.

In this house of prayer, this house of God, we wil assume that the architect has offered a physically realisti solution to the needs of clergy, choir and congregation In the selection of ornaments, color, decoration and stained glass, we must augment the architecture and integrate the personality of the individual with God

For this purpose it is essential that the craftsmen in stained glass, wood, silver and color work with the architect to achieve a harmonious expression that will exemplify the highest corporate worship of the congregation

Fundamentally it is a matter of cooperation and thought rather than money that will lead to the happiest results. While we can not go into details of style and color, there are basic notes of which we must be continually cognizant.

First, I believe that the architect and all craftsmen concerned with the decoration of a church, from the walls to the altar, must lose their individuality to the extent that their cumulative effort will speak of the beauty of God, rather than their particular idiosyncrasies. This unity of effort can not help but reflect itself in the completed church.

As a church is seldom completed at the time of its erection with the richness of memorials and appointments the committee has envisaged in its completed planning, all details as to the ultimate in glass, silver and decoration must be prepared for and endorsed by the architect, clergy and committee as an expression of their faith and as a guide toward the worshipful beauty of the church.

To this end an ecclesiologist rather than an interior decorator should be retained or repeatedly consulted for such a man is well versed in the liturgy, history and symbolism of our church and can guide and direct the thinking of the committeemen along the lines of artistic beauty as well as aesthetics and good tastes.

In this way symbolism and color can be used for the most effectual reason, i.e., to stimulate and direct the worshippers' thoughts toward God. Otherwise, the colors become exciting or distracting and a sacred symbol becomes merely another decoration.

The question of color is basically controversial but I believe that as a general thing it is well to stay away from strong, earthy colors in the nave, the chancel and as mural decorations, including windows.

Further, it is well to make all color and pattern in the nave subservient to the richness and beauty of a well appointed sanctuary. The color and decoration of the sanctuary should in its set-apartness so beckon our hearts, our minds and our souls that all else in the church be subordinate thereto.



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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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Seven West Coast churches get design recognition

AMONG the 18 churches cited for architectural excellence by the National Council of Churches in a nationwide competition conducted in 1956 are seven West Coast projects—four in Oregon and three in California.

Limited to churches constructed since 1930, the winners were selected from a total of 72 nominated by 35 architects, educators, editors and clergymen who are members of the council's department of worship and the arts. Except for Eliel Saarien's Christ Evangelical Lutheran Church of Minneapolis, which was named most often by commission members, churches were not listed in order of preference.

Rev. Martin P. Halverson, director of the department of worship and the arts, states that most of the buildings selected were erected since World War II. "This indicates not only the increased amount of church construction but the growing maturity of design," he declares.

Pietro Belluschi, who now heads the School of Architecture and Planning at Massachusetts Institute of Technology, was associated with the four winning churches in Oregon. A great deal of his philosophy on church design is summed up in an article appearing in Church Property Administration for November-December 1949, excerpts from which follow.

"It has become increasingly apparent that even the conservative people are beginning to doubt the wisdom of blindly copying the historical styles and as rising costs have prevented their faithful reproduction, the decadence and lack of vitality of our present ecclesiastical architecture has become more and more apparent.

"But even if copying has led us into spiritual bankruptcy, freeing ourselves from the bonds of historical styles does not mean rejecting all past experience. The thoughtful architect will appraise the spirit which moved other ages, so that he may himself recapture such spirit, not by imitating but by truly understanding it, which means seeing the thousand ties which bind architecture to its own age. These ties of course include among other things — people, labor, costs, materials, etc.; to follow that road is indeed to be in the tradition.

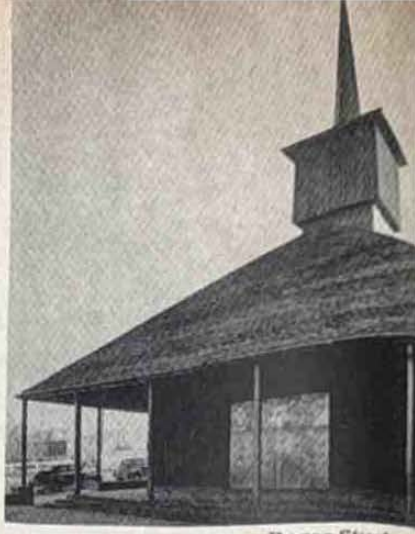
"Then what is to be done about church architecture if we cannot find refuge in a sterile copying of the past? The answer does not rest in the mind of the few of us but in the very fabric of our society. It may be that after the destruction brought about by the next atomic war, our society will be able to resurge and have faith again in the perfectibility of Man as the living image of God. Many individuals have come to understand the predicament of our modern society, many architects have been baffled and impotent in their struggle to become again simple and believing; of these, only a handful have succeeded in recreating the atmosphere in which the religious man, the man who still deeply and humbly believes in God may worship Him in appropriate surroundings.

"In spite of the advantages and satisfaction accruing to the modern religious congregation by its advocacy of social advances, it must be admitted that to many persons the results of this course are the least rewarding in spiritual satisfaction.

". . . The interest which a community shows in its church is dependent on the ability of the few to coax and corral funds from its members on the basis of social pressure; and in this case, the church becomes the poor man's club, and the parish hall kitchen becomes more important than the altar.

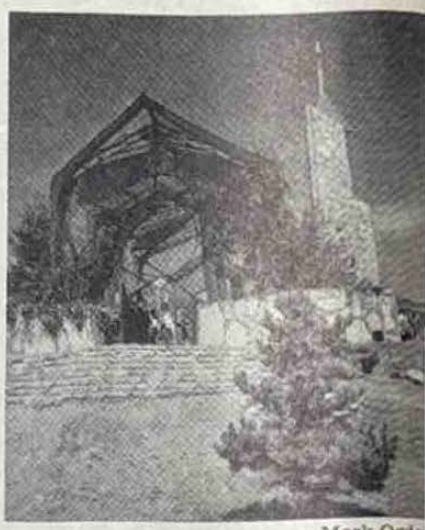
"Then, the number of conflicting denominations has tremendously weakened the church as a divinely mandated institution, and the time and wealth which a community can devote to construct its church could not possibly be compared with the wealth devoted to the same purpose in the middle ages where life revolved around the religious institutions. However, if we cannot erect great monuments, we may endeavor to create small temples, in a more human scale, designed in a sensitive and creative manner so as to produce the kind of atmosphere most conducive to worship. This then is our answer."

Central Lutheran Church, Eugene, Ore., 1954; Pietro Belluschi and Skidmore, Owings & Merrill, architects: designed as a singular rectangular volume. The severe lines of the brick and wood shell are relieved on the interior by the rhythm of the laminated wood arches supporting the roof. Set before a patterned brick wall, the pulpit, altar and font declare the Lutheran concept of the means of grace.



Roger Sturtev

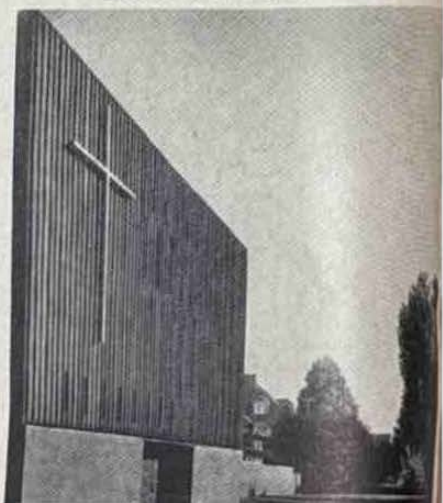
Zion Lutheran Church, Portland, 19
Pierto Belluschi, architect: construct
of brick and glass curtain walls
closing a laminated wood frame.
doors of hammered copper sheeti
the brass altar frontal and chancel cr
and candelabra are set against
simple elements of the structure.



Mark Ogde

Wayfarer's Chapel (Church of the Ne
Jerusalem), Palos Verdes, Calif., 195
Lloyd Wright, architect: relates religio
of life in a clear, positive way an
reaches out to include all things an
all people. Sections of glass set in a
interesting wood frame form the wal
and roof.

Northwest Photographic Illustrator



Central Lutheran Church, Portland, 1952; Pietro Belluschi, architect: expresses both its setting in the Pacific Northwest and the Norwegian Lutheran origin of the congregation. The nave and chancel areas are differentiated through their architectural forms. On the exterior, the brick shell enclosing the altar is balanced by the predominantly wooden rectangular nave; within, the brilliantly lighted chancel contrasts with the dark nave.

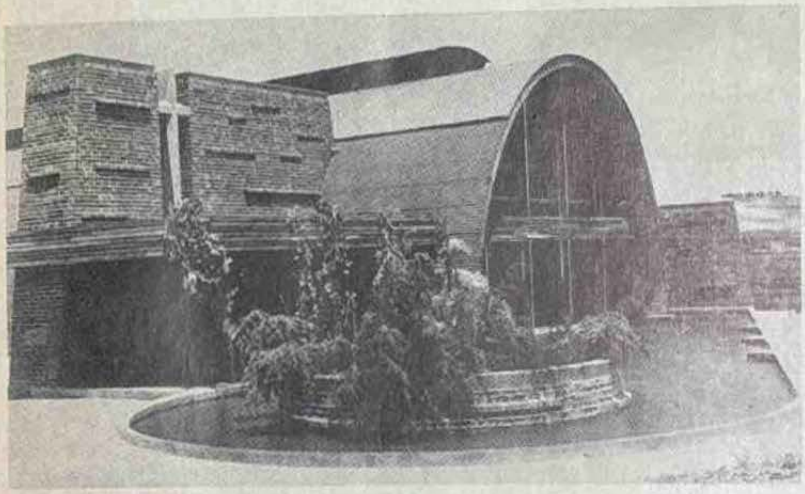


K. E. Richardson

Julius Shulman

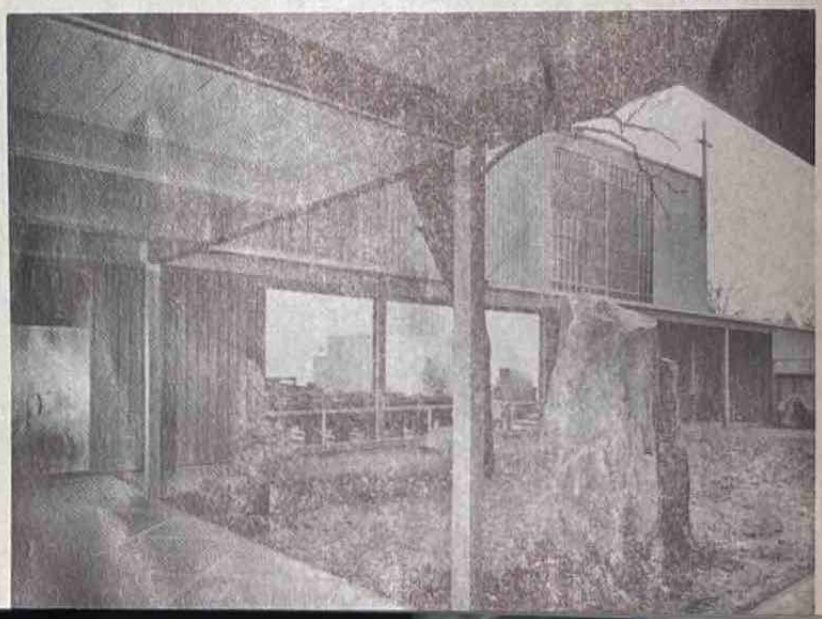


St. Matthew's Episcopal Church, Pacific Palisades, Calif., 1953 (remodeled); A. Quincy Jones and Frederick E. Emmons, architects: designed as a temporary structure to house a relocated congregation, using parts of the old church building. Its significance lies in the transformation of an older building to a new site and to a developing complex of buildings. The steel cross contrasts effectively with the frame structure and the brick retaining walls.

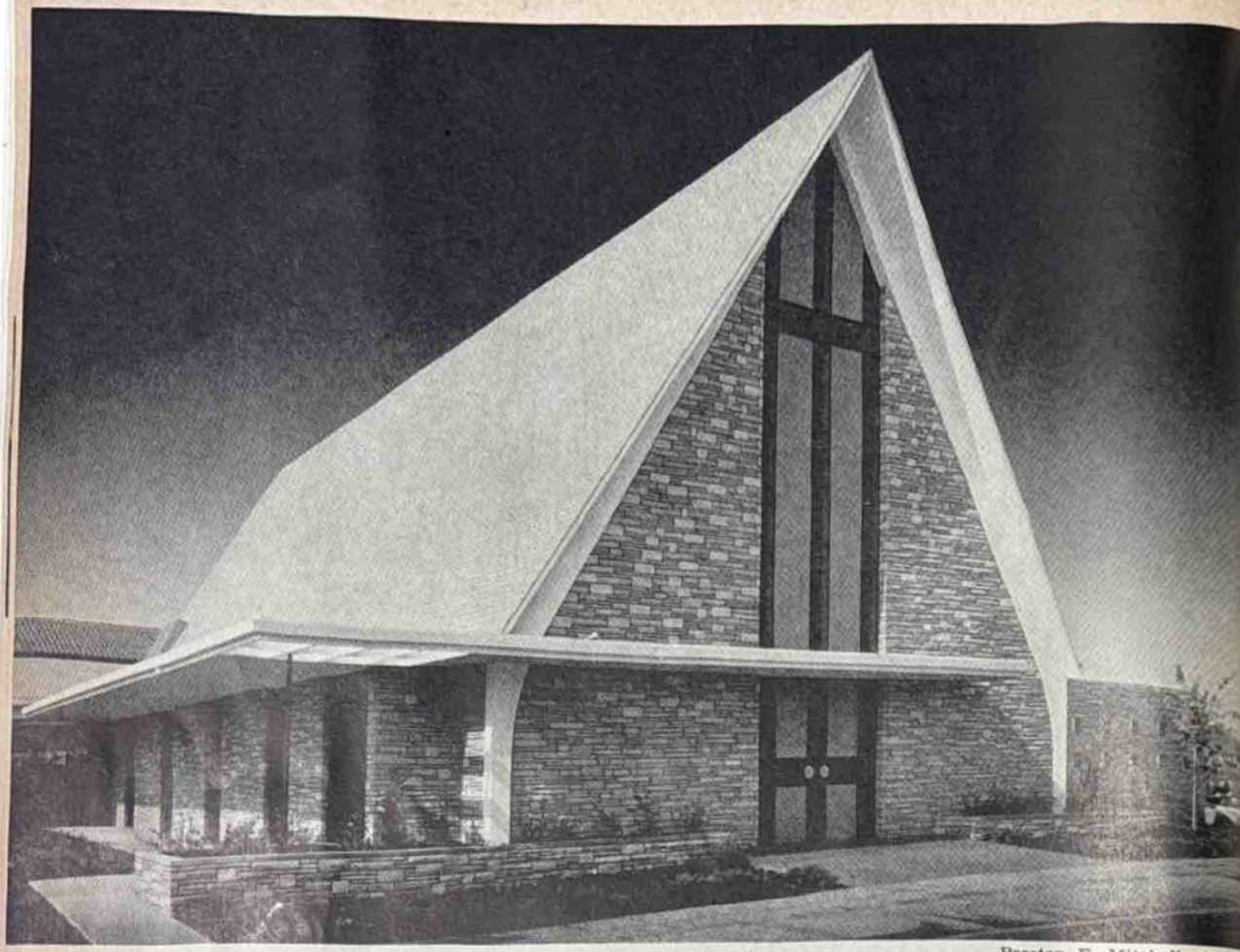


San Lorenzo Community Church, San Lorenzo, Calif., 1941; Bruce Goff, architect: represents an imaginative exercise of architectural skill within the limitations of war-time military construction. Originally built as a chapel for a U. S. Navy Seabee base, using the quonset hut as its basic element, the architect "substituted a ceiling clerestory for the usual, elbow-height ribbon strip." The quonset shape was given new character by the brick forms which define the entrances and planting beds.

Julius Shulman



First Presbyterian Church, Cottage Grove, Ore., 1951; Pietro Belluschi, architect: conveys the idea of purpose rather than richness. Humble materials and simple details give the church an architectural embodiment of the historic traditions and way of worship of the Reformed branch of Protestantism.



Preston E. Mitchell photo

Alhambra (Calif.) Friends Community Church

Church Architectural Guild
of America Citation, 1956

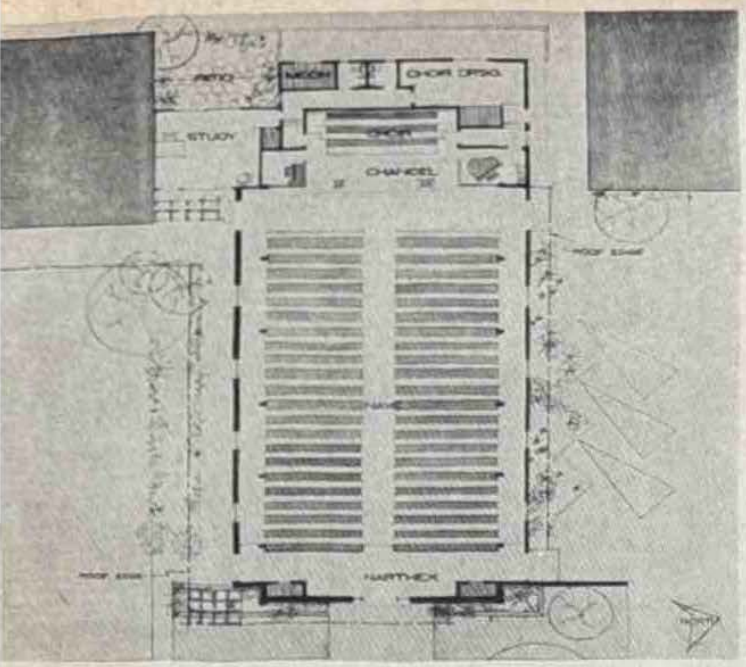
HAROLD B. ZOOK, AIA, Architect

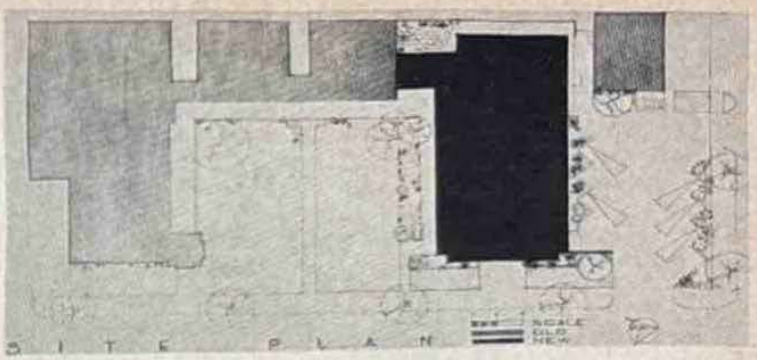
JONES & GLOEGY, General Contractors

AN INCREASED CONGREGATION made the existing sanctuary of the church inadequate to provide a proper place of worship. It was decided to construct a new sanctuary, minister's study, choir dressing rooms and toilets to supplement existing facilities. The old sanctuary was converted into a social hall.

The construction cost of $67,896 (excluding furniture, landscaping and draperies) exceeded the building committee's budget by less than $3,000. For this figure the architect gave the parishioners a church with a seating capacity of 500, including a choir of 36, and 5,726 sq. ft. of usable floor space. The wood frame structure has a masonry veneer exterior with a composition shingle roof to match the existing building. Devoid of frills, the sanctuary is highlighted by laminated arches between 3-in. thick exposed red cedar sheathing and by stained glass windows.

Acoustical plaster and acoustical tile provide sound control. Other sound devices: six earphone plug-ins at pews; an organ speaker and amplifier behind a panel at the rear of the choir; and a microphone at the lectern and pulpit with speakers on the lower section of the trusses.

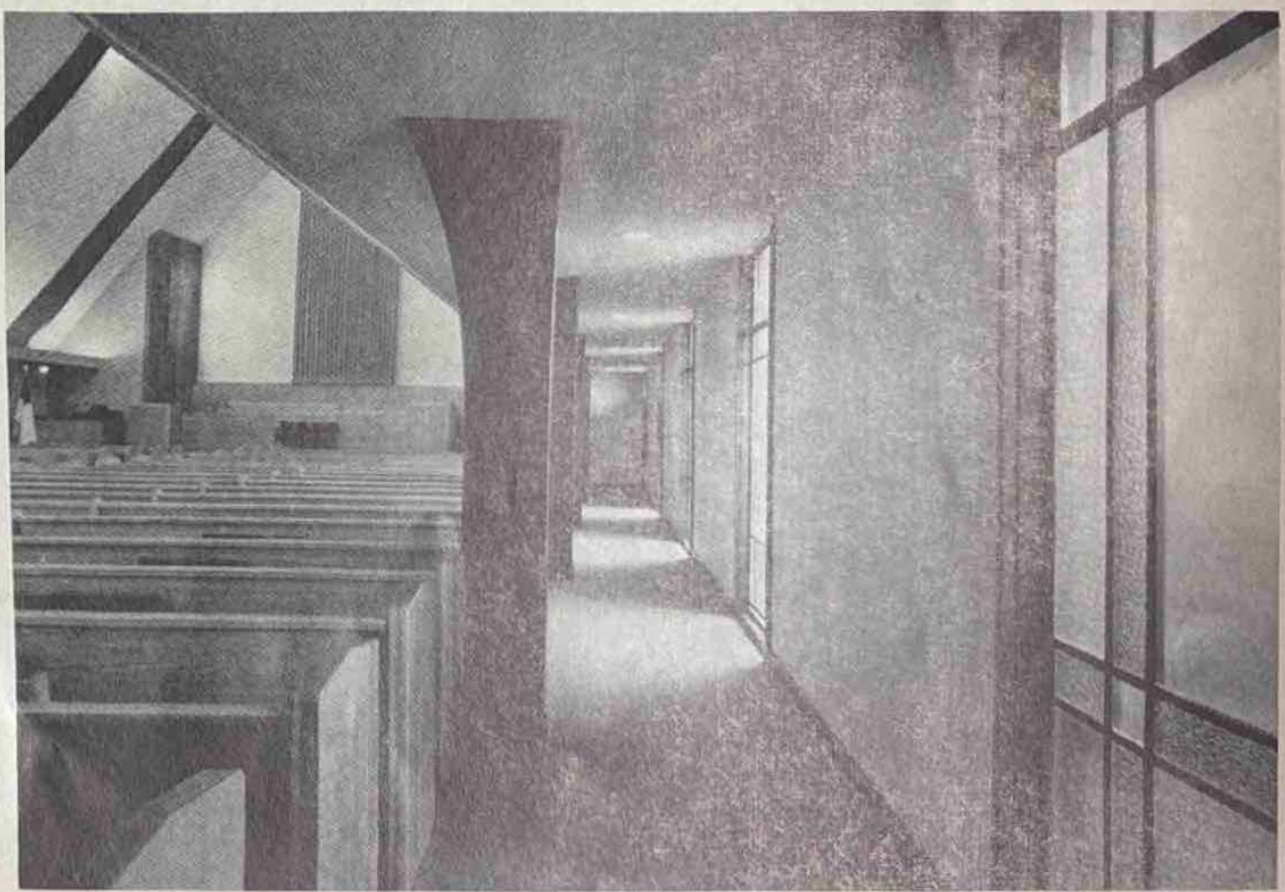




OUTLINE SPECIFICATIONS

Type of Construction: Frame.
Exterior Walls: Precast concrete Slumpstone veneer.
Roof: Composition shingle.
Floors: Cement.
Windows: Stained Glass.
Interior Walls: Acoustical plaster and acoustical tile.
Ceiling: 3-in. thick exposed red cedar sheathing between laminated arches in sanctuary.
Sound: Six earphone plug-ins at pews; organ speaker and amplifier behind panel at rear of choir; microphone at lectern and pulpit with speakers on lower section of trusses.
Lighting: Direct between laminated arches controlled by power-operated dimmer switch; indirect from light trough in sanctuary.
Heating: Radiant through copper tubes embedded in concrete floor; fan exhaust system behind panel at rear of choir.
Air Conditioning: 1-hp. unit in minister's study.
Total Area: 5,952 sq. ft. (including 226 sq. ft. ½-area porches).
Total Cost: $67,896.
Date of Completion: 1955.

LIGHT TROUGH in sanctuary provides indirect illumination; direct lighting behind laminated arches is controlled by power-operated dimmer switch.



St. Gabriel's Church, Chinook, Montana

BECAUSE of the severity of Montana's northwest winds, a plan was evolved so that the church faces the southeast, with a narthex vestibule extending the length of the front of the church and connecting to the rectory and parish hall. The entire plant has been placed at an angle to provide a protective arm for arriving parishioners. The architects intended to exemplify in the unity of the buildings, the unity that should exist in man's life: an interrelation of his home, church and social life.

Windows were omitted behind the altar since this is the focal point of worshippers, in accord with Roman Catholic liturgical requirements. Clerestory windows, glazed in varicolored cathedral glass, were introduced to the left of the sanctuary so that daylight might dramatize the altar. This area is further emphasized by triple crosses of red cedar combined with a statuary bracket shelf.

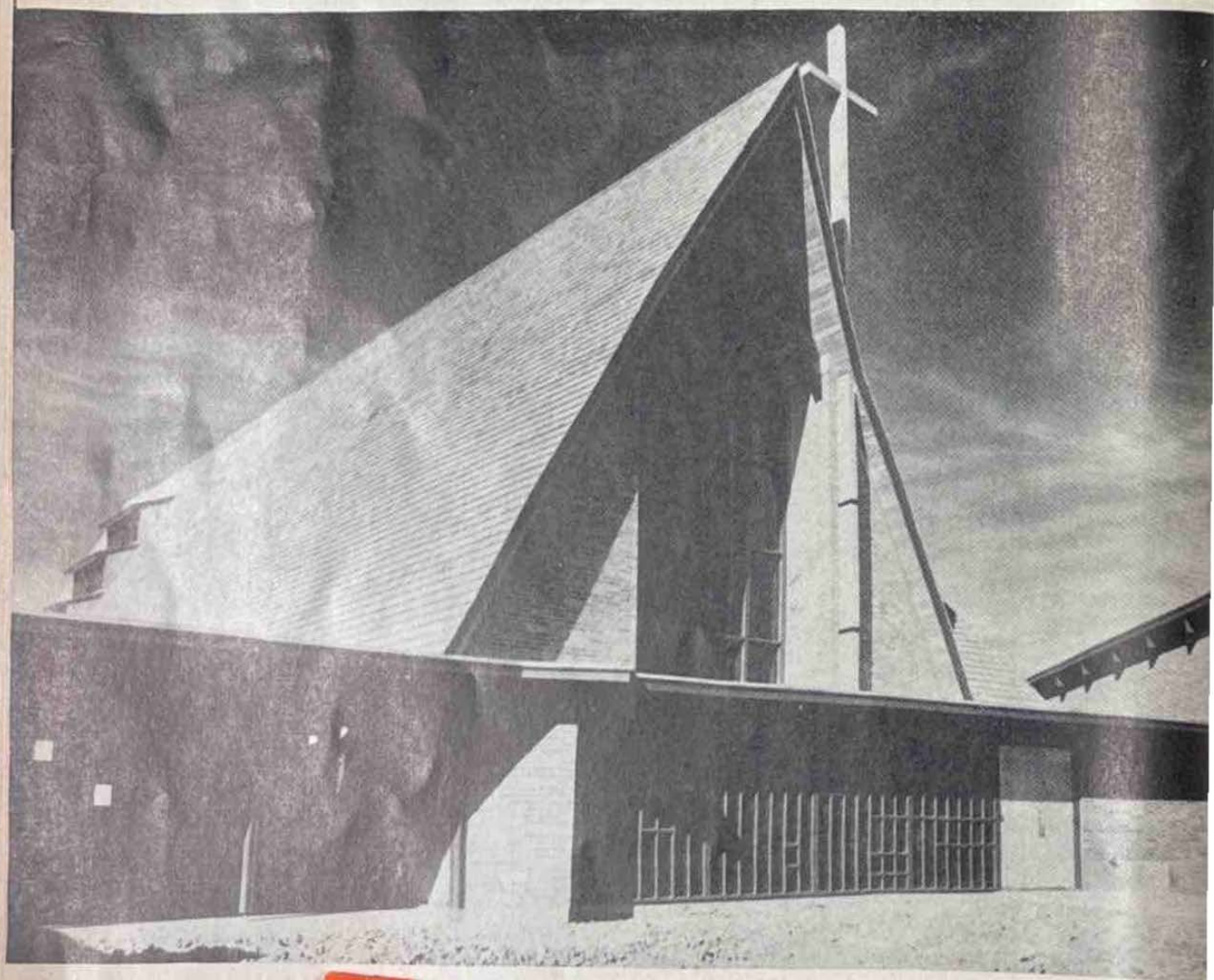
The red cedar is repeated in the driftwood stained bevel siding, while the ambulatory screen is of fir framing members and plywood. Interior side walls are buff brick and each bay is angled slightly for acoustical control. Glue-laminated arches are stained walnut contrast with the unfinished roof deck.

There are no windows along either side aisle. large choir window in the rear and the narthex w both glazed with heat-absorbing glass, provide f candles well above the average, without use of artifi illumination. The narthex wall has crosses worked the fenestration, with accents of ecclesiastical red green.

When weathered, the red cedar exterior siding large cross above the church entrance will harmon naturally with the brown brick exterior, touched off a deep blue-green painted trim. The church proper been shingled with thick-butt red cedar, while the lo pitched roofs are covered with built-up composition an aluminum type coating.

A future parochial school will be added, connect directly to the narthex by means of a corridor runni parallel to the left wall of the parish hall. The narth then, as planned, will make it possible to use all facilit of the plant without the necessity of going out in inc ment weather.

De Mier Studio pho

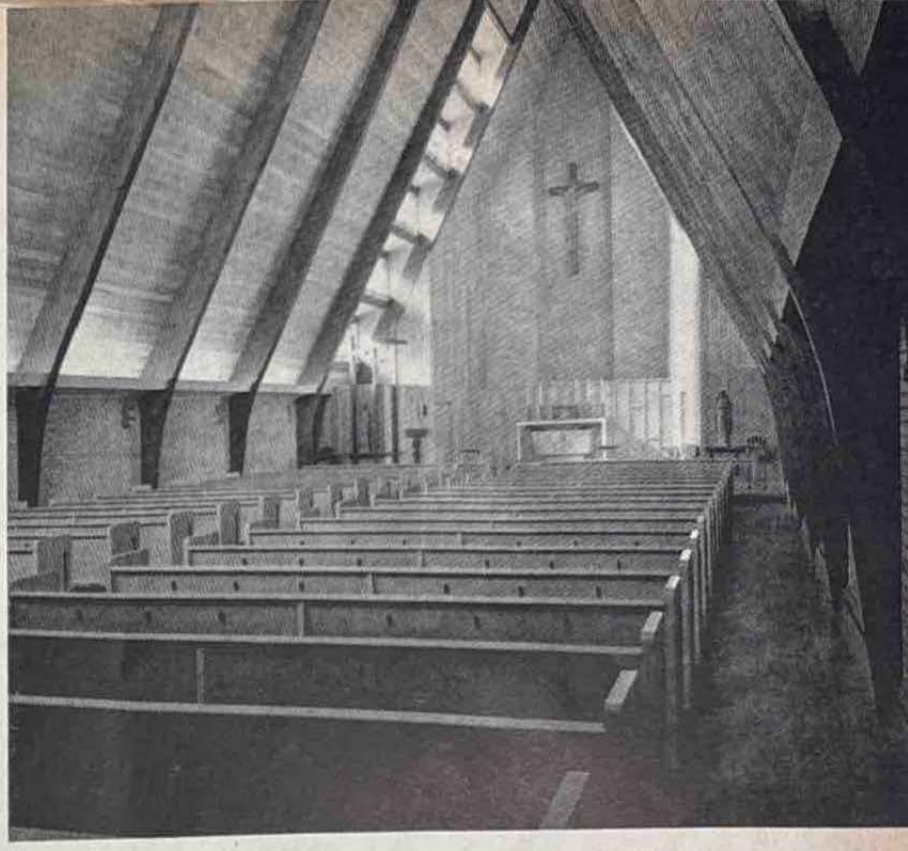


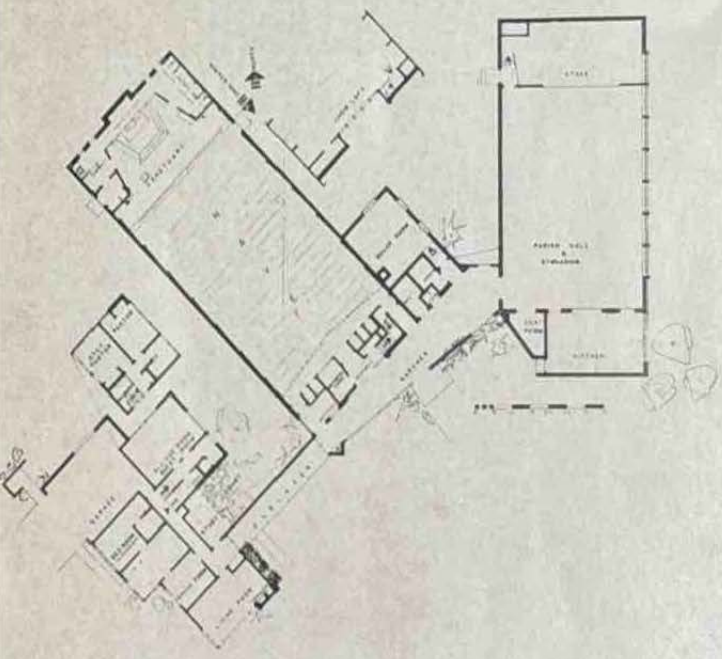
SCRIBED by jury of architects as "powerful its simplicity, with excellent use of ma- ials," church also was cited for lighting of ctuary and well planned ventilation.

Church Property Administration
Magazine First Award, 1956
(for a church seating less than 400)

ORLELEAU-PANNELL & AMUNDSON
rchitects

UGO T. SCHELLIN
eneral Contractor





OUTLINE SPECIFICATIONS

(Church only)

Type of Construction: Frame.

Exterior Walls: Brick, red cedar and heat-absorbing glass.

Roof: Stepped-back dormer type with thick-butt red cedar shingles.

Floor: Concrete slab covered with asphalt tile under pews, vinyl tile in aisles and sanctuary.

Windows: Stopped in wood and steel; clerestory in sanctuary.

Interior Walls: Buff brick and red cedar bevel siding, applied vertically and driftwood stained.

Ceiling: Glue-laminated arches between unfinished roof deck.

Special Equipment: Ambulatory screen of fir framing members and plywood; ventilated and acoustically treated confessionals.

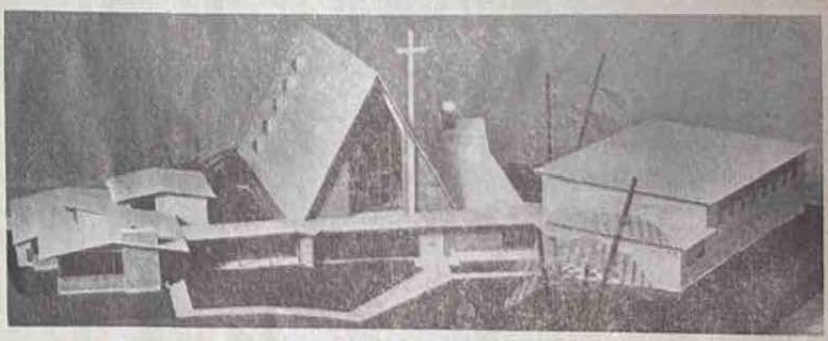
Lighting: Both incandescent and fluorescent fixtures; indirect in wood troffers in nave; spotlight on altar.

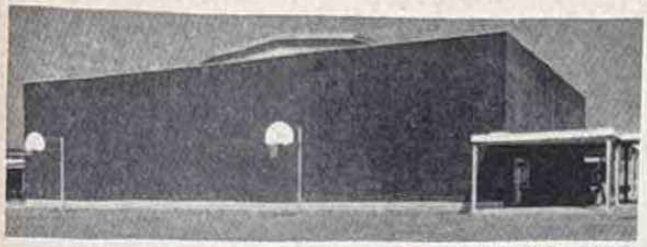
Heating: Combination of fin-tube radiation and warmed fresh air passed under floor through ducts.

Cost per Square Foot: $18.50.

Date of Completion: September 1955.

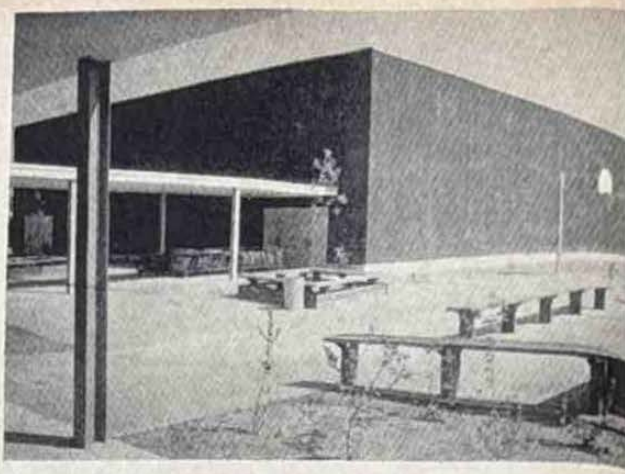
CHURCH OFFICIALS feel soaring lines contribute desirable spiritual quality to both exterior and interior of nave. However, a problem was posed in combining low-pitched roofs of adjacent structures with steep roof of church, particularly true in roofing sanctuary clerestory fenestration. Many schemes, all too heavy, were tried before arrival at stepped-back dormer roofing.

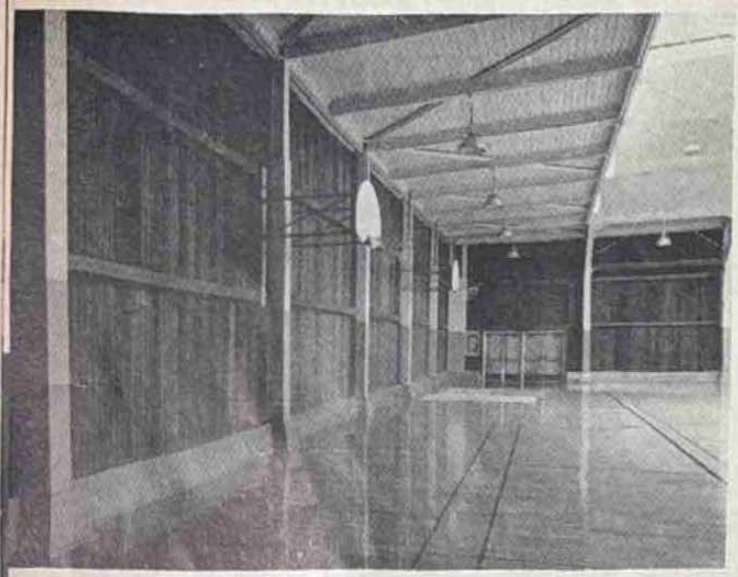


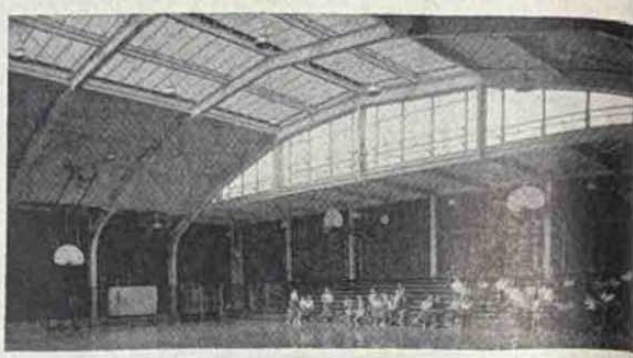


Phil Palmer photos

COVERED BREEZEWAYS connect gymnasium to adjacent locker rooms. Paved outdoor play area is used for eating lunch on warm sunny days.







FIVE STEEL ARCHES support roof which has clear span of 96 ft. Cle story windows open at each end to provide cross ventilation.

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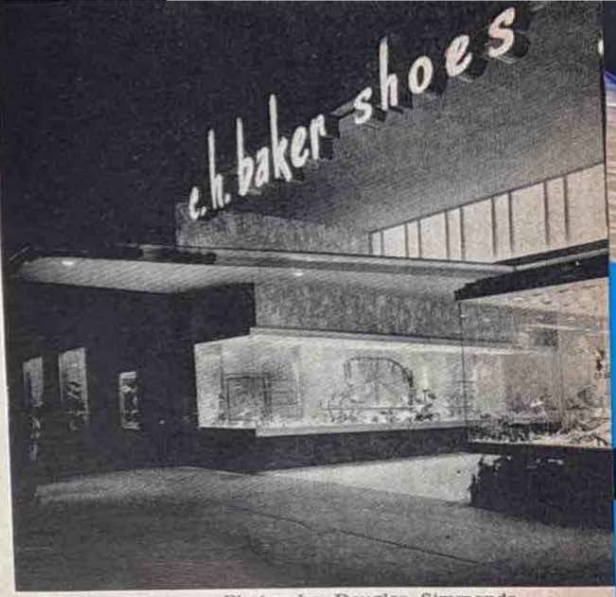
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Type of Construction: Reinforced concrete.
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Ceilings: Acoustical plaster.
Air Conditioning: Refrigerated gas.
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Total Cost: $81,000.



Photos by Douglas Simmonds

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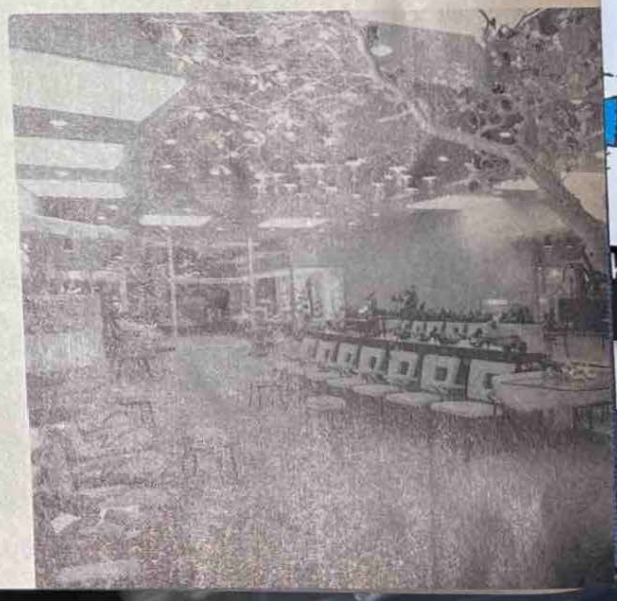
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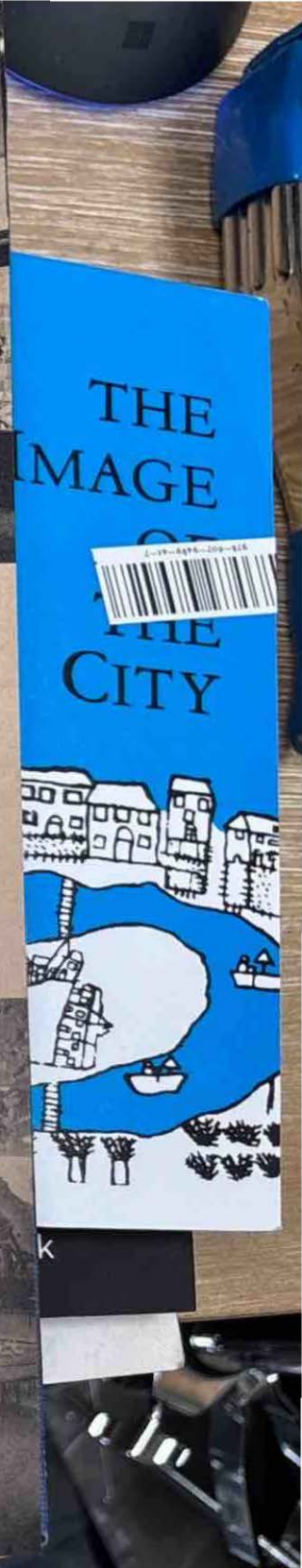
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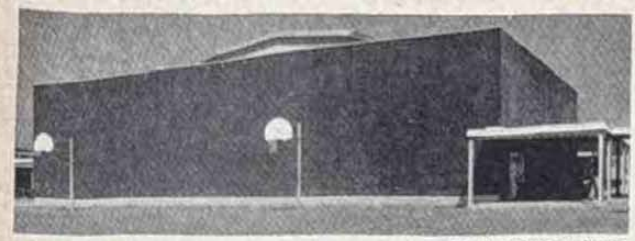
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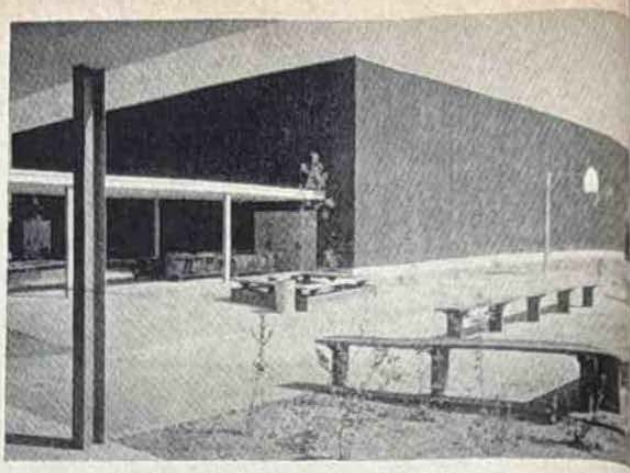


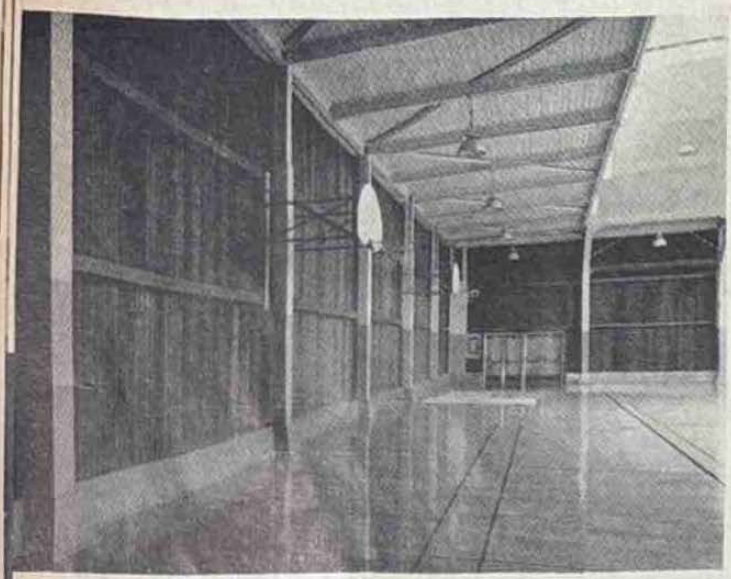


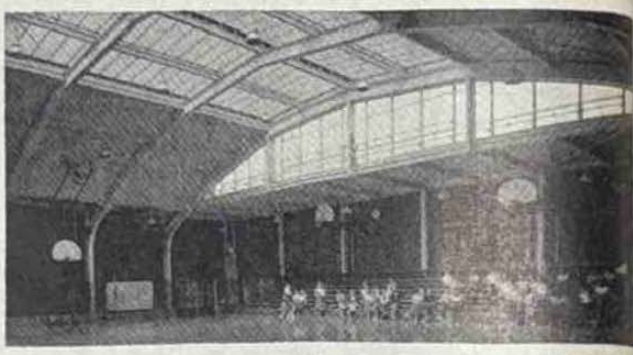


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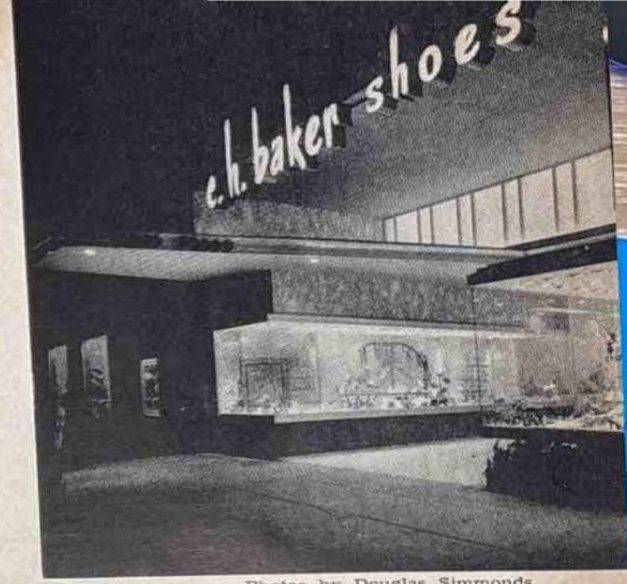
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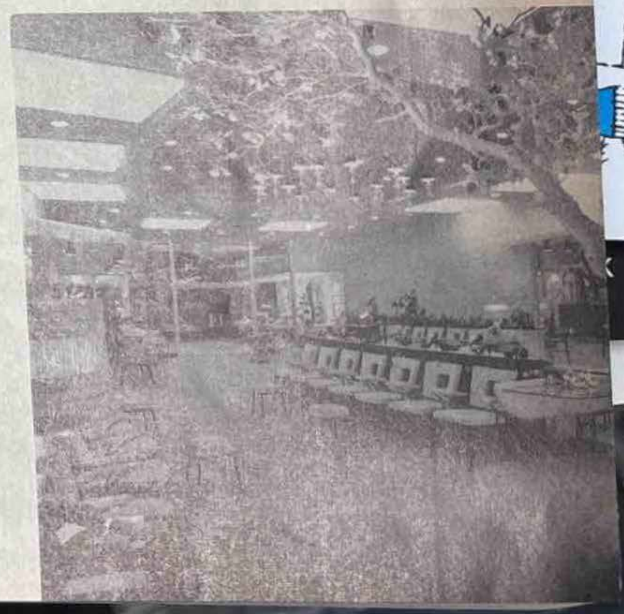
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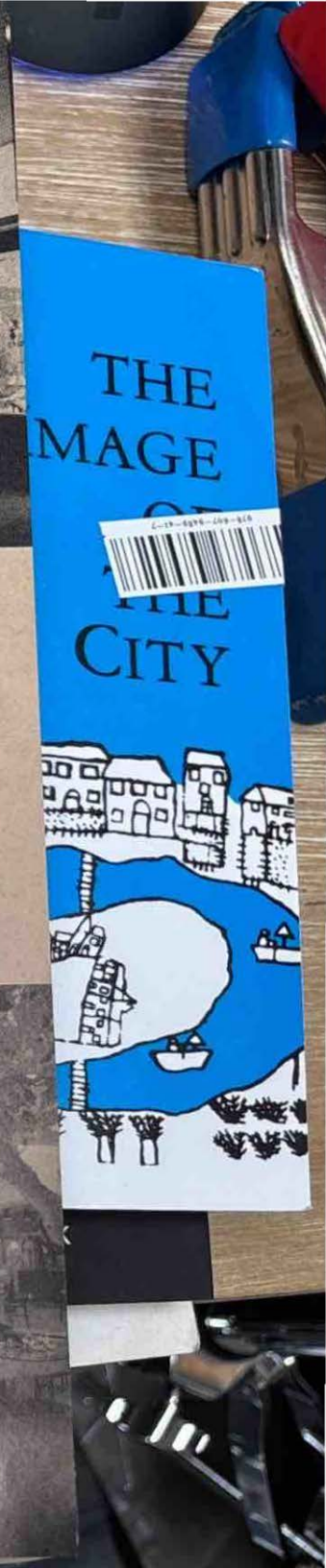
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One way to remove load-bearing pillar



TWO OF FOUR GRILLAGE BEAMS sunk into basement floor to distribute end loads of new 40-ft. girders.

• Portland hotel dining room gets new look

REMOVAL of a 300-ton load-bearing pillar in the basement of Portland's Imperial Hotel has provided a 40-ft. free-span dining room, with structural changes costing about $20,000. The objectionable pillar was in the center of the 40x40-ft. Green Room, making seating arrangements difficult and full utilization of the area impossible.

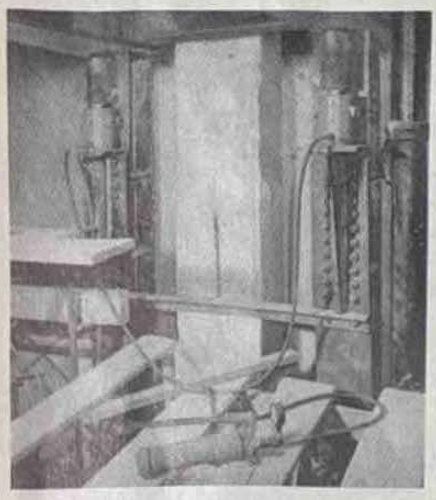
The architects and a consulting engineer determined that it would be necessary to replace the pillar with two 40-ft. long by 4-ft. deep structural steel beams. While these beams were being fabricated, four heavy H-sections, welded up from heavy plate, were placed under the basement floor as a grillage to distribute the weight now relocated to the ends of the 40-ft. beams. Two 12-in. steel columns were installed to support each end of the two beams. Windows in the side of the building were removed so the girders could be brought in from an adjacent street.



EACH OF SIX-TON BEAMS is slid into building directly from flatbed trailers. This was done at 1:30 a.m., since area is very busy during normal hours.

Because the hotel is located in a congested downtown area, it was necessary to move each of the six beams to the building site at 1:30 a.m. The city police cooperated in closing the street to general traffic. The large beams were slid horizontally, directly from the flat trailers into their approximate final position with the help of an auxiliary crane.

Using a system specified by the consulting engineer, two pairs of 100-ton Simplex hydraulic jacks were then placed on steel jacking brackets which had been bolted onto the new vertical support columns. Each pair of jacks was operated by a single pump to assure equal load distribution. After jacking each end of the beams until they were deflected the calculated amount, steel shims were placed between the vertical columns and the bottom of the girders. The connections were completely bolted and jacks and jacking brackets removed.



JACKING BEAMS into final position is accomplished by two pairs of Simplex, 100-ton hydraulic jacks, each pair controlled by one pump to assure equal pressure.



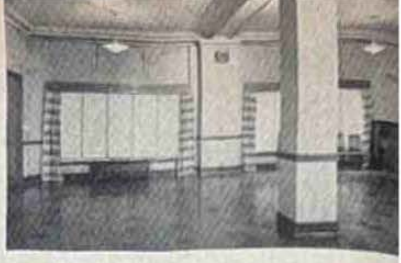
NEW BEAMS are completely installed and old column severed.

After waiting 48 hours for settlement, the old composite steel and concrete pillar was cut loose. Movement of the building was found to be less than 1/32 in. There was a slight upward reaction of the old column following as it was relieved of the load.

Architect for the project was James Coppedge of Acker, Coppedge & Jacobsen, Los Angeles. Structural engineer was Art James of James & Honey, consulting engineers, Portland. Gunderson Bros. Engineering Corp., Portland, fabricated the two 40-ft. beams. General contractor was The J. C. Milne Construction Co., Portland, with Paul G. Bintz, superintendent, in charge of actual construction.



ROOM IS FINISHED with plastic and cork wall coverings and suspended ceiling of acoustical plaster.



DINING ROOM, located in basement of Imperial Hotel, before remodeling. Composite steel and concrete pillar in center supported 300-ton load.

Can we save our downtown areas?

A letter to Los Angeles city officials from Adrian Wilson, AIA

ASKING the question "Can we save our downtown areas?" implies some doubt that it can be done. The dynamic expansion of our country, and particularly the southern California region, during the past 15 years makes it imperative that we **do** "save" our downtown areas. It is so imperative to the future of our economy that we can no longer think in terms of possible failure to succeed.

In consideration of saving our urban centers, however, it is also important that city planners, civic leaders and finincial institutions view the problem in its proper perspective. No longer can we think of saving an urban area simply as a job of rehabilitation, of face lifting, or of making the city more beautiful. These are important portions of the large picture, but in themselves and by themselves they serve only to prolong the agonizing demise of the the city.

We are now well in the third quarter of the 20th century, and it should seem obvious that the city, as we have grown up with it, must change its physical facilities in order to meet the competition from its suburban satellites. To do this, the city must engage in wholesale soul-searching. It must study its needs with all the scientific tools now at its command; it must become accustomed to the fact that half-measures will not solve its problems.

The fact that many American cities have viewed the post-war exodus to suburbia with fear only serves to indicate that they have not met the challenge with a **plan.** In the swift-moving economy of mid-century America, a large corporation cannot survive without forecasting the trends of its markets and meeting the challenges head-on with aggressive planning and action.

The city of mid-century America is faced with exactly the same challenge of the corporation: the city must retool, it must build a new plant that meets and surpasses the competition and it must leave room in its forecasting and planning to make even further drastic changes in the future.

Our cities must be redesigned, reshaped and reorganized in bold, sweeping steps by civic leaders of vision. With our present competence in the field of research, we can use scientific methods to accurately determine the necessary new shape of our future cities—in combination with the aesthetic techniques traditionally employed. We cannot eliminate the artistic in creating our new city, but the needs of the new city are such that the scientific method is an urgent ally.

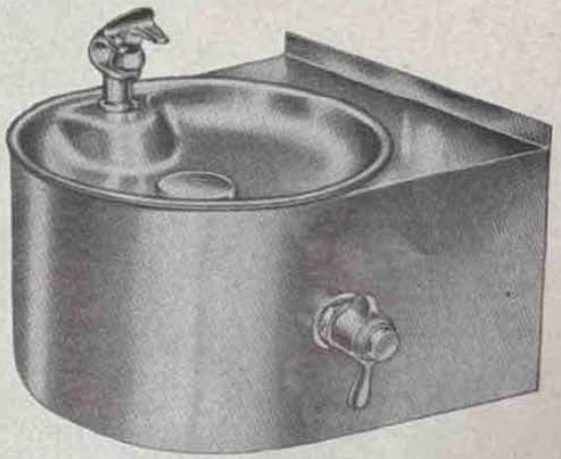
In Los Angeles, probably the most notable example of the dispersal of populations (and the consequent building of satellite business centers), we have what I believe is the most exciting opportunity to develop a vital and vibrant new downtown business and cultural center. Because of the vastness of the suburban development in southern California, the city of Los Angeles can, with foresight and vision, reorganize itself into providing services and goods which will become an attraction to the huge surrounding population.

The pattern of those services and goods may have to be altered, but such alteration is natural in the retooling process. Organized planning is the only way this can be accomplished. It can be done and successfully.

by HAWS

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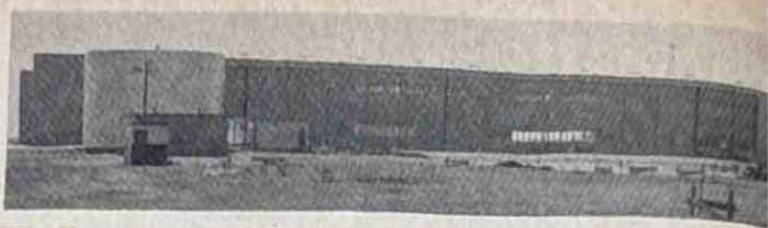
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STEEL FRAME is erected (l.) for double-cantilever hangar at Castle AFB, capabl housing five B-36s at one time.

Air Force makes building news in California

Double-cantilever hangars are match for bombers they hous

FACED with the expansion of its long-range bomber operations to maintain air superiority, the U. S. Air Force has discovered one of its most urgent needs is to provide adequate space for the giant aircraft's upkeep and repair. There are other requirements too, such as storage and office space.

Designers and members of the engineering division of the Air Force Installation Representative, South Pacific Region, with headquarters in San Francisco, have teamed up with the Corps of Engineers, South Pacific Division, to create a new type of hangar.

Known as the double-cantilever type and costing from $2-4 million to build, these new hangars are now going up throughout the Southwest, with several being built in California.

Castle AFB at Merced, Travis AFB at Fairfield, Mather AFB at Sacramento and March AFB at Riverside each have one. Future plans include the double-cantilever hangar at Edwards AFB near Muroc Dry Lake and another at George AFB at Victorville.

The hangars are the equivalent of from three to six stories in height, with shop areas on both ground and upper floors to provide space for armament, parachute, electronics and hydraulics shops, tool rooms, classrooms, washrooms and other facilities.

Hangar doors, reaching up the full height of the structure, provide as much as 64 ft. or 6½ stories of clearance for the aircraft to enter or leave the hangar.

A major design requirement is that the interior have as few obstructions as possible, with an absolute maximum of clear, usable work space, dictating development of the cantilever type roof construction with no supports along the outer walls.

The frame consists essentially of a pair of longitudinal trusses supported on columns at their ends. Perpendicular to the longitudinal trusses are the cantilevered roof trusses, which project in some instances as much as 93 ft. from their supports.

"Many different combinations of framing were studied," explains Col. Edwin M. Eads, the Air Force Installation Representative who was responsible for providing design criteria and supervising completion of the projects.

"During the planning period," Col. Eads continues, "we found that the double-cantilever design, utilizing steel for the structural frame, would not only be the most functional but also the most economical.

"When the general conformation and arrangement of the trusses had been decided on," Col. Eads points out, "the advisability of using continuous trusses for the longitudinal members was then studied.

"The character of the soil at most of the Air Force bases where this type of construction was being considered made it probable that we would face some settlement which would be unequal. This led to our choice of sim trusses for the main members."

This choice proved particularly plicable at Travis where a spec soil problem was encountered. T soil in this area consists of an alluvial deposit made up principa of alluvial silt and black clay adobe. A total of 20 test borings w made over the area by the contract Zoss Co. of Portland and Hollywo

The results of these test borin and four bearing tests conducted the approximate elevation of the b tom of the footings disclosed soil co ditions which varied greatly in distance of 100 to 200 ft.

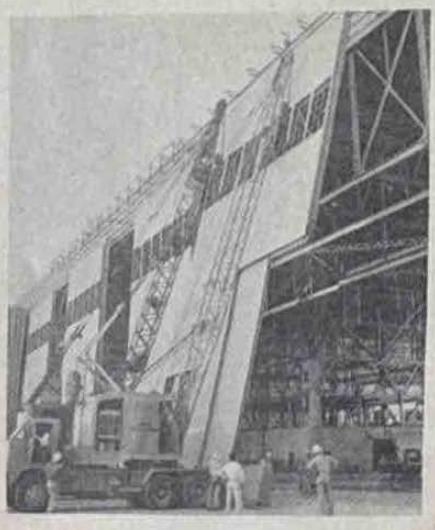
One end of the hangar and a par ing apron at that end were built sandstone. However, at the other e the engineers had to excavate throu the alluvial deposit. The depth of t excavations varied, but at one of t corner foundations it was necessa to excavate to a depth of 8 ft.

A study of comparative costs the use of piling led to the choice simple reinforced concrete found tion slabs. The main foundations a 22x22 ft. and the smaller footings a 14x14 ft.

The floor slab was poured befo the steel was erected, thus simplif ing the problem of supporting t falsework for erection. The falsewo was simply skidded from place place as needed.

The floor, which is 14 in. of concre in the main hangar and 16 in. dee at the hangar aprons, was poured a checkerboard fashion. The parkin aprons were poured in lanes exten ing perpendicularly out from t hangar and running down a slig slope to provide the maximum drainage.

Twenty-foot lanes were poured one time, using regular runway co struction equipment to do the job. total of 2,500 tons of asphalt su facing and 16,000 c. y. of concret



MOBILE CRANES lift big door panels, each 6½ stories high, into place. When doors open, each panel rolls back into pocket along side wall.

pavement went in around the hangar.

Erection of the hangar started on one side and progressed toward the opposite. After the office and shop section was completed, the first two main columns were set in place and erection of the main trusses began.

The main trusses were shop assembled before shipment and final assembly was completed in place in the field.

First the trusses were erected complete and then they were riveted, starting from one end and working toward the other.

After the first pair of main trusses were completely riveted, except for the bottom chord connections, erection of the cantilever trusses began, again proceeding from one end of the hangar toward the opposite end.

The transverse roof trusses were connected across the main truss to increase stability and provide sway bracing. Each transverse truss was located at the panel point of the main trusses.

At each pair of columns at the ends of the main trusses, the portal or basic sway bracing was installed, designed to take the total wind load on the building. The arches are 100 ft. across, with steel column supports.

The cantilever trusses, as received on the jobsite, weighed 35 tons and were hoised 65 ft. 10½ in. into the air by Moore Dry Dock Co. of Oakland, using three 20-ton cranes to lift the huge cantilever trusses into place.

The supporting columns are spaced so their existence will least interfere with the maneuverability inside the hangar of the aircraft. These supporting columns are, for the most part, near the center of the hangar.

Detailing of the columns and trusses followed standard practice for bridge construction.

The doors, which occupy the full length of the hangar on two sides, are the rolling type, running on railroad tracks cast in the floor and supported on guide rails installed in the top of the hangar.

There are 12 door panels or leaves on each side of the hangar, six on each side of the openings. When the doors open, the leaves roll back into a pocket along the side wall.

The leaves are 30 and 35 ft. wide and 64 ft. high. Each door is operated by an individual motor and is controlled by push buttons at the ends of the hangar.

The three mobile cranes used on the job were capable of picking up one of the leaves and "duck-walking" it to the side of the hangar and setting it in place. It required only 2½ days to install the huge doors at Travis.

The entire hangar, including roof, sides, ends and doors, is of a corrugated metal, insulated with asbestos and the overall size of the building is 270x350 ft. with a height of 66 ft.



SIDING is installed on huge hangar of corrugated metal insulated with asbestos.

To protect the $2,500,000 hangar and the $6-8 million worth of aircraft which it houses against fire, a $200,000 deluge system was installed, with a 750,000-gal. reservoir and four pumps with a capacity of 2,500 gpm.

The water can be dispersed through sprinklers installed in the hangar ceiling.

The double-cantilever hangar at Castle AFB is the largest such hangar in California, capable of housing and providing maintenance for five huge B-36 bombers. The enormity of this hangar can be visualized if one realizes that it requires nearly one acre to simply park a B-36.

Built-in telephone outlets are a big selling point in today's home

says H. J. HARLOW, Jr., Harlow Construction Company, Sacramento, California



Homes built by the Harlow Construction Company have telephone outlets located for maximum convenience—in rooms where the family spends a lot of time. Concealed telephone wiring is another feature that adds to the livability and value of Harlow homes.

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Pacific Telephone

The role of the structural engineer

'Partnership between the architect and structural engineer can look forward to an even more amazing era of design concept than has ever been known'

by ELMER E. GUNNETTE and S. CHARLES DEARSTYNE

NINETY PER CENT of man's life on earth was spent in the Stone Age. The structural sciences are roughly about 2,500 years old. In this early period the structural designer, researcher and builder were combined in one person whom most historians refer to as an "artesan."

"The artesans of this period," writes one historian, "knew the characteristics of a given material from long personal experience with that material. He was a builder as well as a designer. By his training, by his eye and by his personal knowledge of materials he provided structural adequacy yet knew little or nothing of stresses or strains."

Most of the engineering and architectural sciences can be traced back to this same artesan, but down through the years each science has become so highly skilled that today we tend toward the technological specialist. Socially the world leans toward elimination of the skilled artesan, the builder with a mind and soul of his own and pride of accomplishment.

Today's creators of structures are well in the lead of this trend; each specialist in turn making analyses, designs, details, not only of form but of the exact mixtures of the materials themselves; each specialist so engrossed in his own part of the design or construction that he knows little of the duties of his brother specialists.

Who is the structural engineer? What is his function? And what is his future?

It is the duty of the structural engineer to provide designs for an economical yet adequate structure of natural, man-made or man-altered materials to resist the forces of nature and the tendency of materials to disintegrate. The structural engineer is, frequently with an architect, the converter of knowledge, experience and conceptions into structural realities. He depends upon the structural researcher for the development of the theory of behavior of forces and materials as well as procedures. Together this interdependent team of structural researcher and structural designer practice the science of structural engineering.

After them the long chain of the construction industry takes over and those who perform the physical construction convert the results of theory, knowledge and design into actual structures.

In addition to the team of technologist and designer, the structural engineer often works in partnership with an architect. In such cases the architect is the basic planner, presenting to an engineer a succession of structural problems to fulfill effectively and economically the owner's requirements for function and esthetics.

This partnership probably began about eight or nine generations ago when elastic theory was presented as the third era of design principle. Earlier than that through the ancient and first, era of post and beam construction the artesan represented both sciences. The representation probably continued through the second era of design principle, that of the arch and buttress. As stress analyses developed, the myraid choise of design conceptions and materials became so complex that the sciences gradually became specialized.

Even with specialization, however, the successful practitioner in either science recognizes the oneness of purpose that existed when both functions were performed by an individual.

This partnership between the architect and structural engineer can look forward to an even more amazing era of design concept than has previously been known. This new concept, ultimate limit design or plastic analysis, has reached an advanced state of research and has been reported on in some detail to date. In the not too distant future manuals for this design principle will be in the hands of structural engineers, and structural design will enter the fourth great era of structural accomplishment. Ultimate limit design will add to the abilities of the structural engineer to accomplish such rational designs of structures that by elastic analyses are too rigorous and laborious to calculate. It offers some promise of economics in use of materials. It will recognize a built-in safety factor for such natural catastrophic overloads as earthquake or hurricane or for such unnatural overloads as bomb blasts or explosion.

This will be the next step resulting from the inventiveness of the structural scientist who for 2,500 years has strained to keep pace with the yielding of nature's secrets of new materials and of man's adaption and processing of these materials to provide better, safer and more economical structures for the use of man.

Reprinted from Puget Sound Engineering for July 1956.

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No. 74 GR-UN

How one man builds architectural models

ARCHITECTURAL model building techniques are about as varied as there are model builders.

This is how Norris Hookland, research and development specialist for Tedrick Brothers Manufacturing Co. of Kent, Wash., goes about it.

First, he prepares drawings to the exact scale he intends to use. Then comes a considerable period of study during which he decides on materials, how to achieve certain effects and whether the model must be built in more than one section.

Thus the building begins. Hookland uses ¾-in. plywood as a base, cutting it to the exact size of the desired ground area. A contour map prepared during the drawing stage serves as his guide for establishing ground levels. Hookland uses wooden ribbing which he cuts on a scroll saw to give him heights and depressions. These ribs are fastened prependicularly to the base and as many of them are used as are necessary to reproduce the characteristics of the land. Over this framework he tacks copper window screening which is given a coat of plaster of paris. The shape of the wooden ribbing, then, controls the "roll" of the screening, which in turn forms the contours of the land.

Before this land mass is completed, however, the building foundation is constructed into it. This again is a piece of plywood cut to the size of the building surface and mounted into the ground elevations. From this flooring the walls of the building will rise.

Hookland prefers to use Plexiglas for walls of his models. Application of a solvent (ethylene dichloride) will fuse two pieces of Plexiglas together smoothly and firmly, thus eliminating the need for glue, clamps, etc.

Another reason he prefers Plexiglas is that he can paint siding, shakes, stone or other surfaces on it to form the wall, while windows are produced simply by allowing the unpainted plastic to show through. To give windows a grayed or mirrored effect instead of the unrealistic clear, transparent look, Hookland has developed a thin gray paint which he sprays ever so lightly on the inside of the Plexiglas.

Roofing also has its special problems. Shakes, shingles, tile, etc., must be scored into Plexiglas or painted on.

With the basic parts of a building completed, the accessories **really** call for ingenuity. Fine copper wire becomes ornamental railing; crinkled cellophane under Plexiglas makes a fine fish pool; thin wire and aluminum-painted thread end up as a television antenna.

For lawns Hookland gives the plaster of paris base a coat of clear shellac to seal it off before attempting to apply a grass effect. After the lawn is in, shrubbery, plants, rockeries and other fixtures are added. Sponge is one of the best items for "growing" trees, bushes and hedges.

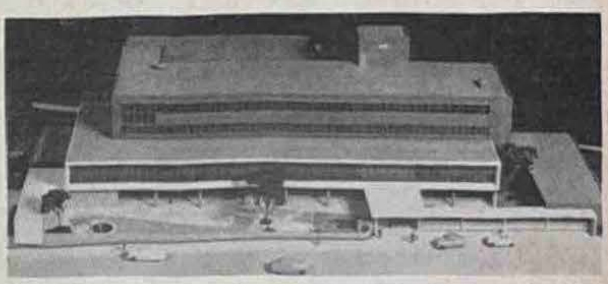
Actual weeds and grasses provide materials for landscaping, too. In the fall, Hookland and his family gather pods, stems, leaves and other dried vegetation which will later serve as miniature trees and nursery stock.

When Hookland landscapes his models, he carries his work to such fine details as worn spots under miniature swings and teeter-totter where children normally drag their feet.

To add further life to a model, figures of people and automobiles are often included. Nothing offends Hookland's sense of scale more than the model builder who produces an otherwise acceptable replica only to spoil it by scattering out-of-proportion cars and people around.



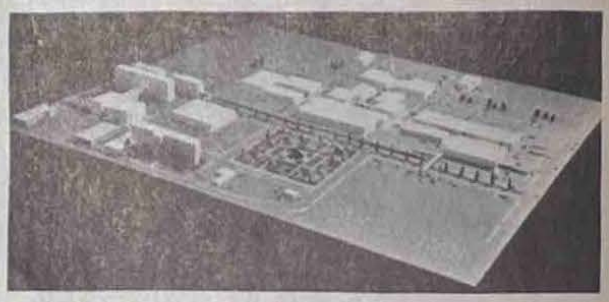
CHILDREN'S OROTHOPEDIC HOSPITAL, SEATTLE: Young & Richardson, Carleton & Detlie, architects-engineers. Model used up some 600 hours of builder's time. It took him 25 hours on circular pool seen in background. Patio floors are all hand-scored plastic while brickwork utilizes $\frac{1}{16}$-in. mahogany plywood for graining effect. All pieces had to be fastened securely to model so that it could be turned on end to get it through doors.



WASHINGTON STATE UNION BUILDING, PULLMAN: John W. Maloney, AIA, architect; Philip E. Keene, AIA, college architect. Replica required 500 hours of Hookland's time. Patio flagstones were individually painted. Lily ponds feature miniature goldfish and lily pads. Simulated flowing fountain was made by heating and drawing out plastic rod. Other side of building has even more landscaping, individually carved steps, railings and additional window work to that shown. Model builder uses special gray paint to coat inside of windows so they have more natural reflection rather than transparent look.



GETHSEMANE LUTHERAN CHURCH, SEATTLE: J. Emil Anderson, AIA, architect. Walls were all scored with sharp tool to simulate bricks. All crosses in tower were individually cut while stained glass windows were made of colored plastic. Railings and fence work were made of soldered bits of copper wire. Cars and people are in exact scale. Hookland spent 200 man-hours on project.



LLOYD CORP. RETAIL CENTER, PORTLAND: John Graham & Co., architects-engineers. Block style type is not so intricate or detailing but helps immeasurably in planning landscaping and indicating parking availability. Hookland made 150 exact-scale autos and trucks out of plaster of paris for model.

T-square talk

about architects • planners • engineers

NEW PARTNERS: Albert M. Dreyfuss, AIA, and Leonard D. Blackford of Sacramento have formed a partnership under the name of Dreyfuss & Blackford, architects and planners, at 2127 J St. Dreyfuss is a graduate of the University of Illinois, Blackford of the University of California.

In Seattle John Stewart Detlie, AIA, and Raymond H. Peck, AIA, have formed the firm of Detlie & Peck for the general practice of architecture in the Securities Building (MUtual 6985). Detlie had been a member of the firm of Young, Richardson, Carleton & Detlie before opening his own office in the Republic Building several months ago. Peck has practiced at 332 Second Ave. W. and was associated with John C. O'Brien on a number of projects.

NEW ASSOCIATE: Richard Bouillon, who joined the staff of Decker, Christenson & Kitchin, architects-engineers, in 1955, has become an associate member of the Seattle firm. After graduating from the University of Washington in 1952, he was employed by various Seattle architects.

NEW OFFICE: Robert J. Platt, AIA, has opened an architectural office at 1870 Rosecrans St., San Diego, where he is associated with Arthur Matsuura. The two men had worked together in Minneapolis several years ago. Since coming to San Diego 3½ years ago, Platt has been with the office of Frank L. Hope.

DIED: A long-time Tacoma architect, Earl N. Dugan, 79, died December 22 in Seattle where he had lived since his retirement five years ago. A member of the old firm of Sutton, Whitney & Dugan, he designed many of the College of Puget Sound buildings, the First Presbyterian Church, Annie Wright Seminary, the Rust Building and the YWCA, all in Tacoma.

Dugan was a native of Boone County, Iowa, and went to Tacoma soon after his graduation from the University of Illinois in 1906. He was a founder of the Tacoma Society of Architects which grew into the Southwest Washington chapter of the AIA.

JOIN FIRM: August R. Butler has been named director of engineering of Pereira & Luckman, architect-engineers, and Fred E. Wagner has affiliated with the planning department. Prior to coming to Los Angeles, Butler was director of engineering for the $350 million U.S. air and naval bases in Spain. Wagner has been a city planner in the San Diego area where he master-planned the major and secondary street system, drew up an industrial development plan and submitted a new zoning ordinance.

ON NATIONAL COMMITTEE: Representing the West on a new committee on professional service are Irving G. Smith, FAIA, Portland, and Clarence J. Paderewski, San Diego. They were appointed by the executive committee of the National Council of Architectural Registration Boards and are charged to "investigate the limits of the service normally rendered by architects for their clients, rather than ethics; and also to what extent the professions of architecture, engineering, landscaping and interior decorators overlap." Smith and Paderewski head their respective state boards of architect examiners.

ENGINEER HONORED: Portland engineer J. Donald Kroeker has been named a fellow of the American Society of Heating and Air Conditioning Engineers in the organization's initial election. Of the five engineers so honored, Kroeker is the only one west of the Mississippi River. The fellowship ceremony will take place at the group's national meeting in Chicago in February.

The owner of J. Donald Kroeker & Associates has maintained a consulting engineering practice since 1936, except for World War II service as a lieutenant colonel in the Army Corps of Engineers. He is design the two largest U.S. installations reverse cycle refrigeration.

STUDENTS ELECT: Paul R. California State Polytechnic Col is representing the western regio the National Association of Stud of Architecture. Thymio Papayann Massachusetts Institute of Techno heads the group.

The election took place during second annual Student Forum ducted by the AIA in Washing D.C., in November. One hundred dents attended the three-day meet with all of the country's 63 school architecture represented. The g maintains year-round activities.

CAA MOVES OFFICES, PICKS MEETING DATES

The California Council of Architects, a state organization of the AIA with headquarters in San Francisco, has moved its offices from 26 O'Farrell St. to Room 550, 703 Market St. The telephone remains the same: YUkon 6-5347.

The CCA and the institute's California-Nevada-Hawaii district will hold their mid-year meetings simultaneously at Coronado February 15-16 when a regional director will be named to succeed Donald Beach Kirby of San Francisco. The two groups have scheduled their fall meetings at the same place October 2-6.

Commercial structures and the architect

An address presented before the So ern California chapter, AIA

by VICTOR GRUEN, AIA

THERE WAS a time when c mercial structures were regarded lying outside the sphere of ar tectural interest but the archite point of view toward them changed radically. This is a lu thing because, in our business ciety, the commercial structure p vides the largest field of activity.

What is a commercial structu In the widest sense of the word is one which either serves the p ducing, buying or selling of goods which is erected with the purpose constituting a merchandising item self, being built for the specific p pose of leasing or selling space.

Within this category, on this br basis, fall obviously stores and pla and warehouses but also office bui ings, banks, insurance buildi apartment houses, hotels, movie th ters and other theaters; and, final to the class of commercial buildi belongs that most merchandised of architectural products — the tr house.

Outside of the classification ma age to stay only a few building typ the single private home, educatio buildings, religious buildings, ci and cultural buildings; but even these categories, commercial though process is making inroads. Th nearly for every architect comes t time when he finds himself co fronted with the task of designing commercial building and when meets up with the businessman clie

He will find that his client has lively interest in the design of th

structure but he will also find that his interest mostly takes the form of the plural, namely, interests from the structure; and often he feels like Alice in Wonderland when he finds out that he and his client may talk about the same thing but utterly different meaning. When the architect talks about the relations of the building masses, the client dreams of the relations of equity to mortgage. When the architect talks about space organization, the client has in mind the maximum amount of rental space or sales space which can be squeezed out. When the architect talks about the designing of the front, the client thinks he is referring to the front money necessary to get the project going.

Slowly it dawns on the architect that his client is really not interested in the excellency of his building but rather in its productivity and profitability, in minimum construction cost and maximum income, in fullest utilization of land values, and in meeting certain ideas and prejudices of lending institutions, banks, insurance companies, etc., in order to get the highest possible loan. And when he attempts to explain the good qualities of his building to the representatives of the mortgagors, he often finds it difficult to make them even look at plans and elevations as they are preoccupied with studying the leases and the credit rating of future tenants. Loans for buildings which are to be leased are based not on the structural soundness of the building but on the financial soundness of the tenants; not on the thoroughness of design detail but on the thoroughness of lease writing; not on the aesthetics of the structure but on the beauty of the financial statement.

Architect and client think and dream equally hard about the future building but during the time the architect visualizes colors, finishes, and textures, the client visualizes the profit from a sale with capital gains tax.

And so the temptation looms for the architect, bewildered by the financing and merchandising lingo, to give the client what the client wants; to pile rental space on rental space; to economize not only money but also on ideas, imagination and all other building materials; to please the mortgagor by conventionalism, which neither taxes anybody's time nor brains; and to produce mediocrity on the assembly line.

That temptation is great but our particular architect, full of courage and professional pride, rallies his forces. He thoroughly acquaints himself with the laws of building economics, he listens to the calls of the business jungle and learns the language, and he then assembles the weapons for his resistance fight.

He decides to give the client not what he wants but what he ought to want, and to convince him by superior knowledge, logic, persuasion, perseverance that he ought to want it; that he ought to want better materials and better workmanship because of lower upkeep and maintenance; that he ought to want sun control in the form of exterior louvers or fins because it saves capital expense in air conditioning equipment and exterior treatment of the building and also operating expense; that he ought to want certain architectural features, like spaciousness, solidity and, yes, even beauty, because he will attract a better type of lessor willing to pay a higher rental and thus an increase of the loan commitment; that he ought to want in a shopping center underground truck roads because he will gain productive rental space on the main level thus increasing rental income; that he ought to want in shopping centers and other groupings of buildings, pedestrian areas of attractive appearance with sun protection and landscaping and even art, because they will attract more shoppers, thus increasing the business of the lessors and the income from percentage rent considerably; in other words, that he ought to want good design because it spells good business.

If our architect is not only a good architect with creative ability and imagination but also fully armed with the facts of economics of leasing types and rental income, of land costs and construction costs, of financing techniques, leasing costs, property taxes, maintenance costs, upkeep costs, operating costs, mortgage retirement and net profit, if his convictions and his willpower are strong and if he has a certain streak of stubbornness, he will be able to design and build successful and beautiful commercial structures.

He will avoid just singing a tune in the mass choir of mediocrity and rather supply the tenor; he will avoid playing second fiddle in the band and will be the conductor.

We are living in a business society and only if we come down from various ivory towers, only if we join the battle, can we be productively effective. The architecture of each historic period expresses the economic organization of that period. To express the best features of a free democratic society with creativeness and imagination is the task of the contemporary architect.



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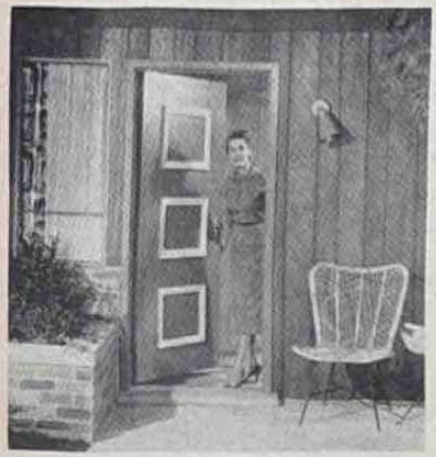
Wall and finish are one—no framing, lathing, plastering or finishing required. Hard, smooth surface resists wear, stains, odors; never needs painting. Clear glaze, plus 12 attractive colors. Standardized sizes and shapes for every requirement. For shape chart and specification details write to KRAFTILE CO., Niles, Calif.; or WASHINGTON BRICK & LIME CO., Spokane, Washington; members of

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and the latest literature

ALL-STEEL ENTRY DOOR: What is believed to be the first all-steel residential exterior entrance door is now



being produced by Steelcraft. The complete unit includes a 16-gauge exterior steel door frame with factory applied bronze weatherstripping, as well as a heavy extruded aluminum threshold with a built-in vinyl plastic seal. In addition to being completely insulated with Rockwool, the door is zinc coated, bonderized and finished in a prime coat of baked-on enamel.

(Item No. 1)

ACOUSTICAL SIDEWALLS: A new adaption for Tectum's wood fiber insulating board is intended as a single-material answer to many industrial sound control problems. When used in conjunction with Tectum roof, two of the three surfaces that have a normal tendency to reflect shop noise and confusion become sound-absorbing elements.

(Item No. 2)

DRINKING BUBBLER: The latest Haws drinking bubbler is designed for fountains where change or replacement to full automatic stream control is desired. Model 127 contains a flow regulator valve that compensates for outside water pressures varying from 10 up to 125 psi. Additional features: a generous mounting flange and an extra long threaded shank to provide wide latitude for installation on practically every type of foundation.

(Item No. 3)

CLAY MASONRY FACING: SCR renu-veneer is a ¾-in. thick slab of hard-burned Norman size brick which is attached to exterior or interior walls by means of a special metal clip nailed to the existing wood wall. After the units are nailed on, mortar is spread in the joints by a special pressure gun. The joint is then tooled as in conventional masonry. L-shaped corner units give a genuine brick appearance on all corners.

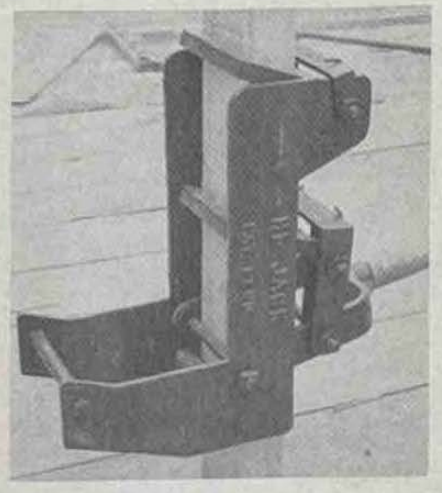
Developed by the Structural Clay Products Research Foundation, the clay masonry facing material is being marketed in three cities and will be introduced elsewhere the next several months as production is expanded.

(Item No. 4)

KITCHEN CABINETS: Available in many built-in colors to fit almost any decorating scheme, kitchen cabinets with sliding doors of Alysnite translucent fiberglass panels are adding smartness to the modern home. The 1⅛-in. corrugated fiberglass requires no painting or refinishing and is easily cleaned with a damp cloth.

(Item No. 5)

JACK: Home Service has developed the Hi-Jack for placing subassemblies in the light construcion field. A high



lift, ½-ton capacity jack, it operates off a 2x4 of any length.

In reducing man-hour requirements for residential framing, the Hi-Jack effects estimated savings of $25 to $30 per 1,000 sq. ft. It has been approved by the State of Washington's Department of Labor and Industries, safety division.

(Item No. 6)

CORK-FACED HARDBOARD: Designed for easy installation as both a structural and a decorative wall covering, Dodge Panelcork is a cork-faced hardboard. Standard panels are 5/16-in. full by 32⅛-in., t&g, beveled at the edges and scored in 16-in. squares. Panels are finished in a stain-resistant, clear resin to bring out the natural cork tones.

Panelcork can be installed directly to studding or over finished walls.

(Item No. 7)

PREASSEMBLED PANELS: Archit and builders who are turning to use of modular dimensions in pl ning houses will be interested in 4-ft. Lu-Re-Co panels, 8 ft. h consisting of studs and sheathing p assembled in a local lumber ya The panels are rough openings the desired type of window or d panels with rough openings eit centered or at one side. They can delivered at the home site, set place and bolted together, and wall framing is complete, ready insulation, interior finishing and terior siding.

Developed by the Small Ho Council of the University of Illin the wall panel system of construct gets its name from the Lumber D ers Research Council, sponsor of project.

(Item No

ELECTRICAL OUTLETS: Sierra Elec has designed a complete new line receptacles under the trade na Sierraplex, with matching wall pla in plastic, brass or stainless st Available in either ivory or brow the receptacles are fully encased arc-resistant plastic housings.

(Item No

VAULT DOORS: Five fire resist vault doors, ranging from a half- six-hour fire protection, have be added to the Meilink Steel Safe li The flat sill construction provi easy entrance into the vault. All c be opened easily from the insi protecting the employer from seri consequences in the event that employee is accidentally locked the vault. A relocking device de locks the bolts in case of attack the lock by means of mechanical to explosives or torch.

(Item No

Latest Handbooks, Manu and Literature

Yours for the Asking

FIR PLYWOOD: Douglas Fir Plyw Association covers fir plywood grad specialty products and applicat data in condensed tabular form architects, builders, engineers a building code officials in a 12-p catalog. The 1957 edition for the fi time features three pages of str tural drawings that describe reco mended fir plywood uses for fl

construction, wall sheathing, roof sheathing and various soffit applications.

Other data: type-use recommendations, standard stock sizes of both exterior and interior types of fir plywood, engineering details for the best results with plywood for concrete forms, minimum FHA requirements and fundamentals of finishing.

(Item No. 11)

STEEL FABRICATION: Outstanding structural steel jobs fabricated and erected by Pacific Car and Foundry



Co. are pictured and described in a 16-page brochure. Included are examples of industrial plants, schools, churches, refineries, bridges and dams.

(Item No. 12)

UNIT HEATER HANDBOOK: A vest-pocket edition of the "Venturafin Unit Heater Handbook" is a handy source of information for on-the-job calculations or conferences. The 64-page book contains specifications and operating characteristics as well as installation and application data for American Blower's complete line.

The handbook has such data as capacity tables, dimensions, external ductwork suggestions, mounting heights, piping diagrams, pipe sizes, sound ratings and wiring diagrams. A typical selection problem is presented with a recommended step-by-step solution procedure.

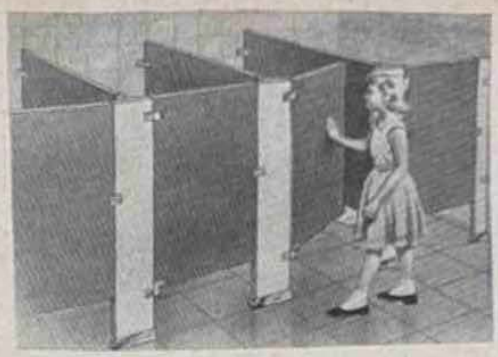
(Item No. 13)

FIBERGLASS PRODUCTS: A 132-page manual which describes the full line of Owens-Corning Fiberglas industrial products is bound so that individual standard sheets or sections pertaining to one principal classification can be removed and used independently.

(Item No. 14)

BRIDGING TESTS: A 16-page technical bulletin reporting the effects of various types of bridging on the behavior of open web steel joists, shortspan series, has been released by the Steel Joist Institute. The test program was sponsored by the institute, an association of the country's major open web steel joist manufacturers, and conducted by the department of civil engineering of Washington University, St. Louis.

(Item No. 15)



METAL COMPARTMENTS: The new line of Mills junior height compartments for kindergarten and grade school facilities is being introduced in a 20-page catalog which covers the company's entire line of toilet compartments, shower and dressing rooms, shower units and hospital cubicles. Actual samples of the 20 standard colors available in porcelain enamel or baked-in enamel finishes are included.

(Item No. 16)

LUMBER DESIGNS: Nearly 300 designs of wood structures, ranging from basic types of trussed rafters and heavy wood roof trusses to highway structures, towers and farm buildings, are illustrated and listed in the 1957 edition of "Typical Lumber Designs." Employing the Teco connector system of engineered timber construction, they are available to architects and engineers for their use as guides in designing for specific needs.

Quantities and material lists accompany each design. Also included are many typical designs which can be secured from West Coast Lumbermen's Association and Southern Pine Association.

(Item No. 17)

BUILDING STONE: Four pictorial brochures issued by the Building Stone Institute run the gamut of stone use in modern architecture — hospitals, schools, churches and commercial buildings—and include split face applications as well as dimension or limestone. Among the West Coast projects shown are the Susan J. Henry Memorial Library and Park Department Building in Seattle, a junior high school in Lynwood, Wash., and a public school in Monterey, Calif.

(Item No. 18)

STEEL IN ARCHITECTURE: Armco has two four-page folders devoted to its special purpose steels. "Why and Where Architects Specify Special Purpose Steels" describes typical uses of stainless steel, Aluminized steel and Zincgrip-Paintgrip steel, a zinc-coated, paint-holding type.

The second folder shows three buildings in color, with drawings that illustrate how exterior and interior panel facings are combined with insulation.

(Item No. 19)

GUNITE: How old brick or concrete structures can be inexpensively rehabilitated both structurally and architecturally is explained by the Gunite Contractors Association in a case study. The four-page bulletin shows progress photos and step-by-step processes in restoring a high school building.

(Item No. 20)

ASPHALT ROOF REPAIR: Henry's 16-page illustrated booklet, "The Repair and Maintenance of Asphalt Roofs," covers such items as principles of roof maintenance, how to repair roof leaks, patching the trouble spots, asphalt roof coatings, aluminum roof coatings and easy roof replacement.

(Item No. 21)

PINE DIRECTORY: The 1957 membership directory of the Western Pine Association lists the facilities, products and plant and sales office locations of the group's 375 members and their 440 manufacturing operations. Punched for insertion in ringbinders, the 20-page publication contains data on all species manufactured.

(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 1957

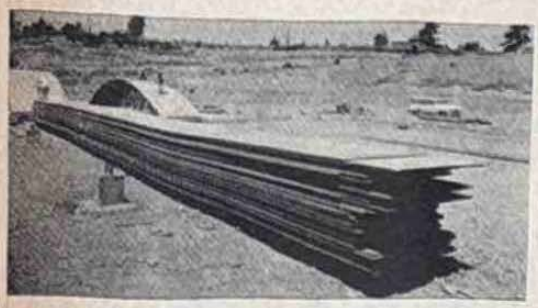
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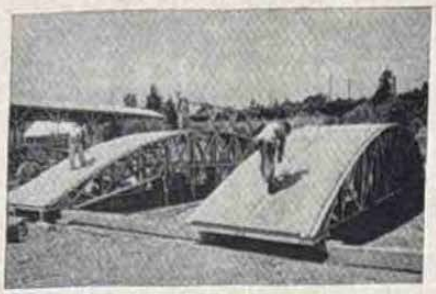
Firm _____

Address _____

City _____ Zone ____ State _____



PLYWOOD provides compression member for upper chord; it is roof sheathing and diaphragmatic bracing for entire building in plane of roof. Steel provides tension members for lower chord and thrust bearing plate for top plate.



ASSEMBLY of roof units in segments, in this case 8 ft. wide and 60 ft. long. Plywood is nailed to 2x8 plate with nails at 6 in. c/c; also bolted with ½-in. bolts at each panel point, extending down to and through lower chord.



ERECTION of 8-ft. unit of roof st Trusses are swung into place by cran seated; lines are slacked away and to moved. Rigging is patterned after loggin used in woods.

Long-span wood roof framing combines plywood with steel

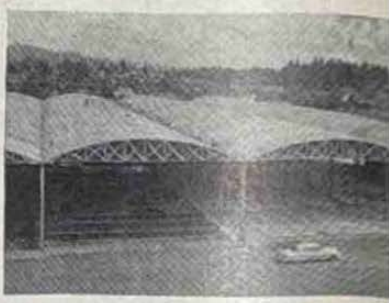
A NEW DESIGN for wood roof framing for long spans combines plywood with steel to provide a practical, low cost structure for warehouses, commercial buildings, industrial plants, hangars, etc.

Marketed under the label PSI, it comes to the site with all lumber and plywood cut to detail and all steel and hardware fabricated to pattern. The economy of attaching the roof sheathing to the trusses before erection is apparent.

Advantages of the low-rise truss are seen in the small dimension material required and the continuous scarfed plywood upper chord which likewise functions as roof sheathing. At the same time the plywood roof decking provides diaphragmatic bracing for the entire building.

Where the utmost economy must be provided, the roofing is done new way: joints are given one of mastic, followed by laying a ribbon of fiberglass and again another coat of mastic; the e surface is then given one moppe coat of roofing compound, gene about 3 gal. to the square.

The roof truss design was or ated by Roy A. Gould, presiden Diamond Lumber Co. A divisio the Portland firm, Plywood St tures, Inc., has been set up to ha this new operation.



COMPLETED roof framing before endwal sidewalls have been placed. Battered sid were used in this building to provide bracing. Trusses are supported on con lintel beams with columns every 24 ft. from concrete slab to bottom of trus 27 ft. Here is warehouse at total cost per square foot.

Ceramic-on-steel tile

Quality ceramic-on-steel produ formerly used only in such st areas as jet engines and indust furnaces, now are available to home building field in the form wall tile.

Bettinger Corp., for example, is packing its Starfire tile at the p into individual bathroom units all the necessary forms and acces ies for a single home unit for fabricated construction. This tech que is proving successful in m large housing developments today



architect:
Wohleb & Wohleb & Assoc.

contractor:
STRAND & SON

mason contractor:
KENNETH GEORGE

Attractive Olympia Memorial Clinic *features*

Chehalis Red Roman Brick

The warm, pleasing texture of Chehalis Red Romans—the Pacific Northwest's most distinctive brick—was selected by the architect to distinguish this modern clinic building in Olympia.

Here is functional design at its eye-appealing best—permanent, practical, fire-safe . . . and economical to build and maintain! Only brick—and preferably CHEHALIS BRICK—combines all these advantages so well.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON



WOODMAN, SPARE THAT TREE! This carport, built around 12-ft. pine, uses Alsynite panels in sides and roof.

Translucent carport

A carport in La Jolla, Calif., has been built around a 12-ft. Monterey pine which projects through the roof.

When a new wing was added to the owner's ranch style home, on a knoll overlooking the Pacific, the tree, nurtured since a seedling, stood in the way. Rather than move it or cut it down, he decided to fashion the structure to fit.

The Alsynite panels used in the sides and roof provide cool, diffused light for the carport, encourage growth and require little maintenance.

Plywood panels

Bateson Contracting Co. of Fort Lewis, Wash., estimates that it saved about 30% on labor costs by using big panels of ⅜-in. thick plywood sheathing in construction of housing units like the one shown below at the fort.

The contractor used 330,000 sq. ft. of plywood panels, each 32 sq. ft., on 117 buildings which will house army officers and enlisted men and their families. The units range from four to eight in a building, with one, two or three bedrooms each.



BIG PLYWOOD PANELS are used on 117-building project at Fort Lewis, Wash.



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PERFORMANCE! . . . Each unit air-tested, and rated to assure certified ratings. Exceedingly high efficiencies. Detailed performance data in Bulletin SDA-220.

ADAPTABILITY! . . . Fits standard curb sizes. Lower h.p. ratings for quieter operation. Higher h.p. for commercial and industrial applications.

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Builders and Suppliers

headlining the news



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The plant was destroyed by fire early last year and Washington Brick joined with Green to rebuild the plant and resume production. W. S. Lowe, president of Green, states that the Troy plant will start production again in 1957.

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• **W. P. Fuller & Co.** is spearheading plans for "the most dynamic decade in the history of the firm" with the establishing of four major districts in the 11 western states. General managers who assumed their new duties December 1 are: H. B. Wilson, southern district (southern California and all of Arizona); S. H. Kline, cen-

Builders and Suppliers

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Other promotions announced by Fuller include the following branch managers: P. A. Sherrard, Los Angeles; Paul C. Keenan, San Diego; M. H. Poppett, San Francisco; W. Schweitzer, Seattle; L. R. Brown, Sacramento; L. R. Templeton, Boise.

• **Columbia Electric and Manufacturing Co.** has opened a new branch in Pasco, Wash., to serve southeastern Washington and northeastern Oregon. The branch, headed by Jack Vertrees who has been with the firm nine years, marks Columbia Electric's second expansion in the area this year. An electronics parts warehouse was opened in Kennewick in May.

• **Cligan & Fortier, Inc.,** western distributor for Reynolds aluminum with headquarters in Los Angeles, has opened four additional warehouses in San Diego, North Hollywood and Ontario, Calif., and Spokane, Wash., making a total of 10 such facilities on the West Coast.

• **Northwest Hardwood Association** has reelected its president, Emmet J. Nist of Seattle. Others named: Hamlet P. Steele, Bellevue, Wash., vice president; Harry P. Caldwell, Seattle, treasurer; and Paul A. Barber, Willamina, Ore., John Hauber Jr., Seattle, and Victor Nelson, Sedro-Woolley, directors for three-year term.

• **Pryne & Co., Inc.,** has named Richard V. Burns as vice president in charge of manufacturing at both the firm's Pomona, Calif., and Keyser, W. Va., factories. Burns started with the firm's West Coast plant as a bench mechanic.

A subsidiary, Pryne-Rittenhouse Sales Corp., has transferred its midwestern divisional sales manager, R. A. Maynard, to the company's home office in Pomona.

• **Gladding, McBean & Co.** has named E. H. Whitney as general superintendent of the new $1.5 million brick plant the firm is building at Mica, Wash. Whitney has been production manager of the company, with headquarters in Seattle.

D. E. McConnell, who is now plant superintendent at the old Mica plant, will take over the same duties when the new plant is completed in September 1957. The 160,000-sq. ft. project will include a 398-ft. tunnel kiln, one of the largest in the Northwest.

• **Paul Hardeman, Inc.,** constructors-engineers, with headquarters in Los Angeles, has merged its five subsidiaries—J. B. Gill Co., Wall Cryogenics, Inc., Climate Conditioning Corp., Systems Engineering Co. and Electronetics Corp.—with the parent organization. This group, together with Hardeman Pipe Fabricating Division and fire sprinkler division, is now consolidated in a single operating company.

• **Fabricon Products** of Los Angeles has named two new distributors of its decorative plastic laminates in the Northwest: George Meyers & Co., Idaho Falls, Idaho, and Lester E. Houser Distributing Co., Billings, Mont.

• **Pomona Tile Manufacturing Co.** has appointed Kenneth P. Clayton as district sales representative for southern Idaho, Utah and Wyoming.

• **Permanente Cement Co.** has established offices in the National Oil Building, 609 S. Grand Ave., Los Angeles, for the staff of its new southern California division, headed by C. W. (Pete) McKinley, a 11-year member of the firm's sales force.

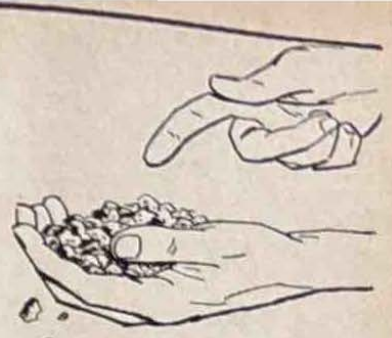
Permanente's new 2½-million-bbl. cement manufacturing plant at Lucerne Valley, San Bernardino County, is scheduled to begin production in early 1957. A bulk distribution facility is now under construction at Corona, Riverside County, to increase the efficiency of customer delivery service in the area.

• **Georgia-Pacific Corp.** has purchased the Charles E. Sand Plywood Co. in Portland, No. 35 in Georgia-Pacific's fast-growing warehouse network. Harold E. Sand, who became owner and president of the plywood company in 1948, will continue as manager. Donald D. Casey, who became a partner in the Sand operation in 1956, has resigned in favor of other business interests.

• **Westinghouse Electric Corp.** has named William G. Heath as Los Angeles district manager of its elevator division, succeeding Herbert C. Galitz, who has been promoted to southwestern regional manager with headquarters in Dallas.

• **Monroe Food Machinery, Inc.,** of Portland has been appointed an associate of York Corp. and has formed a separate division under the management of R. K. McCormack, formerly manager of York's Portland office.

• **Flintkote Co.** has acquired the United States Lime Products Corp. of Los Angeles, latest in a series of moves in a $20 million program of expansion and diversification. Kennedy Ellsworth, executive vice president of United States Lime Products, will direct the operation of the new Flintkote division. The company's sales offices in Los Angeles, San Francisco and Portland and warehouse facili-



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The extra light weight of Cascade Pumice Concrete saves you money on handling costs, speeds up building. When weight is a factor, always specify Cascade Pumice Concrete for best results.

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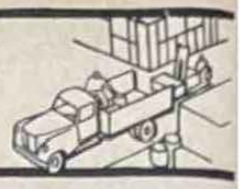
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Builders and Suppliers

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• **Kaiser Gypsum Co., Inc.,** has a new assistant general sales manager, Tommy C. Donovan, formerly assistant district sales manager for the firm's southern California sales area. He succeeds Robert A. Costa, recently named vice president and assistant general manager in charge of Kaiser Gypsum's newly acquired insulating board division.

• **M. Greenberg's Sons** president Stuart N. Greenberg has been appointed to the Public Utilities Commission of the City and County of San Francisco.

• **The A. P. Green Fire Brick Co.** of Mexico, Mo., has purchased the interest of Washington Brick and Lime Co. in the Troy Fire Brick Co. of Troy, Idaho. Neal R. Fosseen, president of Washington Brick, says the move would make it possible for Washington Brick to emphasize its own brick and tile production. The firm had a one-third interest in the Troy company in recent times and once the Troy plant was a wholly-owned subsidiary of Washington Brick.

The plant was destroyed by fire early last year and Washington Brick joined with Green to rebuild the plant and resume production. W. S. Lowe, president of Green, states that the Troy plant will start production again in 1957.

• **Merrell Steel Building Co.** of Portland, distributor in northwest Oregon and southern Washington for Stran-Steel Corp., has appointed Chas. R. Wilson as manager of sales and sales promotion for the manufacturer's architectural products.

• **W. P. Fuller & Co.** is spearheading plans for "the most dynamic decade in the history of the firm" with the establishing of four major districts in the 11 western states. General managers who assumed their new duties December 1 are: H. B. Wilson, southern district (southern California and all of Arizona); S. H. Kline, cen-

tral district (central and northern California); Intermountain district (Nevada, Utah, Idaho and Montana); Northwest district (Oregon, Washington and Alaska).

Other promotions announced by Fuller include the following branch managers: P. A. Sherrard, Los Angeles; Paul C. Keenan, San Diego; M. H. Poppett, San Francisco; W. Schweitzer, Seattle; L. R. Brown, Sacramento; L. R. Templeton, Boise.

• **Columbia Electric and Manufacturing Co.** has opened a new branch in Pasco, Wash., to serve southeastern Washington and northeastern Oregon. The branch, headed by Jack Vertrees who has been with the firm nine years, marks Columbia Electric's second expansion in the area this year. An electronics parts warehouse was opened in Kennewick in May.

• **Cligan & Fortier, Inc.**, western distributor for Reynolds aluminum with headquarters in Los Angeles, has opened four additional warehouses in San Diego, North Hollywood and Ontario, Calif., and Spokane, Wash., making a total of 10 such facilities on the West Coast.

• **Northwest Hardwood Association** has reelected its president, Emmet J. Nist of Seattle. Others named: Hamlet P. Steele, Bellevue, Wash., vice president; Harry P. Caldwell, Seattle, treasurer; and Paul A. Barber, Willamina, Ore., John Hauber Jr., Seattle, and Victor Nelson, Sedro-Woolley, directors for three-year term.

• **Pryne & Co., Inc.**, has named Richard V. Burns as vice president in charge of manufacturing at both the firm's Pomona, Calif., and Keyser, W. Va., factories. Burns started with the firm's West Coast plant as a bench mechanic.

A subsidiary, Pryne-Rittenhouse Sales Corp., has transferred its midwestern divisional sales manager, R. A. Maynard, to the company's home office in Pomona.

• **Gladding, McBean & Co.** has named E. H. Whitney as general superintendent of the new $1.5 million brick plant the firm is building at Mica, Wash. Whitney has been production manager of the company, with headquarters in Seattle.

D. E. McConnell, who is now plant superintendent at the old Mica plant, will take over the same duties when the new plant is completed in September 1957. The 160,000-sq. ft. project will include a 398-ft. tunnel kiln, one of the largest in the Northwest.

• **Paul Hardeman, Inc.**, constructors-engineers, with headquarters in Los Angeles, has merged its five subsidiaries—J. B. Gill Co., Wall Cryogenics, Inc., Climate Conditioning Corp., Systems Engineering Co. and Electronetics Corp.—with the parent organization. This group, together with Hardeman Pipe Fabricating Division and fire sprinkler division, is now consolidated in a single operating company.

• **Fabricon Products** of Los Angeles has named two new distributors of its decorative plastic laminates in the Northwest: George Meyers & Co., Idaho Falls, Idaho, and Lester E. Houser Distributing Co., Billings, Mont.

• **Pomona Tile Manufacturing Co.** has appointed Kenneth P. Clayton as district sales representative for southern Idaho, Utah and Wyoming.

• **Permanente Cement Co.** has established offices in the National Oil Building, 609 S. Grand Ave., Los Angeles, for the staff of its new southern California division, headed by C. W. (Pete) McKinley, a 11-year member of the firm's sales force.

Permanente's new 2½-million-bbl. cement manufacturing plant at Lucerne Valley, San Bernardino County, is scheduled to begin production in early 1957. A bulk distribution facility is now under construction at Corona, Riverside County, to increase the efficiency of customer delivery service in the area.

• **Georgia-Pacific Corp.** has purchased the Charles E. Sand Plywood Co. in Portland, No. 35 in Georgia-Pacific's fast-growing warehouse network. Harold E. Sand, who became owner and president of the plywood company in 1948, will continue as manager. Donald D. Casey, who became a partner in the Sand operation in 1956, has resigned in favor of other business interests.

• **Westinghouse Electric Corp.** has named William G. Heath as Los Angeles district manager of its elevator division, succeeding Herbert C. Galitz, who has been promoted to southwestern regional manager with headquarters in Dallas.

• **Monroe Food Machinery, Inc.**, of Portland has been appointed an associate of York Corp. and has formed a separate division under the management of R. K. McCormack, formerly manager of York's Portland office.

• **Flintkote Co.** has acquired the United States Lime Products Corp. of Los Angeles, latest in a series of moves in a $20 million program of expansion and diversification. Kennedy Ellsworth, executive vice president of United States Lime Products, will direct the operation of the new Flintkote division. The company's sales offices in Los Angeles, San Francisco and Portland and warehouse facili-





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ties in Los Angeles, San Francisco and Oakland will be maintained.

The company also has purchased Van-Packer Corp., manufacturer of prefabricated chimneys for use in residential, institutional and industrial construction.

• **Calaveras Cement Co.** recently honored two veteran employees upon their retirement: Al Maier who joined the firm in 1934 as salesman in the San Jose territory, transferring in 1941 to Oakland, and A. L. (Buck) Sundell who joined the company in 1935, serving as its North Coast sales representative for all except four years during which he was assigned to duties at the San Andreas plant.

• **Safway Scaffolds Co.** of Eugene, Ore., has been appointed dealer for Buck Equipment Corp.

NATIONAL NOTES

• **Architectural Terra Cotta Institute** reelected George H. Berry 3rd of American Terra Cotta Corp., Crystal Lake, Ill., as president at its annual meeting in Washington, D. C. Other officers are Raymond H. Brown, Gladding, McBean & Co., San Francisco, vice president; Mrs. E. D. Quackenbush, Federal Seaboard Terra Cotta Corp., New York, secretary; and Robert L. Ketcham, O. W. Ketcham Co., Philadelphia, treasurer.

• **Building Stone Institute** will hold its 1957 annual convention at the Hotel Roosevelt in New Orleans February 21-23. Topics will include architecture, economic research as applied to building and sales management.

• **National Association of Distributors and Dealers of Structural Clay Products** has been organized to increase sales of burned clay products and to maintain a closer liaison with the manufacturers of these products through the Structural Clay Products Institute, according to the newly elected president, Harry M. Spaulding of Spaulding Brick Co., Boston.

Producers' Council head backs modular measure

Establishment of the Honolulu chapter of Producers' Council marks the 39th in the national organization devoted to the mutual aims of architects and building materials manufacturers and suppliers.

The new president of Producers' Council has been in the forefront in the struggle to get the construction industry to adopt the modular concept, which would utilize multiples of 4 in. as a basis for dimensioning buildings, as well as materials and equipment.

This past spring Fred M. Hauserman, 47-year-old president of The E F. Hauserman Co., was honored for his work in the field by the American Standard Association when he was given its Modular Measure Award.

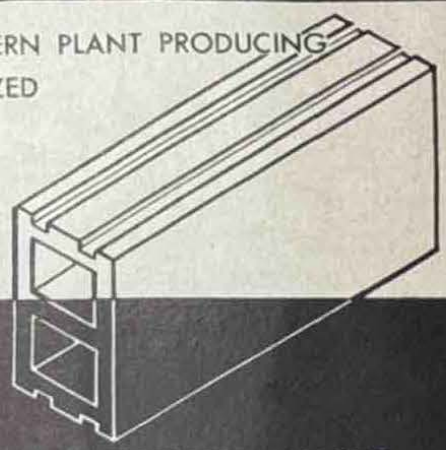
Some manufacturers of similar types of products, working through their own associations, have been able to develop certain standards for dimensioning their products, but coordination of dimensions of all material and equipment is still to be achieved.

Hauserman also has been a leader in industry efforts at organized and cooperative research. From 1953 through 1955 he served as vice president and later as president of the Building Research Institute of the National Academy of Sciences.

The new head of Producers' Council has served the group in several positions. At 35 he became one of the youngest presidents of a major manufacturing firm and last year he was an area vice president of the Young Presidents' Organization.

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Construction News Bulletin

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BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

MOTEL— Bend, Ore.

Construction will start soon for a motel of seven units, to be known as the Riverside Motel, which will be located as additional units to an existing one operated by C. C. Kirtsis in the area near Pioneer Park, along Highway 97, Bend. SC 1-15

▲GAP FILLER FACILITY— Burns Junction AF Station, Ore.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of a gap filler facility at Burns Junction AF Station, Ore.; ENG-45-108-57-92. LOW BID: McComack Construction Co., S.E. 3rd and Goodwin Streets, Pendleton, $64,558. OTHER BIDS: Thompson & Georgeson, 1924 S.E. 6th, Portland, $76,665; The Timber Co., 2150 N. 1st, Hermiston, $87,499; Mann Construction Co., 217 6th St., Redmond, $99,510; Hampton C. Platt, 3805 Thorndale Road, Salem, $110,534; J. G. Watts Construction Co., Route 1, Box 300, Salem, $114,320. Engineer's estimate, $84,816. Bids opened January 11.

GW 1-12. Previous report 12-29

MUSIC BUILDING— Canyonville, Ore.
(Estimated cost $50,000)

Construction underway on the Falk Music Conservatory building on the campus of Seventh-Day Adventist Milo Academy, 17 miles east of Canyonville. Plans by Robert Fisher, architect, 220 N.E. Beacon Drive, Grants Pass. Construction is being done by crews which have been working on building development at the academy. Frame construction; one-story; 60'x80'; 5,000 sq. ft.; asbestos-cement board siding; glued laminated beams; wood roof structure; prefabricated wood sash; concrete floors; plaster wall finish; acoustical plaster ceilings; asphalt tile flooring; heating and ventilating system installed in connection with campus central heating system.

SC 1-16. Previous report 11-21

▲HEATING SYSTEM— Clackamas, Ore.

Bids received by Oregon Fish Commission, M. C. James, state fisheries director, 307 State Office Bldg., Portland, for heating system at Clackamas Research Laboratory, ¼ mi. east of 82nd St. and 1 mi. south of Clackamas, Ore. BIDDERS:2 H. J. Sandberg Co., 500 N.E. Union Ave., Portland, $2,260; Modern Heating Service, 3303 S.E. Division St., Portland, $2,673; Peterson Plumbing & Heating Co., 147 E. Powell, Gresham, $2,679; M. & N. Sheet Metal, 1919 Harrison, Milwaukie, $2,587. Bids opened January 11. WB 1-15. Previous report 1-2

■NAVAL FACILITY— Coos Head, Ore.

Additional planholders for the construction of U.S. Naval Facility building at Coos Head, 95 miles north of the California-Oregon state line on the Pacific Coast; NBY-6594; Spec. No. 6594/56. Bids will be opened 2 p.m., January 29, by 13th Naval District, room 100, building 232, U.S. Naval Station, Seattle. Plans with above office. $150 deposit. Bid bond 20%.

Additional planholders: Hall-Atwater, Inc., 605 13th, Seattle; Sound Construction and Engineering Co., 1300 Aloha, Seattle; Campbell Construction and Equipment Co., 1150 Folsom, San Francisco, Calif.; Diversified Builders, Inc., Box 390, Monticello; B & R Construction Co., 110 Market St., San Francisco, Calif.; Wayne Construction Co., 3810 Stone Way, Seattle; B. Gill & Co., 11558 Tennessee Ave., Los Angeles, Calif.; S. S. Mullen, Inc., 646 Holgate, Seattle; Funston Construction Co., 3726 S.E. Hawthorne, Portland; Quality Builders, Inc., Box 1503, Tacoma; A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland; H. G. Carl Construction Co., Box 387, Salem, Ore.; J. E. Brown Co., 1000 S.E. 12th, Portland.

GW 1-12. Previous report 12-18

★FOREST PRODUCTS LABORATORY— Corvallis, Ore.

Award to John Steinmuller, Jr., 907 W. 3rd St., Eugene, $403,073, by R. M. Kellander, admintsartor, Forest Protective and Conservation Committee, 2750 State St., Salem, for construction of the state's Forest Products Laboratory in Corvallis. Plans by James L. Payne, architect, 725 S. Commercial St., Salem. Steinmuller's base bid of $458,610 was reduced by eliminating the following: 16' of one 208' laboratory wing, automotive garage, fire protection sprinkler system, ventilating fans, all interior painting except ceilings, and transfer of small boiler.

CI 1-16. Previous report 1-11

COURTHOUSE— Dallas, Ore.
(Estimated cost $100,000)

Roald, Schmeer & Harrington, architects, Portland Trust Bldg., Portland, have been retained by Polk County Court, Courthouse, Dallas, to prepare plans for remodeling and an annex to the courthouse in Dallas. Plans will be prepared within the next few weeks. A fund of $100,000 has been set aside by the budget committee for the project. SC 1-15

●LODGE FURNISHINGS— Eugene, Ore.

Bids will be opened 8 p.m., January 22, at the office of Dewey Hazelton, secretary, Moose Lodge, Eugene, for equipment and furnishings for the new Moose Lodge building in Eugene. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Portland. Unit bids are sought on carpeting, chairs, sofas, end tables, lounge tables, stage curtain and tract, bar stools and ice machine. DW 1-16

●HIGH SCHOOL ADDITION— Gold Beach, Ore.

Bids to be opened 8 p.m., February 7, by Union High School District No. 1, Curry County, Harold Stokes, clerk, Gold Beach, for classroom addition to the high school. Plans with Freeman, Hayslip, Tuft & Hewlitt, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Addition of three general classrooms, physics and chemistry classrooms, teachers' room, health room and accessory space. Concrete slab floor on grade; frame walls with sheathing and asbestos siding; wood sash; glued laminated beams with 2" tongue and groove decking; built-up roofing; asphalt tile flooring; gypsum board wall finish covered with hardboard wainscots in classrooms and vinyl in corridors; acoustical tile ceilings; steam heating from existing boilers with strip convectors and unit ventilators; alternates for incandescent and fluorescent lighting. WB 1-12. Preivous report 12-6

▲LIGHTING, PAINTING—Hood River, Ore.

Bids received by General Services Administration, room 126, Federal Office Bldg., Seattle, for fluorescent lighting and painting for the U.S. Post Office on Cascade Ave. and 4th St., in Hood River; Proj. No. CR-10-630. LOW BID: Lorentz Bruun, 3636 S.E. 20th Ave., Portland, $8,889; Charles S. Camplan, 2035 S.W. 58th, Portland, $9,180; L. C. Baldwin Construction Co., Hood River, $10,-573. Bids opened January 14.

GW 1-16. Previous report 1-8

GREYHOUND TERMINAL— **Klamath Falls, Ore.**

(Estimated cost $100,000)

Plans will be complete soon and construction will start after March 15 for a new terminal building to be located at the corner of Commercial St. and Klamath Ave. in Klamath Falls, for Pacific Greyhound Lines, 371 Market St., San Francisco, Calif. Plans by Lyle P. Bartholomew, architect, 3335 Pringle Road, Salem. Estimated cost does not include $38,000 for coffee shop and restaurant or cost of fittings and facilities for the terminal and restaurant. Also in addition to the estimated cost is loading dock for seven buses and parking area. Completion expected in late summer of 1957. Two-story building will measure 100'x216' and have reinforced concrete footings and foundations.

ZZ 1-16. Previous report 1-12

★CORNET STORE— **Lebanon, Ore.**

Award announced for construction of a new Cornet Variety store in the Southgate Shopping center in Lebanon. Plans by James L. Payne, architect, 725 S. Commercial St., Salem. Bids opened January 4. AWARD: Thomas E. Gates & Son, 120 Oak Lane, Lebanon, $29,000. OTHER BIDDERS: Cutts Construction Co., 472 E St., Lebanon, $29,860; Starr Builders, 1765 S. Main, Lebanon, $31,264; Robert Randolph, 3815 Welty Ave., Salem, $31,322; Mills Construction Co., Route 2, Box 294, Salem, $31,505; John M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $31,586; Grubb, Johnson & Rose, Crees Bldg., Corvallis, $32,791; Claude Buerge, 113 Calapooia St., Albany, $32,797; H. G. Carl Construction Co., 1210 S. 22nd St., Salem, $37,538. Building will measure 100'x60' and will have tilt-up concrete walls.

SC 1-11. Previous report 12-22

SCHOOL EXPANSION, WOODWORKING SHOP— **Mapleton, Ore.**

One bond issue approved and one defeated in January 9 election held by Mapleton School District No. 32, Richard Boyd, superintendent, Mapleton. Bond issue for $246,000 approved to finance an eight-classroom addition to the grade school, including an administrative unit to provide offices, teachers' room, library, health room and storage space, 50'x80' multipurpose room and site improvements, and construction of a woodworking shop for the high school in Mapleton. Bond issue for $29,000 defeated; would have provided funds for kitchen equipment and folding tables for the multipurpose room.

DW 1-15. Previous report 12-28

HIGH SCHOOL— **Mill City, Ore.**

(Estimated cost $206,000)

Bond election will be held January 21 by Santiam Union High School District, James B. Putnam, principal of Santiam Union High School, Mill City, for a $206,000 bond issue to finance construction of an eight-classroom high school building to be located at the present high school site (the former Mill City High School) adjacent to the recently built school gymnasium in Mill City. Architect, Benjamin E. Cave, 3240 Triangle Drive, Salem, has been retained by the district to prepare plans and specifications for the proposed school. Tentative plans call for one-story building; lightweight concrete block structure; concrete block walls; built-up roofing; extension existing heating system. If bond issue is approved, construction is planned during 1957.

CI 1-15

HIGH SCHOOL— **Oakridge, Ore.**

(Estimated cost $550,000)

Bid call to be issued in late January with bids to be received mid-February by Oakridge School District No. 76, Paul Elliott, superintendent, Oakridge, for construction of a new senior high school on same site as existing high school. Plans by John Smeed, Frank Shell and Charles Hoyt, associated architects, 8313 S.W. Barbur Blvd.; Thomas Taylor, mechanical engineer, Portland Trust Bldg.; Grant Kelley & Associates, 1008 S.W. 6th Ave., electrical engineers, 1008 S.W. 6th Ave., all Portland.

Building will have total of 43,000 sq. ft. in two classroom wings and central section containing cafetorium, physical education activity room and shops; ramps will connect different floor levels, covered bus loading walk at front. The existing high school will be used as junior high school and existing gymnasium will be used jointly. Building will include following rooms: administrative offices (general, principal's, conference room), vault, health room, and work room; commercial and business machine; library, stacks, conference and work room; art room; homemaking; biology; general science; science room; six classrooms; auto shops; drafting, paint room; industrial arts; cafetorium, storage, kitchen; teachers' room; physical education activity room. Concrete slab floors on grade; laminated post and beam frame with 2"x6" decking (alternate for structural insulation board on bulb tees); exterior walls aluminum curtain wall (alternate for steel), and cavity brick end walls; non-bearing concrete block interior partitions, exposed; acoustical tile ceilings; asphalt tile flooring; built-up roof on insulation; hollow metal frames; hollow metal exterior doors; wood interior doors; modular cabinet work; stainless steel kitchen work; steam unit heaters in shops and physical education activity and split system of heating and ventilating for cafetorium, all using steam from existing plant; electrical unit ventilators in all classrooms; fluorescent lighting in classrooms, corridors, etc.; incandescent lighting in cafetorium, etc. Construction to be financed by $600,000 bond election approved in December. Of this amount about $550,000 will be used for the building and the remainder for equipment.

WB 1-11. Previous report 12-20

HIGH SCHOOL— **Pendleton, Ore.**

(Estimated cost $2,000,000)

Bids will be called in February for opening about March 19 (tentative) by Pendleton School District No. 16C, Wallace McRea, superintendent, 515 S.W. 4th St., Pendleton, for construction of a new high school, to be located on the golf course at the site of Pendleton Country Club, in Pendleton. Plans complete and pending final approval by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Construction is expected to start in late March or early April.

The 30-room school will be constructed in six interrelated units on a modified campus plan and will have a 750-student capacity. One-story; reinforced concrete footings and foundations; 124,000 sq. ft.; slab on grade concrete masonry units, prefabricated curtain walls of glass and porcelain enamel; precast prestressed concrete beams, thin shell concrete barrels; concrete built-up roof, composition cover; concrete masonry partitions; concrete stairways between ground levels; painted interior and exterior wall finish, wood and metal trim; painted concrete masonry interior partitions; asphalt tile, ceramic tile (shower rooms), quarry tile and stone (walls), terrazzo finish on stairs; acoustical tile ceilings on wood stripping; hollow metal exterior doors, wood slab or metal interior doors; special equipment includes 24'x110' mobile partitions in gymnasium, metal overhead doors in shop, folding wood partitions in cafeteria, flexible tack and chalk boards built as units; rigid board insulation in roof and walls; low pressure oil-fired steam heating system; unit ventilators, exhaust fans; fluorescent and incandescent lighting.

SC 1-16. Previous report 10-9

★CLASSROOM EQUIPMENT— **Portland, Ore.**

Awards by Portland School District No. 1, 620 N.E. Halsey St., Portland, for replacement of classroom equipment for various elementary schools and storeroom stock. AWARDS: Frank C. Cohan Co., 1929 S.W. 6th Ave., Portland, $28,640; Virco Manufacturing Corp., $4,004; The J. K. Gill Co., 408 S.W. 5th Ave., Portland, $4,069; D. C. Wax Office Equipment House, 219 S.W. Broadway, Portland, $923. Bids opened November 28.

WB 1-11. Previous report 11-15

■TRAINING CENTER REPAIRS— **Portland, Ore.**

Planholders announced for the repairs and improvements to the Naval Marine Reserve Training buildings at Portland. Bids to be opened 2 p.m., January 23, by 13th Naval District, room 100, Building 232, U.S. Naval Station, Seattle. Plans with public works officer, above address. $25 deposit. Bid bond 20%.

Planholders: Beaver Construction Co., 5301 N.E. Portland Highway; C. H. Savage Co., 4126 S.E. Milwaukie Ave.; George C. Clark, 6524 N. Albina; Jones & Co., 4536 N.E. 41st; G. Sopacasa & Sons, 4324 S.E. 25th; A. H. Barbour & Sons, 2828 N.E. Alberta; J. E. Brown Co., 1000 E. 12th; Todd Russ, 9335 S.W. Grove Lane; General Construction Co., 3840 Iowa, Seattle. All of Portland unless otherwise stated.

GW 1-12. Previous report 1-3

●SYNAGOGUE— **Portland, Ore.**

Bids to be opened 11 a.m., February 4, in office of Harry A. Herzog, architect, 418 Henry Bldg., Portland, for construction of synagogue on S.W. Park Ave. between Jackson and Clifton streets for Congregation Shaarie Torah, 1926 S.W. 1st Ave. General contract plans now available at architect's office. $25 deposit. Plumbing, heating, ventilating and wiring plans to be available about January 18.

Two-story and basement structure covering about 15,000 sq. ft.; main floor includes sanctuary with 500 seats and seating for 300 more in adjacent rooms separated from sanctuary by movable partitions (one of these rooms will also serve as Sunday school auditorium and week-day chapel); main floor also includes entrance vestibule and foyer, rabbi's study, classrooms, library and storage space; second floor includes classrooms, principal's room and toilet facilities; basement includes heating and ventilating plant, rest rooms and future kitchen and dining space. Concrete and frame construction with brick and stone veneer exterior finish; metal sash; flat composition roof; acoustical plaster and tile, and hardwood wall and ceiling finishes; carpeting in sanctuary and foyer; asphalt and rubber tile flooring elsewhere, except ceramic tile in toilets; blacktopped parking area.

WB 1-12

●DORMITORY, DINING HALL— **Portland, Ore.**

Bids to be opened 2 p.m., February 1, by Lewis & Clark College, Dr. Morgan S. Odell, president, 0615 S.W. Palatine Hill Road, Portland, for girls' dormitory addition, and dining hall. Plans with Stanton, Boles, Maguire & Church, architects, 208 S.W. Stark St., Portland. Separate or combination bids. $75 deposit for each part of project. Certified check or bid bond 10%.

DORMITORY — Two-story addition to Stewart hall will include 36 rooms to house 72 girls; head resident's room; single guest room; living and recreational space. Construction to match existing frame with brick veneer and some cedar siding exterior; asbestos shingle roof; wood sash; asphalt and vinyl asbestos tile flooring; plaster walls; acoustical plaster ceilings; hair felt coat over second floor subfloor; ceramic tile toilets; low pressure steam heating from existing boilers with convectors on a two-pipe system; incandescent lighting.

DINING HALL—First floor and partial ground floor will contain dining room seating 400 persons, several private dining rooms, kitchen, refrigerated and general storage. Project includes sewer work for both buildings; driveway paving and parking areas. Reinforced concrete lower floor and frame above; some painted concrete exterior; some cedar siding; built-up roof; wood sash; glued laminated arches; exposed beams; some curved roof sheathing; metal lath and plaster and some gypsum board behind wood paneling; some acoustical ceilings with blanket insulation; mostly vinyl asbestos tile flooring; some ceramic and quarry tile; kitchen equipment; oil-fired, low pressure steam heating with forced floor hot water and tempered air ventilation; mostly incandescent lighting.

WB 1-12. Previous report 10-4

▲BASEMENT, SHED ALTERATIONS— **Portland, Ore.**

Bids received by General Service Administration, room 126, Federal Office Bldg., Seattle, Wash., for miscellaneous alterations to the basement and transportation shed at the U.S. Post Office in Portland; CR-10-636. LOW BIDS: Russell Todd, 9335 S.W. Fir Grove Lane, $7,283; Adolfo C. Bardi, 8105

S.E. Duke, $7,447; Lorentz Bruun, 7337 S.E. 28th, $7,681. All of Portland. Bids opened January 10. GW 1-12. Previous report 12-27

▲HOSPITAL ADDITION— Portland, Ore.

Bids received in office of Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland, for addition to Portland Sanitarium and Hospital, S.E. 60th Ave. and Belmont St. BIDDERS: James S. Hickey, Inc., 523 S.E. Stark St., $269,100; Weston Construction Co., 1415 N.E. Glisan St., St., $273,970; Contractors, Inc., 1101 N.E. 21st Ave., $279,113; E. E. Settergren, 3723 S.E. 21st Ave., $281,000; C. M. Corkum, 2630 S.E. 2nd Ave, $285,330; Howard Brewton, 1240 S.E. Gideon St., $288,773; O. R. Wayman, 3125 N.W. Front Ave., $292,403; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $297,700, Sergeant Construction Co., 10104 S.E. Ankeny St., $299,075; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., $299,300; George H. Buckler, 4235 S.E. 17th Ave., $338,237. Of Portland. Bids received January 11. WB 1-15. Previous report 1-3

YMCA NORTH PORTLAND BRANCH BUILDING— Portland, Ore.

Bid call to be issued about January 28 by Young Men's Christian Association, Clarence Walker, chairman of branch board of managers, 831 S.W. 6th Ave., Portland, for a North Portland Branch building in Walnut Park area. Plans under way by Whittier & Fritsch, architects, 301 Dekum Bldg., Portland.

Building will be similar to southeast branch building now out for bid, but will not include a pool. It will provide space for club meetings, craft and hobby activities, youth and adult interest groups, kitchen and all-purpose room. Reinforced concrete basement and frame upper floor. WB 1-15

★HEATING SYSTEMS— Portland, Ore.

Award to C. L. Perkins Plumbing & Heating Co., 3051 N.E. Sandy Blvd., Portland, $4,312, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for design and installation of new natural gas-fired heating systems for buildings at U. S. Government Moorings, 8010 N.W. St. Helens Road, Portland; CIVENG-35-026-57-127. Bids opened January 3.

WB 1-16. Previous report 12-18

YMCA REMODELING— Portland, Ore.

Plans to be completed this spring by Whitney, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland, for remodeling in downtown Y.M.C.A., 831 S.W. 6th Ave. Work will include redesign of the third floor into flexible activity space for use by clubs, hobby and craft groups and informal adult classes. Portion of work is being done under direction of the National Y.M.C.A organization. WB 1-16

● ■ PHYSICAL EDUCATION BUILDING— Portland, Ore.

Bids to be opened 2 p. m., January 24, by Oregon Province of Jesuit Fathers, Rev. M. I. Wilhelm, S. J., supervisor of the Jesuit High School, 9000 S.W. Beaverton-Hillside Highway, Portland, for construction of a physical education building at the school. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle.

Planholders: Henry M. Mason Co., 2206 N.W. Thurman St.; Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; A. N. Minden Co., 11320 N.E. Marx St Of Portland

Building, 120'x132', includes 82'x120' gymnasium section with space for 1,000 spectators, and 50'x120' dressing room section. Tilt-up or poured in place concrete construction throughout, except long span joists and wood deck over gym; built-up tar and gravel roof; maple floor in gym; concrete and terrazzo floor in dressing room section; heating from existing central plant; folding bleachers to be installed later. WB 1-16

★ELECTRICAL WIRING— Portland, Ore.

Award to The Tide Co., 829 N. Russell St., Portland, $5,690, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 Courthouse, Portland, for electrical wiring on second floor of courthouse. WB 1-16. Previous report 1-2

★CHURCH— Portland, Ore.

Award to J. W. Hannaman, 2215 S.E. Gladstone St., Portland, $63,890, by Eastminster Presbyterian Church, Byron D. Hughes, pastor, 12508 N.E. Halsey St., Portland, for initial unit of new church plant at 12505 N.E. Halsey St. Plans by Whittier & Fritsch, architects, 301 Dekum Bldg., Portland.

One-story structure includes chapel, fellowship hall with kitchen, toilets and heating room. Wood frame construction with some brick veneer; and some cedar siding; shake roof on chapel; built-up roofing with gravel elsewhere; wood sash; glued laminated arches in chapel; glued laminated beams in fellowship hall; acoustical tile ceilings, except exposed wood in chapel; gypsum board and stained hemlock wall finishes; oil-fired warm air heating; incandescent lighting; septic tank; dry wells; ornamental iron.

WB 1-16. Previous report 7-21

WAREHOUSE-OFFICE BUILDING— Portland, Ore.

(Estimated total cost $250,000)

Construction starting by Monson & Sivers, 5000 S.E. 25th Ave., Portland, on warehouse-office building for May Hardware Co., C. W. Mitchell, general manager, 311 - 317 S.W. Front Ave. Plans by Gordon K. Cochran, architect, 1962 N.W. Kearney St., Portland.

Site is S.E. Grand Ave. and Caruthers St., on former Inman-Poulsen mill property; 106'x200', one-story structure; office portion of 2,500 sq. ft., includes entry, general offices, two private offices, men's and women's toilets, and warehousemen's toilet and office, all on main floor, and lunchroom, toilets and storage room on balcony. Tilt-up concrete construction; bowstring roof; built-up roofing; sprinkler system throughout; steel sash and gas unit heaters in warehouse portion; four truck and two rail overhead wood doors; paged parking area in front; office portion has aluminum window walls and aluminum entrance, asphalt tile flooring, sheetrock wall finish, acoustical tile ceilings and gas-fired hot air heating. WB 1-16

SAW REPAIR SHOP— Portland, Ore.

Bids rejected by Saw Repair & Supply Co., 1037 S.E. Ash St., Portland, for shop building on S.E. 7th Ave. between Mill and Market streets. Plans by Leslie Poole, engineer, 301 Royal Bldg., Portland.

WB 1-16. Previous report 12-26

RESTAURANT REMODELING, EXPANSION— Portland, Ore.

Construction underway by Orville Faulkner, 2534 N.E. Wasco St., Portland, for A. J. Corulle and Frank Yazzalino, owners of the Carmen Restaurant, N.E. 39th Ave. and Sandy Blvd., for remodeling and expansion of fire-damaged restaurant.

One-story addition; block construction; glued laminated beams; solid wood decking; Montana Travertine rubble type exterior wall with glass entry; gas-fired heating system; refrigerated air conditioning, cooling tower on roof; cove interior lighting; large off-street parking area.

WB 1-16. Previous report 11-3

★ROOF GUTTERS— Roseburg, Ore.

Award announced by R. E. Stevens, buyer for Oregon Department of Finance & Administration, Salem, for furnishing and installing new gutters on the barrel roof section of the armory in Roseburg; Inv. No. S-7352-56. Bids opened January 7. AWARD: Wyman L. Smith Roofing Co., 1515 S. 3rd St., Corvallis, $474. 2ND LOW: Tover's Sheet Metal, 806 S.E. Pine St., Roseburg, $694. 3RD LOW: Oakridge Sheet Metal, Oakridge, $876. CI 1-12. Previous report 1-5

MAUSOLEUM— Roseburg, Ore.

(Estimated cost $20,000)

Construction will start later this month by Garden Sanctuaries, Inc., 2751 N.W. Westover Road, Portland, for a mausoleum at the Roseburg Memorial Gardens in Roseburg. Robert A. Dudley is president of the Memorial Gardens. Completion expected by Memorial Day. SC 1-15

★COUNTY SHOP BUILDING— Roseburg, Ore.

Award to Todd Building Co., Box 27, Roseburg, $166,371, by Douglas County Commissioners, Courthouse, Roseburg, for construction of a county shop building on the Diamond Lake Blvd. and Rifle Range Road, just east of Roseburg city limits. Plans by Lyle Glenn, architect, 309 Pacific Bldg., Roseburg. Todd Building Co. was second low bidder but was awarded the contract after John M. Steinmuller, low bidder, claimed an error in his bid.

SP 1-16. Previous report 1-11

AUTO PARTS BUILDING—Roseburg, Ore.

Construction underway by Jack Mathis, general contractor, 351 Hillside Drive, Roseburg, for a new building at 750 S.E. Pine St. in Roseburg, for Orchard Auto Parts, L. M. Orchard, owner, 631 S.E. Rose St., Roseburg. Plans by Kenneth H. Wollenweber, 3260 Kincade, Eugene. Building will be constructed of light weight concrete blocks; 4,400 sq. ft.; 12'x45' show room and shipping and receiving area included; off-street parking; store to be set back 30' from curb.

SC 1-16

★GRADE SCHOOL ADDITION— Sherwood, Ore.

Award to St. Pierre & Vermilyea, Inc., 10505 N.E. Beech St., Portland, $43,949, by School District No. 88-J, Washington County, Floyd C. Shoop, clerk, Sherwood Grade School, Sherwood, for addition to the school. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Addition of four classrooms, teachers' workroom, storage and corridor; wood frame construction; concrete slab floor with asphalt tile flooring; built-up roof; vertical wood siding; aluminum sash window wall with blocks above; plaster walls; acoustical tile ceilings; heating from existing plant with fin tubes and some forced air; recessed, incandescent lighting fixtures.

WB 1-16. Previous report 11-27

LODGE ADDITION, REPAIRS— Timberline Lodge, Ore.

The Portland Chamber of Commerce has announced plans to seek a congressional appropriation of $1,857,000 to finance new construction and repairs at Timberline Lodge and in the Mount Hood National Forest area. The lodge is administered by the forest service and leased to a private operator. Proposal includes $1,206,000 for a new northeast wing for the lodge, $168,000 for camp ground development in the south slope section, $86,000 for trail restoration, and $397,000 for repairs and restoration of the lodge, including remodeling of third floor of attic of east wing, ski chalet and service garage and relocation of the "Magic Mile" chairlift. WB 1-16

WASHINGTON

SCHOOL ADDITION— Ahtanum, Wash.

Working drawings underway for construction of a six-classroom addition to the Ahtanum Valley elementary school at Ahtanum, for West Valley School District No. 208, Harold C. Griffith, superintendent, West Valley High School, Yakima. Plans by Don Gochnour and Ed Marble, architects, Miller Bldg., Yakima.

Brick veneer; 6,000 sq. ft.; glued laminated beams; tin deck; built-up roofing with glued laminated wood mullins; reinforced concrete foundations; plaster interior walls, wood panels; wood lath panels; exposed tin deck ceilings; radiant floor heating system; lavatory in each room, exterior hallway and corridors. IG 1-15. Previous report 12-22

■ SCHOOL— Anacorates, Wash.

Planholders announced for construction of the Fidalgo elementary school, consisting of two units, on Gibralter Road in Anacortes. Bids will be opened 8 p.m., January 25, by Fidalgo School District No. 2, Ken Thibert, clerk, in the office of Arnell I. Johnson, principal, Route 2, Skagit County, Ana-

cortes. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

Planholders—GENERAL: Eiford Construction Co., 357, Bellingham; Newland Construction Co., Box 230, Everett; Odegard Construction Co., Box 735, Everett; A. F. Mowat Construction Co., 2833 Eastlake Ave., Seattle; Phil Anderson, 1110 Riverside, Mt. Vernon; Pearson Construction Co., Box 632, Bellingham; Nelson Construction Co., Box 417, Ferndale; Anderson & Ursin, Sunset Bldg., Bellingham; Farlin J. Sahli, Coupeville; Noel Construction Co., 11014 Main St., Bellevue; Glacier Construction Co., 5536 Coniston Road, Seattle. MECHANICAL: Callahan Plumbing & Heating, 3211 Broadway, Everett; Haskell Plumbing and Heating, 1511 Cornwall, Bellingham; B & B Plumbing & Heating, 501 Commercial, Anacortes; Diamond B Plumbing & Heating, Box 12, Bellingham; Blythe Plumbing & Heating, 1313 Railroad Ave., Bellingham. ELECTRICAL: Tom Dinkins, 1108 Riverside, Sedro Woolley; Howard E. Mills, 1509 Cornwall, Bellingham; Skagit Electric, 1st and Pine, Mt. Vernon; Ferndale Electric, Ferndale; Maier Electric, 6718½ Highway 99, Everett.

SC 1-12. Previous report 1-8

★JUNIOR HIGH SCHOOL— Auburn, Wash.

Awards by Auburn School District No. 408, King County, Rolland C. Upton, superintend, 9420 240th Place S., Auburn for the construction of the five-building junior high school in Auburn. AWARDS—GENERAL: Leavitt Chandler & Co., Box 6, Bellevue, $392,100. MECHANICAL: Boyker Plumbing and Heating Co., 2627 Eastlake, Seattle, $154,130. ELECTRICAL: Mars Electric Co., 800 23rd Ave. S., Seattle, $55,317.

GW 1-15. Previous reports 12-7, 12-19

JUNIOR-SENIOR HIGH SCHOOL— Belfair, Wash.

Mason County School District organization board has approved consolidation of Belfair School District No. 45 and Allyn School District No. 18 as the first step in a long-range program which will eventually include establishment of a new junior-senior high school. The school would be constructed on a 70-acre tract located between Belfair and Allyn on Highway 14A, for which the Belfair district is negotiating. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

SC 1-15. Previous report 7-19

PHANTOM LAKE SCHOOL— Bellevue, Wash.

Bid call is pending state approval for construction of the first phase of the Phantom Lake Elementary School project, consisting of four classrooms. It will be located on 160th S.E., in the Lake Hills area, east of Bellevue. Bids will be called by Bellevue School District No. 400, King County, George B. Brain, superintendent, Box 67, Bellevue. Plans completed by Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle.

One-story; 4,400 sq. ft. classroom area; 950 sq. ft. covered walks; wood frame structure; glued laminated beams; plywood and cedar channel siding; timber deck built-up roofing; luminous ceilings; steel or aluminum sash; interior wall finish of tempered hardboard; asphalt tile flooring; matt glazed block wall surfaces 5' high in toilets; ceramic tile flooring; asphaltic concrete walks and roadway area.

GW 1-15. Previous report 11-16

CHURCH— Bellevue, Wash.

Plans will be completed end of March by Carlson, Ely & Grevstad, architects, 432 Eastlake, Seattle, for construction of a new church building at Lake Washington and Overlake Blvds., in Bellevue, for the First Church of Christ Scientist, Bellevue.

One story with a portion two stories; frame structure; 6,500 sq. ft.; stone and hardwood floors; frame roof; stone and wood siding exterior walls.

GW 1-16. Previous report 7-27

STORE ADDITION— Bellingham, Wash.

Working drawings underway by Arnold R. Wisbeck, architect, 1560 Olive Way, Seattle, for construction of an addition to a supermarket at North and James streets in Bellingham. Bids will be called by G. E. Edquist, owner, in Bellingham.

One-story; frame and stucco walls; flat built-up roof; concrete floor; asphalt tile flooring, acoustical ceiling; gas fired space heaters; flourescent lighting; glass in wood doors.

GW 1-15

SWIMMING POOL, CITY HALL— Chehalis, Wash.

Correction. Bond issue to finance construction of a new city hall in Chehalis was rejected in the November election. No architect has yet been chosen for the swimming pool project for which a bond issue was approved. SP 1-11. Previous report 11-13

MOOSE HALL— Ellensburg, Wash.

Construction underway for the new hall on W. 3rd Ave. in Ellensburg, for the Ellensburg Loyal Order of Moose. The entire downstairs portion of the building will be remodeled for lounge facilities and the second floor will be used for lodge rooms.

SC 1-12

HOUSING UNITS— Ephrata, Wash.

Working drawings underway by John I. Mattson & Associates, architects, Lowman Bldg., Seattle, and 209 W. Division St., Ephrata, for construction of six duplex housing units in Ephrata, four duplexes in Quincy and two in Soap Lake. Bids will be called about March by Grant County Housing Authority, Victory Terrace, Ephrata.

One-story; wood frame slab-on-grade floors; cedar siding; composition shingle roof; electric heating units in Quincy and Ephrata projects, oil heating in Soap Lake.

GW 1-16. Previous repor 8-7

WOOLWORTH STORE EXPANSION— Everett, Wash.

Plans announced by F. W. Woolworth Co., San Francisco, Calif., for expansion of the F. W. Woolworth store at 2824 Colby in Everett, to include the building at the northwest corner of Colby and Everett avenues. Plans call for a complete renovation of the existing building and installation of a new front.

HH 1-16

▲JUNIOR COLLEGE— Everett, Wash.

Bids received by Everett School District No. 4, Auditorium Bldg., Everett, for construction of the new Everett Junior College to be located at 8th and Wetmore streets in Everett. Plans by Harold W. Hall & Associates, architects, 402 Commerce Bldg., Everett. Bids opened January 14. BIDDERS—GENERAL: George Teufel, White-Henry-Stuart Bldg., Seattle, $1,183,500 (base bid), $22,500 (alt. 1), $11,310 (alt. 2); Newland Construction Co., 3302 Hill, Everett, $1,189,000, $23,000, $9,000; James I. Barnes, Central Bldg., Seattle, $1,232,583, $24,500, $16,500. MECHANICAL: Callahan Plumbing & Heating, 3211 Broadway, Everett, $347,700; Glantz Supply, 2723 Hoyt, Everet, $364,424; Haskell Plumbing & Heating, 3014 Wetmore, Everett, $375,486. ELECTRICAL: Rodgers Electric Co., 2805 Hoyt, Everett, $215,576; Industrial Electric, 2701 Hewitt, Everett, $222,500; Ewing Electric., Box 885, Edmonds, $226,633.

HH 1-16. Previous report 1-5

▲AIRMEN'S DORMITORIES— Fairchild AFB, Wash.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of four dormitories and a baseball diamond at Fairchild AFB, Wash.; ENG-45-108-57-74. Schedule A—dormitories 1, 2 and 3. Schedule B—dormitory 4. Schedule C—baseball diamond. LOW BID: J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore., $995,458 (sched. A); $328,099 (sched. B); $73,598 (sched. C); 1,397,155 (total). OTHER BIDS: Phil McInnis and Henry George & Sons, (joint venture), Hutton Bldg., Spokane, $995,532, $344,396, $62,923, $1,402,851; H. Halvorson, Inc., Box 6, Yardley, $1,052,764, $366,952, $62,000, $1,481,717; Selkirk Co., 722 W. 16th, Spokane, $1,409,673, $373,603, $60,060, $1,483,337; James Barnes, 208 Central Bldg., Seattle, $1,044,$368,599, $85,144, $1,498,421; Max J. Kuney, N. 120 Ralph St., Spokane, $1,065,669, $377,$65,370, $1,508,921; Donald M. Drake Co., 1Savier, Portland, Ore., $1,095,507, $382,$58,818, $1,542,615; Grove-Shepherd-Wilson-Kruge, 120 6th Ave. N., Seattle, $1,126,$396,533, $61,179, $1,592,972; Nelse Mortensen & Co., Inc., 1021 Westlake Ave. N., Seattle, $1,129,004, $400,183, $76,127, $1,605,315. Engineer's estimate, $915,162, $318,430, $66,$1,299,825. Bids opened January 9.

GW 1-11. Previous report 12-

STAR LAKE SCHOOL—Federal Way, Wash.
(Estimated cost $375,000.

Bids will be called later this month (tentative) by Federal Way School District No. 210, Kenneth C. Jones, superintendent, Federal Way, for construction of the Star Lake School to be located on 272nd South, about one mile east of Highway 99, Federal Way. Plans by Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma. $25 deposit when bids are called.

SP 1-16. Previous report 11-

★RESIDENCE— Forks, Wash.

Contract negotiated with Herd & Ulin Construction Co., Forks, $40,000, by Russell Thomas, owner, Forks, for construction of a four-bedroom residence in Forks.

One-story; 2,500 sq. ft. including garage space; wood frame with Hampstead cedar siding and stone veneer; cedar shake roof; oil fired hot water heating system.

GW 1-15. Previous report 8-

CHURCH— Kennewick, Wash.
(Estimated cost $250,000)

Working drawings underway by Durham & Freed, architects, 1100 Denny Way, Seattle, for the construction of new church plant at N. Yelm St. and Highway 8, Kennewick. Bids will be called in the spring by Kennewick First Lutheran Church, Fred Miller, chairman of the building committee, and Rev. A. Eidbo, pastor, First Lutheran Church, 5th and W. Bonneville, Kennewick.

One-story, wood frame with native Washington stone and cedar t&g siding exterior; blued laminated beams and arches; partial built-up roof and partial asbestos shingles; concrete slab floors; interior wall finishes mainly of wallboard; exposed ceilings; wood doors.

GW 1-15. Preivous report 9-27

■ HOSPITAL BUILDING— Larson AFB, Wash.

Additional planholders announced on construction of a hospital building at Larson AFB near Moses Lake; ENG-45-164-57-1. Bids will be opened 2 p.m., January 29, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla.

Planholders: J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore.; S. Birch & Sons Construction Co., Central Bldg., Seattle; Leavitt, Chandler & Co., Box 6, Bellevue; B-E-C-K Constructors, 3647 Stone Way, Seattle; George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif.

SP 1-12. Previous report 12-28

▲WAREHOUSE ADDITION— Longview, Wash.

Bids received by Port of Longview, Harvey Hart, port manager, foot of Longview, for construction of an additional warehouse and razing a smaller warehouse on the building site in Longview. Plans by Lawrence B. Rice, architect, 202 Myklebust Bldg., Longview. Bids opened January 8. LOW BID: K. T. Henderson, 1362 Colorado St., Longview, $46,866.

SC 1-11. Previous report 1-4

★BANK— Mabton, Wash.

Award to Hills' Construction Co., 102 S. 5th Ave., Yakima, no amount released, by National Bank of Washington, Central Yakima Branch, Arthur Coffin, manager, 202 W. Yakima Ave., Yakima, for construction of a bank and post office building in Mabton. Plans by Maloney & Whitney, architects, Larson Bldg., Yakima. Bids on this project were rejected as too high late in December. Plans were revised and contract awarded without readvertising bids.

IG 1-16. Previous report 12-28

Our news covers the six Pacific Northwest states and Alaska.

■ **SCHOOL—** **Mercer Island, Wash.**

Additional planholders announced for the construction of Island Park Elementary school on 88th Ave. S.E., north of the county park property on Mercer Island. Bids will be opened 4 p. m., January 22, by Mercer Island School District No. 400, King County (Box 215, Mercer Island), in room 514 at the Mercer Crest School on 86th Ave. S.E. and S.E. 42nd, Mercer Island. Plans with Bassetti & Morse, architects, 1602 Tower Bldg., Seattle. $50 deposit on general plans, $25 on mechanical and electrical. Certified check, cashier's check or bid bond 5%.

Additional planholders—GENERAL: Ness Construction Co., 1125 W. 53rd; John Randall Construction Co., 2520 W. Ray; Brady Construction Co., 707 Spokane; Glacier Construction Co., 5536 Coniston Road; Noel Construction Co., 11014 Main St., Bellevue. MECHANICAL: Thorn & Marble, 4225 23rd Ave. W.; Navarre Plumbing and Heating Co., 3839 Stone Way; Ashwell-Twist, 967 Thomas. ELECTRICAL: Donald W. Close Co., 2921 13th Ave. S.W.; Hooper Electric Co., 215 Marion; Lloyd Larsen Electric Co., 2306 4th Ave. All of Seattle unless otherwise stated. GW 1-12. Previous report 1-4

★ **ELEMENTARY SCHOOL—** **Mesa, Wash.**

Awards announced by Connell Joint School District No. J51-162, Charles Actor, superintendent, Mesa, for construction of an elementary school in Mesa. Plans by George M. Rasque & Son, architects, 303 Washington Trust Bldg., Spokane. AWARDS:—GENERAL: Murray Construction Co., Box 193, Kennewick, $160,815 (including alternates). MECHANICAL: Grant County Plumbing & Heating, Box 1567, Moses Lake, $23,820. ELECTRICAL: Brown-Johnston, Inc., N. 118 Lincoln, Spokane, $44,328.

HH 1-15. Previous report 1-12

JUNIOR HIGH SCHOOL— **Mount Vernon, Wash.**

Preliminary plans to be approved soon by Mount Vernon Consolidated School District No. 320, Skagit County, Wendell T. Phipps, superintendented, 314 9th Ave. N., Mount Vernon, for the construction of a junior college in Mount Vernon. Plans by Hovind Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle. GW 1-16

■ **MEN'S RESIDENCE HALL—** **Olympia, Wash.**

Additional planholders announced for the construction of a men's residence hall at St. Martin's College on Martin Way, Olympia. Bids will be opened 2 p. m., January 25, by Benedictine Fathers, Right Reverend Raphael Heider, O.S.B., president of the corporation of St. Martin's College, Olympia. Plans with Roger Gotteland & Associates, architects, 324 2nd and Cherry Bldg., Seattle. $75 deposit. Certified check, cashier's check or bid bond 5%.

Additional planholders — General: Concrete Construction Co., 2015 Center, Tacoma; Purvis Construction Co., 801 Port of Tacoma Road, Tacoma; Korsmo Bros., 5944 Lake Grove S.W., Tacoma; Brady Construction Co., 707 Spokane, Seattle; Cascade Olympic Construction Co., Route 2, Box 131, Shelton. Mechanical: Rainier Mechanical Contractors, 2702 E. 112th, Tacoma; Addco, Inc., 1117 A, Tacoma; H-K Western, Inc., 1714 S. Tacoma Way, Tacoma; Urban, Inc., 103 S. 28th, Tacoma; Harold Jewell, 1115 N. 12th, Tacoma. Electrical: Larsen Electric Co., 9201 S. D, Tacoma; Electric Construction Co., 1650 Center, Tacoma.

GW 1-12. Previous report 1-5

PRESBYTERIAN CHURCH— **Opportunity, Wash.**

Preliminary plans completed and have been submitted for approval for construction of a Presbyterian church in Opportunity. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane.

SP 1-16

■ **NAVAL FACILITY—Pacific Beach, Wash.**

Additional planholders announced for the construction of Naval Facility buildings at Pacific Beach, 25 miles north of Aberdeen, Wash.; NBy-6594; Spec. No. 6594/56. Bids will be opened 2 p. m., February 5, by 13th Naval District, room 100, building 232, U. S. Naval Station, Seattle. Plans with public works officer, above address. Bid bond 20%.

Additional planholders: Sound Construction and Engineering Co., 1300 Aloha, Seattle; Quality Builders, Inc., Box 1503, Tacoma; DelGuzzi Bros. Construction Co., 1020 E. Front St., Port Angeles; Diversified Builders, Inc., Box 390, Monticello; Wayne Construction Co., 3810 Stone Way, Seattle; Grays Harbor Construction Co., Box 743, Aberdeen; Donald M. Drake Co., 1600 N.W. Savier, Portland, Ore.; S. S. Mullen, Inc., 646 Holgate, Seattle; Milone & Tucci, 3215 S. "M," Tacoma; Manson-Osberg Co., 1132 N. 128th, Seattle; Islands Construction Co., 1103 N. 36th, Seattle; Concrete Construction Co., 2015 Center, Tacoma.

GW 1-12. Previous report 12-18

● **HANGAR LIGHTING—Paine AFB, Wash.**

Bids will be opened 2 p. m., January 29, by U. S. Air Force, Purchasing and Contracting office, Paine AFB for modification and repair of hangar lighting in Bldg. 207 at the base; Inv. No. 45-602-57-27. Specifications with contracting office. Bid bond 20%.

Project involves furnishing equipment and materials and performing work. HH 1-12

SWIMMING POOL, GUEST HOUSE— **Parker, Wash.**

(Estimated cost $7,500)

Project postponed by the owner because of lack of funds for construction of a swimming pool, guest house and attached garage on Lombard Loop in Parker. Plans by Edward Marble, architect, Miller Bldg., Yakima. IG 1-11. Previous report 11-29

▲ **OFFICE BUILDING—** **Pasco, Wash.**

Bids received by Yakima Federal Savings & Loan Co., in the office of the architects, Cowan & Paddock, Larson Bldg., Yakima, for construction of a branch office building at 4th and Clark streets in Pasco. The Yakima office is located at 114 E. Yakima. Bids opened January 11. BIDDERS: Vista Construction Co., 617 S. Vancouver, Kennewick, $68,874; Ed Mardis, 824 W. Lewis, Pasco, $69,638; J. G. Ungerecht & Sons, 911 Park St., Pasco, $73,578.

IG 1-16. Previous report 1-18

ELEMENTARY SCHOOL, GRADE SCHOOL ADDITIONS— **Pullman, Wash.**

(Estimated cost $35,000, Franklin; $300,000, Military)

Bids will be called in the spring by School District No. 307, Louis Bruno, superintendent, High School Building, Pullman, for construction of a nine-room elementary school on Military Hill and construction of a five-room addition to Franklin grade school on Pioneer Heights, Pullman. Plans by McClure & Adkison, architects, 707 Sherwood Bldg., Spokane. State aid is being sought for the projects and it is anticipated that the amount will be known about March 15.

MH 1-11. Previous report 11-7

BOILER CONVERSION— **Pullman, Wash.**

The Washington State College Board of Regents, Pullman, has voted to ask the legislature for an emergency appropriation of $118,000 to finance conversion of boilers Nos. 2, 3 and 4 from coal to natural gas. The Board of Regents announced that they expect WSC would be able to make a reimbursement during the 1957-59 biennium if the appropriation is rushed to permit the conversion by October, 1957. It is estimated that this would take six months and would have to be started by April to meet this schedule. If this is done, the college would make general plans to construct a local distribution system in Pullman during the coming construction season. MH 1-15

CITY HALL— **Richland, Wash.**

(Estimated cost $550,000)

Plans will be complete early next summer for construction of a city hall to be located on a site across the street from the main fire station, Richland, according to the Atomic Energy Commission in Richland. The architect, whose name has not been released, has now planned to move the building back 10' and provide a driveway on a street which would not be as hazardous. This constitutes some changes in design but no change in the previously decided location as given above. The architect also defended his plans for a "split-level" building as more economical than a "campus-type" structure. Construction will begin about a year following completion of plans.

SC 1-11. Previous report 10-30

● **MOVE, CONVERT DORMITORY BUILDINGS—** **Richland, Wash.**

Bids will be opened February 4 by Atomic Energy Commission, Box 550, Richland, for moving two dormitory buildings from Richland to a Hanford production area where they will be converted into office structures. Specifications with above office. Completion time 4 months. The AEC has stipulated that each building can be cut into two or three sections for moving, and

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can be transported overland or by river barge. After they have been moved inside the Hanford barricade, the structures will be set on new concrete foundations with footings and entrance steps at the new sites. The contract will include putting in asphaltic concrete parking lots and sidewalks. Each of the two-story wood frame dormitories, numbers W-17 and W-20, is 120'x33' in size. SP 1-12

JOHN KNOX UNITED PRESBYTERIAN CHURCH— Seattle, Wash.

Preliminary plans complete and ready for presentation to the board for construction of the John Knox United Presbyterian Church in Seattle. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. SP 1-11

APARTMENT BUILDING— Seattle, Wash.

Plans nearing completion by William S. Kelton Co., structural engineers, 317 Queen Anne Ave., Seattle, for the construction of a 10-unit apartment building at 100 E. Boston, Seattle. Sub-bids may be called by Elis Johnson, 9314 40th Ave. N.E., Seattle, owner builder.

Two-story; 57'x53'; frame structure with combination brick veneer and vertical siding exterior; concrete lower floor, oak upper floor; built-up roofing; interior finishes will include wood stairways; plaster walls and ceilings. GW 1-11

CHURCH— Seattle, Wash.

Preliminary plans underway by Clifford B. Dobson, architect, 4115 University Way, for construction of a new church at 142nd Ave. S.W. and Ambaum Road, in the Burien area of Seattle for the 6th and 9th Wards of the Church of Jesus Christ of Latter-Day Saints, office 47 East South Temple, Salt Lake City, Utah. Bids will be called through Seattle Stake Tabernacle Office, 5701 8th Ave. N.E., Seattle. GW 1-11

▲WALL HEATERS— Seattle, Wash.

Bids received by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for installing two gas fired hot air dual recessed wall circulating heaters in the Instruction Area, together with necessary vents, piping and incidental work, within the pier shed at U. S. Coast Guard Captain of the Port Office, Pier 70, Seattle; Inv. No. FS-1519. LOW BIDS: L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., $628; Heating and Wiring Installers, 3612 1st Ave. S., $685; Napier & Scott, 1927 4th Ave. S., $690. All of Seattle. Bids opened January 9.
GW 1-11. Previous report 1-2

★AUTOMATIC HEATING CONTROL— Seattle, Wash.

Award by 13th Naval District, room 100, Building 232, U. S. Naval Station, Seattle, for automatic heating control for 12 buildings at the U. S. Naval Station in Seattle; NBy-6597; Spec. 6597/56. AWARD: L. E. Ballou, 5801 14th Ave. N.W., $16,380. OTHER BIDS: Selo Electric Co., 1050 N. 38th, $17,400; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., $17,600; West Coast Heating and Plumbing Co., 4125 9th Ave. N.W., $18,550; Boyker Plumbing and Heating Co., 2627 Eastlake, $20,167; Thorn & Marble, 4225 23rd Ave. W., $22,879; Furnace Construction Co., Box 634, Redmond, $23,115; The Ballard Co., 1537 Ballard Way, $23,975. All of Seattle unless otherwise stated.
GW 1-12. Previous report 12-22

★CPO CLUB DEMOLITION—Seattle, Wash.

Award to Matheny & Bacon, Inc., 1701 4th Ave., S., Seattle, $694 (item 2, in which the Navy will pay contractor for the demolition), by 13th Naval District, room 100, Building 232, U. S. Naval Station, Seattle, for the demolition of and/or the removal of the one-story frame CPO club, building No. 12, Seattle; NBy-6596; Spec. No. 6596/56.
GW 1-12. Previous report 12-20

●VINYL TILE— Seattle, Wash.

Bids to be opened 2 p. m., January 24, by Seattle Housing Authority, Charles W. Ross, executive director, Procurement Office, 825 Yesler Way, Seattle, for furnishing approximately 30,000 sq. ft. of $\frac{1}{16}$x9x9 vinyl type floor tile, for the various housing projects in Seattle. Specifications with procurement office, above address. GC 1-12

▲SPAR MILL FACILITY— Seattle, Wash.

Bids received by Boeing Airplane Co., 7752 E. Marginal Way, Seattle, for alterations to an existing building at Diagonal Ave. and E. Marginal Way, to provide spar mill facilities. Plans by Harmon, Pray & Detrich, architects and engineers, 719 Lloyd Bldg., Seattle. LOW BID: Sound Construction and Engineering Co., 1300 Aloha, $2,355,346. OTHER BIDS: Cawdrey & Vemo, 3601 Fremont, $2,497,239; J. C. Boesplug Construction Co., 1219 4th Ave. S., $2,524,000; Manson Construction and Engineering Co., 5209 E. Marginal Way, $2,978,000; S. S. Mullen, Inc., 646 Holgate, $3,084,256. All of Seattle. Bids opened January 10.
GW 1-12. Previous report 12-28

■CATHOLIC CHURCH— Seattle, Wash.

Additional planholders announced for the construction of the new St. Edwards church at Orcas and 42nd Ave. S.W., Seattle. Bids will be opened 2 p. m., January 23, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Certified check, cashiers check or bid bond 5%.

Additonal planholders: Henrik Valle Co., Inc., Box 9083, Queen Anne Station, Seattle; Covey-Hufeisen, 815 3rd Ave. N., Seattle.
GC 1-12. Previous report 12-7

SAFEWAY STORE— Seattle, Wash.
(Estimated cost $150,000)

Plans complete for construction of a Safeway store at 7400 Bothell Way, near E. 74th St. and Roosevelt Way, in Seattle, for Safeway Stores, Inc., 1203 E. 65th St., Seattle. Plans by Harold W. Hall & Associates, architects, 402 Commerce Bldg., Everett. Concrete block walls; 103'x175'; slab-on-grade; stone veneer; plate glass in metal sash; glued laminated girders and beams on heavy pipe columns. SC 1-15

▲DISTRIBUTION GARAGE AND WAREHOUSE— Seattle, Wash.

Bids received by Glaser Beverages Inc., Paul Glaser, president, 351 Elliott Ave. W., Seattle, for construction of a garage and warehouse at 816 Adams St., Seattle. Plans by Alban A. Shay, architect, Skinner Bldg. LOW BIDS: Hugh S. Ferguson Co., 1927 4th Ave. S., $129,520. OTHER BIDS: John H. Sellen Construction Co., 228 9th Ave. N., $130,868; B-E-C-K Constructors, 3647 Stoneway, $132,727; W. G. Clark Co., 408 Aurora, $133,800; Cawdrey & Vemo, 3601 Fremont, $140,752; Henrik Valle Co., Inc., 413 3rd Ave. W., $155,581; Lease Co., Inc., 1501 N. 35th, $163,300. Bids opened January 11. All of Seattle. GW 1-15. Previous report 1-5

★SUNSET JUNIOR HIGH SCHOOL— Seattle, Wash.

Awards by Highline School District, No. 401, King County, Carl Laudenbach, business manager, Administration Bldg., 253 S. 152nd, Seattle, for construction of the Sunset Junior High School at Des Moines Way and 136th Ave. S.W., Seattle. AWARDS—GENERAL: George E. Teufel Co., White Henry Stuart Bldg., Seattle, $689,150 (including alternates). MECHANICAL: George H. Lucken Plumbing and Heating Co., 922 Leary Way, Seattle, $232,300. ELECRICAL: Mars Electric Co., 800 23rd Ave. S., Seattle, $76,439. Awards are tantamount to state approval. GW 1-15. Previous report 1-10

WAREHOUSE— Seattle, Wash.
(Estimated cost $190,000)

Contract will be awarded to Monson & Sivers, 5000 S.E. 25th Ave., Portland, for construction of a warehouse at 4225 2nd Ave. S. in Seattle, for Lowman & Hanford Co., 1515 2nd Ave., Seattle. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland.

One-story; 219'x240', 52,000 sq. ft.; concrete and frame; slab on fill; reinforced concrete foundations; reinforced concrete tilt-up walls; wood posts; glued laminated beams and wood purlins. SC 1-16

●SUNSET ELEMENTARY SCHOOL— Seattle, Wash.

Bids to be opened 8 p. m., February 7, by Shoreline School District No. 412, King County, Myron Ernst, secretary, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for construction of the Sunset Elementary School at W. 178th and 10th Ave. N.W., Seattle. Plans with Young, Richardson & Carleton, architects, 521 Central Bldg., Seattle. $50 deposit on general, $25 each on mechanical and electrical plans. Certified check, cashier's check or bid bond 5.

One-story; 28,750 sq. ft.; steel and wood frame; t&g roof decking; built-up roofing; wood joists and floors; plasterboard interior wall finish; acoustical ceilings; wood doors; chalk and tack boards; low pressure steam heating system from oil fired boiler. The structure will have four wings connected by covered asphaltic concrete walkways.
GW 1-16. Previous report 16-[illegible]

▲BOILER, INCINERATOR— Seattle, Wash.

Bids received by South Central School District No. 406, Frank Horsfall, clerk, 142nd 42nd Ave. S., Seattle, for furnishing and installing a new boiler adjacent to the existing one and an incinerator, at Showalter Elemenary school, 4628 S. 144th, Seattle. Plans by Stanley G. Webster, mechanical engineer, Lowman Bldg., Seattle. LOW BIDS—Boiler: Fraser's Boiler Service, Inc., 703 Dearborn, Seattle, $15,974; Boyker Plumbing and Heating Co., 2627 Eastlake, Seattle, $16,850; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $17,382. Incinerator: National Blower and Sheet Metal Co., 1129 St. Paul, Tacoma, $500; Tillikum Distributors (Burn-rite Incinerator Co.,) 25925 Pacific Highway S., Kent, $570; Bradley-Zesbaugh, Inc., White-Henry-Stuart Bldg., Seattle, $690; Departee Co., 618 Eastlake, Seattle, $940. Low bidders will be recommended for awards at next meeting January 21. Bids opened January 14.
GW 1-16. Previous report 1-[illegible]

★FIRE STATION— Seattle Heights, Wash.

Award to Max Ford Construction Co., Monroe, $3,982, by Fire District No. 1, Commissioners, Seattle Heights, Snohomish County, Wash., for construction of a double stall frame building to be located at 88th Ave. W. at 231 St. S.W. in Seattle Heights. Bids opened January 11.
HH 1-16. Previous report 12-[illegible]

■IRRIGATION DISTRICT OFFICE BUILDING— Sunnyside, Wash.

Additional planholders announced for construction of a new irrigation district office building at 13th and Blain avenues in Sunnyside. Bids will be opened 10:30 a. m., January 24, by Roza Irrigation District, Rose Murray, secretary, Airport Ranch, Sunnyside. Plans with Don Gochnour, architect, Miller Bldg., Yakima.

Planholders—GENERAL: Cecil Hill, 1608 W. 9th, Kennewick; Stoops & Sons, 210 Buena Way, Toppenish; Jake Leingang, 11 Elgin Drive, Yakima; Vista Construction, Inc., 617 S. Vancouver, Kennewick; Hale Construction Co., Box 782, Pasco; Al Kokenge, 4820 Avalanche Ave., Yakima. HEATING: Shelby Sheet Metal, Division St., Grandview; Johns Tin Shop, 610 Decatur, Sunnyside; Sunnyside Sheet Metal, 7th St., Sunnyside; Yakima Sheet Meal, 9 N 6th Ave., Yakima; Lentz-Interstate Plumbing & Heating, 12 S. 3rd Ave., Yakima; Toppenish Sheet Metal, Route 1, Box 12, Fort Road, Toppenish; Rovig-Dittmar, Inc., 112 W. Walnut St., Yakima.
IG 1-11. Previous report 1-[illegible]

ANNIE WRIGHT SEMINARY ADDITION— Tacoma, Wash.
(Estimated cost $250,000)

Construction will start soon by MacDonald Building Co., 1517 S. Tacoma Way, Tacoma, for a classroom wing at the Annie Wright Seminary, 827 N. Tacoma, Tacoma. Plans by John H. Sutton, architect, Rust Bldg., Tacoma, and Lea, Pearson & Richards, associate architects, 240 S. Stadium Way, Tacoma. Rt. Rev. Stephen Fielding Bayne, Jr., bishop of the Episcopal Diocese of Olympia, is chairman of the Board of the Annie Wright Seminary Foundation and

president of the Board of the Annie Wright Seminary. Ruth Jenkins is headmistress. Completion of the addition is expected by November 1.

The new wing will include a covered play area and music studio on the ground floor, four classrooms on the first floor, and an assembly room, activity room, faculty lounge and kitchen on the second floor. A library wing will be added to the seminary when funds are available. SC 1-11

MARINE FIRM EXPANSION— Tacoma, Wash.

Arne Strom of Tacoma Boatbuilding Co., Inc., 132 Sitkum Waterway, and Dave Conrad of Tacoma Marine Supply, Port of Tacoma Road, Tacoma, have formed a partnership for immediate expansion of the Tacoma Marine Supply firm. Workmen will clean the site at 759 Port of Tacoma Road, known as Tacoma Boat's Plant No. 2, preparatory to a remodeling job which will make the expanded store and facility available before spring. Dry boat storage space is expected to be ready by February 1. Plans call for a complete small boat facility with an expanded stock of hardware and other marine supplies, boat showrooms, initial dry storage for at least 200 boats and an elevator launching arrangement on the face of the plant, opposite the Port of Tacoma's fishing boat haven on Pier 3. Parking space for 75 cars is also planned. SC 1-11

■H. F. HUNT JUNIOR HIGH SCHOOL— Tacoma, Wash.

Planholders announced for construction of the H. F. Hunt junior high school at S. 8th and Mildred streets in Tacoma. Bids will be opened 3 p.m., January 29, by Tacoma School District No. 10, Carl G. Caddey, secretary, 5th floor, School Admin. Bldg., Tacoma. Plans with Robert Billsbrough Price, architect, and Robert M. Jones, associate, 2907 A St., Tacoma.

Planholders—GENERAL: Standard Construction Co., 315 E. 25th; Ostruske-Murphy, 1515 Center; Anderson Construction Co., 115 S. 9th; Dolph Jones, 2213 N. Proctor; Quality Builders, Box 1103; Northern Construction Co., 729 Port of Tacoma Road; H. Halvorson, Inc., 20054 Pacific Highway South, Seattle. MECHANICAL: Weber Plumbing & Heating, Inc., 110 N. Tacoma; Howard Chapman, 2145 S. K St.; Rainier Mechanical Contractors, 2702 E. 112th; Bay Co., 1215 Center; H. K. Western; Harold Jewel, 7010 N. 13th; Addco, Inc., 1117 A St.; Urban, Inc., Box 1142. ELECTRICAL: Washington Electric, 5235 S. Tacoma Way; Carl T. Madsen, Box 1545; Tide-Bay Co., 1512 Center; Home Electric Co., 2212 A St.; Glassy-Roth Electric, 221½ S. 38th St. All of Tacoma unless noted.

SP 1-15. Previous report 1-5

RESIN PLANT— Tacoma, Wash.
(Estimated cost $250,000)

Construction will start as soon as possible for a synthetic resin plant on a four-acre tract in the industrial development district of Tacoma, by Balfour Guthrie & Co., Ltd., Milwaukee Ocean Dock No. 2, Tacoma. The resin is to be used as an adhesive by Pacific Northwest plywood industries. SC 1-16

●SCHOOL (Mechanical Contract)— Tumwater, Wash.

Bids rejected. Bids will be opened 8 p.m., January 30, by Tumwater School District No. 333, Thurston County, Box 98, Tumwater, for the mechanical contract included in construction of a 12-room grade school on Dennis Road in Tumwater. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett. $15 deposit. General and electrical contracts on this project are still pending award.

HH 1-15. Previous report 1-8

▲GYMNASIUM— Walla Walla, Wash.

Bids received by G. Lee Sandritter, M.D., acting director, Department of Institutions, in the Administration Bldg. at Washington State Penitentiary, Walla Walla, for construction of an addition and alterations to the dining room and kitchen building to provide a gymnasium at the penitentiary. Plans by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane. Bids opened January 8. LOW BID: Sceva Construction Co., Inc., N. 2928 Madelia, Spokane, $69,266 (base bid), $2,186 (alt. 1 add, furnish basketball backstops), $1,075 (alt. 2 add, furnish steel lockers and boxing ring), $2,826 (alt. 3 add, furnish automatic electric scoreboard). OTHER BIDDERS: Jensen & Rasmussen, Box 89, Sunnyside, $77,500, $2,175, $1,525, $2,800; Murray Construction Co., Box 193, Kennewick, $84,400, $3,400, $650, $2,800; Purvis Construction Co., Box 64, Yardley, $85,335, $2,175, $1,108, $2,805; Ruud Construction Co., 602 Realty Bldg., Spokane, $93,860, $2,395, $1,220, $3,085.

SP 1-11. Previous report 1-2

SPRAY PLANT ADDITION—Yakima, Wash.
(Estimated cost $9,000)

Construction underway by W. M. Yeaman, general contractor, 601 S. 1st St., Yakima, for an addition to the Yakima Valley Spray Co. at 1108 S. 1st St. in Yakima. Structure will be concrete block with flat mop roof, concrete floors and exposed masonry interior walls. IG 1-11

■GYMNASIUM, RECREATION CENTER— Yakima, Wash.

Additional planholders announced for construction of a multipurpose building containing a combination gymnasium and recreational center at St. Paul's Parish on Minnesota Ave. in Yakima. Bids will be opened 2 p.m., January 24, by Roman Catholic Church Diocese of Yakima, Most Rev. Joseph Dougherty, Liberty Bldg., Yakima. Plans with Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima.

Planholders—GENERAL: Cusick Construction Co., Box 652, Wenatchee; V. K. Powell Construction Co., Wapato. MECHANICAL: Thompson Plumbing & Heating, 106 N. 5th Ave.; Nagler Sheet Metal, 1817 S. 1st St.; J. M. Co., 515 W. Yakima Ave.; Central Plumbing & Heating Co., 510 S. 1st St.; Valley Plumbing & Heating Co., 609 W. Yakima Ave.; Dopps & Banks, 608 W. Lenox Ave. ELECTRICAL: Creamer Electric, 1902 Nob Hill Blvd.; Smith Electric, 3611 Main St., Union Gap. All of Yakima unless otherwise noted. IG 1-11. Previous report 1-8

RESIDENCE— Yakima, Wash.
(Estimated cost $25,000)

Working drawings underway for construction of a new residence on Sunset Drive in the Uplands Addition, Yakima, for Cecil Ripley, 2 N. 32nd Ave., Yakima. Plans by Champ Sanford, designer, 602 S. 5th Ave., Yakima.

Full basement; brick veneer; composition roof; concrete floors; poured concrete foundation; hardwood, vinyl tile and cork flooring; wood lath with plaster interior walls; wood lath and plaster partitions; plaster ceilings; aluminum sash; two fireplaces; forced air heating systems, oil fuel. IG 1-16

IDAHO

★RESIDENCES— American Falls, Idaho

Award to L & R Falter, west of Pocatello, $25,612, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of two dwelling buildings in American Falls for Bureau of Reclamation personnel; Spec. No. 100C-270.

SP 1-15. Previous report 12-14

SALVATION ARMY HALL—Caldwell, Idaho
(Estimated cost $11,000)

Plans approved by the building committee of the advisory board of the Salvation Army Corp., 220 N. 6th Ave., Caldwell, for construction of a meeting hall at the site of the existing building in Caldwell. Plans call for a 25'x64' one-story building at the basement site. SC 1-12. Previous report 10-19

●■HOT CELL AREA— Idaho Falls, Idaho
(Estimated cost $500,00)

Bids will be opened 3 p.m., February 8, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of hot cell area at the ANP Project, National Reactor Testing Station, Idaho; Inv No. AT(10-1)-873. Specifications with above office. Completion time 240 calendar days.

Planholders: Arrington Construction Co., Inc., Box 881, Idaho Falls; Quinney Construction Co., 1474 S. 6th West, Salt Lake City, Utah; H. G. Carl Construction Co., Box 387, Salem; Nelson Bros. Construction Co., 437 W. 16th South, Salt Lake City; Dresser-Ideco Co., 875 Michigan Ave., Columbus, Ohio; Hurley Construction Co., 403 S. Robert St., St. Paul, Minnesota; Paul Hardeman, Inc., 10955 W. Pico Blvd., Los Angeles, Calif., and Box 75, Idaho Falls; Anderson Burke Co., 2114 Thorndyke, Seattle; Farnsworth & Chambers Co., Inc., Box 74, Houston, Texas; Sierra Construction Corp., 2137 S. Industrial Road, Las Vegas, Nev.; Okland Construction Co., 2261 Oneida St., Salt Lake City; Manco Construction Co., 3754 Long Beach Blvd., Long Beach, Calif.; C. W. Watkins & Son, Box 1786, Boise; Teller Construction Co., Box 435, Idaho Falls.

Project includes the following: 1—Construction of a building 50'x106' with wall height of 16'; reinforced concrete grade beam and drilled pier foundations; structural steel frame; pumice block walls; steel roof deck, roof insulation and 5-ply built-up roofing with gravel. Features of building include hot cells constructed of high density concrete having wall thicknesses of approximately 3'. Cells will have high density lead glass viewing windows. Also included are 5-ton monorail hoist; three 100 lb. capacity bridge cranes; heating, ventilating, cooling and exhaust air systems; compressed air system including air dryer; vacuum cleaning system, high vacuum system; intercommunication system; extension of existing alarm system; plumbing, process piping and electrical systems. 2—Certain modifications to existing Pool Area of Bldg. ANP-607 including installation of a 30-ton bridge crane with related rails and beams, and modification of lighting and ventilation systems. 3—Construction of extensions and modifications to existing utilities and facilities in the yard area including water, sewer and waste lines; site grading; and relocation of gravel-surface driveways.

SP 1-15. Previous report 12-12

▲HOSPITAL BUILDING, UTILITIES— Mountain Home AFB, Idaho

Bids received by Corps of Engineers, Walla Walla District, 602 City-County Airport, Walla Walla, for the construction of a hospital building and utilities at Mountain Home AFB., Idaho; ENG-45-1064-11. BIDS: Garff, Ryberg & Garff Construction Co., 850 W. 15th N., Salt Lake City, Utah, $1,965,480; Donald M. Drake Co., 1600 N.W. Savier, Portland, Ore., $2,036,476; H. Halvorson, Inc., Box 6, Yardley, Wash., $2,047,317; C. W. Watkins & Son, 3319 Wilbur, Boise, $2,080,222; Sound Construction and Engineering Co., 1300 Aloha, Seattle, Wash., $2,080,444. Bids opened January 15.

GW 1-16. Previous report 12-7

▲GAP FILLER FACILITIES— Waha AF Station, Idaho

Bids recived by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of gap filler facilities at Waha AF Station, Idaho; ENG-45-108-57-93. LOW BID: Lindbrook Construction Co., 117-38 35th Ave. N.E., Seattle, Wash., $64,766. OTHER BIDS: The Timber Co., 2150 N. 1st Hermiston, Ore., $67,999; Valley Nason Contractors, 13453 24th Ave. S., Seattle, Wash., $70,511; H. Halvorson, Box 6, Yardley, Wash., $78,308. Engineer's estimate, $67,296. Bids opened January 14.

GW 1-15. Previous report 1-8

MONTANA

APARTMENT BUILDING— Billings, Mont.

Plans underway for construction of an apartment building project for married students at Eastern Montana College of Education, Billings. Plans by Loners & Stroebe, architects, 418 N. 25th St., Billings. The

project will have three separate buildings to be located beneath the rim, east of the airport road and on the northeast corner of the campus. There will be a 25' areaway between the buildings. The two buildings to the west will contain one-bedroom apartments and the other unit will contain two-bedroom apartments. There will be 60 units in the entire project, housing 120 adults and up to 80 children. All units will have balconies along the front. There will be landscaping and a play area with retaining wall and fence for children. Central laundry facilities will be located in each building and each apartment will have its own furnace and water heater. Parking areas will be constructed in the rear.

SC 1-11. Previous report 8-9

★PAINTING ROOMS— Billings, Mont.

Award to Reynard & Co., 741 Custer Ave., Billings, $750, by City Council, City Hall, Billings, for painting certain rooms in the Billings City Hall. Bids opened January 3.

EE 1-15. Previous report 12-21

▲ELEMENTARY SCHOOL— Circle, Mont.

No bids received by McCone School District No. 1, Circle, for construction of a six-room elementary school at Circle. Bids were to have been opened January 7.

SP 1-15. Previous report 12-19

●JET TEST CELL— Glasgow AFB, Mont.

Bid opening extended from January 16 to 2 p.m., January 24, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for construction of a jet cell and related facilities at Glasgow AFB, near Glasgow, Valley County, Mont.; ENG-45-614-57-16. Specifications with above office.

SP 1-11. Previous report 1-5

▲WAREHOUSE— Great Falls, Mont.

Bids received in the office of Davidson & Kuhr, architects, 104 4th St. N., Great Falls, for construction of a warehouse building in Great Falls, for Auto Wrecking House, Inc., of Great Fals. Bids opened January 4. GENERAL—LOW BID: Leigland Co., Box 1862, $70,611. OTHER BIDDERS: J. E. Beaulaurier & Sons, Box 2106, $71,500; Sletten Construction Co., Box 1188, $72,330; Burt Talcott, Builder, 2600 9th Ave. N., $74,320; J. Jones, Contractor, Inc., 3910 7th Ave. S., $74,498; Palmer Construction Co., 1324 Central Ave. W., $75,869; Dick Olson Constructors, Inc., 2301 Central Ave. W., $76,980; C. E. Mitchell & Sons, 308 4th Ave. S., $87,622; Lee C. Nelson, 3449 7th Ave. S., $83,560 (base bid), $1,380 (alt. 1 ded.); Mel Buck Construction Co., 401 1st Ave. S., $98,121 (base bid), $3,500 (alt. 1 ded.). MECHANICAL: Hodges & Son, 816 20th St. N., $5,759; Central Plumbing & Heating, 923 Central Ave. W., $6,362; Edwin Johnson Plumbing & Heating, 117 Central Ave., $6,542; Pinski Bros., 1020 Central Ave., $7,344. ELECTRICAL: Cascade Electric, 903 10th Ave. S., $6,975; Rowe Electric, 410 1st Ave. S., $7,174; Goggans & Pennie, 1106 Central Ave., $7,280. All of Great Falls.

SP 1-12. Previous report 1-3

★ELECTRONICS BUILDING— Great Falls, Mont.

Award to Dick Olson Constructors, Inc., 2301 10th Ave. S., Great Falls, $58,880, by 13th Naval District, room 100, Building 232, U.S. Naval Station, Seattle, for construction of an electronics building at the U.S. Naval Reserve Electronics Facility in Great Falls; NBy-6573; Spec. No. 6573/56.

GW 1-12. Previous report 12-22

▲STORE, OFFICE AND WAREHOUSE BUILDING— Great Falls, Mont.

Bids received in the office of the architects, for construction of a store, office and warehouse building in Great Falls, for W. P. Fuller & Co., 618 Central Ave., Great Falls. Plans by George H. and Frank B. Shanley, architects, 201 Barber-Lydiard Bldg., Great Falls. Bids opened January 8. LOW BIDS—GENERAL: Palmer Construction Co., 1324 Central Ave. W., $71,357 (base bid), $1,432 (alt. 1), $500 (alt. 2); Burt Talcott Builders, 2600 9th Ave. N., $71,900, $1,045, $700; J. Jones, Contractor, 3910 7th Ave. S., $75,239, $1,050, $260; Sletten Construction Co., Box 1188, $75,490, $1,589, $500; Leigland Construction Co., Box 1862, $76,270, $964, $200; Dick Ilson, Contractor, 2301 10th Ave. S., $76,988, $1,260, $468; J. E. Beaulaurier & Sons, Box 2016 $78,495, $1,110, $320; Zion Construction Co., 3016 5th Ave. N., $80,492, $1,087, $188; Grant Canoy, 1324 Central Ave., $126,680, $700, $660. MECHANICAL: Edwin Johnson Plumbing & Heating Co., 117 Central Ave., $5,457; Mehl Plumbing Co., 812 Central Ave., $5,945; Central Plumbing & Heating Co., 923 Central Ave., $6,351; Pinski Bros., 1020 Central Ave., $7,486. ELECTRICAL: Palmquist Electric, 607 Central Ave., $8,430 (base bid), $296 (alt.); Cascade Electric Co., 905 10th Ave. N., $8,665, $247; Rowe Electric, 410 1st Ave. S., $8,674, $240; Rainbow Electric, 2220 River Drive, $9,132, $413; Goggans & Pennie, 1106 Central Ave., $9,175, $324. SPRINKLER SYSTEM: Viking Automatic Sprinkler Co., 1120 8th Ave. S., Seattle, Wash., $6,104 (base bid), $390 (alt.); Grinnell Co. of the Pacific, E. 909 Sprague, Spokane, Wash., $6,461, $240; Automatic Sprinkler Corp. of America, 210 W. Idaho, Seattle, $6,695, no bid; Rushlight Automatic Sprinkler Co., 2437 Market, Seattle, $6,919, $378. Of Great Falls unless noted.

SP 1-15. Previous report 1-5

CHURCH EXPANSION— Missoula, Mont.

Plans announced by First Presbyterian Church, Rev. Richard J. Jones, pastor, 201 S. 5th West, Missoula, for a remodeling program in the church as an initial step in an expansion program which includes an education building. The basement of the church will be remodeled to provide two large rooms for the primary and kindergarten departments of the Sunday school. The church has purchased a house at 235 S. 5th St. E., at the west end of the block as the site for a future education building.

SC 1-11

ARMORY— Whitefish, Mont.
(Estimated cost $85,000)

Plans proposed by Adjutant General S. H. Mitchell, Montana National Guard, Fort Harrison, for construction of a National Guard armory northeast of the Baker Street bridge in Whitefish, for the local Guard unit, Battery A of the 639th Field Artillery. The project will proceed if the Montana legislature in its current session provides 25% of the necessary funds. The federal government would provide 75% of the construction funds. The City Council, City Hall, Whitefish, is prepared to deed the site for the armory, the location of which is mentioned above.

RB 1-15

▲ELEMENTARY SCHOOL— Wyola, Mont.

Bids received by Big Horn County School District No. 29, Wyola, for construction of an elementary school building at Wyola. Plans by Drake & Gustavson, architects, Empire Bldg., Billings. Bids opened January 9. LOW BID: Frates Construction Co., Box 365, Sheridan, $214,000. OTHER BIDDERS: Julien Construction Co., Newcastle, Wyo., $216,000; Husman Bros., 1200 Big Horn Ave., Sheridan, Wyo., $225,950; J. C. Boespflug Construction Co., 502 N. 25th St., Billings, $226,091; Wells Bros. Construction Co., 704 Dunham Ave., Billings, $229,984; Lowe Construction Co., 2325 9th Ave. N., Billings, $232,500.

EE 1-15. Previous report 12-21

▲TEACHER HOUSING— Wyola, Mont.

Bids received by Big Horn County School District No. 29, Wyola, for remodeling the existing Wyola grade school to provide three teacher appartments. Plans by Drake & Gustavon, architects, Empire Bldg., Billings. Bids opened January 9. LOW BID: Julien Construction Co., Box 889, Newcastle, Wyo., $15,400. OTHER BIDDERS: Wells Bros. Construction Co., 704 Dunham Ave., Bills, $229,984; Frates Construction Co., 424 Rimrock Road, Billings, $15,646; Husman Bros. Construction Co., 1200 Big Horn Ave., Sheridan, Wyo., $17,750; J. P. Boesplug Construction Co., 502 N. 25th St., Billings, $24,350; Lowe Construction Co., 2325 9th Ave. N., Billings, $27,500.

EE 1-15. Previous report 12-12

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

WYOMING

●SOUTHRIDGE ELEMENTARY SCHOOL— Casper, Wyo.

Bids will be opened 8 p.m., January 2[illegible] by School District No. 2, Natrona County, Casper, for construction of the six-classroom Southridge elementary school in Casper. Plans with John Pellegren, architect, 508 E. Yellowstone, Casper. $25 deposit. Bid bond 5%. Separate bids on general, mechanical and electrical contracts.

SC 1-[illegible]

★PRINTING PLANT ADDITION— Cheyenne, Wyo.

Award to Riedesel-Lowe Construction Co., Box 914, Cheyenne, no amount released, by Tribune Eagle Co., Tracy S. McCracken, publisher, 110 E. 17th, Cheyenne, for construction of an addition to the printing plant at the above address. One-story; 20'x70'; brick and glass; will provide for mailing facilities, storage and pressroom.

LY 1-[illegible]

▲BATH, PLUNGE— Fort Washakie, Wyo.

Bids received by Joint Business Council, Arapahoe and Shoshoni Tribes, Fort Washakie, for construction of a bath and plunge on Wind River Indian Reservation at Fort Washakie. Plans by Tresler & McCall, architects, 1276 Sheridan Ave., Cody. Bids opened January 9. LOW BID: Chambers & Freese, Box 748, Lander, $147,600. OTHER BIDDERS: Edward M. Anesi, Box 278, Lander, $148,427; Louis B. Welch, Box 176, Casper, $157,400; Lane-Owens Co., Box 200, Casper, $159,500; N. A. Nelson, Box 644, Sheridan, $162,000, (alt. $6,000 add); Max W. Dudley, Box 668, Riverton, $163,628; Continental Construction Co., 1509 Carbon Ave., Cheyenne, $165,500; Husman Bros., Inc., 1200 Big Horn Ave., Sheridan, $169,989.

SP 1-12. Previous report 1-[illegible]

▲SCHOOL ADDITIONS— Crowhart, Morton, Wyo.

Bids received by School District No. 2[illegible] R. C. Schafer, superintendent, Fremont County, Morton, for construction of additions to Morton and Crowhart schools. Plans by Goodrich & Wilking, architects, 226 E. 2nd, Casper. Bids opened January 7. LOW COMBINED BIDS: Continental Construction Co., 1509 Carbon Ave., Cheyenne, $187,756; Dougherty & Novotny Construction Co., Box 1841, Casper, $199,990; Garton & Garton, 1928 E. 18th, Cheyene, $207,180. CROWHART SCHOOL—LOW BIDS: Continental Construction Co., Cheyenne, $60,751; Goodrich Construction Co., Wheatland, $64,700; Dougherty & Novotny, Casper, $67,597. MORTON SCHOOL—LOW BIDS: Continental Construction Co., Cheyene, $126,999; Dougherty & Novotny Construction Co., Casper, $137,957; Garton & Garton, Cheyenne, $143,882.

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

UTAH

●HEATING PLANT— American Fork, Utah

Bids will be opened 2 p.m., January 2[illegible] by Utah State Building Board, Jerry G. King, superintendent of construction, 411 State Capitol Bldg., Salt Lake City, for furnishing and installation of an underfeed stoker-fired boiler for the heating plant at the Utah State Training School in American Fork. Specifications with above office. $2[illegible] deposit. Bid bond 5%.

SC 1-[illegible]

★COMFORT STATIONS— Bryce Canyon, Utah

Award to Witt Construction Co., 1487 S. State St., Provo, $23,770, by National Park Service, Western Office, Division of Design and Construction, 1000 Geary St., San Francisco, Calif., for construction of two comfort stations at the Headquarters Campground, Bryce Canyon National Park, Bryce Canyon, Utah; Proj. No. B-12. Bids opened December 11 and were held under advisement.

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

MEN'S HOUSING— Cedar City, Utah

The Federal Housing & Home Finance agencies have approved a $250,000 loan for construction of housing for 200 men at the College of Southern Utah in Cedar City.
SC 1-11

SEMINARY BUILDING—Cedar City, Utah
(Estimated cost $60,000)

Preliminary plans underway for construction of a new seminary building for Cedar City LDS Stake, Cedar City. Plans by L. Robert Gardner, architect, 173 S. 200 West, Cedar City. One-story; brick walls; to provide three classrooms. GH 1-16

SOUTH ELEMENTARY SCHOOL— Cedar City, Utah

Preliminary plans underway for construction of the 14-classrooms South Elementary School in Cedar City, for Iron County School District, Ianthus Wright, superintendent, Cedar City. Plans by L. Robert Gardner, architect, 173 S. 2nd West, Cedar City.
GH 1-16

LIME MILL— Delle, Utah
(Estimated cost $3,000,000)

Gravel crushing underway by England Bros., general contractor, Bo 478, Tooele, for a concrete building included in the construction of a lime mill three miles northwest of Delle, on U. S. Highway 40, Tooele County, Utah, for Marblehead Lime Co., Wallis E. Wing, chairman of the board, Chicago, Ill.
SC 1-16. Previous report 1-5

CAPEHART FAMILY HOUSING— Dugway Proving Ground, Utah

Bids will be called about May 20 by Corps of Engineers, San Francisco District, 180 New Montgomery St., San Francisco, for construction of 100 Capehart family housing units at Dugway Proving Ground. GH 1-15

GIRLS' DORMITORY— Ephraim, Utah
(Estimated cost $189,000)

The Federal Housing & Home Finance agencies have approved a $180,000 loan for construction of a girls' dormitory at Snow College, 150 College Ave., Ephraim. Plans by Erick Sandstrom, architect, 290 N. University Ave., Provo. Bids will be called soon by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City.
SC 1-11. Previous report 12-22

● AIR CONDITIONING— Hill AFB, Utah

Bids will be opened 11 a. m., January 21, by Commander, Ogden Air Materiel Area, Directorate of Procurement & Production, Attn.: OOPPCS, Hill AFB, for air conditioning the mezzanine of Warehouse 7D, Bldg. S-871, Hill AFB; IFB 42-600-57-219. Specifications with above office. Bid bond 20%. GH 1-12

CENTRAL TELEPHONE OFFICE— Kearns, Utah
(Estimated cost $600,000)

Construction underway for a central office building at 2780 S. 4015 South in Kearns to facilitate services for the Kearns area. Brick building will be one-story with a basement.
SC 1-11

ELEMENTARY SCHOOL— Kearns, Utah

Bond election will be held February 5 by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for $3,000,000 bond issue (approximate) to finance construction of a new 22-classroom elementary school, to be located north and west of the shopping center and next to the library, in Kearns. Plans by Barker Engineering Co., 270 S. 12th East, Salt Lake City.
GH 1-15. Previous report 12-14

DORMITORY— Logan, Utah
(Estimated cost $1,700,000)

The Federal Housing & Home Finance agencies have approved a $1,700,000 loan for construction of group living and conventional dormitory structures, to accommodate 504 men and 216 women, at the Utah State Agricultural College in Logan.
SC 1-11. Previous report 12-22

● MEMORIAL BUILDING, COURTHOUSE— Morgan, Utah
(Estimated cost $431,970)

Bids will be opened 2 p. m., January 29, by Morgan County Commissioners, Courthouse, Morgan, for demolition of the old county court building and for construction of a new memorial building and courthouse, on the site of the old building, in Morgan. Plans with Lawrence D. Olpin, architect, 521 Kiesel Bldg., Ogden. $40 deposit. Separate bids for demolition and construction.

One-story; partial basement; 308′ long, 50′ deep in center, 138′ deep on east end, 55′ deep on west end; 23,800 sq. ft. floor space, 1,900 sq. ft. basement storage space; 60′x40′ auditorium; adjoining kitchen; including veterans' room, library, nurses' office in addition to regular county offices.
GH 1-16. Previous report 1-11

MEN'S DORMITORY— Price, Utah
(Estimated cost $85,000)

The Federal Housing & Home Finance agencies have approved a $90,000 loan for construction of three one-story dormitory buildings at Carbon College in Price. Plans by Fetzer & Fetzer, architects, 415 Zions Savings Bank Bldg., Salt Lake City. Bids will be called soon by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City. SC 1-11. Previous report 12-13

● LIBRARY— Price, Utah

Bids will be opened 2 p.m., January 30, by William J. Walsh, Jr., mayor, Municipal Bldg., Price, for construction of a new public library and demolition of the old library building in Price. Plans with Ralph A. Edwards, architect, 782 E. 21st South, Salt Lake City. $25 deposit. Certified check, or bid bond $200 (sched. A) and $4,250 (sched. B). Bids will be accepted for either

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schedule A or schedule B but no combination bids will be taken.

SCHED. A: Partial demolition of existing Carnegie Library building. SCHED. B: Construction of new building on site of existing library.

GH 1-12. Previous report 9-22

●UNIVERSITY BUILDINGS—Provo, Utah

Plans will be ready January 21 and bids will be opened approximately February 14 on construction of five men's residence halls, a central hall, site improvements, subsurface drainage and utilities distribution at Brigham Young University in Provo, according to J. W. Tippetts, director of campus planning and development. Deposit on plans $100. Certified check for 5% of bid or for $100,000. Plans may be obtained from Director Tippetts or from the architects. Lowell E. Parrish, architect, Dooly Bldg., Salt Lake City, is preparing plans for the central building, site improvements and utilities. Kegley, Westphall & Arbogast, 800 S. Robertson Blvd., Los Angeles, are architects on the five dormitories.

Bids will be taken on three divisions of the project, at option of the bidder: 1—central building, site improvements, subsurface drainage, utilities distribution. 2—five dormitories. 3—the entire project. Proposals on built-in furnitude may be handled in one if two ways. The general contractor will include the built-ins with his bid or the item may be bid reparately. Kitchen equipment will be bid as a separate item.

The central hall will be one-story, have 40,000 sq. ft. floor space and be constructed with light weight steel frame. The five men's residence halls will have total capacity of 1,170 men; each building will be three-story, have 40,000 sq. ft. floor space. Contruction will be lift slab method with an alternate of poured-in-place concrete.

DM 1-11

MEDICAL CENTER— Provo, Utah

Working drawings underway for construction of a new medical center at about 1350 U. University Ave. in Provo, for a Corporation of Doctors, c/o Willard C. Nelson, architect, Box 704, Provo. The proposed building will contain 22 suites for doctors, with possible expansion to 30 or 40 units. One-story; basement; 20,000 sq. ft. area.

GH 1-15

UNIVERSITY CONSTRUCTION— Salt Lake City, Utah

The Federal Housing & Home Finance agencies have approved a $1,000,000 loan for construction of housing for 303 men, and have tentatively approved a $3,060,000 loan for construction of housing for 100 women and 301 student families at the University of Utah in Salt Lake City.

SC 1-11. Previous report 11-27

FEDERAL RESERVE BANK— Salt Lake City, Utah

(Estimated cost $2,000,000)

Plans will be completed in February or March for a Federal Reserve Bank at 1st South and State streets in Salt Lake City, for Federal Reserve Bank of San Francisco, Sansome and Sacramento streets, San Francisco, Calif. Plans by Ashton, Evans & Brazier, architects, 2920 W. Temple, Salt Lake City.

Five-story; basement; 160'x100', 95,000 sq. ft.; piling footings and foundation; concrete slab floors; prestressed concrete and steel girders, beams, columns; 20-year composition roof; metal stairways; aluminum windows; ceramic veneer exterior, masonry and plaster interior wall finish; steel, brick and block exterior, marble interior trim; steel and concrete interior partitions; asphalt tile, rubber tile, terrazzo, marble flooring; plaster acoustical ceilings; metal doors; fire dors, automatic turn table; light weight concrete insulation in roof; gas fuel; ventilating and air conditioning systems.

IG 1-11. Previous report 11-23

●WAREHOUSE, OFFICE ALTERATION— Salt Lake City, Utah

Bids will be opened 2 p. m., January 23, by Department of the Air Force, National Guard Bureau, Office of the U. S. Property & Fiscal Officer, Fort Douglas, for alterations to the National Guard offices and warehouse at the Salt Lake Municipal Airport No. 1, Salt Lake City; Inv. No. NG-42-056-57-12. Specifications with above office. Bid bond 20%.

GH 1-12

WOODSTOCK ELEMENTARY SCHOOL ADDITION— Salt Lake City, Utah

Bond election will be held February 5 by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for funds to finance construction of an addition to Woodstock elementary school, 6015 S. 1300 East, Salt Lake City. Plans by Cannon & Mullen, architects, 506 Zions Savings Bank Bldg., Salt Lake City.

GH 1-15. Previous report 11-1

WILLIAM PENN SCHOOL ADDITION— Salt Lake City, Utah

(Estimated cost $150,000)

Bond election will be held February 5 by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for funds to finance construction of a ten-room addition to the William Penn elementary school at 1670 Siggard Drive in Salt Lake City. Plans by Robert L. Springmeyer, architect, Zions Savings Bank Bldg., Salt Lake City.

GH 1-15. Previous report 12-20

LIBRARIES— Salt Lake County, Utah

Two sites have been acquired by Salt Lake County Library, Ruth Vine Tyler, head librarian, 80 E. Center St., Midvale, for construction of libraries in Salt Lake County. Sites include one in the Mt. Olympus Acres, east of Wasatch Blvd. on 3900 South, and one in the Holladay area. No funds will be available for construction for ten years.

DH 1-15

UNION BUILDING REMODELING— Salt Lake City, Utah

(Estimated cost $150,000)

Preliminary plans underway for remodeling of the old Union Bldg. for classroom use at the University of Utah in Salt Lake City, for Board of Regents, University of Utah, R. C. Culp, chairman of building committee, Salt Lake City. Plans by Haines & Purhonen, architects, 65 E. 4th South, Salt Lake City.

GH 1-16

TEMPLE SQUARE IMPROVEMENTS— Salt Lake City, Utah

Preliminary plans underway for construction of a new Bureau of Information and possibly relocation of monuments and new landscaping at Temple Square in Salt Lake City, for LDS Church, 47 E.S. Temple, Salt Lake City. Plans by George Cannon Young, architect, 610 Utah Savings & Trust Bldg., Salt Lake City. Work will be done in different stages.

GH 1-16

ORE DRESSING LABORATORY ADDITION— Salt Lake City, Utah

Preliminary plans underway by Cannon, Smith & Gustavson, architect, 1555 E. 3900 South, Salt Lake City, for an addition to the ore dressing laboratory at the University of Utah in Salt Lake City. Bids will be called by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City.

GH 1-16. Previous report 10-25

ASSEMBLY HALL— Salt Lake City, Utah

Preliminary sketches underway for a new assembly hall to be constructed north of Temple Square where the Utah Hotel now stands in Salt Lake City, for LDS Church, 47 E.S. Temple, Salt Lake City. Plans by Arnold H. Ehlers, architect, 47 E.S. Temple, Salt Lake City.

GH 1-16

HOSPITAL ADDITIONS— Salt Lake City, Utah

(Estimated cost $300,000 each addition)

Plans will be complete about June 1 for construction of two additions to St. Mark's Hospital at 2nd West and 7th North in Salt Lake City, for St. Mark's Hospital, Olive W. Wardrop, administrator, 2nd W. and 7th N., Salt Lake City. Plans by R. Lloyd Snedaker, architects, Utah Savings & Trust Bldg., Salt Lake City.

Two additions, each two-story; one [illegible] partially underground; 3,200 sq. ft. and [illegible] sq. ft. areas; concrete footings and fo[illegible] dation; solid masonry, metal walls; pre[illegible] concrete beams and girders; flat roof; [illegible] crete stairways; aluminum windows; b[illegible] and metal exterior wall finish, mixture [illegible] brick, metal and plaster trim; asphalt [illegible] rubber tile, ceramic tile flooring; metal [illegible] wood doors; steam heating system, coal f[illegible]

GH 1-16. Previous report 2-17

GENEALOGICAL BUILDING— Salt Lake City, U[illegible]

Plans contemplated by LDS Church, E.S. Temple, Salt Lake City, for construct[illegible] of a five- or six-story genealogical to located east of the present building on Temple St. in Salt Lake City.

GH 1[illegible]

MCA HOUSING UNITS— Wendover AFB, U[illegible]

Bids will be called about February by Corps of Engineers, San Francisco D[illegible] trict, 180 New Montgomery, San Francis[illegible] for construction of 68 MCA family hous[illegible] units at Wendover AFB.

GH 1[illegible]

★NAVAID FACILITY— Wendover AFB, U[illegible]

Award to Sharp Construction Co., We[illegible] Nev., $16,809, by U.S. Air Force, Procur[illegible] ment Office, Bldg. 2601, Wendover AFB, [illegible] construction of a building complete w[illegible] electrical facilities for a UHF/DF AN/c[illegible] navaid facility; IFB 42-607-57-14.

GH 1-15. Previous report [illegible]

★HEATING SYSTEM— Wendover AFB, U[illegible]

Award to Kohler-Rerford Plumbing Heating Co., Salt Lake City, $15,993, by U[illegible] Air Force, Procurement Office, Bldg. 26[illegible] Wendover AFB, for installation of a co[illegible] plete control sound heating system in Bl[illegible] 1001, Service Club, at the base; IFB 42-6[illegible] 57-15.

GH 1-15. Previuos report [illegible]

ALASKA

■NAVAL BUILDINGS, UTILITIES— Adak, Alas[illegible]

Planholders announced for construction the naval buildings and utilities at Ada Alaska. Bids will be opened 3 p.m., Jan ary 22, by 17th Naval District, Bureau Yards and Docks, Captain R. B. Krum, d trict public works office, U. S. Naval Stati Kodiak, Alaska. Bid opening will be he in the office of Associated General Co tractors' Construction Center, 215 W. Har son, Seattle. Plans with Leo Daly & Asso ates, architects and engineers, Securit Bldg., Seattle. $100 deposit. Bid bond 20

Planholders: Raber & Kief, 420 Que Anne Ave., Seattle; Peter Kiewit Sons' C 1300 Aloha, Seattle; Morrison-Knudsen C Inc., 603 Hoge Bldg., Seattle; B-E-C-K Co structors, 3647 Stone Way, Seattle; J. Pomeroy & Co., Inc., 333 Montgomery, S Francisco, Calif.; Baler & Ford, Box 24, Be ingham; S. S. Mullen, Inc., 646 Holga Seattle; Swalling Construction Co., Tu again Arms, 521 3rd, Anchorage.

GW 1-11. Previous report 12

★FAIR BUILDING PAINTING, REPAI Juneau, Alas[illegible]

Award to Don Abel, 528 Wiloughby Av Juneau, $8,844, by Alaska Communicati System, Army Signal Corps, Purchasing a Contracting Office, 4735 E. Marginal W Seattle, for painting and repairs to the f building in Juneau; DA-45-041-57-13.

GW 1-12. Previous report [illegible]

COLORADO

▲STRUCTURAL STEEL— Colorado Springs, Col[illegible]

Bids received by Air Force Academy Co struction Agency, Box 1670, Colora[illegible]

Springs, for furnishing, fabricating and erecting about 1,025 tons structural steel for the cadet social center building on the Air Force Academy site about ten miles north of Colorado Springs; Inv. No. (IFB) 05-613-57-12. Bids opened December 27. LOW BID: Havens Structural Steel Co., 1713 Crystal Ave., Kansas City, Mo., $328,191. OTHER BIDDERS: Burkhardt Steel Co., 869 S. Broadway, Denver, Colo., $334,462; Mosher Steel Co., Box 5651, Dallas, Texas, $392,763; Salina Mfg. Co., Inc., 624 S. Broadway, Salina, Kans., $394,339; Omaha Steel Works, 609 S. 48th St., Omaha, Nebr., $426,180; Midwest Steel & Iron Works Co., Terminal Box 5384, Denver, $437,027; American Bridge Division, U. S. Steel Corp., First National Bank Bldg., Denver, $441,891; Kilroy Structural Steel Co., 8500 Union Ave., Cleveland, Ohio, $497,280; Allied Structural Steel Co., 20 N. Wacker Drive, Chicago, Ill., $533,000.

SP -16. Previous report 12-1

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

★POWER DISTRIBUTION LINE— Burns, Ore.

Award announced by Harney Electric Cooperative, Inc., Robert E. Cole, manager, Burns, for construction of 123.8 mi. power distribution line in area of Riley, Suntex and Moon Lake in Harney County; Ore. 41 A Harney-Section 4. Plans by Robert Welty, consulting engineer, Box 282, The Dalles. Bids opened January 8. AWARD: Collins Electrical Co., Box 1609, Redding, Calif., $244,444. 2ND LOW: Bonneville Construction Co., Box 900, Idaho Falls, Idaho, $244,532. 3RD LOW: Kimball Construction Co., Box 772, Redding, $248,913.

SC 1-15. Previous report 1-9

★WATER SUPPLY LINE—Butte Falls, Ore.

Award to Everett DenHerder, 1215 W. 11th, Medford, $39,898, by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder St., Portland, for water supply pipeline and necessary concrete and related work on commission property about 1½ mi. from Butte Falls.

WB 1-16. Previous report 1-12

▲WATER RESERVOIR— Condon, Ore.

Bids received by Robert H. Love, city recorder, City Hall, Condon, for construction of a 500,000-gallon steel water reservoir at Condon. Specifications by Vernon B. Tenneson & Associates, consulting engineers, 908½ E. 2nd St., The Dalles. Bids opened January 9. LOW BID: Pittsburgh - Des Moines Steel Co., Box 2084, Seattle, $39,696. OTHER BIDDERS: Low & Easley, 7433 N.E. Killingsworth, Portland, $41,320; Gunderson Bros. Engineering Corp., 4700 N.W. Front, Portland, $42,670; American Pipe & Construction Co., Box 1618, Portland, $44,150; Hammond Iron Works, Box 71, Provo, Utah, $44,960; Chicago Bridge & Iron Co., 1318 4th Ave., Seattle, $45,890.

SC 1-16. Previous report 12-27

STREET IMPROVEMENTS— Coquille, Ore.
(Estimated cost $25,000)

Plans announced by City Council, City Hall, Coquille, for surfacing and curbs on Baxter St. from Main St. to 2nd St. and on 1st St. from Adams St. to 60' west of Collier St.

SC 1-16

TELEPHONE SERVICE IMPROVEMENTS, EXTENSIONS— Delake, Ore.

R.E.A. has announced additional details of plans of the Lincoln-Tillamook Telephone Co., M. F. Berglund, president and manager, Deale Delake, for improvements and expansion of the rural telephone service in Lincoln and Tillamook counties. The R.E.A. loan of $1,025,000 will be used to acquire 22 miles of existing line from other companies, to construct new dial central offices at Beaver, Delake and Taft, to rebuild 119 miles of line, and to construct 92 miles of new line. The present Cloverdale building will be renovated and enlarged, after which the present dial board of Delake will be reconditioned and installed there.

WB 1-8. Previous report 12-15

★INSULATING OIL EQUIPMENT— Goshen, Ore.

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WB 1-11. Previous report 11-30

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WB 1-11. Previous report 1-4

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LAKE COUNTY—Lakeview rock production on 3 state highways in the vicinity of Lakeview; a State Project, involving 10,000 c.y. crushed material in stockpiles.

SP 1-11. Previous report 1-9

▲TRANSMISSION LINE— Portland, Ore.

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schedule A or schedule B but no combination bids will be taken.

SCHED. A: Partial demolition of existing Carnegie Library building. SCHED. B: Construction of new building on site of existing library.

GH 1-12. Previous report 9-22

●UNIVERSITY BUILDINGS—Provo, Utah

Plans will be ready January 21 and bids will be opened approximately February 14 on construction of five men's residence halls, a central hall, site improvements, subsurface drainage and utilities distribution at Brigham Young University in Provo, according to J. W. Tippetts, director of campus planning and development. Deposit on plans $100. Certified check for 5% of bid or for $100,000. Plans may be obtained from Director Tippetts or from the architects. Lowell E. Parrish, architect, Dooly Bldg., Salt Lake City, is preparing plans for the central building, site improvements and utilities. Kegley, Westphall & Arbogast, 800 S. Robertson Blvd., Los Angeles, are architects on the five dormitories.

Bids will be taken on three divisions of the project, at option of the bidder: 1—central building, site improvements, subsurface drainage, utilities distribution. 2—five dormitories. 3—the entire project. Proposals on built-in furnitude may be handled in one if two ways. The general contractor will include the built-ins with his bid or the item may be bid reparately. Kitchen equipment will be bid as a separate item.

The central hall will be one-story, have 40,000 sq. ft. floor space and be constructed with light weight steel frame. The five men's residence halls will have total capacity of 1,170 men; each building will be three-story, have 40,000 sq. ft. floor space. Contruction will be lift slab method with an alternate of poured-in-place concrete.

DM 1-11

MEDICAL CENTER— Provo, Utah

Working drawings underway for construction of a new medical center at about 1350 U. University Ave. in Provo, for a Corporation of Doctors, c/o Willard C. Nelson, architect, Box 704, Provo. The proposed building will contain 22 suites for doctors, with possible expansion to 30 or 40 units. One-story; basement; 20,000 sq. ft. area.

GH 1-15

UNIVERSITY CONSTRUCTION— Salt Lake City, Utah

The Federal Housing & Home Finance agencies have approved a $1,000,000 loan for construction of housing for 303 men, and have tentatively approved a $3,060,000 loan for construction of housing for 100 women and 301 student families at the University of Utah in Salt Lake City.

SC 1-11. Previous report 11-27

FEDERAL RESERVE BANK— Salt Lake City, Utah

(Estimated cost $2,000,000)

Plans will be completed in February or March for a Federal Reserve Bank at 1st South and State streets in Salt Lake City, for Federal Reserve Bank of San Francisco. Sansome and Sacramento streets, San Francisco, Calif. Plans by Ashton, Evans & Brazier, architects, 2920 W. Temple, Salt Lake City.

Five-story; basement; 160'x100', 95,000 sq. ft.; piling footings and foundation; concrete slab floors; prestressed concrete and steel girders, beams, columns; 20-year composition roof; metal stairways; aluminum windows; ceramic veneer exterior, masonry and plaster interior wall finish; steel, brick and block exterior, marble interior trim; steel and concrete interior partitions; asphalt tile, rubber tile, terrazzo, marble flooring; plaster acoustical ceilings; metal doors; fire dors, automatic turn table; light weight concrete insulation in roof; gas fuel; ventilating and air conditioning systems.

IG 1-11. Previous report 11-23

●WAREHOUSE, OFFICE ALTERATION— Salt Lake City, Utah

Bids will be opened 2 p.m., January 23, by Department of the Air Force, National Guard Bureau, Office of the U.S. Property & Fiscal Officer, Fort Douglas, for alterations to the National Guard offices and warehouse at the Salt Lake Municipal Airport No. 1, Salt Lake City; Inv. No. NG-42-056-57-12. Specifications with above office. Bid bond 20%.

GH 1-12

WOODSTOCK ELEMENTARY SCHOOL ADDITION— Salt Lake City, Utah

Bond election will be held February 5 by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for funds to finance construction of an addition to Woodstock elementary school, 6015 S. 1300 East, Salt Lake City. Plans by Cannon & Mullen, architects, 506 Zions Savings Bank Bldg., Salt Lake City.

GH 1-15. Previous report 11-1

WILLIAM PENN SCHOOL ADDITION— Salt Lake City, Utah

(Estimated cost $150,000)

Bond election will be held February 5 by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for funds to finance construction of a ten-room addition to the William Penn elementary school at 1670 Siggard Drive in Salt Lake City. Plans by Robert L. Springmeyer, architect, Zions Savings Bank Bldg., Salt Lake City.

GH 1-15. Previous report 12-20

LIBRARIES— Salt Lake County, Utah

Two sites have been acquired by Salt Lake County Library, Ruth Vine Tyler, head librarian, 80 E. Center St., Midvale, for construction of libraries in Salt Lake County. Sites include one in the Mt. Olympus Acres, east of Wasatch Blvd. on 3900 South, and one in the Holladay area. No funds will be available for construction for ten years.

DH 1-15

UNION BUILDING REMODELING— Salt Lake City, Utah

(Estimated cost $150,000)

Preliminary plans underway for remodeling of the old Union Bldg. for classroom use at the University of Utah in Salt Lake City, for Board of Regents, University of Utah, R. C. Culp, chairman of building committee, Salt Lake City. Plans by Haines & Purhonen, architects, 65 E. 4th South, Salt Lake City.

GH 1-16

TEMPLE SQUARE IMPROVEMENTS— Salt Lake City, Utah

Preliminary plans underway for construction of a new Bureau of Information and possibly relocation of monuments and new landscaping at Temple Square in Salt Lake City, for LDS Church, 47 E.S. Temple, Salt Lake City. Plans by George Cannon Young, architect, 610 Utah Savings & Trust Bldg., Salt Lake City. Work will be done in different stages.

GH 1-16

ORE DRESSING LABORATORY ADDITION— Salt Lake City, Utah

Preliminary plans underway by Cannon, Smith & Gustavson, architect, 1555 E. 3900 South, Salt Lake City, for an addition to the ore dressing laboratory at the University of Utah in Salt Lake City. Bids will be called by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City.

GH 1-16. Previous report 10-25

ASSEMBLY HALL— Salt Lake City, Utah

Preliminary sketches underway for a new assembly hall to be constructed north of Temple Square where the Utah Hotel now stands in Salt Lake City, for LDS Church, 47 E.S. Temple, Salt Lake City. Plans by Arnold H. Ehlers, architect, 47 E.S. Temple, Salt Lake City.

GH 1-16

HOSPITAL ADDITIONS— Salt Lake City, Utah

(Estimated cost $300,000 each addition)

Plans will be complete about June 1 for construction of two additions to St. Mark's Hospital at 2nd West and 7th North in Salt Lake City, for St. Mark's Hospital, Olive W. Wardrop, administrator, 2nd W. and 7th N., Salt Lake City. Plans by R. Lloyd Snedaker, architects, Utah Savings & Trust Bldg., Salt Lake City.

Two additions, each two-story; one [illegible] partially underground; 3,200 sq. ft. and [illegible] sq. ft. areas; concrete footings and [illegible] dation; solid masonry, metal walls; precas[illegible] concrete beams and girders; flat roof; con[illegible] crete stairways; aluminum windows; brick and metal exterior wall finish, mixture [illegible] brick, metal and plaster trim; asphalt til[illegible] rubber tile, ceramic tile flooring; metal [illegible] wood doors; steam heating system, coal fue[illegible]

GH 1-16. Previous report 2-17-[illegible]

GENEALOGICAL BUILDING— Salt Lake City, Uta[illegible]

Plans contemplated by LDS Church, [illegible] E.S. Temple, Salt Lake City, for constructio[illegible] of a five- or six-story genealogical to b[illegible] located east of the present building on [illegible] Temple St. in Salt Lake City.

GH 1-[illegible]

MCA HOUSING UNITS— Wendover AFB, Uta[illegible]

Bids will be called about February [illegible] by Corps of Engineers, San Francisco Di[illegible] trict, 180 New Montgomery, San Francisco, for construction of 68 MCA family housing units at Wendover AFB.

GH 1-[illegible]

★NAVAID FACILITY— Wendover AFB, Uta[illegible]

Award to Sharp Construction Co., Welli[illegible] Nev., $16,809, by U.S. Air Force, Procure[illegible] ment Office, Bldg. 2601, Wendover AFB, fo[illegible] construction of a building complete wit[illegible] electrical facilities for a UHF/DF AN/cR[illegible] navaid facility; IFB 42-607-57-14.

GH 1-15. Previous report 1[illegible]

★HEATING SYSTEM— Wendover AFB, Uta[illegible]

Award to Kohler-Rerford Plumbing [illegible] Heating Co., Salt Lake City, $15,993, by U.S. Air Force, Procurement Office, Bldg. 260[illegible] Wendover AFB, for installation of a com[illegible] plete control sound heating system in Bldg. 1001, Service Club, at the base; IFB 42-60[illegible] 57-15.

GH 1-15. Previuos report 1[illegible]

ALASKA

■NAVAL BUILDINGS, UTILITIES— Adak, Alask[illegible]

Planholders announced for construction [illegible] the naval buildings and utilities at Ada[illegible] Alaska. Bids will be opened 3 p.m., Jan[illegible] ary 22, by 17th Naval District, Bureau [illegible] Yards and Docks, Captain R. B. Krum, di[illegible] trict public works office, U.S. Naval Statio[illegible] Kodiak, Alaska. Bid opening will be he[illegible] in the office of Associated General Co[illegible] tractors' Construction Center, 215 W. Harr[illegible] son, Seattle. Plans with Leo Daly & Assoc[illegible] ates, architects and engineers, Securiti[illegible] Bldg., Seattle. $100 deposit. Bid bond 20[illegible]

Planholders: Raber & Kief, 420 Que[illegible] Anne Ave., Seattle; Peter Kiewit Sons' C[illegible] 1300 Aloha, Seattle; Morrison-Knudsen C[illegible] Inc., 603 Hoge Bldg., Seattle; B-E-C-K Co[illegible] structors, 3647 Stone Way, Seattle; J. [illegible] Pomeroy & Co., Inc., 333 Montgomery, S[illegible] Francisco, Calif.; Baler & Ford, Box 24, Be[illegible] ingham; S. S. Mullen, Inc., 646 Holga[illegible] Seattle; Swalling Construction Co., Tur[illegible] again Arms, 521 3rd, Anchorage.

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

★FAIR BUILDING PAINTING, REPAIR Juneau, Alas[illegible]

Award to Don Abel, 528 Wiloughby Av[illegible] Juneau, $8,844, by Alaska Communicatio[illegible] System, Army Signal Corps, Purchasing a[illegible] Contracting Office, 4735 E. Marginal W[illegible] Seattle, for painting and repairs to the f[illegible] building in Juneau; DA-45-041-57-13.

GW 1-12. Previous report [illegible]

COLORADO

▲STRUCTURAL STEEL— Colorado Springs, Co[illegible]

Bids received by Air Force Academy Co[illegible] struction Agency, Box 1670, Colora[illegible]

Springs, for furnishing, fabricating and erecting about 1,025 tons structural steel for the cadet social center building on the Air Force Academy site about ten miles north of Colorado Springs; Inv. No. (IFB) 05-613-57-12. Bids opened December 27. LOW BID: Havens Structural Steel Co., 1713 Crystal Ave., Kansas City, Mo., $328,191. OTHER BIDDERS: Burkhardt Steel Co., 869 S. Broadway, Denver, Colo., $334,462; Mosher Steel Co., Box 5651, Dallas, Texas, $392,763; Salina Mfg. Co., Inc., 624 S. Broadway, Salina, Kans., $394,339; Omaha Steel Works, 609 S. 48th St., Omaha, Nebr., $426,180; Midwest Steel & Iron Works Co., Terminal Box 5384, Denver, $437,027; American Bridge Division, U. S. Steel Corp., First National Bank Bldg., Denver, $441,891; Kilroy Structural Steel Co., 8500 Union Ave., Cleveland, Ohio, $497,280; Allied Structural Steel Co., 20 N. Wacker Drive, Chicago, Ill., $533,000.
SP-16. Previous report 12-1

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

★POWER DISTRIBUTION LINE— Burns, Ore.

Award announced by Harney Electric Cooperative, Inc., Robert E. Cole, manager, Burns, for construction of 123.8 mi. power distribution line in area of Riley, Suntex and Moon Lake in Harney County; Ore. 41 A Harney-Section 4. Plans by Robert Welty, consulting engineer, Box 282, The Dalles. Bids opened January 8. AWARD: Collins Electrical Co., Box 1609, Redding, Calif., $244,444. 2ND LOW: Bonneville Construction Co., Box 900, Idaho Falls, Idaho, $244,532. 3RD LOW: Kimball Construction Co., Box 772, Redding, $248,913.
SC 1-15. Previous report 1-9

★WATER SUPPLY LINE—Butte Falls, Ore.

Award to Everett DenHerder, 1215 W. 11th, Medford, $39,898, by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder St., Portland, for water supply pipeline and necessary concrete and related work on commission property about 1½ mi. from Butte Falls.
WB 1-16. Previous report 1-12

▲WATER RESERVOIR— Condon, Ore.

Bids received by Robert H. Love, city recorder, City Hall, Condon, for construction of a 500,000-gallon steel water reservoir at Condon. Specifications by Vernon B. Tenneson & Associates, consulting engineers, 908½ E. 2nd St., The Dalles. Bids opened January 9. LOW BID: Pittsburgh-Des Moines Steel Co., Box 2084, Seattle, $39,696. OTHER BIDDERS: Low & Easley, 7433 N.E. Killingsworth, Portland, $41,320; Gunderson Bros. Engineering Corp., 4700 N.W. Front, Portland, $42,670; American Pipe & Construction Co., Box 1618, Portland, $44,150; Hammond Iron Works, Box 71, Provo, Utah, $44,960; Chicago Bridge & Iron Co., 1318 4th Ave., Seattle, $45,890.
SC 1-16. Previous report 12-27

STREET IMPROVEMENTS— Coquille, Ore.
(Estimated cost $25,000)

Plans announced by City Council, City Hall, Coquille, for surfacing and curbs on Baxter St. from Main St. to 2nd St. and on 1st St. from Adams St. to 60' west of Collier St.
SC 1-16

TELEPHONE SERVICE IMPROVEMENTS, EXTENSIONS— Delake, Ore.

R.E.A. has announced additional details of plans of the Lincoln-Tillamook Telephone Co., M. F. Berglund, president and manager, Deale Delake, for improvements and expansion of the rural telephone service in Lincoln and Tillamook counties. The R.E.A. loan of $1,025,000 will be used to acquire 22 miles of existing line from other companies, to construct new dial central offices at Beaver, Delake and Taft, to rebuild 119 miles of line, and to construct 92 miles of new line. The present Cloverdale building will be renovated and enlarged, after which the present dial board of Delake will be reconditioned and installed there.
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SP 1-11. Previous report 1-9

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for construction of the Alvey-Reston 230-kv transmission line, Drain Tap Point-Rice Hill and Rice Hill-Reston sections and Miles 1 to 5 of the Reston-Fairview 230-kv transmission line, Lane and Douglas Counties, Ore.; Inv. No. 8246. BIDDERS—SCHEDULE I: Power Line Erectors, Inc., 2018 Waterworks, Spokane, $236,570; Tyee Construction Co., Hoge Bldg., Seattle, $253,639; Key Construction Co., Inc., 1601 Taylor Way, Seattle, $254,232; Parker-Schram Co., 201 Builders Exchange Bldg., Portland, $276,448. SCHEDULE II: Key Construction Co., $405,492; Power Line Erectors, $441,779; Tyee Construction Co., $462,556. Bids opened January 10. WB 1-12. Previous report 1-3

●GLOBE VALVES— Portland, Ore.

Bids to be opened 11 a. m., January 21, by Portland District, Corps of Engineers, 628 Pittock Block, Portland, for 14, 2½" brass globe valves, fob Portland; CIVENG-35-026-57-147. WB 1-12

LANDSCAPING— Portland, Ore.

(Estimated cost $15,600)

Landscape architect, David E. Thompson, 316 Davis Bldg., retained by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., to prepare the planting plans and specifications for James Madison High School. WB 1-15

●BITULITHIC MATERIALS— Portland, Ore.

Bids will be opened 10:30 a. m., January 24, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 Courthouse, Portland, for furnishing bitulithic materials for various roads and bridges during 1957. Specifications with road master, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%. WB 1-15

●GRAVEL PRODUCTION— Portland, Ore.

Bids to be opened 10:30 a. m., January 24, by Board of Multnomah County Commissioners, John W. West, purchasing agent, room 504, Courthouse, Portland, for furnishing screened, crushed and bank gravel production at Vance Pit. Specifications with roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%. WB 1-15

▲ASPHALT ROLLER— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for one tandem gasoline asphalt roller. BIDDERS: Balzer Machinery Co., 2136 S.E. 8th Ave., Portland, $2,580 (delivery in 3 weeks); Feenaughty Machinery Co., 112 S.E. Belmont St., Portland, $3,699 (one week delivery). Bids opened January 11.

WB 1-15. Previous report 12-29

▲GATE, CHECK VALVES— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for gate and check valves. BIDDERS: Waterworks Supplies Co., 4455 S.E. 24th Ave., Portland, $5,800, (alternate) $5,400; Consolidated Supply Co., 2300 N.W. 26th Ave., Portland, $6,085, $5,333; Ludlow Valve Manufacturing Co., represented by Hallgren Co., 1252 1st Ave. S., Seattle, $6,278, $5,276. Two incomplete bids also received January 10.

WB 1-15. Previous report 12-29

▲ASPHALT— Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing asphalt for calendar year 1957. BIDDERS: Shell Oil Co., Terminal Sales Bldg.; American Bitumuls & Asphalt Co., 5501 N.W. Front Ave.; Union Oil Co. of California, Yeon Bldg., and Douglas Oil Co. of California, 5500 N.W. Front Ave., all Portland, each bid $27.00 a ton for asphale, $28.00 a ton for liquid asphalt SC-3. Bids opened January 9. WB 1-15. Preivous report 12-29

★SEWERS— Portland, Ore.

Award to S. K. Azar, 5306 S.E. 99th Ave., Portland, $2,212, by City Auditor, Will Gibson, City Hall, Portland, for sanitary sewer in Alley in Block 23, Vermont Hills No. 3, and in Marimont Heights.

WB 1-16. Previous report 12-28

★CABLE— Portland, Ore.

Award to General Electric Supply Co., 300 N.W. 14th Ave., Portland, $604, by city purchasing agent, 208 City Hall, Portland, for 2,000' of cable for Bureau of Fire.

WB 1-16. Previous report 12-15

ROAD CONSTRUCTION— Portland, Ore.

Plans announced by Bureau of Land Management, James F. Doyle, area administrator, 1001 N.E. Lloyd Blvd., Portland, for start of construction of six federal timber access roads in Oregon before June, 1957. Bids will be called by Bureau of Public Roads, F. E. Andrews, division entgineer, 753 Morgan Bldg., Portland.

Projects tentatively planned are: Clearing only for 10 miles of road along the Nestucca River between Carlton and Blaine in Tillamook and Yamhill counties; construction of 20.1 miles of road along Cow Creek near Riddle in Douglas County; construction of Section A of the Camp Creek Road, 15.3 miles near Scottsburg in Douglas county; construction of 6.1 miles of the Middle Creek Road near Riddle in Douglas County; construction of 10.3 miles (Section B) of the Twin Sister Road in Douglas County near Eugene; clearing for Section D of the Smith River Road, 5 mi., near Gardner in Douglas County. WB 1-16

★CULVERT PIPE— Portland, Ore.

Award to Collins Concrete & Steel Pipe Co., 3841 N. Columbia Blvd., Portland, $12,420, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 Courthouse, Portland, for furnishing culvert pipe for calendar year 1957. Bids opened December 27.

WB 1-16. Previous report 12-14

★CLEARING, GRUBBING—Portland, Ore.

Award to Frank Lyons & Co., 5200 N.E. Alberta St., Portland, $2,100, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for clearing and grubbing approximately 19 acres at Terminal No. 4 for the future site of Pier No. 4. WB 1-16. Previous report 1-9

SEWAGE TREATMENT PLANT, INTERCEPTOR SEWERS— Roseburg, Ore.

(Estimated cost $535,000, treatment plant; $178,000, sewers)

Bids will be called about April 1 by City Council, City Hall, Roseburg, for first phase construction of the sewage treatment plant and interceptor sewer system planned for Roseburg. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineer, 1600 Western Ave., Corvallis.

The first year construction will consist of a sewage treatment plant at the junction of Goeduck Road with Melrose Road at the west city limits, and an interceptor sewer consisting of 10,000' of 36" and 42" concrete pipe following the river bank upstream to the vicinity of Homewood Lane. The plant will be designed for a population of 20,000 persons and will provide complete treatment for a design flow of 3.6 mgd. Treatment will consist of primary and secondary clarification, a high rate filter, and two stage digestors. Grit removal and sludge thickening will also be incorporated.

SP 1-15. Previous report 12-20

SEWERS, TREATMENT PLANT— The Dalles, Ore.

(Estimated cost $285,000)

Plans for The Dalles' proposed sewage treatment plant have ben changed to include a pumping system and to eliminate the interceptor sewers previously planned. The consulting engineers, Stevens & Thompson, 2234 S.W. 5th Ave., Portland, have reported that the terrain at the proposed plant location at the foot of Laughlin St. is too flat for proper gravity flow unless interceptors are installed. By using a pumping system (utilizing pumps from present plant), existing sewers running to that location can be used. This new plan will reduce the estimated cost from $355,000 to $285,000. Application for $106,686 in federal funds has been approved by the State Sanitary Authority, but funds will not be available this fiscal year unless the city receives one of the top four priorities in the state. The city will receive its priority rating January 18, after which it will be determined whether the bond election scheduled for March 1 will be for $200,000 or $300,000.

WB 1-10. Previous report 12-28

■SUBSTATION, CONTROL HOUSE— The Dalles, Ore.

Planholders announced for construction of the Chenoweth substation and control house, two miles north of the west city limits of The Dalles, Wasco County, Ore.; Inv. No. 8256. Bids will be opened 2 p. m., January 30, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland. Specifications with above office. $50 deposit.

Planholders: Lloyd B. Read, 2607 S.W. Sunset Blvd., Portland; John M. King Co., 1601 Taylor Way, Tacoma; O. Brandon, 6401 Lincoln, Vancouver; Utility Construction Co., 4224 N. Mason, Tacoma; Mid-State Construction Co., 810 Union St., The Dalles; Associated General Contractors, 220 W. Harrison St., Seattle; J. M. Montgomery & Co., Inc., 900 S. Robertson Blvd., Los Angeles; George S. Smith, Route 1, Box 19A, Bothell, Wash. (Gen. Del., Milton, Ore.); Key Construction Co. (John M. King Co.), 1601 Taylor Way, Tacoma; A. H. Barbour & Son, 2828 N.E. Alberta St., Portland.

WB 1-11. Previous report 1-4

▲POWER CIRCUIT BREAKER— Toledo, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for power circuit breaker, fob Toledo, Ore.; Inv. No. 8241. BIDDERS: Allis-Chalmers Manufacturing Co., Cascade Bldg., Portland, $20,830 (10% escalation); Brown Boveri Corp., New York, N. Y., $21,200; Westinghouse Electric Corp., U. S. Bank Bldg., Portland, $24,135 (10% escalation). Bids received January 4. WB 1-11

▲MILL WATERWORKS— Toledo, Ore.

Complete list of bids received in office of Cornell, Hayes, Howland & Merryfield, Corvallis, for construction of a reinforced concrete pumping station and appurtenances, part of a system to provide water for the new Georgia-Pacific Paper Co. at Toledo. Main office of the Georgia-Pacific Paper Co. is in the Equitable Bldg. in Portland. BIDDERS: John Kovtynovich, 396 Skyline Loop, Eugene, $82,517; P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., Portland, $82,760; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $107,468; Valley Construction Co., 6100 N.E. Columbia Blvd., Portland, $120,993; C. E. Strong, Eugene, $124,150. Bids opened January 11. WB 1-16. Previous report 1-15

▲SEWAGE TREATMENT PLANT— Weston, Ore.

Bids received by Ken W. Dauble, city recorder, City Hall, Weston, for construction of a sewage treatment plant on Highway No. 11 in Weston. Plans by Walter L. Woodward, consulting entgineer, Empire State Bldg., Spokane. Bids opened January 9. LOW BID: Hefte Construction Co., E. 11607 Trent, Spokane, $70,178. OTHER BIDS: Ruud Construction Co., Realty Bldg., Spokane, $74,955; H. E. Schimmels, Box 262, Dishman, $76,256; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland, Ore., $82,000. SC 1-12. Previous report 1-3

WASHINGTON

WATER SYSTEM— Aberdeen, Wash.

Preliminary plans underway by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle, for construction of a water system for the Central Park Water district, near Aberdeen. Bids will be called on completion of plans by Central Park Water District, Ed Dahlstrom, secretary, water district office, Central Park, Aberdeen. Project will include water mains, well water supplies and storage tank.

GW 1-16

★WAGON DRILL— Asotin, Wash.

Award announced by Asotin County Commissioners, Courthouse, Asotin, for a wagon drill for the Asotin County Road Department. Bids opened January 7. AWARD: Western Machine Co., N. 808 Division, $2,350 (base bid), $375 (trade-in), $1,975 (net). OTHER BIDS: Andrews Equipment Co., S. 126 Walnut, $2,445, $800, $1,645; Modern Machinery Co., Inc., (two bids), E. 4412 Trent, $2,761, $400, $2,361 and $2,451, $400, $2,051; Intermountain Equipment Co., E. 611 Sprague, $2,432, $475, $1,957. All of Spokane. Award to Western Machinery because the bid was for Thor equipment which better fits other county equipment. SC 1-15

STORM DRAINAGE SYSTEM— Bellevue, Wash.

(Estimated cost $1,400,000)

An advance of $9,000 has been received by Bellevue City Council from Housing and Home Financing Agency for preliminary planning for a city-wide storm sewer drainage system. Plans and studies are being made by R. W. Beck & Associates, consulting engineers, 1505 Tower Bldg., Seattle. The project will involve construction of trunk and lateral storm sewers and improved surface drainage. DM 1-8

ELECTRICAL DISTRIBUTION LINES— Bellingham, Wash.

Whatcom County Commissioners, Courthouse, Bellingham, have granted permission to Puget Sound Power & Light Co., State and Magnolia, Bellingham, to construct, maintain and operate electrical distribution and transmission lines along, over and across roads in Whatcom County, outside of any incorporated city or town. ET 1-12

●MOWER TRACTOR— Bellingham, Wash.

Bids will be received until February 4 and will be opened 4 p.m., February 5, by City Comptroller, City Hall, Bellingham, for furnishing and delivering fob Bellingham, one 1957 mower tractor complete with hydraulic hoist for three 30" gang mower units; trade-in is 1941 Toro tractor with three cutting units and may be seen at the Park Dept. garage, 1400 Woburn St., Bellingham. Specifications with city comptroller and with park superintendent. Certitfied check 5%. Bids were previously opened December 31 for this and were subsequently rejected.

ET 1-15. Previous report 1-5

SEWER SYSTEM— Bothell, Wash.

Few objections were raised at the public hearing on the construction of proposed sewer system for the city of Bothell. Plans will now go ahead by Leo Daly & Associates, architects and engineers, Securities Bldg., Seattle. Bids will be called about April or May by Town Council, W. C. Caldwell, town clerk, Town Hall, Bothell, for sewage treatment plant, lines, pump stations; sewer system involving mains, laterals, interceptors; outfall connecting to the Lake Sammamish Slough and then to Lake Washington. GW 1-15. Previous report 12-15

★STORAGE TANK, AIR COMPRESSOR— Bremerton, Wash.

Award announced by Kitsap County Commissioners, Courthouse, Bremerton, for purchase of a 1,200-gal. asphalt storage tank with electric heating equipment and a transfer pump, and purchase of an electric air compressor to be used for drying rock used in asphalt roadmix. Bids opened January 7. AWARD: Columbia Equipment Co., 5030 1st S., $11,018. OTHER BIDDERS: Fauchald Sales, Inc., 2918 1st Ave. S., $13,357; Northwest Engineering Electric Co., 616 6th S., $2,023 (motors); A. H. Cox & Co., 1757 1st S., $2,635 (compressor); Star Machinery Co., 341 Lander, $5,341 (compressor, motors); U.S. Eleltrical Motors, Inc., 3127 4th Ave. S., $2,560 (motors). All of Seattle.

SP 1-12. Previous report 12-22

●AIR RAID SYSTEM— Bremerton, Wash.

Bids will be opened 2 p.m., February 13, at the office of the director, Kitsap County Civil Defense, Control Center, 13th St. and Nipsic Ave., Bremerton, for furnishing and installing an air raid warning system, consisting of five sirens and their control panels to be furnished by the Kitsap County Civil Defense Organization, in Bremerton. Specifications with above office and with the city engineer, City Hall, Bremerton.

SC 1-15

●PIPE LINES— Brewster, Wash.

Bids will be opened 10 a.m., February 21, by Bureau of Reclamation, Bridgeport, for construction of pipe lines for Brewster Flat distribution system, Brewster Flat Irrigation District, near Brewster, Okanogan County, Wash.; DC-4829. Specifications with above office. Bid bond 10%. Competion time 400 calendar days.

Project includes earthwork for pipe lines and structures; construction of concrete pressure-reducing valve structures; furnishing and installing steel pipe and fittings, asbestos-cement pipe and fittings, and drains, valves and meters.

Quantities: 360 c.y. excavation and backfill for structures; 30,000 c.y. excavation and backfill of pipe trenches; 6 concrete pressure-reducing valve structures; 81,270' steel pipe; 12,050' asbestos-cement pipe; 65 drains; 336 gate valves. SP 1-15

●BURNER FUEL OIL— Bridgeport, Wash.

Bids will be opened 3 p.m., January 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Chief Joseph Substation, Bridgeport, 9,000 gal. burner fuel oil, Grade F.S. No. 2; Inv. No. 8258. Specifications with above office. SP 1-11

●REINFORCED CONCRETE RESERVOIR— Cashmere, Wash.

Bids will be opened 8 p.m., February 24, by Earl Barnes, town clerk, Town Hall, Cashmere, for construction of a reinforced concrete reservoir in Cashmere. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Spokane. $25 deposit.

IG 1-15

●STATE PARK IMPROVEMENTS— Coulee City, Wash.

Bids to be opened 10 a.m., February 1, by State Parks and Recreation Commission, John H. Vanderzicht, director, 100 Dexter Ave., Seattle, for construction of golf course fairway, camping facilities and parking area at Sun Lakes State Park on Highway No. 7, six miles south of Coulee City and 20 miles north of Soap Lake, Grant County, Washington. Plans with engineers, State Parks Department, 100 Dexter Ave., Seattle, and with Ross Nelson, superintendent, Sun Lakes State Park. Certified check, cashier's check or bid bond 5%.

Quantities: 520 c.y. excavation; 1,610 c.y. selected roadway borrow; 840 c.y. crushed stone surfacing; 8,650 sq. yd. sod removal; 3,660 sq. yd. sod replacement; 600 c.y. top soil; rebuilding golf course green; extension to irrigation and domestic water systems; miscellaneous items. GW 1-15

★RAILS, ACCESSORIES—Covington, Wash.

Award to C. M. Lovsted & Co., Inc., 4000 W. Marginal Way, Seattle, $1,454, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Covington, rail, joint bars, plates and spikes; Inv. No. 8235.

WB 1-11. Previous report 1-3

▲LATERAL CONCRETE LINING— Ephrata, Wash.

Bids received by Bureau of Reclamation, Division and C St. N.W., Ephrata, for concrete lining PE16.4 lateral, Station 297+92.42 to Station 325.00, potholes east canal laterals, Block 49, 9 mi. southest of Othello, Adams County, Wash.; Spec. No. 117C-409. Bids opened January 8. LOW BIDS: Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $24,600; Lewis Hopkins Co., Inc., 221 S. 3rd St., Pasco, $28,060; West Coast Construction Co., 835 W. 48th St., Seattle, $29,025.

SP 1-11. Previous report 12-1

★PUMPING PLANT— Ephrata, Wash.

Award to Stidham Construction Co. and A. E. Hamlett, Ephrata (joint venture), $9,811, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of EL 85C3 pumping plant, East Low Canal Laterals, Block 47, 11 miles south of Othello, Adams County, Wash.; Spec. No. 117C-401. SP 1-15. Previous report 12-19

●ASPHALT, ASPHALTIC CONCRETE— Everett, Wash.

Bids will be opened 10 a.m., January 22, by City Clerk, City Hall, Everett, for furnishing 300 tons of various classes of plant-mix type I-1 asphaltic concrete and 200 tons of sheet asphalt mix (item 1); for furnishing 1,400 tons of stockpile asphalt maintenance mixture, cold mix (item 2); for furnishing 200 tons of medium curing liquid asphalt MC-2 and MC-3 and rapid curing liquid asphalt RC-3 (item 3). Specifications with above office. Certified check 5%. Separate bide on each item. HH 1-15

▲POTABLE WATER SUPPLY— Fairchild AFB, Wash.

Bids received by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of a potable water supply at Fairchild AFB, Wash.; ENG-45-107-57-85. LOW BID: Lord-Carroll Co., General Delivery, Geiger Field Post Office, Spokane, $267,932. OTHER BIDS: Hefte Construction Co., 11607 Trent Ave., Spokane, $306,696; Pacific Mechanical Contractors, Inc., Lloyd Bldg., Seattle, $313,989; H. Halvorson, Inc., Box 6, Yardley, $319,964; J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore., $320,912; Murphy Bros., 3728 E. Broadway, Spokane, $323,525; Sceva Construction Co., N. 2928 Madelia, Spokane, $343,708; Harold Kaeser Co., 3629 34th Ave. S., Seattle, $353,-305; Valley Construction Co., 7722 Rainier Ave., Seattle, $355,235. Engineer's estimate, $278,930. Bids opened January 15.

GW 1-16. Previous report 12-29

★RAILWAY RELOCATION— Green River, Wash.

Award to Paul Jarvis, Inc., 1070 W. Ewing, Seattle, $985,716, by Corps of Engineers, Seattle District, 4735 E. Marginal Way, Seattle, for relocation of Northern Pacific Railway, Mile 81.5 to Mi. 81.6, section 3, Eagle Gorge Reservoir, Green River, Wash.; CIVENG-45-108-57-22.

GW 1-16. Previous report 1-11

HARPER FERRY TERMINAL— Harper, Wash.

The Harper ferry landing improvement, part of the over-all project which includes improvements and enlargement of Vashon and Fauntleroy ferry piers and slips, is in the formulative stage as yet. Plans by Cecil C. Arnold, consulting engineer, 511 Arctic Bldg., Seattle, call for construction of a new four-lane pier and double slip at Southworth Point, about 1.7 mi. south of the present Harper installation, surfacing a parking area for 100 cars, constructing a new low-level access road. Upon completion, the existing Harper pier would be retired. It is hoped that bids can be called sometime in March.

The over-all project on which a $1,000,000 bond issue has been approved, calls for improvements to the existing Fauntleroy-Vashon-Harper ferry system. Bids will be called by Washington State Highway Commission for the Washington Toll Bridge Authority. Charles E. Andrew, 3201 Fremont Ave., Seattle, is chief consulting engineer for the Authority.

GW 1-9. Previous report 10-10

●WELL, PUMP PLANT, WATER STORAGE SYSTEM—Ice Harbor Lock and Dam, Wash.

Bids will be opened 2 p.m., February 1, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for drilling and developing a water well and constructing a pump plant and water storage and supply systems at Ice Harbor Lock and Dam, Walla Walla County, Wash.; CIVENG-45-164-57-42. Specifications with above office. Completion time 180 calendar days.

Project includes drilling, casing and developing 157' water well; constructing pumping plant and 150,000 gallon steel water storage reservoir; appurtenant excavation, fill, cast iron piping and corrugated metal pipe sleeve.

Quantities: 158' drilling; 158' casing re-

moval; 158' casing installation; 230 cu. ft. gravel filter; 6 cu. ft. sand seal; 35 cu. ft. backfill; drainage systems; 1,575' of 6" water drain and overflow lines; 550' of 4" water line; 260' corrugated metal pipe sleeve; 515 c.y. rock excavation; 500 c.y. rock excavation; 20 c.y. cushion fill; 1,400' galvanized rigid steel conduit.

SP 1-15. Previous report 12-28

★FISHWAY CONSTRUCTION—Index, Wash.

Award to Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $350,000, by State Department of Fisheries, 417-H General Administration Bldg., Olympia, for construction of the first unit of the Sunset Falls fishway located about two miles east of Index on U. S. No. 2 Stevens Pass Highway.

SP 1-16. Previous report 1-10

▲STEEL STANDPIPE, ACCESSORIES— Kirkland, Wash.

Bids received by King County Water District No. 81, P. P. Kidder, secretary, water district office, Journal Bldg., Kirkland, for furnishing and erecting a 500,000-gallon standpipe and accessories, for ULID No. 4. Plans by Harry Sisler, district engineer, 106 Journal Bldg., Kirkland. BIDS: Chicago Bridge and Iron Co., White-Henry-Stuart Bldg., Seattle, $60,900 (alternate for smaller type of fountain $59,305); American Pipe and Construction Co., 518 N.E. Columbia Blvd., Portland, Ore., $64,840; Pittsburgh-Des Moines Steel Co., 901 Lane, Seattle, $66,635; W. E. Caldwell Co., Louisville, Ky., $69,951; Hydraulic Supply Co., 7500 8th Ave. S., Seattle, $71,398. Bids opened January 11.

GW 1-15. Previous report 1-4

●DUMP TRUCK— Lynden, Wash.

Bids will be opened 8 p. m., February 4, by City Council, City Hall, Lynden, for a 2-ton dump truck for city use in Lynden. Specifications available at the city hall. ET 1-15

ROAD WIDENING— Lynden, Wash.

The City Council, City Hall, Lynden, has voted to widen the Colly Hill Road by 2' to include a gutter and additional tiling in Lynden. ET 1-16

▲IRRIGATION LINE— Moses Lake, Wash.

Bids received by Columbia Basin Engineers, 310 Balsam St., Moses Lake, for construction of an irrigation supply line and concrete drain line to be constructed for Phil Herman of Moses Lake. Bids opened January 10. LOW BID: G. V. Nolte & Co., N. Grape Drive, Mases Lake, $5,308. OTHER BIDDERS: Mullins Construction Co., 850 C St. N.W., Ephrata, $6,394. Engineer's estimate $6,436. SP 1-15. Previous report 1-4

●DISTRIBUTION LINE— Okanogan, Wash.

Bids will be opened 1 p. m., February 13, by Okanogan County PUD No. 1, W. L. Barbee, manager, at the district office, Okanogan, for reconstruction of 15.6 mi. distribution line. Specifications with above office. $10 deposit. SC 1-15

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Awards and one project held for consideration by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction projects on which bids opened January 8.

MEGLER TO KNAPPTON — Clearing, draining, gradin' on 2.857 mi. SSH No. 12-B, Pacific County; FAP No. F-003-1(5).

Held for consideration.

LOW BIDS: Erland & Blickle, 8265 N. Borthwick, Portland, $1,199,762; Stoen Construction Co., 2210 E. 95th, Seattle, $1,302,366; Osberg Construction Co., 1132 N. 128th, Seattle, $1,385,979.

PILCHUCK HILL TO NORTH BURN ROAD — Clearing, draining, grading, constructing two reinforced concrete slab bridges on 4.241 mi. PSH No. 1, Snohomish County; FAP No. IN-001-4(16).

AWARD: J. J. Welcome, Box 641, Redmond, $538,225.

N.E. 132ND STREET TO WOODINVILLE —Clearing, draining, grading on 2.479 mi. SSH No. 2-A, King County; FAP No. U-025-1(12).

AWARD: Herman Cathman, 12055 23rd N.E., Seattle, $277,422.

WHITE TRAIL ROADS WEST AND EAST —Draining, grading, surfacing with light bituminous surface treatment on 12.482 mi. Grant County road; FAS Nos. S-1004(3), S-1218(1).

AWARD: C. J. Peter, 1303 S. Gray St., Pasco, $97,657.

LITTLE KALAMA RIVER ROAD — Clearing, drainign, grading, surfacing with crushed stone 2.202 mi. Cowlitz County road; FAS No. S-0712(1).

AWARD: Guy J. Norris, 208 N. Pacific Ave., Kelso, $143,941.

SAGEMORE ROAD — Draining, grading, surfacing 0.099 mi. Franklin County road; FA No. ER 22(2).

AWARD: Burd & Bush, Box 64, Ephrata, $9,888.

UMPTANUM VICINITY — Excavating impending slide material on 0.095 mi. PSH No. 3 in Kittitas County, a State Project, involving about 83,608 c.y. unclassified excavation.

AWARD: I. M. Saimons, Route 1, Box 788, Alderwood Manor, $30,262.

BLOCK 14 FEEDER ROADS — Draining, grading, surfacing 15.705 mi. Franklin County roads, a State Project.

AWARD: Grant Construction Co., Box 351, Coer d'Alene, Idaho, $79,843.

BLOCK 99 FEEDER ROADS — Draining, grading, surfacing on 35.563 mi. Grant County roads; a State Project.

AWARD: J. W. Hardison, Box 48, Yakima, $129,037. DE 1-11. Previous report 1-9

★PLASTIC PIPE, FITTINGS— Olympia, Wash.

Award by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland, for plastic pipe and fittings, fob Quinault, Shelton and Quilcene Ranger Stations. AWARD: Lumber Products Co., 2116 N.W. 20th Ave., $672. 2ND LOW: Empire Rubber & Supply Co., 1720 N.W. Marshall St., $694. 3RD LOW: Waterworks Supplies Co., 4455 S.E. 24th Ave., $733. Of Portland. Bids opened January 14.

WB 1-16. Previous report 1-10

STATE HIGHWAY PROGRAM— Olympia, Wash.

The highway program in the state for the period from July 1, 1957, through June 30, 1959, involves the proposed expenditure of $167,909,106 for construction, maintenance and administration, according to a budget released from the Washington State Highway Commission in Olympia.

New highway construction would require a total of $134,122,000 of which $52,955,379 would be from state funds and $80,126,621 from Federal aid. Of the $134 odd million, $113,224,027 would be spent on primary highway system. A large part of this money, a total of $62,555,177, is ear-marked for the interstate highway system (U. S. 10 and 99). Secondary highways would take $20,879,973, and maintenance of about 6,600 mi. of state highway would total $23,851,535. An amount of $1,833,200 would be spent for buildings and other capitol outlay purposes. DM 1-16

★CEMETERY EXCAVATION—Orting, Wash.

Award announced by G. Lee Sandritter, M. D., acting director, Department of Institutions, Olympia, for cemetery excavation at the soldier's home in Orting. Bids opened January 8. LOW BID: C. E. Skinner, Box 706, Orting, $2,717. OTHER BIDDERS: Barr Construction Co., 8824 John Dower Road, Tacoma, $4,135; Paine & Gallucci, Inc., 152 S. Grant, Tacoma, $4,309; Hanson Excavating Co., 11051 I St., Tacoma, $4,583; Paul Demeo, Buckley, $6,520. DE 1-11

GLEN CANYON DAM

Bid opening extended from February 28 to 10 a. m., March 28, by Bureau of Reclamation, Box 267, Kanab, Utah, for construction of the Glen Canyon dam and power plant, Arizona-Utah, Middle River Division, Colorado River Storage Project; Spec. No. 4825. Specifications with above office. Bid bond 5%. The work is situated on the Colorado River in Coconino County, Arizona, approximately 15 miles upstream from Lees Ferry, Ariz. Completion time 2,500 calendar days.

SP 1-12. Previous report 1-8

★AV GAS OPERATION STORAGE— Paine AFB, Wash.

Award to Roy T. Early Co., 321 Middle Waterway, Tacoma, $112,455, by Corps of engineers, Seattle District, 4735 E. Marginal Way, Seattle, for construction of AV gas operation storage at Paine AFB, Wash. ENG-45-108-57-56.

GW 1-12. Previous report 11-19

●FENCING— Paine AFB, Wash.

Bids will be opened 2 p. m., February 6, by U. S. Air Force, Purchasing and Contracting office, Paine AFB, for installation of security fencing at the base; Inv. No. 45-602-57-28. Specifications with contracting office.

Project involves installation of chain link fencing, three-strand barbed wire at the top, one single and two double gates in the flight line area; installation of same but with one single and one double gate at the reserve area; extension of fencing with installation of one single gate at Bldg. 517. HH 1-18

OVERHAUL BASE— Paine Field, Wash.

Plans announced by Transocean Air Lines, D. K. Clayton, Boeing Field, Seattle, by George Forbes, Snohomish County Airport manager, Paine Field, Everet, for establishment of an aircraft and engine overhaul base at Paine Field. Present plans call for limited operation because of limited facilities available but future plans call for expansion of facilities to enable the handling of jet military aircraft overhaul and jet engine test cells. HH 1-16

▲SEWAGE TREATMENT PLANT— Palouse, Wash.

Bids received by Harold E. Kimball, city clerk, City Hall, Palouse, for construction of a sewage treatment plant at Palouse. Plans and specifications by Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane. Bids opened January 8. LOW BID: Hefte Construction Co., E. 11607 Trent, Spokane, $79,995. OTHER BIDDERS: H. E. Schimmels Construction Co., Box 262, Dishman, $74,256; Warner & Brown Construction Co., N. 2904 Madelia, Spokane, $75,470; Murphy Bros., E. 3728 Broadway, Spokane, $76,900; Rudd Construction Co., 602 Realty Bldg., Spokane, $77,775; Hanson & Parr, W. 315 Boone Ave., Spokane, $81,756; S. G. Morin & Sons, W. 411 2nd, Spokane; Dunham Engineering & Construction Co., Box 42, Moscow, Idaho, $84,290; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, Ore., $86,500; J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore., $91,790; Commercial Builders, Box 14, Moscow, $96,443.

SP 1-12. Previous report 1-3

LINCOLN STREET LIGHTS— Port Angeles, Wash.

Bids will be called soon by City Council, City Hall, Port Angeles, for installation of new street lights for Lincoln St. in Port Angeles. The council has approved a plan for mercury-vapor lights similar to those on 1st St. from Lincoln St. to the city limits. City Manager G. S. Vergeer has asked for approval of the series type circuit on Lincoln St., as on E. 1st St., since he said some persons had asked for the type which provides for circuits to be plugged in, similar to those in the central downtown area. This plug-in type would add between $6,000 and $7,000 to the cost of the project. SC 1-11

★ROAD WORK, STOCKPILING— Prosser, Wash.

Award announced by Board of Benton County Commissioners, Courthouse, Prosser, for grading, draining and surfacing 5.07 mi. Badger Road from north and south center line of Section 14, easterly to PSH No. 8, and crushing and stockpiling crushed stone surfacing top course and base course at Horrigan Quarry; CRP No. 294. Bids opened January 10. AWARD: Grant Construction Co., Box 351, Coeur dAlene, Idaho, $57,857. OTHER BIDS: J. W. Hardison, Box 48,

Yakima, $60,764; Carl Hohner, E. 6208 Sharp Ave., Spokane, $61,777; C & E Construction Co., Box 1545, Spokane, $63,226; K. C. Dack, Box 35, Milton Freewater, Ore., $63,698; L. W. Vail Co., Box 847, Pasco, $63,957; Twin City Construction Co., 404 N. 7th St., Pasco, $75,438; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $83,504.
SC 1-12. Previous report 12-28

PAVING, CURBS, GUTTERS— Quincy, Wash.
(Estimated cost $850,000)

Hearing will be held 8 p.m., January 25, in the Pioneer Elementary School, by City Council, City Hall, Quincy, concerning the improvement of 1st Ave., 2nd Ave., 3rd Ave. and others by construction and installation of bituminous pavement and concrete curbs and gutters, together with the necessary drainage facilities. IG 1-8

▲DIESEL GRADER— Redmond, Wash.

Bids received by John B. Dodds, town clerk, Town Hall, Redmond, for one new tandem drive diesel powered grader having a minimum of 50 hp and minimum weight of 13,000 lb. Bids opened January 9. LOW BIDS: Howard-Cooper Corp., 5055 4th S., Seatttle, $11,895 (base bid) for Galion 303 (make); Collins Machinery Co., 4233 W. Marginal Way, Seattle, $12,277, for Caterpillar 212; Western Tractor & Equipment Co., 745 Lucile, Seattle, $12,565 for Adams 220. SP 1-15. Previous report 12-22

▲WATER METERS— Richland, Wash.

Bids received by Atomic Energy Commission, Richland, for installation of water meters for residential, commercial and industrial facilities. The low apparent on the basic bid was submitted by the J. P. Head Co. and low alternate by Cascade Engineering. Following are low bids submitted: J. P. Head Plumbing, Heating and Pipe Contractors, 3rd and Columbia, Pasco, $571,395 (basic bid involving inside installation), $679,170 (alternate involving outside installation); Cascade Engineering Co., Palo Alto, Calif., $746,952, $875,006; Petrocon Engineering Co., Compton, Calif., $644,784, $676,563; University Plumbing and Heating Co., 3941 University Way, Seattle, $646,300, $715,273. Bids opened January 14. DM 1-16

FAUNTLEROY FERRY TERMINAL— Seattle, Wash.

Bids on the Fauntleroy ferry terminal will be called sometime after construction has started on the Vashon Island terminal. Plans are being prepared by Cecil C. Arnold, consulting engineer, 511 Arctic Bldg., Seattle, and call for installation of new trestles, transfer stands, electric operating machinery, construction of double lane loading terminal.

Washington Highway Commission will call bids for the Washington Toll Bridge Authority. Charles E. Andrew, 3201 Fremont, Seattle, is chief engineer for the Authority. Fauntleroy project is part of the Fauntleray-Vashon-Harper ferry system on which a $1,000,000 bond issue has been approved for improvements to the system.
GW 1-9. Previous report 10-10

★WATERWORKS IMPROVEMENTS— Seattle, Wash.

Award by King County Water District No. 69 for the construction of water works improvements in ULID No. 1, Seattle. Plans by Gardner & Hitchings, consulting engineers, 613 Arctic Bldg., Seattle. AWARD: Shoreline Construction Co., 12519 15th Ave. N.E., Seattle, $10,830. Bids opened and held under advisement December 14.
GW 1-11. Previous report 12-8

PARK SITE DEVELOPMENT— Seattle, Wash.

A 10-acre site has been purchased by City Council, for the residents of the area to be served by the park development on former Olympic Golf Club property at 15th Ave. N.W. and W. 90th St., Seattle. Property adjoins the 15-acre site of the proposed new junior high school and will be developed as an integral unit. Petitions will be served as soon as the City Council and park department arrive at the boundary lines. Robert G. Hurd and Robert M. Cotter are co-chairmen of the improvement committee, 2313 W. 96th, Seattle. Plans call for landscaping, a sprinkler system, athletic fields, a play area with a wading pool and paved parking. Park Board engineers estimate cost at $66,522, to be raised by a local improvement district assessment. GW 1-11

▲SUBSTATION— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of the Broad St. substation in Seattle; Ord. No. 84656; Spec. No. 1474. LOW BID: Dale M. Madden, 3010 E. 163rd, $77,876. OTHER BIDS: C.B.S. Construction Co., 11115 7th Ave. N.W., $77,969; Hugh S. Ferguson, $80,385; Wayne Construction Co., 3810 Stone Way, $80,591; Baugh Construction Co., 922 Poplar, $81,701; West Coast Construction Co., 835 W. 48th, $84,650; Jentoft & Forbes, 927 W. 46th, $90,182; C & R Builders, Inc., 1619 8th Ave. N., $95,230. All of Seattle. Bids opened January 9.
GW 1-11. Previous report 1-5

★DRESSER COUPLINGS— Seattle, Wash.

Award to Waterworks Supplies Co., 4455 S.E. 24th, Portland, Ore., $1,342, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 1,240 dresser couplings.
GW 1-11. Previous report 1-8

★WASHERS— Seattle, Wash.

Award to North Coast Electric Co., 171 Jackson, Seattle, $2,085, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 5,000 galvanized spring washers, ¾" LMCo 369495X4. GW 1-11. Previous report 1-10

● STORM DRAINAGE IMPROVEMENTS— Seattle, Wash.

Bids to be opened 9:30 a.m., January 28, by King County Commissioners, 402 County-City Bldg., Seattle, for storm drainage improvements on the following three projects: 1—E. 175th St. from 1st Ave. N.E. to 5th Ave. N.E.; 2—Corliss Ave. and N. 163rd (King County garbage area); (3)—Palatine Ave., N. 193rd to N. 195th, Seattle. Plans will be available January 14 from the King County road engineer, D. L. Evans, 905 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: clearing and grubbing; 800 c.y. common trench excavation; 5,620 c.y. structure excavation; 18 c.y. crushed stone surfacing; 15 ton asphalt concrete plantmix; 2,164', 18" plain concrete culvert pipe; 360', 18" standard reinforced concrete culvert pipe; 762', 30" standard reinforced concrete culvert pipe; seven manholes; eight catch basins; one concrete header, 18" pipe; one concrete header 30" pipe. GW 1-12

● VALVES— Seattle, Wash.

Bids to be opened 10 a.m., January 22, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., for furnishing two pressure reducing check valves; 25, 8" gate valves; five, 16" gate valves. Specifications with city purchasing department, above address. GC 1-12

● STORM SEWERS— Seattle, Wash.

Bids to be opened 2 p.m., January 23, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of storm sewers in the Inveress Drive area, north of Sand Point Golf and Country Club, including Inverness Drive, Inverness Court N.E., 53rd Ave. N.E., 53rd Court N.E., Alley between lots 7 and 8, block 1 in Jay Roberts Country Club estates, and Alley between lots 7 and 8, block 2 in Jay Roberts County Club estates; Ord. No. 85377; LID No. 6137. Plans with city engineering department, 404 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 1,285', 10" concrete or clay pipe; 480', 10" cast iron pipe; 980', 12" concrete or clay pipe; 395', 12" cast iron pipe; 220', 15" concrete or clap pipe; 500', 24" concrete or clay pipe; miscellaneous manholes, catch basins and appurtenant items. W 1-15

▲SURFACING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for surfacing N. 185th Place, from the south line of the Plat of Pineway Terrace and Dayton Place, a length of 875' m/l, Road Improvement Distritct No. 12, Seattle. Plans by D. L. Evans, county road engineer, 905 County-City Bldg., Seattle. LOW BID: Washington Asphalt Co., 309 W. 39th, $4,012. OTHER BIDS: Lake City Gravel and Materials, Inc., 10728 Bothell Way, $4,153; S & S Surfacing Co., 8324 15th Ave. N.W., $4,539. All of Seattle. Bids opened January 14.
GW 1-15. Previous report 1-11

● WHARF REBUILDING— Seattle, Wash.
(Estimated cost $28,000)

Bids to be opened 2 p.m., January 24, by Port of Seattle, M. J. Weber, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for replacing deck timbers with approximately 57,000' of treated lumber, surfacing with 7,100 sq. ft. of cement concrete, north wharf at Pier 65, Seattle. Plans with Port of Seattle engineering division, above address. $50 deposit. Certified check, cashier's check or bid bond 5%. Completion time 60 calendar days. GW 1-15

● PILING REPAIR, REPLACEMENT— Seattle, Wash.

Bids will be opened 10:30 a.m., January 21, by Department of the Army, Procurement Division, room 300, Bldg. No. 1, Seattle Army Terminal, 1519 S. Alaskan Way, Seattle, for repairing and replacing piling at the Seattle Army Terminal; Inv. No. TC-45-045-57-60B. Specifications with above office. Bid bond 20%. SU 1-15

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KING COUNTY ROAD CONSTRUCTION—
Seattle, Wash.

The program announced by Washington State Highway Commission from its offices in Olympia for state highway construction in King County during the period from July 1, 1957, through June 30, 1959, allows a budget of $40,430,600. The proposed construction has been divided as follows:

STATE HIGHWAY No. 1-A—$168,200. 4.04 mi. light bituminous surface treatment on shoulders, Woodinville to boundary, 25.41 mi. rural pavement resurfacing.

STATE HIGHWAY No. 1-J—$287,500. 2.5 mi. resurfacing and channelization, signals, signs and illumination in City of Seattle.

STATE HIGHWAY No. 1-K—$39,000. 4.7 mi. pavement resurfacing Des Moines area, 5.4 mi. location Ambaum Road to Cloverdale St., channelization, signals, etc.

STATE HIGHWAY No. 1-L—$603,200. 3.5 mi. location and right of way for limited access facility, embankment protection, 1.38 mi. light bituminous surface treatment on shoulders, 2.38 mi. pavement resurfacing, channelization, etc., Tukwila, Burien, Renton area.

STATE HIGHWAY No. 1-V—$38,100. 8.89 mi. bit. resurfacing, 1 mi. lgt. bit. surfacing on shoulders, Pierce County line, Zenith area.

STATE HIGHWAY No. 2-A—$549,900. 2.6 mi. pavement resurfacing, 1.9 mi. lgt. bit. surface trmt., 2.63 mi. paving and bridges, Renton-Kennydale area.

STATE HIGHWAY No. 2-D—$71,000. 4 mi. pavement resurfacing, 3.10 mi. relocation, Kirkland-Redmond.

STATE HIGHWAY No. 5-A—$313,500. Green River, overflow bridges and 0.2 mi., Kent resurfacing.

STATE HIGHWAY No. 5-M—$109,400. Drainage, 1.7 mi. road location, 3.5 mi. lgt. bit. surf. trmt., 4.5 mi. pavement resurf., channelization, etc., Orillia-Tukwila section.

STATE HIGHWAY No. 15-B—$15,000. 5 mi. pavement widening, resurf., Monroe to Fall City.

STATE HIGHWAY No. 1—$6,139,750. 3.38 mi. grdg., surf., paving, bridges; 4.4 mi. track removal, resurfacing; 1.92 mi. grdg., paving, bridge; interchange; 18.11 mi. lgt. bit. surf. trmt.; 14.15 mi. pavement resurf.; channelization, etc., Seattle-Snohomish and Pierce County lines.

STATE HIGHWAY No. 2—$125,300. 3.17 mi. pavement widening; drainage; 7.95 mi. resurf., Seattle-Fall City-Redmond-Bothell.

STATE HIGHWAY No. 2, Bothell Branch—$174,200. 3.17 mi. pavement widening; over 8 mi. pavement resurfacing; drainage; lgt. bit. surf. trmt. on shoulders; channelization, etc., Seattle-Bothell-Redmond-North Bend.

STATE HIGHWAY No. 2, Renton Branch—$33,000. 5.6 mi. pavement resurf., Seattle-Issaquah.

STATE HIGHWAY No. 2, Milton-Auburn-Echo Lake Branch—$1,583,000. 7.17 mi. grdg., surf., paving, bridges; 4 mi. grdg., surf, paving; 16.40 road location.

STATE HIGHWAY No. 5, National Park Highway-Chinook Pass—$1,584,600. 3.10 mi. lgt. bit. surf. trmt, drainage; 5.2 mi. grading, bridge; pavement widening, resurfacing, channelization.

STATE HIGHWAY No. 5, Tacoma via Sumner to Auburn—$40,800. Over 1 mi. pavement resurfacing.

STATE HIGHWAY No. 5, National Park Highway, Enumclaw via Wilkeson to Mt. Rainier National Park boundary—$41,000. 0.17 mi. pavement widening, resurfacing.

STATE HIGHWAY No. 5, Maple Valley Branch—$117,000. Over 4 mi. pavement widening, resurfacing; 20 mi. lgt. bit. surf. trmt.; channelization, etc.

STATE HIGHWAY No. 5, Peasley Canyon Branch—$35,200. Pavement resurf., channelization, etc.

STATE HIGHWAY No. 15, Everett to Jct. PSH No. 2—$386,500. 8 mi. road location; 3.5 mi. grdg., surf., paving; channelization, etc.

STATE HIGHWAY No. 15, Bothell to Monroe—$40,140. 5.45 mi. grdg., surf., paving, bridges; roadside park. DM 1-16

▲FIRE SPRINKLER INSTALLATION—
Seattle, Wash.

Bids received by University of Washington, Nelson Walstrom, comptroller, Administration Bldg., Seattle, for the installation of a fire sprinkler system in portions of the existing first unit and the second unit under construction of the University Hospital Division of Health Sciences, University of Washington, campus, Seattle. Plans by Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. BIDS: National Automatic Sprinkler Co., 7526 S.W. Macadam Ave., Portland, Ore., $18,596; Sentry Automatic Sprinkler Co., 2716 A St., Tacoma, $19,442; Grinnell of the Pacific, Elliott and Bay, Seattle, $23,830; Viking Automatic Sprinkler Co., 1120 S. 8th, Seattle, $24,318; Rockwood Automatic Sprinkler Co., 506 2nd Ave., Seattle, $25,315; Automatic Sprinkler Corporation of America, 610 W. Idaho, Seattle, $26,246; Rushlight Automatic Sprinkler Co., Inc., 2437 Market St., Seattle, $29,706. Bids opened January 15.
GW 1-16. Previous report 1-3

TRINITY DAM BID CALL

Bid opening time extended from 10 a. m. to 2 p. m., February 5, by Bureau of Reclamation, L. B. Ackerman, project construction engineer, at Weaverville, Calif., for construction of Trinity dam, eight miles north of Lewiston, Calif., Trinity River Division, Central Project, Calif.; Spec. No. DC-4824. Specifications with reclamation offices in Denver, Colo.; Sacramento, Calif.; Weaverville.
SC 1-16. Previous report 12-19

●GALVANIZED PIPE FITTINGS—
Seattle, Wash.

Bids to be opened 10 a. m., January 22, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing galvanized pipe fittings. Specifications with purchasing department, above address. GW 1-16

●DETECTOR CHECKS— Seattle, Wash.

Bids to be opened 10 a. m., January 21, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing two, 6" model D.C. Hersey detector checks with city of Seattle hub and flange connections. Specifications with purchasing department, above address. GW 1-16

●METER PARTS— Seattle, Wash.

Bids to be opened 10 a. m., January 21, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing water meter parts. Specifications with purchasing department, above address. GW 1-16

▲DISCHARGE PIPE LINE—
Soap Lake, Wash.

Bids received by Bureau of Reclamation, P. R. Nalder, project manager, Box 368, Ephrata, for discharge pipeline from Wells F, H and M, Soap Lake Protective Works, about ½ mile southwest of Soap Lake, Grant County, Wash.; Spec. No. 117C-411. LOW BIDS: Jack Roberson, Inc., 865 "C" northwest, $45,938; Stidham Construction Co., and A. E. Hamlett, (joint venture), 1031 "C" southwest, 547,730; Burd & Bush Construction Co., 136 2nd N.E., $48,910. All of Ephrata. Bids opened January 15.
GW 1-16. Previous report 12-14

●WATER TANK ROOF— Spokane, Wash.

Bids will be opened 9:30 a. m., January 24, by City Council, City Hall, Spokane, for construction of a welded steel cone roof on a steel water tank, and for repainting another tank in Spokane. Specifications with city engineer at above office. SC 1-16

★SEWAGE TREATMENT PLANT, PUMP STATIONS— Spokane, Wash.

One award and one rejection by City Council, City Hall, Spokane, for construction of the sewage treatment plant (Division 1) and three pumping stations and equipment (Division 2) at Assembly and Longfellow, near the Spokane River in Spokane. Plans and specifications by Greeley & Hansen, consulting engineers, Chicago, Ill. DIVISION 1—AWARD: Max J. Kuney(N. 120 Ralph, Spokane, $1,830,750. DIVISION 2—BIDS REJECTED—LOW BID: Henry George & Sons, Hutton Bldg., Spokane, $132,439.
PN 1-16. Previous report 1-[illegible]

★PORTABLE CRANE PAINTING—
Tacoma, Wash.

Award to H. P. Fisher & Sons, 5252 Fontanelle Place, Seattle, $25,600, by 13th Naval District, Public Works Office, room [illegible] Building 232, U. S. Naval Station, Seattle, for cleaning and painting the exterior surfaces of 19 portal cranes at the U. S. Naval Station in Tacoma; NBy-6582; Spec. No. 6582/56. GW 1-15. Previous report 12-[illegible]

★SANITARY SEWER— Tacoma, Wash.

Award to Rogers Construction Co., Tacoma, $2,250, by Board of Contracts & Awards, David D. Rowlands, chairman, room 404, City Hall, Tacoma, for construction of a sanitary sewer in LID No. 1963, Tacoma.
SP 1-15. Previous report 12-[illegible]

★CHLORINATING EQUIPMENT—
Tacoma, Wash.

Award to Wallace & Tiernan, 2915 Western Ave., Seattle, $5,700, by Board of Contracts and Awards, David D. Rowlands, chairman, room 404, City Hall, Tacoma, for furnishing chlorinating equipment for the Marine View Pump Station and the North End Reservoir in Tacoma.
SP 1-15. Previous report 12-[illegible]

●GRADING, BALLASTING, PAVING—
Tacoma, Wash.

Bids will be opened 11 a. m., January 21, by Board of Contracts & Awards, room 404, City Hall, Tacoma, for work in five LID's in Tacoma. Specifications with above office. Certified check or bid bond 5%. Contractors may bid on one or more of the LID's.

LID No. 4582: Grading, ballasting, asphalt paving, concrete curb and gutter and storm sewer on Fife St. from S. 17th to S. 19th Street. - LID No. 4588: Grading, ballasting, asphaltic paving, concrete curb and storm sewers on S. C St. from S. 48th to S. 50th streets, S. D St. from S. 48th to S. 52nd streets, Fawcett Ave. from S. 49th to S. G streets, S. G St. from S. 48th to S. 53rd streets, S. 51st St. from D St. to Park Ave., S. 52nd St. from D St. to Park Aev., and S. 53rd St. from Fawcett Ave. to Park Ave. LID No. 4600: Grading, ballasting and asphalt paving the alley between Ainsworth and Grant avenues from S. 17th to S. 19th streets. LID No. 4603: Grading, ballasting, asphalt paving, concrete curb and gutter on Cedar St. from N. 29th to N. 30th streets, N. 39th St. from Monroe to Tyler streets, Shirley St. from N. 26th St. to the north line of Nelson's 2nd Additon. LID No. 4614: Grading, ballasting, asphalt paving, concrete curb and gutter on Adams St. from N. 9th to N. 12th streets, Cedar St. from N. 7th to N. 8th streets, N. 7th St. from Warner to Lawrence streets, and N. 8th St. from Cedar to Junett streets in Tacoma. SC 1-[illegible]

★STATION SERVICE TRANSFORMERS—
Vancouver, Wash.

Awards to Gardner Electric Manufacturing Co., Emeryville, Calif., (Items 1, 2, 3) $2,046, and Standard Transformer Co., Warren, Ohio, (Item 4) $3,457, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd. Portland, for furnishing and delivering fob Pasco, Wenatchee, Covington and Eavan Spur, Vancouver, Wash., 4 station service transformers; Inv. No. 8199.
WB 1-11. Previous report 11-[illegible]

★SUBSTATION LUMINARIES—
Vancouver, Wash.

Award to Philadelphia Electrical & Manufacturing Co., Philadelphia, $7,150, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for substation luminaires, fob Eavan Spur, Vancouver; Inv. No. 8219 (previous report erroneously listed bid number as 8129).
WB 1-11. Previous report 12-[illegible]

★TELESCOPING ANTENNA MAST—
Vancouver, Wash.

Award to Andrew California Corp., Claremont, Calif., $1,625, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Port-

land, for one lot of portable telescoping antenna mast; Inv. No. 8184.
WB 1-11. Previous report 11-6

★**POWER LINE CARRIER CURRENT EQUIPMENT—** **Vancouver, Wash.**

Awards to Westinghouse Electric Corp., U.S. National Bank Bldg., Portland, $41,084, and Motorola Communications & Electronics, Inc., Chicago, $24,002, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for carrier current coupling units, current line traps and carrier terminals, fob Eavan Spur, Vancouver; Inv. No. 8198.
WB 1-11. Previous report 12-14

★**PORTABLE COUPLING UNIT—** **Vancouver, Wash.**

Award to Radar Engineers, 403 E. 45th, Seattle, $1,169, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 16 portable coupling units, fob Eavan Spur, Vancouver; Inv. No. 8223.
WB 1-11. Previous report 12-13

★**ELECTRIC STEAM GENERATOR, ACCESSORIES—** **Vancouver, Wash.**

Award to Larry Harrington Co., Inc., 1989 N.W. Lovejoy St., Portland, $2,788, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for one electric steam generator and accessories, fob Eavan Spur, Vancouver; Inv. No. 8227.
WB 1-11. Previous report 1-3

●**CONTROL EQUIPMENT—** **Vancouver, Wash.**

Bids will be opened 2 p.m., February 1, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, 4 lots of supervisory control equipment for Portland Master Controlling Station, Oregon City Remote Controlled Station (included in Group 1) and for Santiam Master Controlling Station and Chemawa Remote Control Station (Group 2); Inv. No. 8259. Specifications with above office. Delivery time 180 calendar days.
SC 1-11

★**FIRE TRUCK; EQUIPMENT—** **Vancouver, Wash.**

Awards by city purchasing agent, 712 Washington St., Vancouver, for 1,000 gal. pumper truck with five-man cab and equipment. AWARDS—TRUCK: American-La-France Co., Elmira, N.Y., $19,695. EQUIPMENT: Munnell & Sherrill, 1163 N.E. 63rd Ave., Portland, (amount not available).
WB 1-15

●**AUTOMATIC REGULATING VALVES—** **Vancouver, Wash.**

Bid opening extended from 2 p.m., January 16 to 2:30 p.m., January 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, 15 automatic regulating valves; Inv. No. 8249. Specifications with above office.
SP 1-16. Previous report 1-2

VASHON FERRY TERMINAL— **Vashon Island, Wash.**

Bids will be called late in January by the Washington State Highway Commission for the Washington State Toll Bridge Authority on improvements to the Vashon Island ferry terminal. This is part of the Fauntleroy-Vashon-Harper ferry system improvements on which a $1,000,000 bond issue was recently approved. Plans are nearing completion by Cecil C. Arnold, consulting engineer, 511 Arctic Bldg., Seattle. Charles E. Andrew, 3201 Fremont, Seattle, is chief consulting engineer for the Washington Toll Bridge Authority.

Plans call for installation of new trestles, transfer stands, electric operating machinery, construction of double lane loading terminal.
GW 1-9. Previous report 10-10

★**WATER WORKS IMPROVEMENTS—** **Vashon Island, Wash.**

Award to S. C. Bard, Vashon Island, $8,863, by King County Water District No. 19, William D. Robinson, secretary, Vashon Island, for the construction of ULID No. 1, involving 4,000', 4" steel pipe together with valves, fittings and other appurtenances. Plans and specifications by Gardner & Hitchings, consulting engineers, 613 Arctic Bldg., Seattle.
GW 1-11. Previous report 12-5

GAS, ELECTRICAL SYSTEMS

Award has been made to Brown & Olds Plumbing and Heating Corp., El Paso, Texas, $1,067,800, by the Air Force Academy Construction Agency, Box 1670, Colorado Springs, Colo., for construction of the gas and underground electrical systems for the academy now being erected north of Colorado Springs.

Brown and Olds have finished the sanitary sewer system involving about 50,000' of sanitary sewer lines on the site east of the Rampart Range of the Colorado Rocky Mountains. Cost of the job was $271,000. The firm is now working on construction of utilities for the service and supply area of the academy under an $811,000 contract.
DM 1-11

▲**WATER PIPE—** **Veradale, Wash.**

Bids received by Vera Irrigation District No. 15, 601 N. Evergreen, Veradale, for supplying water pipe for replacing existing wood pipe in the district irrigation supply system. Specifications by H. E. Bovay, Jr., consulting engineer, 933 W. 3rd Ave., Spokane. Bids opened January 10. BIDDERS: H. D. Fowler Co., Inc., 901 Lane, Seattle, $189,054 (Sched. A), no bids on Sched. B, C, D, E. OTHER BIDDERS: Water Works Supply, 4455 S.E. 24th, Portland, Ore., $151,981 (Sched. C), $46,569 (Sched. E), no bids on Sched. A, B, D; Armco Drainage & Metal Products, Inc., N. 1202 Havana, Spokane, $158,659 (Sched. C), $48,950 (Sched. E), no bids on Sched. A, B, D; Consolidated Supply Co., W. 1121 Gardner, Spokane, $136,071 (Sched. B), $139,851 (Sched. C), $41,941 (Sched. D), $43,342 (Sched. E), no bid on Sched. A; Spokane Culvert & Fabricating Co., E. 6212 Main, Spokane, $150,335 (Sched. C), $46,149 (Sched E), no bid on Sched. A, B, D; Johns-Manville Corp., 777 Thomas, Seattle, $189,343 (Sched. A), no bids on Sched. B, C, D, E; Grinnell Co. of the Pacific, E. 909 Sprague, Spokane, $147,311 (Sched. C), $45,339 (Sched. E), no bids on Sched. A, B, D; Kellar Supply Co., Spokane, $175,615 (Sched. A), no bids on Sched. B, C, D, E.
HH 1-15. Previous report 12-28

●**TURBINE PUMP—** **West Richland, Wash.**

Bids will be opened 8 p.m., February 5, by Janie Faust, town clerk, Town Hall, West Richland, for installation of a turbine pump for a deep well in West Richland. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. $5 deposit.
IG 1-16

★**WELL—** **Walla Walla, Wash.**

Award announced by G. Lee Sandritter, acting director, Department of Institutions, Olympia, for drilling a deep well for use in irrigation on the prison farm, Washington State Penitentiary, Walla Walla. Bids opened January 7. AWARD: Yager Drilling Co., 118 Kenneth, Walla Walla, $8,135. 2ND LOW: A. A. Durand & Son, 115 W. Rees, Walla alla, $9,270. 3RD LOW: Moore & Anderson, 1322 W. Pine, Walla Walla, $10,926.
DE 1-11. Previous report 1-4

▲**IRRIGATION PIPE VALVES, APPURTENANCES—** **Yakima, Wash.**

Bids received by City Council, City Hall, Yakima, for purchasing pipe valves and appurtenances for the construction of irrigation systems in Yakima. Bids opened January 7. BIDDERS: Fosseen's, Inc., 101 W. Yakima Ave., Yakima, $4,404 (items 1-3, 13-26); H. D. Fowler Co., Box 3084, Seattle, $4,972 (items 1-26); Hallgren Co., 1252 1st Ave. S., Seattle, $1,285 (items 9-26); Consolidated Supply Co., 1121 Gardner St., Spokane, $1,480 (items 4-26); Tacoma Plumbing Supply Co., 315 S. 23rd St., Tacoma, $1,228 (items 4-12, 18-22); Inland Pipe & Supply Co., Box 587, Yakima, $262 (items 4-8, 22); Yakima Hardware Co., Box 1021, Yakima, $206 (items 4-8); Johns-Manville Co., 777 Thomas, Seattle, $3,544 (items 1-3).
IG 1-11. Previous report 12-26

★**SURFACING, BRIDGE—** **Yakima, Wash.**

Award announced by Yakima County Commissioners, Courthouse, Yakima, for grading, draining, manufacturing and stockpiling of additional materials for the Naches-Wenas and South Wenas roads, a total distance of 5.1 mi. Bids opened January 10. AWARD: C & E Construction Co., Box 1545, Yakima, $114,990. ONLY OTHER BID: R. H. Sussex, 2850 State Highway 2A, Bellevue, $126,569.
IG 1-11. Previous report 1-5

IDAHO

●**STATE HIGHWAY PROJECT—** **Boise, Idaho**

Bids will be opened 2 p.m., January 29, by Department of Highways, 603 Main St., Boise, for a highway construction project. Specifications with above office and with the district engineer in Lewiston. $2 charge. Completion time September 1, 1957.

CASTLE CREEK AND NEWSOME CREEK—Furnishing crushed gravel in stockpiles adjacent to State Highway No. 14, Idaho County; Idaho Stockpile Projects No. 138 and 139.

Quantities—No. 138: 10,000 ton crushed gravel base type "B," ¾" maximum. No. 139: 10,000 ton same.
SP 1-15

★**GRAVEL CRUSHING—** **Caldwell, Idaho**

Award announced by Canyon County Commissioners, Courthouse, Caldwell, for crushing 15,000 ton of gravel at the York and McCray sites in Caldwell. Bids opened January 7. AWARD: Nelson & Deppe, 3501 Mountain View Drive, Boise, $.42 per ton (York site), $.46 per ton (McCray site). OTHER BIDS: A. D. Stanley, 2901 Main St., Boise, $.48½, $.48½; Washington Sand & Gravel Co., Midvale, $.459, $.459; Wright Construction Co., Meridian, $.47, $.47. The Nelson & Deppe bid average $.44 for each site.
SC 1-15

IRRIGATION PROJECT— **Fort Hall Indian Reservation, Idaho**

(Estimated cost $1,000,000)

Bids will be called this spring or summer by Bureau of Indian Affairs, Portland Area Office, Branch of Land Operations-Irrigation, room 851, 1001 N.E. Lloyd Blvd., Portland, for additional work on the Michaud Flats irrigation project on the Fort Hall Indian Reservation, Fort Hall, Idaho. Work will include pumphouse and intake structure on Portneuf River, about seven miles below Pocatello, and 90" discharge line about 3,300' long.

The entire Michaud project is expected to be completed in 1962 at a cost of $5,500,000, and will irrigate 21,000 acres. Included will be two or three secondary pumping plants, canals and laterals (largely pipeline).
WB 1-16. Previous report 7-27

■**TRANSMISSION LOOP (PHASE 2)—** **Idaho Falls, Idaho**

(Estimated cost $1,500,000)

Bid opening of January 23 has been deferred pending revision of plans by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of 132 kv transmission loop (Phase 2) at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-879. Plans and specifications are being revised to eliminate the North Loop portion of the transmission loop and the 132 kv switching station designated at Station "A." A new bid opening date will be established by addendum.

Additional Planholders: Flora Construction Co., 765 Gilpin, Denver, Colo.; Fischbach & Moore, 646 N. Beachwood Drive, Los Angeles, Calif.; Hallett Construction Co., First National Bank Bldg., Box 248, Crosby, Minn.; Commonwealth Electric Co., 1901 Y St., Lincoln, Nebr.; Terry Contracting, Inc., 31 E. 27th St., New York; Utility Service, Inc., Box 1806, Colorado Springs, Colo.; Power City Electric, N. 920 Howard, Spo-

kane, Wash.; The Howard P. Foley Co., Box 1500, Salt Lake City, Utah; Kehne Electric Co., Inc., N. 416 Helena, Spokane; Morrison-Knudsen Co., Inc., Attn. Don Smith, 319 Broadway, Boise; Davies Electric Co. and J. B. Farquar Co., 945 W. Hawthorn St., San Diego, Calif. SP 1-15. Previous report 12-26

SEWAGE COLLECTION SYSTEM, DISPOSAL PLANT— Lewiston, Idaho

At a second election in January, property owners of the Lewiston Orchards Sewer District defeated a proposed $784,000 bond issue that would have financed construction of a sewage collection system and disposal plant. Walter L. Woodward, 206 Empire State Bldg., Spokane, is consulting engineer for the project. DC 1-12

★PORTLAND CEMENT, FLY ASH— Palisades Project, Idaho

Awards announced by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob shipping point or fob Ririe, Idaho, 7,500 bbl. portland cement in bulk (Sched. 1) and 500 ton fly ash in bulk (Sched. 2) for Palisades Dam and Powerplant, Palisades Project, Idaho; DS-4813. AWARDS—SCHED. 1: Idaho Portland Cement Co., Inkom, Idaho, $23,625 fob Inkom. SCHED. 2: Chicago Fly Ash Co., Chicago, Ill., $750 fob Chicago.
SP 1-16. Previous report 12-27

★FRONT-END LOADER—Pocatello, Idaho

Award to Sawtooth Co., 1115 Grove, Boise, $4,000 (second-hand with trade-in), by City Council, City Hall, Pocatello, for a front-end loader for the Idaho State College at Pocatello. EP 1-15. Previous report 1-3

MONTANA

★WATER SYSTEM EQUIPMENT, TRUCK CHASSIS— Billings, Mont.

Two awards have been made and action taken on two contracts which were deferred by City Council for purchasing supplies and equipment for the city. 1—Approximately 175, 150-lb. cylinders of liquid chlorine for sterilization of city water and new pipelines, and approximately 440 tons of ground sulphate of alumina of purified type in 100-lb. bags and carload lots. 2—One low service centrifugal pumping unit with electric motor for pumping water from Yellowstone River intake to Billings. 3—New 1956 or 1957 model truck chassis, gross vehicle rating 23,000 lb. Bids opened January 8. ITEM 1—CHLORINE—AWARD: Denver Fire Clay Co., Denver, Colo., $17.75 per 150-lb. cylinder. Action on alumina contract deferred. ITEM 2—LOW BID (action on contract deferred): Allis-Chalmers Co., 2501 4th Ave. N., Billings, $11,842. ITEM 3—AWARD: Interstate Truck & Equipment Co., 123 N. 15th St., Billings, $3,819. ONLY OTHER BID: International Harvester Co., 20 S. Broadway, Billings, $4,176. EE 1-15. Previous report 12-27

WATER MAIN— Billings, Mont.
(Estimated cost $4,100)

Yellowstone County Commissioners, Courthouse, Billings, have created RSID No. 367 for installation of a 6 water main on 367 for installation of a 6" water main on Poly Drive to Rimrock Road in Billings.
EE 1-16

▲FIXED-WHEEL GATE— Canyon Ferry Dam, Mont.

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one 12.78'x21.78' fixed-wheel gate for Helena Valley pumping plant intake at Canyon Ferry Dam, Missouri River Basin Project, Mont.; DS-4812. Bids opened January 8. LOW BID: Johnson Machine Works, Inc., Chariton, Iowa, $77,146, fob Chariton. ONLY OTHER BID: American Ligurian Co., Inc., New York, $87,800, fob Canyon Ferry, Mont.
SP 1-15. Previous report 11-27

★CONDENSATE RETURN LINES— Cut Bank AF Station, Mont.

Award to Ehlert Construction Co., 17 3rd St. S.W., Cut Bank, $15,724, by U. S. Air Force, Contracting Office, Bldg. T-1342, Malmstrom AFB, Mont., for replacing condensate return lines for the exterior steam distribution system at Cut Bank AF Station; IFB 24-604-57-35. Bids opened November 20 and were held under advisement.
SP 1-16. Previous report 11-16

★PENSTOCK— Helena, Mont.

Award to Commercial Steel Fabricators, Inc., subsidiary of Puget Sound Bridge & Dredging Co., 2929 16th S.W., Seattle, $161,000 fob Seattle, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for one 120" diameter steel penstock approximately 500' long with manifold; and one 75" diameter steel discharge pipe approximately 335' long with manifold and accessories, for Helena Valley Pumping Plant, Helena Valley Unit Helena-Great falls Division, Missouri River Basin Project, Mont.; DS-4797.
SP 1-15. Previous report 12-19

★STATE HIGHWAY PROJECT— Helena, Mont.

Award announced by Montana State Hiwy. Commission, Helena, Mont., for a highway construction project on which bids opened December 14.

SKALKAHO ROAD — Grading, draining 4.522 mi. in Ravalli County; F-161(4) Unit 1. AWARD: Kiely Construction Co., Drawer K, Butte, $216,825. LS 1-16. Previous report 12-1

Mr. Architect...

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SEWER SYSTEM— Kalispell, Mont.
(Estimated cost $425,000)

Improvement program tentatively approved January 7 by City Council, City Hall, Kalispell, for municipal water and sewer systems in Kalispell. The improvements are contingent upon a favorable vote on the projected bond issue which will be on the ballot at the regular city election in May. The program would include laying additional water mains from the principal city reservoir to the western part of Kalispell, construction of an elevated tank and additions to the sewer system. The council indirectly approved the program by voting to make application for increased water rates.
RB 1-1

TELEPHONE FACILITIES—Worden, Mont.

R.E.A. loan of $280,000 approved for Project Telephone Co., Worden, Mont., Fred Rauchle, president, and Pat Taylor, manager, Worden, Mont., to improve and extend rural telephone service in Yellowstone County. Company plans to build a new combination dial central office and headquarters building in Worden, a dial exchange in Huntley and 53 miles of new line. Of existing line, 29 miles will be rebuilt. Company now has 350 subscribers and will provide service for 285 additional families. WB 1-1

WYOMING

TV TOWER— Casper, Wyo.
(Estimated cost $16,000)

Construction will start soon by The Harriscope, Inc., for a 200' TV tower on N. Durbin St. between 1st and A streets in Casper. Tower will be constructed of open steel framework to withstand 110 miles per hour wind. SC 1-11

▲EARTHWORK, STRUCTURES, LATERALS, DRAINS— Rock Springs, Wyo.

Bids received by Bureau of Reclamation, Box 944, Rock Springs, for earthwork and structures, laterals and drains in Farson Area and drains in the West Side Area, near Farson, Eden Project, Sweetwater County, Wyo.; DC-4807. Bids opened January 8. LOW BID: Asbell Bros. Construction Co., Box 449, Riverton, $940,608; Sharrock & Pursel, Box 316, Casper, $1,026,129; Long Construction Co., Box 1291, Billings, Mont., $1,244,035. SP 1-15. Previous report 11-27

UTAH

★EARTHWORK, STRUCTURES, BRIDGE, SURFACING— Linwood, Utah

Award to Wangsgaard Construction Co., Logan, $143,912, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for earthwork, structures, bridge, surfacing, temporary access road to Flaming Gorge Dam, Flaming Gorge Unit, Utah-Wyoming, Green River Storage Project; Spec. No. DC-4779.
SP 1-11. Previous report 12-4

●WATER WELL— Monticello, Utah

Bids will be opened 3 p.m., February 4, by Atomic Energy Commission, Construction, and Supply Division, Grand Junction Operations Office, Grand Junction, Colo., for construction of a water well at Monticello. Specifications with above office.

Includes one well approximately 1,790' deep with 14" O.D. casing set from the surface to a depth of 205' and an 8⅝" O.D. casing set from the surface to the top of the Navajo formation which is approximately 1,400'. LV 1-16

●OUTLET SEWER— Ogden, Utah

Bids will be opened 5 p.m., January 21, in the office of the city manager, by R. S. Starley, secretary of Board of Trustees, City-County Bldg., Ogden, for construction

of outlet sewer No. 3, Section 4, in Ogden. Plans and specifications by consulting engineers, Grix, Mueller & Plowgian, 3930 Riverdale Road, Ogden, and Henningson, Durham & Richardson, Inc., 2962 Harney St., Omaha, Nebr. Bid bondd 5%.

Quantities: 2,793′ of 30″ reinforced concrete pipe; 1,920′ of 27″ same; 2,963′ of 24″ same; 11,853′ of 21″ same; 45 manholes; 58.5′ of 48″ tunnel liner pipe. GH 1-11

SEWAGE DISPOSAL PLANT—
Salt Lake City, Utah

(Estimated cost $6,000,000)

Preliminary plans complete and construction will start in 1958 for a new sewage disposal plant to be located on land near 1250 W. 15th North and a $1,500,000 sewage trunk line on Redwood Road to 21st South, taking in the west area of Salt Lake City. Working drawings underway by Clyde C. Kennedy, engineer, 604 Mission, San Francisco, Calif. GH 1-12. Previous report 12-22

●CONTROL, DISTRIBUTION BOARDS—
Weber Basin Project, Utah

Bids will be opened 2 p.m., February 28, by Bureau of Reclamation, Bldg., 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Ogden, one control board for Wanship Powerplant and one for Gateway Powerplant (Sched. 1, Items 1 and 2), one alternating- and direct-current power distribution board for Wanship Powerplant and one for Gateway Powerplant (Sched. 2, Items 3 and 4), and one static-type battery charger for Wanship Powerplant and one for Gateway Powerplant (Sched. 3, Items 5 and 6), for Wanship and Gateway Powerplants, Weber Basin Project, Utah; DS-4838. Specifications with above office. Delivery time 240 calendar days. Bids will be considered on any or all of the above schedules, but no bid will be considered for only a part of any schedule. SP 1-16

ALASKA

▲ELECTRICAL, TELEPHONE FACILITIES— **Anchorage, Alaska**

Bid received by George C. Shannon, city manager, City Hall, Anchorage, for construction of underground electrical and telephone facilities for the city of Anchorage; Work Order No. E-344. ONLY BIDDER: Macri Construction Co., Box 1079, Anchorage, $168,382 (base bid), $102,427 (alt.) SC 1-16

★GLENN HIGHWAY BRIDGES—
Juneau, Alaska

Award to J. J. Badraun, 109 N. 122nd, Seattle, $288,466, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for construction of four bridges located on the Glenn Highway at Miles 54.9, 61, 62.5 and 89.3, Third Judicial Division, Alaska.
JU 1-15. Previous report 12-19

● INDUSTRIAL SEWER—Ladd AFB, Alaska

Bids will be opened 2 p.m., February 15, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for construction of an industrial sewer at Ladd AFB; ENG-95-507-57-26. Specifications with above office and with Seattle branch office, 4735 E. Marginal Way, Seattle. Bid bond 20%. Completion date August 1, 1957. Work consists of constructing about 540′ of 10″ concrete or asbestos cement sewer, two manholes and a lift station complete with pumps and automatic controls. SP 1-15

▲BREAKWATER CONSTRUCTION—
Valdez, Alaska

Bids received by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for breakwater construction at the Valdez Harbor, Valdez; CIVENG-95-507-57-2. LOW BID: United General Contractors, Box 397, Seattle, $92,420. 2ND LOW: Herman J. Sontag, Construction Co., Valdez, $104,104. HIGH BID: Pacific Alaska Contractors, Box 676, Anchorage, $113,994. Engineer's estimate, $91,728. Five bids were received at the opening on January 11.
WG 1-15. Previous report 1-11

12 Major Equipment and Machinery Items . . .

. . . Invitations To Be Issued by Bureau of Reclamation

Bids will be called by the Bureau of Reclamation within the next three months on 12 major equipment and machinery items. Included among these will be transformers, control equipment, hoist, control system, gates, seats, guides, governors. Additional information may be obtained from the chief engineer, Building 53, Denver Federal Center, Denver, Colo., by referring to the title and number of the item.

BID CALLS EXPECTED IN JANUARY

MOBILE SPARE TRANSFORMERS (1-6)—Missouri River Basin Project, Mont. Three 5,000 kva, 110-69-34.5 kv mobile autotransformers complete with trailers. Bids to be called late in January. Delivery date April 1958.

CONTROL and STATION SERVICE EQUIPMENT, Gateway and Wanship Powerplants (1-9)—Weber Basin Project, Utah. Control and power boards and battery chargers. Bids to be called late in January. Delivery date October 1957.

SUPERVISORY CONTROL EQUIPMENT, Glendo Powerplant and Guernsey Switchyard (1-10)—Missouri River Basin Project, Wyo. One duplex-type control board panel for Glendo Powerplant (controlling station); one switchyard cubicle for Guernsey Switchyard (controlled station). Bids to be called late in January. Delivery date September 1957.

CONTROL BOARD PANEL, Casper Substation (1-11)—Kendrick Project, Wyo. One duplex-type control board panel. Bids to be called soon. Delivery date September 1957.

CONTROL BOARD PANEL, Anchorage Substation (1-12)—Eklutna Project, Alaska. One duplex-type control board panel. Bids to be called late in January. Delivery date October 1957.

BID CALLS EXPECTED IN FEBRUARY AND MARCH

HOIST (1-13)—Shoshone Project, Wyo. One 10-ton hoist for bulkhead gate. Estimated weight 95,000 lb. For Buffalo Bill Dam.

CONTROL SYSTEM (1-14) — Missouri River Basin Project, Mont. One hydraulic control system for two butterfly valves consisting of high-pressure oil pump, pipe fittings and valves and necessary electric controls enclosed in a metal cabinet. Estimated weight 5,000 lb. For Helena Valley Pumping Plant.

CONTROL SYSTEM (1-15) — Missouri River Basin Project, Mont. One hydraulic control system for fixed-wheel gate hoist consisting of high-pressure oil pump, pipe fittings and valves and necessary electric controls enclosed in a metal cabinet. Estimated weight 3,000 lb. For Helena Valley Pumping Plant.

GATES, SEATS, GUIDES (1-16)—Missouri River Basin Project, Mont. Four seven-foot, two-inch by four-foot 8-inch bulkhead gates, seats and guides for turbine draft tube. Estimated weights 5,875 lb. each. For Helena Valley Pumping Plant.

GOVERNORS (1-18) — Weber Basin Project, Utah. One gate-shaft-type governor for regulating the speed of a 2,000 hp turbine for Wanship Powerplant and two gate-shaft-type governors for regulating the speed of two 2,900 hp turbines for Gateway Powerplant.

GOVERNORS (1-19)—Missouri River Basin Project, Wyo. Two oil-pressure, cabinet-type actuator governors for regulating the speed of two 33,500 hp turbines for Fremont Canyon Powerplant.

MOTOR CONTROL EQUIPMENT (1-21)—Columbia Basin Project, Wash. One indoor, 2,500 volt, full-voltage starting controller for four 600 hp synchronous motors for White Bluffs Pumping Plant No. 1.

Bureau of Reclamation Lists 40 Major Projects . . .

. . . Scheduled for Bid Call Within Next Three Months

Forty major construction projects will be among bid invitations issued by the Bureau of Reclamation during January, February and March. Among these will be the earthfill Helena Valley dam about six miles northeast of Helena, Mont.; additions to the Anchorage substation for the Eklutna Project; diversion tunnel at Flaming Gorge dam site near Vernal, Utah; roads and buildings. For further information, contact L. N. McClellan, chief engineer for the Bureau, Denver Federal Center, Denver, Colo., referring to project by title and number.

BID CALLS EXPECTED IN JANUARY

DAM, Helena Valley (1-3)—Missouri River Basin Project, Mont. About six mi. northeast of Helena. Constructing a 75′ high, 2,800′ long earthfill dam with outlet works for municipal water supply, canal headworks and about one mile of operation and maintenance road.

Quantities: 75,000 c.y. excavation; 303,000 c.y. dam embankment; 316,000 c.y. excavation in borrow; 71,000 lb. reinforcing steel; 515 c.y. concrete in structures; 51,500 lb. metalwork. Completion time 550 days.

Bids will be called late in January by the chief engineer in Denver, Colo.

CANAL, Helena Valley (1-4) — Missouri River Basin Project, Mont. Near Helena. Earthwork and structures for about eight mi. of 14′ bottom width canal.

Quantities: 350,000 c.y. excavation for canal; 50,000 c.y. compact embankment; 6,600 c.y. excavation for structures; 40,000 c.y. backfill about structures; 350 c.y. concrete in structures; 1,550′ of 18″ to 36″ precast concrete pipe; one 78″ monolithic concrete pipe siphon involving 2,800 c.y. concrete and 483,000 lb. reinforcing steel or one 78″ precast concrete pressure pipe siphon, 3,750′. Completion time 500 days.

Bids to be called late in January by the chief engineer.

LATERALS, Block 20 (1-5) — Columbia Basin Project, Wash. Ten mi. northwest of Mesa. Earthwork and structures for about 85 mi. laterals and wasteways, and construction of eight minor relift pumping plants.

Quantities: 680,000 c.y. excavation for laterals and wasteways; 160,000 c.y. excavation from borrow; 175,000 mi. c.y. overhaul; 71,500 c.y. excavation for structures; 99,000 c.y. compact embankments; 54,000 c.y. backfill about structures; 2,000 c.y. concrete in structures; 22,500′ of 15″ to 66″ precast concrete pipe. Completion time 540 days.

Bids to be called late in January by chief engineer.

DRAINS (1-7)—Kendrick Project, Wyo. Near Casper. Earthwork and structures for about eight mi. of open drains.

Quantities: 50,000 c.y. excavation; 900 c.y. rock riprap; 700′ of 18″ to 36″ corrugated metal pipe; 224′ of 18″ to 27″ corrugated metal pipe arch. Completion time 200 days.

Bids to be called soon by regional director in Denver.

DRAINS, block 72 (1-9)—Columbia Basin Project, Wash. Near Quincy. Constructing DW38, 33, 36, 38A and W654D drains. Com-

pletion time to be determined.

Bids to be called soon by project manager, Ephrata.

DEEPENING DRAINS, WASTEWAYS, Blocks 41,42,43 (1-11)—Columbia Basin Project, Wash. Near Warden and Moses Lake. Deepening about 2.5 mi. DE229 drain, extending two culverts, reconstructing about 12 drain inlets, deepening about one mi. of EL31 wasteway, and removing and reconstructing a county road bridge in Block 42; deepening eight drains in Blocks 41 and 42; constructing about one mile of deep and semi deep drains on the DE53.5 and DE53.5A systems; constructing a road crossing and three pipe drain inlets in Block 43. Completion time to be determined.

Bids to be called soon by project manager, Ephrata.

TURNOUT REPAIRS, Block 72 and West Canal (1-16)—Columbia Basin Project, Wash. Near Quincy. Placing short sections of concrete lining adjacent to nine structures in Block 72, and placing anchor blocks and repairing turnout pipes on 13 turnout structures from the West Canal serving block 72.

Quantities: 4,000 c.y. excavation; 4,000 c.y. backfill; 4,000 c.y. compact backfill; 2,000 lb. reinforcing steel; 35 c.y. concrete. Completion time to be determined.

Bids to be called soon by project manager, Ephrata.

BID CALLS EXPECTED IN FEBRUARY AND MARCH

DIVERSION TUNNEL (1-21) — Colorado River Storage Project, Utah. Excavating in open cut and in tunnel for the 1,350' long, 26' diameter unlined right abutment diversion tunnel at the Flaming Gorge Dam site, on the Green River, 40 mi. north of Vernal.

Bids to be called by the chief engineer in Denver.

CANAL 1-26)—Columbia Basin Project, Wash. Wahluke Canal, nine mi. south of Othello. Earthwork and structures for about 4 mi. unreinforced concrete-lined canal with a 12' bottom width and about 3 mi. unlined canal wtih a 36' bottom width.

Bids will be called soon by the chief engineer.

PIPE LINES (1-28)—Weber Basin Project, Utah. About ten mi. north of Salt Lake City. Furnishing and laying about 21,000' of 24", 27" and 30" modified prestressed steel cylinder concrete pipe or mortar-lined and coated-steel pipe, and constructing a concrete-lined equalizing reservoir for the Davis Aqueduct trunk lines.

Bids will be called by the chief engineer.

SIPHON AND FLUMES (1-29) — Rogue River Basin Project, Ore. Near Medford. Constructing a 54" monolithic concrete of 51" modified prestressed steel cylinder concrete pipe siphon about 1,100' long, removing 5 wood-bent metal flumes and constructing two 5.5'x5.5' reinforced concrete bench flumes and a reinforced concrete cantilever wall.

Bids will be called by the chief engineer.

SIPHONS (1-30)—Rogue River Basin Project, Ore. Near Medford. Removing a 48" wood-stave pipe siphon and constructing a 60" monolithic concrete or 57" modified prestressed steel cylinder concrete pipe siphon about 1,940' long; removing a metal flume and constructing a 60" monolithic concrete or 60" precast concrete culvert pipe of 57" modified prestressed steel cylinder concrete pipe siphon about 155' long.

Bids will be called by the chief engineer.

PIPE LATERALS, PUMPING PLANT (1-31)—Weber Basin Project, Utah. South of Ogden. Constructing about 14 mi. Uintah Bench pipe laterals consisting of about 11 mi. of 12" to 36" precast reinforced concrete pipe, about 1.5 mi. of 12" to 24" precast concrete steel cylinder-type pipe and about 1.5 mi. of 8" and 10" steel or asbestos cement pipe, including pipe turnouts, manholes, blowoffs, air valves, gate valves and line meters. Constructing the P2.8R pumpplant which is to have four outdoor, horizontal booster units, two units having a total head of 225' and 9 cfs discharge, and two units having a total head of 365' and 8 cfs discharge.

Bids will be called by the chief engineer.

PIPE LATERALS (1-32)—Michaud Flats Project, Idaho. Near American Falls. Constructing 7.5 mi. welded steel pipe laterals for sprinkler-type irrigation.

Bids will be called by the regional director in Boise.

DISTRIBUTION SYSTEM (1-33) — Chief Joseph Dam Project, Wash. Near Brewster. Constructing the Brewster Flat distribution system.

Quantities: 8,000' of 4" to 30" steel pipe; 12,000' of 4" to 12" asbestos-cement pipe; appurtenant structures.

Bids will be called by the chief engineer.

LATERALS (1-34)—Columbia Basin Project, Wash. About 6 mi. northeast of Beverly. Earthwork and structures for about 30 mi. unlined open laterals, drains and wasteways with bottom widths varying from 12' to 2' in Block 84.

Bids will be called by the chief engineer.

LATERALS (1-35)—Columbia Basin Project, Wash. About ten mi. northeast of Beverly. Earthwork and structures for about 50 mi. unlined laterals, wasteways and drains with bottom widths varying from 14' to 2', Block 82.

Bids will be called by the chief engineer.

LATERALS (1-36) — Minidoka Project, Idaho. Near Rupert. Earthwork and structures for about 7 mi. open laterals with bottom widths of from 4' to 2', from 14 wells.

Bids will be called by the regional director in Boise.

LATERAL LINING (1-37)—Columbia Basin Project, Wash. Near Warden. Repairing lining and constructing a wasteway on the EL66 lateral system in Block 44.

Bids will be called by the project manager in Ephrata.

DRAINS (1-39)—Columbia Basin Project, Wash. Near Moses Lake. Constructing 6 open drains on the DE229 lateral system in Blocks 41 and 42.

Bids will be called by the project manager in Ephrata.

DRAINS (1-40)—Columbia Basin Project, Wash. Near Othello. Constructing the DPE-221A drain, extending 3 deep drains on the DPE216 system in Block 49, and constructing the DPE224C drain in Block 11.

Bids will be called by the project manager in Ephrata.

DRAINS (1-41)—Columbia Basin Project, Wash. Near Warden. Constructing about 3.5 mi. deep and semi-deep drains on the DE-44.5 systems in Block 43.

Bids will be called by the project manager in Ephrata.

DRAINS (1-42)—Columbia Basin Project, Wash. Near Quincy. Constructing three drains on the DW36 and DW35.8G systems in Block 72.

Bids will be called by the project manager in Ephrata.

DEEPENING DRAINS (1-44) — Columbia Basin Project, Wash. Near Moses Lake. Deepening 3 drains on the DE234 and DE235 systems in Blocks 41 and 42.

Bids will be called by the project manager in Ephrata.

DEEPENING DRAIN, WASTEWAYS (1-45)-Columbia Basin Project, Wash. Near Othello. Deepening one drain, constructing 7 new drains, 2 wasteways, and one pumping plant in Block 45.

Bids will be called by the project manager in Ephrata.

WASTEWAY (1-45)—Columbia Basin Project, Wash. WB-5 wasteway channel, fifteen mi. west of Mesa. Constructing a 165- to 29-cfs-capacity wasteway channel about 9 mi. long, including road crossings, drops, dikes, a small storage reservoir and a terminal chute into the Columbia River.

Bids will be called by the chief engineer in Denver.

WASTEWAY CHUTE (1-47) — Owyhee Project, Ore. About 15 mi. south of Nyssa. Constructing a rectangular reinforced concrete chute 8' wide, 4' deep, and about 1,600' long, and earthwork for an earth transition, about 100' long, to the chute.

Bids will be called by the chief engineer in Denver.

WELLS (1-49)—Minidoka Project, Idaho. Near Rupert. Additional drilling on eleven 8", 12" and 16" diameter drainage wells, and drilling and casing four 16" and 20" drainage wells with depths of from 200' to 400'.

Bids will be called by the regional director in Boise.

ROADS (1-50)—Missouri River Basin Project, Wyo. Near Glendo. Relocating 5 mi. Platte County road, and constructing 2.5 mi. permanent access road to Glendo Dam.

Bids will be called by the chief engineer in Denver.

ROAD GRAVELING (1-52) — Columbia Basin Project, Wash. Near Connell. Furnishing, placing, and stockpiling gravel for road surfacing in Block 18.

Bids will be called by the project manager in Ephrata.

SUBSTATION (1-53) — Missouri River Basin Project, Wyo. Guernsey substation. Dismantling temporary substation, grading and fencing the site, constructing a concrete foundations, furnishing and erecting steel structures, and installing a 115134.5-kv, 10,000-kva, 3-phase autotransformer and associated electrical equipment.

Bids will be called by the chief engineer in Denver.

SUBSTATION ADDITIONS (1-54)—Eklutna Project, Alaska. Near Anchorage. Constructing a 34.5-kv bay at Anchorage Substation. Work will include constructing concrete foundations, furnishing and erecting steel structures and a one-bay extension to existing 34.5-kv bus structure, and installing a 34.5-kv circuit breaker and associated electrical equipment.

Bids will be called by the chief engineer in Denver.

SUBSTATION ADDITIONS (1-57)—Missouri River Basin Project, Wyo. Additions to the Casper Substation will include constructing concrete foundations, furnishing and erecting minor steel structures and installing a Government-furnished 115-kv circuit breaker and related switching and metering equipment.

Bids will be called by the chief engineer in Denver.

TIE LINE, COMMUNICATION LINE (1-58—Provo River Project, Utah. About eighteen mi. northeast of Provo. Constructing 2,600' of 46-kv Deer Creek Powerplant tie line, 1,400' of 2,400-volt camp supply line, and 1,400' of combination signal and communication line.

Bids will be called by the regional director in Salt Lake City.

HOUSING, BUILDINGS (1-60)—Columbia Basin Project, Wash. Near Quincy and Moses Lake. Constructing two 3-bedroom frame residences with separate double garage in Block 77; two 2-bedroom frame residences with attached garages and full basements complete with water and sewerage facilities in Blocks 46 and 79; constructing an office building, storehouse, general purpose shop, equipment shelter building and one 2-bedroom frame residence with attached garage and full basement for additions to Burke Watermaster headquarters.

Bids will be called by the project manager in Ephrata.

HOUSING (1-61)—Columbia Basin Project, Wash. About 7.5 mi. north of Smyrna. Constructing two 2-bedroom frame residences with full basements, a separate 2-car garage, and one pumphouse in Block 81.

Bids will be called by the project manager in Ephrata.

HOUSING (1-62)—Weber Basin Project, Utah. About 38 mi. east of Salt Lake City. Constructing a 1,175 sq. ft., 2-bedroom, brick veneer residence with full basement.

Bids will be called by the regional director in Salt Lake City.

ROCK CASCADE DROPS, FLUME (1-63)—Provo River Project, Utah. About 18 mi. northeast of Provo. Earthwork for 6 rock cascade drops in creek bed and replacing small irrigation flume.

Bids will be called by the regional director in Salt Lake City.

ICE PREVENTIVE HEATING SYSTEM (1-65)—Yakima Project, Wash. Near Yakima. Furnishing and installing heating equipment, including rubber heating blankets, transformers, control board and wiring, for radial gate and roller gates at the Roza Diversion Dam.

Bids will be called by the chief engineer in Denver.

ICE PREVENTIVE HEATING SYSTEM (1-66)—Yakima Project, Wash. Furnishing and installing heating equipment, including rubber heating blankets, transformer, control board and wiring, for radial gates and wall plates at the Chandler Canal Headworks.

Bids will be called by the chief engineer in Denver.

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

Jan 22—Eugene—Lodge Furnishings 1-16
Jan 23—North Bend—Hospital 1-4
Jan 23—Portland—Training Center Repairs 1-3
Jan 23—Portland—Stage Equipment 1-3
Jan 24—Portland—Physical Education Building 1-15
Jan 24—Portland—Physical Education Building 1-16
Jan 29—Coos Head—Naval Facility 12-13
Feb 1—Portland—Dormitory, Dining Hall 1-12
Feb 4—Portland—Synagogue 1-12
Feb 7—Gold Beach—High School Addition 1-12

WASHINGTON

Jan 21—Everett—Heating System 1-3
Jan 21—Fort Lewis—Interior Repainting 1-8
Jan 22—Ephrata—Operation, Maintenance Housing 12-18
Jan 22—Mercer Island—School 12-29
Jan 22—Seattle—Junior High School Improvements 1-4
Jan 22—Walla Walla—Lighting Plant 1-4
Jan 23—Fort Lewis—Floor Replacement 1-5
Jan 23—Opportunity—Progress Elementary School Addition 12-22
Jan 23—Seattle—Catholic Church 12-7
Jan 24—Colville—Auto Shop Addition 1-9
Jan 24—Fort Lewis—Permanent Family Housing 1-5
Jan 24—Port Townsend—Port Office Alterations 1-2
Jan 24—Seattle—Vinyl Tile 1-12
Jan 24—Sunnyside—Irrigation District Office Building 12-13
Jan 24—Yakima—Gymnasium, Recreation Center 12-29
Jan 25—Anacortes—School 1-8
Jan 25—Curlew—Auto Shop Addition 1-9
Jan 25—Ephrata—Hospital 12-19
Jan 25—Olympia—Men's Residence Hall 1-3
Jan 29—Larson AFB—Hospital Building 12-14
Jan 29—Paine AFB—Hangar Lighting 1-12
Jan 29—Shelton—Multipurpose Building 1-8
Jan 29—Tacoma—H. F. Hunt Junior High School 1-5
Jan 30—Tumwater—School (Mechanical Contract) 1-15
Jan 31—Spokane—Electrical Modifications 1-9
Feb 1—Gifford—Elementary School 1-3
Feb 4—Richland—Move Dormitory Buildings 1-12
Feb 5—Pacific Beach—Naval Facility 12-13
Feb 6—Seattle—North Service Center 1-3
Feb 7—Seattle—Sunset Elementary School 1-16

IDAHO

Jan 31—Parma—Postoffice Site 12-6

MONTANA

Jan 21—Billings—Church 1-8
Jan 24—Glasgow AFB—Jet Test Cell 1-11
Feb 6—Great Falls—East Junior High School 1-9
Feb 6—Lewistown—Building, Utilities, TM Site 12-29

WYOMING

Jan 22—Warren AFB—Service Club, Dormitory 12-15
Jan 28—Casper—Southridge Elementary School 1-16
Jan 28—Cody—Grade School 1-9

UTAH

Jan 21—Hill AFB—Air Conditioning 1-12
Jan 22—American Fork—Boiler 1-9
Jan 23—Salt Lake City—Warehouse, Office Alteration 1-12
Jan 24—Ogden—Hillcrest Elementary School 1-10
Jan 29—American Fork—Heating Plant 1-15
Jan 29—Morgan—Memorial Building, Courthouse 1-16
Jan 30—Price—Library 1-12
Feb 1—Tooele—Equipment Installation 12-21

ALASKA

Jan 22—Adak—Naval Buildings, Utilities 12-14
Feb 12—Sitkinak—White Alice Facility 1-9
Feb 26—Sitka—Employe Residences 11-7

ENGINEERING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

Jan 21—Portland—Yoke Assemblies 1-9
Jan 21—Portland—Globe Valves 1-12
Jan 22—Portland—State Highway Projects 1-3, 1-9
Jan 23—Portland—State Highway Projects 1-3, 1-9
Jan 23—Portland—Grading 1-9
Jan 24—Portland—Gravel Production 1-15
Jan 24—Portland—Bitulithic Materials 1-15
Jan 30—Fosil—Telephone Line 12-15
Jan 30—The Dalles—Substation, Control House 1-8
Feb 6—Green Springs Power Plant—Generator 12-11

WASHINGTON

Jan 21—Bridgeport—Burner Fuel Oil 1-11
Jan 21—Everett—Clearing 1-8
Jan 21—Seattle—Piling Repair, Replacement 1-15
Jan 21—Seattle—Water Meter Parts 1-16
Jan 21—Seattle—Detector Checks 1-16
Jan 21—Tacoma—Power Cable 1-9
Jan 21—Tacoma—Grading, Ballasting, Paving 1-16
Jan 21—Vancouver—Automatic Regulating Valves 1-16
Jan 22—Ephrata—Turnout Stabilization, Lateral Repair 12-29
Jan 22—Everett—Asphalt, Asphaltic Concrete 1-15
Jan 22—Seattle—Valves 1-12
Jan 22—Seattle—Galvanized Pipe Fittings 1-16
Jan 22—Shelton—Steel Standpipe 1-5
Jan 23—Seattle—Storm Sewers 1-15
Jan 23—Tacoma—Road Widening 1-9
Jan 24—Vancouver—State Highway Projects 1-5
Jan 24—Spokane—Sewer, Paving 1-8
Jan 24—Spokane—Water Tank Roof 1-16
Jan 24—Seattle—Wharf Rebuilding 1-15
Jan 27—Richland—Water Meters 12-6
Jan 28—Alderwood Manor—Water Meters 1-5
Jan 28—Fort Lewis—Bituminous Pavements 1-9
Jan 28—Seattle—Storm Drainage Improvements 1-12
Jan 29—Moses Lake—Pump Control System 12-27
Jan 29—Olympia—State Highway Projects 1-10
Jan 30—Bremerton—Degaussing Car 1-9
Jan 30—Longview—Levee Improvements 1-5
Jan 30—Seattle—Crushed Gravel Surfacing 12-21
Jan 31—Ephrata—Earthwork, Structures 12-22
Feb 1—Coulee City—State Park Improvements 1-15
Feb 1—Ice Harbor Lock and Dam—Well, Pump Plant, Water Storage System 1-15
Feb 1—Vancouver—Control Equipment 1-11
Feb 4—Bellingham—Mower Tractor 1-15
Feb 4—Lynden—Dump Truck 1-15
Feb 5—Edmonds—Water Pipe 1-5
Feb 5—Ephrata—Earth Lining, Structures 1-4
Feb 5—West Richland—Turbine Pump 1-16
Feb 6—Paine AFB—Fencing 1-12
Feb 13—Bremerton—Air Raid System 1-15
Feb 13—Okanogan—Distribution Line 1-15
Feb 19—White Bluffs Pumping Plant—Power Transformer 1-4
Feb 21—Brewster—Pipe Lines 1-15
Feb 21—Bridgeport—Pipelines 12-27
Feb 24—Cashmere—Reinforced Concrete Reservoir 1-15

IDAHO

Jan 22—Boise—State Highway Projects 1-2
Jan 29—Boise—State Highway Project 1-15

MONTANA

Jan 21—Hot Springs—Capacitors 1-9
Feb 7—Canyon Ferry Dam—Hydraulic Hoist 12-29

WYOMING

Jan 22—Glendo—Power Plant, Power Conduit 12-26
Jan 29—Cody—Bulkhead Gate 1-10
Feb 1—Casper—Runway Extension 1-9
Feb 14—Glendo—Oil Purifier, Drying Oven 1-10
Mar 7—Thermopolis—Anchor Dam (Earthfill), Access Road 1-5
Mar 7—Thermopolis—Anchor Dam (Concrete), Access Road 1-5

UTAH

Jan 21—Ogden—Sewer Improvements 12-27
Jan 21—Ogden—Outlet Sewer 1-11
Feb 4—Monticello—Water Well 1-16
Feb 28—Weber Basin Project—Control, Distribution Boards 1-16

ALASKA

Feb 7—Elmendorf AFB—Taxiway Runway Access Stabilization 1-9
Feb 7—Ketchikan—Power, Water Facilities 1-5
Feb 15—Ladd AFB—Industrial Sewer 1-15

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.

MULTIPURPOSE BUILDING
BIDS CLOSE 8 P.M., P.S.T., JANUARY 29
Shelton, Washington
NOTICE TO CONTRACTORS

Notice is hereby given that Lower Skokomish School District No. 2, Mason County, Washington, will receive sealed bids up to 8:00 P.M. o'clock P.S.T. on 29th day of January, 1957 at the Lower Skokomish Elementary School, Mason County, Washington, at which time all bids will be opened and read in public for the construction of a 61 feet by 68 feet multipurpose building.

Each bid shall be in accordance with the plans and specifications now on file with County Superintendent, County Court House, Shelton, Washington, and at the office of James A. McGrath, Architect, Times Square Building, Seattle, Washington, where copies may be obtained upon a deposit of $25.00, which sum will be returned to the bidder upon return of the plans.

Each bid shall be accompanied by a certified check, cashier's check or bid bond payable to Lower Skokomish School District No. 2, Mason County, 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.

Lower Skokomish School District No. 2 reserves the right to reject any or all bids and to waive informalities in the bidding. Dated this 2nd day of January, 1957.

Charles H. Dillon
Clerk, Lower Skokomish School District No. 2
Mason County, Shelton, Washington

5705—1-10, 17, 24

ELEMENTARY SCHOOL
BIDS CLOSE 8 P.M., JANUARY 25
Anacortes, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 8:00 p.m., January 25, 1957, at the Office of the Principal, Fidalgo School, Fidalgo School District No. 2, Route 2, Anacortes, Skagit County, Washington, for Architectural, Mechanical and Electrical Trades Contracts for Construction of the Fidalgo Elementary School.

Contractors must submit a separate bid on the Architectural, Mechanical and Electrical Trades Contracts; or they may also submit a combination bid to include Architectural, Mechanical and Electrical trades under a general contract.

Plans, specifications and contract documents may be obtained by bidders at the office of William Arild Johnson & Associates, 3506 Broadway Avenue, Everett, Washington.

Each prime contractor will be allowed one set of drawings and specifications upon deposit as follows: Architectural, $25.000; Mechanical, $15.00; Electrical, $15.00.

Planholders who do not enter a bona fide bid and who do not return, unmarked and unmutilated, plans and specifications within five (5) days after they are issued, will forfeit their deposits. Additional sets remain the property of the Architect and shall be returned.

Each bid shall be accompanied by a certified check, cashier's check, or bid bond, made payable to Fidalgo School District No. 2, in an amount not less than five percent (5%) of the bid, plus all alternates. School board directors reserve the right to waive any informalities or irregularities in any bid or in the bidding, and may reject any or all bids.

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.

FIDALGO SCHOOL DISTRICT No. 2.
Ken Thibert,
Clerk of the Board.

5702—1-2, 9, 16

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., JANUARY 29
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, January 29, 1957, 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 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. Construction a Reinforced Concrete Box Girder Bridge and Reinforced Concrete Flat Slab Bridge on 0.090 mile of Primary State Highway No. 2 in King County, PSH NO. 5 OVERCROSSING, FAP No. F-046-1(4), involving about 1,500 cubic yards of Common Excavation, 400 tons of Selected Roadway Borrow, 110 cubic yards of Crushed Stone Surfacing, 3,313 cubic yards of Concrete, 834,000 pounds of Steel Reinforcing Bars, a lump sum bid for Structural steel, 3,120 linear feet of Concrete Piling and other items.
2. Clearing, Draining, Grading and Constructing a Reinforced Concrete Flat Slab Bridge on 5.038 miles of Primary State Highway No. 1 in Snohomish County, STIMSON ROAD TO STILLAGUAMISH RIVER BRIDGE, FAP No. IN-001-4(15), involving about 67 acres of Clearing, 189,300 cubic yards of Common Excavation, 104,460 cubic yards of Special Borrow, 85,500 units of Overhaul, 900 tons of Crushed Stone Surfacing, 300 tons of Bituminous Mix, 5,014 linear feet of Concrete Pipe, 756 linear feet of Corrugated Metal Pipe, 268 cubic yards of Concrete, 73,000 pounds of Steel Reinforcing Bars, 2,200 linear feet of Concrete Piling and other items.
3. Clearing, Draining and Grading on 1.222 miles of Primary State Highway No. 1 in Skagit County, JCT. SSH NO. 1-D TO ANACORTES, FAS No. S-0964(1), involving about 20 acres of Clearing, 620 cubic yards of Common Excavation, 160,010 cubic yards of Solid Rock Excavation, 25,940 tons of Selected Roadway Borrow, 912 linear feet of Concrete Pipe, 295 linear feet of Corrugated Metal Pipe and other items.
4. Draining, Grading, Surfacing and Stockpiling Crushed Stone Surfacing on 4.2 miles of a Benton County Road, OLD RELAND EMPIRE HIGHWAY, FAS No. 0402(1), involving about 17,290 cubic yards of Unclassified Excavation and Borrow, 61,245 tons of Crushed Stone Surfacing, Ballast and Crushed Cover Stone, 1,8 linear feet of Concrete Pipe and other items.
5. Draining, Grading and Surfacing on 7.8 miles of a Grant County Road, ADAMS ROAD, FAS No. S-1002(6), involving about 7.9 miles of Grading, 11,230 tons Crushed Stone Surfacing, 648 linear fe of Concrete Pipe, 794 linear feet of Corrugated Metal Pipe, 2,110 linear feet Right of Way Fence and other items.
6. Constructing Sheer Booms on Primary State Highway No. 1 in Cowlitz and Lewis Counties, KALAMA RIVER AND COWLITZ RIVER—SHEER BOOMS, State Project, involving about 6 MBM Timber and Lumber, 4,110 linear feet Timber Piling, 1,820 linear feet of Boom Logs and other items.
7. Installing Seven Illumination Systems Primary State Highway No. 1 in Skagit County, CONWAY JUNCTION TO ANDERSON ROAD, a State Project, involving 7 lump sum bids for Installation Illumination Systems.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5709—1-12, 19

OUTDOOR TRANSFORMER
BIDS CLOSE FEBRUARY 26
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4835) will be received at Denver, Colorado, until February 26, 1957, for furnishing one 5,000-kva, 110- to 34.5-kv, 3-phase, class OA, outdoor, power transformer, having tap changing-under-load equipment and tank mounted arresters for Watford City Substation, Missouri River Basin Project, North Dakota. Delivery is desired within 270 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5710—1-19

SCHOOL ADDITION
BIDS CLOSE 8 P.M., JANUARY 23
Opportunity, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Secretary of the Central Valley School District #356, Opportunity, Washington, at the offices of the School District, North 6th Pines, on or before Wednesday, January 23, 1957 at 8:00 P.M., P.S.T., for the construction of an addition to Progress Elementary School consisting of 10 classrooms, remedial, health, toilet, shower and locker rooms 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 $25.00 per set for general and $15.00 for electrical and mechanical.

The sets of plans and specifications will be on file at the following places:

Construction Council, W. 933 3rd Ave., Spokane, Washington

AGC Builders' Chapter, N. 1207 Washington St., Spokane

Associated General Contractors, 215 W. Harrison St., Seattle 99, Wn.

Builders' Exchange Cooperative, 317 Builders' Exchange Bldg., Portland 4, Ore.

Plan Bureau, 2413 Western Ave., Seattle 1, Washington.

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.

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 largest bid, made payable to the 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.

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

5704—1-8, 9, 10

GENERATOR

BIDS CLOSE MARCH 14

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4836) will be received at Denver, Colorado, until March 14, 1957, for furnishing one 4,500-kva. 100-percent power factor, 400 rpm, 4,160-volt, 3-phase, 60-cycle, vertical-shaft, air-cooled, outdoor, hydraulic-turbine-driven generator for Bix Thompson Power Plant, Colorado-Big Thompson Project, Colorado. Delivery is required within 530 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5711—1-19

GRADING

BIDS CLOSE 2 P.M., JANUARY 23

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, January 9, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address, P. O. Box 3900, Portland, Oregon, until 2:00 o'clock P.M., on January 23, 1957, for furnishing the material and performing the work for constructing 3.323 Miles Grading, Oregon Forest Highway Project 47-F1,G, Unit 1, North Umpqua Highway, Umpqua National Forest, Douglas County, Oregon, involving 3 Acres Clearing; 26 Acres Grubbing; 410,000 Cu. Yds. Excavation; 1,042,000 Sta. Yds. Overhaul; 2,508 Lin. Ft. Culvert Pipe; 60 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, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Division Engineer.

5706—1-12

BIDS CLOSE 10 A.M., P.S.T., FEBRUARY 5

CANAL LINING

Ephrata, Washington

NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, January 2, 1957. Sealed bids in single, (Specifications No. 117C-416) 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, February 5, 1957, and then publicly opened for furnishing labor and materials and performing all work for construction of Earth Lining, Concrete Lining, and Structures, East Low Canal Laterals—Block 18. This work will include 40,550 cu. yds. excavation, 210 cu. yds. backfill and compacting backfill, 21,500 cu. yds. compacted blended earth lining, 4,000 cu. yds. refill above lining, 4,000 cu. yds. gravel bedding, 60 cu. yds. coarse gravel, 42,000 mile cu. yds. overhaul, 896 cu. yds. concrete, 1350 barrels cement, 1300 lbs reinforcement bars, 28 lin. ft. 24-inch diameter standard-strength reinforced concrete culvert pipe, and alteration of existing structures. Time allowed for completion will be 80 and 90 days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.

5707—1-12

TRINITY DAM

BIDS CLOSE FEBRUARY 5

Weaverville, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4824) will be received at Weaverville, California, until February 5, 1957, for furnishing labor and materials for Trinity Dam, Central Valley Project, California. Location near Lewiston, California. Principal items are 9,150,000 cu. yds. of excavation; 21,400,000 cu. yds of excavation borrow and transportation to dam embankment; 100,000 cu. yds. concrete; installing 16-foot diameter steel penstock, gates, valves, trashracks and other metalwork; and other work. Completion time 1,800 days. For particulars, address Bureau of Reclamation, Weaverville, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5697—12-29

CONCRETE DAM, ACCESS ROAD

BIDS CLOSE FEBRUARY 28

Thermopolis, Wyoming

NOTICE TO CINTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4831) will be received at Thermopolis, Wyoming, until February 28, 1957, for furnishing labor and materials for Anchor Dam (concrete) and Access Road, Missouri River Basin Project, Wyoming. Location 35 miles west of Thermopolis, Wyoming. Principal items are 64,000 cu. yds. excavation for dam foundation; 63,000 cu. yds. concrete in dam; 60,000 bbls furnishing and handling cement; 78,000 cu. yds. excavation for roadway; and other work. Completion time 900 days. For particulars, address Bureau of Reclamation, P. O. Box 271, Thermopolis, Wyoming; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5698—12-29

EARTHFILL DAM, ACCESS ROAD

BIDS CLOSE FEBRUARY 28

Thermopolis, Wyoming

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4830) will be received at Thermopolis, Wyoming, until February 28, 1957, for furnishing labor and materials for Anchor Dam (earthfill) and Access Road, Missouri River Basin Project, Wyoming. Location 35 miles west of Thermopolis, Wyoming. Principal items are 71,000 cu. yds. excavation in open cut; 5,000 cu. yds. concrete; 585,000 cu. yds. excavation in borrow and transportation to dam embankment; 78,000 cu. yds. excavation for roadway; and other work. Completion time 900 days. For particulars, address Bureau of Reclamation, P. O. Box 271, Thermopolis, Wyoming; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5699—12-29

ELEMENTARY SCHOOL

BIDS CLOSE 4 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, Washington, at the office of the School Superintendent at Mercer Crest School, 86th S.E. and S.E. 42nd, Mercer Island, Washington, until 4:00 p. m., January 22, 1957, for the construction of the Island Park Elementary School, and will then be opened there and publicly read aloud. Bids received after the time set for opening cannot be considered.

Separate bids will be received for the General, Mechanical, and Electrical Work.

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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 $50.000 for General Work and $25.00 each for Mechanical and 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 largest bid, payable to Mercer Island School District No. 400.

The right is reserved to accept or reject any or all bids and to waive all 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.

Signed: ROBERT S. STUDEBAKER,
Clerk of School District.

5694—12-20, 27; 1-3, 10

HYDRAULIC-DRIVEN GENERATOR

BIDS CLOSE FEBRUARY 6

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4818) will be received at Denver, Colorado, until February 6, 1957, for furnishing and installing one 16,842-kva, 95 percent pf, 600-rpm, 4,160-volt, 3-phase, 60-cy, vertical-shaft, outdoor-type, alternating-current, hydraulic-driven generator, having water-cooled heat exchangers, for Green Springs Power Plant, Rogue River Basin Project, Oregon. Location near Ashland, Oregon. Completion time is 540 days for shipment and 120 days to install. 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.

5689—12-22

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., JANUARY 23

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland, Oregon, at 9:00 a.m. on Tuesday, January 22, 1957 and at 9:00 a.m. on Wednesday, January 23, 1957. Jobs listed with number only (2) are those included in the first notice. Jibs listed with a number and letter (2a) comprise the supplemental lists of jobs.

BIDS TO BE OPENED AT 9:00 A.M. ON TUESDAY, JANUARY 22, 1957

(1) COOS and DOUGLAS COUNTIES: Myrtle Point-Camas Valley Rock Production Project on the Coos Bay-Roseburg Highway, easterly from Myrtle Point. State Project. Requires approx. 10,000 cu. yds. crushed material in stockpile.

(2) DOUGLAS and JOSEPHINE COUNTIES: Azalea-Mackin Gulch Rock Production Project on the Pacific Highway, about 15 mi. south of Canyonville. State Project. Requires approx. 7,000 cu. yds. crushed material in stockpile.

(2-a) DOUGLAS COUNTY: Missouri Bottom-Fords Bridge Unit, Myrtle Cr.-Canyonville Section of the Pacific Highway, about 2.5 mi. south of Myrtle Creek. Federal Interstate Project No. I-78(31). 3.27 mi. of grading. Requires approx. 910,000 cu. yds. excavation; 160 cu. yds. concrete; 25,000 lbs. metal reinf.; 2,100 rods Type 2 fence; 12,200 cu. yds. crushed base materials; 80 tons 120-150 asphalt; and 34 tons RS-1 asphalt.

(2-b) LANE COUNTY: Eugene Traffic Signal Installation. State Project. Install traffic signals at the intersection of Sixth and Seventh Avenue on Garfield Street in the City of Eugene.

(2-c) LINCOLN COUNTY: Big Creek Park Overnight Camp Expansion Project, about 3 mi. south of Waldport. State Project. Construction of camping area and roadways. Requires approx. 3,300 cu. yds. excavation; 75 lin. ft. 12-in. conc. pipe; 100 lin. ft. 18-in. conc. pipe; and 730 cu. yds. crushed base materials.

(2-d) LINCOLN COUNTY: Big Creek Park Camp Facilities Expansion Project, about 3 mi. south of Waldport. State Project. Requires construction of utility building; and service facilities for 20 trailer stalls.

(2-e) MARION COUNTY: Sublimity Gun Club-Stout Creek Section of the North Santiam Highway, in the vicinity of Sublimity, Stayton and Mehama. FAP No. S-220(8). 9.28 mi. of paving. Requires approx. 19,900 cu. yds. excavation; 8,300 lin. ft. guard rail; 280 sight posts; 167,600 cu. yds. crushed base materials; 280 tons RC-3 asphalt; 34,500 tons asphaltic concrete mixture; 2,070 tons 85-100 asphalt; 170 tons RS-1 asphalt; and 380 tons 120-150 asphalt.

(2-f) TILLAMOOK COUNTY: Cape Lookout Park Overnight Camp Expansion Project, about 10 mi. southwest of Tillamook. State Project. Construction of camp area, roadways and footpaths. Requires approx 5,200 cu. yds. excavation; 300 lin. ft. 18-in. conc. pipe; and 1,850 cu. yds. crushed base materials.

(2-g) TILLAMOOK COUNTY: Cape Lookout Park Camp Facilities Expansion Project, about 10 mi. southwest of Tillamook. State Project. Requires construction of one standard latrine and one utility building, with water, electric and sewer systems.

(2-h) TILLAMOOK COUNTY: Tillamook-Donaldson Section of the Wilson River Highway, east from Tillamook. FAP No. F-191 (14). 3.92 mi. of paving. Requires approx. 20,000 cu. yds. excavation; 250 cu. yds. concrete in box culvert, curbs and islands; 2,600 lbs. metal reinf.; 1,200 lin. ft. guard rail; 140 sight posts; 67,000 cu. yds. crushed base materials; 110 tons RC-3 asphalt; 16,000 tons asphaltic concrete mixture; 960 tons 85-100 asphalt; 68 tons RS-1 asphalt; and 130 tons 120-150 asphalt.

(3) UMATILLA COUNTY: Cayuse-Thornhollow Section of the Adams-Cayuse County Road, about 12 mi. east of Pendleton. FAP No. S-328(1). 5.26 mi. grading and oiling; also construction of 2 reinf. concrete bridges. Requires approx. 77,800 cu. yds. excavation; 220 lin. ft. guard rail; 37,300 cu. yds. crushed base materials; 110 tons MC-2 asphalt; 230 tons 120-150 asphalt; 70 tons RS-1 asphalt; 130 cu. yds. concrete; and 24,000 lbs. metal reinforcement.

(4) UMATILLA and UNION COUNTIES: Pendleton-Hilgard Rock Production Project on the Old Oregon Trail Highway, southeast from Pendleton. State Project. Requires approx. 15,000 cu. yds. crushed materials in stockpile.

BIDS TO BE OPENED AT 9:00 A.M. ON WEDNESDAY, JANUARY 23, 1957

(4-a) CLATSOP COUNTY: Fort Stevens Park Overnight Camp Expansion Project, about 3 mi. northwest of Warrenton. State Project. Construction of camp area and roadways. Requires approx. 2,800 cu. yds. excavation; 80 lin. ft. 12-in. conc. pipe; 2,000 cu. yds. crushed base materials; and 110 cu. yds. crushed aggregates in stockpile.

(4-b) CLATSOP COUNTY: Fort Stevens Park Camp Facilities Expansion Project, about 3 mi. northwest of Warrenton. State Project. Requires construction of one standard latrine and one utility building, with water, electric and sewer systems.

(5) JOSEPHINE COUNTY: Louse Creek-Grants Pass Section of the Pacific Highway, north from Grants Pass. Federal Interstate Project No. I-138(7). 2.58 mi. of paving; also 4,000 cu. yds. crushed material in stockpile. Requires approx. 32,000 cu. yds. excavation; 2,000 lin. ft. metal conc. pipe; 520 lin. ft. 6-in. steel pipe; 60 cu. yds. concrete curbs; 100 metal sight posts; 11,790 lin. ft. metal guard rail and median barrier; 1,700 rods Type 2 fence; 70,600 cu. yds. crushed base materials; 160 tons RC-3 asphalt; 27,300 tons asphaltic conc. mixture; 1,638 tons 85-100 asphalt; 78 tons RS-1 asphalt; 140 tons 120-150 asphalt; and 4,000 cu. yds. crushed maintenance materials in stockpile.

(6) JOSEPHINE COUNTY: Hayes Hill-W Fork Illinois River Rock Production Project on the Redwood Highway, about 25 mi. southwest of Grants Pass. State Project. Requires approx 9,000 cu. yds. crushed materials in stockpile.

(6-a) POLK COUNTY: Illumination Installation on the Dolph Corner-Rickreall Section of the Willamina-Salem Highway. State Project. Install a complete highway lighting system at the Rickreall Junction, involving 16 mercury-vapor luminaires.

(7) WALLOWA COUNTY: Enterprise Rock Production Project on the Wallowa Lake and Enterprise-Lewiston Highways. State Project. Requires approx. 12,800 cu. yds. crushed materials in stockpile.

(8) WASHINGTON COUNTY: W. City Limits-Main St. (Beaverton) Section of the Farmington Highway, in Beaverton. State Project. 0.44 mi. grading and paving. Requires approx. 2,000 cu. yds. excavation; 200 cu. yds. concrete in curbs, drives and walks; 3,080 cu. yds. crushed base materials; 1 tons RC-3 asphalt; 1,800 tons asphaltic concrete pavement; and 4 tons RS-1 asphalt.

(9) WHEELER and GILLIAM COUNTIES: Thirtymile Creek-Service Creek Rock Production Project on the John Day Highway, near Condon. State Project. Requires approx. 12,800 cu. yds. crushed materials in stockpile.

(9-a) YAMHILL COUNTY: Wallace Bridge-Sheridan Section of the Salmon River Highway, east and west of Sheridan. FAP No. F-300(10). 6.25 mi. of paving; also 0.64 mi. temporary connection oiling. Requires approx. 11,400 cu. yds. excavation 13,800 lin. ft. guard rail; 270 metal sight posts; 23 rods Type 2 fence; 160 cu. yds. concrete in islands; 117,900 cu. yds. crushed base materials; 220 tons RC-3 asphalt; 28,200 tons asphaltic concrete mixture; 1,700 tons 85-100 asphalt; 144 tons RS-1 asphalt; and 23 tons 120-150 asphalt.

The minimum hourly wage rates to be paid to labor employed on the above advertised interstate projects have been predetermined by the Secretary of Labor and are set forth in the special provision 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

5708—1-10

PIPELINES

BIDS CLOSE FEBRUARY 21

Bridgeport, Washington

NOTICE TO CONTRACTORS

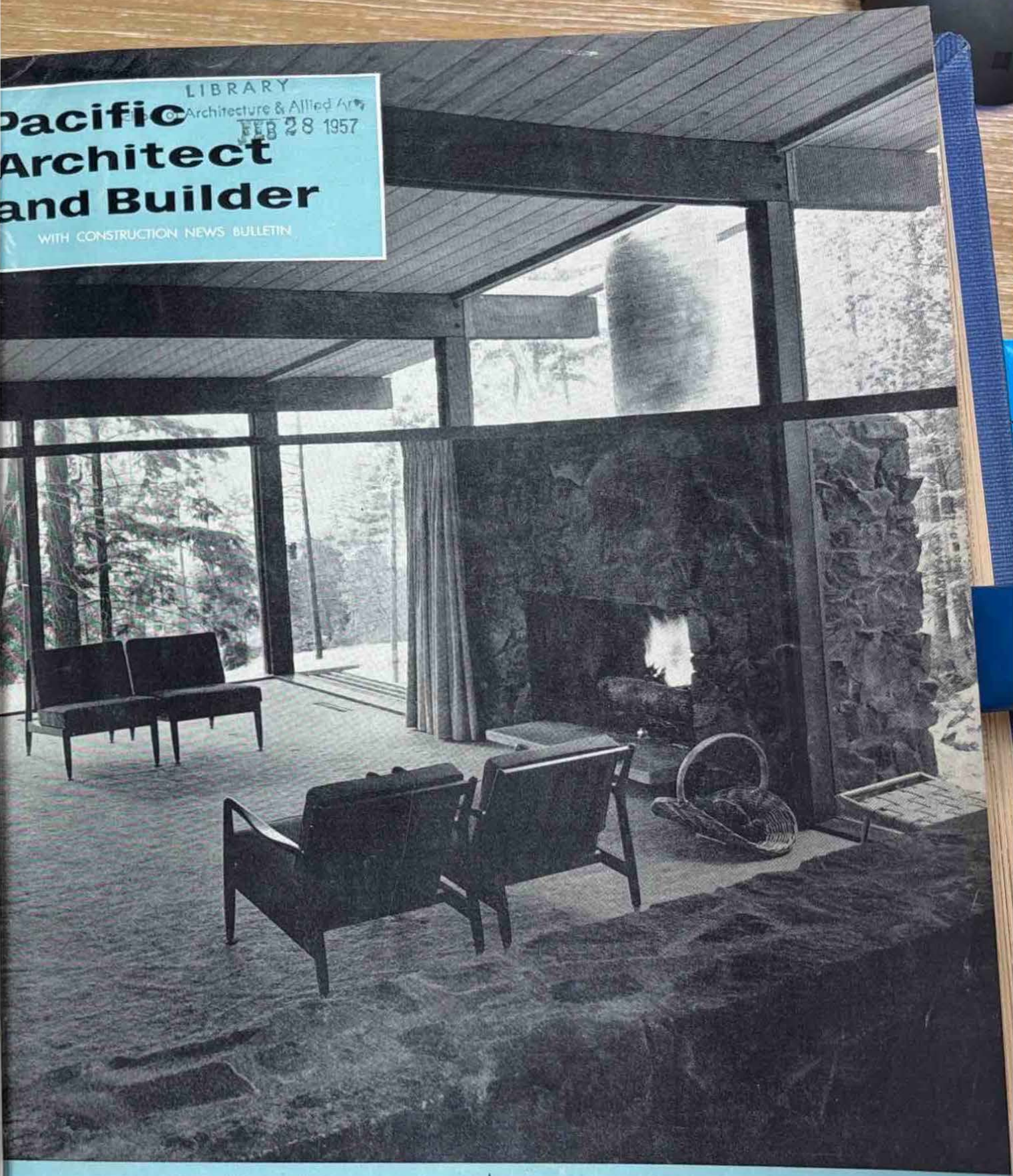
DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4829) will be received at Bridgeport, Washington, until February 21, 1957, for furnishing labor and materials for Pipe Lines for Brewster Flat Distribution System, Chief Joseph Dam Project, Washington. Location near Brewster, Washington. Principal items are approximately: 30,000 cu. yds. excavation; 81,000 lin. ft. steel pipe, various sizes; 12,000 lin. ft. asbestos-cement pipe; various valves and accessories; and other work. Completion time 400 days. For particulars, address Bureau of Reclamation, P. O. Box 705, Bridgeport, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5701—12-29

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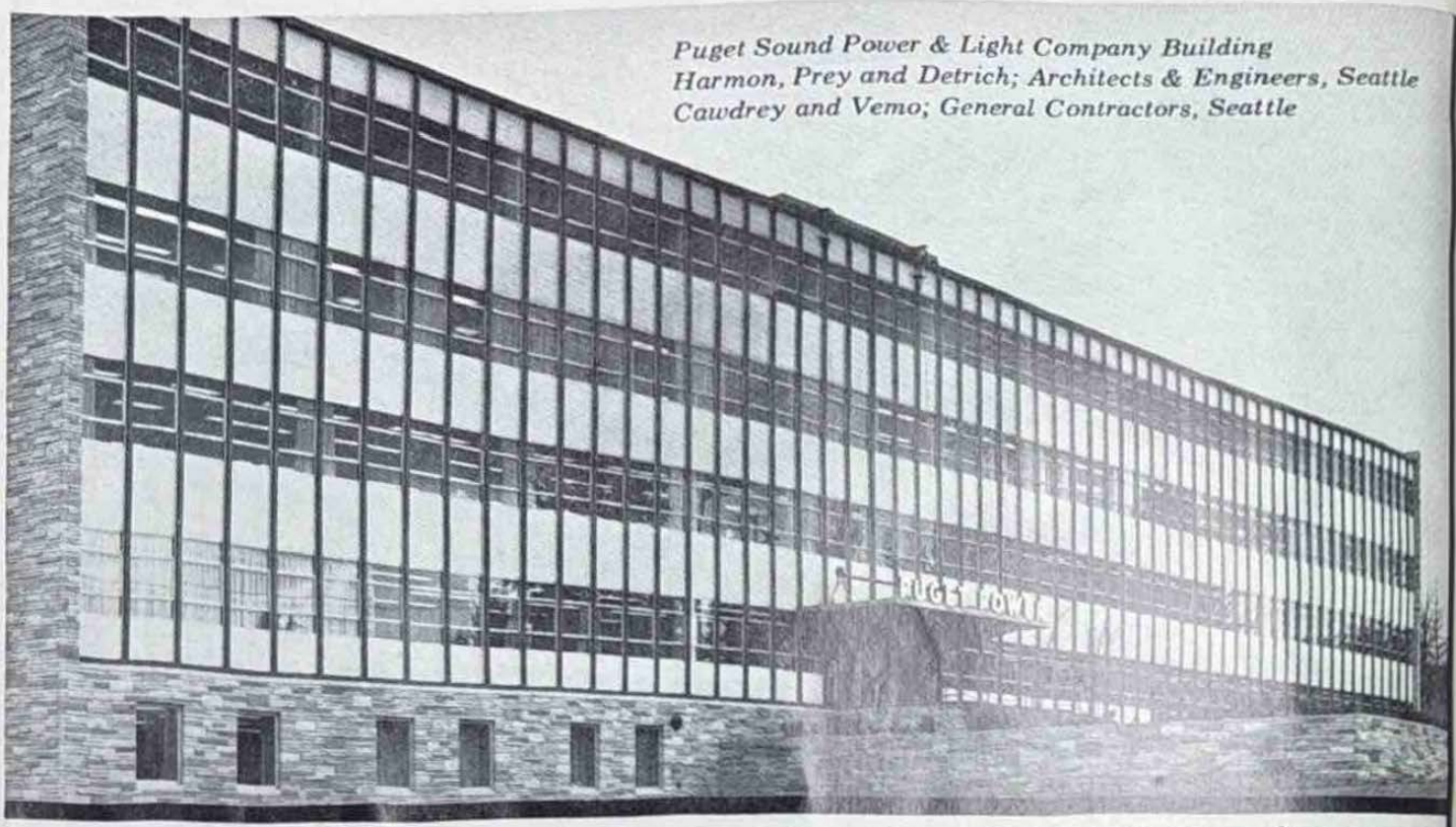
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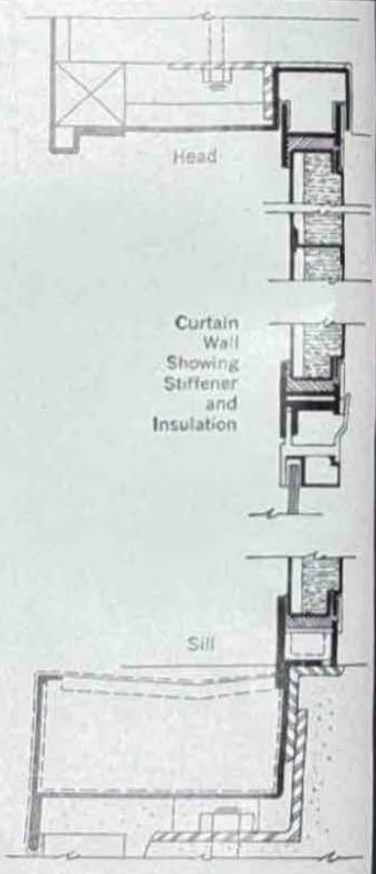
House that pays homage to the site
Los Angeles restaurant minus the schmaltz
Aesthetic value of materials in architecture

FEBRUARY 1957



Puget Sound Power & Light Company Building
Harmon, Prey and Detrich; Architects & Engineers, Seattle
Cawdrey and Vemo; General Contractors, Seattle

The exterior face of the Fentron panel is porcelain enamel over 16-gauge USS Vitrenamel Sheet. Interior is 14-gauge USS Cold Rolled Sheet with insulation sandwiched between. "u" factor is .104. These panels are effective as covers for spandrels and columns, and as mullions complete with windows.



Prefab steel walls hold down building costs

UP, up, up go the costs of new building construction. One bright spot in this picture is the more economical building method using factory-built wall panels of stainless or porcelain enamel steel. These curtain walls are *fast to erect*, provide *more usable floor space*, permit earlier occupancy and sharply *reduce maintenance*. For the architect, this versatile and economical exterior treatment offers floor-to-floor panels that can be designed to harmonize with any architectural expression.

Here in the West, a number of companies have developed their versions of packaged steel walls fabricated from United States Steel Sheets. These curtain wall systems are figuring prominently in recent Western construction . . . from skyscrapers on down to one-story industrial buildings. In Bellevue, Washington, for example, the new Puget Sound Power & Light Company building (above) used curtain wall panels fabricated and erected by Fentron Industries, Inc., Seattle, Washington.

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120 Montgomery Street, San Francisco 6

USS

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SCR

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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 ⅜" 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 William Clark School at "in-the-wall" costs competitive with non-masonry construction. Total cost of this school was $11.54 per sq. ft. of floor area. SCR requires no extra surfacing and offers the extremely low maintenance associated traditionally with the beauty of brick.



2½ TIMES as many bricks by volume were used in interior walls as used in exterior walls for Portland's William Clark Elementary School. Note special bullnose SCR brick. Architect: HOLLIS JOHNSTON, A.I.A. General Contractor: A. C. EDMON. Masonry Contractor: M. W. SMALLEN.

SCR

dry press brick
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Pacific Architect and Builder

VOLUME 63, NO. 2 FEBRUARY 1957



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THE COVER

Thomas J. Graham residence, Seattle (p. 18). A. O. Bumgardner, architect; Art Hupy photo.

Four Seattle area projects by A. O. Bumgardner

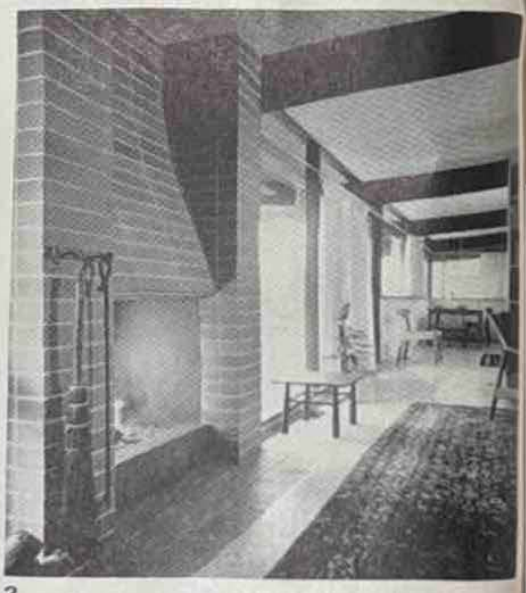


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1. Miller-Pollard Furnishings Showroom. Balcony for interior planning bridges sales floor.
2. A. O. Moore Residence. Large family house overlooking Puget Sound in Normandy Park. L. R. Owen, contractor.
3. Rev. Edwin Bracher Residence (in association with partner Gene Zema). Budget house for couple whose children are grown. George Watts, contractor.
4. Volunteer Fire Station, King County Fire District 20 (Skyway). Honor Award. 1954, Washington State Chapter, AIA; second prize, 1954, Unit Masonry Association competition. Rowland Construction Co., contractor.



3

4



Introducing PA&B's architectural advisor

ON THE SECOND ANNIVERSARY of Pacific Architect and Builder's expanded coverage into California, we are happy to announce the appointment of an architectural advisor. A. O. Bumgardner, AIA, will head an informal advisory board which will review all design projects submitted for publication.

To help familiarize our readers with Bumgardner's work, we are featuring his Graham residence, winner of a 1956 Honor Award from the Washington State Chapter, AIA, as our cover story; across the page are four other examples from his drawing board. And for good measure, on page 24 we show the office which he shares with Gene Zema, AIA, who designed it. (The architects are associated in designing the Northwest house for the Homestyle Center in Grand Rapids, Mich.)

Bumgardner's primary source of practice is residential, divided into two general categories: houses for older people at or nearing the retirement age and houses for families with children bursting through early teens. For the past 1½ years he also has served as consultant to West Seattle General Hospital for a renovating program which varies from redesigned letterheads to functional changes such as surgery room remodeling.

We have chosen to feature the Graham house not only because we feel it expresses one of the finest house-to-site relationships in the Northwest but also because it reflects Bumgardner's basic philosophy —that a better design usually results when the architect takes his clients into his confidence through the design process. Thus an architect helps fulfill one of his missions in widening the aesthetic horizons of those whom he serves. When clients understand the house—or any building—and its design concepts, the house can wear well and grow old with some of the grace with which houses of an older generation did.

* * *

The appointment of an architectural advisor is part of our long-range program to better serve the entire building industry in the territory we cover: California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii. In addition to raising our editorial standards, we also will more vigorously report news, methods and materials, making PA&B the practical working tool we intend it to be.

Perhaps it is fitting to quote from our editorial of February 1955, which we believe sums up the function of a regional building publication:

"Ours is the task of ferreting out the most feasible and satisfatcory new ideas, new building methods, design factors and adaptations of materials and products. We'll present them in practical capsule form, with pictures and cost units, so that our pages will provide an interchange of all that is worthwhile in Pacific Coast architecture and building methods.

"We are not unmindful of the challenge and responsibility that accrues in serving a $4 billion annual industry in an area of 1,140,000 sq. mi. wherein reside 15,795,000 of the country's most rugged individualists."

Robert E. Koehler

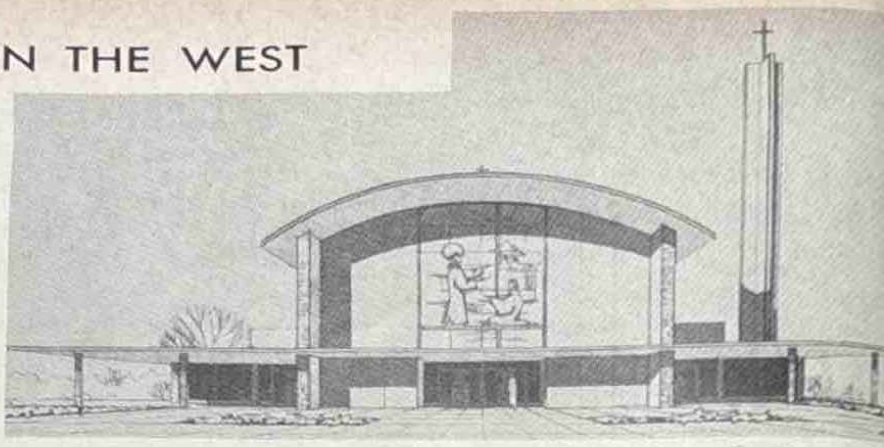


A. O. Bumgardner, AIA. Age 34. University of Illinois, 1949; part-time instructor in architectural design, 1948-49. Licensed in Washington, 1951; own practice on full-time basis, 1953. Treasurer, Washington State Chapter, AIA, past two years; chairman of committee which organized first series of seminars on professional growth of young practitioners. Honor Awards for design, 1954 and 1956, Washington State Chapter, AIA.

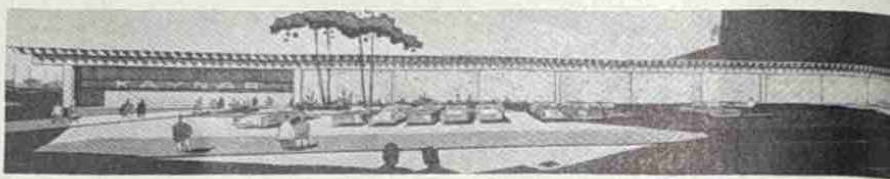
PROJECT PREVIEW IN THE WEST



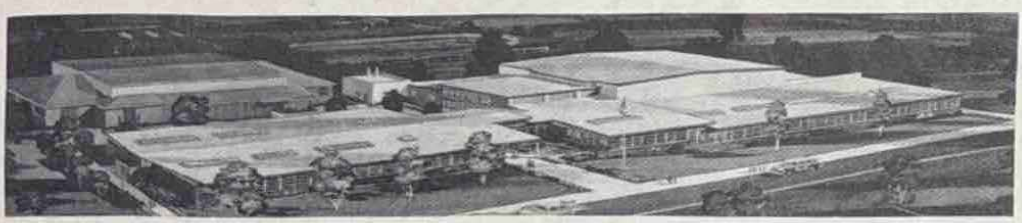
FIRST WESTERN BUILDING will be one of Oakland's tallest when completed next year. Eighteen-story structure will be surfaced with colored porcelain insulated panels set in aluminum framework. Modular construction will be used throughout building, which will have radiant type heating and air conditioning in ceilings. Architects: Stone, Mulloy, Marraccini & Patterson.



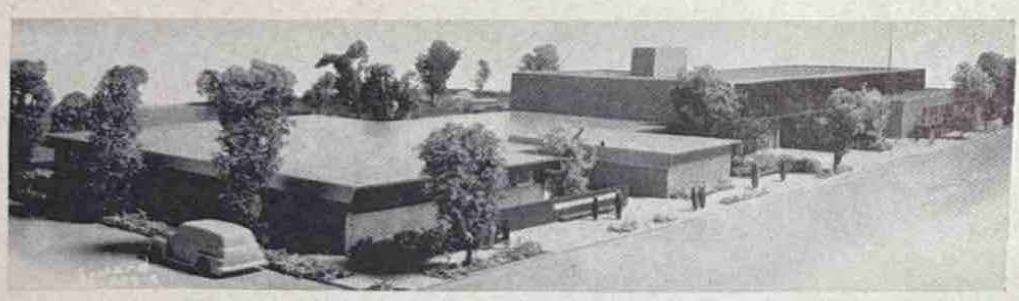
LARGEST SINGLE THIN SHELL CONCRETE DESIGN to date will be incorporated i Edward's Church, Seattle, to cost nearly $600,000. Curved 42-ft. roof with its clere walls will carry side aisle roofs in addition to its own weight. Wilkeson stone ex will be accentuated with precast stone at ends of building and on 78-ft. free-stan tower. Precast stone will be repeated in mural panel on front of church depicting bolism related to patron of parish. Architect: John W. Maloney, AIA.



ALL-CONCRETE BUILDING being constructed for Kaynar Mfg. Co. in Rivera Calif., prestressed girders, perlins and roof slab. Although it contains few outside wind structure will be illuminated by natural overhead lighting through about 30,000 "l ports" spaced regularly throughout entire roof area and containing 8-in. dia. prism glass lenses developed by manufacturer. Completely flat roof will have constant l of water 2 in. thick which will be continuously treated, filtered and recirculating will, in conjunction with more than 1,000 roof water sprays, supplement refriger all-year air conditioning system. T. Y. Lin & Associates, consulting civil and struct engineers; architectural consultant, John Lautner, AIA.



ELEMENTARY AND HIGH SCHOOL PLANT nearing completion at Washtucna, Wash., contains 31,150 sq. ft., costing about $450,000 (includes razing old building, some equipment and ineligible items on state finance basis). In designing building to fit sloping site, multipurpose room also serves as stage when gymnasium—on same level as grade school portion—is used for auditorium purposes. Ramps in corridor connect sections. Architect: Victor Louis Wulff, AIA.



SPRINGFIELD, ORE., PROJECT, as represented in model shows library in foreground and remodeled city hall in background. Voters last fall approved $150,000 bond issue for former but not for latter. Library will have tilt-up concrete walls, flat wood roof, luminous ceilings and hot water in slab for basic heating. Architect Donald H. Lutes.

NEW HIGHS...
in guest convenience

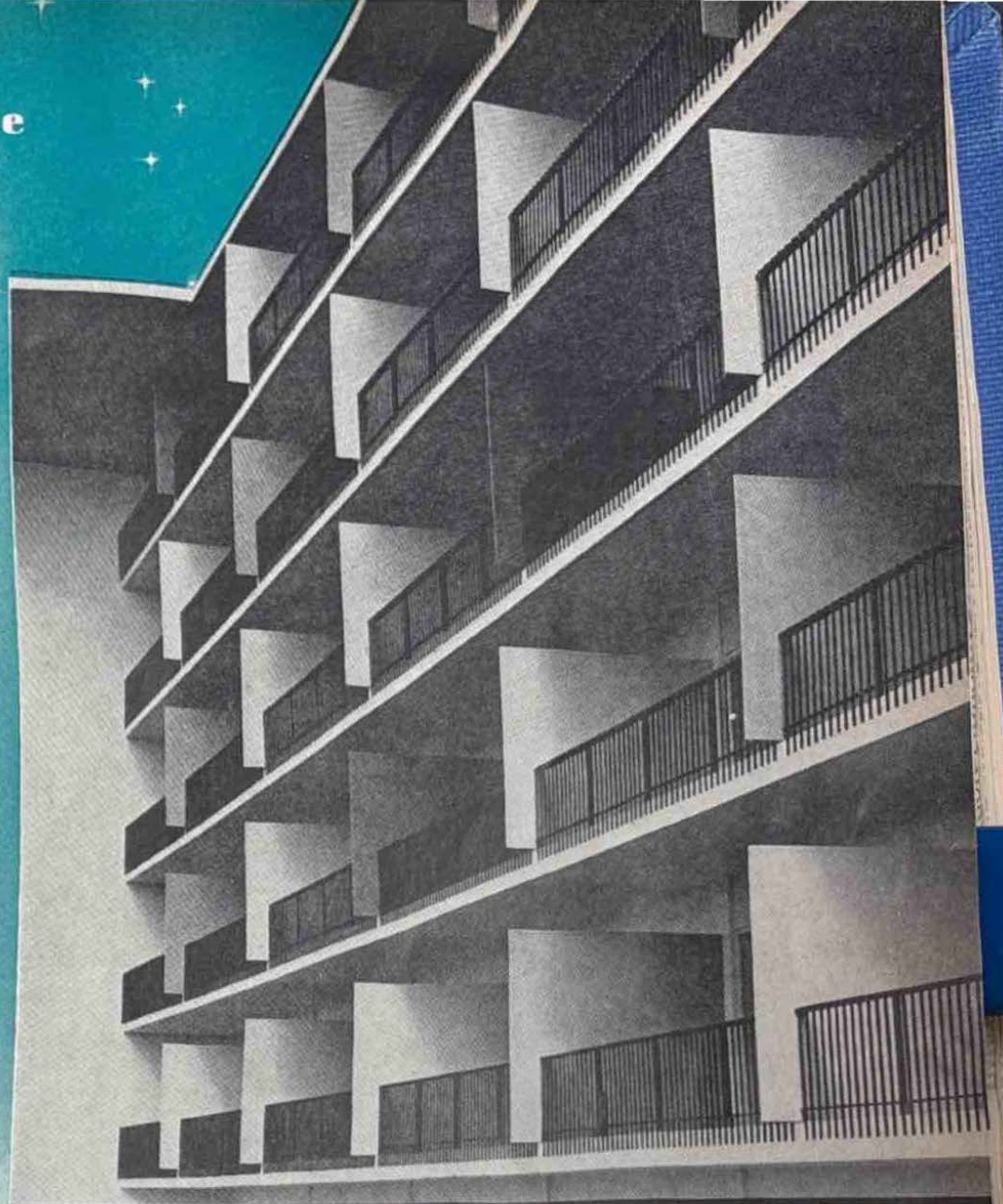
were architecturally achieved in the construction of the fabulous

Beverly Hilton

To provide room-guests with an experience in California outdoor living—the adjoining balconies were made private by PORCELAIN ENAMEL double-faced laminated panel separators.

•

Exterior appearances of these PORCELAIN ENAMEL panels—in varying colors, ranging from light pastel shades to dark blues and dark browns—greatly add to the striking, colorful effect of this world-famous Beverly-Hilton.



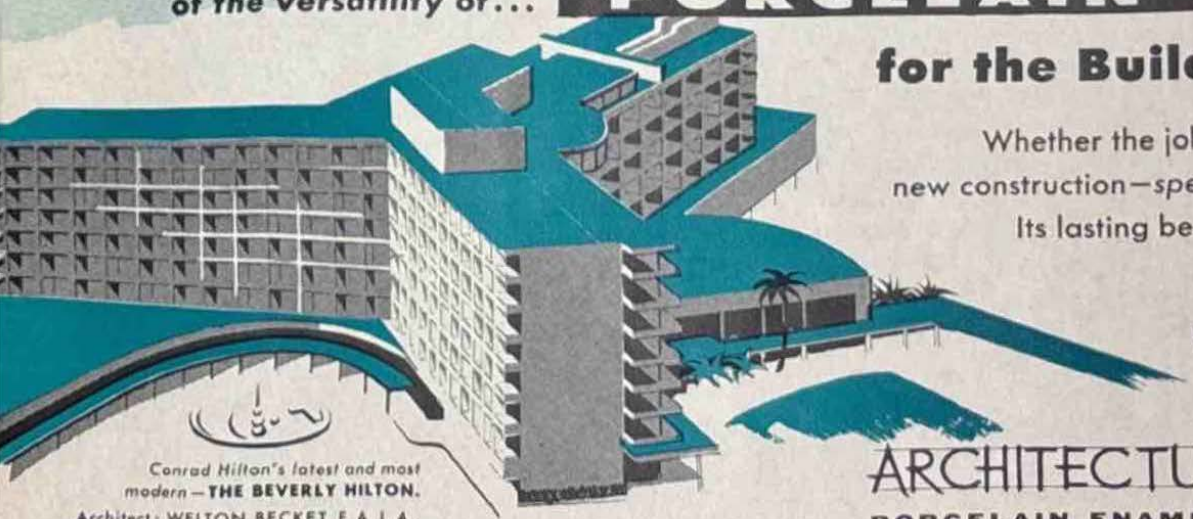
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Building News - Trends - Views

NON-ARCHITECT CHARLES EAMES, who was slighted by the Southern California Chapter, AIA, when it issued an architectural guide for the 1956 national convention in Los Angeles, will be honored by the institute at its centennial program—as a designer of furniture. He will receive the Craftsmanship Medal awarded for achievement in the industrial arts (more details on opposite page).

THE PLANNED NEIGHBORHOOD IDEA will get its first big push in the Portland area this spring when 10 architects and designers combine their talents to plan a "junior community" of fine homes in the heart of a 60-acre site known as Raleighwood. Each of the participants is designing his own "ideal home" in the $25,000-$35,000 range but consulting with one another during the planning period.

REGISTRATION OF LANDSCAPE ARCHITECTS would be required in the state of Washington if a proposed bill is passed in Olympia.

A STATEWIDE MEETING held in the Hotel Statler, Los Angeles, earlier this month under the sponsorship of the California Council of Architects discussed "the most important legislation school architects in this state have ever had to deal with." Council president John Lyon Reid of San Francisco explained, "Bills have been introduced in the 1957 legislature which could drastically affect California's school building program for years to come." Among the bills he listed were measures which would limit architects' compensation on all public works; make use of a qualified architect or structural engineer optional on school projects; permit reuse of school plans without further compensation to the architect who prepared them.

SAN FRANCISCO "IS DEFACING ITSELF BY FREEWAYS" in the opinion of the architect who designed the City Hall and the Opera House. Addressing members of the Northern California Chapter, AIA, Arthur Brown Jr. declared that the elevated freeways across the front of the Ferry Building and at the rear of City Hall "are a shame and a disgrace." Brown added, "The trouble is that the freeways are all designed by engineers and they're looking for the cheapest way to do things. The elevateds have been torn down in New York and Chicago. But here we are planning to put the tangled skeins of those freeway ramps all over the city. It's a shame."

CALIFORNIA REAL ESTATE COMMISSIONER D. D. Watson reports that subdivision filings in the state fell off from 8 to 10% during 1956. Home builders blame the extremely tight money market for the drop.

The AIA centennial program really gets underway this month when New Yorkers dedicate a bronze table at 111 Broadway, site of the institute's founding, February 23. Meanwhile on the West Coast some celebrations already have taken place and others are being scheduled.

An example of the support that the profession is getting from the community is seen in Seattle where Mayor Gordon S. Clinton has tabbed February 17-23 as Architects' Week. His proclamation in part:

"In this, their centennial year of 1957, the American Institute of Architects have rededicated themselves to the high ideals and objectives of the founders and have pledged themselves to continue their work toward the improvement of our people's environment, helping them to express their hopes, ideals and aspirations through the fields of architecture and the allied arts and joining with them in their efforts toward achieving a happier and better world for mankind . . . "

AIA announces centennial awards

—Two West Coast men named

An unprecedented award, a special Centennial Medal, will be presented to Ralph T. Walker, New York architect and community planner, by the AIA at its annual convention in Washington, D. C., May 13-17.

Two West Coast men also will be honored during the institute's centennial program: for painter Mark Tobey of Seattle, the Fine Arts Medal; for furniture designer Charles Eames of Venice, Calif., the Craftsmanship Award.

The Gold Medal for 1957 will go to Louis Skidmore, senior partner of the architectural firm of Skidmore, Owings & Merrill. Other awards:

Citation of Honor: Foreign Buildings Operation of the U. S. Department of State, for distinguished achievement in directing the foreign building program; and to Milton Horn, Chicago sculptor, for achievements in the arts.

Honorary AIA Fellowships: Pier Luigi Nervi of Rome, Italy, and Christiano das Neves of Sao Paulo, Brazil.

Edward C. Kemper Award: David C. Baer of Houston, chairman of the AIA committee on office practice, for significant contributions to the profession.

A fellow and former president of the institute, Walker is a member of the architectural firm of Voorhees, Walker, Smith & Smith. In announcing the special award, AIA president Leon Chatelain Jr., said, "It is our belief that he has made the most significant contribution of any living American architect to humanity and the planning of human environment."

Walker designed the New York Telephone Co. headquarters in New York City and Brooklyn; Prudential Life Insurance building in Newark, N.J.; General Foods Offices building, White Plains, N.Y.; Union Carbide and Carbon Corp., New York; A.F.L.-C.I.O. building, Washington, D. C.; Charles Hayden Memorial Library, Cambridge, Mass.; Loyola Seminary, Shrub Oak, N.Y., Luxembourg American Cemetery; U. S. Army bases in the British West Indies; and a proposed community development to house workers for the Aswan fertilizer plant in Egypt.

An an inventor, he held the original patent on the Vitarama photographic process, the parent of Cinerama, and was the first to recognize the principal of peripheral vision.



TACOMA ARCHITECT Marshall Perrow (left) and restaurant owner Jack Meaker admire hardwood and birch wall that won national award.

Building products exhibit heads for Coast

The Home Building Caravan sponsored by Producers' Council will be wending its way up the West Coast this month and next. The itinerary: Los Angeles, Thursday, February 28, Biltmore Hotel; San Francisco, Tuesday, March 5, Fairmont Hotel; Portland, Tuesday, March 12, Multnomah Hotel; and Seattle, Friday, March 15, Norway Center.

The caravan has 30 booths displaying the products of 28 companies and associations for builders, architects and dealers. As a grand door prize for the entire tour of 38 cities from coast to coast, the council is offering some builder an all-expense airline trip to Europe for two.

Costing about $180,000 to build, transport and exhibit, the caravan will feature products shown by samples, models, cutaways, pictures and drawings.

Tacoma architect presented national design honor

Marshall Perrow, AIA, of Tacoma received one of two national awards given for architectural design by the Fine Hardwoods Association at its recent Chicago convention. He was cited for "a unique curved Philippine hardwood and birch wall" created for Johnny's Dock waterfront restaurant.

Thirty-six awards were made from 600 entries in all categories, including production furniture and miscellaneous, in addition to architectural installations. The latter division was defined as "both interior and exterior installations in which fine hardwoods play a dominant role in woodwork, paneling, flooring, built-ins, etc."

Award winners were displayed at Chicago's January furniture market.

Northern California plans design competition

The Northern California Chapter, AIA has launched its competition to select the most outstanding buildings and planning projects in the area designed since 1950 by members. The competition will be the most comprehensive of its kind ever held in the area and categories will include a commercial and industrial, public and institutional, religious, residential, site development and planning, interior design, and architectural painting and sculpture.

The competition will be restricted to works completed since January, 1950 in the area north to the Tehachapi Range and entries must be in the Sheraton Palace Hotel not later than March 1. Judging will end March 9. The jurors: Pietro Belluschi, dean, School of Architecture, MIT; Edgar Kaufman Jr., director, Museum of Modern Art, New York; James M. Fitch, professor, School of Architecture, Columbia University; Harry Bertoia, architectural sculptor; and Dr. J. Robert Oppenheimer, director, Institute of Advanced Studies, Princeton.

Following the presentation of awards, all models and exhibits will be placed on view in San Francisco in connection with the commemoration of the founding of the AIA and later will be exhibited in other northern California communities.

'Year of decision': NAHB has lively Chicago meet

Undaunted by the tight money market and a drop in housing starts, home builders from across the nation, Hawaii and Canada convened in Chicago January 17-24 for their 13th annual NAHB convention-exposition.

Nearly 300 speakers, panel participants and demonstrators combined their efforts to develop the theme "Target for Tomorrow" as the delegates approved one of the association's most significant policy statements (see p. 12). They also viewed the wares of 450 manufacturers displayed in 778 exhibition spaces and elected George S. Goodyear Jr. of Charlotte, N.C., as president.

Nels Serverin of San Diego was named first vice president and Edward P. Miller of Tacoma, Stanley C. Scott of La Mesa, Calif., and William Blackfield of San Francisco were among 21 elected regional vice presidents.

Speakers talked about mortgage money, house design, construction techniques and new materials (Some of these topics will be developed in later issues). But Sen. John J. Sparkman (D-Ala.) probably expressed the consensus when he said that "1957 is a year of decision for the home building industry."

Building volume climbs slightly in January

BUILDING PERMIT VOLUME in the five western states for January barely topped the December figure. The January dollar total was $179,686,836 for a 4% gain.

By states, the volume varies from an 8% drop in Washington to a 103% rise in Montana. Oregon, up 85%, and Idaho, up 57%, also showed good gains, while California rose a bare 2%.

The five-state total was down 9% from January 1956, with a drop of 13% in California pulling the grand total down. All other states recorded increases. Idaho was up 89%; Oregon, 36%; Montana, 19%; and Washington, 2%.

Among major reporting agencies, Los Angeles dropped $3 million from a year ago; Los Angeles County, $5 million; Orange County, $12 million; and San Francisco, $4½ million. Those showing good increases were San Diego, up $10 million; Portland $1¼ million; and King County, $2½ million.

The drop in housing starts, which is being offset by a steady increase being maintained in non-residential construction, caused the NAHB at its January convention to issue one of its strongest policy statements; and within 24 hours following the close of the sessions, newly elected president George S. Goodyear Jr. was in Washington, D.C., attending a House veterans affair committee hearing on a proposed VA interest hike. The home builders' program also calls for Congress to 1) increase FNMA secondary market funds; 2) expand FNMA special assistance; and 3) eliminate the $15,000 mortgage amount limit on FNMA purchases.

Following is a breakdown of building permits issued by several of the major agencies during January.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	26	($ 698,250)	17	($1,632,330)		
King County	308	(3,490,780)	25	(820,836)	6	($1,877,678)
Seattle	299	(2,151,565)	161	(2,477,970)	4	(102,000)
Tacoma	70	(421,860)	24	(301,875)		
Orange County	319	(3,382,070)	46	(469,021)	3	(83,706)
Sacramento Co.	311	(2,507,631)	33	(879,730)	6	(361,421)
Los Angeles Co.	2229	(19,798,641)	444	(5,258,725)	10	(701,460)

Building Permit Totals for 116 Western Agencies for January 1957

CALIFORNIA	Jan. 1957	Dec. 1956	Jan. 1956
Alameda County	$ 1,480,500	$ 2,073,450	$ 1,850,500
Anaheim	1,327,050	1,674,565	4,000,780
Bakersfield	879,305	331,688	1,785,776
Burbank	719,642	689,459	1,423,136
Contra Costa County	1,785,681	3,547,120	1,598,226
Fresno	990,212	960,245	1,080,495
Fullerton	639,028	1,533,511	877,725
Glendale	1,521,371	587,604	2,847,514
Inglewood	1,568,123	483,580	362,731
Long Beach	4,422,110	16,172,540	2,477,040
Los Angeles	37,150,330	37,761,724	40,100,044
Los Angeles County	26,542,576	27,109,281	31,665,362
Oakland	4,422,327	3,602,748	2,215,897
Ontario		294,339	1,619,999
Orange County	4,418,937	2,844,783	16,592,273
Palo Alto	1,550,326	903,098	556,852
Pasadena	1,105,673	983,600	1,555,659
Pomona	1,672,237	1,516,387	2,351,965
Richmond	360,520	136,779	2,017,289
Riverside	1,012,059	1,786,815	1,685,000
Sacramento	2,654,825	1,562,883	5,953,771
Sacramento County	3,828,394	3,191,015	3,014,936
San Bernardino	2,706,302	1,166,495	1,439,217
San Bernardino County	5,789,093	4,536,408	5,259,960
San Diego	14,092,635	11,437,305	3,999,674
San Diego County	4,898,200	3,534,400	2,649,070
San Francisco	5,086,441	4,204,228	9,608,039
San Jose	3,729,444	2,444,173	3,470,165
San Mateo	821,734	573,312	329,353
San Mateo County	884,762	1,028,966	1,629,095
Santa Ana	799,516	1,083,119	2,974,190
Santa Monica	1,977,499	969,646	642,568
Stockton	753,509	488,543	757,204
Sunnyvale	2,220,600	1,304,375	481,885
Torrance	1,905,796	344,162	7,609,226
West Covina	1,983,590	2,147,259	1,408,725
TOTAL	$147,700,347	$145,009,605	$169,891,341

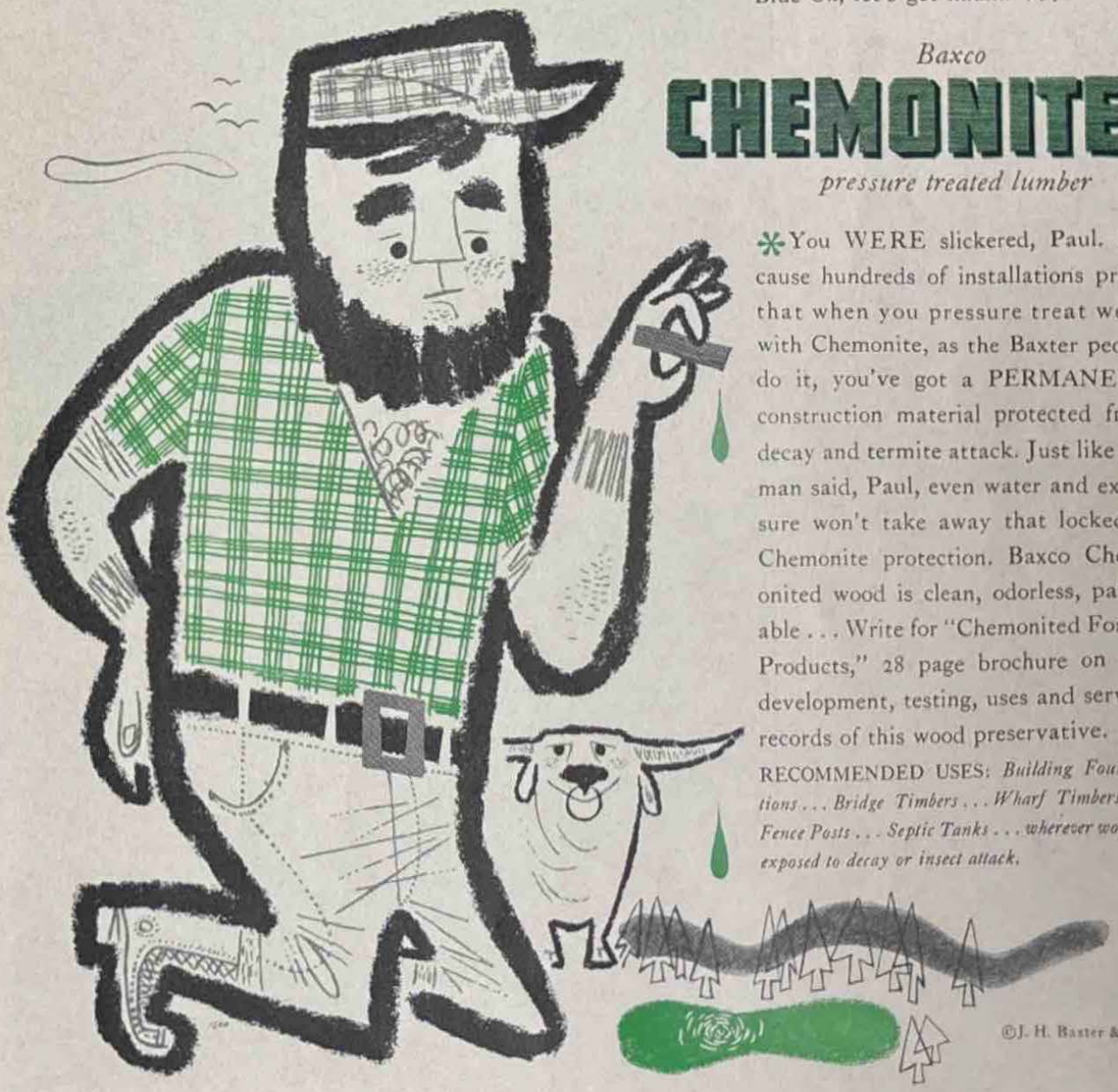
OREGON	Jan. 1957	Dec. 1956	Jan. 1956
Albany	$ 144,950	$ 79,650	$ 70,625
Astoria	211,975	45,560	16,448
Baker	700	300	7,160
Bend	72,425	74,950	37,120
Coos Bay	72,459	132,250	26,395
Corvallis	66,000	29,144	128,680
Eugene	323,925	349,950	641,347
Grants Pass	148,610	81,150	303,885
Gresham	9,350	12,000	37,200
Hillsboro	66,150	17,875	38,281
Klamath Falls	626,450	82,982	32,200
LaGrande	17,650	12,300	6,725
Lane County	425,616	278,770	391,930
Medford	2,221,190	349,575	166,140
Multnomah County	1,272,735	1,591,755	1,901,990
North Bend	345,695	66,885	44,610
Oregon City	23,100	4,435	57,100
Pendleton	117,500	195,350	82,000
Portland	4,852,555	2,529,680	3,499,560
Roseburg	43,175	66,450	155,445
Salem	196,125	65,370	664,886
Springfield	78,536	24,180	55,050
The Dalles	86,475	64,225	32,269
TOTAL	$ 11,423,346	$ 6,154,786	$ 8,397,046

WASHINGTON	Jan. 1957	Dec. 1956	Jan. 1956
Aberdeen	$ 382,095	$ 35,775	$ 49,7[illegible]
Anacortes	42,925	11,400	31,7[illegible]
Auburn	605,026	21,275	24,6[illegible]
Bellingham	99,051	192,633	356,5[illegible]
Bremerton	78,080	30,440	65,7[illegible]
Centralia	71,534	33,108	42,4[illegible]
Chehalis	5,993	15,484	23,1[illegible]
Clarkston	15,956	8,670	98,5[illegible]
Ellensburg	15,182	8,050	2,5[illegible]
Ephrata	16,075	6,500	335,4[illegible]
Everett	162,657	60,586	252,9[illegible]
Kelso	17,500	16,900	9,1[illegible]
Kennewick	12,000	6,500	187,3[illegible]
King County	6,220,464	3,346,671	3,627,8[illegible]
Kirkland	42,500	28,800	45,1[illegible]
Longview	263,913	150,173	195,2[illegible]
Moses Lake	19,080	54,944	449,4[illegible]
Olympia	335,843	77,897	378,0[illegible]
Pasco	8,625	153,025	75,1[illegible]
Pierce County	1,117,783	547,525	915,2[illegible]
Port Angeles	65,600	27,560	32,9[illegible]
Puyallup	37,700	25,422	819,8[illegible]
Ritzville	500,000	35,000	15,6[illegible]
Seattle	4,817,520	5,246,295	4,701,0[illegible]
Shelton	22,000	29,500	35,1[illegible]
Spokane	507,353	5,586,740	1,820,9[illegible]
Spokane County	254,795	1,341,845	1,095,4[illegible]
Sumner	16,000	15,500	26,4[illegible]
Tacoma	1,571,239	1,556,063	1,169,3[illegible]
Vancouver	327,852	348,696	411,2[illegible]
Walla Walla	7,550	15,290	101,8[illegible]
Wenatchee	50,800	76,791	28,5[illegible]
Yakima	183,060	238,875	113,4[illegible]
TOTAL	$ 17,893,751	$ 19,409,933	$ 17,537,3[illegible]

MONTANA	Jan. 1957	Dec. 1956	Jan. 1956
Billings	$ 75,400	$ 133,100	$ 126,0[illegible]
Bozeman	15,000	26,600	25,0[illegible]
Butte	518,250	21,654	29,7[illegible]
Glasgow	7,500	28,000	Nil
Glendive	1,000	18,000	Nil
Great Falls	297,421	98,331	386,6[illegible]
Helena	50,470	77,270	29,9[illegible]
Kalispell	4,100	33,900	30,7[illegible]
Lewistown	21,000	16,000	12,0[illegible]
Livingston	1,900	1,600	39,3[illegible]
Miles City	8,100	9,280	5,1[illegible]
Missoula	11,300	35,900	165,8[illegible]
TOTAL	$ 1,011,441	$ 499,635	$ 850,2[illegible]

IDAHO	Jan. 1957	Dec. 1956	Jan. 1956
Boise	$ 236,648	$ 235,442	$ 281,9[illegible]
Caldwell	43,150	21,450	75,9[illegible]
Coeur d'Alene	69,050	115,200	47,1[illegible]
Idaho Falls	36,300	133,000	65,3[illegible]
Jerome	6,500	10,200	18,4[illegible]
Lewiston	186,924	62,475	52,7[illegible]
Nampa	21,200	39,990	39,9[illegible]
Payette	12,100	15,825	41,6[illegible]
Pocatello	1,011,579	107,071	184,5[illegible]
Sandpoint	4,650	8,500	1,4[illegible]
St. Maries	Nil	Nil	17,5[illegible]
Twin Falls	29,850	306,200	68,1[illegible]
TOTAL	$ 1,657,951	$ 1,056,353	$ 894,2[illegible]
GRAND TOTAL	$179,686,836	$172,130,312	$197,576,1[illegible]

"Been settin' here, wettin' this fool stick for twenty years—and she ain't rotted yet." Paul Bunyan threw down the 12x12 Chemonited* timber in defeat. His disgusted sigh flattened 30 acres of prime Douglas fir. "Yessir, Babe, I been suckered again by a city slicker. That Baxter man bet me a year's free loggin' to a month in Frisco that that there stick would never rot—even in moist ground. On account of this new fangled presarvative, Chemonite* . . . Well come on, you lazy Blue Ox, let's get haulin' . . ."



Baxco

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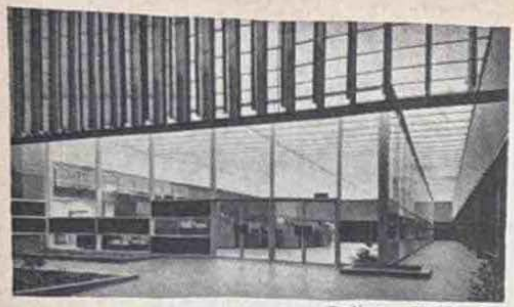
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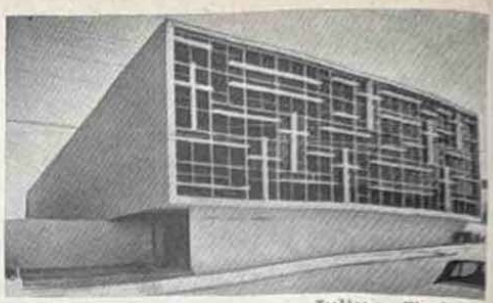
Julius Shulman

VALLEY FEDERAL SAVINGS & LOAN OFFICE, Los Angeles, 1954: Hutchison, Kinsey & Larsen, architects.



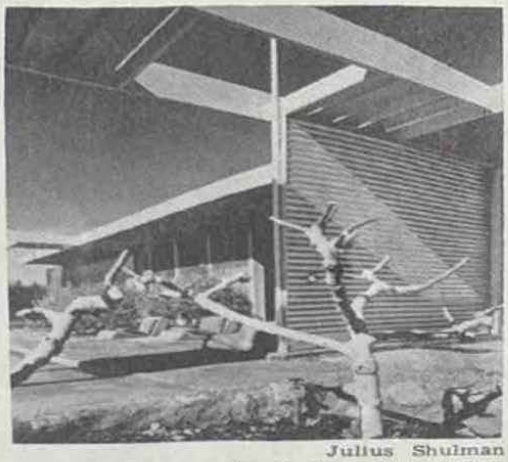
Julius Shulman

SHULMAN RESIDENCE, Los Angeles, 1951: Raphael Soriano, architect.



Julius Shulman

CORPUS CHRISTI CHURCH, San Francisco, 1955: Mario J. Ciampi, architect.



Julius Shulman

FREY RESIDENCE, Palm Springs, Calif., 1950: Clark & Frey, architects.



Dearborn-Massar

STATE GAME DEPARTMENT BUILDING, Seattle, 1949: James C. Gardiner & Associates, architects.



Dearborn-Massar

VETERANS' HOSPITAL, Seattle, 1951: Naramore, Bain, Brady & Johanson, architects.



Ezra Stoller

EQUITABLE SAVINGS & LOAN ASSOCIATION OFFICES, Portland, 1948: Pietro Belluschi, architect.



Julius Shulman

RICHMOND CIVIC CENTER, Richmond, Calif., 1949: Milton T. Pflueger, architect.



R. Wenkam

PUNAHOU ELEMENTARY SCHOOL, Honolulu, 1951-55: Vladimir Ossipoff, architect.



Julius Shulman

CLARK RESIDENCE, Palm Springs, Calif., 1948: Clark & Frey, architects.



Roger Sturtevant

KAWNEER FACTORY OFFICE, Berkeley, Calif., 1948: Ketchum, Gina & Sharp, architects.



Julius Shulman

PRUDENTIAL BUILDING, Los Angeles, 1948: Welton Becket & Associates.

PA&B Bookshelf

'Aluminum in modern architecture'

THE BUILDING SPOTLIGHT has been shining brightly on aluminum since last November when Reynolds Metals Co. introduced its two-volume work "Aluminum in Modern Architecture" and announced the juiciest plum ever offered in an architectural competition (see details below).

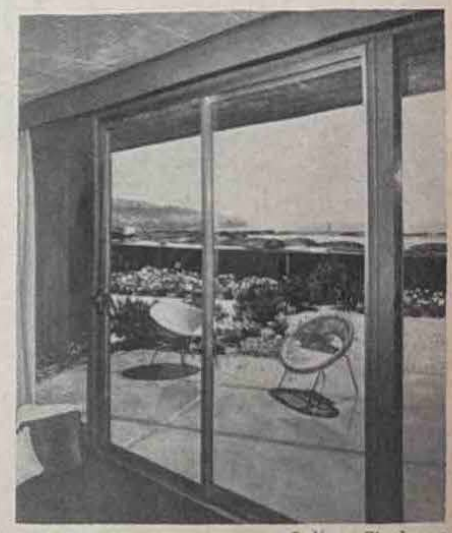
Shown on these pages are photographs from Volume I, a pictorial study by John Peter, although Volume II, by Paul Weidlinger, is perhaps the more significant. The latter is an engineering reference book for working designers, the most comprehensive ever undertaken of the structural applications of aluminum.

Volume I reviews 100 projects—factories, offices, residences, schools and general—which naturally employ aluminum somewhere in the structure. The treatment is similar to that afforded by the architectural press, which has widely publicized the majority of the buildings featured.

Most of the projects have been completed since 1950. For a study whose scope has been limited within the confines of one material, this volume presents a good cross section of American architecture. A small amount of foreign structures is featured.

Volume I has particular interest for West Coast readers, since this area has contributed 20 buildings or one-fifth of the total work shown. In addition to the 14 presented here, the book has these six projects:

- Katherine Finchy Elementary School, Palm Springs, Calif., 1950: Clark & Frey, architects.
- Kaufmann Residence, Palm Springs, Calif., 1948: Richard J. Neutra, architect.
- Northwestern Mutual Fire Insurance Office, Los Angeles, 1951: Richard J. Neutra, architect.
- Orange Coast College, Costa Mesa, Calif., 1946: Robert E. Alexander, architect.
- Standard Federal Savings Building, Los Angeles, 1954: Welton Becket & Associates, architects.
- White Oaks Elementary School, San Carlos, Calif., 1953: John Carl Warnecke, architect.



Julius Shulman

EDGEWATER APARTMENTS, Hollywood Riviera, Calif., 1954: J. Merrill Gray, designer.

AIA ANNOUNCES RULES FOR $25,000 REYNOLDS PRIZE

Rules and a five-man jury for the first annual $25,000 R. S. Reynolds Memorial Award have been announced by the American Institute of Architects.

Closing date for nominations was February 15. Nominees will receive a special binder for displaying photographs, site plans and other descriptive data, which must be returned to the Octagon by March 25.

The jurors—George Bain Cummings, Percival Goodman, Ludwig Mies van der Rohe and Edgar I. Williams, all AIA fellows, and William Dudok, architect of Hilversum, Holland—will complete judging by April 13.

Rules set by the institute at the request of Reynolds Metals provide that "the award may be made for a structure of any classification." An entry may be one structure or a related group of structures forming a single project completed prior to January 1, 1957. "Nor is it necessary," according to the AIA, "for the structure to have been designed for human habitation; it may be entirely utilitarian or principally symbolic or decorative, or a structure featuring integral architectural sculpture.

"Prime consideration will be given to the creative value of the contribution and its potential influence on the architecture of our times, rather than to the size or type of structure."

The $25,000 honorarium will be accompanied by a sculptured aluminum emblem.



Hedrich-Blessing

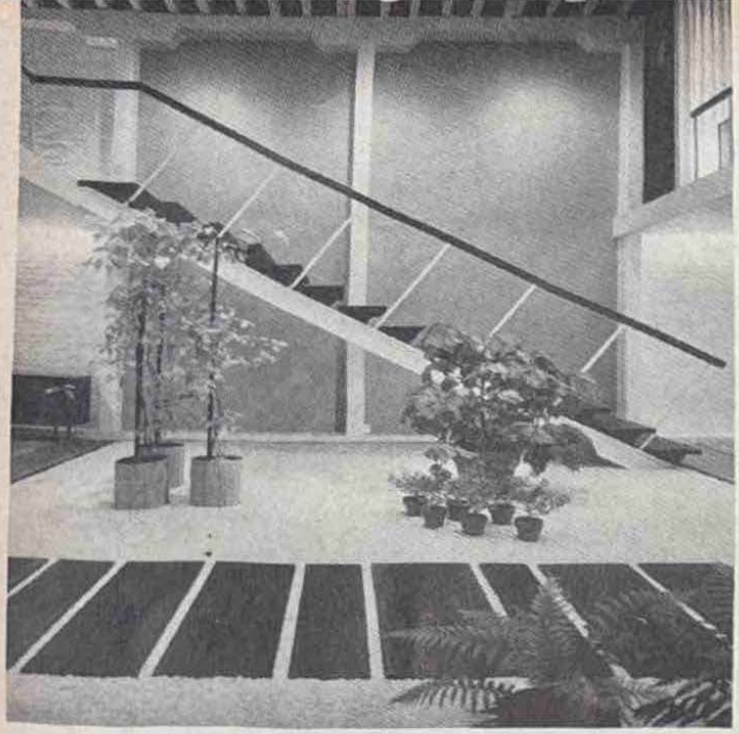
MID-WILSHIRE MEDICAL BUILDING, Los Angeles, 1951: Victor Gruen, architect.

Florence Knoll designs own West Coast showrooms

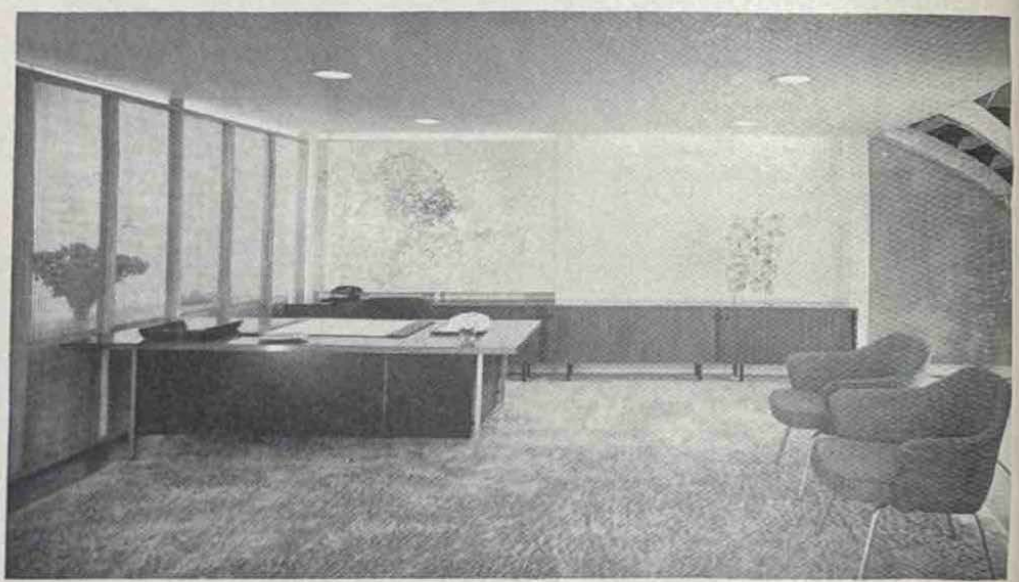
THE WESTERN SHOWROOMS opened by Knoll Associates, Inc., in San Francisco are located in a building which dates back to 1857, a three-story structure with "party" walls, used as a warehouse for many years. Occupying the first two floors, the showrooms have been designed by the Knoll Planning Unit under the supervision of Florence Knoll, retaining the original character of the building.

In re-creating the space, the building was stripped down to the bones of the structure. The supporting columns and beams of heavy mill construction have been exposed and become part of the decorative element. The brick wall is left in its natural state and painted white. Colored panels added to walls are patterned to fit into this detailing. The floor is natural hemlock.

Focal point of the entrance is a free-floating staircase of structural steel leading to the twin mezzanines, established to provide a horizontal delineation in what is basically a long, narrow building extending 130 ft. from Montgomery Street to historic Hotaling Place. The walnut slab steps are repeated in a walkway, embedded in marble chips, which affords access to the two halves of the showrooms. Tall, informal greens accent the area.



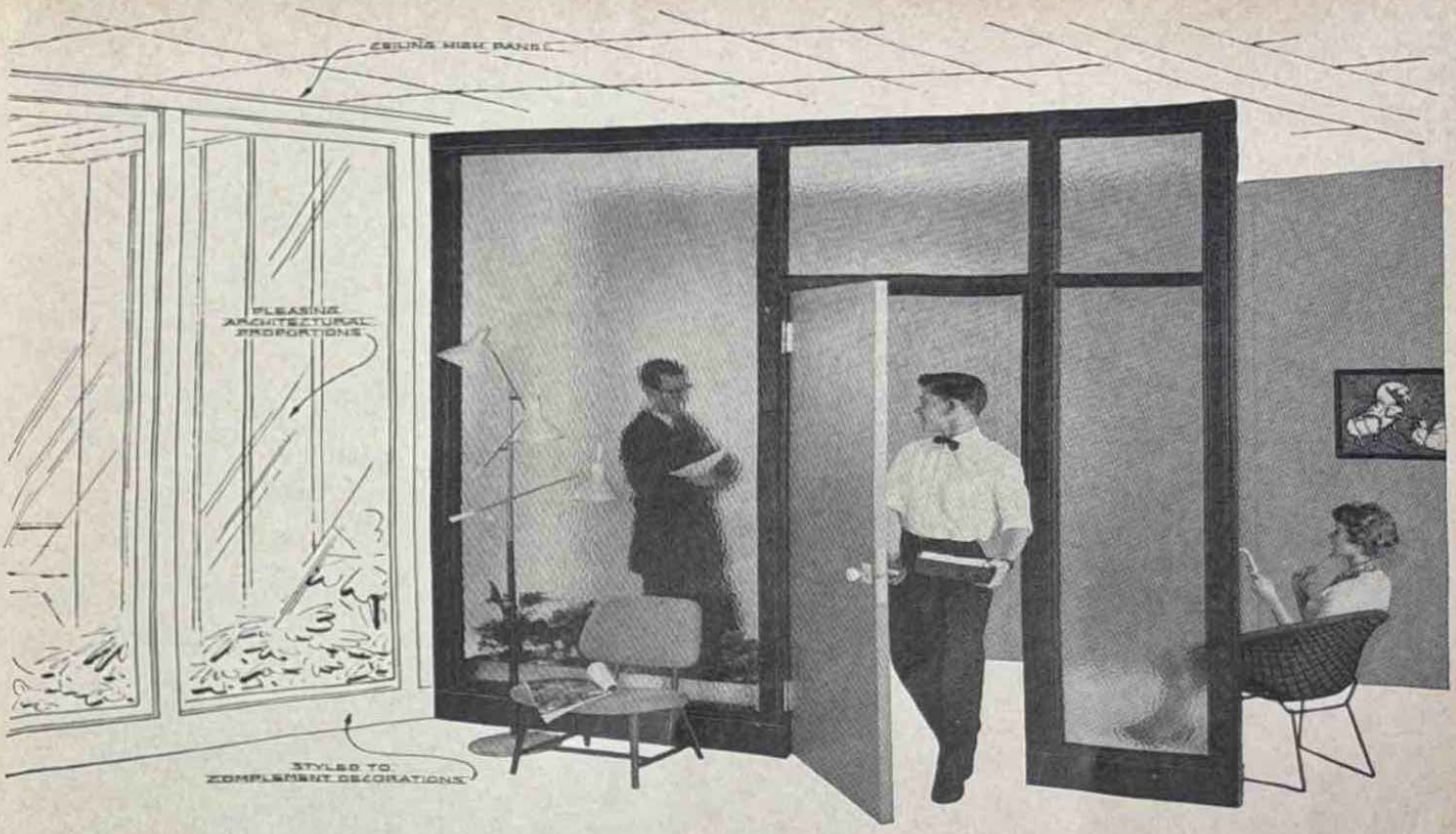
FREE-FLOATING STAIRCASE leads to twin mezzanines; walnut slab walkway is set in marble chip floor.



EXECUTIVE OFFICE GROUPING, above. Walnut topped desk sets on ebonized pedestal. Desk and walnut wall cabinets both are Florence Knoll designs. Eero Saarinen's chairs are covered in Rugby fabric, product of Knoll Textiles. Setting features taupe rug, woven cane transparent wall at left, white brick walls and metal sculpture by Harry Bertoia.

INFORMAL LIVING ROOM GROUPING, below. Coffee table uses structural T-frame with top finished in plastic laminated maple pattern. Chests by Knoll Planning Unit are natural teak with white plastic laminated tops and porcelain drawer pulls. Richard Stein's day bed is covered in linen flax fabric. Chairs by Pierre Jeanneret are natural maple frames with seat and back covered in yellow linen flax.





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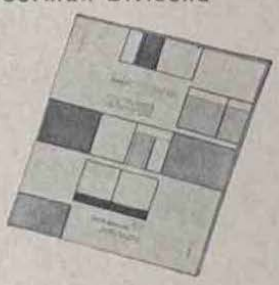
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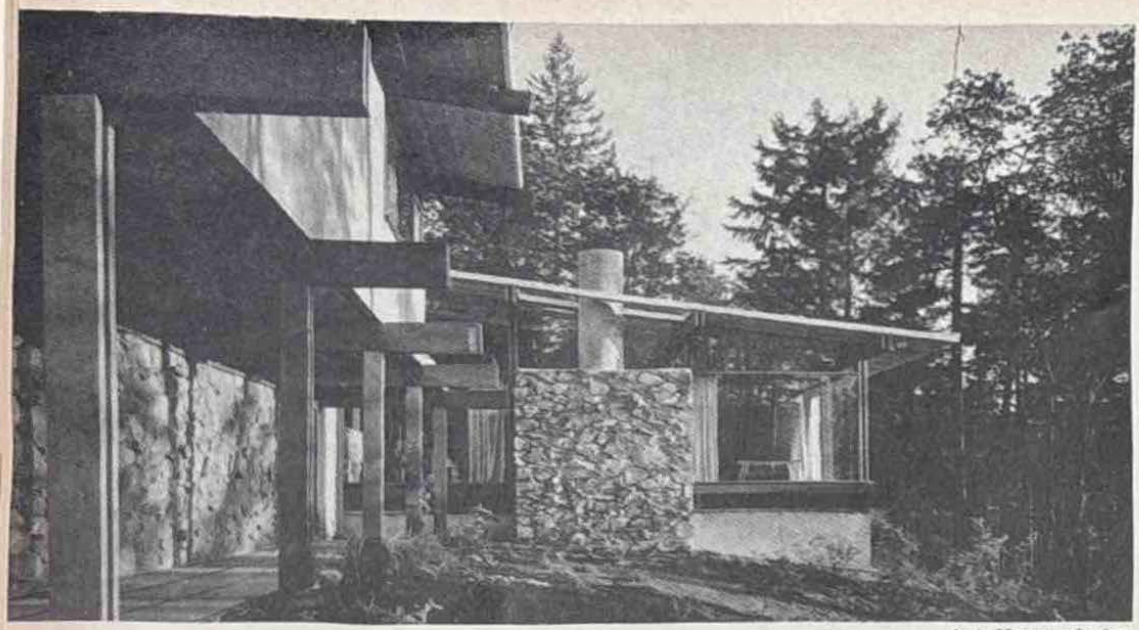
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Art Hupy photos

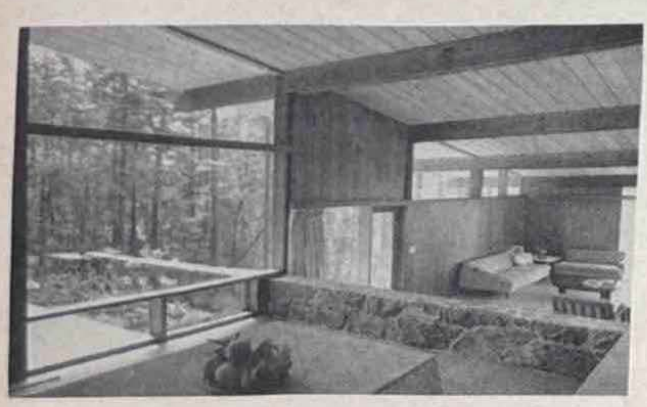
WHILE USING MANY NATURAL MATERIALS, house makes no attempt to merge into landscape; rather it is treated as insert with light wheat stain on siding and roof decking as effective contrast.

House that pays homage to the site

Thomas J. Graham Residence
Seattle, Washington

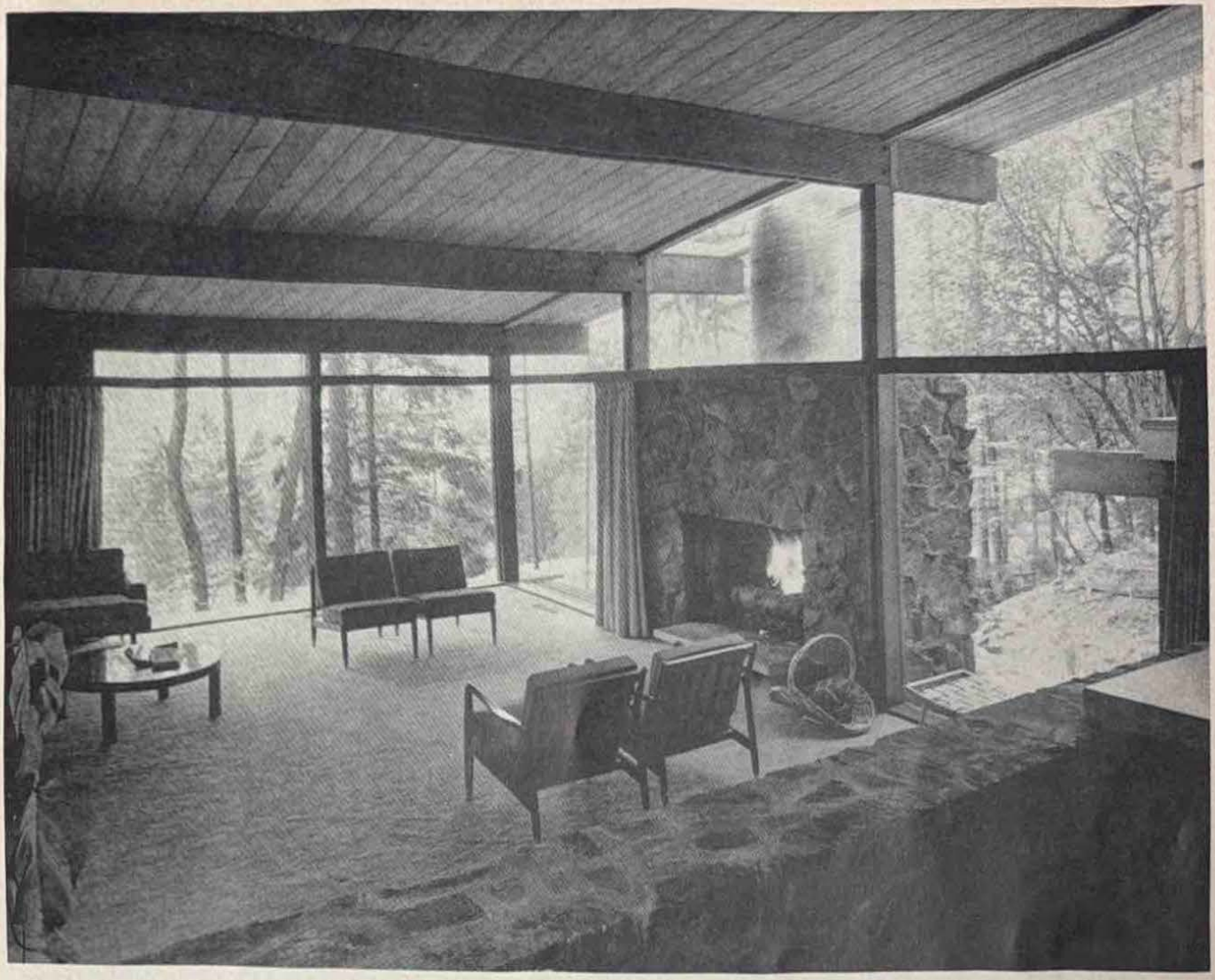
A. O. BUMGARDNER, AIA, Architect

THOMAS J. GRAHAM, Owner-Builder



KITCHEN-DINING-FAMILY AREAS look across terrace to deep wooded ravine to south sun.





THE PUGET SOUND COUNTRY abounds in sites that are a challenge to the imagination but the house-to-site relationship itself often leaves much to be desired. Here the architect has used an honest, unapologetic approach in planning a residence for a family of three in suburban Three Tree Point.

The steeply sloping site of more than two acres had been passed by in subdivision growth because of terrain problems. Since plots of residential size can seldom be bulldozed or reshaped without violating the integrity of the site, the natural landscape was honored in the design thinking.

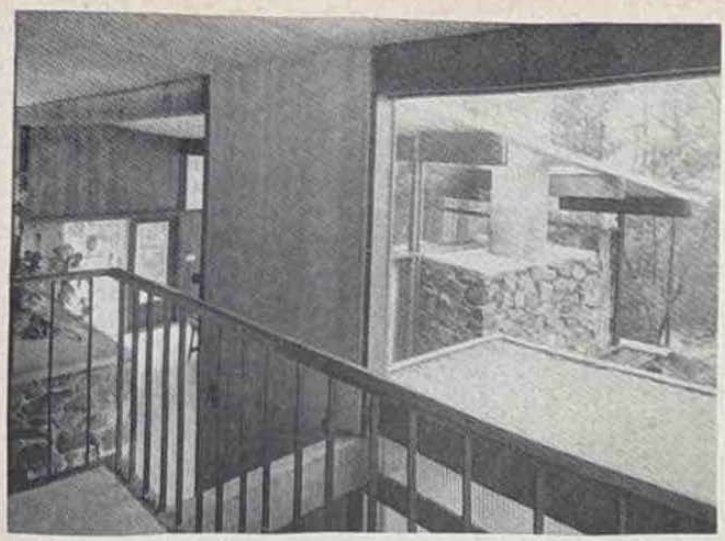
A scheme was developed with solid Shuksan walls retaining the terrace level, then continuing through the house so as to separate the principal living levels. Thus the stone walls created a flat base upon which the house proper was placed. The structure of the upper levels overhangs the stone-walled base in some areas, allowing an undisturbed flow of the natural site contours up to this smaller base. One also gets the sense of a tree house in looking out from the interior, heightening the drama of a real hillside house.

While the architect used many natural materials, he made no attempt to merge the house into the landscape. His philosophy: since the house is, after all, a geometrically simplified construction placed within a heavily wooded scene, treat it as an insert and use light wheat stain on the siding and roof decking as an effective contrast. By its stone wall appendages, terraces and built-up beam structural frame, the house does attempt to interlock convincingly with grade conditions.

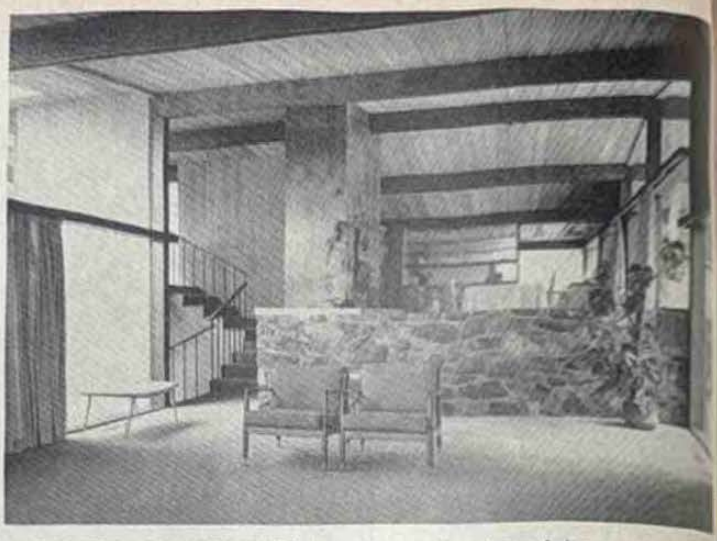
The plan provides 1,980 sq. ft. (not including partial basement) in four levels following lot contours. The living room and bedrooms have a westerly view through trees to Puget Sound, noble and breath-taking; the kitchen-dining-family areas look across a terrace to a deep-wooded ravine to the south sun, intimate and friendly.

It is interesting to note that this is the second house of the exact design to be built on the site. The first was destroyed by fire in October 1954 after the clients had lived in it almost a year. Only the living room fireplace and concrete foundations could be reused.

The family has occupied the house since the spring of 1955 but it is not yet complete. The owner has done the greater part of the labor; if contracted, the house in its present state would cost beween $35,000 and $40,000 or $15 per square foot.



BALCONY LEVEL leads to bathroom, two small bedrooms and master bedroom which doubles as sitting room.



CARPENTRY AND MILLWORK done in construction of house won AIA craftsmanship award for Stewart Phillips.

GRAHAM HOUSE

OUTLINE SPECIFICATIONS

Type of Construction: Built-up post and beam on 8-ft. module, stained walnut brown; Shuksan stone retaining walls.

Exterior Walls: 1x4 rough sawn vertical cedar with wheat stain.

Roof: Low sloping 2x8 t&g cedar on built-up beams.

Floors: Concrete slab basement and entry with vinyl cork on latter; frame elsewhere with carpeting or cork.

Windows: Stopped in wood; aluminum vent sash.

Doors: Painted fir, exterior; white birch, interior.

Interior Walls: 1x4 rough sawn vertical cedar and walnut paneling or plasterboard; Shuksan stone separating living-dining areas.

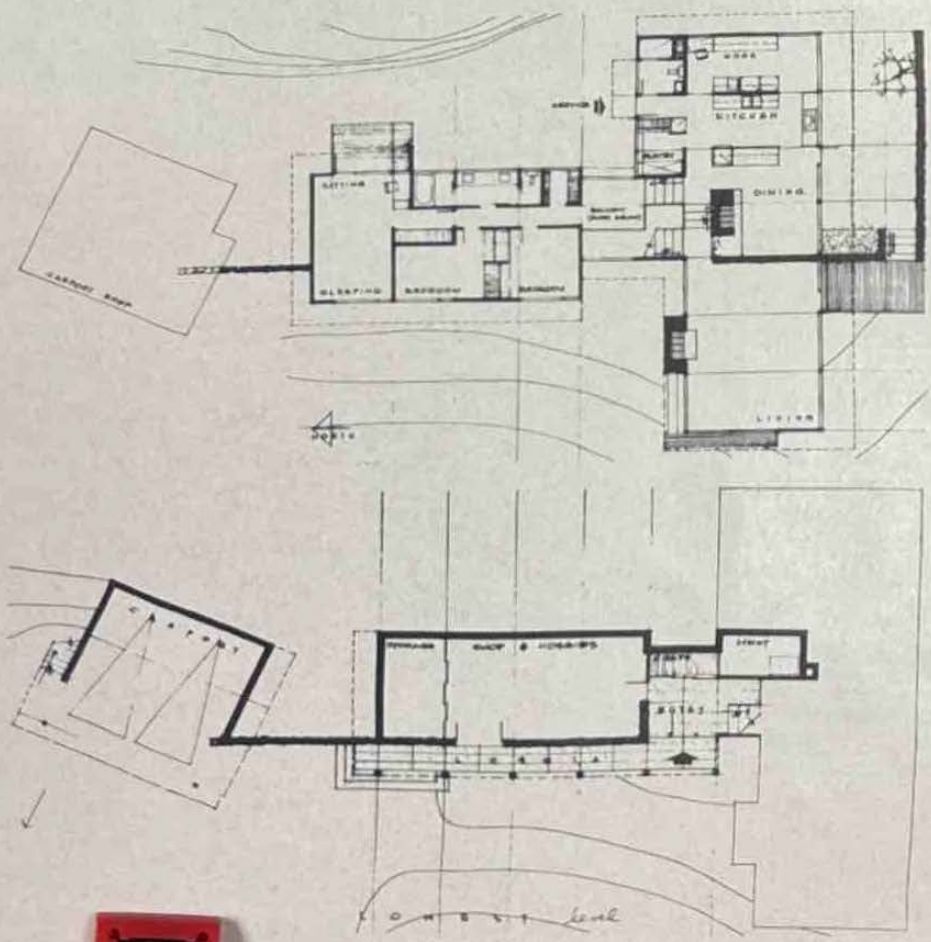
Ceilings: Exposed 2x8 cedar plank decking.

Insulation: Fiberglass rigid above t&g roof decking; batts in walls.

Heating: General Electric oil fired hot air.

Total Area: 1,980 sq. ft. (not including basement or ground level entry).

Cost per Square Foot: $15 (if contracted).

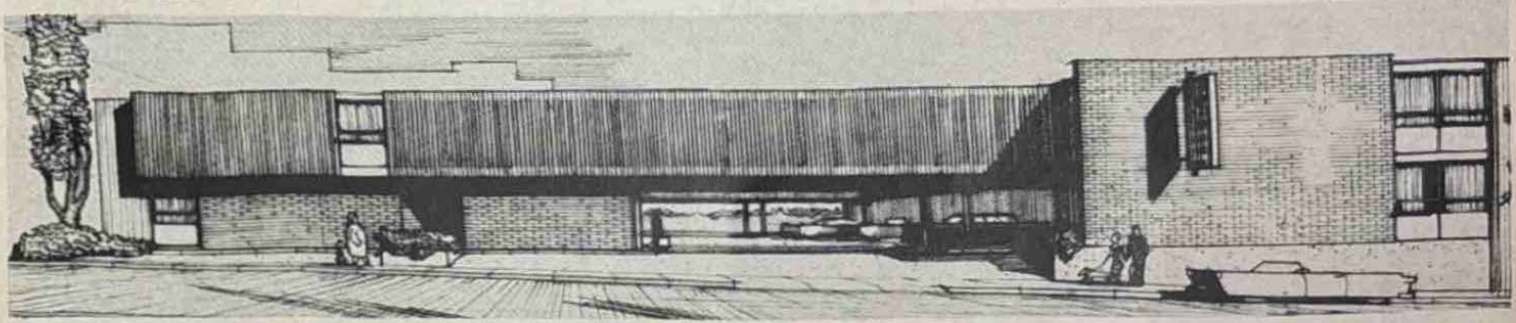






Ray Flamm photos

PARKING SPACE for 40 autos, 100% coverage, is made possible by reserving 60-ft. strip below overhang of second floor. Vertical wood slat screen assures privacy for guests.



Forty units on interior lot

Motel Doyle

San Francisco, California

AKOL, ANGELL & APAYDIN
Architects-Engineers

AMERICAN CONSTRUCTION CO.
General Contractor

OUTLINE SPECIFICATIONS

Type of Construction: Masonry; two-story, no basement.

Exterior Walls: Integrally colored concrete brick and California redwood.

Interior Walls: Philippine mahogany; mineral wood applied in staggered stud partitions.

Ceilings: Exposed beams and sheathing.

Special Equipment: General Electric kitchenettes with 24-in. Spacemaker range, refrigerator, steel sink, disposal, counters and cabinets in about 20 units.

Heating: Thermostatically controlled individual wall units.

Total Area: 13,000 sq. ft. usable space; 2,000 sq. ft. covered walks; 2,500 sq. ft. covered parking for 40 autos.

Date of Completion: Summer 1956.

THE SITE selected by the client was perfect for a tourist court in terms of its location—Union Street and Van Ness Avenue—, being only a short distance from Fisherman's Wharf and close to San Francisco's shops, theaters and night clubs. It posed a problem, however, in terms of design, being comparatively small—117x138—and surrounded by other structures. An additional complication was the heavy traffic of the area and the need for adequate off-street parking for guests.

The architects had these alternatives: to plan three full floors above a parking area, obtaining 75 units and utilization of the entire lot for parking; or to plan 40 units on two floors, using a 60-ft. parking strip and obtaining about 50% land coverage. They chose the latter because the cost per unit would be so much lower inasmuch as neither elevators nor an extensive substructure would be required.

What resulted was a 110x127-ft. open square with 28-ft. wide wings parallel to Union Street, presenting a unified front and the appearance of a single large building and giving greater access to the parking area. The plan provided 13,000 sq. ft. of usable space, plus 2,000 sq. ft. of covered walks and 2,500 sq. ft. of covered parking for at least 40 automobiles, 100% coverage.

To insure privacy of rental units within the court, the architects designed a wood screen of vertical slats on the corridors facing the street. Integrally colored concrete brick used for the base and entrance help to distinguish the motel from nearby buildings.

The shape of the court makes possible a variety of room sizes and shapes—roomettes, suites and small apartments, about 20 of which are equipped with kitchenettes. While all units have soundproof walls and ceilings, budget limitations did not permit soundproofing between the floors. To eliminate noise at its source, wall-to-wall carpeting is used over heavy rubber matting and cocoa straw matting on the exterior circulation decks.

Colors, textures and materials tastefully serve

Berliner's Restaurant, Los Angeles, California

IN AN AREA where such establishments tend toward the bizarre, this restaurant is noteworthy for its elegant simplicity and fine coordination of color, textures and materials. Entrance to the building is through unglazed ceramic tile columns which extend the length of the front wall, interrupted by plate glass windows.

The ceiling throughout the restaurant, which has a capacity of 200 diners, has been broken up into bays coincident with the column spacing by colorful framed baffles. Their job is two-fold: to control sound in the large dining room and to provide an interesting and dynamic visual continuity.

The entire east wall of the dining room was designed to serve as a sound baffling device using painted wood vertical members spaced ½ in. apart. The architect explains, "These boards were affixed to a layer of semi-rigid fiberglass covered with dyed black unbleached muslin. In no instance does wood come into contact with wood, helping to achieve the desired acoustical properties of the room."

The insulation sound-absorbent walls are of plaster, wood and fiberglass; ceilings of acoustical tile or plaster; floors of vinyl asbestos; columns of natural finished white oak. Blues, violets and bright orange are the highlighting colors.

All normally touchable areas or surfaces are covered with plastic laminates to produce a hygienic and easily maintainable condition at all times. The kitchen has unglazed ceramic tile wainscots, acoustical tile walls and ceilings, coved bases and curbs and stainless steel-clad interiors of the walk-in refrigerators. The restrooms also have ceramic tile wainscots and metal partitions.

The restaurant has year-round air conditioning, recessed incandescent light fixtures, architect-designed custom chandeliers, wall bracket fixtures and heat lamps at food surfaces.

The rear portion of the public area has family type booths and features five paintings done by a Swiss artist commissioned by the client.



CLOTH STRIP LOUVERS prevent sun glo striped charcoal and white plasticized cl awning minimizes brick of side buildings.

VICTOR GRUEN & ASSOCIATES
Architects

C. L. PECK CONSTRUCTION CO.
General Contractor

COLORFUL FRAMED BAFFLES break restaurant up into bays coincident with column spacing. Exhibition cooking equipment and work areas are in stainless steel.

Robert Cleveland photos



IN PUBLIC USE AREAS all counters, partitions and food service equipment are of solid colored plastic laminates, floor is of vinyl asbestos.



WOOD VERTICAL MEMBERS spaced ½ in. apart make up entire east wall, serve as sound baffling device.



WAIST-HIGH PANEL WALL separates dining and waiting areas. Chandeliers are architect-designed.



OUTLINE SPECIFICATIONS

Exterior: Unglazed ceramic tile columns and pilaster; windows encased in laminated and stained oak frames, with adjustable vertical plasticized cloth louvers.

Doors: Tempered plate glass.

Floors: Vinyl asbestos finish.

Ceiling: Acoustical tile or acoustical plaster, broken into bays by framed baffles affixed to layer of semi-rigid fiberglass covered with unbleached muslin.

Interior: Natural finish white oak columns; painted plaster, painted wood and fiberglass sound-absorbent walls.

Equipment: Stainless steel exhibition cooking and work area; plastic laminated counters, partitions and food service equipment installed by Dohrman Hotel Supply; unglazed ceramic tile wainscots in kitchen.

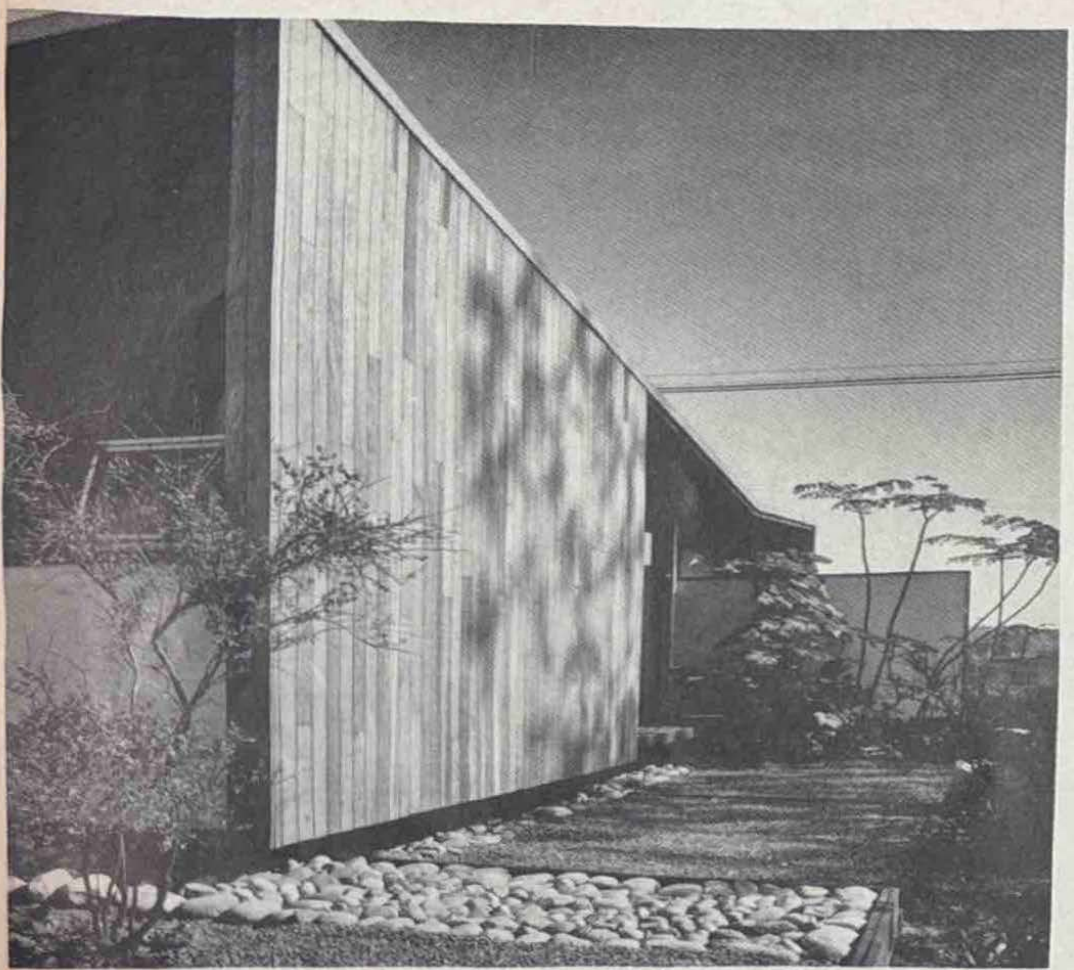
Total Area: 5,310 sq. ft. (including 325 sq. ft. in basement used for storage and equipment).

Total Cost: $90,000, construction; $65,000, kitchen and dining room equipment.

Date of completion: August 1956.

Where architects hang their hats

GENE ZEMA, AIA
A. O. BUMGARDNER, AIA
Seattle, Washington



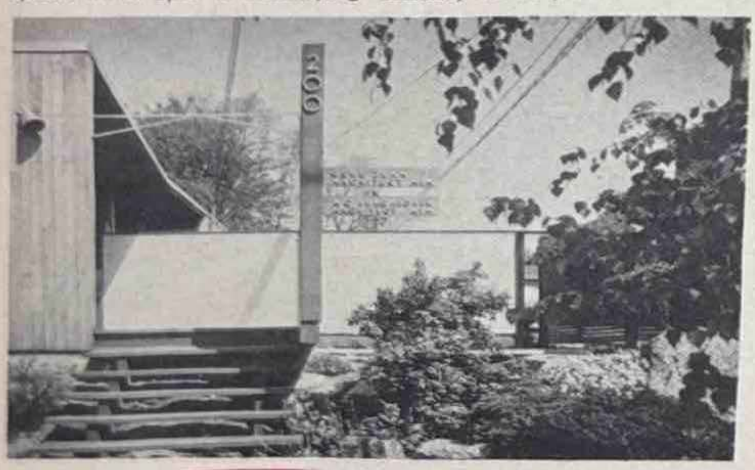
Art Hupy photos

OUTER WALLS AND GLASS PARTITIONS seem to enlarge interior spaces which open to landscaping—basically native plants.

IN DESIGNING his own office buil ing which he shares with a partner, Ge Zema set the frame structure back the lot to dramatize the vista from nearby arterial and used landscaping act as a buffer for noise and privacy

The building was planned to hov over the ground area in an attempt isolate a precise element from natur contours. Cantilevers give depth a added space interiorwise; screens an low retaining concrete walls help elongate a basically confined structure Color panels (sign and bisecting whit wall) relate to the total design. Th butterfly roof defines reception and co ference areas and permits large gla portions in the drafting room for natura north light.

Materials: cedar siding inside and out aluminum sash; plywood floor over 2x joists, with vinyl tile in the drafti room; laminated 2x4 fiberglass insulate hot mop roof with gravel.





PA&B
T-square talk

NEW FIRMS: Hollis Johnston and Robert J. Koch, both AIA, have formed a partnership under the firm name of Hollis Johnston & Koch, and will continue their location at 208 S.W. Stark St., Portland. Koch has been employed in Johnston's office since 1948 when he completed his architectural course at the University of Oregon. He became a registered architect in 1952. Johnston is a 1917 graduate of the University of Oregon. Charles R. Kaufman, AIA, and Frank E. Kelly are associate architects.

In Spokane the architectural firm of Funk, Murray & Johnson has been formed at 524 W. Fourth Ave. Former partners Albert H. Funk, AIA, and Carl H. Johnson, AIA, have been joined by a new principal, Donald H. Murray, who has been associated with the two men for the past 11 years.

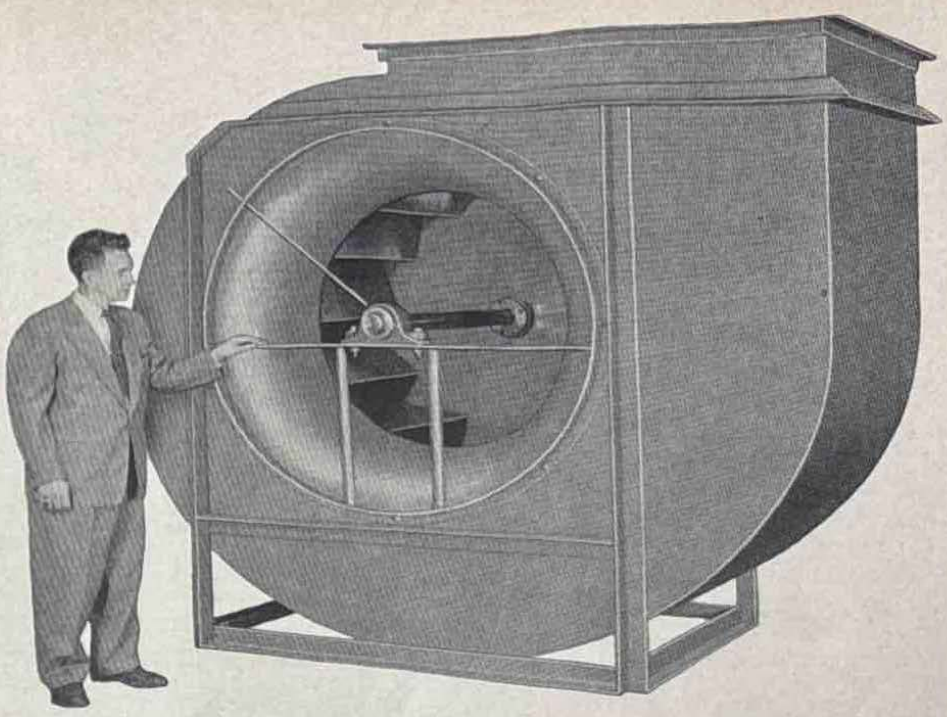
Edwin W. Molander, AIA, 12 years with the firm of Funk, Molander & Johnson, has organized a new architectural firm at N. 5013 Division St. under the name of Edwin W. Molander & Associates. Other principals are his son, John B. Molander, and Aubrey H. Forsyth.

A new architectural partnership in Portland, Jensen & Gilham, has been formed at 2266 N.W. Lovejoy by John Jensen and Louis Gilham, who has been employed in Jensen's office for the past few years.

Principals in the new architectural-engineering firm of Rack & DeMasirevich, Inc., at 140 N. La Brea Ave., Los Angeles, are Robert E. Rack, formerly registered architect in Texas and Illinois, and George DeMasirevich, AIA. Rack served for six years as chief architect and land planning consultant for the FHA; DeMasirevich formerly was associated with the United States Legation in Budapest, where he directed the master plan for rebuilding the war-damaged city after World War II.

NEW OFFICE: Derk Vyn has opened an office for the practice of architecture at 651 Waverly St., Palo Alto, Calif. (DAvenport 2-2346).

DIED: Architect Harold Holmes, 74, of Everett, Wash., died January 5 after a brief illness. A native of Chicago, he established his own firm there and designed the Butler Brothers Building and the Masonic Temple. Coming to Seattle in 1941, he became associated with the architectural firm



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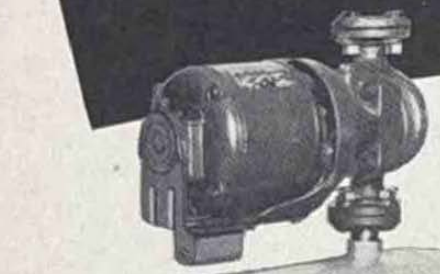
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SAN FRANCISCO, CALIF. 1122 Howard St. Phone UNderhill 1-3527

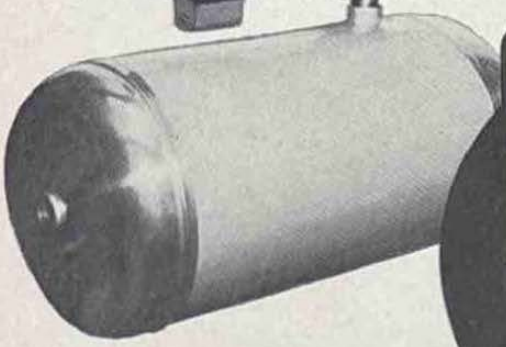
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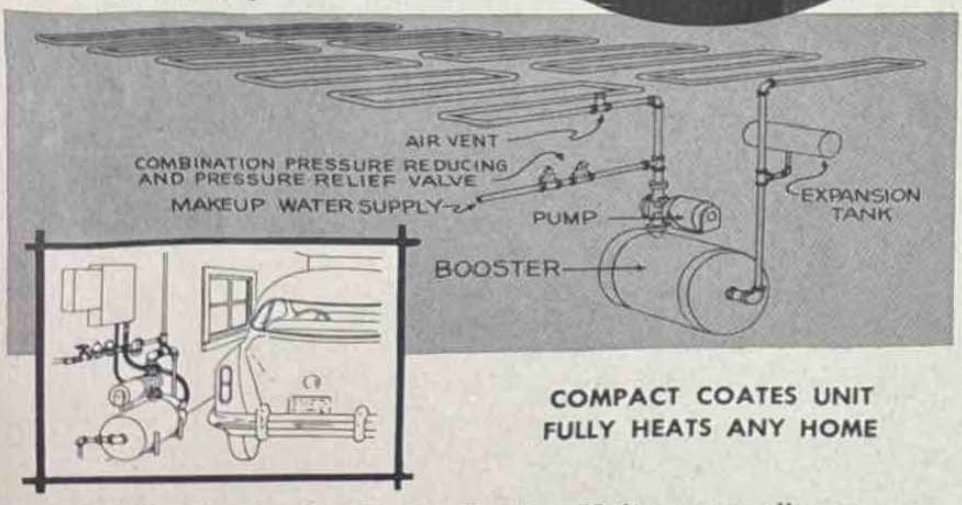


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of John Graham & Co. and later w John W. Maloney. Holmes was d signer of Providence Hospital in Sp kane and helped plan the Frederi & Nelson store in Seattle. He move to Everett in 1951.

The designer of St. Catherine Church in Burlingame, Calif., archi tect Martin Rist, passed away in Stan ford Hospital December 4 after short illness. The English Gothi church has become a Peninsula land mark.

ON THE MOVE: The architectura firm of Hale & Jacobsohn has move to larger quarters in Mission San Jos on the Mission-Irvington Road, Fre mont, Calif. (OLiver 6-1000).

BACK IN HARNESS: Frank Stanton AIA, has resumed his specificatio service for architects and engineers a the College Club, 601 Spring St., Se attle (MAin 0624).

NEW JOB: A. M. Runtz, AIA, Port land architect who for the past year has been executive secretary of Ore gon Building Congress, resigned in January to take the position of archi tect in the Public Works Branch a the U. S. Naval Air Station located at Oak Harbor on Whidbey Island, Wash. He is succeeded by Martin Fitzgerald.

AIA activities

SOUTHERN CALIFORNIA: New chapter president is Cornelius W. Deasy, former secretary and director. Other officers are Robert Field, vice president; Stewart D. Kerr, treasurer, and Edward H. Fickett, secretary. Directors are Burnett C. Turner, three years; Stewart S. Granger, two; George Vernon Russell and past president Paul Robinson, one.

OREGON: Nathaniel A. Owings, AIA, of San Francisco will be guest speaker at the chapter's 46th annual banquet March 5 at Portland's Columbia - Edgewater Country Club. Richard W. Norman, banquet chairman, announced that a social hour will begin at 6:30, with dinner set for 8 p.m.

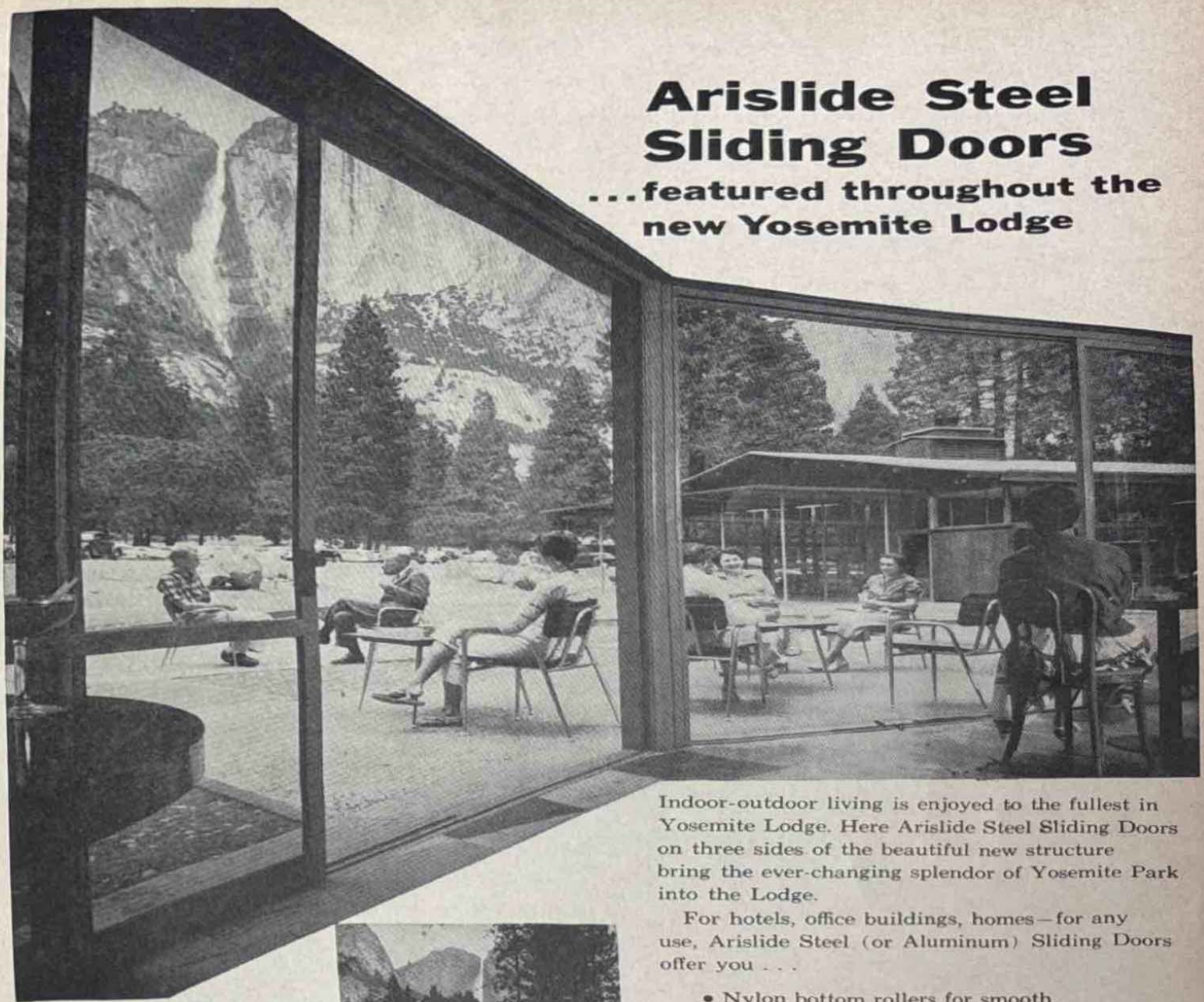


FRITSCH

Robert W. Fritsch was installed as president of the chapter at the annual meeting February 12, succeeding Donald W. Edmundson who becomes a director. Other officers are Earl P. Newberry, vice president; Charles Gilman Davis, secretary; and Thomas I. Potter, treasurer.

Arislide Steel Sliding Doors

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Spencer & Ambrose, Architects
Oscar Hedahl, Contractor

Photographs courtesy Yosemite Park and Curry Co. Yosemite National Park, California

• Ariston Semi-Intermediate Projected Type Steel Windows in the new Yosemite Lodge also furnished by Michel & Pfeffer

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Construction front



EIGHTY 50-FT. GIRDERS resting on poured columns form basis for stairlike stadium structure.

Prestressed, precast concrete members speed stadium job

Students at Portland's new Woodrow Wilson High School watched their athletic stadium mushroom to completion almost as fast as they changed classes. The secret: prestressed, precast concrete girders and slabs.

Eighty 50-ft. girders which rest on poured columns form the basis of the stairlike stadium structure. Upon these girders were placed horizontal slabs, 25 ft. 8 in. in length, 24 in. wide and 12 in. deep. In all 154 slabs were used to complete the giant risers.

Girders and slabs were supplied by Empire Building Material Co. for the contractor, Hoffman Construction Co. The project was planned by Edmundson & Kochendoerfer, architects — R. Evan Kennedy, engineer, with James & Honey, consulting engineers.

Special drilling technique whips ghost of San Francisco's past

Excavating crews, clearing a site for a $4 million underground exhibit hall, latest addition to San Francisco's Civic Center, expected to find only sand in the block-square park area across from City Hall. But they ran into brick walls and concrete foundations a few feet under the surface.

The debris turned out to be the long-forgotten remains of the previous city hall destroyed in ths disaster 50 years ago. One subcontractor has been able to drive through the rubble by employing a special drilling technique and using high-strength caissons.

In their drilling operations, Laufenberg Brothers use a unique rig which bores through the rubble-strewn sand to a depth of 10 ft., then drives a 12-ft. long caisson made of sheet steel down the hole.

The 28-in. dia. caisson is then filled with drilling mud and the hole drilled on to a depth of nearly 40 ft. The column of heavy mud and sand, together with the caisson at the top, form a shaft in which the upright is installed.

Montague Pipe and Steel Co. fabricate the caissons from No. 8 gauge Kai-Well sheet. General contractor is Theo. G. Meyer & Sons, with the firms of Wurster, Bernardi & Emmons and Skidmore, Owings & Merrill as joint architect team. H. J. Brunnier is structural engineer.



UNIQUE RIG BORES to depth of 10 ft., then drives 12-ft. long caisson made of sheet steel down hole and short distance past bottom.



TWO CRANES move 35-ton concrete slab into position (note equalizers). Panels are some of largest ever erected in southern California.

New approach to tilt-up slab and structural frame design

Some of the largest panels for tilt-up construction ever erected in the southern California area have been employed by the architect-engineer division of Aerojet-General Corp. in designing an engineering building for the company at Azusa. Each slab weigh about 35 tons and measures 20 ft. by 33 ft. and is 7½ in. thick.

In order to expedite construction due to the time required to install the main floor duct system, forms were built outside the structure and the tilt-up slabs were cast in stacks of five. The slabs were connected by cast-in-place columns which were used as the seats for the structural steel framing for the second floor and roof.

An interesting feature of the work was that the only entrance and exit to the building's interior for the erection of structural steel was through the lobby. This required an accurate steel shipping schedule so that when the last piece of steel had been set in place the crane could still leave the building.

Completely air conditioned, the building has been planned for a light intensity of 100 footcandles at desk height. In order to eliminate noises, the ceiling of the first and second floors will be treated with a sprayed acoustic material. No exterior openings have been provided except corridor and lobby exits as required for personnel use.

The air handling and distribution system is located in a penthouse on the flat built-up roof. Central core areas are directly underneath.

Material handling ideas can increase your profits

by GLENN M. CANADAY

BUILDING PLANS and specifications are often so precisely and minutely executed that a contractor seeking ingenious methods of operation is severely hampered. Material handling is not fettered by such restraints. The contractor with initiative and imagination will find many opportunities to reduce material handling costs.

Much of the cost of labor is moving materials and fabricated items from one job location to another. The savings are to be found in using or devising methods of handling that reduce the time involved and require a minimum amount of labor.

The conventional method of assigning a truck and a crew of laborers to take care of the material handling on a job is no longer sensible nor profitable. Fork lifts, power buggies, elevators, hoists, conveyors and cranes are available in types and sizes to fit almost every operation. Renting or purchasing equipment suited to the job at hand can often mean the difference between profit and loss. Makeshift use of equipment in your yard, just because it is available, should be carefully considered. Often it pays to rent or purchase an item exactly fitted to the operation.

Survey your present jobs. Every time you see a man lifting or carrying material ask yourself if there isn't a faster, more economical way to do the job. Careful planning and coordination will reduce the number of times a unit of material must be moved to install it in its final location in the structure on any job operation; combined with the right equipment and the right methods, substantial savings will result.

Fork lifts are one of the most useful types of material handling equipment. They are made in a variety of types and sizes to suit almost any job. The fork lift can load itself, transport the load and unload itself, requiring only the operator. In comparison, a flat-bed truck must be loaded and unloaded, often requiring considerable hand labor. Only a few years ago it was common practice to unload the supplier's truck of lumber with laborers, stack the lumber in the storage yard, reload it by hand on a flat-bed truck, haul it to the building being constructed and again unload it with laborers. If used on the second floor or roof, it was often handed up piece by piece. This type operation is costly and time consuming.

Today's contractor will insist that the lumber be delivered in suitable sized units on a truck equipped with rollers. The load will be rolled onto dunnage previously positioned on the ground, the entire operation requiring only a few minutes of one man's time. When needed, the units of lumber will be picked up by a fork lift, transported to the required location and unloaded—again consuming only the time of one man.

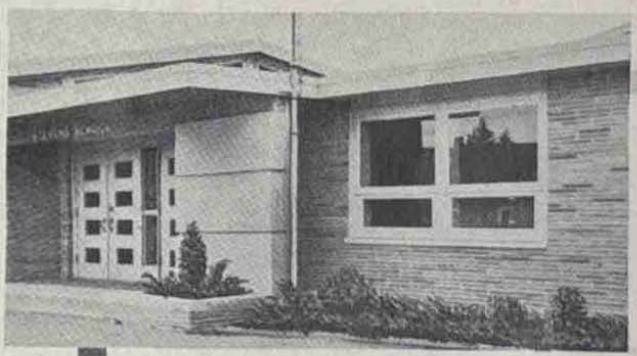
Trash boxes that can be loaded on a truck with a fork lift, A-frame or crane are labor savers. Containers for miscellaneous items of form hardware save handling time. A flat-bed truck that dumps will cut your trash hauling costs in half.

I recently observed a job where laborers were hauling 2x4-ft. form panels from the interior of a building with concrete buggies, two panels per trip. One man with a flat-bed power buggy could have done the work of three or four.

Hand carts can save time in many small job operations. A rubber wheeled cart to hold a carpenter's tools, extension cords and a supply of hardware can increase his production 30%. A cart designed to haul metal doors, frames, etc., can double or triple a laborer's output.

Unusual conditions may make it profitable to devise and construct hoists, carts, rollers or conveyors particularly for a certain job. Careful analysis and sound advance planning combined with an inquiring mind are required if you are to provide the exact item of equipment that will get the job done fastest and most economically. Discussions with your superintendent and foremen will pinpoint problems and suggest solutions.

Forethought, planning, regular discussions with job supervisory personnel and a constant lookout for fresh material handling ideas will pay off, both in new jobs and added profits to jobs under construction.



architect:
JONES & BINDON

contractor:
RALPH CHISHOLM

Chehalis Buff Roman Brick

. . . adds charm, color, economy
to new **Stevens School** in Aberdeen

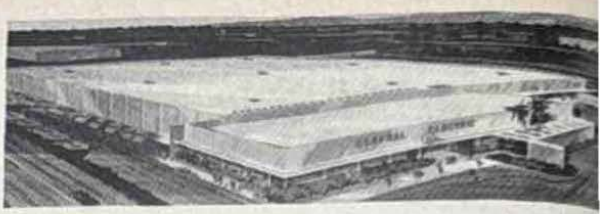
More and more architects are specifying the Northwest's most distinctive brick—Chehalis Brick—for school construction. Chehalis Brick combines the appealing colors and textures that are typical of the area with all the natural advantages of brick: attractive design, permanence, and fire-safety—plus the long-range economy of lower maintenance costs.

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FIRST OF 496 prestressed concrete roof panels is fitted in place (left) as part of General Electric warehouse, designed by Albert C. Martin & Associates. Panels were pretensioned and cast in specially fabricated beds located on building site.

Construction history is made in Los Angeles

On-the-site prestressing: less limitation and less cost

LESS RESTRICTIONS on the use of prestressed concrete will likely be achieved with the development of a building method employed on the million-dollar General Electric warehouse and offices in Los Angeles. Pretensioned, prestressed concrete roof panels were manufactured on the building site by the contractor.

Prestressed concrete presents a number of advantages. In many cases spans can be doubled in length as compared with reinforced concrete; fewer columns are needed; structural strength is achieved with far less dead weight; substantial time savings can be made; the architect is offered much greater design opportunities.

Up until now prestressed concrete has been limited by availability. In Los Angeles, for instance, only one company is equipped to furnish the panels as specified for the GE project. A similar situation exists in most large cities, while transportation costs are a prohibitive factor where this type of construction is being considered for outlying areas.

Among several contractors who bid on the job was the low bidder, Noyes Roach Co. in joint venture with C. L. Peck. Roach recognized that every competing contractor would likely be restricted to identical figures on the cost of prestressed concrete. Since this material was specified for 100,000 sq. ft.—more than 83% of the total area—it was agreed that here was the place to cut costs, if possible.

Calculations had to include the cost of designing, building and operating the pretensioning casting beds as well as the usual estimates concerned with the cost of the building itself. Even with these extra expenses, Roach could produce the specified panels and beams for less than the price quoted by the one Los Angeles prestress firm. A comparable firm, located in San Francisco, could not compete due to the $25,000 it would have cost to transport the 580 concrete sections to Los Angeles.

Designed by Albert C. Martin & Associates, architects-engineers, the plans called for 496 roof panels and 84 girders. Panel dimensions are 40x5 ft.; girders are 18 in. by 16 in. by 26 ft.

Engineering consultants T. Y. Lin & Associates worked with the contractor in designing and setting up the casting beds. These were built to meet the requirements of the immediate job, without much anticipation of future use.

However, some salvage is practical and Roach believes that his head start may give him a bidding edge on future work when on-the-site prestressing again makes sense.

For the GE project, Roach installed four panel beds and one girder bed each resting on a 4-in. concrete slab. Simply described, the casting beds consist of fabricated sheet steel forms supported by reinforced concrete beams. Sufficient anchorage is provided to handle calculated stress but the entire pretensioning plant was devised as a temporary facility, with a view to reasonably easy dismantling and removal.

High-tensile steel cables are strung the length of each casting bed and tensioned by hydraulic jack. Twelve wires are used in the girders, eight in the roof panels. Extreme care is taken to assure that each wire gets equal tension, while a unique method of harping controls the camber of each span.

Ground was broken for the warehouse and office building July 9. On September 14 concrete was first poured into a casting bed.

With all forms in use, 28 roof panels and seven girders were produced every three days. Meanwhile, as the stockpile of prestressed concrete sections grew, the building was taking shape. By the time the foundation and floor were finished and supporting columns were in place, Roach was ready to start erecting roof panels to cover 120,000 sq. ft. of area.

Here is one of the great advantages of prestress construction: a minimum of waiting time, still further abetted by the convenience of having the stockpile so close at hand.

Other builders will undoubtedly be encouraged to use a similar method where conditions warrent. Perhaps prestressed concrete subcontractors will develop portable casting beds which may be economically moved from site to site.

FINISHING CREW puts final touches on panels while another 350-ft. casting bed (right) is prepared for pour. Each bed accomodates eight 40-ft. panels, maintaining 56-ton stress during 2½-day curing period.



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Aesthetic value of materials in architecture

An address presented by an associate partner of Skidmore, Owings & Merrill before the 18th annual convention of the National Association of Architectural Metal Manufacturers.

by ROBERT K. POSEY, AIA

THE ART HISTORIAN of today sees maturing about him a great new style of architecture—an architecture not for Tudor England nor for classic Greece, but for America of the industrial 20th century.

In order to better understand this new style I should like to go back, if I may, in history to the dawn of our civilization and retrace briefly the path that has led to the present; and to recall some basic influences that have limited or affected us in this changing scene. Great changes came about because old cultures reached a stage of magnificence only to decline and finally give way to new intellectual concepts. The social pattern of each age was reflected in its architecture. The excellence of its buildings, in turn, were judged by originality of structure and the success with which they employed available materials.

Our oldest existing monuments—those of Chaldaea and Egypt—belonged to advanced civilization. Social man had already established rigid styles of aesthetic expression. The scarcity of timber and the lack of good building stone, the abundance of clay and the flatness of their desert country imposed upon the builders of Chaldaea tight restrictions of form and material. Their principal structural material was sun-dried brick of low tensile strength. Thick, windowless walls were necessary both for stability and for protection from the burning heat of the climate. They employed the brick arch and the barrel vault for roofing their narrow dimensioned rooms. Interior walls were paneled with alabastar slabs carved with low-relief scenes of battles and gods. Brilliantly colored enameled tiles, rugs and tapestries added richness to this simple architecture.

The pyramids of Egypt are elaborate outgrowths of an architectural technique of greatest antiquity: piling stone upon stone in an effort to form everlasting burial mounds. The narrow valley of the Nile was flanked by rocky heights which afforded an abundance of excellent building stone. The royal tombs of the Old Empire and the vast colonnaded temples of the more mature 20th century B.C. were built of stone. They were decorated with alabaster carvings and brilliantly colored reliefs. In their painting and sculpture the human figure was idealized in precise accordance with the custom of the day. The architect was allowed no freedom in either structure or decoration. There were no jurisdictional disputes amongst the hordes of forced labor.

The Greeks too built in accordance with hard and fast rules. They were forced to confine their efforts to a singleness of plan and facade. Their details were executed with the most extraordinary refinement and care. The seemingly straight lines of the Parthenon were all slightly curved and the vertical faces inclined. But this perfection was that of the sculptor rather than the architect—and it required many years of painstaking labor. Their materials were stone and wood. Glass and metal were still media of the minor arts.

Rome, at first deficient in culture, was yet able to recast Greek forms of architecture into new molds and to give it a flexibility by which it accommodated itself to a wide variety of materials and conditions. They made the arch and Etruscan vault the basis of their structural system. They brought engineering into the service of architecture and they developed planning into a fine art. Their materials were brick, concrete, plaster and stone. Their interiors were splendid in the color of mosaics, frescoes and precious materials. Masonry was the load-bearing material but sometimes the stones of heavily loaded piers were tied and clamped with iron. Glass was used sparingly except in Byzantine work.

During the Moslem interlude, in the evolution of our culture, stained glass made its appearance on a large scale. This medium was destined to reach great heights of glory in the new Western civilization born of the Christianizing of the Celtic and Germanic races. Gothic structural forms were rich and new. In an engineering sense, they were uninhibited. Masonry was still the prime load-bearing material and it held this position until the advent of our industrial revolution. This revolution has changed radically our social pattern and has made available new construction materials. We have found that these two great influences determine the character of the architecture of our age.

In the year 1847 the American inventor, James Bogardus, built in New York City a five-story factory which was the first cast iron frame structure.

The building of the Crystal Palace in London in the year 1851 established the practicability of building in cast iron and glass. This tremendous edifice was 1,851 ft. long and 178 ft. high (16 or 17 stories). On one occasion, it housed 93,000 people together with the trees which were already on the site and were simply left standing on the inside of the structure. It stood until 1937 when it was destroyed by fire. Although this life span of 86 years does not compare with the long life of the Pyramids, it does exceed that which we now deem economical or necessary in the light of the quick obsolescence of mechanical equipment which, in cost, represents one-half of the office skyscraper of today.

Although limited in acceptance, the development in the first half of the 19th century of this new building technique paralleled a very powerful industrial expansion throughout Europe and America. During that period, we began to design, build and use machine tools that were destined to replace completely the craftsman's handicraft long before our time.

Architects floundered through this transition to machine production without fully realizing the all-out completeness of its social and aesthetic upheaval. We took great pains in a misguided effort to make machines duplicate the art of the master craftsmen of old. Only dispirited imitations resulted and the artist was very nearly forgotten in a flood of mass production. Architects resorted to scholarly reproduction of old forms rather than inventive searching for new idioms of expression. They sold to their clients Neo-Greek or Neo-Gothic.

Forgotten were the lessons learned from the builders of the Crystal Palace. The challenging fact that wide spans could be attained by use of delicate steel framework was hidden behind heavy masonry facades disfigured in slavish imitation of the artistic decorations of the past. Glass, although now made in large sheets, was cut into small panes—painfully small panes—because there was no

continued on page 41

not specified

architects and building contractors: not such strange bedfellows after all

On one of those typical cold January mornings in the Inland Empire (Saturday, the 19th, to be exact), some 60 architects and building contractors sat down over coffee in the Spokane Club to take a look-see at their mutual problems. This sort of thing doesn't happen every day, of course, but there was something far more significant about this particular meeting.

The first annual Building Forum was co-sponsored by the Eastern Washington Builders Chapter, AGC, and the Inland Empire Chapter, AIA. This meant that neither group was the guest of the other, so that all concerned started out on an equal footing and didn't have to worry about stepping on somebody's toes—and more than one got bruised in the process!

After being welcomed by the presidents of both groups (Al Rudd of the AGC and Bill James of the AIA), each of five speakers was alloted 20 minutes to present his side of the building picture: Donald J. Stewart of Portland, Northwest regional director, AIA; D. J. O'Neil, chief of engineers, AEC, at Richland, Wash.; Cols. R. J. B. Page and Myron E. Page Jr., district engineers, Corps of Engineers, at Seattle and Walla Walla, respectively; and Willard G. Sweany, Seattle surety consultant. The two groups had a leisurely lunch, then heard the assistant manager of the Building Division, AGC, from Washington, D.C., John K. Bowersox. And finally contractor H. Halvorson moderated a panel, with all guest speakers as targets.

To report what was said is not our intention. But we do want to emphasize that here was a grass roots approach to better architect-builder relationships with give and take on both sides. Some of the questions—and some of the answers—proved a bit embarrassing; some of the queries went unanswered or at least were evaded; but a good many of them did stimulate further discussion or study after the session was over.

This editor felt that the forum was a definite success and apparently the participants did too, for they decided to hold another such meeting, very likely before year's end. Sure, there were some kinks which will have to be ironed out but that's true of any such first-run affair. For example, panel discussions always pose the danger of main issue becoming sidetracked or of one topic or personality hogging the floor.

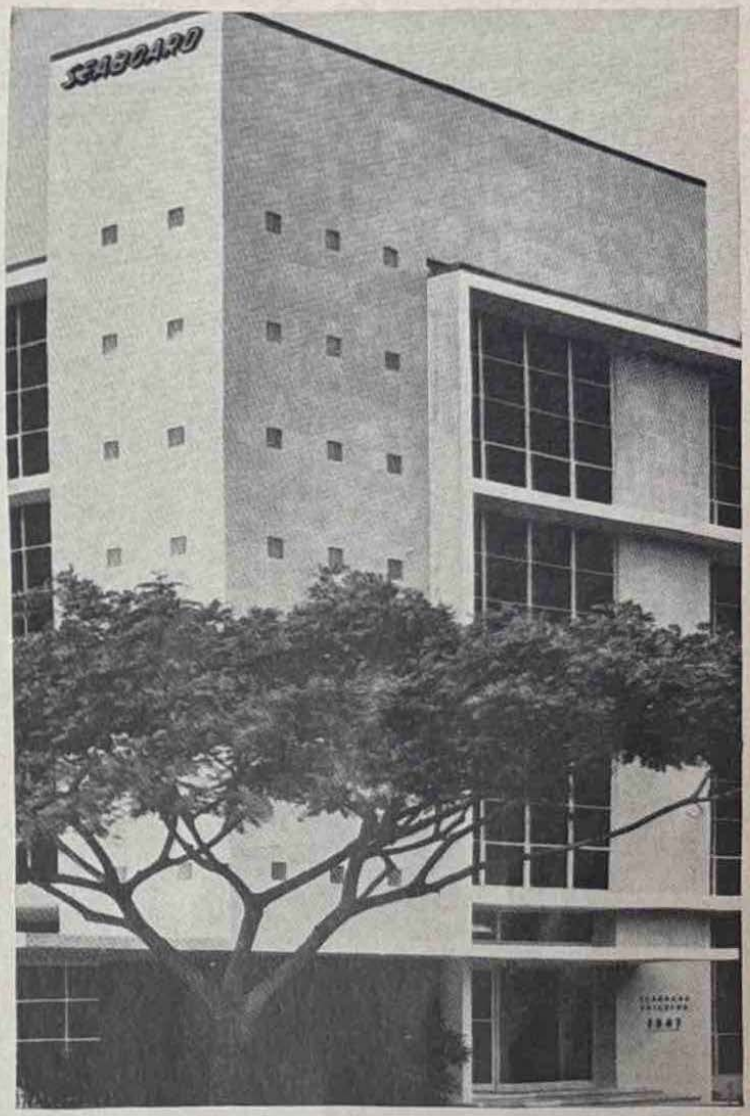
The architects and builders returned with their wives to enjoy a buffet, entertainment and dancing—a most pleasant way to wind up a topnotch contribution to closer harmony in the building industry.

back to the roost

This month Glenn M. Canaday, a name with which PA&B readers are familiar, returns to our columns with his "Talks with Contractors." He is back in the states after spending more than a year in Alaska as project coordinator for the White Alice project. Now he's project manager for the Sage project near Tacoma, part of the link which will serve the Distant Early Warning (DEW) Line north of the Arctic Circle.

We still receive an occasional request for Glenn's popular series on preparing the building estimate, which ran two years ago, but unfortunately our supply has been exhausted. Other articles which he has in the hopper will enable us to present a more comprehensive picture of the building industry on the coast.

Seaboard Finance Co., Honolulu, T.H. Merrill, Simms & Roehrig, Architects



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METAL FORM: A metal form for use in waffle type concrete joist construction is quickly blasted free of the hardened concrete with a jet of compressed air, leaving smoothly patterned ceiling surfaces. With Steeldome forms one man merely presses an air gun against a fitting set into the form, while another man stands by to grasp the form as it is blasted free. This method protects the smooth concrete surfaces from chips and scratches, leaving an attractive ceiling suitable for finished locations. Standard Steeldomes have a void of 30x30 in. and an overall plan size of 36x36 in., including flanges; standard depths are 8, 10, 12 and 14 in.—Ceco Steel Products Corp.

(Item No. 1)

STEEL BATHTUB: The Salem is a 5-ft. recess bathtub, made of 14-gauge deep-drawn enameled steel and available in white or one of five colors. A self-supporting or free-standing fixture, it is easy to install, has straight floor and wall tile lines and flanges at both back and ends for tiling. The tub can be obtained with either right or left outlet. — American-Standard Plumbing and Heating Division.

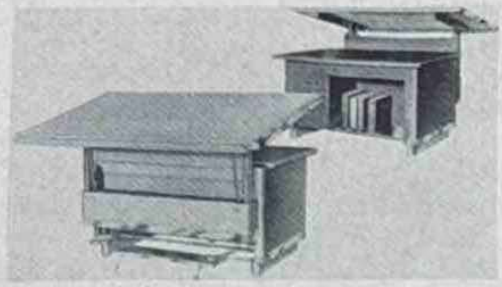
(Item No. 2)

CENTRAL HEATING: An inexpensive, easy-to-install central heating plant for schools, churches, warehouses, factories and other large area buildings has been introduced by Carrier in its line of direct-fired heat diffusers. No central boiler is required for this complete high capacity heating package, thus reducing the first cost below that of central systems. Factory wiring and prefiring make installation easy. Only fuel and electrical connections have to be made and the unit vented before it is ready for operation. A wide choice of installations is provided ranging from wall or ceiling suspensions to floor mounting. Ducts can be used to distribute heat into areas where direct circulation from diffuser outlets would not be adequate.—Carrier Corp.

(Item No. 3)

PLASTIC TILE: Builders can avoid the monotonous effect of butt-to-butt application of plastic tile with a new grout strip. Of white matte finish plastic 1/10-in. wide and 1/16-in. deep, the strips are just the depth of the beveled shoulder of a plastic tile. Tile and grout strips are applied alternately in the same bed of adhesive. Units for use with bull nose cap, outside corners and cove molding are supplied.—Artcraft Plastics Co.

(Item No. 4)



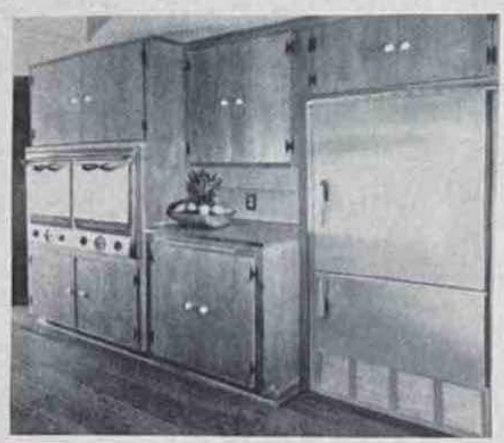
DRAFTING UNIT: To increase the efficiency of drafting and engineering operations, Stacor has introduced a combination drafting-reference unit which makes more flexible, productive use of existing floor space. A row of Stacor-Matic tables serves the men in front as reference facilities and the men behind as drawing tables, so that each has his own compact "office" and it is not necessary for him to leave his seat for reference. Reference surface is reinforced steel covered with desk-top linoleum. All units have island bases. — Stacor Equipment Co.

(Item No. 5)

HAND RAIL BRACKETS: Adjustable Ariston handrail brackets can be instantly aligned in any direction on the wall surface, eliminating installation problems caused by off-center anchor bolts. The anchorage is completely concealed. The design incorporates a shell-molded bracket that fits over a mounting plate and adjustment disc and is held firmly in place by a stainless steel socket set screw. Easily installed on any wall surface, the unit is finished in aluminum or bronze, either satin or polished. — Michel & Pfeffer Iron Works, Inc.

(Item No. 6)

REFRIGERATOR-FREEZER: Thermador's self-contained, built-in refrigerator-freezer has a stainless steel front



to complement any room decor; t grip handles are of polished chro with brass and midnight blue trim match the companion electric ra units. Planned for organized stora easy accessibility, simplified clean and slide-in installation, the la 14.2 cu. ft. model occupies no m space than a conventional refrige tor. It is 70½ in. high by 35½ wide by 24 in. deep, yet has a roo 22.3 sq. ft. shelf area. The separ freezer compartment stores up to lb. of food.—Norris-Thermador Co.

(Item No.

WIRING: Baseduct is a complete el tric wiring system at the baseboa level where it is most convenient a yet least conspicuous. It is instal directly on the floor and requires footers, trim nor capping of any kin To effect reduced installation ti and expense, only three fittings a required to mount the Baseduct sy tem—an end blank, a combination i ternal and external elbow for corn areas and a standard coupling. Ava able in 5-ft. lengths with duplex r ceptacles on 30- or 60-in. centers, measures 3 in. high and ¾-in. wi —National Electric Products Corp.

(Item No.

FOUNDATION PILE: Field tests ha proven that a new type of foundati pile has exceptional strength chara teristics, especially during drivi Foster pile is made from three ste rail sections welded together at ba edges to form, in cross section, a ho low equilateral triangle with ra heads extending outward at 120 de This design takes advantage of th high tensile, yield and compressi strengths of rail steel. No mandre or other equipment are necessary t drive rail piles.—L. B. Foster Co.

(Item No.

Latest Handbooks, Manual and Literature

Yours for the Asking

CLASSROOM COMFORT: How ther mal environment influences learning is described for architects, school ad ministrators and board members in a 24-page booklet in full color. It graphically presents the particular factors which require continuous con trol of heating, ventilation and cool ing, as well as the method by which a unit ventilator controls these fac-

tors. Also illustrated are two special problems created by cold window walls (excessive loss of body heat to cold surfaces and chilling window downdrafts) can be solved logically. —John J. Nesbitt, Inc.

(Item No. 10)

ASBESTOS-CEMENT PANELS: The variety of uses for fluted and ribbed decorative asbestos-cement panels are explained in Keasbey & Mattison's four-page brochure. Specific illustrations are presented for suggested applications in factories, carports, gables, facades, soffits and recreation rooms. —Keasbey & Mattison Co.

(Item No. 11)

STRUCTURAL ALUMINUM: Harvey Aluminum has issued two brochures to announce its role in the structural aluminum business. A 12-page publication discusses the advantages of utilizing aluminum for structural applications and outlines the design concepts pertaining to aluminum extrusions. Company facilities and history also are presented.

A 34-page publication on aluminum extrusions serves two basic purposes: to point out the vast uses to which they can be applied in new design and to aid those now using aluminum extrusions in improving existing designs.—Harvey Aluminum Structures.

(Item No. 12)

STEEL SUBFLOORING: Inland Steel describes its Milcor Celluflor, a steel subflooring in which the cells are used as electrical raceways and heating and air conditioning ducts, in a revised 20-page booklet. It features fire and load test data, section property tables, engineering details and architects' renderings of buildings in which the product has been used.—Inland Steel Products Co.

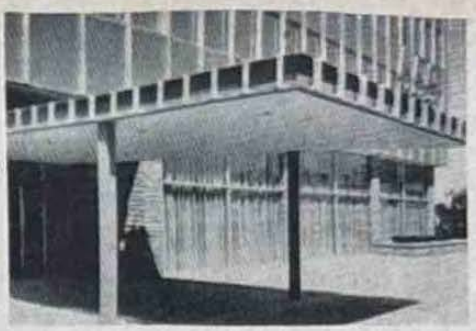
(Item No. 13)

GRILLE NOMOGRAM: The engineer's work in determining the grille size needed to project heated air to the floor is greatly simplified with a nomogram, available on an 8½x11-in. plastic sheet which can be conveniently hung on the wall. Pencil marks made on its face can easily be removed, allowing repeated use. The nomogram is based on the use of round openings but is sufficiently accurate for use with square and rectangular openings having an aspect ratio no greater than four. It is not recommended for use with long shots. —Barber-Colman Co.

(Item No. 14)

HI-FI SYSTEMS: A 16-page photo catalog helps answer questions about installation of high fidelity equipment in architectural applications. One section explains what high fidelity is and how each component functions; another has specifications for installation and technical descriptions of each component.—H. H. Scott, Inc.

(Item No. 15)



PORCELAIN PANELS: Davidson's 20-page reference catalog is really an idea book for architects, engineers and contractors, for it has complete detail drawings and specification data. Current applications in curtain wall construction and facing panels are shown, such as Denver's 655 Broadway Building seen in the photo, along with examples of structures that have been remodeled. — Davidson Enamel Products, Inc.

(Item No. 16)

FIREPLACE DAMPERS: Suggestions on fireplace construction, floor plan requirements and mason's instructions turn a 12-page booklet on the Universal Beneform dampers into more than just a product promotion. Described are several types of dampers, along with such items as fireplace opening supports, clean-out doors, ash dumps, lintel bars, fireplace forms and accessories. — Bennett-Ireland, Inc.

(Item No. 17)

PERLITE DESIGN: The 80-page, looseleaf "Perlite Design Manual" will enable architects and engineers to design and specify various components of a complete building section—roof and floor systems, curtain wall backups, etc.—in minimum time without restricting their freedom to make special adaptations. Extra copies of each of the 18 different specification and data units are available for use on the construction site and for preparing bids. Easy-to-use charts and tables eliminate the need for computing U-factors, dead loads and load-carrying capacity data for many types of construction. Covers of unit sections feature an architectural detail, perspective drawing of each system. And for good measure, the manual even contains a section giving advice to secretaries on the typing and preparing of specifications. — Perlite Institute.

(Item No. 18)

NUCLEAR BLAST DESIGN: "Blast resistance can often be attained with little or no additional construction cost; radiation shielding may be designed to also function as part of the structure, effecting further economies." These points are brought out in a paper put in booklet form which is not intended to get into the more technical design but to bring out items that would be pertinent to or possibly overlooked by any engineer, planner or industrialist pioneering in blast design. The author, David L. Narver Jr., is a structural engineer who has designed buildings to be used at AEC operations.—Holmes & Narver, Inc.

(Item No. 19)

ACOUSTICS: A comprehensive and concise illustrated story of architectural acoustics and acoustical materials is being used by students as reference material but also is intended for distribution to those actively engaged in the architectural and sound conditioning fields. The subject matter includes proposed remedies for excessive noise, data on the installation and maintenance of materials and problems of auditoriums, theaters, radio studios, offices and building corridors. — Acoustical Materials Association.

(Item No. 20)

SLIDING GLASS DOORS: Both aluminum and steel framed sliding glass doors are featured in Arcadia's 16-page 1957 catalog prepared especially for architectural use. Special reference charts for all stock doors furnish complete details. — Arcadia Metal Products.

(Item No. 21)

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.

FEBRUARY 1957

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

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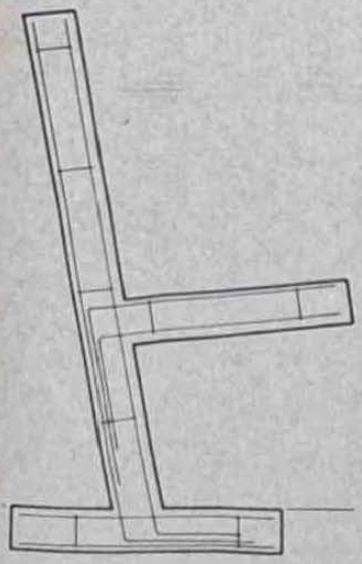
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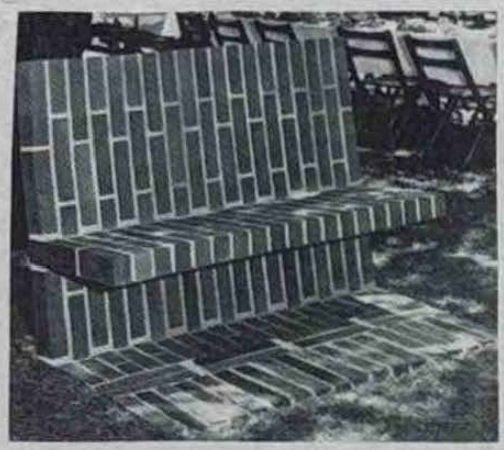
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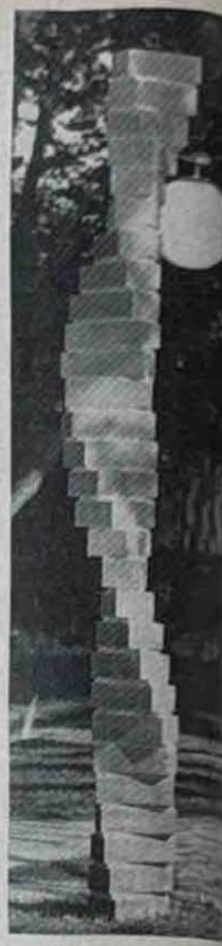
Products in action

A brick bench and lamp post from a manufacturer with imagination





A 4-ft.-wide bench was designed by Kraftile Co. of Niles, Calif., to support as much as 600 lb. on the front edge of the seat. It is built of modular size Kraftile Norman brick reinforced in the vertical joints with 2¼-in.-wide ladder reinforcing. Type A-2 mortar was used: one part cement, half part lime and 4½ parts sand.



This lamp post wired for electricity is so strong it would require at least six men to pull it down. Standing 8 ft. above the ground, it was constructed by San Francisco's Clay Brick and Tile Association of Kraftile standard 3⅝x 7⅝x2⅝ modular brick, reinforced with a post-tensioned ⅝-in., 155,-000-psi. steel bar. Mortar was a mixture of three parts cement to eight parts sand, mixed with very little water. Total tension on the steel rod is 30,000 lb., stretching it three-eighths of an inch.



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An industry-wide trade show featuring new materials . . . new methods . . . new equipment . . . and new applications from the plastics industry. Plan now to attend.

Please request tickets on your company letterhead, since there are no general public admissions.

Pacific Coast Plastics Exposition

March 18-21, 1957

Shrine Exposition Hall, Los Angeles, California

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TYPICAL COMPUTER ROOM has average illumination of 130 footcandles achieved with system of Sunbeam's open type recessed troffers installed in geometric patterns.

Integrated lighting system

An architecturally integrated lighting installation at Ramo-Wooldridge Corp. in Los Angeles has been engineered for maximum flexibility, utility and performance. The illumination was planned as a mobile system so that as partitions are moved to make new working areas, the lighting "moves" too—to perform just as efficiently in the new location.

More than 4,500 Sunbeam Visionaires have been installed in the several new buildings, designed by Eugene K. Choy, AIA. One has suspended ceilings with corrugated acoustical aluminum paneling. When partitions are moved, illumination can be directed where it is needed by simply replacing the fixtures where desired in the grid ceiling. Construction permits modular arrangements, geometric patterns and continuous row installations, all with equal ease.

In a typical computer room, part of which is shown here, an average illumination level of 130 footcandles was achieved with a system of Sunbeam's open type recessed 5600 series Visionaires installed in geometric patterns. The room, 65x29 ft., with a 12-ft. ceiling, contains seven rows of the two-light troffers running the length of the room with six 28-ft. rows crossing in a checkerboard fashion. Because the console boards must be read in semi-darkness, a special switching device has been installed to vary the lighting intensity.

The same two-lamp 5600 series troffer, chosen because of sturdy construction and ease of installation, has been used in drafting rooms in continuous rows. Still other areas have utilized the L5600 series equipped with metal louver diffusers.

Corridors are illuminated with shallow plastic- and louver-shielded L1280 series to a level which balances the transition from office to corridor. These units are readily removable to allow for changing floor plans in keeping with the buildings' built-in flexibility features.

The lighting operates on a 277-volt electrical system throughout the multibuilding plant, devoted to the development of systems in the field of guided missiles, fire control, etc.



Roger Sturtevant photo

WAFERWOOD WALL CABINETS designed by Henry Hill, AIA, for California interior. Tenex panels below and sliding doors above are 2 ft. wide; shelves are adjustable.

Textured waferwood panel

Tenex, Pack River's textured waferwood panel, is being used by architects and builders for walls, ceilings and cabinets. The 4x8-ft. ¼-in. thick panel has some unique finishing qualities, each color or finish giving it a different character or appearance.

Tenex differs from other manufactured interior panels in that no ground or defibrated wood is employed. The wood wafers extend through the thickness of the board, a strong panel with solid edges that require no special treatment, resulting in a pleasing three-dimensional appearance.

Builders report that Tenex has unusual structural stability.

Built-in telephone outlets are a must in today's homes



says ARTHUR K. EHRLICH, Arthur K. Ehrlich & Associates, Burbank, Calif. Builders, *Better Homes & Gardens* Idea Home for 1955 in Glendale, Calif. (pictured below)

"We wouldn't dream of building a home without concealed wiring and telephone outlets in the original plans. It's the kind of detail that sets the well-built home above the average. It just has to be there." Telephone outlets in rooms that are used most add much to the value of Ehrlich homes.

To successful builders like Mr. Ehrlich, who are setting living standards in the Pacific West, complete telephone planning is as basic as adequate electrical wiring. We are always ready to help you plan built-in telephone facilities. Just call us and ask for our *free* Architects and Builders Service.



Specify built-in telephone facilities —a sign of good planning

Pacific Telephone

PA&B Suppliers

• **Bethlehem Pacific Coast Steel Corp.** has promoted John G. White from assistant to district manager of sales in Seattle, succeeding Harold E. Gray who has retired.



WHITE

White will be in charge of all company products in Washington, northern Idaho, western Montana and Alaska. In making the announcement, S. S. Cort, vice president for sales, said: "With a big expansion program just revealed for the Seattle plant, which will increase its output of steel products by 70%, White's new assignment is especially important."

White began his career with Bethlehem in 1939.

Also retiring with Gray in December was H. Carroll Foxworth, Seattle senior salesman. The two men had contributed a combined service of 84 years to Bethlehem Pacific.

• **Worthington Corp.** has appointed E. Weston Hammond as manager of its Los Angeles district offices, replacing J. G. Murphy who has been named a special representative of the firm.

• **Olympic Stained Products Co.** of Seattle has named David M. Hughes to the newly created position of stain sales manager. He has been sales representative for Olympic since his graduation from the University of Washington in 1951.

• **Allmetal Screw Products Co., Inc.,** has announced details of its second annual steel awards totaling $1,500, to be presented for the best case histories describing the use of stainless steel fasteners as an ultimate cost reduction factor in product manufacturing. Deadline for all entries is July 1, 1957. Official entry blanks may be secured by writing: Awards Committee Secretary, Allmetal West Coast Division, 2978 Wilshire Blvd., Los Angeles 5, Calif.

TRADE SHOW EXHIBITORS MEMO

A 16-page booklet designed to assist trade show exhibitors has been prepared by Poirot Exhibitors Service, Inc., describing the scope of the firm's activities which include erecting displays, maintenance, dismantling and shipping or storing them. Copies may be obtained by writing Reader Service, Pacific Architect and Builder, 2418 Third Ave., Seattle 1, Wash.

• **W. P. Fuller & Co.** officials honored S. H. Kline, general manager of the firm's central district, at a San Francisco luncheon upon his 50th anniversary with the West Coast company.

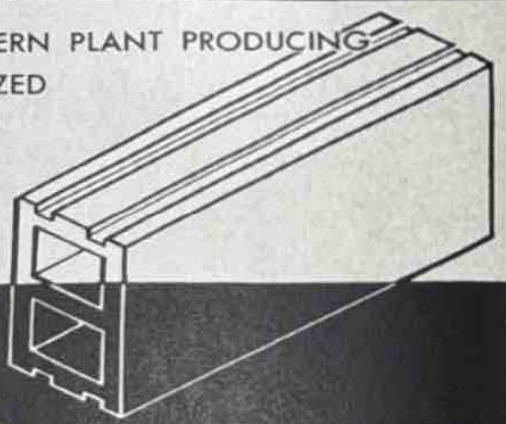
A. H. Brawner Jr., manager of Fuller's export sales division, is in the Orient for a month of business consultation, following the company's first year of operations there.

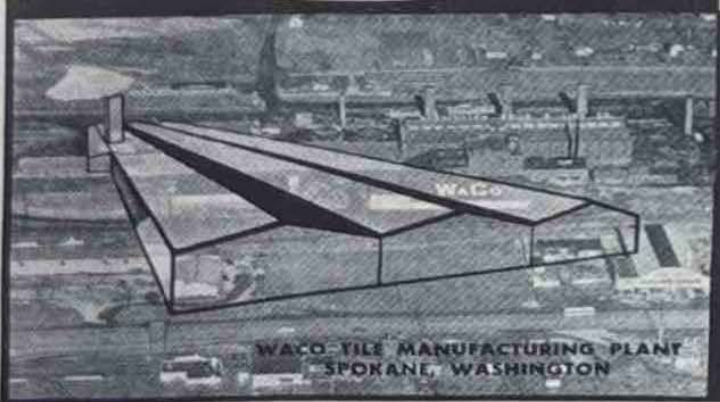
• **Graystone, Inc.,** Puget Sound building materials firm, has been acquired by Potlatch Yards, Inc., but does not involve any change in the corporate structure of Graystone. The firm manufactures and markets concrete products and allied materials in eight Washington plants; Potlatch Yards has been engaged in the distribution of building materials since 1905, with executive offices in Seattle and 4 branches in Washington and Idaho.

• **Owens-Corning Fiberglas Corp.** has announced several West Coast personnel changes. William H. Curtis Jr., Pacific Coast division sales man-

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ager, is now a company vice president and Pacific Coast division general manager. He succeeds Louis R. Kessler, vice president, who is being transferred to headquarters in Toledo.

Howard H. Keech, currently comptroller of the Pacific Coast division, has been named assistant treasurer and assistant secretary.

Maurice B. Quillen, sales manager of Owens-Corning's Fenco Division for the past year, now heads the company's Los Angeles branch and has been succeeded by Edward B. MacNab, Fenco senior sales representative.

• **Steel Building Products, Inc.,** of Seattle has been appointed distributor for Milcor Ribform manufactured by the architectural products division of Inland Steel Products Co. The distributing firm also furnishes fabricating and erecting services, reports president Frank Hodge.

• **Pryne & Co., Inc.,** of Pomona, Calif., has named E. F. Kelly, formerly executive vice president, as president, succeeding Ralph Pryne, founder and president of the company since its inception in 1923, who will remain active as chairman of the board. Phillip D. Pryne, has been elected vice president in addition to his present duties as treasurer.

• **General Controls Co.,** of Glendale, Calif., has been merged with Production Instrument Co. of Chicago, which will be operated as a separate division.

• **Lasater Co.** of Studio City, Calif., has been appointed manufacturer of Lo-"K" insulation in southern California by Lockport Mills, Inc.

• **Columbia Hardboard Co.,** with offices in Seattle, has begun production of shavings board, made entirely from

FOR LIGHTING SALESMEN

A new lighting training course "Modern Illumination, Fundamentals, Techniques, Applications" has been prepared by the Westinghouse lamp and lighting divisions. The 18-lesson course consists of audio-visual presentations using sound films and records.

Marshall Waterman, manager of commercial engineering of Westinghouse's lamp department, states that the company first made a course of this nature available shortly after World War II. It was nsed extensively by utilities, distributors, jobbers and electrical contractors. Numerous requests prompted a re-revised, improved course, he comments.



NEW OFFICERS of Sliding Glass Door and Window Institute, which headquarters in Los Angeles, are (l. to r.): William Watkins, honorary vice president; Murrell Spence, first vice president; Frank B. Miller, president; George Radford, second vice president; and Lauro Bourland, secretary. Charles Walker, treasurer, is not shown.





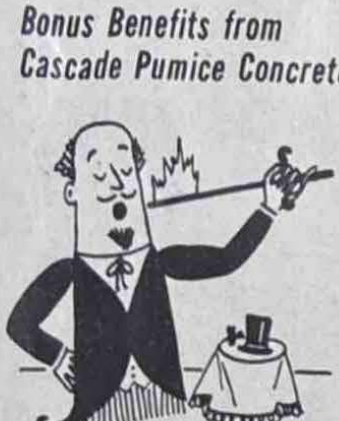
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cedar mill waste and marketed under the trade name of Cedawood, in its recently completed Everett plant. Don L. Johnson is sales manager.

• **Aluminum Company of America** has a new manager of its Northwest operations, Donald H. Tilson, succeeding C. S. Thayer whose retirement after a company career spanning more than 43 years became effective last December. Tilson, with Alcoa since 1920, will direct smelting and fabricating operations at Vancouver and Wenatchee, Wash.

• **Pomona Tile Manufacturing Co.** of Pomona, Calif., has appointed Dale Ranney to its Los Angeles sales staff in line with the company's program of opening or expanding regional sales offices "wherever the local market warrants it."

• **Woodall Industries** in a recent reorganization of its West Coast sales setup has named Ned Bardeen as sales manager for plants at San Francisco and El Monte, with headquarters at the former. Charles Francis is sales manager of the door division at El Monte.

• **Dura-Vent Corp.** of Redwood City, Calif., has elected Thomas D. Bromley as president. For the past 10 years he has been vice president in charge of sales of Peerless Manufacturing Corp of Louisville, which position he continues to hold.

• **B. F. Shearer Co.**, West Coast distributor of public seating equipment and school furniture, has named Roy A. Brobeck as manager of its Portland office.

• **Universal Form Clamp Co.** of Los Angeles has moved from 5855 S. Western Ave. to 13210 S. Figueroa, where a new plant provides three times as much space.

• **L. A. Young Spring and Wire Corp.** has entered into the manufacture and sale of aluminum honeycomb structures at its San Leandro, Calif., plant. President N. D. Ely reports that his firm has purchased machinery, tooling and complete assets for producing aluminum honeycombs from Flexo Manufacturing Co., Inc., of Los Angeles.

• **Metal Building Products Corp.** of North Hollywood, Calif., which has been established as a sales agency for eastern building products manufacturers, has named Richard O. Grinnel as district sales manager.

• **Day and Night Manufacturing Co.** of Monrovia, Calif., has promoted Frank R. Spratt to the post of assistant general sales manager and Craig Stirewalt to replace Spratt as California regional sales manager.

• **Pacific Tile and Porcelain Co.** Los Angeles has elected a sixth bo member, James W. Tetrault, pl manager since 1953 and with the fi since 1950.

• **Fuller Glass and Paint Co.** lost Spokane branch manager January when Walter H. Mills Jr., 43, d after a sudden illness. He had serv the company in its Idaho Falls a Salt Lake City branches.

• **Kawneer Co.** held the first annu dealer panel for its architectural pro ucts division in the company's hea quarters in Niles, Mich., January 11. Among those selected to atte was Fred S. Nobmann, glass manag of W. P. Fuller & Co., of Seattle.

• **Buensod-Stacey, Inc.**, has a nounced the first appointment sales representatives as part of a n tional network which will supply co sulting engineers, architects, and co tractors with its dual-duct air cond tioning equipment. West Coast repr sentatives include H. W. Baker C San Francisco; Cooling and Heati Engineers, Los Angeles; and Geor E. Mead Co., Seattle.

• **E. F. Hauserman Co.** has appointe Harold W. Noleen, formerly S Francisco branch manager, to a sim ilar post for the New York metropol tan area.

• **Utility Appliance Corp.** of Los An geles has named Leo Hungerford director of sales engineering for th firm's entire line of products.

• **Gladding, McBean & Co.** has appoint ed Carleton P. Adams as manager o advertising and public relations.

• **Unit Masonry Association** of Seattl has elected Donald E. Jordan, sale manager of Layrite Concrete Prod ucs, as president; C. L. Gerring, vic president; and E. J. Gill, relected secretary-treasurer.

• **Inland Steel Products Co.** has ap pointed Robert J. Morris, formerly with Harold E. Peterson, Inc., shee metal fabricators, as field enginee on its Los Angeles branch staff.

• **Fluor Products Co.**, of Whittier, Calif., a division of The Fluor Corp. Ltd., has formed a separate division to design, prefabricate and market a complete line of cooling towers for the air conditioning and refrigeration industry. Gordon M. Anderson, general manager of the new division, says that volume production of the first in a series of four basic models is now underway at the company's 155-acre mill in Santa Rosa, Calif.

• **Kaiser Engineers** of Oakland has named Robert J. Wolf as division manager.

PA&B Builders

• **Home Builders Association of Spokane** is urging passage of a Washington law requiring state licensing of contractors in one of three classifications: heavy construction, home and dwelling, and speciality. The law, as proposed by this group, would exempt persons who build their own houses, individuals working solely for wages and building material suppliers.

• **International Drywall Contractors Association** has been organized, with Sherwood M. Sitz of Los Angeles as executive director. Wayne Vaughan, who heads the West Los Angeles firm of Vaughan Movable Interior Walls, Inc., is the first president. Other officers from the West Coast are Melvin L. Scott of Seattle, vice president, and M. R. McColley of San Diego, treasurer.

• **Young Builders Council, Home Builders Institute** of southern California is offering a $500 annual scholarship to the most promising UCLA junior majoring in the construction field. In addition, the YBC educational committee has arranged with the Santa Monica Technical School to develop in its curriculum a construction course to take over where the union journeyman education stops.

Officers for 1957 are Carroll Brock, president; Robert Rikel, first vice president; Walter W. Kuesder Jr., second vice president; James Roberts, secretary; and Bill Guyant, treasurer.

• **Builders Exchange Cooperative** of Portland has elected Donald A. Robertson, secretary of Robertson, Hay & Wallace, as its president.



NEWLY ELECTED PRESIDENT Herbert A. Crocker (left) of Associated Home Builders, Inc.,—San Francisco and Marin—accepts gavel from outgoing president William Blackfield. Other officers are M. Douglass Couch, vice president; George McKeon, secretary; Rollin E. Meyer Jr., treasurer.

Aesthetic value of materials (cont'd from p. 32)

precedent for large ones.

During this period of blind groping, many of our works were carefully studied designs in good taste. But quoting Professor Alfred D. F. Hamlin's comment in his "History of Architecture," written in 1895 "they are like labored and scholarly verse in a foreign tongue, correct in form and language, but lacking the naturalness and charm of true and unfettered inspiration."

Toward the end of the 19th century, some American and European designers of spirit revolted against the commonplace form and historic style of that day. The Paris Exhibition of 1900 displayed in many remarkable buildings an amazing amount of originality and individualism of style.

Today we have divested ourselves of the feeling that a machine can be creative in an artistic sense. We now accept it as an effective producer of things that look machine-made rather than hand-made but still can be assembled into an aesthetically acceptable whole. Straight lines and rectang-

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ular forms can be done admirably, but curves and swirls should not be attempted.

The present-day architect is encouraging industry to make larger sheets of glass, truer surfaces of porcelainized sheet steel and to shop fabricate metal assemblies to the fullest possible extent. Today shop assembly is carried as far as prefabrication will permit so that on-the-site work with all of its improvisations and inefficiencies is held to a minimum. This marks the end of the period af transition and the beginning of fulfillment of the promise of good machine-made architecture. To reject this promise is but to ignore the repeated lessons of history.

There is no halt in the evolution of industrial processes. Our work-a-day world and our lengthened hours of leisure are geared to the maturing skills of American industry. Just as surely these skills, guided by the imagination and the sense of fitness of today's designers, are producing an architecture of vast intellectual brilliance.

One great departure—perhaps the most radical—in contemporary architecture is the complete separation of the structure from partitioning and from the exterior wall. Whether we employ a plastic structural form or the predominant grid frame, our walls are hung in curtain like manner between load-bearing elements. These curtain walls support no weight other than their own and they are designed to add only a minimum dead weight to the structure.

Architectural metals are ideal curtain wall materials. They afford great strength in comparatively lightweight sections, they can be prefabricated and they can be given many degrees of polish to contribute to the building a shining machine-made look. Our new style of architecture is gleaming rather than dull.

Metals and glass do not absorb moisture. Neither high nor low temperatures affect their hard surfaces. This same hardness precludes a design retrogression to an imitation of the handicrafts of the past.

Glass can be rolled into thin flat sheets of great length and breadth. It can be highly polished, colored or made heat-absorbent but it cannot be hand carved. If you want to carve it, you must use mechanically operated wheels or blasts of sand. Glass is a hard, brittle and inert building material.

Architectural metals, in their true industrial age applications, are too hard for the wood carvers' technique. They can be rolled or extruded into long pieces of varying sectional shapes and they can be cast into sculptured forms.

Sheet steel is admirably suited to porcelainizing: a thin surfacing of glass frit fused on to both sides. This happy union of metal and glass presents to the designer a colorful, long-lasting architectural material of great versatility.

Now if in retrospect we are sure that our social pattern and our new materials, brought to being in industry, are creating a new architecture, let us see how manufacturers and fabricators can contribute to the aesthetic excellence of this movement.

In the first instance, they must make sure that they understand and are sympathetic with the quality demands of the leaders in architectural design.

After they attain the required standard of quality, they must join with the architect in presenting their best products to the public in a convincing manner. It is my feeling that a competition fails in this purpose for it only reaches the student or young architect; it misses the consumer.

They must carry on continuous research and experimentation to insure freshness of design—design that is not only fresh but sound and econ ically competitive with other terials.

Unfortunately, it seems to metals manufacturers are disrega ing the architects' urgent cry purely aesthetic advancement. At moment I cannot recall one archi tural metal spandrel of real ar tectural significance. Aluminum ma ufacturers seem to have forgot the natural beauty of their mate and are exerting effort toward development of a coloring proce These products have all the prom found in the average cheap imi tion.

We must not become intrigued w our own cleverness. We must a higher if our new architecture i avoid decadence before it reach maturity.

It is necessary for us to perfect o materials and to develop cost-savi processes so as to contribute o share toward increasing the value the building dollar of today.

Riggers and fabricators must i vent techniques of installation order to improve the appearance assembled work. These methods mu be aimed at larger shop assembli so as to shorten the time requir for site erection.

Some building codes, still base upon the now obsolete bearing wa construction, actually operate again metal curtain walls. Where this unintentional, technical data must b so presented that permanent va ances may be granted lawfully.

And finally, may I repeat. Let you advertising convince the buying pub lic that the lightweight curtain wal is a part of practical American li of today and that it can be a thing of exquisite beauty. Without this, w may have buildings but we will hav no architecture. I hope that you wil abandon the slogan "Sell the me who write the specs" and sell th people who use the goods.

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No. 74 GR-UN

Construction News Bulletin

Vol. 63—No. 3 (PA&B) News Section of Pacific Architect and Builder February 16, 1957

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BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

SAFEWAY DISTRIBUTION CENTER— Clackamas, Ore.

Grading contract has been awarded to Frank Lyons & Co., 5200 N.E. Alberta St., Portland, for the 46-acre site for the Safeway distribution center just east of S.E. 82nd Ave., Portland, and south of the town of Clackamas. Bids on the construction of tilt-up concrete buildings totalling 541,650 sq. ft., along with streets and utilities (all under one contract) will be called about April by Bramwell Construction Co., division of Safeway Stores, Inc., 1208 S.E. 7th Ave., Portland. Plans underway by Max P. Willams and Robert B. Martin, architects, 1919 S.W. 19th Ave., Portland; utility plans by Carl Green & Associates, 510 Henry Bldg., Portland.

Buildings will include grocery warehouse, 460'x525', with 254,000 sq. ft.; meat warehouse, 265'x312', with 101,000 sq. ft.; perishable good warehouse, 305'x335', with 129,000 sq. ft.; 140'x150' frozen foods building with 35,000 sq. ft.; administration building, 40'x92', with 3,650 sq. ft.; truck repair facility, 75'x215', with 19,000 sq. ft. Development will also include railroad and spurs, truck receiving and shipping facilities, parking areas and utilities. The center will serve some 100 Safeway stores in Oregon and southwest Washington. The company also owns 54 adjoining acres, and eventually Safeway manufacturing plants, including bakery and creamery, will be moved from Portland to this site, making the total cost approximately $5,000,000, excluding equipment. WB 2-12. Previous report 1-17

TOURIST ACCOMMODATION EXPANSION— Crater Lake, Ore.

(Estimated cost $611,500)

Plans announced by National Park Service for expansion of overnight and dining accommodations at Crater Lake National Park, Klamath County, Ore., under Mission 66 of the park service. Work will be done by George Smith, concessioner who operates these facilities under contract with the park service, who will work with Thomas J. Williams, park superintendent, Federal Bldg., Medford. Plans include enlargement of the cafeteria, addition of 40 sleeping units with provision for 50 more if demand warrants them, and modernization of the lodge and cafeteria kitchens. Work will start this construction season and must be completed in 1966. Snow depth in the park is currently over 6' and June 15 has been set as tenttative date for the opening of the lodge. Some work may start before that date. ZZ 2-13

●GRADE SCHOOL— Culver, Ore.

Bids to be opened 8 p.m., February 21, by School District No. 4, Jefferson County, Martha Ross, clerk, Culver High School, Culver, Ore., for construction of a four-classroom, 32'x160', concrete block grade school building. Plans with John K. Smeed, architect, 8313 S.W. Barbur Blvd., Portland. $30 deposit. Bid guarantee 5%.

New classroom starter building to replace existing frame building; rectangular strip of four classrooms, toilets, health room, teachers' room and toilet, janitor's closet, storage and covered walk on three sides. Concrete slab floor with asphalt tile; glued laminated roof beams; wood structural deck; built-up roofing; roof insulation; acoustical tile ceilings; lightweight blocks painted both exterior and interior; enameled woodwork; built-ins; glass stopped in wood with metal ventilating sash; some metal doors and frames; steam unit ventilators from existing boiler in high school.

WB 2-8. Previous report 9-25

★BUILDING ALTERATIONS, MODIFICATIONS— Enterprise, Ore.

Award to Walt M. Young, Route 1, Box 116, Hermiston, $4,543, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for alterations and modifications at the U.S.A.R. Bldg., 105 N.W. 1st St., Enterprise.

SP 2-9. Previous report 1-31

SWIMMING POOL— Dallas, Ore.

(Estimated cost $250,000)

Preliminary study has been completed by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, for covered swimming pool for the City, Hollis S. Smith, mayor, Dallas, Ore. The steering committee for the pool will now consider means of financing the project. Pool would be located on east side of Dallas High School gymnasium in a building designed to match the high school. Plans include 42'x100' pool, with sun deck and glass walls on north and south sides. WB 2-1. Previous report 11-16

▲HIGH SCHOOL ADDITION— Gold Beach, Ore.

Bids received by Union High School District No. 1, Curry County, Harold Stokes, clerk, Gold Beach, for construction of a classroom addition to the high school. Plans by Freeman, Hayslip, Tuft & Hewlitt, architects, 2040 S.W. 3rd. Ave., Portland. Bids opened February 7. Following are basic bids plus alts. 2 and 3. LOW BIDS: C. W. Hill & Son, Box 682, Salem, $85,068; Wiley Co., Box 414, Ashland, $88,502; Murphy Construction Co., Route 2, Box 627, Roseburg, $88,800. WB 2-12. Previous report1-24

SCHOOL ADDITION— Hillsboro, Ore.

Bond election for $225,000 approved for Hillsboro School District No. 7, Hillsboro, for construction of eight-classroom wing at Brookwood School, 25730 S.W. Pearson Road; covered playshed at Peter Boscow School, 452 N. 3rd St.; school equipment and site for another school. WB 2-13

★INSULATING BOARD PLANT— Klamath Falls, Ore.

(Estimated cost $12,000,000)

Three additional subcontract awards have been made by Robert Swan, project manager, Box 527, Klamath Falls, on projects included in construction of the insulating board plant in Klamath County, 28 miles north of Klamath Falls where Highway 97 crosses the Williamson River, according to H. R. Stokes, resident engineer for the Johns-Manville Corp., 22 E. 40th St., New York City. General contractor for the project is the George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. Awards are as follows:

The Wand Corp., 380 W. Howard St., Pasadena, Calif., for applying 500,000 sq. ft. of Johns-Manville Corrugated Transite for siding and roof decking to the four main buildings of the plant. The superintendent for the corporation is expected to arrive in Klamath Falls about February 15 when the first shipment of Corrugated Transite will be delivered at the plant site from the Johns-Manville plant at Pittsburgh, Calif. After roof decking has been applied, a painting contract will be let covering painting of exposed portions of the 1,900 tons of structural steel which form the framework and beams for the first four buildings. After buildings are complete, a separate contract will be awarded to one of a list of contractors approved by the Johns-Manville Corp. for painting and decorating the interior of the buildings.

Subcontract award to C. B. Armpriest Co., 495 S. Church St., Salem, for build-up roof-

ing and roof insulation for the four main buildings at the plant. The four of the planned six buildings occupy 271,500 sq. ft. of ground area. Work will begin after the Wand Corporation has finished the roofing project mentioned above.

Subcontract award to Charles Hartley, 4479½ S. 6th St., Klamath Falls, for drilling two water wells at the site of the plant. Wells will be drilled close to the eastern line of the property, opposite the building area, and will produce 500 gal. water per minute. Later, a subcontract will be let for the laying of water mains and the water system for the plant.

Sub-bids have been invited from the approved list of contractors for miscellaneous metal work at the site, including steel inside stairways, skylights, window frames, and miscellaneous iron for interiors and to frame the loading dock.

ZZ 2-13. Previous report 1-19

● HIGH SCHOOL— Pendleton, Ore.
(Estimated cost $2,000,000)

Bids will be opened March 19 by Pendleton School District No. 16C, Wallace McCrae, superintendent, 515 S.W. 4th St., Pendleton, for construction of a new high school, to be located on the golf course at the site of the Pendleton Country Club, in Pendleton. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Completion expected by September, 1958.

The 30-room school will be constructed in six interrelated units on a modified campus plan and will have a 750-student capacity. One-story; reinforced concrete footings and foundations; 124,000 sq. ft.; slab on grade concrete masonry units, prefabricated curtain walls of glass and porcelain enamel; precast prestressed concrete beams, thin shell concrete barrels; concrete built-up roof, composition cover; concrete masonry partitions; concrete stairways between ground levels; painted interior and exterior wall finish, wood and metal trim; painted concrete masonry interior partitions; asphalt tile, ceramic tile (shower roms), quarry tile and stone (walls), terrazzo finish on stairs; acoustical tile ceilings on wood stripping; hollow metal exterior doors, wood slab or metal interior dors; special equipment includes 24'x110' mobile partitions in gymnasium, metal overhead doors in shop, folding wood partitions in cafeteria, flexible tack and chalk boards built as units; rigid board insulation in roof and walls; low pressure oil-fired steam heating system; unit ventilators, exhause fans; fluorescent and incandescent lighting.

SC 2-8. Previous report 1-16

BUILDING ADDITION— Portland, Ore.
(Estimated cost $750,000)

Construction will start thtis spring on a four-story, 38'x200' aluminum and glass addition to the Equitable Bldg., 421 S.W. 6th Ave., for the Equitable Savings and Loan Association, Ralph H. Cake, president, 421 S.W. 6th Ave. Plans underway by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland.

The addition will be on top of existing two-story portion of building and will be between Washington and Stark Sts. It will add 30,400 sq. ft., mostly office space, and will match existing structures with 95'x89', double-glass tinted windows and aluminum panels. Outside window panes are heat-resisting Solex glass. WB 2-13

★PHYSICAL EDUCATION BUILDING— Portland, Ore.

Award to Henry M. Mason Co., 2206 N.W. Thurman St., Portland, $89,818 (basic bid) by Order of the Jesuit Fathers, Father M. I. Wilhelm, S. J., supervisor of the Jesuit High School, 9000 S.W. Beaverton-Hillsdale Highway, for construction of a physical education building at the high school. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle. The basic bid is for the gymnasium shell. Alternates for the dressing room shell and for finishing both sections of the building will probably be added later as funds are available. WB 2-13. Previous report 1-26

▲GRADE SCHOOL— Portland, Ore.

Bids received by Gilbert School District No. 45, Multnomah County, Mrs. Bessie H. Weaver, clerk, Gilbert School, 12500 S.E. Ramona Ave., Portland, for two-story, reinforced concrete and frame grade school at S.E. 128th Ave. and Holgate St. Plans by Warren Weber, architect, 610 Fenton Bldg., Portland. BIDDERS: Sterner Construction Co., 13845 S.E. Rhine St., (Basic) $374,572, (Deduct stage) $10,470, (Deduct drain tile) $500; Weston Construction Co., 7415 N.E. Glisan St., $374,997, $10,903, $498 (Weston is low if both alternates exercised); Blanchard Construction Co., 2546 S.W. Vista Ave., $376,000; Gene Settergren, 1625 S.E. Woodward St., $381,343; Contractors, Inc., 1101 N.E. 21st Ave., $384,648; Norman Builders, 2805 S.W. 3rd Ave., $386,100; C. M. Corkum Co., 2630 S.W. 2nd Ave., $397,766; Nieman Construction Co., 2001 Main St., Vancouver, $404,722. Of Portland except as noted.

WB 2-13. Previous report 2-1

BANK ADDITION— Portland, Ore.
(Estimated cost $2,000,000)

Stanton, Boles, Maguire & Church, architects, 208 S.W. Stark St., Portland, have been retained by First National Bank of Portland, C. B. Stephenson, president, 404 S.W. 6th Ave., to plan a 4-story, 100'x150' addition to the existing bank headquarters at the above address. The site, at the northeast corner of S.W. 6th Ave. and Washington St., is occupied by the Lafayette Bldg. and the old Century Theater. It is expected that destruction of the old building will start before the end of 1957.

Design of the addition will be more modern but will match as nearly as possible the white marble exterior of the existing building; the addition will be integrated with the existing, and interior finish will be similar. A portion of the street floor will be used to expand banking facilities, and the rest will be rented to other businesses; upper three floors will furnish additional space for a remodeled and expanded trust department, and head office administrative departments. WB 2-13

■ CHURCH ADDITION— Portland, Ore.

Planholers announced for one-story, reinforced concrete addition to Temple Beth Israel, 1931 N.W. Flanders St., Portland. Bids to be opened 2 p. m., February 18, in office of Dougan & Helms, architects, 401 Royal Bldg., Portland. Select list of bidders.

PLANHOLDERS: Vince Raschio, 7231 S.E. Clay St.; Teller Construction Co., 845 N. Graham Ave.; Frank Ralph & Son, 2204 N.E. Alberta St.; Henry M. Mason Co., 2206 N.W. Thurman St.; H. A. Starr Concrete Construction Co., 2425 N Commercial Ave.; E. Carl Schiewe, 1024 N.E. Davis St.; E. E. Settergren, 3723 S.E. 21st Ave.; Beebe Construction Co., 2134 N. Flint Ave. Of Portland. WB 2-13. Previous report 2-1

BRIDLEMILE GRADE SCHOOL— Portland, Ore.
(Estimated cost $681,000)

Working drawings under way by Hollis Johnston and Koch, architects, 603 Concord Bldg., Portland, for construction of Bridlemile Grade School at S.W. 45th Ave. and S.W. Hamilton St. Bid call to the issued about May by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland. School will be used jointly by Portand Park Bureau of Parks and the school will have use of adjacent ball field and apparatus belonging to park bureau.

Frame construction with brick veneer exterior; steel bar joists supporting slightly pitched roof, except glued-laminated beams in gymnasium and cafetorium; exposed SCR brick in corridors; built-up roofing; aluminum sash; asphalt tile flooring; plaster wall finish; acoustical tile ceilings; mostly fluorescent lighting; unit venilators for heating and ventilating from oil-fired, hot water system. WB 2-5. Previous report 11-8

BUILDING REMODELING—Portland, Ore.
(Approximate cost $500,000)

Construction to start about March 1 on interior remodeling of 12-story Selling Bldg., S.W. 6th and Alder St., Portland. The building is managed by Norris, Beggs and Simpson, 711 S.W. Alder St. Plans by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., and J. Donald Kroeker & Associates, 4504 S.W. Corbett Ave. Elev... contract awarded to Otis Elevator Co., N.W. 10th Ave.

Work will include remodeling of corri... with new vinyl flooring, wall treatment, ... suspended acoustical ceilings; flush ... wood doors; fluorescent lighting with pla... diffusers; three fully automatic self-leve... elevators; new restrooms; new lounge ... remodelling of public space; new ... hardware throughout. WB...

STORAGE BUILDING, MOTOR SERVICE SHOP— Portland, O...

Preliminary plans under way by Ho... Johnston and Koch, architects, 603 Con... Bldg., Potrland, for two reinforced concr... buildings at Portland Air Base, for the O... gon Air National Guard. Bid call expec... about August by Oregon Military Depa... ment, 412 State Bldg., Salem.

Supply and armament storage build... 100'x200', includes office and ware... space, to handle supplies and airplane pa... tilt-up concrete construction; precast co... crete roof deck; steel columns and bea... Motor service shop, 4,600 sq. ft. will be u... for washing, painting, overhauling and ... changing for trucks; poured concrete co... struction. WB...

★COMMERCIAL BUILDING—Portland, Or...
(Approximate cost $250,000)

Construction underway by Teeples-Thurl... er Co., 8850 S.E. Otty St. on a reinforc... concrete, 36,000 sq. ft. building for Wo... Tractor Co., George J. Carr, president, 10... S.E. Main St. Plans by John Jensen, arch... tect, 2266 N.W. Lovejoy St. Construct... has progressed to the roof. SUB-CONTRAC... AWARDS—REINFORCING STEEL: Mer... Steel Co., 2555 N.W. Nicolai St. ROOFIN... Duraloid Roofing Co., 1107 S.W. 34th Av... OVERHEAD DOORS: Overhead Door Co. ... Portland, 1212 S.E. Powell Blvd. PLUMB... ING: D. & F. Plumbing Co., 4636 N. Alb... Ave. ELECTRICAL: Tice Electric Co., 2... S.E. Belmont St. HEATING, SHEET META... D. & B. Metal Works, 4905 S.E. Woodst... Blvd. All of Portland.

Site is at N.E. 82nd Ave. and Killingswo... St. L-shaped structure will provide 36... sq. ft. of inside space—9,000 for showroo... and offices, 11,000 for parts department, a... 16,000 for shop and service departme... paved parking areas for employes and cu... tomers and two sides of building; additio... 20,000 sq. ft. of paved area for outside equi... ment storage. Bow-string roof truss... built-up roofing; metal sash, except so... wood millwork; gas-fired, hot air heatin... wood overhead doors; sales and office spa... has asphalt tile flooring, sheet rock wa... finish and acoustical tile ceilings. WB...

WAREHOUSE-OFFICE— Portland, Or...
(Estimated cost $250,000)

Construction starting by Monson & Siver... general contractors, 2500 S.E. 25th Ave... Portland, on 50,000 sq. ft. tilt-up concre... warehouse and office building for Gener... Tire & Rubber Co., Akron O., in Gulf... Lake area in northwest Portland. Plans b... James C. Gardiner, architect, 3158 S.W. 6... Ave., Portland.

Structure includes 47,000 sq. ft. of war... house space and 3,000 sq. ft. of office spac... 10,000 sq. ft. of parking space. Tilt-up co... crete construction on concrete slab; glue... laminated roof beams; sprinkler system... gas-fired heating system; rail and truc... loading. Office portion has masonry co... struction with brick facing; aluminum win... dow wall treatment; exposed masonry in... terior; vinyl tile flooring, except tile in... toilets; acoustical treatment on ceilings. WB...

●■ BUILDING ADDITION—Portland, Or...

Bids to be opened 3 p.m., February ... in office of Dukehart & Kinne, architects, ... 2311 N.W. Irving St., Portland, for a two-... story, 34'x41', reinforced concrete addition ... to the Boys' & Girls' Aid Society Bldg. at ... N.W. 23rd Ave. and Glisan St. Select list ... of bidders.

PLANHOLDERS: Sterner Construction ... Co., 13845 S.E. Rhine St.; Howland Construc... tion Co., 2041 S.W. 58th Ave.; Howard Brew... ton, 1240 S.E. Gideon St.; Blanchard Con... struction Co., 2546 S.W. Vista Ave.; Beebe ...

Construction Co., 2134 N. Flint Ave. All of Portland.

Ground floor will contain classrooms, typing room and toilet facilities; offices on main floor. Reinforced concrete construction with frame interior; steel sash; built-up roofing; asphalt tile flooring; acoustical tile ceilings; wallboard on walls; extension of existing hot air heating system; grading and blacktop paving on 60'x100' area at west of building for off-street parking.

WB 2-12

★**DORMITORY, DINING HALL—** **Portland, Ore.**

Award to Contractors, Inc., 1101 N.E. 60th Ave., Portland, $464,071, by Lewis & Clark College, Dr. Morgan S. Odell, president, 0615 S.W. Palatine Hill Road, Portland, for construction of girls' dormitory addition and dining hall at the college. Plans by Stanton, Boles, Maguire & Church, architects, 208 S.W. Stark St., Portland.

SC-2-12. Previous report 2-5

EMPLOYEES ASSOCIATION HEADQUARTERS BUILDING— **Salem, Ore.**

(Estimated cost $35,000 to $90,000)

Investigation underway by Oregon State Employees Association, James Daniels, executive secretary, Public Services Bldg., Salem, for sites and methods of financing construction of a new headquarters building in Salem to replace the present headquarters building at 320 N. Church St. in Salem. The association has circulated another 4,000 notices among prospective members (or stockholders) for a corporation to finance the building. Officials of the building group, which is entirely separate from the Oregon State Employees Association, do not expect the construction to be completed for about two years. An architect will be retained soon.

CI 2-13. Previous report 10-23

SCHOOLS— **Salem, Ore.**

(Estimated cost $300,000)

James L. Payne, architect, 725 S. Commercial St., Salem, has been retained by Salem School District No. 24J, Charles Schmidt, superintendent, 1309 Ferry St., Salem, to prepare plans and specifications for a six-classroom addition to Liberty Elementary School at 3810 Liberty Road in Salem. The addition is to include a set of lavatories.

An architect will be retained February 14 by the school district to prepare plans and specifications for a four-classroom addition and multipurpose room at the Salem Heights Elementary School, 3495 Liberty Road, Salem. Completion for both additions scheduled in time for occupancy in September, 1957.

CI 2-7. Previous report 11-14

SHOPPING CENTER— **Salem, Ore.**

Construction will start this summer for a new shopping center to be located at the southwest corner of Liberty Road and Cunningham Lane in suburban (south) Salem, according to M. J. Raschko, real estate operator, 372 N. Winter St., Salem. Plans call for two concrete one-story buildings, each having 140' frontage on a 4½-acre site and facing Liberty Road. Project will include a large parking area. Long range plans call for additional shops in the same area.

CI 2-13. Previous report 12-26

★**WAREHOUSE, OFFICE BUILDING—** **Salem, Ore.**

Award to Cecil A. Lantz, 1053 S. Commercial, Salem, $94,914 (revised contract), by West Coast Beet Seed Co., 690 Ferry St., Salem, for construction of a warehouse and office building on Claxter Road at its intersection with the Southern Pacific railroad tracks in Salem. Plans by James L. Payne, architect, 725 S. Commercial, Salem.

CI 2-9. Previous report 2-8

●**BLIND SCHOOL BUILDINGS—** **Salem, Ore.**

(Estimated cost $403,000)

Bids to be opened 2 p.m., March 6, by Oregon State Board of Control, William C. Ryan, secretary, Room 124, Capitol Bldg., Salem, for four concrete and brick veneer buildings at the Oregon State School for the Blind, 700 S. Church St., Salem. Plans with Jacobberger, Stanton, Franks & Norman, architects, 512 McKay Bldg., 408 S.W. 3rd Ave., Portland. $50 deposit. Certified check or bid bond 10%.

Buildings are two-story administration unit, two-story dining hall and kitchen, one-story gymnasium and one-story infirmary. All have reinforced concrete frames with brick veneer exterior; aluminum sash; plaster interior finish; built-up roofing; asphalt tile flooring; copper flashings and metal work; some ceramic tile; addition to existing heating plant, which will supply heat to new buildings; stainless steel work, equipment and refrigeration in the kitchen are all included in contract.

WB 2-9. Previous report 11-16

INSURANCE OFFICE BUILDING— **Salem, Ore.**

(Estimated cost $50,000)

Construction will start soon for a new office building to be located at the northwest corner of Center and N. Cottage streets in Salem, for the Salem district office of the Metropolitan Life Insurance Co., San Francisco, Calif. The building will be financed by Joseph E. and Mabel DeWitt, who will lease the building to the insurance firm. The new one-story 4,000 sq. ft. structure will be L-shaped and will have 100' frontage on Center St. and 66' on Cottage St. Parking space for 10 automobiles is included.

SC 2-12

GRANDSTAND— **The Dalles, Ore.**

(Estimated cost $8,000 to $10,000)

Construction will start late this month for a grandstand at the Quinton Street ball park in The Dalles, the plans for which have been approved by Wasco County School District, The Dalles. Concrete block foundation; steel framework supporting structure; wooden seats with steel bracing; hot water heaters in dressing rooms electrically heated; hardboard ceilings; built-up roofing. Will contain two dressing rooms, showers, public restrooms, seating for 400 persons in two sections plus a row of box seats ranging along the front behind the screen.

SC 2-13

■**MAINTENANCE HEADQUARTERS BUILDING—** **Umatilla, Ore.**

Planholders announced for construction of a maintenance headquarters building at McNary Switchyard, Umatilla County, Ore.; Inv. No. 8278. Bids will be opened 2 p.m., February 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland.

Planholders: Merrell Steel Building Co., 2207 N.W. Front Ave., Portland; Armco Drainage & Metal Products Co., 2321 S.E. Gladstone St., Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave.; James G. Robertson, Route 1, Box 385A, Clackamas; Jensen-Rasmussen & Co., P. O. Box 89, Sunnyside, Wash.; Soule Steel Co., 2630 N.W. St. Helens Road, Portland; Joe E. Venne, 507 12th St., Sunnyside, Wash.; John M. King Co., 1601 Taylor Way, Tacoma; Raymond J. Britton, P. O. Box 667, Richland, Wash.; K. L. Clark, Route 2, Box 317, Hermiston; Carl Erickson, Ione, Wash.; Lewis Hopkins Co., 221 S. 3rd, Pasco; F. C. Wood Co., Hermiston.

WB 2-13. Previous report 2-2

WASHINGTON

PLASTICS INDUSTRY BUILDING— **Alderwood Manor, Wash.**

Plans announced by Cascades Plastics Co., Inc., for enlarging and remodeling the 7,000 sq. ft. building located on recently purchased property formerly known as Sunnyland, on the North Trunk Road in the north end of Alderwood Manor. The firm began moving machinery into the building during the week of February 4 and plans to have the production line in operation by February 15.

SC 2-9

ELEMENTARY SCHOOL— **Belfair, Wash.**

(Estimated cost $145,673)

Plans will be complete in April for construction of an elementary school in the Lakewood area between Belfair and Allyn, for Belfair School District No. 45, Robert K. Johnson, superintendent, Belfair. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. Completion by November, 1957.

One-story; mill type building; 11,242 sq. ft. area; frame walls; frame floors; timber girders, beams, columns; mill truss roof; frame partitions; concrete stairways; wood windows; vinyl tile flooring; steam heating system.

SP 2-5. Previous report 11-28

PORTLAND CEMENT PLANT— **Bellingham, Wash.**

(Estimated cost $1,500,000)

All contracts have been let and all machinery ordered by Olympic Portland Cement Co., Mogens Krabbe, superintendent, Marietta Road, Bellingham, for the expansion program for the company. Emil Selene & Sons, 210½ W. Chestnut, Bellingham, will place new piers and complete foundation work on a cost-plus basis; contract was awarded early in January and work began shortly thereafter. The contract for erection of the new chimney and for demolition of the old one has been let to Rust Engineering Co. of Pittsburgh, Penn., and work will start in March. The hoisting of the 1,800-ton cement kiln, being designed and engineered by F. L. Smith & Co. of New York will start in September and will be done by a Seattle firm, the name of which has not been released. Completion of the project is expected about March, 1958.

ET 2-13. Previous report 1-26

COLUMBIA SCHOOL— **Bellingham, Wash.**

Richard Stradling, architect, Herald Bldg., Bellingham, has been instructed by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, to proceed with working drawings for construction of a six-room addition to the Columbia school at 2508 Utter St. in Bellingham. Although no matching funds have been allocated yet by the state, preliminary planning has been approved.

ET 2-1. Previous report 12-20

BUS STORAGE-SHOP FACILITIES— **Bellingham, Wash.**

Richard Stradling, architect, Herald Bldg., Bellingham, has been instructed by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, to prepare a tentative cost estimate for the proposed school bus storage-shop facilities to be located at Meader and James streets in Bellingham. Plans are not underway as stated in PCD 12-26. The bus storage project has been considered the least important in the school building program.

ET 2-1. Previous report 12-26

●■**FIRE STATION—** **Blaine AFB, Wash.**

Bids will be opened 2 p.m., February 18, by U. S. Air Force, Purchasing & Contracting Office, Paine AFB, for construction of a 14'x30' metal fire station structure with concrete floor and heating system at Blaine AFB; Inv. No. 45-602-57-34. Specifications with above office. Bid bond 20%.

Planholders: Eiford Co., 218 Unity St., Bellingham; Emil Olson Co., 2305 South St., Bellingham; Lake Construction Co., 1801 35th St., Bellingham; Erickson & Weden, 1611 Northwest Road, Bellingham; Burfitt Construction Co., 1445 W. 56th St., Seattle; Lindbrook Construction Co., 11738 35th N.E., Seattle; D & A Construction Co., 1113 N. 100th, Seattle; Jack Fast, 22 Etruria St., Seattle; D & A Construction Co., 1113 N. 100th, Seattle; Jack Fast, 22 Etruria St., Seattle; Frank Damson, Route 2, Hillside Road, Everett; Goren Construction Co., 506 14th St., Bellingham; Morrison Cecotti, Box 388, Mt. Vernon.

HH 2-8

EPISCOPAL CHURCH— **Bremerton, Wash.**

Plans being considered by St. Paul's Episcopal Church, Rev. Glenn M. Sawdon, pastor, 511 Chester, Bremerton, for construction of a new church in Bremerton. A site for the building has not yet been selected but construction will start this year.

SC 2-6

HOTEL-MOTEL— **Colfax, Wash.**

Tentative plans under consideration for

construction of a new hotel-motel structure to replace the Colfax Hotel which was razed by fire early last October, according to Town & Country, a Colfax organization. Plans by William James of Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. It was originally planned by S. H. Butler, owner of the hotel, to construct a new two-story hotel on the site of the razed building but plans are now being handled by the Doric Co., hotel management and investment firm, Dexter Horton Bldg., Seattle, and Butler is responsible for the property only. Sketches call for a three-story building extending the full block from Main St. to Mill St. and bridging the alley in Colfax. Included are 50 guest rooms, banquet room seating 200, restaurant, lobby and other facilities.

MH 2-1. Previous report 11-14

● ELEMENTARY SCHOOL—Dishman, Wash.

Bids will be opened 2 p. m., February 27, in the office of the architects, by Orchard Park School District No. 143, Clarence O. Pence, superintendent, West Valley High School, Millwood, for construction of the new Dishman elementary school. Plans with George M. Rasque & Son, architects, 303 Washington Trust Bldg., Spokane. $25 deposit.

One-story; no basement; 309'x113', 27,312 sq. ft. area; masonry walls, brick with block topping; concrete slab floors; built-up roof with plastic skylights, sheathing; frame and block partitions; glued laminated beams; obscure and transparent glass, steel windows; stain, shellac, varnish interior wall finish; sheet metal exterior wall trim; plaster and paint partitions; linoleum, asphalt tile floor finish; plaster, ⅝" acoustical tile ceilings; Kalamein exterior, birch interior doors; rock wool inculation in ceilings; low pressure heating system, gas or oil fuel; ventilating system. Plans include teachers' rest rooms; clinic; showers; dressing room; state; lockers; offices; thirteen classrooms; janitor's room; dry storage room.

SC 2-13. Previous report 7-21 Millwood

GRANDSTAND— Edmonds, Wash.

Plans complete, except for site details which won't be available until school building is nearer completion, for construction of a 2,000-seat grandstand at the new high school now under construction at Holmes Corners in Edmonds. Plans by Waldron & Dietz, architects, 208 Columbia,s Seattle. Bids will be called in time to complete the grandstand simultaneously with the high school. Plans call for toilet facilities, ticket booths and lighting system for the football field.

HH 2-13

SCHOOL CONSTRUCTION— Edmonds, Wash.

(Estimated cost $3,500,000)

Plans announced by School District No. 15, Harold Silvernail, superintendent, Edmonds, for school construction between now and 1960. New construction will include three elementary schools, one combination junior-senior high school, and conversion of the existing Edmonds High and Mountlake Terrace Eementary schools to junior high schools.

HH 2-1

● CHURCH— Ellensburg, Wash.

(Estimated cost $242,700)

Bids will be opened 8 p. m., February 28, by Presbyterian Church, Don Jongeward, 404 N. Sprague, Ellensburg, for construction of the First Presbyterian Church in Ellensburg. Plans with Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. $25 deposit.

One-story; no basement; 17,000 sq. ft.; reinforced concrete footings and foundation; hollow masonry walls; concrete slab floors; glued laminated wood arches; flat glued laminated truss roof; masonry, frame partitions; wood and concrete stairways; wood and aluminum windows; masonry exterior, masonry, pywood and drywall interior wall finish; cedar and pine exterior, mahogany, Walnut and birch interior wall trim; exposed masonry, drywall and plywood partitions; vinyl asbestos tile flooring; drywall acoustical ceilings; solid mahogany exterior, solid cork mahogany, walnut and birch interior doors; blackboards and cork boards, kitchen equipment; infra type 6 insulation in walls and ceilings; radiant fired hot water heating system in floor; exhaust system.

SP 2-8. Previous report 1-26

SCHOOL CONSTRUCTION— Elma, Wash.

(Estimated cost $792,000)

Bond election held February 5 was successful, according to Elma School District No. 137, R. W. Brockmueller, superintendent, Grays Harbor County, Elma. The two propositions which were approved include a $315,000 bond issue and a special 10-mill levy. Funds will be used to finance construction of an addition to the Elma high school to provide a physical education plant, music and practice rooms, classrooms and facilities for industrial arts and vocational agriculture. Plans by Charles V. Reueger, architect, 225 S. Tacoma Ave., Tacoma. See PCD 11-28 for additional details concerning cost estimates.

SC 2-12. Previous report 1-24

● HEATING UNIT INSTALLATION— Everett, Wash.

Bids will be opened February 18 by City Council, City Hall, Everett, for installation of a gas burning heating unit in the city paint shop at Everett. Specifications with city clerk at above address.

SC 2-13

● HEATING UNIT CONVERSION— Everett, Wash.

Bids will be opened February 25 by City Council, City Hall, Everett, for conversion of the existing sawdust burning unit in the Riverside Fire Station to a fuel oil burning unit. Specifications with city clerk at above address.

SC 2-13

★JUNIOR COLLEGE— Everett, Wash.

Amount of award released by Everett School District No. 4, Auditorium Bldg., Everett, for the general contract involved in construction of the new Everett Junior College to be located at 8th and Wetmore streets in Everett. Plans by Harold W. Hall & Associates, architects, 402 Commerce Bldg., Everett. AWARD: George Teufel, White-Henry-Stuart Bldg., Seattle, $1,183,500 (base bid) plus $22,500 (alt. 1). Alt. 2 for $11,310 was not exercised. For mechanical and electrical contracts see PCD 2-8.

HH 2-9. Previous report 2-8

★JUNIOR COLLEGE— Everett, Wash.

Awards announced by Everett School District No. 4, Auditorium Bldg., Everett, for construction of the new Everett Junior College to be located at 8th and Wetmore streets in Everett. Plans by Harold W. Hall & Associates, architects, 402 Commerce Bldg., Everett. AWARDS — GENERAL: George Teufel, White-Henry-Stuart Bldg., Seattle. MECHANICAL: Callahan Plumbing & Heating Co., 3211 Broadway, Everett, $347,700. ELECTRICAL: Rodgers Electric Co., 2805 Hoyt, Everett, $215,576. Low bid received for the general contract was $1,183,500 (base bid), $22,500 (alt. 1), $11,310 (alt. 2).

HH 2-8. Previous report 1-16

★PARISH HALL ADDITION—Everett, Wash.

Award to Newland Construction Co., 3202 Hill, Everett, $98,000, by Trinity Episcopal Church, Rev. Gordon Lind, rector, 2309 Hoyt Ave., Everett, for construction of a parish hall addition to the church on the southeast corner of 23rd and Hoyt Ave. in Everett. Plans by Young, Richardson & Carlson, architects, 521 Central Bldg., Seattle. Bids opened December 4 and held under advisement.

HH 2-9. Previous report 11-30

RECREATION AND MOTEL CENTER— Everett, Wash.

(Estimated cost $250,000)

Construction will start soon by Pete Spadafore, general contractor, 607 Maulsby Lane, Everett, for the first portion of a new bowling center, 40-unit motel and restaurant project, to be located on a 2½-acre site on Highway 99 N. (Canada Way) at 10th St., in north Everett. First portion to be constructed will be a building housing a 16-lane bowling alley, pool and billiard room and day nursery, complete with foyer or lobby with wall-to-wall carpeting. The building will be 95'x175'. Parking space for 155 automobiles will be provided. Working drawings are now underway for the motel and restaurant.

HH

▲STAR LAKE SCHOOL— Federal Way, Wash.

Bids received by Federal Way School District No. 210, Kenneth C. Jones, superintendent, Federal Way, for construction of the Star Lake Elementary School to be located on 272nd South, about one mile east of Highway 99, Federal Way. Plans by Pearson & Richards, architects, 240 S. Tacoma Way, Tacoma. Bids opened February 7. Following are basic bids. GENERAL—LOW BID: C. E. Skinner, Box 426, Orting, $249,513. OTHER BIDDERS: Glacier Construction Co., 5536 Coniston Road, Seattle, $261,933; Ness Construction Co., 1125 W. 8th, Seattle, $273,066; E. F. Shuck, 535 Pontius Ave., Seattle, $273,212; Korsmo Bros., Inc., Lake Grove S.W., Tacoma, $274,404; Leon Chandler, Box 6, Bellevue, $275,567; Nelson Construction Co., 3504 N. Monroe, Tacoma, $286,043. MECHANICAL—LOW BID: Kaar Plumbing & Heating, 1301 Center, Tacoma, $90,000. OTHER BIDDERS: Howard Coleman Plumbing & Heating, 2145 S. K St., Tacoma, $93,561; Harold Jewell, 7010 N. 15th, Tacoma, $94,678; Boyker Plumbing & Heating, 2627 Eastlake Ave., Seattle, $102,[illegible]. ELECTRICAL—LOW BID: Keystone Electric, $34,554. OTHER BIDDERS: Glassy-Reed Electric, 221½ S. 38th, Tacoma, $36,[illegible]; Chapman Electric, 911 Walla Walla, Renton, $38,441; Carl Madsen, Box 1545, Tacoma, $39,557.

SP 2-9. Previous report 1-[illegible]

● CHAPEL LIGHTING— Fort Lewis, Wash.

Bids will be opened 1:45 p. m., February 25, by Department of the Army, Purchasing & Contracting Office, Fort Lewis, for replacement of lighting fixtures in naves of chapels Nos. 3-C-30 and C-E-48. Specifications with above office. Bid bond 20%.

SP

★DENTAL CLINIC— Kent, Wash.

Award to Calhoun Construction Co., [illegible] Prospect Ave., Kent, $12,234, by Dr. Charles G. Hodson, owner, State and Smith streets, Kent, for construction of a dental clinic at the corner of State and Ward streets, Kent. Plans by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle.

GW 2-9. Previous report [illegible]

SCHOOL ADDITION— Malaga, Wash.

(Estimated cost $160,000)

Bids will be called when state aid funds are ascertained, by School District No. [illegible] Chelan County, Malaga, for construction of an addition to the elementary school in Malaga. Plans by Alvin S. Erickson, architect, Central Bldg., Wenatchee. Bids on the project were rejected last August.

One-story and partial two-story addition; no basement; concrete footings and foundation; poured concrete walls; concrete slab floors; steel girders, beams, columns; [illegible] roof, steel joists; masonry and concrete block partitions; concrete stairways; steel windows; brick exterior, concrete block interior wall finish; wood trim; expose masonry partitions; asphalt tile flooring; acoustical ceilings; wood doors; portable blackboards, fire dors; tectum insulation in roof deck; electric heating system; [illegible] vents; volume heaters in multipurpose room.

SP 2-1. Previous report 8-10, [illegible]

● HIGH SCHOOL— Millwood, Wash.

Bids will be opened 2 p. m., March 4, by West Valley Union High School District No. 202, Clarence O. Pence, superintendent, Administrative Offices, Millwood, for construction of the 26-classroom high school in Millwood. Plans with George M. Rasque & Son, architects, 303 Washington Trust Bldg., Spokane. $25 deposit.

Two-story; no basement; 340'x80', 54,[illegible] sq. ft. area; reinforced concrete footings and foundation; solid masonry walls; floor to be concrete slab on grade and steel joists, steel girders; built-up roof, steel joists; masonry, frame and plaster partitions, steel studs; concrete stairways; aluminum windows; brick and aluminum exterior, plaster and paint interior wall finish; aluminum exterior, metal interior wall trim; gypsum

lath ⅜, plaster ½" partitions; ceramic tile, terrazzo, vinyl asbestos flooring; aluminum exterior, birch interior doors; modern folding doors, cork tackboards, green blackboards; rigid insulation on roof deck; low pressure steam heating system, oil or gas fuel; unit ventilation system.

SC 2-12. Previous report 7-27, 1956

SUNDAY SCHOOL ADDITION— Montesano, Wash.

The proposed construction of a 40'x120' Church of God Sunday school building to be located on property facing Church St. in Montesano is in the preliminary planning stage only and construction will not start for about three years, according to Rev. A. Blankenship, pastor.

SP 2-8. Previous report 1-18

▲CABINET INSTALLATION— Mukilteo, Wash.

Bids received by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction and installing kitchen cabinets for the two quarters buildings at Mukilteo Light Station; Inv. No. FS-1532. Bids opened February 11. Following are all basic bids. LOW BID: D. R. Hanson Cabinet Works, Lynnwood, $1,414. OTHER BIDDERS: W. W. Wells Millwork, 3202 McDougal, Everett, $1,760; Pioneer Cabinet Works, 3009 E. 130th, Seattle, $2,035; Jack Fast, 22 Etruria, Seattle, $2,136; American Cabinet Works, Inc., 4025 Leary Way, Seattle, $2,264.

SP 2-13. Previous report 2-5

HIGH SCHOOL—First Phase— Neah Bay, Wash.

Working drawings underway by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle, for construction of the first phase of a new high school building at Neah Bay. Bids will be called by Cape Flattery School District No. 401, Clallam County, Glen O. Willison, superintendent, Clallam Bay.

One-story; 6,200 sq. ft.; tilt-up concrete walls; concrete slab-on-grade floors; glued laminated beams, wood roof decking, built-up roofing; cement-asbestos interior partitions; plastic ceilings and skylights; wood sash; vinyl asbestos flooring; built-up cabinets; chalk and tack boards; oil fired hot water heating system with fin convectors. Project will consist of 3 classrooms, library, offices, storage and toilet facilities.

GW 2-1

●■ STORAGE SHED— Neah Bay, Wash.

Bids will be opened 1:30 p.m., February 18, by U.S. Air Force, Purchasing & Contracting Office, Paine AFB, for construction of a 46'x60' storage shed for motor pool at Neah Bay; Inv. No. 45-602-57-33. Specifications with above office. Bid bond 20%. The 10-stall vehicle shed will be enclosed on two ends with oenp sides and gravel floor.

Planholders: Lindbrook Construction Co., 11738 35th N.E., Seattle; Burfitt Construction Co., 1445 W. 56th St., Seattle; Robert X. Ayer, 1332 Broadway, Everett; Frank Damson, Route 2, Hillside Road, Everett; D & A Construction Co., 1113 N. 100th, Seattle; Jack Fast, 22 Etruria St., Seattle; John M. King Co., 1601 Taylor Way, Tacoma; B. Deane Matthews, Box 187, Edmonds; Wayne Construction Co., 3810 Stone Way, Seattle; DelGuzzi Bros., 1020 E. Front, Port Angeles; Hugh Coven, 704 Marine Drive, Port Angeles; F. H. Jarnagin, Port Fll, Port Angeles; Owens Bros., Railroad and Oak, Port Angeles.

HH 2-8

HOSPITAL— Newport, Wash.

(Estimated cost $300,000 to $350,000)

Bids will be opened about March 1 by Pend Oreille County Commissioners, Courthouse, Newport, for construction of a 24-bed hospital at the site of the existing hospital in Newport, for Pend Oreille County Hospital District No. 1, Newport. Plans by McClure & Adkison, architects, N. 108 Washington, Spokane.

One-story; 280'x300', 14,600 sq. ft.; full upper floor, partial lower floor, to be constructed on sloping site; fire resistant masonry walls; reinforced concrete floors; steel joists; metal deck roof; wood and tile interior partitions; brick and cement stucco exterior finish; aluminum sash; gravel surfacing on roof; aluminum sash; oil-fired hot water heating system.

PN 2-8. Previous report 12-14

●RANGER STATION, SHOP— Olympic National Park, Wash.

Bids will be opened 2 p.m., April 4, in the office of Superintendent, Olympic National Park, East Park Ave., Port Angeles, for construction of a ranger station at Kalaloch on Highway U.S. 101 near Beckers Lodge, and a garage-repair shop at Park Headquarters adjacent to Port Angeles; buildings are approximately 100 mi. apart in Olympic National Park; Proj. No. W106. Specifications with above office and with the Western Office, Division of Design and Construction, 1000 Geary St., San Francisco, Calif. Bid bond 20%. Completion time 150 calendar days.

The ranger station will be a three-bedroom residential type structure and the shop will contain an equipment repair area of three stalls and a grease rack, an equipment and parts room, toilet room, heater room and an office. Both buildings are to be frame with concrete slab-on-grade floors, pitched roofs and wood siding. Fuel for heating will be liquid petroleum for ranger station and fuel oil for repair shop. SP 2-12

★HANGAR LIGHTING—Paine AFB, Wash.

Award to Selo Electric, 1050 N. 38th, Seattle, $8,650, by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for modifications and repairing lighting in Bldg. 207 at the base; Inv. No. 45-602-57-27.

HH 2-9. Previous report 1-31

●■ COMPTROLLER BUILDING ADDITION— Paine AFB, Wash.

Bids will be opened 2:30 p.m., February 18, by U.S. Air Force, Purchasing & Contracting Office, Paine AFB, for construction of an addition to the Comptroller Building No. 307 at the base; Inv. No. 45-602-57-35. Specifications with above office. Bid bond 20%.

Frame structure; 1,420 sq. ft.; 200 PSF floor loading; latrines to accommodate 15 people; heating provided from central heating plant.

Planholders: L. H. Clawson, 717 E. Northlake Place, Seattle; Jack Fast, 22 Eturia St., Seattle; Palmer Shops, 538 N. 78th St., Seattle; B. Deane Matthews, Box 187, Edmonds; General Industries, Inc., 106 Main St., Edmonds; Roy E. Rudd, Box 835, Everett; Linton Construction Co., Box 187, Lynnwood; W. R. Wickstrom Construction Co., 9409 20th N.E., Seattle; Lindbrook Construction Co., 11738 35th Ave. N.E., Seattle; Dale M. Madden, 3010 E. 163rd, Seattle; H. Halvorson, E. 5218 Sharpe Ave., Yardley; Wetter Construction Co., 20717 Highway 99, Lynnwood; Sanford Wright, 302 Clark Bldg., Everett; Burfitt Supply, 1445 W. 56th St., Seattle; Odegard Construction Co., 3302 Hill St., Everett; Shaffer Construction Co., 3409 Everett, Box 804, Everett; Howard S. Wright, Box 3764, Seattle; Fanderlik-Locke, 420 1st Ave. W., Seattle; Frank Damson, Route 2, Hillside Road, Everett; Wayne Construction Co., 3810 Stone Way, Seattle; Ragen Co., Inc., 9827 47th S.W., Seattle; Goren Construction Co., 506 14th St., Bellingham; Pete Jaeger, 5744 Keystone Place, Seattle; Robert Ayer, 1332 Broadway, Everett.

HH 2-8

▲LABORATORY ADDITION— Pullman, Wash.

Bids received by Board of Regents, 303 Administration Bldg., Washington State College, Pullman, for construction of a 50'x56' west addition to the hydraulics laboratory at the college. Bids opened on February 8. LOW BID: E. O. Johnson Co., Box 1052, Spokane, $29,892; Vista Construction, Inc., S. 803 Park Road, Spokane, $31,769; Dunham Bros., Moscow, Idaho, $32,515; Warner & Brown, N. 2904 Madelia, Spokane, $32,711; Hanson & Parr, W. 315 Boone, Spokane, $33,160; C. & S. Builders, 508 Dexter, Pullman, $33,608; Commercial Builders, Box 302, Moscow, $34,500. Plans by Philip E. Keene, college architect.

MH 2-12. Previous report 2-6

CHURCH, RECTORY— Quincy, Wash.

Working drawings underway by Roger Gotteland & Associates, architects, 325 2nd and Cherry Bldg., Seattle, for construction of a Roman Catholic church and rectory at Quincy. Bids will be called by the Diocese of Yakima, Most Rev. Joseph P. Dougherty, bishop, Liberty Bldg., Yakima.

Three one-story buildings, church, rectory and classroom, with a total floor area of 6,000 sq. ft.; all connected by walks and corridors; concrete block and wood walls; concrete slab floors; built-up roofing on rectory and classroom area, cement-asbestos shingles on church; plaster interior walls and ceilings; exposed deck in church; some acoustical tile; oil fired hot water heating system. Buildings will be connected by walks and corridors.

GW 2-13. Previous report 1-10

■ CONVENT AND CHAPEL—Renton, Wash.

Additional planholders announced for the construction of St. Anthony Convent and Chapel at Whitworth St. and 4th Ave. in Renton. Bids will be opened 2 p.m., February 19, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. Certified check, cashier's check or bid bond 5%.

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Additional planholders: E. F. Shuck Construction Co., 535 Pontius, Seattle; Ness Construction Co., 1125 W. 53rd, Seattle; Hackmann Construction Co., 11015 116th S.E., Renton. GW 2-8 Previous report 2-2

★MOVE, CONVERT DORMITORY BUILDINGS— Richland, Wash.

Award to Patton & Hill, 612 W. Albany Ave., Kennewick, $75,982 (basic bid plus alternate), by Atomic Energy Commission, Box 550, Richland, for moving two dormitory buildings from Richland to a Hanford production area where they will be converted into office structures.
PD 2-13. Previous report 2-6

ROXHILL SCHOOL— Seattle, Wash.

Working drawings underway by John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle, for construction of an 18-classroom, gymnasium and auditorium building at Roxhill Elementary School, 28th Ave. S.W. and W. Roxbury, Seattle. Bids will be called in March by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle.

One-story; 42,000 sq. ft.; wood frame classroom wing with insulated panel exterior walls, tile-up concrete gymnasium and auditorium walls; built-up roofing; concrete floors and foundations; interior walls plaster and plasterboard; acoustical ceilings; asphalt tile flooring; fir millwork; maple gymnasium floor and stage. GW 2-5

▲SHOP BUILDING— Seattle, Wash.

Bids received by Port of Seattle; H. C. Callander, secretary, 406 Bell St. Terminal, Pier 66, Seattle, for construction of a one-story shop building, I-8, Salmon Bay Terminal, Seattle. LOW BID: R. A. Sperline Construction Co., 23004 107th Place S.W., Edmonds, $46,825. OTHER BIDS: Burfitt Construction Co., 1445 W. 56th, $48,900; Glass & Horstman (Noble W. White) Pier 65, $50,470; Jack Gillespie, 803 E. 73rd, $51,325; Strand, Inc., 1801 N. 34th, $52,152; United Construction Co., 3627 Findlay, $54,152; Don Williams & Co., 314 Fairview Ave. N., $54,227; Vaux Construction Co., 7th and Market, Kirkland, $54,263; Northern State Construction Co., 3302 Elmore, $55,155; Dale M. Madden, 3010 E. 163rd, $56,515; Ballard Contractors, Inc., 4601 6th Ave. N.W., $57,920. All of Seattle unless otherwise stated. Bids opened February 7.
GW 2-8. Previous report 1-29

★FIRE DOORS— Seattle, Wash.

Award to Pioneer Sand and Gravel Co., 901 Fairview Ave. N., Seattle, $654, by King County Commissioners, W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing and installing two pairs and one single self closing fire doors at King County Hospital, 325 9th Ave., Seattle. Bids were opened and held under advisement December 20.
GW 2-9. Previous report 12-14

★HOSPITAL ADDITION— Seattle, Wash.

Award to James I. Barnes Construction Co., 208 Central Bldg., Seattle, $2,461,868, by Missionary Sisters of Sacred Heart, in the office of John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle, for construction of a hospital addition consisting of a seven-story main wing and a three-story wing facing Terry Ave., with a covered concourse for loading of patients. The total contract includes general construction, mechanical, electrical, metal casework, electric and hydraulic elevators and dumbwaiters, kitchen equipment and darkroom equipment. GW 2-9. Previous report 1-22

■ FERRY TERMINAL ALTERATIONS— Seattle, Wash.

Planholders announced for the construction of a new mezzanine area adjacent to the Dock Superintendent's office at Pier 52, Seattle. Bids will be opened 10 a. m., February 21, by Washington State Highway Commission, W. A. Bugge, director, Olympia, for Washington State Toll Bridge Authority, at Washington State Ferries office, J. McDowell, manager, Pier 52, Seattle. Plans with ferries office, above address. Certified check, cashier's check or bid bond 5%.

Planholders: Roxbury Homes, Inc., 226 109th S.E., Bellevue; Dale M. Madden, 3010 E. 163rd, Seattle; Ballard Contractors, Inc., 4601 6th Ave. N.W., Seattle; General Construction Co., 3840 Iowa, Seattle.
GW 2-13. Previous report 2-7

SHOPPING CENTER— Seattle, Wash.

Sub-bids will be opened later this week by Arnold R. Wisbeck, architect, 1560 Olive Way, Seattle, for Northwest Supermarkets, Inc., owner-builder, in connection with the construction of a shopping center at 17847 1st Ave. S., near Normandy Park Road, Seattle. The sub-bids were received in the architect's office February 8.
GW 2-13. Previous report 1-25

■ PRESBYTERIAN CHURCH ADDITION— Seattle, Wash.

Planholders announced for construction of a one-story and basement wood frame Sunday school and fellowship hall addition with cedar siding and brick veneer exterior walls. Bids will be opened 2 p. m., February 26, by Wedgewood Presbyterian Church, in the office of John Graham & Co., architects, 1426 5th Ave. Bldg., Seattle. Plans with architect. Select list of bidders.

Planholders: Baugh Construction Co., 922 Poplar; M. J. Bobin Construction Co., 6552 22nd Ave. N.W.; A. W. Brown & Assocites, 2nd and Cherry Bldg.; Jack Fast, 22 Etruria; Jack Gillespie, 803 E. 73rd; Veale Construction Co., 2nd and Cherry Bldg.; Questad Construction Co., 2858 30th Ave. W. All of Seattle. GW 2-13. Previous report 2-5

★PLYWOOD— Seattle, Wash.

Sub-contract award to Plywood Supply, Kenmore, for supplying 700,000 sq. ft. of plywood to be used on the Capehart Family Housing projects in the Seattle area. The order amounts to about 20 carloads. SC 2-9

▲ELEMENTARY SCHOOL ADDITION— Seattle, Wash.

Bids received by Highline School District No. 401, King County, Carl Laudenbach, business manager, Administration Bldg., 253 S. 152nd, Seattle, for construction of a one-story, reinforced concrete, seven-classroom and multipurpose addition to the existing Cedarhurst elementary school, 611 S. 123rd, Seattle. Plans by Steinhart, Theriault & Anderson, architects, Eastlake and East Galer, Seattle. Following are all basic bids. GENERAL—LOW BID: O & W Builders, 12215 8th Ave. S., $143,960. OTHER BIDS: Burien Construction Co., 4126 S.W. 106th, $148,300; Brady Construction Co., 707 Spokane, $148,300; Herbert U. Taylor, 11239 Arroya Beach Place S.W., $161,900. MECHANICAL—LOW BID: L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., $40,656. OTHER BIDS: George H. Lucken, 922 Leary Way, $41,850; Ashwell-Twist, 967 Thomas, $42,693; Boyker Plumbing and Heating Co., 2627 Eastlake, $43,430; Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue, $43,900; Dolman Plumbing and Heating Co., 11751 15th Ave. N.E., $46,821. ELECTRICAL—LOW BID: Lindberg Electric Co., 4600 Leary Way, $13,365. OTHER BIDS: Yansen Electric Co., 421 S.W. 152nd, $13,759; Hooper Electric Co., 215 Marion, $14,050; Lloyd Larson Electric Co., 2306 4th Ave., $15,761. All of Seattle unless otherwise stated. Bids opened February 7. The low bidders will be recommended for award at the school board meeting February 13.
GW 2-9. Previous report 2-5

● FILING CABINETS— Seattle, Wash.

Bids will be opened 9:30 a. m., February 18, by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing record housings for the county auditor's and treasurer's offices. Specifications, which may be obtained from the purchasing department, 606 County-City Bldg., call for six LeFebure housing units, 60 trays for the Model E LeFebure, two No. 8327 LeFebure housing units for omit sheets. Certified check or bid bond 5%. DM 2-9

■ OFFICE, STORAGE AREA ALTERATIONS— Seattle, Wash.

Planholders announced for the alterations and additions to the existing office and storage area on the 2nd floor of Building No. U. S. Naval Supply Depot, Seattle. No. 6578/56. Project involves carpe flooring, electrical installation, heating paving. Bids will be opened 2 p. m., F ary 26, by 13th Naval District, Public W Office, room 100, Building 232, U. S. N Station, Seattle.

Planholders: Viking Automatic Spri Co., 1120 8th Ave. S.; Donald W. Close 2921 13th Ave. S.W.; C. F. Massart Plum and Heating Co., 4401 Wallingford; Ca Prescott, 3516 Airport Way; Dale M. Mad 3010 E. 163rd; Wayne Construction Co., Stone Way; Fred Jones, 4106 9th Ave. Northwest Engineering Co., 616 6th Ave Rushlight Automatic Sprinkler Co., Market St.; Salmon Bay Electric Co., Ballard. All of Seattle.
GW 2-9. Previous repor

★SPAR MILL FACILITY— Seattle, W

Award to Sound Construction and E neering Co., 1300 Aloha, Seattle, by Bo Airplane Co., 7752 E. Marginal Way, Se for alterations to an existing building Diagonal Ave. and E. Marginal Way, Sea to provide spar mill facility. Plans by H mon, Pray & Detrich, architects and en neers, 719 Lloyd Bldg., Seattle. No figu are beng released at this time, negotiati are still underway, but the original bid s mitted by Sound Construction and En neering Co., was for $2,355,346.
GW 2-9. Previous report

▲SUNSET ELEMENTARY SCHOOL— Seattle, Wa

Bids received by Shoreline School Dist No. 412, King County, Myron Ernst, superintendent, Administration Bldg., E. 158th a 20th Ave. N.E., Seattle, for construction one-story, 28,750 sq. ft. wood and steel fr set elementary school at W. 178th and 1 Ave. N.W., Seattle. Plans by Young, Ri ardson & Carleton, architects, 521 Cent Bldg., Seattle. Following are all basic bi GENERAL—LOW BID: Puget Construct Co., 1811 Bush Place, $110,338. OTHER BID Baugh Construction Co., 922 Poplar Pla $113,251; Roxbury Homes, Inc., 616 Merr $212,340; Carl G. Anderson, 12362 35th A N.E., $121,500; Hedeen Construction Co., 1 N. 143rd, $128,500; Clair E. Prescott, 3516 A port Way, $136,000. MECHANICAL—LO BID: Boyker Plumbing and Heating C 2627 Eastlake, $35,548. OTHER BIDS: W Botting, 5625 University Way, $36,900; L. Massart Plumbing and Heating Co., 4501 Ave. N.W., $37,690; George H. Luck Plumbing and Heating Co., 922 Leary Wa $38,070; Percy Thorne Plumbing Co., 7 Greenwood, $38,950; W. E. Beggs, Inc., 9th Ave. N., $47,771. ELECTRICAL—LO BID: Industrial Electric Co., 1828 Yale Av $10,500. OTHER BIDS: Maier Electric C 6718½ Highway 99, Everett, $10,555; Lin berg Electric Co., 4600 Leary Way, $11,0 Aall Electric Co., 2715 Blakely, $11,915; Do ald W. Close Co., 2921 13th Ave. S.W., $12,3 Lloyd Larson Electric Co., 2306 4th Ave $12,362; Hooper Electric Co., 215 Marion $13,324. All of Seattle unless otherwise stated. Bids opened February 7.
GW 2-9. Previous report

● SALMON CREEK ELEMENTARY SCHOOL— Seattle, Wa

Bids will be opened 8 p. m., March 1 by Highline School District No. 401, Kin County, Carl Laudenbach, business manage Administration Bldg., 253 S. 152nd, Seattl for construction of two four-room cluste type buildings and one multipurpose build ing connected by covered walkways to th existing Salmon Creek Elementary Schoo 614 S.W. 120th, Seattle. The cluster typ buildings will be connected by a playfield Plans with Steinhart, Theriault and Ande son, architects, Eastlake and E. Galer, Se attle. $25 deposit on general, $15 each o mechanical and electrical plans. Certified check, cashier's check or bid bond 5% Mechanical engineers, May & Triol; electri cal engineer, Beverly Travis, all of Medica Arts Bldg., Seattle.

The three structures will be one-story an will have a total area of 19,000 sq. ft.; frame walls with brick veneer exteriors; steel columns, glued laminated beams; t&g roof decking, built-up roofs; concrete slab floors

hardboard on ⅝" plasterboard interior walls and partitions; asbestos vinyl flooring; acoustical ceilings; aluminum sash; wood doors; wood built-in cabinets and wardrobes; chalk and tack boards; electric heating system. GW 2-12. Previous report 1-22

● HEATING PLANT— Shelton, Wash.

Bids will be opened 2 p. m., February 25, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for furnishing and installing a heating plant in Shelton headquarters of the Division of Forestry. Plans with purchasing department. DC 2-8

● PRESBYTERIAN CHURCH ADDITION— Spokane, Wash.

Bids will be opened 4 p. m., March 1, by Lidgerwood Presbyterian Church, Rev. Raymond Blackstone, pastor, N. 4449 Nevada, Spokane, for construction of a Sunday school classroom addition to the church. Plans with Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. $25 deposit.

One-story; hollow masonry walls; concrete slab on grade; radiant hot water heating system. SP 2-8. Previous report 1-29

OFFICE BUILDING— Spokane, Wash.
(Estimated cost $150,000)

Construction underway by H. Halvorson, Inc., Box 6, Yardley, for an office building at Post St. and Boone Ave. in Spokane, to be leased to Spokane Natural Gas Co. of Spokane, by M M M, Inc., E. D. McCarthy, president, Spokane. Plans by E. D. McCarthy & Associates, architects, 1017 W. Riverside Ave., Spokane. Bids were opened for this project on September 20, 1956, by Spokane Natural Gas Co. and subsequently rejected as too high. Rather than readvertise bids, the owner sold the land and let M M M, Inc., construct the building for lease to the gas company.
PN 2-12. Previous report 9-28

ST. PETER'S CATHOLIC PARISH— Spokane, Wash.

Campaign underway by St. Peter's Catholic parish, Rev. Armand LaVerdiere, pastor, Spokane, to raise $100,000 for initial construction of a new church on property bounded by 18th and 20th, Thor and Freya streets in Spokane. Plans by Carroll Martell of Culler, Gale, Martell & Norris, architects, Realty Bldg., Spokane. The parish is only six months old and has been holding services in Lincoln Heights Community Center in Spokane. Plans call for an initial unit of four school classrooms and a large hall which will be used temporarily for masses. The parish may be reached c/o Catholic Diocese of Spokane, S. 317 Howard St., Spokane. SC 2-5

★ IRRIGATION DISTRICT OFFICE BUILDING— Sunnyside, Wash.

Awards announced by Roza Irrgation District, Rose Murray, secretary, Airport Ranch, Sunnyside, for construction of a 48'x72' irrigation district office building at 13th and Blain avenues in Sunnyside. Plans by Don Gochnour, architect, Miller Bldg., Yakima. AWARDS — GENERAL: Al Kokenge, 4820 Avalanche Way, Yakima, $60,047. PLUMBING: Valley Plumbing & Heating Co., 609 W. Yakima Ave., Yakima, $3,232. ELECTRICAL: Smith Electric, Union Gap, $9,260. HEATING, AIR CONDITIONING: Shelby Sheet Metal, Grandview, $3,531.
IG 2-9. Previous report 1-29

★ BARRACKS— Swift Damsite, Wash.

Award to Robert L. Kellogg, Longview, $38,000, by Pacific Power & Light Co., Paul B. McKee, president, Public Service Bldg., Portland, for construction of 42-man barracks at the Swift Hydroelectric Project, Lewis River, Skamania County, Wash. Barracks for 230 men have been completed.
WB 2-8

EDUCATIONAL BUILDING—Tacoma, Wash.

Fund-raising campaign underway by Sixth Avenue Baptist Church, Rev. Victor A. McKee, pastor, 2520 6th Ave., Tacoma, for $75,000 to finance construction of a new educational building for the church. Plans will be designed by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. The structure will replace the present two wooden structures on Fife St. The two-story modern building would provide department assembly rooms, recreational space, new church offices and a chapel. The entire project is expected to be financed over a three-year period. SC 2-5

BUILDING EXPANSION— Tacoma, Wash.

The former Johnson Paint Store at 1141-43 Broadway in Tacoma has been purchased by J. S. Baker Investment Co., Washington Bldg., Tacoma, and will be remodeled and enlarged for the expansion of the adjacent Sears Building in Tacoma. The building will be enlarged with the addition of an upper story and the installation of a parking area on the roof. Work will start about April.
SC 2-13

★ CAMP DUMP BUILDING, BOX CAR UNLOADER— Tacoma, Wash.

Award to Bona Fide Builders, Inc., 2430 E. 11th St., Tacoma, $98,900, by Port of Tacoma Commission, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for construction of a car dump building and for installation of a pit-type box car unloader for the Port of Tacoma grain elevator located on the Port of Tacoma Terminal property.
SP 2-13. Previous report 2-5

★ INTERIOR REPAINTING—Tacoma, Wash.

Award to Earl Painting Co., 122 Court D, Tacoma, $1,072, by Department of Army, purchasing and contracting office, Fort Lewis, for interior painting of rooms and hallways in Building No. 2573, Fort Lewis, Wash.; AVI-45-106-57-111.
GW 2-8. Previous report 1-23

■ HOLY CROSS CHURCH— Tacoma, Wash.

Planholders announced for construction of the Holy Cross Church at N. 44th and Shirley streets in Tacoma. Bids will be opened 3 p. m., February 19, by Catholic



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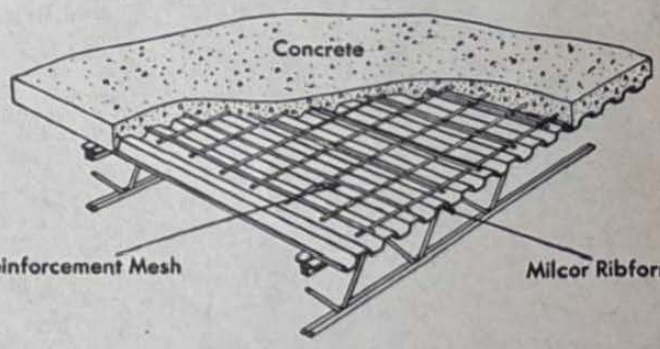
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Archdiocese of Seattle, 407 Terry St., Seattle. Plans with Jensen & Mills, architects, 308 S. Tacoma Ave., Tacoma.

Planholders: E. Goettling & Son, 2921 J St.; Ostruske-Murphy, 1515 Center; G. Kirkebo, 1410 Mt. View; Anderson Construction Co., 115 S. 9th; Strom Construction Co., 2141 S. Fawcett; Purvis Construction Co., 801 Portacoma Road; Jardeen Bros., 1240 S. Sprague; Claude C. Purvis, 5936 S. Sheridan; Warter Construction Co., 7829 Pacific; Quality Builders, 3720 Center; Concrete Construction, 2015 Center; Industrial Engineers, 711 Middle Waterway; Korsmo Bros., 5944 Lake Grove S.W.; Levage Construction Co., Box 655, Parkland. All of Tacoma unless noted. SC 2-12. Previous report 2-6

CIVIC CENTER— Walla Walla, Wash.

The building fund campaign for the proposed Walla Walla civic center is underway with a $1,000 pledge from the Walla Walla Altrusa, a woman's club. SC 2-12

■ **HIGH SCHOOL— Washougal, Wash.**

Additional planholders announced for construction of one-story (three levels) frame high school for 600 students at Washougal. Bids to be opened 8 p. m., February 21, by School District No. 112, Clark County, Teresa White, clerk, Administration Office, Washougal, Wash. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit.

Additional planholders—GENERAL: H. G. Carl Co., P. O. Box 387, Salem; L. E. Raley, 5709 Evergreen Highway, Vancouver; Juhr & Sons, 1339 S.E. Gideon St.; Nieman Construction Co., 20th and Main St., Vancouver. MECHANICAL: Rowland Plumbing & Heating Co., 929 N. Lombard St.; P. S. Lord Mechanical Contractor, 4517 S.E. Milwaukie Ave.; Wahl Plumbing & Heating Co., 515 W. 11th St., Vancouver; Vengelen & Vincent, 2400 E. Burnside St. ELECTRICAL: Tice Electric Co., 2139 S.E. Belmont St.; C. L. Hire, P. O. Box 174, The Dalles; Trowbridge Electric Co., 622 S.E. Jackson St., Roseburg; Clark Electric, 1734 E. Burnside St. Of Portland except as noted.

WB 2-8. Previous report 1-31

CHURCH— Yakima, Wash.

Durham, Anderson & Freed, architects, 1100 Denny, Seattle, have been retained by First Christian Church, Rev. Orval Peterson, N. 3rd and B streets, Yakima, to prepare plans and specifications, which are now underway, for construction of a branch church at 44th and Englewood avenues in Yakima. IG 2-13. Previous report 2-17, 1956

SHOP, GARAGE BUILDINGS— Yakima, Wash.
(Estimated cost $350,000)

Preliminary drawings underway for construction of three units, consisting of a maintenance shop building, a truck garage building and a bridge maintenance building, for the Yakima County Highway Department. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. UNIT 1: Maintenance shop building—80'x140', 11,200 sq. ft.; reinforced concrete structure; filler walls; flat roof; wood overhead doors; steel sash; exposed masonry partitions; wood and block interior walls; ceilings partially concrete; will include steam cleaning room, storage and parts area, washroom facilities and there wil be a 10-ton crane in the shop area. UNIT 2: Truck garage—Prefabricated steel rigid frame; gravel floors; one side of building open; 32'x290'. UNIT 3: Bridge maintenance shop—Prefabricated steel rigid frame with concrete floors. All buildings will be bid at one time.

IG 2-7. Previous report 12-1

YMCA BUILDING— Yakima, Wash.

Original bids rejected and will be readvertised in June by Young Men's Christian Association, S. 4th St., Yakima, for construction of a new YMCA building to be located on the corner of N. Naches and E. Yakima avenues in Yakima. Plans by John W. Maloney, architect, Central Bldg., Seattle. Cost of the building is not to exceed $1,500,000. Bidders on the original contract were asked to revise plans and exercise some alternates to lower the cost of the project but it was finally decided to readvertise the project. IG 2-9. Previous report 1-10

OFFICE BUILDING— Yakima, Wash.
(Estimated cost $34,000)

Construction underway by Paul Cook, general contractor, 307 Crescent Drive, Yakima, for a new office building to be located at 712 Summitview Ave. in Yakima, for owner E. S. Prentice, 1909 W. Chestnut St., Yakima.

Concrete block structure; flat roof; plaster and paint interior walls; wood lath and plaster partitions; wood trim; acoustical tile ceilings; steel sash; fluorescent lighting; oil forced air heating system. IG 2-12

IDAHO

DRIVE-IN BANK— Caldwell, Idaho
(Estimated cost $250,000)

The First National Bank of Caldwell, C. L. Miller, president, 802 Arthur, Caldwell, has received a building permit for removal of the existing Mary Knight building at 808 Arthur St. in preparation for a construction and remodeling program. The bank purchased the structure and will build a parking lot and drive-in bank facilities. A. L. Brueck, 2110 S. 10th Ave., Caldwell, is contractor for the project. SC 2-9

PARSONAGE— Caldwell, Idaho
(Estimated cost $10,000)

A building permit has been issued to Faith Lutheran Church, Rev. Leonard Dalberg, pastor, Montana and Cherry streets, Caldwell, for a parsonage to be constructed at 1321 Alder St., adjacent to the new church. Construction will be done by A. L. Brueck, 2110 S. 10th Ave., Caldwell. SC 2-9

● **HOSPITAL— Kellogg, Idaho**

Bids to be opened 2 p. m., M.S.T., March 14, by West Spokane Hospital District No. 1, P. O. Box 988, Kellogg, for construction of a 43,200 sq. ft., reinforced concrete, 60-bed general hospital building in Kellogg. Plans available February 13 from Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. $50 deposit for each set of plans. $51 payment for over two sets. Partial sets on equipment only available on $20 payment. 2% bid bond.

One-story structure with partial daylight basement for kitchen, laundry, etc., consists of nursing wing, administration-outpatient wing and two connecting links enclosing a central court; walls on three sides of court are glass; hospital is designed to expand to 70 beds by use of solarium and single rooms; surgical, obstetrical, outpatient and other facilities designed for eventual capacity of 120 beds. Reinforced concrete structure; exterior has brick veneer panels, some exposed concrete, some wood frame and aluminum windows; some aluminum entrance treatment; built-up gravel roofing; metal stud, gypsum board and plaster interior; some acoustical plaster ceilings; wood doors and metal frames; wood stock cabinet work (alternate for metal); vinyl and asphalt tile, and conductive ceramic tile flooring; incandescent and fluorescent lighting; natural gas heating with fin pipes; ventilation in surgeries, interior roms, etc.; doctor's paging system. WB 2-9. Previous report 12-28

● **DENTAL CLINIC— Mountain Home AFB, Idaho**

Bids will be opened 2 p. m., March 7, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Bldg., Walla Walla, for construction of a dental clinic building at Mountain Home AFB, Elmore County, Idaho; ENG-45-164-57-23. Specifications with above office. Bid bond 20%. Completion time 270 calendar days.

Quantities: 40' of 2" water pipe; one 2" gate valves; 125' of 6" sewer pipe; 150 sq. yd. sidewalk; 1,820 sq. yd. asphalt paving; 220' concrete curbing; 94' of 12" culvert pipe; 106' of 15" culvert pipe; 2,200 sq. yd. lawn grass planting and topsoiling; exterior electrical work; removal of asphalt sidewalk and tennis courts.

SP 2-9. Previous report 2-2

● **POST OFFICE, COURTHOUSE ALTERATIONS, LIGHTING— Pocatello, Id**

Bids will be opened 3 p. m., March 6, General Services Administration, Public Buildings Service, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alteration and lighting work at the U. S. Post Office and Courthouse, S. Arthur Ave. at W. Lewis St., Pocatello; Proj. No. CR-10-654. Plans with above office, with custodian of the building in Pocatello, and with General Services Building, 19th and F Streets N.W., Washington, D. C. SP 1

MONTANA

NEWSPAPER PLANT— Butte, Mo

Bids will be called for the second time about March 29 by Standard-Post Publishing Co., 68 W. Broadway, Butte, on revised plans for construction of the Montana Standard and Butte Daily Post newspaper plant on W. Granite St. in Butte. Plans with Eldon F. Moyle of Kestle-Godtland-Moyle, architects, 409 Silver Bow Bldg. (Box 1965), Butte, about February 21. Bids were previously opened November 16 of last year and subsequently rejected.

SC 2-13. Previous report 11-

HIGH SCHOOL— Columbia Falls, Mo
(Estimated cost $1,490,000)

Plans will be complete in May for construction of a new 600-student high school to be located on an 8.4-acre site on 4th Ave. E. in Columbia Falls, for Flathead School District No. 6, D. Fulton, superintendent, Columbia Falls. Plans by Weed & Fehlberg, architects, Sundelius Bldg., Box 183, Kalispell. Completion time January 1, 1960.

Two-story classroom wing; partial basement; 115,000 sq. ft.; concrete footings and foundation; block, metal walls, wind wall; concrete slab floors on grade; steel joists; concrete girders, beams, columns; some steel beams and columns; flat roof; truss roof, 108' span glued laminated for gymnasium; masonry and steel stud partitions; concrete stairways; aluminum windows; brick and porcelain panel exterior; plaster interior wall finish; aluminum and wood trim; plaster and gypsum lath partitions; maple flooring in gymnasium; linoleum tile, quarry tile flooring in kitchen and shower rooms; plaster acoustical ceilings; blackboards; fire doors; insulation; Vermicolite concrete on roof; low pressure steam heating system, heavy oil fuel.

SP 2-9. Previous report

■ **ELEMENTARY SCHOOL— Fort Peck, Mo**

Planholders announced for construction of the Fort Peck Elementary School for which bids will be opened 2 p. m., February 26, in the office of the superintendent, School District No. 21, Valley County, Fort Peck. Plans with Knight & van Teylingen, architects, 413 Medical Arts Bldg., Great Falls.

Planholders—GENERAL: Gens Construction Co., Box 546, Great Falls; Commercial Builders, Box 568, Williston, N. Dak.; Smith Construction Co., Box 1234, Williston; Morgan & Oswood, Glasgow. ELECTRICAL: Glasgow Electric, 509 1st S., Glasgow; Triangle Electric, Box 1317, Williston; Ekblad Electric, Williston.

SC 2-12. Previous report

★ **BUILDING REMODELING, LANDING LIGHTS— Glasgow, Mo**

Awards announced at a joint meeting of the City Council, Valley County Commissioners and Airport Commission, Glasgow, for removing and remodeling a building and for installing modern landing lights on the runway at the city-county airport at Glasgow. AWARDS: George Louden, Circle, $1,100, for moving the old World War II camouflage building to the present hangar area; J. C. Lamb, 302 3rd Ave. N., Glasgow, no amount noted, for remodeling the building, including repairs, painting and concrete floor, for use as a storage structure; Martin Nelson of Glasgow Electric, $

1st Ave. S., Glasgow, $17,182, for lighting 5,000' of the northwest/southeast runway, replacing old flush type lights. A second bid for the lighting project was Lewis Construction Co., 923 10th Ave. N., Great Falls, $17,770. New lights will be 26" off the ground. SC 2-9

▲**EAST JUNIOR HIGH SCHOOL—** **Great Fall, Mont.**

Bids received by School District No. 1, 1015 1st Ave. N., Great Falls, for construction of the new East Junior High School in Great Falls. Plans by McIver, Hess & Haugsjaa, architect, 603 Strain Bldg., Great Falls. Bids opened February 8. GENERAL—LOW BID: Witty & Cowan, Box 1722, $1,483,400. OTHER BIDDERS: Leigland Co., Box 1862, $1,512,478; C. B. Lauch Construction Co., Box 1577, Boise, Idaho, $1,549,666; Sletten Construction Co., Box 1188, $1,558,147; Haggerty-Messmer Co., Box 751, Bozeman, $1,607,371. MECHANICAL—LOW BID: Reber Plumbing & Heating Co., 805 N. Last Chance Gulch, Helena, $330,582. OTHER BIDDERS: Mehl Plumbing Co., 815 Central Ave., $333,628; Fullerton Plumbing & Heating, Box 188, Hamilton, $358,535; Pinski Bros., 1020 Central Ave., $367,352; Edwin Johnson, 117 Central Ave., $433,044. ELECTRICAL—LOW BID: Rowe Electric, 410 1st Ave. S., $147,314. OTHER BIDDERS: Rainbow Electric, 2220 River Drive, $148,562; Cascade Electric Co., 903 10th Ave. N., $149,986. Of Great Falls unless noted. SC 2-8. Previous report 1-9

●**SCHOOL ADDITION—Great Falls, Mont.**
(Estimated cost $250,000)

Bids will be opened 3 p. m., February 19, by Most Rev. William J. Condon, Roman Catholic Bishop of Great Falls, in the basement auditorium of St. Gerard's Church, 2208 5th Ave. N., Great Falls, for construction of a 10-classroom addition to the St. Gerard School at 2212 5th Ave. N. in Great Falls. Plans with Page & Werner, architects, Box 500, Great Falls. $35 deposit. Bid bond 5%.

One-story; no basement; 145'x135', 18,500 sq. ft.; concrete footings and foundation; solid masonry block walls; frame and concrete slab floors; timber and steel girders, columns; flat glued laminated roof; masonry and frame partitions; wood windows; brick exterior, gypsum board, hardboard, masonry interior wall finish, wood trim; exposed masonry, drywall partitions; maple, asphalt tile, ceramic tile, terrazzo flooring; drywall acoustical ceilings; steel gate, blackboards, rolling class A fire doors; blanket, rigid insulation in roof; steam heating system, gas fuel; unit and volumne ventilators.

Planholders—GENERAL: J. Jones, 3910 7th S.; J. E. Beaulaurier, Box 2016; Zion Construction Co., 3016 5th Ave. N.; Gens Construction Co., Box 546; Leigland Co., Box 1862; Burt Talcott, 2600 9th N.; Palmer Construction Co., 1324 Central Ave. W.; Sletten Construction Co., Box 1188. MECHANICAL: J. G. Kelmencic, 2512 9th Ave. N.; Edwin Johnson, 117 Central Ave. W.; Central Plumbing & Heating, 923 Central Ave. W. ELECTRICAL: Rowe Electric, 813 16th N.; Rainbow Electric, 813 16 N. All of Great Falls EE 2-8. Previous report 1-8

MOTEL FIRE— **Great Falls, Mont.**
(Estimated loss $20,000)

Extensive damage was caused by fire in January to the Central Motel, 715 Central Ave. W., Great Falls. Four units, including furnishings, were gutted by the flames and two were damaged by smoke. The main roof, 125'x24', will have to be replaced because the ridge was burned off. SC 2-12

SCHOOLS— **Havre, Mont.**

Bond election will be held April 6 by School District No. 16, S. B. Ensrud, superintendent, Havre, for a $425,000 bond issue to fnance construction of a six-classroom elementary school in Uplands Addition in Highland Park, complete with combined gymnasium and auditorium; construction of an addition to the Sunnyside school; and for final $27,000 payment on propety known as Freeman's Second Addition in south Havre. SC 2-12. Previous report 1-29

NEWSPAPER PLANT— **Helena, Mont.**

Bids will be called for the second time about March 22 by Independent Record, 52 S. Main St., Helena, on revised plans for construction of a newspaper plant at Helena. Plans with Eldred M. Moyle of Kestle-Godtland-Moyle, architects, 409 Silver Bow Bldg. (Box 1965), Butte, about February 15. Bids were previously opened October 10 of last year and subsequently rejected. SP 2-13. Previous report 10-9

HOSPITAL REMODELING— **Lame Deer, Mont.**

Plans announced by the Indian Bureau, Reinholt Brust, assistant area director, 802 N. 29th, Billings, for remodeling the hospital in Lame Deer for use as Northern Cheyenne agency offices. Under present plans, the bureau will use the south half of the hospital building, including the tuberculosis wing, for office space. The north half of the two-story building will be used by the Indian Health Division of the Public Health Service. Renovation of the building's heating plant and electrical system will be necessary as well as rearrangement of plumbing. A telephone system will be installed and the structure will be completely redecorated. Contracts for the project will be let by July 1. LY 2-12

LUTHERAN CHURCH— **Malta, Mont.**
(Estimated cost $80,000 to $100,000)

Plans announced by Malta Lutheran Church, Rev. Norman Wick, pastor, Malta, for construction of a new church building to be located on lots purchased some time ago immediately south of the present building. Preliminary architectural plans have been submitted and provide for a 285-person capacity building with a wing to include offices. Methods of raising funds for the construction are now being discussed. SC 2-12

SCHOOL CONSTRUCTION— **Sidney, Mont.**

Bond election will be held April 6 by Richland County School District No. 5 and Sidney High School District, Sidney, for an additional levy to provide $80,000 for construction of school additions in District No. 5 and for $350,000 bond issue to finance construction of a junior high school addition. Plans by Nordquist & Sundell, architects, 1233 N. 27th, Billings. EE 2-8. Previous report 1-2

WYOMING

★**SOUTHRIDGE ELEMENTARY SCHOOL—** **Casper, Wyo.**

General contract awarded by Natrona County School District No. 2, Casper, for construction of the Southridge elementary school in the Southridge Addition, Casper. Plans by John Pellegren, architect, 508 E. Yellowstone, Casper. AWARD: McDowell & Ground, 2407 Sage St., Casper, $69,545. For mechanical and electrical contracts see PCD 2-7. LY 2-9. Previous report 2-7

MEDICAL BUILDING— **Cheyenne, Wyo.**

Bids will be called about March 1 by A. J. Allegretti, M. D., Hynds Bldg., Cheyenne, for construction of a new medical building on the north side of 19th in the 1600 block on Logan Ave. in Cheyenne. Plans by Morris D. Kemper, architect, 3822 Dillon Ave., Cheyenne. LY 2-8. Previous report 11-16

EAST SIDE GRADE SCHOOL—Cody, Wyo.

Bids will be called about March 1 by School District No. 6, Cody, for construction of a four-classroom addition and an addition to the kitchen at the E. Side Grade School in Cody. Plans by Tresler & McCall, architects, 1276 Sheridan Ave., Cody. LY 2-8

●**SLADE SCHOOL ADDITION—** **Laramie, Wyo.**
(Estimated cost $100,000)

Bids will be opened 8 p. m., March 4, by School District No. 1, Jack Corbett, superintendent, 404 S. 8th St., Laramie, for construction of a three-level six-room addition to Slade School located at 12th and Sully streets in Laramie. Plans with Hitchcock & Hitchcock, architects, 107 S. 5th Ave., Laramie. $25 deposit. Bid bond 5%.

One-story; 12'x62'; steel roof deck; brick and block structure; metal windows and doors; terrazzo flooring in corridors; glazed tile wainscots; acoustical tile ceilings. LY 2-9. Previous report 1-22

●**MEDICAL CLINIC—** **Riverton, Wyo.**
(Estimated cost $100,000)

Bids will be opened 2 p. m., February 26, by Wind River Medical Group, c/o Dr. Bernard Stack, 5th and Fremont, Riverton, for construction of a medical clinic on the northeast corner of 12th and Jackson in Riverton. Plans with Robert Wehrli, architect, 829 Cy Ave., Casper. $50 deposit. Bid bond 5%.

One-story; partial basement; 120'x48'; brick veneer exterior walls; asphalt shingle roofing; covered approach; forced air heating system, cooling tower. LY 2-9

UTAH

▲**BOILER—** **American Fork, Utah**

Bids received by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for furnishing and installing an underfeed stoker-fired boiler for the heating plant at the Utah State Training School in American Fork. Plans and specifications by J. F. Heath, consulting engineer, Phillips Petroleum Bldg., Salt Lake City. Bids opened February 5. LOW BID: James J. Burke Co., 422 W. 9th South, Salt Lake City, $47,786. ONLY OTHER BID: Pace Turpin & Co., 726 S. 3rd West, Salt Lake City, $48,927. GH 2-9. Previous report 1-26

SCHOOL ADDITION—Brigham City, Utah

Project has been tabled by Box Elder County School District, Kenneth E. Weight, superintendent, Brigham City, for construction of an additoin to the Little Valley School in Brigham City. It is possible that

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there will be a reorganization of the school next year that will enable the present building to serve adequately.
SP 2-8. Previous eport 1-23

●VISITOR CENTER, EMPLOYEE HOUSING—
Dinosaur National Monument, Utah

Bids will be opened 10 a. m. and 2 p. m., respectively, March 19, in the office of the Superintendent, Dinosaur National Monument, Vernal, for construction of a visitor center and for construction of employee housing at the monument; Proj. Nos. W107 and W108. Specifications with National Park Service, 1000 Geary St., San Francisco, Calif. Bid bond 20%.

VISITOR CENTER (Proj. W107: Concrete foundations; concrete slab floors; 16,000 sq. ft.; entrance ram; structural steel; block masonry; wood and metal decking; roof and wall insulation; composition roofing; wood and hollow metal doors; steel sash; porcelain enamel glued laminated panels; gypsum lath and plaster; gypsum board; wood casework and wall finish; glass; ceramic tile, asphalt tile, vinyl asbestos tile flooring; metal toilet partitions; oil-fired radiant heating system, steel fuel tank; air conditioning. Building will include a steel-framed, glass enclosed exhibit shelter, one-story office wing, and attached two-story circular element. Completion time 260 calendar days. HOUSING (Proj. W108): Includes two, and possibly three, single-family residences and a four-unit apartment building, all one-story. Concrete foundations; concrete floor slab for garages and patios; wood framing; cement-asbestos shingle exterior wall finish; wood doors including overhead garage type; wood double-hung sash equipped with storm sash; gypsum board wall and ceiling finish; metal wall tile; asphalt tile flooring; composition roofing; evaporative cooling; oil-fired heating facilities. Completion time 150 calendar days.
SP 2-13

SCHOOL ADDITION, REMODELING— Duchesne, Utah

Preliminary plans underway for construction of an addition to include a library room, science room, locker rooms and administrative suites and for remodeling work at the school in Duchesne, for Duchesne County Board of Education, Duchesne. Plans by Cannon & Mullen, architects, 506 Zions Savings Bank Bldg., Salt Lake City. GH 2-8

▲BRANCH BANK BUILDING—Kanab, Utah

Bids received by First State Bank of Salina, Salina, for construction of a new branch bank building in Kanab. Bids opening of February 1 was extended to February 6. LOW BID: Glazier & Hall, Hurricane, $67,998. OTHER BIDS: Hogan & Tingey, 260 E. 400 South, Centerville, $68,590; Witt Construction Co., Box 101, Provo, $70,900. Plans by Lorenzo S. Young, architect, Contitnental Bank Bldg., Salt Lake City. GH 2-13

ELEMENTARY SCHOOL— Kearns, Utah

Bond issue for $3,000,000 was approved in election held February 5 by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, to finance construction of new 22-classroom elementary school, to be located north and west of the shopping center and next to the library, in Kearns. Plans by Barker Engineering Co., 270 S. 12th East, Salt Lake City.
GH 2-13. Previous report 1-15

★JUNIOR HIGH ADDITION—Kearns, Utah

Awards announced by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for converting the elementary school into a junior high school and for construtcion of a 20-room addition to the Kearns Junior High School at Kearns. Plans by Woods & Woods, architects, 19 W.S. Temple, Salt Lake City. AWARDS—GENERAL: Howard Construction Co., 184 E. 4650 South, Salt Lake City, $840,500. MECHANICAL: H. G. Blumenthal, 334 W. 17th South, Salt Lake City, $214,895. ELECTRICAL: Capitol Electric Co., 1218 S. 2nd West, Salt Lake City, $47,442.
GH 2-12. Previous report 1-26

COUNTY SHOPS— Midvale, Utah
(Estimated cost $250,000)

Preliminary plans underway and bids will be opened sometime in April for construction of the new Salt Lake County shops on a 22-acre site at 7200 South between the Denver and Rio Grande and Union Pacific Railroad tracks, in the vicinity of 700 West, in Midvale. Plans by William E. Nelson, architect, 2021 S. 2nd East, Salt Lake City. The new building will replace the old county shops at 4725 S. State St. in Salt Lake City. Bids will be called by Salt Lake County Commissioners, Lamont B. Gunderson, chairman, City-County Bldg., Salt Lake City. Will include county storage, garage and office facilities.
GH 2-2. Previous report 1-31 Salt Lake City

SHOP, LUNCHROOM ADDITION— Murray, Utah

Preliminary sketches underway for construction of a new shop and lunchroom addition at the Murray High School, for Murray City Board of Education, 5025 S. State St., Murray. Plans by Cannon & Mullen, architects, 506 Zions Savings Bank Bldg., Salt Lake City. GH 2-13

BAPTIST CHURCH— Murray, Utah

Working drawings underway for construction of a new Baptist Church at 184 E. McMillan Lane in Murray, for the Murray Baptist Church. Plans by Woolley & Mohr, architects, 505 Utah Savings & Trust Bldg., Salt Lake City. GH 2-8. Previous report 12-21

★HILLCREST ELEMENTARY SCHOOL— Ogden, Utah

Award to Saunders Construction Co., 706 21st St., Ogden, $899,800, by Ogden City Board of Education, Dr. T. O. Smith, superintendent, Ogden. Plans by Eber F. Piers & John L. Piers, architects, 2726 Harrison Blvd., Ogden. PD 2-13. Previous report 2-12

HOSPITAL ADDITION— Ogden, Utah

Preliminary plans underway for construction of an addition to the Thomas Dee Memorial Hospital at 2440 Harrison Blvd. in Ogden. Plans by Hodgson & Holbrook, architects, 807 Eccles Bldg., Ogden. GH 2-8

●LEWIS ELEMENTARY SCHOOL— Ogden, Utah

(Estimated cost $500,000)

Bids will be opened 7 p.m., March 28, by Ogden City Board of Education, Dr. T. O. Smith, superintendent, 2351 Grant Ave., Ogden, for construction of the new Lewis Elementary School at 455 28th St. in Ogden. Plans with Hodgson & Holbrook, architects, 807 Eccles Bldg., Ogden. $100 deposit. Certified check 5%.

Two-story; no basement; 36,000 sq. ft.; concrete footings and foundation; solid masonry walls; concrete floors; steel girders, beams, columns; flat steel truss roof; steel stud partitions; concrete stairways; aluminum windows; face brick and cast stone exterior, plaster interior wall finish; plaster and metal lath partitions; linoleum and asphalt tile flooring; acoustical ceilings; steel exterior, hardwood interior doors; folding doors, sprinkling systems, blackboards; mineral wool batt insulation; gas heating system.
SP 2-12. Previous report 1-22

●BLEACHERS, BASKETBALL BACKSTOPS— Price, Utah

Bids will be opened 2 p. m., February 28, by Jerry King, superintendent of construction, Utah State Bldg. Board, 419 State Capitol Bldg., Salt Lake City, for furnishing and installing bleachers and basketball backstops in the National Guard Armory, Price. Plans with Peter M. A. Moyes, architect, Boston Bldg., 9 Exchange Place, Salt Lake City. $5.00 deposit. Bond 20%. GH 2-13

▲LIBRARY— Price, Utah

Bids received by William J. Walsh, Jr., mayor, Municipal Bldg., Price, for construction of a new public library building (Sched. A) and partial demolition of the existing library building (Sched. B) at Price. Plans by Ralph A. Edwards, architect, 782 E. 21st South, Salt Lake City. Bids opened January 31. LOW BIDS—SCHED. A: Fred M. [illegible] olds, Price, $81,660; Joe Howa Constr[illegible] Co., 2410 Beacon Drive, Salt Lake City, [illegible] 674; Faucett & Devenham, Box 312, [illegible] $81800. SCHED B: Belmon Richards, P[illegible] $1,650; Acme Wrecking & Salvaging Co[illegible] Richards St., Salt Lake City, $3,250; Th[illegible] Lamph, Price, $3,900.
GH 2-12. Previous report

■UNIVERSITY BUILDINGS— Provo, [illegible]

Planholders announced for construction [illegible] five men's residence halls, a central h[illegible] ing, site improvements, sub-surface drai[illegible] and utilities distribution at Brigham Y[illegible] University in Provo, for Joyce W. Tipp[illegible] director, campus planning and develop[illegible] office, 865 N. 7th East, Provo. Bids we[illegible] opened 2 p. m., February 28, in the o[illegible] of L.D.S. Church Building Committee, L[illegible] Church Office Bldg., 47 E.S. Temple, [illegible] Lake City. Lowell E. Parrish, archi[illegible] Dooly Bldg., Salt Lake City, has prep[illegible] plans for the central building, site impr[illegible] ments and utilities. Kegley, Westphal[illegible] Arbogast, 800 S. Robertson Blvd., Los [illegible] geles, Calif., are architects for the [illegible] dormitories. Plans with Director Tipp[illegible] or from the architects.

Planholders: Jacobsen Construction [illegible] 421 W. 13th South; Paulsen Construction [illegible] 1425 Jefferson; Christiansen Bros., 28[illegible] 13th South; Mark B. Garff, Ryberg & G[illegible] Construction Co., 851 W. 15th North; C[illegible] Leavell & Co., 1900 Wyoming St., El P[illegible] Texas; Long Construction Co., 1165 S. P[illegible] sylvania St., Denver, Colo.; Divers[illegible] Builders, Inc., Box 390, Montebello, Ca[illegible] Okland Construction Co., 1978 S.W. Ter[illegible] Tolboe & Harlin Construction Co., 38[illegible] Main; Johnson Construction Co., 172[illegible] Chicago St.; James I. Barnes Construct[illegible] Co., 1119 Montana Ave., Santa Monica, C[illegible] Of Salt Lake City unless otherwise s[illegible]
SP 2-12. Previous report

OFFICE BUILDING—Salt Lake City, U[illegible]
(Estimated cost $2,500,000)

Plans announced by Pacific North[illegible] Pipeline Corp., Stuart F. Silloway, pr[illegible] dent, Box 1526, Salt Lake City, for constr[illegible] tion of an eight-story office building on [illegible] northeast corner of 3rd East and 2nd So[illegible] streets in Salt Lake City. Construction [illegible] start later in February (tentative) and [illegible] serve as a base for headquarters operati[illegible] of the company. Bids on the general c[illegible] struction contract are now being stud[illegible] and an award will be made soon. SC[illegible]

WOODSTOCK ELEMENTARY SCHOOL ADDITION— Salt Lake City, U[illegible]

Plans will be complete March 10 for c[illegible] struction of a 15-classroom addition [illegible] Woodstock Elementary School, 6015 S. [illegible] East, Salt Lake City, for Granite Sch[illegible] District, David Gourley, superintend[illegible] 3212 S. State St., Salt Lake City. Plans [illegible] Cannon & Mullen, architects, 506 Zions Sa[illegible] ings Bank Bldg., Salt Lake City. A bo[illegible] election was held February 5 for a bo[illegible] issue which would provide for this constru[illegible] tion but results have not yet been receiv[illegible]

Three-story; no basement; 100'x70', 1[illegible] sq. ft.; concrete footings and foundatio[illegible] poured concrete and solid masonry wal[illegible] concrete slab floors; precast concrete girde[illegible] flat roof; block and glazed structural t[illegible] partitions; concrete stairways; steel w[illegible] dows; painted block interior wall fini[illegible] block exterior; asphalt tile, rubber t[illegible] flooring; acoustical tile ceilings; metal a[illegible] wood doors; blackboards; Fiberglas insul[illegible] tion in roof; low pressure steam heati[illegible] system, coal fuel; unit vents.
GH 2-8. Previous report 1-

SPERRY-RAND PLANT— Salt Lake City, Ut[illegible]

The construction of an administrati[illegible] building has been deleted from plans [illegible] which bids are being opened 12 noon, Febr[illegible] ary 14, by Sperry-Rand Corp., Deseret Bldg[illegible] Salt Lake City. The bid call will be f[illegible] construction of a 90,000 sq. ft. manufactu[illegible] ing plant addition, an environment te[illegible] laboratory and a boiler house at the Sperr[illegible] Gyrascope plant located east of the Sa[illegible] Lake Municipal Airport No. 1 on 21st We[illegible] in Salt Lake City. Plans with Paul [illegible]

Evans, architect, 237 E. 3rd South, Salt Lake City. GH 2-12. Previous report 2-5

WILLIAM PENN SCHOOL ADDITION— Salt Lake City, Utah

Bond issue was approved at February 5 election held by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, to finance construction of a ten-room addition to the William Penn elementary school at 1670 Siggard Drive, Salt Lake City. Plans underway by Robert L. Springmeyer, architects, Zions Savings Bank Bldg., Salt Lake City. Estimated cost $150,000. GH 2-12. Previous report 1-15

★WAREHOUSE, OFFICE ALTERATION— Salt Lake City, Utah

Award to Weyher Construction Co., 580 S. 4th West, Salt Lake City, $4,900, by Department of the Air Force, National Guard Bureau, Office of the U. S. Property & Fiscal Officer, Fort Douglas, for alterations to the National Guard offices and warehouse at the Salt Lake Municipal Airport No. 1, Salt Lake City. GH 2-12. Previous report 1-26

MEN'S DORMITORY— St. George, Utah
(Estimated cost $260,000)

Preliminary approval granted by Federal Housing & Home Finance Agency for a $260,000 loan to Dixie College, Arthur S. Bruhn, president, St. George, to finance construction of a new 100-man dormitory at the college. GH 2-2. Previous report 12-21

MCA HOUSING UNITS— Wendover AFB, Utah

Preliminary plans complete for construction of 68 MCA family housing units at Wendover AFB. Plans by William F. Thomas, architect, Union Pacific Bldg. Annex, Salt Lake City. Bids will be called about February 26, by Corps of Engineers, San Francisco District, 180 New Montgomery St., San Francisco, Calif. GH 2-2. Previous report 1-15

■JUNIOR HIGH SCHOOL— West Jordan, Utah
(Estimated cost $1,500,000)

Planholders announced for construction of the one- and two-story West Jordan junior high school, 7600 S., west of West Jordan, on which bids will be opened at 6 p. m., February 19, by Jordan Board of Education, Dr. J. O. Jones, president, 9361 S. State St., Sandy. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City. Deposit $25. Bond 5%.

Planholders: Tolboe & Harlin, 3091 S. Main St.; Paulsen Construction Co., 1425 Jefferson St.; Christiansen Bros. Construction Co., 209 W. 13th South; Bowers Building & Construction Co., 1033 S. State St.; Howard Construction Co., 184 E. 4050 South; Alder-Child Construction Co., 438 E. 4th South; Fredrickson Builders, 4670 Redwood Road; Maurice B. McCullough, 503 13th Ave.; Johnson Construction Co., 1725 Chicago St. All of Salt Lake City. GH 2-13. Previous report 2-7

ALASKA

★NAVAL BUILDINGS, UTILITIES— Adak, Alaska

Award to B-E-C-K Constructors, 3647 Stone Way, Seattle, and Raber & Kief, 420 Queen Anne, Seattle, $4,448,000 (jont venture), by 17th Naval District, Bureau of Yards and Docks, Captain R. B. Krum, district public works officer, Naval Station, Kodiak, for construction of naval buildings and utilities at Adak; Spec. No. 2423/56. Plans and specifications by Leo Daly & Associates, architects and engineers, Securities Bldg., Seattle. SP 2-9. Previous report 1-24

FIRE STATIONS, WATER LINE EXTENSION— Fairbanks, Alaska

Two bond issues approved in the January special election held by City Council, City Hall, Fairbanks, to finance construction of two new fire stations ($200,000 bond issue) and to extend city water lines to south Fairbanks. SC 2-13

●DETENTINON HOME—Ketchikan, Alaska

Bids will be opened 2 p. m., February 28, by Calvin E. Pool, director of Board of Juvenile Institutions at the City Hall, Ketchikan, for construction of a juvenile detention home in Ketchikan. Plans with Charles A. Baylon and Roland H. Lane, architects, 504 Mission St., Ketchikan. $25 deposit. Certified check, cashier's check or bid bond 5%.

Building will consist of living room, kitchen, storage, boiler room, parents' room, boys' and girls' detention rooms and baths. Construction is concrete floor-on-grade, cement block walls, plaster interior finish, wood roof deck with built-up roofing; detention sash; hot wter heating. DC 2-8

●AMMUNITION STORAGE FACILITIES— Ladd AFB, Alaska

Bids will be opened 2 p. m., February 26, by Corps of Engineers, Alaska District, in the Seattle district office, 4735 E. Marginal Way, Seattle, for construction of ammunition storage facilities at Ladd AFB; ENG-95-507-57-37. Specifications with above office. Bid opening of December 18 was previously postponed indefinitely. SP 2-12. Previous report 12-13

■BUILDINGS, UTILITIES— Port Heiden, Port Moller AF Station, Alaska

Planholders announced for buildings and structures and outside utilities to serve Port Heiden and Port Moller Air Force Stations; ENG-95-507-57-59. Bids will be opened 2 p. m., March 1, by Corps of Engineers, Alaska District, in the Seattle branch office, 4735 E. Marginal Way, Seattle.

Planholders: J. C. Boespflug Construction Co., 1912 4th Ave. S., Seattle; Islands Construction Co., 1103 N. 36th St., Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Peter Kiewit Sons' Co., 1300 Aloha St., Seattle; B-E-C-K Constructors, 3647 Stone Way, Seattle; Charles A. Langlais & Sons, Inc., 474 Bryant St., San Francisco, Calif.; Raber & Kief, 420 Queen Anne, Seattle; S. S. Mullen, Inc., Box 3886, Terminal Station, Seattle; C. H. Malcolm, 3020 36th Ave. W., Seatle; W. L. Reid Co., 3178 S.W. 87th Ave., Portland; The Bay Co., 1512 Center St., Tacoma; Chris Berg, Inc., 2730 Westlake Ave. N., Seattle; W. R. Grasle Co., 437 N.W. 16th Ave., Potland; Holaday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; Green Construction Co., 928 Securities Bldg., Seattle; P. J. Anderson & Sons, 13501 Aurora, Seattle; S. Birch & Sons Co., 208 Central Bldg., Seattle; McLaughlin, Inc., c/o Mr. McLain, Box 1426, Greenwood Station, Seattle; Stoen Construction Co., 2210 E. 95th St., Seattle; Manson-Osberg, 1132 N. 128 St., Seattle; G. W. Gustafson, 6415 Greenwood, Seattle; George E. Thompson Co., 616 N. 41st Ave., Minneapolis, Minn. SP 2-9. Previous report 2-7

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

●LIGHT STRUCTURE— Astoria, Ore.

Bids will be opened 2 p. m., March 1, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of 9-pile light structure including daymark installation for Flavel Range Front Light No. 28 on the Columbia River near Astoria; Bid No. FS-1535. Specifications with above office. Bid bond 5%. SP 2-12

●STONE REVETMENT— Columbia County, Ore.

Bids will be opened 2 p. m., February 25, by Bonneville Power Administration, 1001 N.E. Columbia Blvd., Portland, for stone revetment for Longview-Rainier Tower 3/1, three mi. west of Longview, Wash., in Columbia County, Ore.; Inv. No. 8286. Specifications with above office. Bid bond 25%. Quantities: 13,000 c.y. excavation; 2,500 c.y. pervious material; 4,600 c.y. dumped stone. SP 2-13

▲FAIRVIEW SUBSTATION—Coquille, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Fairview substation, 7 mi. east of Coquille, Coos County, Ore.; Inv. No. 8261. BIDDERS: George S. Smith, Route 1, Box 19-A, Bothell, Wash., $158,153; The Brandon Co., 6401 Lincoln, Vancouver, Wash., $174,450; John M. King Co., 1601 Taylor Way, Tacoma, $175,132; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland, $194,521. Bids opened February 6. WB 2-8. Previous report 1-31

WALKWAY— Crater Lake, Ore.

Plans underway by U. S. National Park Service engineers for construction of an all-weather walkway from the rim of Crater Lake to the shore of the lake at Crater Lake National Park. Distance will be between 250 yd. and 300 yd. and will make Sinnott Memorial, inside the rim of the lake, accessible to visitors nearly all year. When plans are completed and approved, bids will be called by Tom Williams, superintendent of Crater Lake National Park, Federal Bldg., Medford. Plans are also being considered for construction of a new public information building at the rim of the lake. ZZ 1-31

▲BRIDGE— Florence, Ore.

Bids received by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St. (P. O. Box 4137), Portland, for construction of North Fork Cape Creek Bridge on Forest Road No. 165, approximately 4 mi. from U. S. Highway 101, Lane County, Siuslaw National Forest, Ore. LOW BIDS: John L. Jersey, 3647 S.E. 34th Ave., Portland, $14,623; Valley Construction Co., 6100 N.E. Columbia Blvd., Portland, $15,080; Roger E. Holmes, Olympia, $16,247. Bids opened February 7. WB 2-12. Previous report 1-22

▲BARBED WIRE FENCE— Harney County, Ore.

Bids received by Bureau of Land Management , P. O. Box 3861, Portland, for construction of 8½ mi. of barbed wire fence in central Harney County in the Frenchglen-Warm Springs Division; Inv. No. 800. BIDDERS: Roy Travis, Princeton, $1,360; Norman Williams, Burns, $1,700; Tom Basey, Paulina, $1,912; Columbia River Fence Co., Moses Lake, Wash., $3,400; Butler Contracting Co., Salem, $4,148. Bids opened February 5. WB 2-8. Previous report 1-26

●IRRIGATION SYSTEM IMPROVEMENTS— Klamath Falls, Ore.

Bids to be opened 3 p. m., March 25, by Bureau of Indian Affairs, Land Operations-Irrigation Office, room 851, Interior Bldg., 1001 N.E. Lloyd Blvd., P. O. Box 4097, Portland, for construction of pumping and station and rehabilitation of irrigation works, Modoc Point Project, Klamath Indian Reserbation, Ore.; Inv. No. 108-57-325 (Readvertisement). Plans with above office. Bid guarantee 5%.

Project is located between U. S. Highway 97 or Southern Pacific Railroad on the east and Upper Klamath Lake on the west, and extends north from Modoc Point about 6 mi. to the Williamson River. Modoc Point is a station of the railroad about 19 mi. north of Klamath Falls. Pumping station consists of two units, each to pump 40 c.f.s. through total head of 30.3' and will be powered by an electric motor of 175 hp. directly connected to vertical shaft pumps. Other work consists of excavating a drain approximately 3,000' long, rebuilding canal banks, constructing a new lateral, installing two pipe lines, constructing and installing approximately 35 irrigation and drainage structures. Pumping equipment and much of the other material and equipment will be furnished by the government.

WB 2-13. Previous report 1-17

SEWER SYSTEM— Klamath Falls, Ore.

The Oregon State Sanitary Authority has allocated $146,000 in federal funds to the City of Klamath Falls to finance improvement and enlargement of the city's sewer system and for construction of a new sewage treatment plant in Klamath Falls. The federal funds will be added to funds raised by the bond issue approved May, 1956. Bids will be called this winter by City Council, City Hall, Klamath Falls, for spring construction of the enlarged system and treatment plant, according to city engineer E. A. Thomas. Plans call for enlarging several of the main trunk lines to relieve pressure on existing lines. The present treatment plant on the west side of the Klamath River will be utilized as a pumping plant to move sewage from a large section of the city to a new treatment plant to be built on the east bank of the Klamath River. ZZ 2-7

●TURBINE TYPE PUMP— Lowell, Ore.

Bids rejected. Bids will be opened 2 p.m., February 18, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for designing, manufacturing and delivering fob Lowell, a turbine type or propellor type pump to be used in experiments by the Oregon State Fish Commission in the Lookout Point dam reservoir on Middle Fork Willamette River; CIVENG-35-026-57-155. Specifications with above office. Bids were previously opened January 29.

SP 2-9. Previous report 1-31

★BOOSTER PUMPING EQUIPMENT— Milwaukie, Ore.

Award to Pacific Pumping Co., 526 N.W. Broadway, Portland, $6,225, by Oak Lodge Water District, S.E. River Road, Milwaukie, for booster pumping equipment. Bids to be called later for construction of pumping station and installation of equipment. Plans by Carl Green & Associates, consulting engineers, 510 Henry Bldg., Portland.

WB 2-8

▲LOOKOUT TOWERS— Portland, Ore.

Bids received by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for various proposals for furnishing lookout towers and houses. LOW BIDS—STEEL TOWERS: Portland Erection Co., 8330 S.W. Schiller Road, Portland, (Item 1) $7,250 each; Eugene Truck & Machine Co., Eugene, (Items 2A and 2B) $2,845 each; (Items 3A and 3B) $4,484 each. WOOD TOWERS: Calvert Co., 218 "V" St., Vancouver, (Items 1 and 2) $414 each; (3 and 4) $560 each. HOUSES: Cooley-Wolsborn Construction Co., 1130 S.E. 122nd Ave., (Items 1-11) $2,622 each, or total of $28,848. Bids opened February 11.

WB 2-13. Previous report 1-26

●STATE HIGHWAY PROJECTS— Portland, Ore.

Bids will be opened at 9 a. m., February 28, by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland on highway construction. Plans and specifications may be obtained from the office of W. C. Williams, state highway engineer, State Highway Bldg., Salem. $2 charge. Given below is a partial list of the projects on which bids will be received February 28. The remaining projects which will be released not later than February 14 will be located in Baker, Crook, Douglas, Josephine, Lake, Lane, Marion, Multnomah, Tillamook, Umatilla, and Wasco counties.

At the two-day highway meeting in Portland, February 28 and March 1, bids will be opened on projects estimated to cost $4,300,000.

ROCK PRODUCTION — Azalea - Macklin Gulch—About 7,000 c.y. crushed material in stockpile on Pacific Highway about 15 mi. south of Canyonville, Douglas and Josephine counties; a State Project.

OILING, STOCKPILING—Suntex and Alkali Lake-Lake Abert—Furnishing 24,200 c.y. crushed aggregates and stockpiled materials, 690 ton 120-150 asphalt, 190 ton RS-1 asphalt, a total of 31.92 m. of oiling on Central Oregon and Lakeview-Burns highways west and southwest of Burns, Lake and Harney counties; a State Project.

HONEYMAN PARK OVERNIGHT COMP EXPANSION—Construct camping area and roadways about four mi. south of Florence, Lane County; a State Project.

Quantities: 7,760 c.y. excavation; 180' of 12" and 250' of 18" concrete pipe; 830 c.y. base materials. This project may be bid in combination with Honeyman Park facilities project.

HONEYMAN PARK OVERNIGHT CAMP struct utility building, extend water and sewer systems, construct 33 tables and stoves about four mi. south of Florence, Lane County; a State Project. This project may be bid with the preceding job.

NEWPORT-TOLEDO GUARDRAIL PROJECT—About 9,000' of metal guardrail (new design) in Lincoln County; a State Project.

LEBANON TRAFFIC SIGNALS—Install traffic signals at intersection of Main and Milton streets in Lebanon, Linn County; a State Project.

GRADING, PAVING—Salem—Grading 0.18 mi. and asphaltic concrete paving 0.77 mi. on State St.-Mission St. extension section of the North Santiam Highway near Salem, Marion County; a State Project.

Quantities: 2,400 c.y. excavation: 26 c.y. concrete in curbs and islnds; 125' guardrail; 3,800 c.y. crushed base materials; 7 ton RC-3 asphalt; 2,400 ton asphaltic concrete pavement; 8 ton RS-1 asphalt.

GRADING, PAVING — Portland—Grading and asphaltic concrete paving 2.15 mi. on Halsey St.-Division St. section of 122nd Ave. esat of Portland, Multnomah County; FAP S-255(3).

Quantities: 84,400 c.y. excavation; 800 c.y. concrete in curbs, driveways, walks and wall; 4,800 lb. metal reinforcement; 140', 3" chain link fence; 52,350 c.y. crushed base materials; 160 ton RC-3 asphalt; 21,000 ton asphaltic concrete pavement; 35 ton RS-1 asphalt.

ROOSTER ROCK PARK BOAT CHANNEL PROJECT—Construct about 2,800' of boat channel along Latourell Creek about 23 mi. of Portland, Multnomah County; a State Project. Requires about 22,100 c.y. excavation.

DM 2-8

SEWAGE SYSTEM— Portland, Ore.

Bond election for $750,000 to be held March 12 by West Slope Sanitary Distrtict, A. C. Allen, chairman of board, District Office, 9025 S.W. Canyon Road, Portland, for sewage system. District is located between Bertha-Beaverton Highway and Sunset Highway, Multnomah County line and Beaverton City Limits. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. Bond election for $700,000 was defeated in November, 1955.

WB 2-8. Previous report 11-16-55

▲MATERIAL LOADER— Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing automotive material loader. ONLY BIDDER: Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., Portland, $7,398. Bids opened February 5.

WB 2-8. Previous report 1-30

▲TRACTOR— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing gasoline power tractor. BIDDERS: Cramer Machinery Co., 1005 S.E. Stark St., Portland, $2,474, (alternate) $2,795; Casey Tractor & Equipment Co., 1800 S.E. Union Ave., Portland, $2,588. Bids opened February 5.

WB 2-8. Previous report

STREET WIDENING— Portland,
(Estimated cost $1,600,000)

Widening of S.E. Stark and S.E. Division streets during the 1958 construction year has been recommended to the Board of Multnomah County Commissioners, Jack Bain, chairman, Court House, Portland, by county roadmaster, Paul Northrup, 2115 N.E. Morrison St., Portland. Project would include widening Stark to 80' between 82nd Ave. and 122nd Ave., and widen Division to 90' between S.E. 82nd Ave. and 122nd Ave. Both would be developed as four-lane arterials east of the city limits.

The roadmaster also recommended widening 102nd Ave. from N.E. Glisan St. to Burnside or perhaps on south to Stark at estimated cost of $176,000.

●STATE HIGHWAY PROJECTS— Portland,

Bids will be opened 9 a. m., March 1, by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland on highway construction. Specifications with W. C. Williams, state highway engineer, Highway Bldg., Salem. $2 deposit. The following group of projects contains only a partial list of the jobs on which bids will be opened March 1. The remaining projects will be released for publication not later than February 14. Estimated cost of the projects to come before the commission at its two-day meeting February 28 and March 1 is $4,300,000.

CORVALLIS SLOPE PROTECTION—Intermittent river bank protection along 0.34 mi. of Albany-Corvallis Highway near Corvallis, Benton County; a State Project. Requires about 2,700 c.y. rock material.

FLAVEL ST.-GLENCOE ROAD FOOTPATH—Asphaltic concrete footpath on 1 mi. Cascade Highway (S.E. 82nd Ave.) near Portland, Clackamas and Multnomah counties; a State Project.

Quantities: 310 c.y. excavation; 280 c.y. crushed base materials; 280 ton class D asphaltic concrete pavement.

OLNEY - JEWELL ROCK PRODUCTION PROJECT—About 8,500 c.y. crushed material in stockpile on the Nehalem Highway about six mi. southeast of Astoria, Clatsop County; a State Project.

PRUNER BRIDGE—Construct two new bridge piers, 308' of reinforced concrete deck girder superstructure, and 252' of prestressed concrete girder superstructure over the South Umpqua River on Riddle County Road, Douglas County, two mi. north of Riddle; FAP No. S-302(2).

Quantities: 800 c.y. structure excavation; 490' steel pile shell; 1,000 c.y. class A concrete; 500 c.y. class A-A concrete; 245,000 lb. metal reinforcement; 33,000 lb. prestressed reinforcement; 90', 8" metal drain pipe.

ROCK POINT GUARDRAIL—About 1.8 mi. guardrail of design matching existing guardrail on Pacific Highway near Gold Hill, Jackson County; a State Project.

GRADING, OILING—Silver Lake Section —Grading and oiling 1.34 mi. on Fremont Highway about 11 mi. southeast of town of Silver Lake, Lake County; a State Project.

Quantities: 41,400 c.y. excavation; 6,[illegible] c.y. selected roadbed topping; placing [illegible] c.y. state-furnished aggregates; 60 ton [illegible] 300 asphalt.

LANE COUNTY GUARDRAIL PROJECT —About 3,100' guardrail at five locations on the McKenzie and Willamette highways east and southwest of Eugene; a State Project.

OILING—Boyd-Dufur Section—Oiling 6 mi. Boyd-Dufur Road northeast from Dufur, Wasco County; FAP No. S-117(1).

Quantities: 3,950 c.y. state furnished aggregates and shoulder materials; 86 ton RC asphalt; 234 ton 120-150 asphalt.

SHANIKO ROCK PROJECTION — About 10,000 c.y. crushed materials in stockpile on Sherman Highway, Wasco County; a State Project.

GRADING, OILING—Hopewell Section— Grading and oiling 0.28 mi. Bellevue-Hopewell Highway at Hopewell about 6.5 mi. southeast of Amity, Yamhill County; a State Project.

Quantities: 5,900 c.y. excavation; 52 c.

concrete in box culvert; 4,900 lb. metal reinforcement; 3,830 c.y. crushed base materials; 20 ton 120-150 asphalt. DM 2-9

WATERWORKS MATERIALS— Portland, Ore.

Bids rejected by Garden Home Water District, Donald W. Prairie, chairman of board, 7134 S.W. Garden Home Road, Portland, for 4,600' of 12" cast iron or steel pipe, 2,000 fittings, couplings, etc., for water supply line. Bids opened January 14. New bids will be called for later in combination with pipe, fittings, etc., for distribution system. Following the awarding of material contracts, bid call will be issued for construction of the water lines. Plans by Carl E. Green & Associates, consulting engineers, 510 Henry Bldg., Portland.
WB 2-8. Previous report 12-21

▲FABRICATION OF SWITCHES— Portland, Ore.

Bids received by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., (P. O. Box 4099), Portland, for fabrication of four 30" pipe switches. BIDDERS: Ted Nelson Co., Swan Island, Portland, $2,560; Gunderson Bros., 4700 N.W. Front Ave., Portland, $2,674. Bids received February 6. WB 2-9. Previous report 1-30

● GRADING, PAVING— Portland, Ore.

Bids to be opened 10:30 a.m., February 21, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for three grading and paving projects. Plans with roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge each project. Certified check or bid bond 10%.

S. E. Bybee Blvd. from 82nd Ave. to 78th Ave. includes grading and surfacing with bituminous macadam, penetration type, or Class B asphaltic concrete; S. E. 132nd Ave. from Raymond St. southerly 525' includes grading, constructing rock base and surfacing with bituminous macadam, penetration type, or asphaltic concrete; N. E. 137th Ave. from N. E. San Rafael St. to south line of Clifgate No. 2 includes grading, constructing rock base and surfacing with bituminous macadam, penetration type, or asphaltic concrete. WB 2-9

● ROCK CRUSHING— Portland, Ore.

Bids to be opened 10:30 a.m., February 26, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Court House, Portland, for furnishing the development of 2" to 0" crushed ledge rock at Rocky Butte quarry. Specifications with roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%. WB 2-9

▲GRADING, SURFACING— Portland, Ore.

Bids received by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for two grading and surfacing projects. BIDDERS—S.E. MADISON ST.: Multnomah Road & Concrete Co., 1130 S.E. 122nd Ave., $10,402; Oregon Asphatic Paving Co., 0441 S.W. Porter St., $10,434; Logan, Taylor & Co., 7800 N.E. Killingsworth St., $10,559; Portland Road & Driveway Co., 7295 S.E. King Road, $10,591; Ray V. Hutton, 8407 S.E. 82nd Ave., $10,715; Parker & Fuhrman Co., 11524 S.E. Foster Road, $11,545. S. W. PRIMROSE ST.: Portland Road & Driveway Co., $7,931; Oregon Asphaltic Paving Co., $8,325; Parker & Fuhrman, $8,461; Logan, Taylor & Co., $8,541. Of Portland. Bids opened February 7. WB 2-12. Previous report 1-26

● GRADING, CONCRETE BRIDGE— Portland, Ore.

Bids will be opened 10 a.m., February 27, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for grading and constructing a 72' reinforced concrete bridge on 9.064 mi. Middle Creek Road and North Fork Middle Creek Road, Bureau of Land Management—Coos Bay District, Coos County, Ore.; Oregon Timber Access Road Project BLM 621-A and 622-A. Specifications with above office.

Quantities: 80 acre clearing; 46 acre grubbing; 413,000 c.y. excavation; 402,000 sta. yd. overhaul; 67 c.y. concrete; 15,000 lb. reinforcing steel; 5,850' culvert pipe; 144' pipe arch culvert; 90' of 108" structural plate pipe; 76' structural plate pipe arch. SP 2-12

● CONDUCTOR HARDWARE— Portland, Ore.

Bids will be opened 2 p.m., February 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering conductor hardware fob Eavan Spur, Vancouver, Wash. (Groups A and C), and The Dalles, Moro and Terrebonne, Ore. (Group B); Inv. No. 8284. Specifications with above office. SP 2-12

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened January 22 in Portland.

TILLAMOOK - DONALDSON SECTION — Paving with asphaltic concrete 3.92 mi. Wilson River Highway east from Tillamook, Tillamook County; FAP No. F-191(14).

AWARD: Calkins Crushing Co., Box 547, Oceanlake, Ore., $289,226.
SP 2-12. Previous report 1-9

● STEEL PIPE, FITTINGS—Portland, Ore.

Bids to be opened 11 a.m., February 18, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for 82' of 2" and 15' of 3" stainless steel welded pipe and fittings, fob Portland; Inv. CIVENG-35-026-57-163. WB 2-12

● STEEL SLIDING DOORS—Portland, Ore.

Bids to be opened 10 a.m., March 1, by Commission of Public Docks, F. M. Fahrion, purchasing agent, 3070 N.W. Front Ave., Portland, for purchase of 18 steel sliding doors and associated hardware. Specifications with purchasing agent. WB 2-12

● TRUCK BODIES— Portland, Ore.

Bids to be opened 2 p.m., February 20, by city purchasing agent, 208 City Hall, Portland, for furnishing and installing truck bodies on city owned equipment. Specifications with purchasing agent. Certified check or bid bond 10%. WB 2-12

STREET IMPROVEMENT— Salem, Ore.

Quantities listed for improvement of Jack St. between Stark St. and Wilshire Drive in Salem, including excavating, grading, paving, and curb and storm sewer installation. Bids will be opened 10 a.m., February 18, by Marion County Court, room 110, Courthouse, Salem. Speciications with John Anderson, county engineer, room 127, Courthouse. Bid bond 10%.

Quantities: base course rock—700 c.y. barn run rock (alt. A), 500 c.y. crushed rock (alt. B); 550' o 10" B & S sewer pipe; 550' trench excavation; 300 c.y. trench backill; 3 catch basins; 40' of 6" B & S sewer pipe; 300 ton asphaltic concrete pavement; 1,000' concrete curbs; 10 M gal. sprinkling; also clearing, grubbing and unclassified excavation.
CI 2-7. Prepious report 1-17

■WATER TRANSMISSION LINE— Salem, Ore.

(Estimated cost $3,000,000)

Planholders announced for construction of Salem's water transmission line No. 2, a 20-mile line from the Santiam River in Stayton to Salem. Bids will be opened 2 p.m., February 21, in the office of Kent Mathewson, city manager, by City Council, City Hall, Salem. Specifications with Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem.

Planholders: American Pipe & Construction Co., 518 N.E. Columbia Blvd., Portland; Beall Pipe & Tank, 12005 N. Calvert Ave., Portland; Coast Construction & Excavating Co., Box 3098, Eugene; Consolidated Western Steel, 1729 Exchange Bldg., Seattle; Cronkite Construction Co., Box 316, Hillsboro; Engineers Limited Pipeline Co., Box 4622, Portland; E-W Construction Co., 3170 W. 11th Ave., Eugene; H. D. Fowler Co., Inc., Box 3084, Seattle; E. T. Haas Co., Box 95, Belmont, Calif.; Carl M. Halvorson, Inc., Box 1449, Portland; Henry Den Herder, Box 307, Lebanon; N. P. Van Valkenburgh Co., 1627 N. Chico Ave., El Monte, Calif.; Jeske Bros. Construction Co., 1870 Pacific Highway 99 N., Eugene; Harold Kaeser Co., 3629 34th S., Seattle; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland; Parker-Schram Co., Builders Exchange Bldg., Portland; Salem Sand & Gravel, 1405 N. Front St., Salem; S. E. Pipeline Construction Co. of Nevada, Box 831, Whittier, Calif.; Tulsa Pipe Coating, Inc., 2240 E. Apache, Tulsa, Okla.; United Concrete Pipe Corp., Box 425, Baldwin Park, Calif.; Scheumann & Johnson, 1014 Lloyd Bldg., Seattle; Kaiser Steel Corp., Napa, Calif.; Kuckenberg Construction Co., Box 7407, Portland; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Lord Bros., 9233 N. Calvert Ave., Portland; Salem Pipeline Constructors, 2544 N.E. Union Ave., Portland; Collins Concrete & Steel Pipe Co., 3841 N. Columbia Blvd., Portland; R. V. Lloyd & Co., Box 128, Coachella, Calif.; Stoddard Engineering Corp., 1115 E. Rosecrans Ave., Compton, Calif.; Idaho Concrete Pipe Co., Inc., Box 69, 222 Caldwell Blvd., Nampa, Idaho.
CI 2-9. Previous report 1-25

▲SANITARY SEWER— The Dalles, Ore.

No bids received February 4 by John B. Thomas, city clerk, City Hall, The Dalles, for construction of the Liberty Way sanitary sewer in The Dalles. The city will install the sewer by force account, according to Jack Kalinoski, assistant city engineer, City Hall. SC 2-9. Previous report 1-19

★WELDER— The Dalles, Ore.

Award to David Industrial Products, 338 N.W. 6th Ave., Portland, $853, by Corps of Engineers, 628 Pittock Block, Portland, for one A-C motor driven D. C. welder with 300 ampere rating, fob The Dalles, Ore; CIVENG-35-026-57-146. Bids opened January 15. WB 2-9. Previous report 1-11

★SUBSTATION, CONTROL HOUSE— The Dalles, Ore.

Award to L. B. Read, 2607 S.W. Sunset Blvd., Portland, $107,682, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Chenoweth substation and control house, two miles north of the west city limits of The Dalles, Wasco County, Ore.; Inv. No. 8256.
WB 2-12. Previous report 2-6

● SANITARY SEWER— The Dalles, Ore.

Bids will be opened February 18 by City Council, City Hall, The Dalles, for construction of the Liberty Way sanitary sewer in The Dalles. Specifications with J. R. Kalinoski, assistant city engineer, at above address. The city will not do the work by force account as previously planned when no bids were received February 4.
SP 2-12. Previous report 2-9

SEWAGE TREATMENT PLANT— Tigard, Ore.

(Estimated cost $91,456)

The Tigard Sanitary District, Tigard, has been offered a federal grant of $27,437 toward a new sewage treatment plant at Tigard. SC 2-13

WASHINGTON

SEWER SYSTEM, TREATMENT PLANT— Battleground, Wash.

Bond election will be held soon by City Council, City Hall, Battleground, for a $240,000 bond issue to finance a sewer system (110,000) and treatment plant ($100,000) for the city. Connection fees of $75 have been proposed along with the bond issue. SC 2-8

▲MOWER TRACTOR— Bellingham, Wash.

Bids received by City Comptroller, City Hall, Bellingham, for furnishing and delivering fob Bellingham, one 1957 mower tractor complete with hydraulic hoist for three 30"

gang mower units; trade-in is 1941 Toro tractor with three cutting units. Bids opened February 4. LOW BID: North Washington Implement Co., Lynden, $2,364 (base), $625 (trade-in). ONLY OTHER BIDDER: Ivan W. Lee & Sons, 705 4th Ave., Seattle, $2,831, $400. The Park Board has referred the bids and alternates to the Park Superintendent and maintenance man for study and recommendation for award. Recommendation will be received by the board at its March 6 meeting. ET 2-8. Previous report 1-15

SEWER SYSTEM— Bothell, Wash.

Plans to be completed about April 1 by Leo Daly & Associates, consulting engineers, Securities Bldg., Seattle, for construction of sewage treatment plant, lines, pump stations; sewer system involving mains, laterals, interceptors; outfall connecting to the Lake Sammamish Slough and then to Lake Washington. Bids will be called about middle of April for opening about May 1 by Town Council of Bothell, W. C. Caldwell, town clerk, Town Hall, Bothell.
GW 1-31. Previous report 1-15

WARREN AVENUE BRIDGE— Bremerton, Wash.

Bids will be called late in February by the state highway department on the first portion of the new Warren Avenue Bridge project in Bremerton. The project has been divided into several packages, and the first bid call will be on the steel superstructure. It is necessary to place the steel order soon because of delivery problems, even though the steel erection is not slated until the job is well along. A bid on the concrete superstructure will be issued about two months later.

The following contracts will be let progressively with all to be awarded by the end of the year: 1—steel superstructure; 2—concrete superstructure and substructure; 3—north approach; 4—south approach including improving Warren Ave., widening 11th St. and constructing a fill to extend 11th St. across Warren Ave. playfeld; 5—electrical work; 6—toll collection facilities; 7—housing for traffic-recording equipment; 8—toll-collection facilities on existing Manette bridge and widening the west 200' of the bridge from 24' to 36'.

The $5,375,000 in bonds to finance the bridge package have been sold by the state toll bridge authority.
DC 2-9. Previous report 12-20

● PIPE LINES— Brewster, Wash.

Bid opening time has been extended from 10 a.m. to 1 p.m., February 21, by Bureau of Reclamation, Bridgeport, for construction of pipe lines for Brewster Flat distribution system, Brewster Flat Irrigation District, near Brewster, Okanogan County, Wash.; DC-4829. Specifications with above office.
SP 2-9. Previous report 2-6

■ REINFORCED CONCRETE RESERVOIR— Cashmere, Wash.

Additional planholders announced for construction of a 500,000-gallon reinforced concrete reservoir in Cashmere. Bids will be opened 8 p.m., February 25, by Earl Barnes, town clerk, Town Hall, Cashmere. Plans and specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.

Planholders: John B. Knowles, 1040 Monroe St., Wenatchee; Pacific Water Works, 2900 S. 1st, Seattle; Chicago Bridge & Iron, 1318 4th Ave., Seattle; Murphy Bros., E. 3728 Broadway, Spokane; Soule Steel Co., 4100 W. Marginal Way, Seattle; Hallgren Co., 1252 1st Ave. S., Seattle; Big Bend, 712 Randolph Place, Seattle; United Construction Co., 325 N. Church St., Montesano; Joe E. Venne, 507 12th St., Sunnyside; Pacific Concrete Co., 10401 N.E. Marx, Box 7616, Portland; Joe Lundberg Construction Co., 3420 13th S.W., Seattle; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata; H. D. Fowler Co., Box 3084, Seattle; Marine & Industrial Supply, Inc., Pier 50, Seattle.
IG 2-9. Previous report 1-25

LIGHTING IMPROVEMENTS— Chewelah, Wash.

(Estimated cost $30,000)

Plans announced by Roy Richmond, supervisor of utilities, Chewelah, for lighting improvements, including later type standards and 20,000 lumen strength illuminators in the business district and 10,000 lumen strength in the residential area, at Chewelah. Work will start in May and the area to be covered in 1957 embraces ten blocks east to west and three blocks north to south. Present plans call for the city lighting crew to be in charge of the work. MH 2-13

CEMENT CONCRETE BRIDGE— Duval, Wash.

Bids will be called about March 1 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of a cement concrete bridge over the North Fork of the Tolt River, about two miles east of Duval. Plans are being completed by Cecil Arnold, Arctic Bldg., Seattle, consulting engineer on the project for city engineering department. The city council has approved an appropriation of $115,000 for the project. GW 2-2

▲ WATER PIPE— Edmonds, Wash.

Bid received by City Council, City Hall, Edmonds, for furnishing approximately 2,400' of 6" mechanical joint cast iron water pipe. Bids opened February 5. Specifications by James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. LOW BID: U.S. Pipe & Foundry Co., Colman Bldg., Seattle, $4,716.
PD 2-13. Previous report 1-5

LOCAL UTILITY DISTRICT—Everett, Wash.

Public hearing was held February 6 by Snohomish County PUD No. 1, 3030 Colby, Everett, concerning organiation of a local utility district for construction and equipment of a distribution system. Lack of sufficient signatures caused the PUD to drop the project for lack of support.
HH 2-13. Previous report 1-19

COMMUNICATIONS CONDUIT AND MANHOLES— Fort Lewis, Wash.

Bids will be called soon for opening about March 20 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of 10,000' of 2- to 4-duct bank communication conduit and construction of manholes and pull boxes at Fort Lewis; ENG-45-108-57-106. Completion time 150 calender days. Work includes excavation, filling and backfilling and removal and replacement of pavement. SP 2-13

★ BITUMINOUS PAVEMENTS— Fort Lewis, Wash.

Award to only bidder, J. D. Shotwell, 3113 S. Pine, Tacoma, $19,682, by Department of Army, purchasing and contracting office, Fort Lewis, for overlayment of bituminous pavement at Ordnance Ammunition Storage Area, Fort Lewis, Wash.; AVI-45-016-57-112.
GW 2-8. Previous report 1-30

■ PIPE AND FITTINGS— Friday Harbor, Wash.

Planholders announced for furnishing 2,000', 8" class 150 cement-asbestos pipe; 2,700', 6" same; 1,100', 4" same and miscellaneous fittings for the town's water distribution system. Bids will be opened 9 p.m., February 21, by Town Council, Town Hall, Friday Harbor. Specifications with Carey & Kramer, consulting engineers, Alaska Trade Bldg., Seattle. Installation will be by the town water department.

Planholders: Industrial Iron Works, 6011 S.W. Macadam Ave., Portland, Ore.; Johns-Manville Sales Corp., 777 Thomas, Seattle; H. D. Fowler, 901 Lane, Seattle; Pacific Waterworks Supply Co., 2900 1st Ave. S., Seattle. GW 2-12. Previous report 2-5

▲ WELL, PUMP PLANT, WATER STORAGE SYSTEM—Ice Harbor Lock and Dam, Wash.

Bids received by Corps of Engineers, Walla Walla District, Bldg. 602, City County Airport, Walla Walla, for drilling and developing a water well and constructing a pump plant and water storage and supply systems at Ice Harbor Lock and Dam, Walla Walla County, Wash.; CIVENG-45-164-57-42. LOW BID: C. J. Montag & Sons, 7805 N.E. Halsey, Portland, Ore., $93,803. OTHER BIDS: George A. Grant, Box 764, [illegible] $96,491; Lewis Hopkins Co., 221 S. 3rd [illegible] $103,106; Wayne Construction Co., [illegible] Stoneway, Seattle, $105,629. Bids [illegible] February 7.
GW 2-8. Previous report [illegible]

RAILWAY RELOCATION, ACCESS ROAD— Ice Harbor Lock and Dam, W[illegible]

Bids will be called about February [illegible] opening about March 14 by Corps of [illegible] neers, Walla Walla District, Bldg. 602, [illegible] County Airport, Walla Walla, for relo[illegible] of about 5.5 mi. S.P.&S. Railway and [illegible] struction of about ¾ mi. paved access [illegible] Ice Harbor Lock and Dam, Walla Walla [illegible] Franklin counties, Wash.; CIVENG-45-[illegible] 57-56. Specifications with above office [illegible] bids are called.

RAILWAY RELOCATION: Includes [illegible] vation and embankment for subgrade; [illegible] laying and ballasting; track removal; [illegible] gravel stabilization of blow and areas; [illegible] tures to include reinforced concrete [illegible] structural steel underpass structure and [illegible] verts with and without reinforced [illegible] headwalls. ACCESS ROAD: Includes [illegible] vation and embankment for relocated [illegible] road subgrade; base, leveling and [illegible] courses; prime coat and double bitumi[illegible] pavement; guard rails, guide posts and [illegible] signs; fencing. SP [illegible]

● TIMBER BRIDGE— King County, W[illegible]

Bids to be opened 2 p.m., February [illegible] by U.S. Forest Service, Frank Wallach, [illegible] gional supply officer, 729 N.E. Oregon [illegible] Portland, for construction of Money Cr[illegible] Bridge on Lowe Creek Road No. 2612 [illegible] proximately one mi. from King Cou[illegible] Road, Snoqualmie National Forest, K[illegible] County, Wash.; Inv. No. 179. Bridge is [illegible] long and of treated timber construc[illegible] Plans with supply officer, or with Supe[illegible] visor, Snoqualmie National Forest, 415 Fe[illegible] eral Office Bldg., Seattle. WB [illegible]

PUMPS AND MOTORS— Kirkland, Wa[illegible]

Bids will be called early in March [illegible] King County Water District No. 81, P[illegible] Kidder, secretary, water district offi[illegible] Journal Bldg., Kirkland, for furnishing [illegible] centrifugal pumps and motors for wat[illegible] of the water system. Specifications [illegible] Harry Sisler, water district engineer, [illegible] Journal Bldg., Kirkland. GW [illegible]

★ STEEL STANDPIPE, ACCESSORIES— Kirkland, Wa[illegible]

Award to Chicago Bridge and Iron C[illegible] White-Henry-Stuart Bldg., Seattle, $6[illegible] by King County Water District No. 81, P[illegible] Kidder, secretary, Journal Bldg., Kirkla[illegible] for furnishing and erecting a 500,000-ga[illegible] standpipe and accessories, for ULID No[illegible] Plans by Harry Sisler, district engineer, [illegible] Journal Bldg., Kirkland.
GW 2-9. Previous report [illegible]

● NILLES CORNER SUBSTATION— Leahy, Wa[illegible]

Bids will be opened 2 p.m., March 1, [illegible] Bonneville Power Administration, 1002 N[illegible] Lloyd Blvd., Portland, for construction [illegible] the Nilles Corner substation, 6 mi. north [illegible] Leahy, Douglas County, Wash.; Inv. No. 6[illegible] Specifications with above office. $25 [illegible] posit. Bid bond 25%.

Quantities: 1,100 c.y. excavation and gr[illegible] ing; 150 c.y. structural excavation; 24 c[illegible] reinforced concrete footings; 12,800 lb. st[illegible] erection; 480' fabric fencing with curb; [illegible] stallation of station equipment; 195 sq. [illegible] concrete sidewalks; 220 c.y. crushed ro[illegible] painting; 40' corrugated metal pipe culver[illegible] 700' control cable; 240' barbed wire fe[illegible] SP [illegible]

★ LEVEE IMPROVEMENTS— Longview, Wa[illegible]

Awards announced by Cowlitz Coun[illegible] Consolidated Improvement District No. [illegible] Longview Library Bldg., for projects 2 and [illegible] involved in a series of levee improvem[illegible] projects scheduled for this year. AWARDS: [illegible] Earl Richardson, 808 S. 11th Ave., Kels[illegible] $3,382 (project 2); Archie Radakovich, Lon[illegible] view, $24,00 (projects).
PD 2-13. Previous report [illegible]

★**DUMP TRUCK—** **Lynden, Wash.**

Award to Valley Motor, Lynden, $3,060, for a 2-ton dump truck for city use in Lynden. Bids opened February 4.

PD 2-13. Previous report 1-15

●**SITE CLEARING—** **Maple Valley, Wash.**

Bids to be opened 2 p.m., March 7, by Tahoma School District No. 409, King County, Lloyd Priebe, superintendent, Route 1, Box 276, Maple Valley, for clearing of a 10-acre tract for the proposed Tahoma Elementary School building to be located on the Maple Valley-Hobart Road in Maple Valley. Specifications with Mallis & DeHart, architects, 631 Lyon Bldg., Seatle. Certified check, cashier's check or bid bond 5%.

GW 2-13

★**PUMP CONTROL SYSTEM—** **Moses Lake, Wash.**

Awards announced by City Council, City Hall, Moses Lake, for construction of an automatic pump control system for Moses Lake. Plans and specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. AWARDS—ALT. A: Bumstead & Woolford Co., 1411 4th Ave. Bldg., Seattle, $7,084. ELECTRICAL REVISION, MAIN LIFT: Picatti Bros., 105 S. 3rd Ave., Yakima, $981.

IG 2-13. Previous report 2-7

■**STATE HIGHWAY PROJECTS—** **Olympia, Wash.**

Planholders announced on highway construction for which bids will be opened 10 a.m., February 19, by Washington State Highway Commission, Transportation Bldg., Olympia.

ROAD, BRIDGE—JCT. PSH No. 1—Clearing, draining, grading and constructing a reinforced concrete box girder bridge on 4.200 mi. PSH No. 2, Jct. PSH No. 1 to N.P. Railway Overcrossing, King County; FAP No. F-046-1(5).

PLANHOLDERS: Lockyear & White, Inc., Box 687, Longview; John E. Alexander, 17295 15th N.W., Seattle; J. E. Collins & Co., 1314 E. 43rd, Seattle; Donald M. Drake Co., 1600 N.W. Savier, Portland, Ore.; Peter Kiewit Sons' Co., Box 1777, Vancouver; S. S. Mullen, Inc., 621 9th N., Seattle; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Thomas Scalzo, 3211 Airport Way, Seattle; Snook Bros., Box 667, Goldendale; J. N. Conley, 4332 N.E. Royal Court, Portland; Erickson Paving Co., Route 2, Box 2155, Bellevue; Fiorito Bros., 1100 Leary Way, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Northwest Construction Co., 3950 6th N.W., Seattle; Scarsella Bros., 2207 S. 146th, Seattle; P. J. Anderson & Sons, 13501 Aurora, Seattle; Osberg Construction Co., 1132 N. 128th, Seattle; Associated Sand and Gravel Co., 2508 Colby, Everett; MacRae Bros., 5900 1st S., Seattle; Soule Steel Co., Box 3685 Terminal Annex, Seattle; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; J. P. Surace, 3238 Seaview, Seattle; Frey Nygren, 3212 Government Way, Seattle.

MARTIN WAY OVERCROSSING — Construction of a reinforced concrete box girder bridge on 0.052 mi. PSH No. 1, Thurston County; FAP No. 1-001-2(47).

Planholders: Graystone of Olympia, 1000 N. Washington, Olympia; Lockyear & White, Inc., Box 687, Longview; Sawyer Construction Co., Route 3, Box 298, Tacoma; John E. Alexander, 17295 15th N.W., Seattle; J. E. Collins, 1314 E. 43rd, Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; Northwest Steel Rolling Mills, Inc., Seattle; Snook Bros., Goldendale; Pakar Construction Co., Box 447, Chehalis; Troy T. Burnham, 18666 Beverly Road, Seattle; Nelson Construction Co., 3504 N. Monroe, Tacoma; Wilson & Simpson, Box 1070, Port Angeles; MacRae Bros., Seattle; Owen Bros., Railroad and Oak streets, Port Angeles; Soule Steel Co., Seattle; Valley Construction Co., 6100 N.E. Columbia Blvd., Portland.

TOP SOIL—LACAMAS TO TUMWATER—Placing top soil on 29.952 mi. PSH No. 1, Lewis and Thurston counties; FAP No. 1-001-2(48), involving about 47,315 c.y. top soil.

Planholders: Excavators, Inc., 5756 29th N.W., Seattle; C. W. Thomas & Son, Box 402, Winlock; Sjoboen Bros., 3205 Hoadley Road, Olympia; M. L. Wood, 10902 S.E. 181st, Renton; J. N. Conley, Portland; Keizer Sand and Gravel Co., 5205 Windsor Island Road, Salem, Ore.; R. L. Moss & Co., Box 36, Zenith; Alvin McClain and Dick Osaka, Box 273, Melton; Pacific Sand and Gravel Co., Box 628, Centralia; Seaman, Inc., 11312 S. I St., Tacoma; Stoen Construction Co., 2210 E. 95th, Seattle; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Russell J. Boe, 9685 Empire Way, Seattle; J. D. Dutton, Route 6, Box 327D, Olympia; Kent & Tucker, Inc., 1431 13th N.W., Bellevue; Cascade Hauling Co., 1111 N. Pearl, Centralia; Lake City Gravel and Materials Co., 10728 Bothell Way, Seattle; Beuter & O'Neil, Napavine; J. T. Graham & Co., 2252 Snively Ave., Chehalis.

ROAD — PE ELL - McDONALD ROAD — Clearing, draining, grading and surfacing with crushed stone on 1.642 mi. of a Lewis County road; FAS No. S-1208(1).

Planholders: Strong & Macdonald, Inc., Tacoma; C. W. Thomas & Son, Box 402, Winlock; Russell J. Boe, Seattle; Archie Radakovitch, 1203 S. 4th, Kelso; J. M. Bruch Co., Route 3, Box 504, Port Angeles; J. N. Conley, Portland; Henry H. Miller, Contractors, Inc., 2191 N.E. Stephens, Roseburg, Ore.; Pacific Sand and Gravel Co., Centralia; I. M. Saimons, Route 1, Box 788, Alderwood Manor; Stoen Construction Co., Seattle; P. J. Anderson & Sons, Seattle; Lake City Gravel and Materials Co., 10728 Bothell Way, Seattle; Sjoboen Bros., 3205 Hoadley Road, Olympia.

HALL AND BLUE CREEK BRIDGES — Construction of two reinforced concrete flat slab bridges on 0.036 mi. Stevens County roads; FAS Nos. S-1233(1) and S-1235(1).

Planholders: Lockyear & White, Inc., Longview; Fred Nygren, 3212 Government Way, Seattle; Sather & Sons, N. 1410 Howe, Yardley; Snook Bros., Goldendale; Wilson & Simpson, Box 1070, Port Angeles; Murphy Bros., Inc., Spokane; Allyn & Noah Construction Co., 14242 Pacific Highway S., Seattle; Soule Steel Co., Seattle.

STOCKPILING—PINE CREEK—Stockpiling crushed stone surfacing, maintenance rock and mineral aggregates on SSH No. 3-H, Pine Creek and Waverly Junction vicinities, Whitman and Spokane counties; a State Project, involving 41,600 ton crushed materials.

Planholders: Frank G. Baulne, Inc., 5305 E. Boone Ave., Yardley; Materne Bros. Co., Box 7052, Spokane;1 Sather & Sons, Yardley; S. A. Sullivan, Box 37, Parkwater Station, Spokane; E. R. Hewett Co., E. 5916 Baldwin, Spokane; Cherf Bros., Inc., and Sandkay, Inc., Box 938, Ephratta.

BLOCK 87 FEEDER ROADS — Draining, grading and surfacing with crushed stone surfacing on 7.948 mi. Adams County roads; a State Project.

Planholders: Frank G. Baulne, Inc., Yardley; Baterne Bros. Co., Spokane; Louis Schaefer, Box 1186, Quincy; D. A. Sullivan, Spokane; P. J. Anderson & Sons, Seattle; Glenn Dusky, Box 1156, Moses Lake; J. W. Hardison, Box 48, Yakima; Murphy Bros., Inc., Spokane; Cherf Bros., Inc., and Sandkay, Inc., Ephrata; Carl Hohner, E. 6308 Sharpe Ave., Spokane; Kent & Tucker, Inc., 1431 13th Ave. N.E., Bellevue; Leo J. Lavin, Coulee City.

DM 2-12. Previous report 2-1

SEWAGE DISPOSAL PLANT— **Pacific Beach, Wash.**

(Estimated cost $45,000 to $50,000)

A consulting engineering firm has advised Grays Harbor County Commissioners, Courthouse, Montesano, that construction of a lagoon-type disposal plant would be feasible and most economical for the enlarged system made necessary by establishment of the 100-man Navy station at Pacific Beach. The engineers favored locating the lagoon at a gravel pit ¾ of a mile out of the community as it would require no outlet or chlorination. An alternate location would be west of Joe Creek near the highway bridge. Total cost would include $15,000 to $17,000 for extending the sewer lines to serve new areas, including the Naval station. Federal aid funds could be sought on the estimated $33,000 cost of the lagoon and pressure line leading to it.

SC 2-9

▲**FENCING—** **Paine AFB, Wash.**

Bids received by U.S. Air Force, Purchasing & Contracting Office, Paine AFB, for installation of security fencing at the base; Inv. No. 45-602-57-28. Bids opened February 6. LOW BID: D & A Construction Co., 1113 N. 100th, Seattle, $6,925. OTHER BIDDERS: Anchor Post Fence Division, Anchor Post Products, 4502 14th N.W., Seattle, $8,143; San Jose Steel Co., 7034 15th N.W., Seattle, $8,189; Cyclone Fence Department, American Steel & Wire Division, U.S. Steel Corp., 1150 Fairview N., Seattle, $8,274.

HH 2-8. Previous report 1-19

SEWAGE TREATMENT PLANT— **Palouse, Wash.**

The U.S. Government has just allocated $25,487 as its share toward an $84,958 sewage treatment plant to be constructed at Palouse. The funds will come from the Department of Health, Education and Welfare. Also, the Palouse City Council has accepted the bids of the State of Washington finance committee for sale of $30,000 general obligation bonds as another step in financing the project. This now enables the City of Palouse to award the contract for the project on which bids were opened January 8. Low bidder at that time was Hefte Construction Co., E. 11607 Trent, Spokane, $79,995. Plans and specifications by Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane.

MH 2-13. Previous report 1-12

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● GENERATOR PLANT INSTALLATION— Port Angeles, Wash.

Bids will be opened 2 p. m., March 8, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for installation of diesel engine-driven generator plant and accessories at U. S. Coast Guard Air Station at Port Angeles; Bid No. FS-1536. Specifications with above office. Bid bond 5%. SP 2-12

WATER PIPE REPLACEMENT— Port Townsend, Wash.

(Estimated cost $160,000)

Plans underway by Keith F. Jones, city engineer, City Hall, Port Townsend, for replacement of all wood pipe, including 10", 12" and 16" main lines, involved in the water system at Port Townsend. Work will start soon and will be completed this year.

MH 2-13

■ STEEL GIRDER SPAN BRIDGE— Preston, Wash.

Planholders announced for construction of steel girder span bridge with timber approaches, over the Raging River, at Preston, Wash. Bids will be opened 9:30 a. m., February 25, by King County Commissioners, room 402 County-City Bldg., Seattle. Plans with D. L. Evans, county road engineer, room 905 County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: R. C. James & Son, Box 743, Bellevue; General Construction Co., 3840 Iowa, Seattle; American Pile Driving Co., Pier 2, Everett; Louis Elterich Co., Box 368, Port Angeles; Dale M. Madden, 3010 E. 163rd, Seattle; Marine and Industrial Supply, Inc., Pier 50, Seattle; The Steel Construction Co., 5300 N.W. Front, Portland, Ore.; United Concrete Pipe Corp., Box 467, Auburn; Bethlehem Pacific Coast Steel Corp., 8501 E. Marginal Way, Seattle; Prepakt Concrete Co., 300 12th Ave., Seattle.

GW 2-9. Previous report 2-1

WATER SYSTEM EXPANSION— Pullman, Wash.

Plans approved by City Council, City Hall, Pullman, for a three-year expansion and improvement plan for the city's water system, providing financing can be arranged. This will require the floating of a probable $400,000 revenue bond issue, according to Joseph A. Street, city supervisor, City Hall. The following are basic phases included in the report submitted by Chet Waggener, city engineer, City Hall.

1—Construction of a 3,000,000-gallon reservoir on Pioneer Heights. 2—Installation of the necessary pipelines so that three high tanks can be erected on Sunnyside Hill, Military Hill and Landis' Addition. 3—Construction of the three tanks and completion of tie lines to separate the high and low level systems of supply (this last phase probably to be done in 1959). Tanks are planned with capacities of 30,000 gal. (Landis' Addition), 100,000 gal. (Sunnyside Hill) and 200,000 gal. (Military Hill). The plan in its intermediate stage calls for installation of about one mi. of 8" mains as leads from the new high tanks and the addition of larger mains than now exist in several parts of the city.

MH 2-13. Previous report 6-27, 1956

★DIESEL GRADER— Redmond, Wash.

Award to Howard-Cooper Corp., 5055 4th St., Seattle, $10,310, by Town Council, Town Hall, Redmond, for one new tandem drve diesel powered grader having a minimum of 50 hp and minimum weight of 13,000 lb.

SP 2-8. Previous report 1-15

▲BACKSTOPS, FENCES— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing a base ball backstop and wing fences at Delridge Playfield 4545 Delridge Way, Seattle, (Delridge and Genessee). LOW BIDS: Colorado Fuel and Iron Corp., Pacific Coast Division, 3434 2nd Ave. S., $3,000; Cyclone Fence Department-American Steel and Wire Division, U.S. Steel Corp., 1150 Fairview Ave. N., $3,100; Anchor Post Fence Division, Anchor Post Products Inc., 4502 14th Ave. N.W., $3,127. All of Seattle. Bids opened February 7

GW 2-8. Previous report 1-18

SANITARY SEWERS— Seattle, Wash.

Bond election to be held March 12 by Ronald Sewer District, on two propositions one for $600,000 general obligation bonds, and the other for $4,700,000 revenue bonds which will finance construction of sanitary sewers, sewage treatment plant and outfall in Seattle. Preliminary plans have been completed by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. The bond isues were defeated at the November 6 election. GW 2-13. Previous report 11-9

STORM SEWERS— Seattle, Wash.

Property owners approved an increase in assessment after the hearing in connection with the construction of storm sewers in the Inverness Drive area, north of the Sand Point Golf and Country Club, in Seattle. City council will recommend the award of contract by Roy W. Morse, city engineer, at the Board of Public Works meeting, 2 p. m., February 13. Low bidder was Valley Construction Co., 7722 Rainier Ave., Seattle.

GW 2-13. Previous report 2-2

SEWERS— Seattle, Wash.

Preliminary design completed by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle, for construction of sewers in ULID No. 2, Southwest Suburban Sewer District. William Moshier, secretary, district office, 864 S.W. 136th, Seattle. A hearing is scheduled for May. This is the second phase of the distrtict's sewer program. Work on the first section, under ULID No. 1 is, underway. GW 2-7

● ANCHORAGES, FRAMES AND PARTS— Seattle, Wash.

Bids to be opened 10 a. m., March 11, by City Council, Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing anchorages, frames and appurtenant parts for two 47'x50.32' regulating gates. Specifications with city purchasing department, above address. GW 2-8

● STREET IMPROVEMENTS—Seattle, Wash.

Bids to be opened 2 p. m., February 20, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for cement concrete or asphaltic concrete paving of 50th Ave. S.W. from Sunset Ave. to approximately 140' south of W. Walker, Seattle; LID No. 6146. Plans with Roy W. Morse, city engineer, room 404, County-City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: clearing and grubbing; 200 c.y. embankment earthwork and subgrading; 440 c.y. excavation; 30 sq. yd. removing concrete sidewalks; 380 sq. yd. concrete sidewalk; 50', 4" sidewalk drains; 25 sq. yd. alley crossing; 100 sq. yd. private driveways; 35 lb. reinforcing steel; 40' beam guard rail; 110', 8" pipe sewer; 20', reconnecting 6" side sewer; 260' excavation and backfill for 8" cast iron pipe water main; 200 lb. special castings. ALTERNATE A—Cement contract paving: 770' integral curb type A; 1,220 sq. yd. concrete pavement 6" thick. ALTERNATE B—Asphaltic concrete paving: 770' integral curb type A, 7" face; 1,220 sq. yd. cl. 3 concrete base 5; thick; 1,220 sq. yd. asphaltic concrete pavement 2" thick.

GW 2-8

● ASPHALTIC CONCRETE OR CEMENT CONCRETE PAVING— Seattle, Wash.

Bids to be opened 2 p. m., February 20, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for asphaltic concrete or cement concrete paving on five city streets and three alleys in LID No. 6145. The area covered follows: N. 45th from Greenwood to Palatine on the south; Palatine from N. 45th to N. 43rd; N. 43rd and Palatine to 1st Ave. N.W.; 35th N.W., from approximately 85' north of W. 65th to approximately 85' south of W. 66th; the alley in Block 3, Sound Addition to Ballard, between W. 65th and W. 66th from 34th to 35th N.W.; the east alley, in Block 10, Hillman's Lake Front Addition (division No. 1) between Aurora and Linden fr... N. 70th to N. 71st; Queen Anne Ave. fr... W. Etruria to W. Florentia; alley Blocks ... and 62 Denny and Hoyts Addition, bet... W. Etruria and W. Florentia, from 3rd A... W. to Queen Anne Ave. Plans with Roy ... Morse, city engineer, room 404 County-C... Bldg., Seattle. $10 deposit. Certified ... cashier's check or bid bond 5%.

Quantities: 1,065 c.y. earthwork, subgrading embankment 1055; 665 sq. yd. concr... sidewalks; 15 sq. yd. removing sidewal... 100', 4" sidewalk drains; 1,730 sq. yd. ... crete alley pavement 6" thick; 240 sq. ... private driveways; 75 sq. yd. concrete ... crossings; 1,825' grading parking strips; ... concrete stairway; 22' stairway railing; 3... 8" sewer pipe; 19 wyes; 100', 6" side se... connection; 120' reconnecting 6" side se... connection; 180', 6" sewer pipe connec... for catch basins; 100 lb. reinforcing st... 300 lb. shackle rods; 20 ton crushed ro... surfacing. ALTERNATE A—Cement conc... pavement: 3,220' integral curb type ... 4,325 sq. yd. cement concrete pavement ... thick; 5 c.y. extra under pavement. ALTE... NATE B—Asphaltic concrete pavem... 3,220' integral curb type A, 7" face; ... sq. yd. class 3 concrete base 5" thick; ... sq. yd. asphaltic concrete pavement 2" thi... 4 c.y. extra under base.

GW ...

▲LINE TRUCK BODIES— Seattle, Was...

Bids received by Paul R. Hendricks, ... purchasing agent, room 511, County-C... Bldg., Seattle, for furnishing two line tru... bodies and two hydraulic derricks ... above. LOW BIDS: Robblee Utilities Equi... ment Co., 3423 4th Ave. S., $7,116 (bodies ... $5,746 (derricks); Truck Welding and Equi... ment Co., 739 9th Ave. S., $7,700, $2,... Washington Truck Equipment Co., 3628 A... port Way, bid a combined bid of $10,... All of Seattle. Bids opened February ...

GW 2-8. Previous report ...

● ASPHALTIC CONCRETE PAVING— Seattle, Was...

Bids will be opened 2 p. m., February ... by Board of Public Works, E. G. Henr... secretary, room 512, County-City Bldg... Seattle, for asphaltic concrete paving o... seven city streets in LID No. 6144. Th... area covered is as follows: 46th Ave. S.W... from W. Hinds to W. Stevens; 47th Ave. S.W... from W. Hinds to W. Hanford; 54th Ave... S.W. from W. Genesee to W. Oregon; W. Han... ford from 46th S.W. to 47th S.W.; W. Hind... from 45th S.W. to 47th S.W.; W. Edmund... from 35th S.W. to 37th S.W.; W. Dawso... from 48th S.W. to 49th S.W. Plans wth Ro... W. Morse, city engineer, room 404 County-City Bldg., Seattle. $10 deposit. Certifie... check, cashier's check or bid bond 5%.

Quantities: 8,600' integral curb type A... 12,400 sq. yd. concrete pavement, 6" thick... 10 c.y. extra concrete under pavement; 8,60... integral curb type A, 7" face; 12,400 sq. yd... class 3, concrete base 5" thick; 12,400 sq. yd... asphaltic concrete pavement 2" thick; clearing and grubbing; 2,400 c.y. earthwork and subgrading embankment 295; 20 sq. yd. re... moving concrete pavement; 120' removing integral concrete curb; 800 sq. yd. concrete sidewalks; 200 sq. yd. removing concrete sidewalks; 200', 4" sidewalk drains; 500 sq. yd. private driveways; 175 sq. yd. alley crossings; 7,500' grading parking strips; 2... lb. reinforcing steel; 20 catch basins; 60', 8... sewer pipe; 560', 6" sewer pipe drain, shallow type; 60' sewer pipe connection; 1,350' excavation and backfill for 8" cast iron pipe water main; 1,350' 8" cast iron pipe class 15... water main; 31, 2" blow-offs; 20', 6" cast iron pipe class 150 hydrant connection; 50 lb. shackle rods; 200 lb. special castings; 10 c.y. rock excavation; 75 ton crushed rock surfacing; 5 ton crushed rock in place.

GW 2-...

★ASPHALT CONCRETE, PLANTMIX— Seattle, Wash...

Awards by King County Commissioners. W. R. Carroll, county purchasing agent, room 606, County-City Bldg., Seattle, for furnishing asphaltic concrete and MC-3 plantmix for the year January 1 to December 31, for various sites. AWARDS: Washington Asphalt Co., 309 W. 39th, Seattle; Rainier Asphalt Paving Co., Maple Valley Highway...

Renton; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; Acme Construction Co., 722 13th Ave., Seattle, to supply various amounts as required during the year. No figures given.
GW 2-9. Previous report 12-18

●HEAT EXCHANGERS— Seattle, Wash.

Bids to be opened 10 a. m., February 28, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing heat exchangers for Gorge Power House generators, Nos. 2, 22 and 23; Spec. No. 1469. Specifications with city purchasing department, above address. GW 2-9

★FIR LUMBER— Seattle, Wash.

Award to Webster Lumber Hills, 600 W. Nickerson, Seattle, $1,267, by Paul R. Hendricks, city purchasing agent, room 511, County-City Bldg., Seattle, for furnishing 1,500 piece of construction grade fir lumber.
GW 2-9. Previous report 2-1

★AUTOMATIC SPRINKLERS— Seattle, Wash.

Award to Grinnell Co. of the Pacific, Elliott and Bay, Seattle, $1,991, by King County Commissioners, W. R. Carroll, county purchasing agent, County-City Bldg., Seattle, for furnishing all labor and materials necessary to install automatic dry pipe sprinklers at King County Hospital, 325 9th Ave., Seattle. GW 2-9. Previous report 1-8

★EXHAUST VENTILATION DUCT WORK— Seattle, Wash.

Award to only bidder, Occidental Sheet Metal Co., Inc., 2106 Rainier Ave., Seattle, $372, by King County Commissioners, W. R. Carroll, county purchasing agent, County-City Bldg., Seattle, for exhaust ventilation duct work at King County Hospital, 325 9th Ave., Seattle. GW 2-9. Previous report 1-8

■LATERAL SEWERS— Seattle, Wash.

Planholders announced for the relaying of lateral sewers in ULID No. 1., King County, south of the south city limits on 4th Ave. S., between S.W. 156th and S.W. 160th. This is contract J of the lateral sewers now under construction in ULID No. 1. Bids will be opened 3 p.m., February 21, by Southwest Suburban Sewer District, William E. Conley, secretary, 864 S.W. 136th, Seattle. Plans with Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. $2.50 deposit. Certified check. 5%.

Planholders: Superior Construction Co., 4610 37th Ave. S.W.; Power Construction Co., 1523 21st Ave. S.; Hanson Construction Co., 12701 Palatine Ave.; Murphy Bros., Box 132 Mercer Island. All of Seattle unless other wise stated. GW 2-12. Previous report 2-7

■CHLORINATING STATIONS— Seattle, Wash.

Planholders announced for construction of four new chlorinating stations and for alterations to two existing stations to provide housing for chlorinating equipment. Bids will be opened 2 p.m. February 20, by Board of Public Works, E. G. Henry, secretary, room 512, County City Bldg., Seattle. Plans by Hammond, Collier & Isaac, consulting engineers, 4010 Stone Way, Seattle, for city water department, and obtainable from Ray J. Heath, water superintendent, room 323, County City Bldg., Seattle. $25 deposit. Certified check, cashier's check or bid bond 5%.

Planholders; Scheumann & Johnson, 1001 Lloyd Bldg.; Don Williams & Co., 314 Fairview Ave. N.; Pacific Waterworks Supply Co., 2900 1st Ave. S.; Rassmussen & Funk Co., Box 7061; Clair E. Prescott, 3516 Airport Way; C. P. Construction & Co., 1819 Jackson; Baugh Construction Co., 922 Poplar Place; C & R Builders Inc., 1619 8th Ave.; Zeeb Iron Works, 1528 Alaskan Way. All of Seattle.
GW 2-12. Previous report 2-2

HIGHWAY CONSTRUCTION— Snohomish County, Wash.

A highway budget figure of $2,432,358 has been announced for Snohomish County highway construction. The following are included in the planned projects: paving, grading and constructing a bridge on 12 mi. from Lake Stevens to Arlington on Highway 1-A; surveys and engineering studies for road between Arlington and Clear Lake; Deception Creek to the Chelan County line on U. S. 2; four-lane limited access road from Everett to Snohomish; road from Stanwood to the junction with State Highway 1-E near East Sanwood, 1½ mi. grading, surfacing and paving and constructing a crossing over Great Northern Railroad.
HH 2-13

●SUBSTATION TRACK EXTENSIONS, FOUNDATIONS— Snohomish, Wash.

Bids will be opened 2 p.m., February 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Snohomish substation spur and transfer track extension, foundations and site improvements, about ½ mi. north of Snohomish, Snohomish County, Wash.; Inv. No. 8280. Specifications with above office. $5 deposit. Bid bond 25%.

Quantities: 260 c.y. excavation and grading; 1,600 c.y. borrow; 200 c.y. structural excavation; 78 c.y. reinforced concrete footings; 300′ extension of spur and transfer track; 160′ fabric fencing with curb; 2,110′ wood drainage flumes; 350′ wood outlet flumes; 8″ drainage repair; 230′ drainage ditch reconstruction; 430′ new drainage ditch; 320 c.y. crushed rock. SP 2-12

★PAVING, CURBING, SEWER— Spokane, Wash.

Award announced by City Council, City Hall, Spokane, for paving and necessary curbing on Courtland Ave. from Napa St. to Perry St. in Spokane. Bids opened February 7. AWARD: Inland Asphalt Co., Box 4116 Station B, Spokane, $13,996. 2ND LOW: S & F Construction Co., Route 2, Box 188, Spokane, $14,075. 3RD LOW: United Paving Co., Inc., Route 1, Box 188S, Geiger Field Quarry, Spokane, $14,145.

The portion of this project involving construction of a sewer on Heroy Ave. from Stone St. to about 250′ west of Lacey St. in Spokane, on which bids were also to have been opened February 7, has been estimated at a higher cost and bids have been extended to February 21. See PCD this issue for the extended bid call. EM 2-9

●SEWER— Spokane, Wash.

Bid opening extended from February 7 to 9:30 a.m., February 21, by City Council, City Hall, Spokane, for construction of a sewer on Heroy Ave. from Stone St. to about 250′ west of Lacey St. in Spokane. Specifications with city engineer at above address. Certified check or surety bond 10%.

Quantities: 1,883 c.y. excavation; 392′ of 10″, 594′ of 8″ and 1,013′ of 4″ sewer pipe; 93 c.y. crushed rock (to be furnished and spread by Department of Public Works).
EM 2-9. Previous report 1-19 Paving, Curbing Sewer.

■WATER TANK AND TOWER— Spokane, Wash.

Planholders announced for the construction of a water tank and tower for the metallurgical plant, plancor No. 571, Section 21T2GN R32E WM. near Spokane, Wash.; Project No. CR-10-650. Bids will be opened 3 p.m., February 20, by General Services Administration, room 126, Federal Office Bldg., Seattle. Plans with construction and repair division, above address.

Planholders: American Pipe and Construction Co., 518 N.E. Columbia Blvd., Portland, Ore.; National Tank and Pipe Co., 2301 N. Columbia Blvd.; Portland, Ore.; Pittsburgh-Des Moines Steel Co., 901 Lane, Seattle; Federal Pipe and Tank Co., 6851 E. Marginal Way, Seattle; Chicago Bridge and Iron Co., White-Henry-Stuart Bldg., Seattle.
GW 2-12. Previous report 2-6

●FIRE HOSE— Stanwood, Wash.

Bids will be opened 8 p.m., March 4, by Lawrence Stovner, city clerk, City Hall, Stanwood, for furnishing 200′ of 2½″ and 150′ of 1½″ treated double jacket rubber lines fire hose. Specifications with above office. SC 2-12

COMPRESSOR STATION— Sumas, Wash.
(Estimated cost $2,000,000)

Construction on the proposed compressor station at 2855 Jones Road near Sumas by Pacific Northwest Pipeline Corp. will consist of installation of four 2,000 hp Ingersoll-Rand gas engine compressor units together with necessary auxiliary facilities and appurtenances. Announcement that work would start in the near future was made early February (PCD 2-2). The pipeline corporation's main office is in Salt Lake City, P. O. Box 1526. Construction contract according to local sources, has been let to Hydrocarbon Construction Corp., 4606 Main St., Houston, Texas. The contractor will have an office at the job site.

The property which is located in a rural arear near Sumas, fronts to the south on Jones Road and consists of 42.53 acres having the approximate dimensions of 2,050′ long by 900′ wide. Five steel fabricated buildings to house the compressor units will be erected. The structures will be covered with either corrugated galvanized iron or corrugated transite. The main compressor building will be 44′x117′, auxiliary building 30′x64′, compressor station fuel meter building 18′x30′, gas purchase meter area 18′x60′, office building 30′x60′.

Included in the installation will be high pressure gas piping, low pressure utility piping, piling and concrete foundations, high pressure air starting system, oil storage, gas engine generators, heating boiler, switchboard for distribution of electrical current, water pumping facilities, necessary lighting, office facilities, high pressure gas measuring station, necessary roads, sidewalks, final plant grading and landscaping.
ET 2-9. Previous report 2-2

▲UNDERGROUND VAULT—Tacoma, Wash.

Bids received by Board of Contracts and Awards, 404 City Hall, Tacoma, for construction of an underground vault CL 1022 at E. 11th and Cliff Ave., in Tacoma. LOW BIDS: Rome Co., 3721 S. Tacoma Way, $4,079; E. Goettling & Son, 2921 S. J, $5,122; Concrete Construction Co., 2015 Center, $5,400. All of Tacoma. Bids opened and held under advisement February 4.
GW 2-8. Previous report 1-26

▲WATER MAINS— Tacoma, Wash.

Bids received by Board of Contracts and Awards, 404 City Hall, Tacoma, for construction of 6″ cast iron water mains in LID No. 5282, and construction of 6″ and 12″ cast iron water main in LID No. 5283, in Tacoma. There were two alternate proposals on each LID. LOW BIDS—LID No. 5282: Paine & Gallucci, 1521 S. Grant, $4,442 (alt. 1), $4,362 (alt. 2); Milone & Tucci, 3215 S.M , $4,514, no bid; Rogers Construction Co., $5,495, $5,697. LID No. 5283: Paine & Gallucci, $8,585, $8,400; Milone & Tucci, $8,532, no bid; Rogers Construction Co., $9,505, $9,505. Bids opened and held under advisement February 4. GW 2-8. Previous report 1-30

★TEST SET— The Dalles Dam, Wash.

Award to Westinghouse Electric Co., 309 S.W. 6th Ave., Portland, $2,929, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for one high potential test set and one sphere gap voltage measuring device, fob. The Dalles Dam, Wash.; CIV-ENG-35-026-57-152.
WB 2-9. Previous report 1-17

STREET IMPROVEMENT—Toppenish, Wash.

Public hearing will be held 8 p. m., March 5, in the city courtroom, by City Commission, Courthouse, Toppenish, concerning the improvement of Madison Ave., S. Juniper St., S. Beech St., and others in Toppenish. Improvements would include construction and installation of bituminous pavement, combined concrete curb and gutters and storm drains. IG 2-13

●STATE HIGHWAY PROJECT— Tumwater, Wash.

Bids will be opened 10 a.m., February 28, in the office of J. C. Claypool, district engineer for Washington State Highway Commission, Tumwater, for a highway construction project. Specifications with above office and with the state highway com-

mission, Box 327, Olympia. $2 deposit. Certified check, cashier's check or bid bond 5%.

BRIDGE WIDENING—McDONALD CREEK—Widening the existing concrete bridge and approaches at McDonald Creek, Bridge No. 9/202, on PSH No. 9, Jefferson County; a State Project.

Quantities: 220 c.y. common borrow; 30 c.y. structural excavation; 40 c.y. concrete, cl. A; 4,700 lb. steel reinforcing bars; 66' of standard beam guard rail (special design). SP 2-9

▲RESERVOIR— Vancouver, Wash.

Bids received by city clerk, R. G. Lovette, City Hall, Vancouver, for construction of a reinforced concrete, 1,250,000 gal. reservoir and a pumping station at Water Station No. 3, 42nd and Washington streets, Vancouver. Plans by Stevens & Thompson, consulting engineers, P. O. Box 508, 2234 S.W. 5th Ave., Portland. LOW BIDS: L. B. Read, 2607 S.W. Sunset Blvd., Portland, $76,931; Richard L Martin Co., P. O. Box 482, Oswego, $81,619; Mac Sharp and Michaels, 9820 S.W. Eagle Lane, Beaverton, $82,996. Bids opened February 11. WB 2-13. Previous report 2-12

★ASPHALT— Vancouver, Wash.

Awards by City, R. E. Moisant, purchasing agent, 712 Washington St., Vancouver, for liquid asphalt. AWARDS: Douglas Oil Co. of California, 5500 N.W. Front Ave.; Shell Oil Co., Terminal Sales Bldg.; American Bitumuls & Aphalt Co., 5501 N.W. Front Ave., and Union Oil Co. of California, Yeon Bldg., at unit prices quoted. All of Portland. Bids received January 30. WB 2-8. Previous report 1-23

★HOT, COLD MIX— Vancouver, Wash.

Award to Fred W. Hardisty, 6921 E. Middle Way, Vancouver, $4.85 ton for ⅜" cold mix; $5.50 for ¼" cold mix; $4.85 for II Class C asphalt, and $5.35 for II Class G asphalt, by city purchasing agent, R. E. Moisant, 712 Washington St., Vancouver, fob plant site. Bids received January 23. WB 2-8. Previous report 1-19

★CRUSHED ROCK— Vancouver, Wash.

Awards by city purchasing agent, R. E. Moisant, 712 Washington St., Vancouver, for crushed rock, for use during 1957. AWARDS: Ross Island Sand & Gravel Co., 4129 S.E. McLoughlin Blvd., Portland, $2.25 c.y. for 1¼" rock delivered and spdead on streets; Pacific Building Materials Co., 400 N. Thompson, Portland, $1.90 c.y. for 1" rock delivered and spread, and for 1¼" at bidder's plant; $2.00 c.y. for cover stone at bidder's plant; Fred W. Hardisty, 6921 E. Middle Way, Vancouver, $2.33 for cover stone, delivered and spread. Bids received January 23. WB 2-8. Previous report 1-19

●PUMP STATION— Vancouver, Wash.

Bids will be opened 1:30 p.m., February 25, at the office of the Director of Finance, Municipal Bldg., 712 Washington St., Vancouver, for construction of a 20'x39' booster pump station building in east Vancouver. Plans and specifications with city engineer, City Hall, Vancouver. $15 deposit. Certified check, cashier's check or bid bond 5%. Structure will be of reinforced concrete with wood frame roof. Pipe and fittings will be furnished by the city. SC 2-9

▲LIGHTING PLANT— Walla Walla, Wash.

Bids received by Department of Institutions, G. Lee Sandritter, acting director, Olympia, for installation of a diesel power lighting plant on a standby basis for emergency use at the Washington State Penitentiary in Walla Walla. Bids were previously received January 22 and rejected. LOW BID: Electric Smith, E. 123 Sprague, Spokane, $33,940 (200-kw new plant), $37,977 (275-kw rebuilt plant). DE 2-13. Previous report 1-24

●STEEL FRAMING— Wenatchee, Wash.

Bids will be opened 10 a.m., P.S.T., March 8 by Public Utility District No. 1, Chelan County, 327 N. Wenatchee Ave., Wenatchee for furnishing and delivering approximately 1,090 ton of structural steel framing for the pewer house for Rocky Reach Hydroelectric Power Project located on the Columbia River near Wenatchee. Specifications with Stone & Webster, engineers, 707 Lloyd Bldg., Seattle. DM 2-8

★TURBINE PUMP— West Richland, Wash.

Award announced by Town Council, Town Hall, West Richland, for installation of a turbine pump for a deep well in West Richland. Specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened February 5. AWARD: DeCoto Bros., 715 S. 1st St., Yakima, $2,185. 2ND LOW: Guenther Tractor Co., 313 S. 4th, Pasco, $2,015. 3RD LOW: General Machinery, E. 3500 Riverside, Spokane, $2,076. IG 2-8. Previous report 1-23

■PUMPHOUSE— West Richland, Wash.

Planholders announced for construction of a pumphouse at West Richland, on which bids will be opened at 8 p.m., February 19, by Kenneth Foust, town clerk, Town Hall, West Richland. Plans and specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.

Plnaholders: W. A. McConnachie, 1014 E. 4th, Kennewick; E. M. Gostovich, Box 264, Sunnyside; Joe E. Venne, 507 12th St., Sunnyside; Picatti Brothers, 105 S. 3rd Ave., Yakima; Paul Weisner, Route 6, Wenatchee. IG 2-13. Previous repotrt 2-5

★CRUSHED ROCK— Yakima, Wash.

Award to Yakima Cement Products, 1202 S. 1st St., Yakima, $9,720, by James Smith, city clerk, City Hall, Yakima, for purchase of crushed rock, involving 4,000 ton base course, 4,000 ton top course, 2,000 ton coarse screening and 2,000 ton fine screening. IG 2-13. Previous report 2-7

BRIDGES— Yakima, Wash.

The Yakima County Commissioners, New Courthouse Bldg., Yakima, have authorized the replacement of bridges during 1957, according to Angus McDonald, commissioner chairman, New Courthouse Bldg., Yakima. The following bridge replacements are involved: Beauchene Road over Moxee Drain; Pioneer Lane over Cowiche Creek; three bridges on Longmire Road; two bridges on the Old Naches Highway; one bridge over the branch drain and two over branches of Wenas Creek; bridge over Selah Canal; Firing Center bridge; bridge over Roza Canal, and Rutherford Road bridge. IG 2-2

ROAD CONSTRUCTION— Yakima, Wash.
(Estimated cost $500,000)

The Yakima County Commissioners, New Courthouse Bldg., Yakima, have authorized an additional 25 miles of new Yakima County roads to be constructed in 1957. The roads to be constructed are as follows: Cowich Mill Road, 1.9 miles; Thompson Road, 1 mile; Pioneer Way, .25 miles; Elliott Road, 1 mile; Midvale Road, .5 mile; Hunziger Road, .5 mile; Carlson Road, .5 mile; Ghormley, .4 mile; McAuley, 1.4 miles; Fisk, 1.4 miles; Douglas, 1 mile; Cottonwood, 1.75 miles; Rutherford, 1 mile; South Wiley, .75 miles; South 16th, 5 miles. IG 2-2

●ASPHALT PRESSURE DISTRIBUTOR— Yakima, Wash.

Bids will be opened 10 a.m., February 18, by City Clerk, City Hall, Yakima, for purchase of an asphalt pressure distributor pump and spry-bar assembly for the city street department. Specifications with above office and with Sam Hobbs, city engineer, City Hall. IG 2-8

▲GLUED LAMINATED STRINGERS— Yakima, Wash.

Award pending investigation of error in apparent low bid of Webster Lumber Mills, Seattle, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for treated glued laminated stringers and treated lumber fob Bumping River Bridge site, approximately 45 mi. northwest of Yakima, .2 mi. from U.S. Highway 410 on Forest Service Road No. 175. Bids opened February 6. WB 2-12. Previous report 1-24

●GRADER, TRUCKS— Yakima, Wash.

Bids will be opened 11 a.m., February 18, by Yakima County Commissioners, Courthouse, Yakima, for the purchase of one motor patrol grader, one 2½-ton truck chassis and cab, five 2-ton truck chassis and cabs, three 2-door sedans. Specifications with purchasing agent. Used equipment may be sold or traded-in on purchase of new equipment. IG 2-

IDAHO

●SEWER— Boise, Idaho

Bids will be opened 2:30 p.m., February 21, by R. E. Edlefson, purchasing agent, City Hall, 6th and Bannock streets, Boise, for construction of 945' of 8" concrete sewer with four standard precast manholes on Juanita St., LID No. 134, Boise. Specifications with the city engineer at above address. $5 deposit. Certified check or bid bond required. SC 2-

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., February 21, by Idaho Department of Highways, 603 Ida St., Boise, on the Idaho Falls railroad underpass and highway overpass project described below. Plans with highway department in Boise and with district engineer at Rigby. $5 deposit.

UNDERPASS, OVERPASS IN IDAHO FALLS—Construct a railroad underpass, highway overpass and plantmix bituminous surfacing on 0.293 mi. of U.S. Highway 91 in Idaho Falls, Bonneville County. Fed. No. U-UG-6471(3).

Quantities: 21,060 c.y. unclassified excavation; 1,740 c.y. excavation for structures; 220 c.y. select borrow class B; 8,450 yd. mi. haul; 86,550 T. mi. haul (plantmix); 1,3 ton crushed gravel base course; 2,000 gal. RC-1 or MC-1 asphalt road material for prime; 35 ton blotter material; 96 tons 200 penetration asphalt road material (plantmix); 1,735 ton plantmix bituminous surfacing; 210 sq. yd. portland cement concrete paving; 2,316 c.y. concrete; 217,000 lb. steel reinforcement; 720 lb. structural steel; 18 of 8" reinforced concrete pipe. Completion time July 1, 1958. DM 1-

★RAILROAD EXTENSION— Idaho Falls, Idaho

Award to Andrew Gladney, Kentfield, Calif., $144,904, by Atomic Energy Commission, Box 1221, Idaho Falls, for extending the railroad from CPP Junction to the Naval Reactor Station in Idaho; Inv. No. AT(10-1-886. SP 2-9. Previous report 1-

WASTE CALCINATION FACILITIES— Idaho Falls, Idaho
(Estimated cost $380,000)

Architect-engineering contract has been awarded to Fluor Corp., Ltd., Los Angeles, Calif., by Atomic Energy Commissionn, Box 1221, Idaho Falls, for the proposed waste calcination facilities at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1-883. Under the contract, the firm is to furnish Title 1, 2 and 3 architect-engineering services for the first phase of the waste disposal system construction which is to serve the Chemical Processing Plant. Design criteria cover construction of one uncooled and two cooled 300,000-gallon stainless steel tanks for storage of aqueous wastes together with the necessary piping and control house. The contract also calls for the Fluor Corp. to furnish Title 1 preliminary architect-engineering services for phases 2 and 3 of the waste disposal system. Phase 2 covers construction of stainless steel tankage for storage of 1,200,000 gal. aqueous wastes together with associated piping and control house. Phase 3 covers the construction of a waste calcination facility including a waste storage treatment building, two concrete storage vaults for solid plant wastes, and handling equipment for liquids and solids. SP 2-

★GRADING, SURFACING—Kamiah, Idaho

Award to Marion Relyea, Mountain E... Box 9, Moses Lake, Wash., $62,019, by B...

reau of Indian Affairs, Portland Area Office, Branch of Roads, P. O. Box 4097, 1001 N.E. Lloyd Blvd., Portland, for grading, draining and crushed stone base and surface course on 2.84 mi. of Kooskia, Grade Road, Nez Perce Indian Reservation, 8 mi. north of Kamiah, Ida. The low bidder, Adams & Gibler, Kamiah, did not furnish a bid bond.
WB 2-13. Previous report 1-10

MONTANA

★**FIRE HOSE—** **Billings, Mont.**

Award to Hall-Perry Machinery Co., 902 Central Ave., $2,074, by City Council, City Hall, Billings, for purchase of 1,200' of 2½" double jacketed Dacron rubber-lines fire hose. EE 2-13. Previous report 1-22

●**WATER MAIN—** **Billings, Mont**

Bids will be opened 2:30 p.m., March 8, by Yellowstone County Commissioners, Courthouse, Billings, for furnishing and installing 945' of 6" water main, plus valves, boxes and fittings, in RSID No. 367, Billings. Specifications with Sage Engineers & Land Planners, Inc., 1010 Poly Drive, Billings. Certified check or cashier's check 10%.
EE 2-13

●**CRUSHED ROAD MATERIALS—** **Billings, Mont.**

Bids will be opened 5 p.m., February 26, by City Council, City Hall, Billings, for purchase of 25,000 ton crushed road materials and 5,000 ton stone chips for use by city street department during 1957. Specifications with city clerk at above address. Certified check or bid bond 5%. EE 2-13

▲**CONTROL SHAFT, POWER HOUSE FOUNDATION—** **Fort Peck, Mont.**

Bids received for the second time by Corps of Engineers, Garrison District, Riversdale, N. Dak., for altering existing control shaft and constructing foundation for a second powerhouse at Fort Peck; CIVENG-32-015-57-1. Bids opened February 7. LOW BID: E. V. Lane Corp., Palo Alto, Calif., $2,794,115. OTHER BIDDERS: Fegles Construction Co., Minneapolis, Minn., $2,808,950; Johnson, Drak & Piper, Inc., of Minneapolis, Winston Bros. of Minneapolis and Green Construction Co., Des Moines, Iowa, $3,225,-950 (joint bid). Bids were previously opened October 9 of last year and subsequently rejected. EE 2-13. Previous report 12-4

PARK IMPROVEMENTS, EXPANSION— **Glacier National Park, Mont.**

A total appropriation of $1,424,360 has been requested by the National Park Service for construction, maintenance and management of Glacier National Park during the fiscal year starting July 1, according to J. S. Emmert, park superintendent, West Glacier. The sum of $223,600 is budgeted for road and trail construction and $265,900 for road and trail maintenance. Among major construction items asked is $92,000 for utitlities development for the proposed new Lake McDonald Hotel, to be built by Glacier Park Co., and $98,000 for completion of roads and parking areas in the Rising Sun recreation area on the east side of the park. RB 2-13

■**ROADS, CURBS, GUTTERS, DRAINAGE (PHASE 3)—** **Glasgow AFB, Mont.**

Planholders announced for construction of Phase 3 roads, curbs and gutters and storm drainage system at Glasgow AFB, Mont.; ENG-45-164-57-15. Bids will be opened 2 p.m., February 20, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Bldg., Walla Walla.

Planholders: Studer Construction Co., Route 1, Billings; Arnold Swanson Co., Box 133, Hastings, Nebr.; Tri-Valley Construction Corp., Box 466, Lancaster, Calif.; Peter Kiewit Sons' Co., Box 1854, Billings; Long Construction Co., Box 1875, Great Falls; G. E. Marshall, Box 308, Roundup; McLaughlin, Inc., Box 1824, Great Falls; Nilson-Smith Construction Co., Box 1147, Great Falls; Northwestern Engineering Co., Box 1392, Rapid City, S. Dak.; Robertson & Cave, Inc., Box 1488, Great Falls; A & W Construction Co., Inc., Box 228, Glasgow; S. Birch, Inc., and S. Birch & Sons Construction Co., Box 1926, Great Falls; Central Paving Co., Box 38, Independence, Ore.; Fred R. Comb Co., 2901 Aldrich Ave. S., Minneapolis, Minn.; Inland Construction Co., Box 416, Miles City.
SP 2-13. Previous report 2-9

★**CRUSHER—** **Great Falls, Mont.**

Award to Montana Powder & Equipment Co., Box 951, Great Falls, $29,300, by Cascade County Commissioners, Courthouse, Great Fals, for one portable crushing, screening and loading plant, complete with plant mounted diesel power. Bids opened January 30. SP 2-12. Previous report 1-23

PUMPING PLANT— **Helena, Mont.**

Place of bid opening which will be held at 10 a.m., February 26, by the Bureau of Reclamation, has been changed from Government Camp, Canyon Ferry, Mont., to the Bureau of Reclamation office in the Gold Block Bldg., Helena Prospective bidders desiring to visit the site of the work should communicate with T. E. Mann, construction engineer, Box 551, Helena.
SP 2-12. Previous report 2-5

★**CAST IRON PIPE—** **Helena, Mont.**

Award announced by Henry J. Rolfes, Jr., city manger, Civic Center Bldg., Helena, for 5,000' of 6", 1,200' of 4" and 1,200' of 10" cast iron cement lined pipe and various connecting fittings. Bids opened February 11. AWARD: Pacific States Cast Iron Pipe Co., Ironton, Probo, Utah, $23,313. OTHER BIDDERS: American Cast Iron Pipe Co., Birmingham, Ala., $23,593; Pacific Water Works Supply Co., 2900 1st Ave. S., Seattle, $23,639; Waterworks Supplies Co., E. 5323 Union, Spokane, Wash., $7,041 (fittings only).
LS 2-13. Previous report 2-1

ELECTRICAL IMPROVEMENTS— **Kalispell, Mont.**

A $755,000 loan has been approved by Rural Electrification Administration for the Flathead Electric Cooperative, H. J. Miller, manager, 423 1st Ave. E., Kalispell, to be used for various system improvements and expansion. Among major items scheduled are a new 3,750-kva substation with related equipment at Martin City ($70,000), and conversion of the transmission line west of Kalispell to Boisvert Camp to a high voltage and installation of a 1,500-kva substation in that area ($35,000). New distribution facilities in Flathead and Lincoln counties scheduled for the next two years amount to about $155,000 and new transmission lines costing about $105,000 may be constructed. The Cooperative now serves approximately 2,000 customers and plans immediate expansion to serve 25 more.
RB 2-13. Previous report 12-15

WYOMING

●**SUBSTATION, POWERPLANT ADDITIONS—** **Casper, Wyo.**

Bids will be opened 10 a.m., March 26, by Bureau of Reclamation, Glendo, for construction of additions to the Casper substaiton and Alcova powerplant, Transmission Division, Missouri River Basin Project, near Casper, Wyo.; DC-4826. Specificiations with above office. Bid bond 10%. Completion time 255 days.

Project includes the following—CASPER SUBSTATION: Construction of concrete foundations; furnishing, erecting and modifying steel structures; all required electrical work to complete the additions including installation of grounding systems, electrical conduit, insulated electric cable, major outdoor electrical equipment, control board section, unmounted supervisory control and carrier relaying equipment on existing control board, carrier relaying transmitter-received sets and miscellaneous work. ALCOVA POWERPLANT: All required electrical work to complete the additons in the powerplant including grounding and insulated electrical cable, installing unmounted supervisory control and carrier relaying equipment on existing control board, installing carrier relaying transmitter-receiver set, and miscellaneous work.

Quantities—SCHED. 1—CASPER: 85' copper cable; 25' rigid metal conduit; 85' rigid metallic conduit; 100' rigid nonmetallic conduit; 1,000' coaxial cable; 350' single conductor electrical power cable; 1,800' electrical control cable; 3 current transformers; 3 potential transformers; 800' copper cable strain buses. SCHED. 2—ALCOVA: 15' copper cable. SP 2-12

★**RUNWAY EXTENSION—** **Casper, Wyo.**

Award to Northwestern Engineering Co., Box 567, Denver, Colo., $243,423, by Corps of Engineers, Omaha District, Col. T. J. Hayes, district engineer, 1709 Jackson St., Omaha, Nebr., for extension of the runway at Natrona County Airport at Casper; Inv. No. 25-25-066-57-41.
PD 2-13. Previous report 2-6

●**WATER WELL—** **Sundance, Wyo.**

Bids will be opened 7:30 p.m., February 25, by City Council, City Hall, Sundance, for construction of a water well. Plans and specifications with Brady Engineering, consulting engineers, 146 E. Hudson, Spearfish, S. Dak. $5 deposit. SP 2-13

TRANSMISSION LINE— **Sundance, Wyo.**

Bids will be opened about March 15 by City Council, City Hall, Sundance, for construction of a new transmission line for the city of Sundance. SP 2-13

WATER PROJECT— **Sundance, Wyo.**

Bond issue for $40,000 approved in the January election held by City Council, City Hall, Sundance, to finance drilling of a well north of Sundance, transmission lines and other work for the water project at Sundance. Plans and specifications by Brady Engineering Co., Spearfish, N. Dak.
SP 2-8. Previous report 12-28

UTAH

IRRIGATION SYSTEM— **Kaysville, Utah**

Haight's Creek Irrigation Co. stockholders, Kaysville, have approved plans for a pressure irrigation system which would utilize water from the Davis Aqueduct, Weber Basin Project, according to Alan B. Blood, president of the company. The system, if approved for a proposed $125,000 loan by the federal Small Projects Act, will serve Fruit Heights, part of Kaysville, and an area south and west of Kaysville. SC 2-13

▲**WATER WELL—** **Monticello, Utah**

No bids were received and project may be readvertised by Atomic Energy Commission, Construction and Supply Division, Grand Junction Operations Office, Grand Junction, Colo., for construction of a water well at Monticello. Bids were to have been opened February 4.
LY 2-12. Previous report 1-16

NEW MINE FACILITIES— **Provo, Utah**
(Estimated cost $1,000,000)

Plans announced by Columbia-Geneva Division of U. S. Steel Corp., L. B. Worthington, division president, San Francisco, Calif., for construction of new mine facilities at the Columbia mine near Provo. A $1,000,-000 haulage tunnel will be built as part of the coal expansion program and will serve to eliminate a heavy grade from the working face to the mine portal. The 8,700' tunnel will be 13' wide and 9' high and will be driven from the level of the mine tipple to intersect the coal seam down pitch from its outcrop. Also planned as part of the multimillion-dollar program are modification of the tipple at the mine to include automatic dumping and better screening and picking facilities, permitting more efficient removal of foreign materials, and construction of a mine equipment maintenance shop near the entrance of the new haulage tunnel. A new coal mines and quarries general office building is also to be constructed at

11 Major Machinery and Equipment Items . . .

. . . Invitations To Be Issued by Bureau of Reclamation

Bids will be called within the next three months by Bureau of Reclamation on 11 major machinery and equipment items. Gate valves, governors, control equipment, generators, joist, transformer gates and control system are among the items listed. Additional information may be obtained from the chief engineer, Building 53, Denver Federal Center, Denver, Colo., by referring to title and number of item.

BID CALLS EXPECTED IN FEBRUARY

GATES, SEATS, GUIDES, Helena Valley Pumping Plant (2-2)—Missouri River Basin Project, Mont. Four 7'2"x4'8" bulkhead gates, seats and guides for turbine draft tube. Estimated weights, 5,875 lb. each. Delivery date October, 1957.

GOVERNORS, Fremont Canyon Powerplant (2-5)—Missouri River Basin Project, Wyo. Two oil pressure, cabinet-type actuator governors for regulating the speed of two 33,500 hp hydraulic turbines. Delivery date November, 1958.

MOBILE SPARE TRANSFORMERS (2-7)—Missouri River Basin Project, Mont. Three 5,000 kv, 110-69-34.5 kv mobile autotransformers complete with trailers. Delivery date April, 1958.

SUPERVISORY CONTROL EQUIPMENT, Glendo Powerplant and Guernsey Switch yard (2-8)—Missouri River Basin Project, Wyo. One duplex-type control board panel for Glendo powerplant (controlling station), one switchboard cubicle for Guernsey switchyard (controlled station). Delivery date September 1957.

MOTOR CONTROL EQUIPMENT, White Bluffs Pumping Plant No. 1 (2-10)—Columbia Basin Project, Wash. One indoor 2,500 volt, full voltage starting controller for four 600 hp synchronous motors. Delivery date February, 1958.

BID CALLS EXPECTED IN MARCH AND APRIL

JOIST (2-12)—Shoshone Project, Wyo. One 10-ton hoist for bulkhead gate. Estimated weight 95,000 lb. For Buffalo Bill Dam.

CONTROL SYSTEM (2-13)—Missouri River Basin Project, Mont. One hydraulic control system for two butterfly valves consisting of high pressure oil pump, pipe fittings and valves and necessary electrical controls enclosed in a metal cabinet. Estimated weight 5,000 lb. For Helena Valley pumping plant.

GATE (2-16)—Columbia Basin Project, Wash. One 15'x29' coaster gate for Grand Coulee Dam. Estimated weight 250,000 lb.

FRAMES (2-18)—Missouri River Basin Project, Wyo. One set each of frames with guides and anchorages for 14'x18' fixed wheel gate and for 14'x18' bulkhead gate at Fremont Canyon powerplant. Total estimated weight, 60,000 lb.

GENERATORS (2-20)—Missouri River Basin Project, Wyo. Two 25,263 kva, 0.95 power factor, 11,500 volt, 257 rpm, vertical shaft, hydraulic drive, indoor type, synchronous generators for Fremont Canyon powerplant.

TRANSFORMER (2-21)—Rogue River Basin Project, Ore. One 13,500/18,000 kva, OA/FA, 69-4.16 kv, three phase power transformer for Green Springs powerplant.

Dragerton, Utah, by American Bridge Division of U. S. Steel Corp. SC 2-13

COAL CLEANING PLANT— **Wellington, Utah**

(Estimated cost $5,000,000)

Construction will start soon by Allen-Garcia Co., Chicago, Ill., for the coal cleaning and blending plant to be located at Wellington, Carbon County, Utah, for Columbia-Geneva Division of the U. S. Steel Corp., L. B. Worthington, division president, San Francisco, Calif. The facility will be completed in mid-1958 and will have the capacity to wash 600 tons of coal hourly.

SC 2-13. Previous report 2-7

ALASKA

▲REFUSE TRUCK— **Anchorage, Alaska**

Bids received by City Council, City Hall, Anchorage, for a refuse pickup truck for the City of Anchorage. LOW BID: Hoyt Motor Co., 402 5th, Anchorage, $11,222 (16-yard unit), $14,192 (20-yard unit). OTHER BIDDERS: Alaska Sales & Service, 501 [illegible], Anchorage, $11,370, $14,723; William O. McKay Co., 609 Westlake N., Seattle, $13,[illegible], $14,483; Northern Commercial Co., 742 [illegible], Anchorage, $16,375, $18,945. SC 2-[illegible]

RUNWAY EXTENSION, ACCESS ROAD, LIGHTING SYSTEM—Galena Airport, Alask[illegible]

Quantities listed for construction of runway extension, access road and high intensity runway and approach lighting at Galena Airport; ENG-95-507-57-36. Bids to be opened 2 p.m., March 12, by Corps of Engineers, Alaska District, in the Seattle office, 4735 E. Marginal Way, Seattle.

Quantities—SCHED. A—RUNWAY EXTENSION: 21,700 sq. yd. salvage and stockpile existing steel land mat; 68,000 c.y. excavation; 5,000 sq. yd. compaction in subgrade material; 95,000 c.y. unclassified fill and backfill from borrow; 13,750 classified fill from stockpile; 6,200 c.y. gravel base course; 16,850 portland cement concrete pavement; 5,275 bbl. cement; 300 ton bituminous concrete surface course; 22 ton bituminous concrete pavement; 20 ton asphalt cement; [illegible] ton aggregate; 270 sq. yd. pavement removal. SCHED. 2.—LIGHTING: 400 c.y. excavation for lighting vault; 500 c.y. classified fill and backfill from borrow.

SP 2-13. Previous report [illegible]

▲POWER, WATER FACILITIES— Ketchikan, Alask[illegible]

Low bidders announced by Ketchikan Public Utilities, Elmer B. Titus, manager, Ketchikan, for construction of three rock-fill dams, concrete spillway, diversion structure, intake structure, penstock and installation of owner-furnished equipment and other related work for the Ketchikan power system. Work will be located at the Ketchikan powerhouse, Granite Basin and at Ketchikan and Fawn lakes. Plans and specifications by R. W. Beck & Associates, consulting engineers, 1505 Tower Bldg., Seattle. Bids opened February 8. LOW BID: Scheumann & Johnson, 1001 Lloyd Bldg., Seattle, $815,915; S. S. Mullen, Inc., 621 [illegible] N., Seattle, $925,378; Manson Construction & Engineering Co., 5209 E. Marginal Way, Seattle, $982,847.

SP 2-12. Previous report [illegible]

PAVING— Palmer, Alask[illegible]

Bond issue for $200,000 approved in January election held by City Council, City Hall, Palmer, to finance street paving in Palmer. This bond issue was previously defeated last October. SC 2-13. Previous report 1[illegible]

CONTRACTS PENDING

BUILDING PROJECTS

Bids Must Be In		Date Printed in Pacific Construction Daily
	OREGON	
Feb	18—Portland—Church Addition	2-1
Feb	20—Eugene—River Road School Addition	2-7
Feb	20—Portland—Building Addition	2-12
Feb	20—Portland—Electrical Work	2-6
Feb	20—Umatilla—Maintenance Headquarters Building	2-2
Feb	21—Culver—Grade School	2-7
Feb	26—Oakridge—High School	2-1
Feb	27—Portland—Office Remodeling	2-2
Feb	28—Portland—Animal Commissary, Paddocks	2-2
Mar	6—Salem—Blind School Buildings	2-9
Mar	8—Klamath Falls—Buildings, Roads, Utilities	1-23
Mar	19—Pendleton—High School	2-8
	WASHINGTON	
Feb	18—Blaine AFB—Fire Station	2-8
Feb	18—Buckley—Ventilating, Duct Work	2-7
Feb	18—Neah Bay—Storage Shed	2-8
Feb	18—Paine AFB—Comptroller Building Addition	2-8
Feb	18—Seattle—Filing Cabinets	2-9
Feb	18—Tacoma—H. F. Hunt Junior High School	2-5
Feb	19—Geiger Field—Building Modification	2-7
Feb	19—Paine AFB—Dog Runs	1-25
Feb	19—Renton—Convent and Chapel	2-2
Feb	19—Seattle—Bowling Alley	1-26
Feb	19—Tacoma—Holy Cross Church	2-6
Feb	20—Geiger Field—Mess Hall Repair	2-7
Feb	21—Mercer Island—Shop Building	2-6
Feb	21—Pacific Beach—Naval Facility	1-31
Feb	21—Seattle—Ferry Terminal Alterations	2-7
Feb	21—Seattle—Woodworking Machinery	2-5
Feb	21—Washougal—High School	1-26
Feb	25—Aberdeen—Warehouses, Loading Dock	1-30
Feb	25—Fort Lewis—Acid Storage Buildings	2-6
Feb	25—Fort Lewis—Chapel Lighting	[illegible]
Feb	25—Milton—Brickwork	1-3
Feb	25—Shelton—Heating Plant	[illegible]
Feb	25—Vancouver—Pumping Station Building	[illegible]
Feb	26—Geiger Field—Water Separator House	[illegible]
Feb	26—Seattle—Presbyterian Church Addition	[illegible]
Feb	26—Seattle—Office, Storage Area Alterations	[illegible]
Feb	26—Seattle—Windows	[illegible]
Feb	26—Tacoma—Vocational School Addition	[illegible]
Feb	26—Yakima—Hardware Store Remodeling	[illegible]
Feb	27—Deep Creek AF Station—Office Extension	[illegible]
Feb	27—Paine AFB—Assembly and Storage Building Modification	1-[illegible]
Feb	28—Ellensburg—Church	[illegible]
Mar	1—Spokane—Presbyterian Church Addition	[illegible]
Mar	4—Millwood—High School	[illegible]
Mar	5—Seattle—Salmon Creek Elementary School Addition	2-[illegible]

Apr 4—Olympic National Park—Station, Shop 2-12

IDAHO

Mar 5—Craters of the Moon—Employe Housing, Utility Building 1-31
Mar 5—Idaho Falls—Expended Core Facility 1-31
Mar 6—Pocatello—Post Office, Courthouse Alterations, Lighting 2-12
Mar 7—Mountain Home AFB—Dental Clinic 2-9
Mar 14—Kellogg—Hospital 2-9

MONTANA

Feb 19—Great Falls—School Addition 2-8
Feb 20—Great Falls—Metal Siding Application 2-6
Feb 20—Lewistown—Building, Utilities, TM Site 1-31
Feb 26—Fort Peck—Elementary School 2-6

WYOMING

Feb 19—Green River—School 2-7
Feb 21—Saratoga—Church 1-30
Feb 26—Riverton—Medical Clinic 2-9
Mar 4—Laramie—Slade School Addition 2-9
Mar 13—Basin—School Construction 1-19

UTAH

Feb 19—Ogden—Flooring, Cabinet Covering 2-7
Feb 19—Ogden—Gas-Oil Burner Installation 2-1
Feb 19—West Jordn—Junior High School 2-7
Feb 21—Ephraim—Girls' Dormitory 1-29
Feb 26—Salt Lake City—Roosevelt Junior High School Addition 1-26
Feb 28—Provo—University Buildings 2-6
Mar 28—Ogden—Lewis Elementary School 2-12

ALASKA

Feb 21—Cold Bay, Cape Sarichef—Dew Line Extension 2-2
Feb 26—Kenai—Methodist Church 2-6
Feb 26—Ladd AFB—Ammunition Storage Facilities 2-12
Feb 26—Sitka—Employe Residences 11-7
Feb 28—Anchorage—Office Space 1-30
Feb 28—Ketchikan—Detention Home 2-8
Mar 1—Port Heiden, Port Moller AF Stations—Buildings, Utilities 2-2
Mar 8—Driftwood Bay, Nikolski AF Stations—Buildings, Utilities 2-2
Mar 15—Eielson AFB—Nike Sites 2-6

ENGINEERING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

Feb 18—Lowell—Turbine Type Pump 2-9
Feb 18—Portland—Steel Pipe, Fittings 2-12
Feb 18—Salem—Street Improvement 1-17
Feb 18—The Dalles—Sanitary Sewer 2-12
Feb 19—Portland—Street Improvements 2-6
Feb 20—Burns Installation—Sand Filter, Chlorine Tank Modification 1-30
Feb 20—Portland—Truck Bodies 2-12
Feb 21—Portland—Grading, Paving 2-9
Feb 21—Salem—Water Transmission Line 1-25
Feb 26—Burns—Water Tank 2-6
Feb 26—Portland—Rock Crushing 2-9
Feb 27—Portland—Conductor Hardware 2-12
Feb 27—Portland—Grading, Concrete Bridge 2-12
Feb 28—Othello—Power Switching Facilities 2-6
Feb 28—Portland—State Highway Projects 2-8
Feb 28—The Dalles Dam—Dolphins 2-2
Mar 1—Astoria—Light Structure 2-12
Mar 1—Portland—Steel Sliding Doors 2-12
Mar 1—Portland—State Highway Projects 2-9

WASHINGTON

Feb 18—Everett—Arc Welder 2-9
Feb 18—Everett—Copper Signal Cable 2-2
Feb 18—Yacolt—Timber Bridge 1-31
Feb 18—Yakima—Asphalt Pressure Distributor 2-8
Feb 19—Chief Joseph Dam Project—Motor-Driven Pumping Units (Schedule 1) 2-2
Feb 19—Ephrata—Drains 1-19
Feb 19—Olympia—State Highway Projects 2-1
Feb 19—Seattle—Sprinkler System 2-6
Feb 19—Seattle—Lateral Sewers 2-7
Feb 19—Tacoma—Crusher Setup 2-7
Feb 19—West Richland—Pumphouse 1-31
Feb 19—White Bluffs Pumping Plant—Power Transformer 1-4
Feb 19—White Salmon—Steel Pipe 2-5
Feb 20—Bremerton—Fire Hose 2-5
Feb 20—Seattle—Chlorinating Stations 2-2
Feb 20—Seattle—Street Improvements 2-8
Feb 20—Asphaltic Concrete or Cement Concrete Paving 2-8
Feb 20—Seattle—Asphaltic Concrete Paving 2-8
Feb 20—Spokane—Water Tank and Tower 2-6
Feb 20—Wenatchee—Capacitor Bank 2-5
Feb 21—Brewster—Pipe Lines 1-15
Feb 21—Bridgeport—Pipelines 12-27
Feb 21—Chief Joseph Dam—Blanket Extension, Revetment Repair 2-1
Feb 21—Friday Harbor—Pipe and Fittings 2-5
Feb 21—Geiger AFB—Runway, Taxiway Extension 2-2
Feb 21—Geiger AFB—Water System Extension 2-6
Feb 21—Port Angeles—Conveyor 2-2
Feb 21—Prosser—Petroleum Products 2-1
Feb 21—Seattle—Boundary Security Fence 2-5
Feb 21—Spokane—Sewer 2-9
Feb 21—Yakima—Grading, Draining, Surfacing 2-7
Feb 24—King County—Timber Bridge 2-12
Feb 25—Aberdeen—Substation 1-29
Feb 25—Cashmere—Reinforced Concrete Reservoir 1-22
Feb 25—Preston—Steel Girder Span Bridge 2-1
Feb 25—The Dalles Dam Project—Ditches, Access Roads, Fencing 2-2
Feb 25—Vancouver—Pump Station 2-9
Feb 28—Fairchild AFB—Steam Plant, Distribution System Addition 2-6

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 Pacific Northwest and Alaska, will be found in these columns.

Feb 28—Longview—Dike Reinforcing 2-6
Feb 28—Seattle—Heat Exchangers 2-9
Feb 28—Snohomish—Substation Track Extensions, Foundations 2-12
Feb 28—Tumwater—State Highway Project 2-9
Feb 28—Yakima—Grader, Trucks 2-9
Mar 1—Leahy—Nilles Corner Substation 2-12
Mar 1—Wenatchee—Cranes 2-1
Mar 4—Stanwood—Fire Hose 2-12
Mar 5—Ephrata—Deep Drains 2-5
Mar 6—Everett—Circuit Breakers 2-5
Mar 8—Everett—Concrete Asbestos Pipe 2-5
Mar 8—Port Angeles—Generator Plant Installation 2-12
Mar 8—Wenatchee—Steel Framing 2-8
Mar 11—Seattle—Anchorages, Frames and Parts 2-8
Mar 21—Everett—Transformers 2-5

IDAHO

Feb 18—Kamiah—Water System Addition 2-7
Feb 21—Boise—Sewer 2-12
Feb 21—Boise—Well Drilling 2-1
Feb 21—Lewis and Clark Highway—Concrete Trestle Bridge 1-31
Feb 26—American Falls—Pipe Laterals 2-6
Feb 26—Boise—State Highway Project 2-12
Mar 5—Idaho Falls—Radioactive Disposal, Water Line 2-7
Mar 19—Boise—Electrical Distribution System 2-6

MONTANA

Feb 19—Canyon Ferry Dam—Fixed-Wheel Gate 1-22
Feb 20—Glasgow AFB—Roads, Curbs, Gutters, Drainage (Phase 3) 2-2
Feb 26—Helena—Pumping Plant 2-5
Mar 14—Helena—Bulkhead Gates, Lifting Frame 2-2

WYOMING

Feb 18—Warren AFB—Curb, Gutter 2-9
Feb 28—Thermopolis—Anchor Dam (Concrete), Access Road 1-25
Feb 28—Thermopolis—Anchor Dam (Earthfill), Access Road 1-25
Mar 26—Casper—Substation, Powerplant, Additions 2-12

UTAH

Feb 19—Salt Lake City—State Highway Projects 2-5
Feb 25—Circleville—Water System Improvements 2-7
Feb 28—Weber Basin Project—Control, Distribution Boards 1-16
Mar 4—Ogden—Outlet Sewer 2-6
Mar 7—Weber Basin Project—Governors 2-1

ALASKA

Feb 19—Eielson AFB—Antenna Covers 2-5
Feb 20—Alaska AF Stations—Diesel Engine Generator Units 2-5
Feb 28—Elmendorf AFB, Point Mackenzie—ILAS Facilities, Navaid Building 2-7
Mar 7—Ketchikan—Painting Steel Towers 2-7
Mar 12—Galena Airport—Runway Extension, Access Road, Lighting System 2-5
Mar 15—Eielson AFB—Electrical Distribution System 2-5

WHEN THE WORKING DRAWINGS HAVE BEEN APPROVED . . .

. . . you will want to start construction just as soon as possible.

First thing to do, of course, is to get *bids that are within the available funds,* and to get them from *responsible bidders.*

You owe it to yourself and to the taxpayer to hedge against the rising tide of prices by obtaining the lowest possible bid consistent with responsible workmanship.

WITHOUT QUESTION, the best and quickest way to accomplish this is to make sure that your advertisement for bids reaches *all* the contractors, subcontractors and suppliers who are qualified to bid on your project.

YOU CAN DO JUST THAT by placing your advertisements for bids in PACIFIC BUILDER & ENGINEER publications. They are the construction trade journals of the Northwest and reach more contractors, subcontractors and suppliers than any *twenty* newspaper-type publications.

THAT'S WHY more cities, counties, school districts, PUDs, state departments and federal bureaus—more architects and more consulting engineers—place their advertisements for bids in our columns than in any other publication in the region.

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YOU CAN HEDGE against the rising tide of construction costs by placing official advertisements for bids in the NORTHWEST'S construction trade journals—PACIFIC BUILDER & ENGINEER (1st Saturday of each month), PACIFIC ARCHITECT & BUILDER (3rd Saturday), and CONSTRUCTION NEWS BULLETIN (2d, 4th and 5th Saturdays). Rates, only 35c per line for the first insertion; 25c per line for subsequent insertions.

COPY RECEIVED WEDNESDAY MORNING REACHES OUR READERS SATURDAY.

PACIFIC BUILDER & ENGINEER, INC.
2418 Third Ave. Seattle, Wash.



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., FEBRUARY 19
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, February 19, 1957, 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 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. Clearing, Draining, Grading and Constructing a Reinforced Concrete Box Girder Bridge on 4.200 miles of Primary State Highway No. 2 in King County, JUNCTION PSH No. 1 TO N.P. RAILWAY OVERCROSSING, FAP No. F-046-1(5), involving about 56 acres of Clearing, 968,590 cubic yards of Common Excavation, 476,790 units of Overhaul, 32,260 cubic yards of Excavation of Unsuitable Material, 21,110 tons of Selected Roadway Borrow, 400 tons of Crushed Stone Surfacing, 10,487 linear feet of Asphalt Lined Roadway Ditch and Spillway, 3,318 linear feet of Concrete Pipe, 1,540 linear feet of Corrugated Metal Pipe, 500 linear feet of Cast Iron Pipe, 1,168 cubic yards of Concrete, 285,240 pounds of Steel Reinforcing Bars and other items.
2. Constructing a Reinforced Concrete Box Girder Bridge on 0.052 mile of Primary State Highway No. 1 in Thurston County, MARTIN WAY OVERCROSSING, FAP No. I-001-2(47), involving about 200 cubic yards of Concrete, 41,100 pounds of Steel Reinforcing Bars, a lump sum bid for Reinforced Concrete Superstructure (about 680 cubic yards of Concrete and 207,000 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.
3. Placing Top Soil on 29.952 miles of Primary State Highway No. 1 in Lewis and Thurston Counties, LACAMAS CREEK TO TUMWATER, FAP No. I-001-2(48), involving about 47,315 cubic yards of Top Soil. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Clearing, Draining, Grading and Surfacing with Crushed Stone on 1.642 miles of a Lewis County Road, PE ELL-MCDONALD ROAD, FAS No. S-1280(1), involving about 52,710 cubic yards of Common Excavation, 33,600 tons of Crushed Stone Surfacing and Ballast, 714 linear feet of Concrete Pipe and other items.
5. Constructing Two Reinforced Concrete Flat Slab Bridges on 0.036 mile of Stevens County Roads, HALL BRIDGE AND BLUE CREEK BRIDGE, FAS Nos. S-1233 (1) and S-1235(1), involving about 270 cubic yards of Concrete, 59,800 pounds of Steel Reinforcing Bars, 1,279 linear feet of Concrete Piling and other items.
6. Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on Secondary State Highway No. 3-H in Whitman and Spokane Counties, PINE CREEK AND WAVERLY JUNCTION VICINITIES, a State Project, involving about 41,600 tons of Crushed Materials and other items.
7. Draining, Grading and Surfacing with Crushed Stone Surfacing on 7.948 miles of Adams County Roads, BLOCK 87 FEEDER ROADS, a State Project, involving about 8 miles of Grading, 17,200 tons of Crushed Stone Surfacing, 782 linear feet of Corrugated Metal Pipe and other items.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5715—2-2, 9

GRADING, CONCRETE BRIDGE
BIDS CLOSE 10 A.M., FEBRUARY 27
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, February 13, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A.M. on February 27, 1957, for furnishing the material and performing the work for constructing 9.064 Miles Grading and a 72' Reinforced Concrete Bridge, Oregon Timber Access Road Project BLM 621-A and 622-A; Middle Creek Road and North Fork Middle Creek Road, Bureau of Land Management—Coos Bay District, Coos County, Oregon, involving 80 Acres Clearing; 46 Acres Grubbing; 413,000 Cu. Yds. Excavation; 402,000 Sta. Yds. Overhaul; 67 Cu. Yds. Concrete; 15,000 Ibs. Reinforcing Steel; 5,850 Lin. Ft. Culvert Pipe; 90 Lin. Ft. 108" Structural Plate Pipe; 144 Lin. Ft. Pipe Arch Culvert; 76 Lin. Ft. Structural Plate Pipe Arch, and other small items of work. This project was previously advertised and bids rejected. Since that time the location of the North Fork Middle Creek Road has been changed and a bridge has been added. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Regional Engineer.

5719—2-16

DEEP DRAINS
BIDS CLOSE 10 A.M., MARCH 5
Ephrata, Washington
NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, February 1, 1957. Sealed bids, in single, (Specifications No. 117C-420) 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, March 5, 1957, and then publicly opened for furnishing labor and materials and performing all work for construction of Deep Drains in Blocks 41, 42 and 43. This work will include 263,865 cu. yds. excavation; 4,800 cu. yds. backfill, part compacted or puddled; 145 cu. yds. rock lining; 135 cu. yds. gravel bedding; 950 cu. yds. gravel lining; 165 cu. yds. riprap; 190 cu. yds. coarse gravel protection; 80 cu. yds. sand and gravel or crushed rock bedding; 102 cu. yds. concrete; 153 barrels cement; 10,000 lbs. reinforcement bars; 7.5 M b.m. untreated and treated timber; 519 lin. ft. 24- to 48-inch concrete culvert pipe; 234 lin. ft. 18- to 48-inch asbestos bonded corrugated-metal pipe; and 1,146 lin. ft. 12- to 24-inch corrugated metal pipe. Time allowed for completion will be 60, 120 and 175 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P. O. Box 368, Ephrata, Washington.

5716—2-9

GRADING, DRAINING, SURFACING
BIDS CLOSE 11 A.M., FEBRUARY 21
Yakima, Washington
NOTICE TO CONTRACTORS

Notice is hereby given that sealed bids wil be received by the Board of County Commissioners at their office in the County courthouse at Yakima, Washington, at 11:00 A. M., February 21, 1957, for the letting of one contract involving the following work:

One Contract Only:

CRP No. 674, LCRP No. 675, LCRP No. 676 and CRP 686 for the grading, draining, ballasting and surfacing of approximately 10.6 miles of county roads southeast of Yakima, Washington, and the stockpiling of additional material with the following principle quantities: Unclassified Excavation 56,330 cubic yards; Structural Excavation 965 cubic yards; Finishing Roadway 557.7 (100 Ft.) Stas; Pit run Ballast in Place 5,190 cubic yards; Ballast in Place 61,620 Tons, Top Course in Place 14,460 Tons; Base Course in Place 17,480 Tons; Concrete culvert pipe in place 4,967 Lin. Ft. and stockpiling of 29,690 Tons of material.

A set of plans and specifications for each contract may be obtained from the County Road Engineers office in Yakima for $4.00 per contract.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check or cashiers check, payable to the County Treasurer in an amount equal to five percent (5%) of the amount bid.

The deposit will be forfeited to the county if the successful bidder fails to enter into a contract and furnish a satisfactory performance bond within ten (10) days from date of award.

The Board of County Commissioners expressly reserves the right to reject any and all bids or parts thereof.

HAROLD PURDIN,
County Auditor.
By Lois Mathus,
Deputy County Auditor.

5718—2-9, 16

DRAINS
BIDS CLOSE 10 A. M., P.S.T., FEBRUARY 19
Ephrata, Washington
NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, January 17, 1957. Sealed bids, in single, (Specifications No. 117C-418) 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, February 19, 1957, and then publicly opened for furnishing labor and materials and performing all work for construction of DW33, DW38, and DW38A Drains, West Canal

Drains—Block 72. This work will include 234,200 cu. yds. excavation; 3,800 cu. yds. excavation and backfill of drain pipe trenches; 3,800 cu. yds. backfill about structures; 1,100 cu. yds. compacting backfill about structures; 1,600 cu. yds. puddling backfill about structures; 500 cu. yds. graded gravel; 100 cu. yds. coarse gravel protection; 4 cu. yds. concrete; 6 barrels cement; 300 lbs. reinforcement bars; 4,054 lin. ft. 8-, 10-, 12-, 15-, and 24-inch diameter drain pipe; 24 lin. ft. 10-inch diameter irrigation pipe; 500 lin. ft. 24-inch diameter standard-strength reinforced-concrete culvert pipe; 506 lin. ft. 12-, 15-, and 18-inch diameter, No. 16 gage corrugated-metal pipe; 318 lin. ft. 18- and 24-inch diameter, No. 16 gage, and 30-inch diameter No. 14 gage, asbestos-bonded corrugated-metal pipe; 24 lin. ft. salvaging and relaying 18-inch diameter corrugated-metal pipe; 5, 42-inch manholes; and 10 M.b.m. timber cradles. Time allowed for completion will be 130 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, Box 368, Ephrata, Washington.
5713 1-26

OUTDOOR TRANSFORMER
BIDS CLOSE FEBRUARY 26
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4835) will be received at Denver, Colorado, until February 26, 1957, for furnishing one 5,000-kva, 110- to 34.5-kv, 3-phase, class OA, outdoor, power transformer, having tap-changing-under-load equipment and tank-mounted arresters for Watford City Substation, Missouri River Basin Project, North Dakota. Delivery is desired within 270 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5710—1-19

CONCRETE DAM, ACCESS ROAD
BIDS CLOSE FEBRUARY 28
Thermopolis, Wyoming
NOTICE TO CINTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4831) will be received at Thermopolis, Wyoming, until February 28, 1957, for furnishing labor and materials for Anchor Dam (concrete) and Access Road, Missouri River Basin Project, Wyoming. Location 35 miles west of Thermopolis, Wyoming. Principal items are 64,000 cu. yds. excavation for dam foundation; 63,000 cu. yds. concrete in dam; 60,000 bbls furnishing and handling cement; 78,000 cu. yds. excavation for roadway; and other work. Completion time 900 days. For particulars, address Bureau of Reclamation, P. O. Box 271, Thermopolis, Wyoming; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5698—12-29

ELEMENTARY SCHOOL ADDITION
BIDS CLOSE 8 P.M., MARCH 5
Seattle, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by HIGHLINE PUBLIC SCHOOLS, DISTRICT NO. 401, at 253 South 152nd Street, Seattle 88, Washington, until 8:00 p.m., March 5, 1957, for the General, Mechanical and Electrical work for the construction of AN ADDITION TO THE SALMON CREEK ELEMENTARY SCHOOL, located at 614 S.W. 120th, Seattle, Washington, and will then and there be publicly opened and read aloud. Proposals on the work will be taken separately for General Construction, Mechanical Work and Electrical Work.

Bids received after the time fixed for opening cannot be considered. Bidders and others properly interested are invited to be present at the Bid opening.

Specifications, including bid and contract documents, and drawings, may be examined at the office of the architect, STEINHART, THERIAULT & ANDERSON, 1264 Eastlake, Seattle, Washington, SEATTLE CONSTRUCTION COUNCIL, 215 West Harrison Street, Seattle, Washington, and at PLAN BUREAU, 2413 Western Avenue, Seattle, Washington, and may be obtained at the Architect's office upon deposit of $25.00 for each set of General and $15.00 each for Mechanical and Electrical.

The full amount of deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks or annotations, at or before 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. If plans and specifications, unmutilated and without marks and notations, are not returned within 10 days after the date of the bid opening, the amount deposited to obtain plans and specifications will be forfeited.

Each bid must be accompanied by a certified check, cashier's check or bid bond, with bonding company licensed to do business at the locality of the project as surety, in an amount not less than 5 per cent of the Base Bid.

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. Highline Public Schools reserves the right to reject any or all bids and to waive informalities and irregularities.

By Order of THE SCHOOL BOARD.
HIGHLINE PUBLIC SCHOOL DISTRICT NO. 401
Carl O. Laudenbach
Assistant Superintendent
5720—2-14, 21, 28

SHOP BUILDING
BIDS CLOSE 4 P.M., FEBRUARY 21
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 4:00 p.m., February 21, 1957, for the construction of the Mercer Island High School Shop Building, and will then be opened there 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. In addition each General Contractor is requested to submit a second bid covering General, Mechanical and Electrical Work in a single contract.

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 $25.00 each for General, Mechanical, and 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 largest bid, payable to Mercer School District No. 400.

The right is reserved to accept or any or all bids and to waive all claim

No bidder may withdraw his bid af time set for the opening thereof, unl award of contract is delayed for a exceeding thirty (30) days.

By order of Mercer Island School No. 400, Mercer Island, King County, ington.

Signed: ROBERT S. STUDEBAKER
Clerk of School Dis
5717—2-6, 12, 14

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PIPELINES
BIDS CLOSE FEBRUARY 21
Bridgeport, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR reau of Reclamation. Sealed bids (Sp cations No. DC-4829) will be receiv Bridgeport, Washington, until Februar 1957, for furnishing labor and materi Pipe Lines for Brewster Flat Distrib System, Chief Joseph Dam Project, W ington. Location near Brewster, Was ton. Principal items are approxima 30,000 cu. yds. excavation; 81,000 l steel pipe, various sizes; 12,000 lin. ft. tos-cement pipe; various valves and sories; and other work. Completion 400 days. For particulars, address Bu of Reclamation, P. O. Box 705, Bridg Washington; or Building 53, Denver Fe Center, Denver 2, Colorado. W. A. heimer, Commissioner.
5701—12-29

GENERATOR
BIDS CLOSE MARCH 14
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bu of Reclamation. Sealed bids (Invitation DS-4836) will be received at Denver, C ado, until March 14, 1957, for furnishing 4,500-kva, 100-percent power factor, 60 4,160-volt, 3-phase, 60-cycle, vertical- air-cooled, outdoor, hydraulic-turb driven generator for Bix Thompson Po Plant, Colorado-Big Thompson Pro Colorado. Delivery is required within days. For particulars, address Bureau Reclamation, Building 53, Denver Fed Center, Denver 2, Colorado. W. A. heimer, Commissioner. 5711—

EARTHFILL DAM, ACCESS ROAD
BIDS CLOSE FEBRUARY 28
Thermopolis, Wyoming
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bu of Reclamation. Sealed bids (Specifica No. DC-4830) will be received at Ther olis, Wyoming, until February 28, 1957 furnishing labor and materials for An Dam (earthfill) and Access Road, Mis River Basin Project, Wyoming. Locatio miles west of Thermopolis, Wyoming. P cipal items are 71,000 cu. yds. excavatio open cut; 5,000 cu. yds. concrete; 585,00 yds. excavation in borrow and transpo tion to dam embankment; 78,000 cu. yds. cavation for roadway; and other work. C pletion time 900 days. For particulars, dress Bureau of Reclamation, P. O. Box Thermopolis, Wyoming; or Building 53, D ver Federal Center, Denver 2, Colorado A. Dexheimer, Commissioner.
5699—12-29

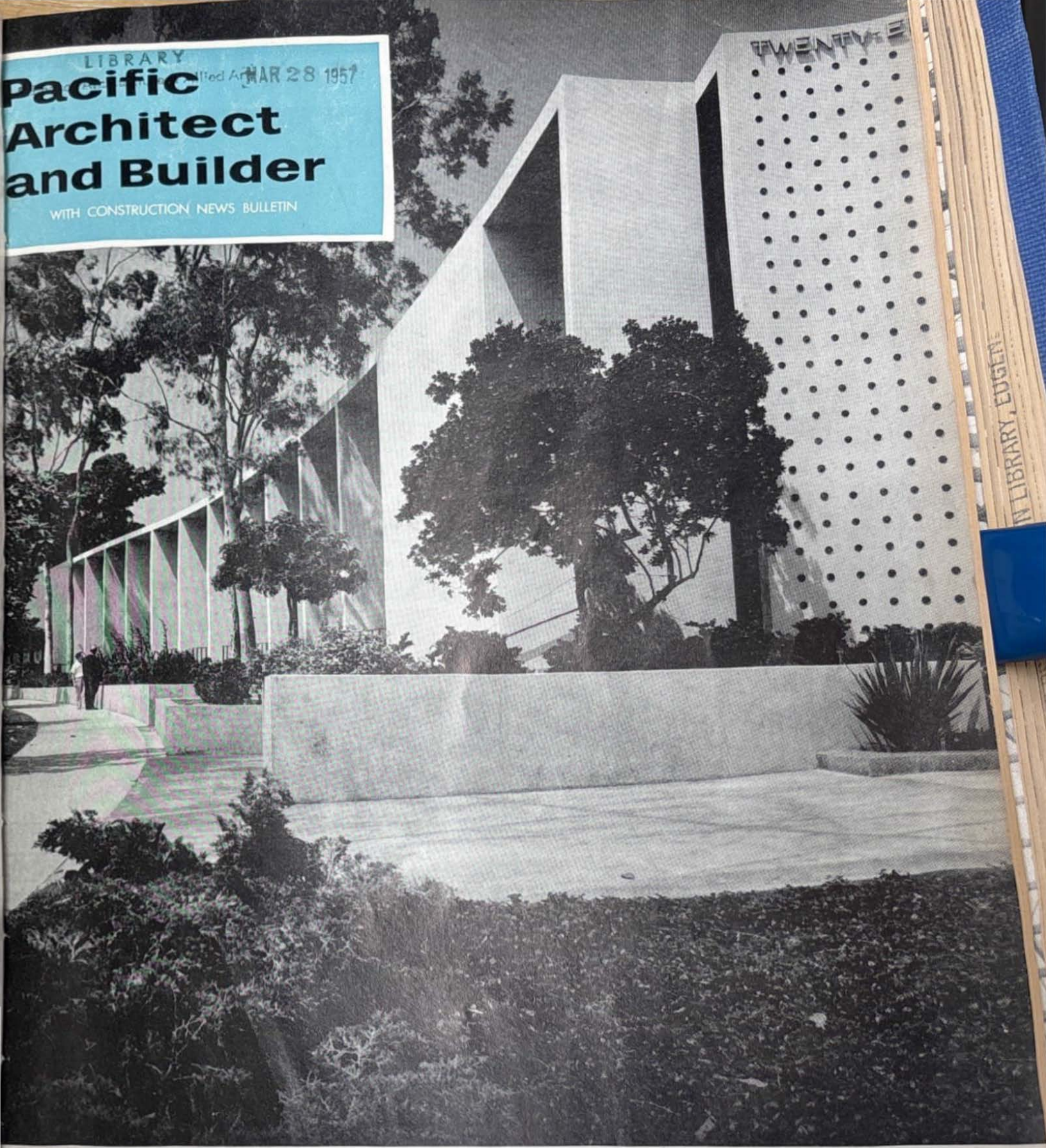
OUTLET GATES
BIDS CLOSE MARCH 7
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bur of Reclamation. Sealed bids (Invitation DS-4846) will be received at Denver, Col ado, until March 7, 1957, for furnishing f 7-foot by 12-foot outlet gates with conse ors and handling equipment for Vaqu Dam, Santa Maria Project, California. D livery is desired within 360 days. For p ticulars, address Bureau of Reclamati Building 53, Denver Federal Center, Den 2, Colorado. W. A. Dexheimer, Comm sioner.
5714—1-2

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MAR 28 1957

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN



100 YEARS, FRANK LLOYD WRIGHT AND US
—A candid report by Philip Johnson

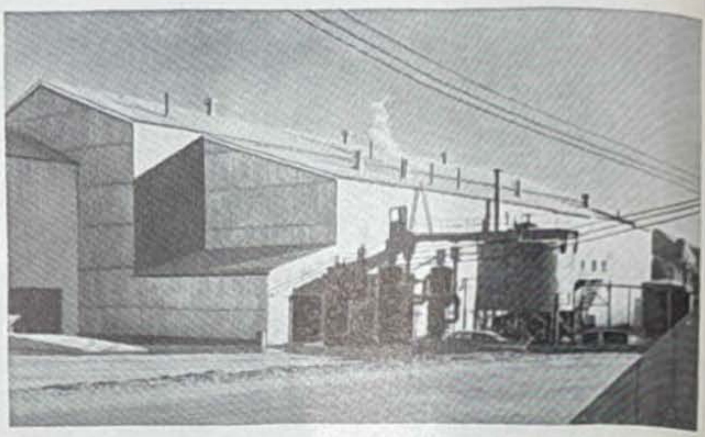
Design: church, experimental house, dental clinic

MARCH 1957

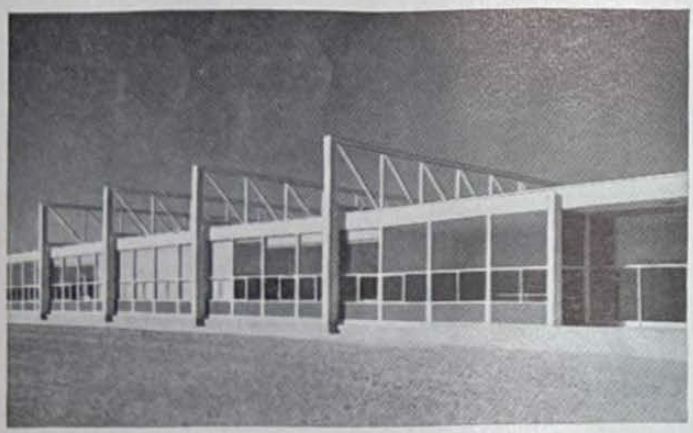
They're building with steel because it's permanent, economical, easy-to-maintain and fire-safe



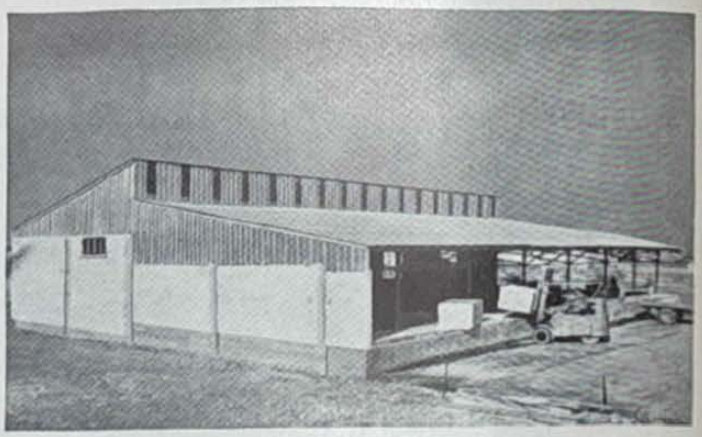
FIRE PROTECTION was the number one reason this Oregon grain storage mill was built with steel. The owner lost his first mill to fire, so vowing it would never happen again, he specified USS Corrugated Roofing and Siding Sheets and USS Floor Plate for his new building. This also lowered his insurance costs.



NO COSTLY MAINTENANCE PROBLEM HERE: This new Uranium Mill on the Colorado Plateau is frequently attacked by sand and snow storms. For maximum protection and minimum maintenance, steel roofing and siding was the obvious answer for these buildings. Steel framework leaves interiors open and flexible.



MANY COST-SAVING POSSIBILITIES result from the use of steel framing and wall panels. Curtain walls, for example, are faster to erect and provide more usable floor space. Steel framing eliminates bearing walls and reduces amount of framing. The school pictured above features an all-welded frame which helped make it Utah's least expensive (per square foot) school.



THE STABILITY of rigid frame construction provides a greater capacity to withstand winds, snow, cranes and "bumps" from materials handling equipment. Steel spans also mean more clear working space. This is just what Hansen Lime & Stucco wanted for their new Salt Lake City warehouse and shipping shed . . . so they specified steel framing, and USS StormSeal roofing and siding.

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Pacific Architect and Builder

VOLUME 63, No. 3 MARCH 1957

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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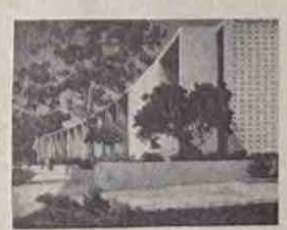
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THE COVER

28th Church of Christ, Scientist, Los Angeles (p. 14) Maynard Lyndon, architect; Julius Shulman photo.

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frank about philip & vice versa

You may wholeheartedly agree or violently disagree with what Philip Johnson has to say in "One Hundred Years, Frank Lloyd Wright and Us" but in any event we consider it "must reading." In fairness to all concerned, we would like to point out here, as we have done on page 13, that the article is based on a tape-recorded extemporaneous talk which consequently did not read very well. We have attempted to edit honestly those portions of the speech which we have included in this issue; we will also admit that Johnson's references to several other personalities were omitted because they serve no useful purpose in our presentation.

way the ball bounces

Speculation of the Brooklyn Dodgers leaving Flatbush (heaven forbid!) for Los Angeles has stirred interest among sports fans not only in southern California but up the entire coast. To the building industry, of course, it would mean a substantial construction project.

Mayor Norris Poulson after a visit with Dodger president Walter O'Malley said that the city could supply the team with a "brand new stadium" seating about 60,000 "one year from the day we get the okay for a move to the coast." Poulson's group presented the Dodgers with a plan to clear Chavez Ravine a mile from downtown Los Angeles, at a cost of about $1½ million and then construct a stadium for about $7½ million.

in the mood

The overall tone of AIA centennial celebrations up and down the coast has ranged from downright solemnity to fun and frolic. At Portland's Columbia Edgewater Country Club, for example, toastmaster Sidney W. Little, dean of the School of Architecture and Allied Arts, University of Oregon, set the stage for an evening of relaxation. Following suit, speaker Nathaniel O. Owings exchanged his more sedate tie for city commissioner William A. Bowes' red cravat. The architect admired Bowes' courage at a time when Portland is being investigated by Congress; Owings' home port, San Francisco, is next so he figured he needed the tie.

public taste

In relating her travels to other parts of the country, colleague Elisabeth Thompson commented about cab drivers and their reactions to architecture. An experience we had during Seattle's recent "winter" would seem to indicate that West Coast drivers may show a more esthetic appreciation. Upon passing one of the city's finest apartment buildings, the Skyline House (PA&B for November 1956), the cabby remarked, "That's sure a fancy building and I sure like it."

alaskan (w)omen

We have no desire to get entangled in the battle of the sexes regarding the practice of architecture but we do think it worthy of note that Joyce Smith Stevens is the first and only feminine registered architect in the Territory of Alaska. She has a brand new certificate of registration to display in her office where she is employed as an associate of Fairbanks architect M. R. McEntire.

Mrs. Stevens, who is also registered in Washington, received her BA from the state university there in 1954. She has lived in the territory since about 1931. Eight-year-old daughter Robin shares her mother's interest in design, especially now that she's helping to plan a home for themselves.

a stamp by any other name

By now most of us have had a chance to see—and use—the AIA centennial stamp issued in a shocking purple. For the uninformed we would like to explain that its design, so the post office says, is "composed of a modern mushroom type head and shaft superimposed on a Corinthian style capital, symbolizing the progress made in architecture during the last century." In other words, it is not a bird bath, a jazzed-up anvil or a shoe shine rest as some of our acquaintances have suggested!

curt comment

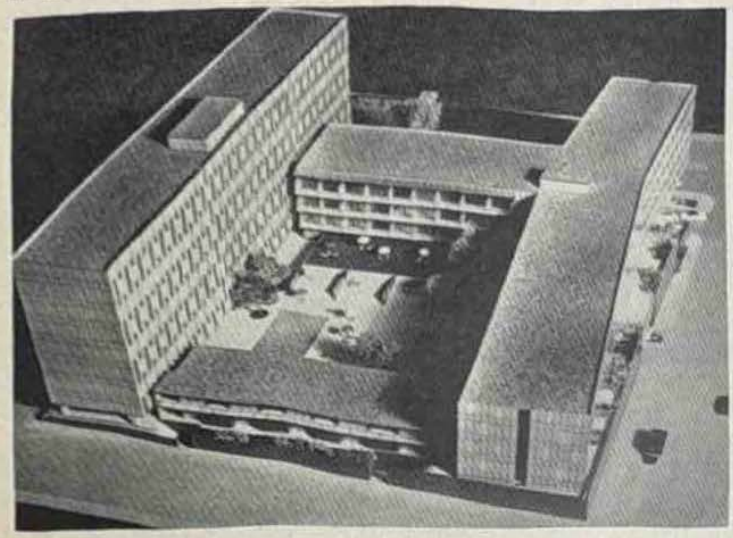
Richard J. Neutra upon receiving an honorary membership in the Industrial Designers' Institute in Los Angeles last month had a few things to say to its members. He told the designer to look within himself in his work and not let outside pressures distort what he knows to be right, pointing out that "God didn't consult the consumer when he created the world."

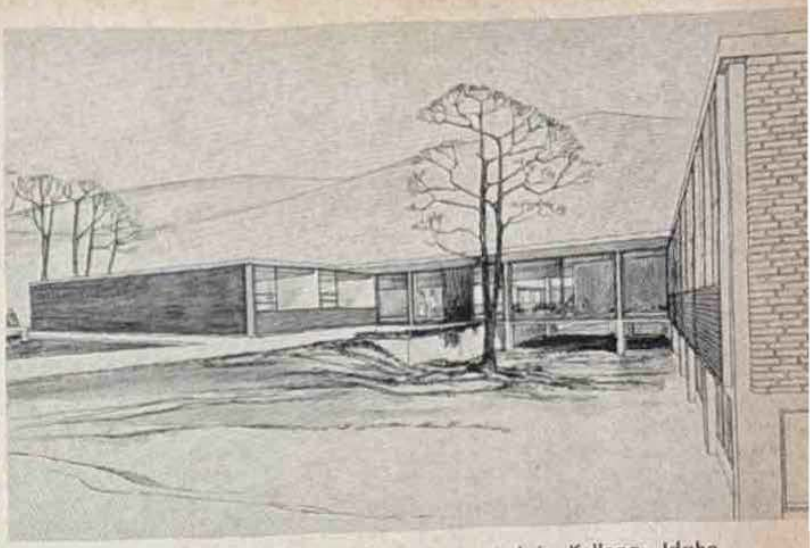
The architect showed slides of an ancient Indian village high in the mountains of South America which he compared with a scene of metropolitan Los Angeles. The former, he said, was well designed and took into consideration the nerves and organic makeup of the people who lived there; the latter, "Lousy."

R.E.K.

PROJECT PREVIEW

MODEL OF $10 MILLION PROJECT scheduled to get underway this summer in downtown San Francisco. Development will include six-story, 400-room garden type hotel centered around heated pool and nine-story office building with 600-car garage. Architects: Thomas Price and Hertzka & Knowles.

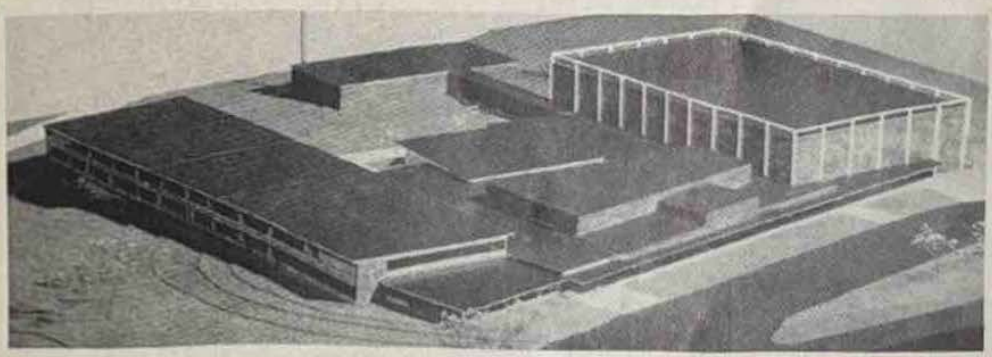




GENERAL HOSPITAL BUILDING to be constructed in Kellogg, Idaho, will be one-story, 60-bed structure, with partial daylight basement for kitchen, laundry, etc. Nursing and administration-outpatient wings will be connected by two links enclosing central court, walls on three sides of which will be glass. Exterior will have brick veneer panels. Architects: Skidmore, Owings & Merrill.



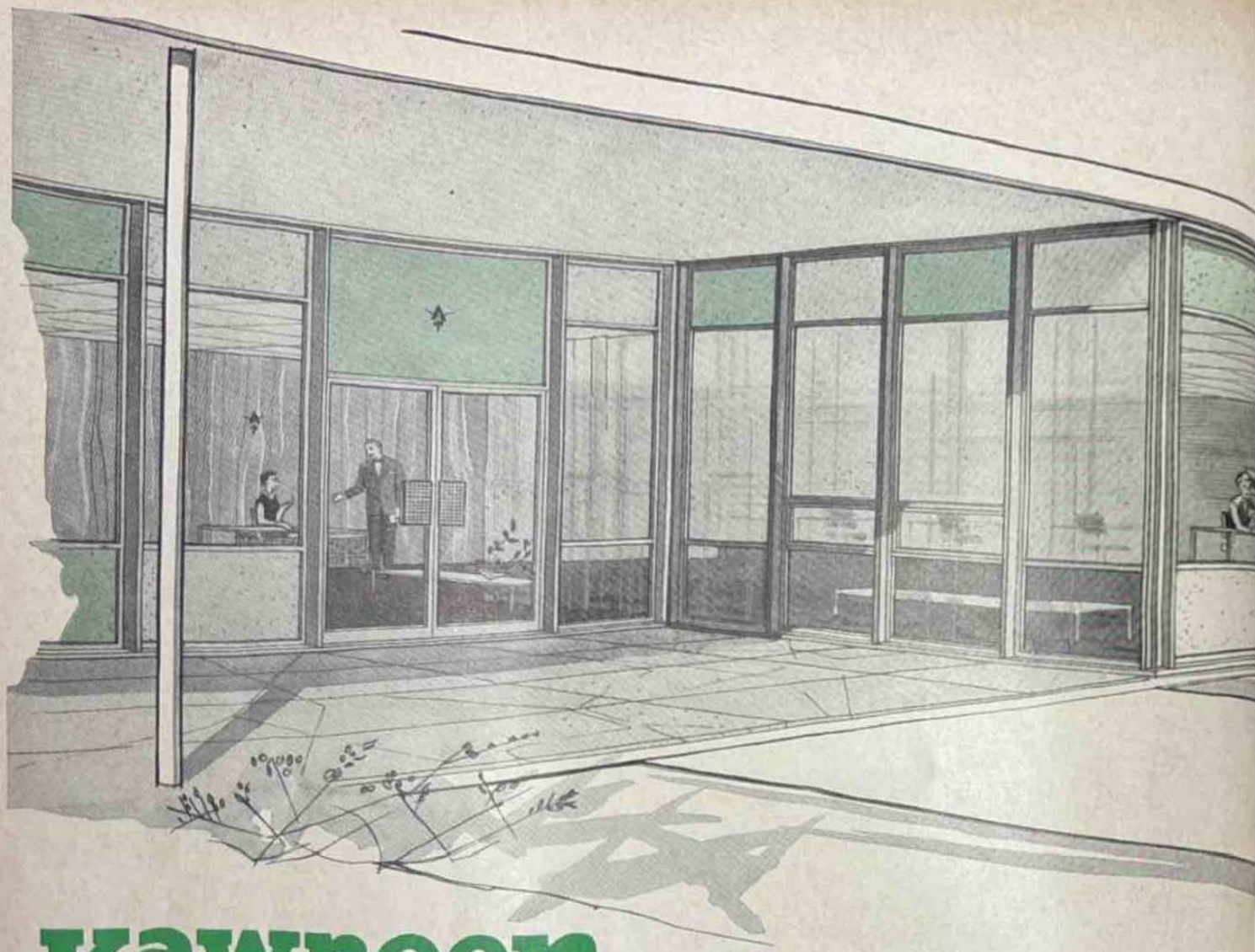
MUNICIPAL BUILDING for Beaverton, Ore., estimated to cost $250,000, will house fire station, library, police department, city offices and council chambers. Of reinforced concrete and window wall construction, three wings will be connected by covered promenade. Architect: James C. Gardiner, AIA.



HIGH SCHOOL PLANT shown in model will be built in Columbia Falls, Mont., where voters approved bond issue of $1,490,000 for constructing and equipping school. Main entrance will serve classroom wing at left and little theater and cafeteria in center; entrance to gymnasium will be on other end. Boiler plant and industrial arts will be housed in background where stack can be seen. Architects: Weed & Fehlberg.



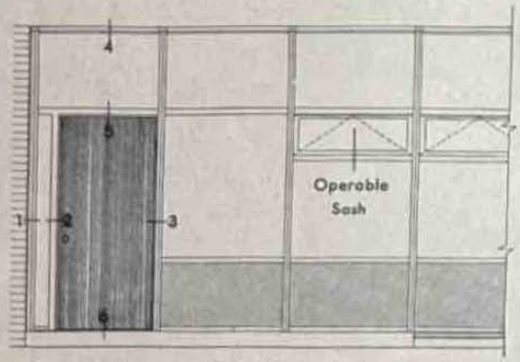
MAXIMUM SECURITY UNIT at Wayside Honor Rancho, Castaic, Calif., is being enlarged by Los Angeles County Sheriff's Department with one-story infirmary-visitation wing and two-story dormitory wings of tilt-up construction. New acoustical ceiling treatment will be provided not only for dining hall and kitchen but for the main corridors to lower noise level from steel plate doors, steel bar gates and reverberating concrete walls. Architects: Albert C. Martin & Associates.



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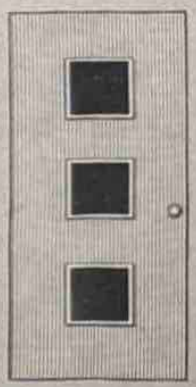
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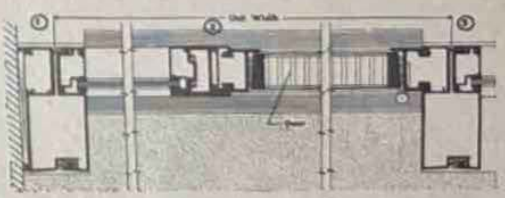
Kawneer's flush doors can add a high degree of distinction to your unit wall applications. Standard door surface is a subtle ribbed aluminum . . . special surfaces in colored vinyl plastic can be provided. Exceptional strength of honeycomb core construction make it ideal for use in heavy traffic areas.



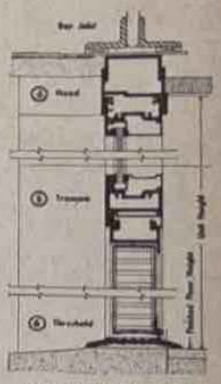
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Horizontal Section



Vertical Section

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The Building Month: Trends/Views

SPEAKERS AT THE LEGISLATIVE CONFERENCE OF SCHOOL ARCHITECTS held in Los Angeles February 9 told their listeners what they've known all along—they just aren't getting through to the public. Parents, school boards and legislators must have the simple facts—in a manner they can understand—as to the architect's vital role in providing efficient and economical schools, Donald Doyle, chairman of the assembly education committee, warned his audience of nearly 100. The day preceding the conference a wire service carried a story in which a legislator charged that the State of California is serving as "Santa Claus to provide architects with a grab bag of fat undeserved fees." Assemblyman Samuel R. Geddes charged, "California builds more schools than any other state and pays architects more than most other states. Their fees should be put on a sliding scale with the maximum fee not more than 6%."

THE CHURCH ARCHITECTURAL GUILD OF AMERICA, which in the past has often snubbed the unconventional in its annual design competition, this year has given top honors to a contemporary structure seating 300 or less persons. The only first award made in 1957 has gone to the Seattle architectural firm of Durham, Anderson & Freed for St. Elizabeth's Church in suburban Burien. The architects also won an honorable mention for combining existing and new buildings in St. James' Presbyterian Church, Bellingham, Wash. (Photos of these churches and other West Coast winners will appear in PA&B for April.)

SPEAKING OF "ARCHITECTURAL PRACTICE IN THE NEW CENTURY," Nathaniel A. Owings, FAIA, of San Francisco told Portland area architects that up to 1930 buildings were put side by side like building blocks but now "land is the thing. No building is anything unless it has a background of earth. . . . People either go to the country or you bring the country to them." He said that up to 1930 100% of the site was used for the building; now he recommends it should be not over 25 to 30%. In his address before the Oregon Chapter, AIA, at its 46th annual banquet March 5 he also asked the architects to seek out and use the artist and the sculptor in order to bring about a synthesis of art, nature and technology.

A BOARD OF ADVISORS HAS TAKEN OFFICE to keep San Francisco's building regulations adjusted to changing methods of construction. The group of five members will serve on a volunteer basis without salary and will scrutinize new materials and structural techniques. Members are William S. Meaney, architect; Norman G. Robinson, builder; John J. Gould, structural engineer; Dudley Deane, mechanical engineer; and Lyle Patton, electrical engineer. At its first meeting the board heard testimony favoring a type of metal fireplace now taboo.

IN ITS BOLDEST MARKET DEVELOPMENT SINCE IT LAUNCHED the age of metal-clad skyscrapers, Aluminum Company of America plans to greatly speed changes in home building. Alcoa's aim: better houses with much lower maintenance. The five-point program will include the promoting of about 50 model homes during 1957, designed by Charles M. Goodman, AIA, of Washington, D.C., and to be constructed by independent builders throughout the nation.

ANOTHER INDICATION OF GROWING COOPERATION between architects and home builders was apparent in Seattle last month when the NAHB held its third annual regional conference (more details across page). The builders invited five AIA architects to appear on the four-day program, each participating in a different seminar: "Build One to Twenty—There's Money in small Volume"; "Remodeling Horizons"; "Cost Analysis, Design, New Methods and New Products"; "Government Financing and Aids to Builders for Modernizing and Remodeling Buildings in Older Sections of Our Cities"; "Economic and Government Barriers to Successful Residential Development."

Northern California cites seven projects for design

Presentation of Honor Awards in seven categories was made to northern California architects at a public dinner March 9 at the Sheraton Palace Hotel in San Francisco. Winners in the competition, sponsored by five AIA chapters — Northern California, East Bay, Central Valley, Coast Valleys and Monterey Bay — follow:

- Commercial and industrial buildings: Boardwalk Shopping Center, Belvedere; John Lord King, architect.
- Apartments, hotels and motels: Studio Apartments, Sausalito; Campbell & Wong, architects.
- Site use: Mark Thomas Inn, Monterey; John Carl Warnecke, architect.
- Small house: Lawrence Livingston Jr. residence, Sausalito; John Carl Warnecke, architect.
- Large house: Mason B. Wells residence, Belvedere; Edward Page, architect.
- Public buildings and institutions: Sonoma Elementary School, Sonoma; Mario Ciampi, architect.
- Religious buildings: Chapel of the Holy Cross, Sedona, Ariz.; Anshen & Allen.

Housing secretary in cabinet advocated at NAHB sessions

"A secretary of housing and urban affairs, with full cabinet status, is necessary to the future of the home building industry, which has too often lacked support on representation at that level."

Thomas P. Coogan, past president of NAHB, in keynoting that organization's regional conference in Seattle February 14-17, also declared, "The FHA should be strengthened and its name changed to Federal Mortgage Insurance Corp., which is more in keeping with the actual function of the agency."

Among other recommendations he made to more than 350 builders from Washington, Oregon, Idaho, Montana, British Columbia and Alaska was the charging of a mortgage insurance premium which would bear a more realistic relationship to actual risks involved and should be paid as a single premium added to the mortgage rather than the flat one-half of 1% fee as at present.

Two Los Angeles architects get top AIA state, regional posts

New president of the California Council of the AIA (formerly known as California Council of Architects) is William Glenn Balch of Los Angeles.

Ulysses Floyd Rible, also of Los Angeles, has been nominated as director of the California-Nevada-Hawaii Regional Council, AIA, to succeed Donald Beach Kirby of San Francisco.



IN PORTLAND: Native red cedar home wins first prize for builder Jack C. Nunn in nationwide competition. Among electrical features in project, designed by Walter Gordon, is sunshine room which offers balanced quantities of infrared and ultraviolet radiation and pull-down unit for concentrated sunbathing.

Northwest 'electric' houses honored

Two West Coast houses have been cited in the Electri-Living program in which Living for Young Homemakers and local utilities co-sponsored 23 projects in every region of the country.

Builder Jack C. Nunn and Portland General Electric Co. took top honors with a Portland house planned by Walter Gordon, AIA; and Paul Hayden Kirk, AIA, received a special Editor's Award for his Seattle design, built by Richard Robinson and co-sponsored by Puget Sound Power & Light Co.

Builders were judged both on their construction skill and on their ability to keep the cost of the home within the young homemaker price range. The Portland project was commended for its heating system which combines radiant heating with a heat pump for auxiliary winter heating and complete summer cooling.

The house, although not large — 1,700 sq. ft.—has a generous feeling, with space flowing from one area to another in the living, family and kitchen sections. A sound baffle in the corridor separates quiet areas from the active ones. The kitchen is the heart of the house, allowing for supervision of children whether they should be in the family room or in the yard.

Kirk's design particularly impressed the jurors with its family planning. The three-bedroom house is divided into two almost independent apartments, one for children and the other for adults. The children's wing includes a large recreation room which opens onto an enclosed play area. The master bedroom adjoins a formal living room and a walled patio. Separating the two areas are the family room, kitchen and dining room.

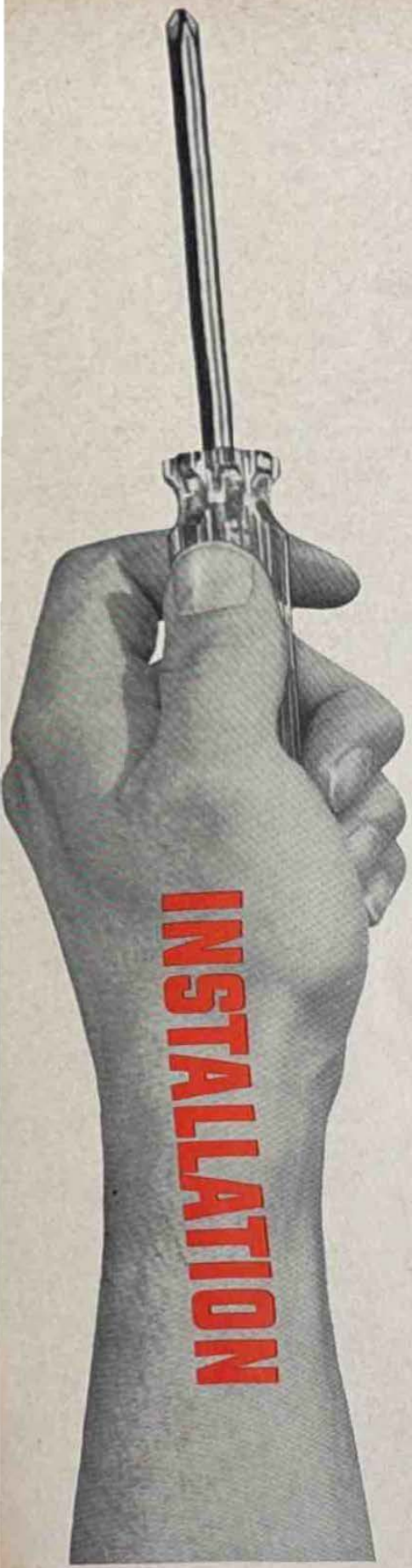


Some elements of the design are Japanese inspired. Glass paneled walls face gardens which are walled beyond with baffles of obscure glass. The structural interest of the home is heightened by enormous bricked fireplaces and flagstoned paved floors even indoors.



IN SEATTLE: Brick garden wall surrounds one wing of house which brings special design citation for Paul Hayden Kirk.

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Spokane East 41 Gray Ave., 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

Building permit volume heads downward

FOR THE SECOND STRAIGHT MONTH building permit volume in the five western states has dropped substantially below a year ago. Reflecting the shaky home building situation, the total for February, $164,919,863, was the lowest since December 1955 and 11% below February 1956.

As in January, a big decrease in California, $21 million, pulled the overall total down, but there were heavy decreases in other states as well. Percentagewise, California was down 14%; Oregon, 30%; and Idaho, 52%. Washington, showing an upturn after nearly a year's slump, was up 22% and Montana, 114%.

Heavy decreases in unincorporated areas (where tract housing had been keeping the permit volume high) were responsible for the lower California total. Los Angeles County was down $2 million; San Bernardino County, $7¾ million; Orange County, $12½ million; Contra Costa County, $1¼ million. Those agencies reporting good increases were Seattle, up $2½ million; Spokane, $1½ million; Great Falls, $1¼ million; San Diego County, $1¼ million.

The February total is 8% below January's volume. Only two states, Washington and Montana again, showed increases over the previous month.

For the first two months of 1957, the building permit volume stands at $344,606,699, a 10% drop from the same period last year. However, the decrease is confined to California ($282,631,035), which is running 13% behind 1956. Oregon ($18,131,121) is up 0.8%; Washington ($38,615,331), up 12%; Montana ($3,131,465), up 71%; and Idaho ($2,097,747), up 16%.

Following is a breakdown of building permits issued by several major agencies during February for both new structures and remodeling:

	DWELLING UNITS	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	30 ($ 577,100)	18 ($ 497,915)	
King County	250 (2,834,376)	29 (248,562)	3 ($1,690,000)
Seattle	380 (1,986,960)	151 (4,324,505)	2 (460,000)
Tacoma	83 (354,515)	34 (320,165)	
Orange County	222 (2,741,917)	49 (1,336,455)	4 (301,000)
Sacramento Co.	308 (2,483,346)	74 (1,462,530)	9 (403,265)
Los Angeles Co.	2240 (18,495,483)	415 (4,761,937)	20 (863,250)

Building Permit Totals for 116 Western Agencies for February 1957

CALIFORNIA	Feb. 1957	Jan. 1957	Feb. 1956
Alameda County	$ 3,231,850	$ 1,480,500	$ 3,073,247
Anaheim	2,028,157	1,327,050	2,728,865
Bakersfield	937,882	879,305	998,505
Burbank	818,430	719,642	1,889,845
Contra Costa County	1,604,598	1,785,681	2,953,309
Fresno	1,554,867	990,212	957,218
Fullerton	1,846,344	639,028	2,675,302
Glendale	1,396,585	1,521,371	1,923,989
Inglewood	293,261	1,568,123	1,130,527
Long Beach	4,618,580	4,422,110	2,796,945
Los Angeles	31,254,274	37,150,330	31,354,360
Los Angeles County	25,175,845	26,542,576	27,286,946
Oakland	2,384,319	4,422,327	2,430,943
Ontario	1,663,599		1,534,969
Orange County	4,570,606	4,418,937	17,040,739
Palo Alto	1,105,537	1,550,326	1,934,001
Pasadena	1,773,462	1,105,673	1,428,545
Pomona	2,176,781	1,672,237	1,184,943
Richmond	401,416	360,520	386,219
Riverside	1,573,904	1,012,059	1,963,363
Sacramento	1,354,615	2,654,825	1,922,035
Sacramento County	4,423,914	3,828,394	4,603,213
San Bernardino	1,633,561	2,706,302	1,510,587
San Bernardino County	4,365,922	5,789,093	12,032,212
San Diego	6,419,132	14,092,635	6,394,897
San Diego County	4,176,800	4,898,200	3,992,740
San Francisco	3,469,067	5,086,441	2,997,217
San Jose	3,745,775	3,729,444	2,496,010
San Mateo	886,658	821,734	925,250
San Mateo County	3,700,766	884,762	1,324,412
Santa Ana	1,345,142	799,516	1,912,705
Santa Monica	2,227,326	1,977,499	895,142
Stockton	665,796	753,509	763,012
Sunnyvale	2,088,900	2,220,600	879,150
Torrance	1,724,744	1,905,796	4,055,361
West Covina	2,292,273	1,983,590	1,727,665
TOTAL	$134,930,688	$147,700,347	$156,104,388

OREGON	Feb. 1957	Jan. 1957	Feb. 1956
Albany	$ 92,150	$ 144,950	$ 94,600
Astoria	77,727	211,975	50,150
Baker	33,300	700	18,930
Bend	93,350	72,425	15,575
Coos Bay	25,748	72,459	12,740
Corvallis	130,100	66,000	147,890
Eugene	215,710	323,925	587,438
Grants Pass	78,300	148,610	381,140
Gresham	41,700	9,350	26,200
Hillsboro	241,208	66,150	22,650
Klamath Falls	76,080	626,450	81,150
LaGrande	4,375	17,650	10,275
Lane County	554,566	425,616	450,185
Medford	180,365	2,221,190	301,027
Multnomah County	2,500,051	1,272,735	3,782,310
North Bend	229,237	345,695	31,364
Oregon City	36,155	23,100	74,985
Pendleton	64,980	117,500	69,250
Portland	1,732,135	4,852,555	2,412,030
Roseburg	45,783	43,175	141,468
Salem	195,755	196,125	725,508
Springfield	47,000	78,536	90,455
The Dalles	12,000	86,475	61,956
TOTAL	$ 6,707,775	$ 11,423,346	$ 9,589,276

WASHINGTON	Feb. 1957	Jan. 1957	Feb. 1956
Aberdeen	$ 51,469	$ 382,095	$ 121,348
Anacortes	38,395	42,925	92,439
Auburn	96,200	605,026	57,946
Bellingham	60,305	99,051	903,840
Bremerton	81,015	78,080	91,768
Centralia	51,396	71,534	37,630
Chehalis	9,335	5,993	35,465
Clarkston	79,705	15,956	52,947
Ellensburg	30,070	15,182	10,600
Ephrata	33,539	16,075	3,956
Everett	1,505,927	162,657	242,575
Kelso	17,500	17,500	32,600
Kennewick	57,550	12,000	94,150
King County	4,786,188	6,220,464	5,045,522
Kirkland	76,050	42,500	32,000
Longview	251,691	263,913	242,404
Moses Lake	103,164	19,080	95,762
Olympia	117,807	335,843	142,668
Pasco	112,275	8,625	141,150
Pierce County	889,015	1,117,783	1,031,962
Port Angeles	2,700	65,600	65,700
Puyallup	82,100	37,700	142,776
Ritzville	1,500	500,000	31,800
Seattle	6,842,227	4,817,520	4,371,350
Shelton	13,200	22,000	33,800
Spokane	2,626,256	507,353	929,327
Spokane County	805,247	254,795	747,595
Sumner	14,250	16,000	26,195
Tacoma	861,455	1,571,239	1,169,286
Vancouver	650,195	327,852	714,825
Walla Walla	122,852	7,550	124,950
Wenatchee	162,825	50,800	70,230
Yakima	88,177	183,060	24,503
TOTAL	$ 20,721,580	$ 17,893,751	$ 16,951,539

MONTANA	Feb. 1957	Jan. 1957	Feb. 1956
Billings	$ 146,000	$ 75,400	$ 237,556
Bozeman	500	15,000	13,000
Butte	47,750	518,250	27,750
Glasgow	5,530	7,500	Nil
Glendive	Nil	1,000	19,800
Great Falls	1,710,389	297,421	429,493
Helena	133,225	50,470	22,510
Kalispell	16,800	4,100	19,400
Lewistown	12,000	21,000	8,700
Livingston	3,330	1,900	11,100
Miles City	4,300	8,100	34,704
Missoula	40,200	11,300	165,800
TOTAL	$ 2,120,024	$ 1,011,441	$ 989,807

IDAHO	Feb. 1957	Jan. 1957	Feb. 1956
Boise	$ 184,635	$ 236,648	$ 220,778
Caldwell	29,700	43,150	108,865
Coeur d'Alene	6,350	69,050	61,500
Idaho Falls	4,300	36,300	70,000
Jerome	38,500	6,500	16,200
Lewiston	47,875	186,924	50,739
Nampa	17,325	21,200	223,890
Payette	3,010	12,100	4,156
Pocatello	46,151	1,011,579	46,868
Sandpoint	2,000	4,650	2,000
St. Maries	3,000	Nil	4,500
Twin Falls	56,950	29,850	99,750
TOTAL	$ 439,796	$ 1,657,951	$ 909,240
GRAND TOTAL	$164,919,863	$179,686,836	$184,544,270

The message delivered by the collaborating architect with Mies van der Rohe of Manhattan's Seagram Building before the Washington State Chapter, AIA, in Seattle is probably as provocative as any heard at centennial celebrations across the land. The views expressed in this digest of the tape-recorded extemporaneous talk are not necessarily those held by Pacific Architect and Builder



100 YEARS, FRANK LLOYD WRIGHT AND US

by PHILIP C. JOHNSON, AIA

YOU HAVE to come to Seattle to get away from the hidebound East Coast to get the wholesome air which is the essence of any new century in architecture. In general I can say that I have never been in a city where the level is so high and so fresh.

I spent the day before in San Francisco, which is a somewhat larger and much older city and has had a long history—what with Maybeck and all—of great architecture. But in relation to what is being done now, in the last three years, at least, this is better.

You are newer; you aren't tied down by the traditions of San Francisco, which seems to be rather stuck with ordinary windows and ordinary walls. You do share the wood tradition, the great Maybeck tradition of using large enough wood so you can see it, unlike the easterners who seem to prefer to use ¾-in. thick boards or plywood. You do have that in common with California but I think you use it fresher and I think you mix it more with the strains that come from other parts of the world without fear for the future. But tonight I am not going to talk about the future.

* * *

I am very interested in Frank Lloyd Wright and would like to say a few things which have been on my mind for quite some time. I've known Mr. Wright for a number of years, I know he is still alive and I thought therefore that this in a sense is the right time to speak out because, were he dead, that old maxim of "nothing about the dead but the good" would tie my mouth—and I don't want to wait until that time and have to make only pleasant statements.

Mr. Wright has been annoying me for some time. (I didn't say that he wasn't a great architect.) He says that my house, especially the glass house that you may have seen pictures of, is not a house at all—it's not a shelter, it doesn't have any eaves, it's cold and it doesn't give you a feeling of comfort; it's a box. He once said (he's much cleverer, of course, than all the rest of us so you can't say these things as well as he does) that my house is a monkey cage for a monkey. Then he came to my house the other day, strode in and said, "Philip, should I take off my hat or leave it on? Am I indoors or am I out?"

I don't hope to keep up to him in anecdotes but I claim that it is a perfectly beautiful house to live in. And I would like to counter with a few remarks about some of his recent houses. I claim that they lack a lot of other things that are very valuable for living: they lack elegance completely, they lack all sense of clarity, they are confused in design, they have no consistency structurally. In the last house he did down our way, he was going around so many corners that he didn't have time to hold up the beams, so he said to the boys, "We'll put a lolly column there." Unfortunately it happened to be in the living room.

He makes the strangest use of materials. He will combine cinder blocks, to which he has now taken a fancy, with mahogany; the roofs, the facias are all mahogany, the decorations all copper but the house is made of cinder block, an awfully unpleasant material in the evening with a silk dress.

Then there's his open plan. I like open plans too but then I'm a bachelor, I can stand it. He opened the plan so far on this last house that the clients had to get rid of him and put the wall in between the living room and their bedroom because the children woke them up in the morning. So I think I can say that all these things are very bad.

The worst thing I ever said about Mr. Wright was that he was the greatest architect of the 19th Century. I thought it was a compliment but in a way if you think back, the houses that I'm speaking of are the recent ones. Think back, for instance, to the great Riverside Club of 1900: the clarity is there, the elegance is there and only one material is used in the entire project. The great brooding shingle hip roof that became his mark at that time was extremely dignified and very clear structurally.

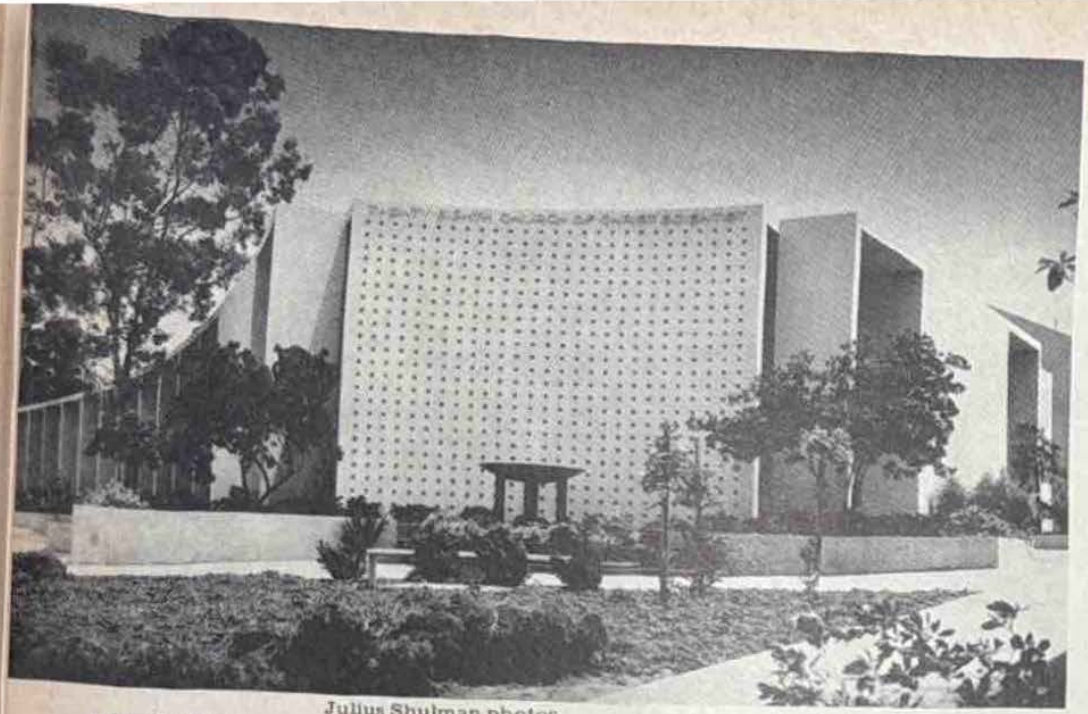
Then I'm annoyed by Mr. Wright's talking a good deal. He uses words in an unusual way. For example, he talks about cities thus, "Cities are vampires living off the blood of the countryside and the villages, sterilizing humanity." Then he says that skyscrapers are "mollusks." This is wonderful prose, pure 19th Century prose—"the mollusks erected for the exploitation of the man in the street."

He can have his opinions. Whitman had them; Thoreau had them. It's a quite good American tradition for having a hatred of the cities. But then why, in light of these remarks, does he intend to build the tallest, the largest and the most inhuman skyscraper in the world if he could (fortunately he cannot) in Chicago.

I find very annoying too his contempt for the history books, for all architecture that preceded him. Was he born full blown from the head of Zeus that he could be the only architect that ever lived or ever will? I find it an undignified approach of our greatest living architect to talk about Michelangelo who, he says, created the greatest mistake of any architect that ever lived by building St. Peter's dome.

Then almost worse is his contempt for the people who are going to come after him—and this is where it hurts us most, we slightly younger, older architects. He is determined that there shall not be any architect after him. Have you ever heard him talk about his own disciples, those poor children who sweat over the garbage pails at Taliesen East and Taliesen

Continued on p. 35



Julius Shulman photos

PERFORATED CONCRETE SCREEN serves as buffer for traffic distractions at street intersection, admits light into foyer. This section and loggia columns are shade lighter than rest of poured concrete structure, painted gray.

28th Church of Christ, Scientist
Los Angeles, California

MAYNARD LYNDON, FAIA
Architect

R. HOWARD ANNIN
Structural Engineer

E-L-E COMPANY
Mechanical, Electrical Engineers

ECKBO, ROYSTON & WILLIAMS
Landscape Architects

C. W. DRIVER
General Contractor

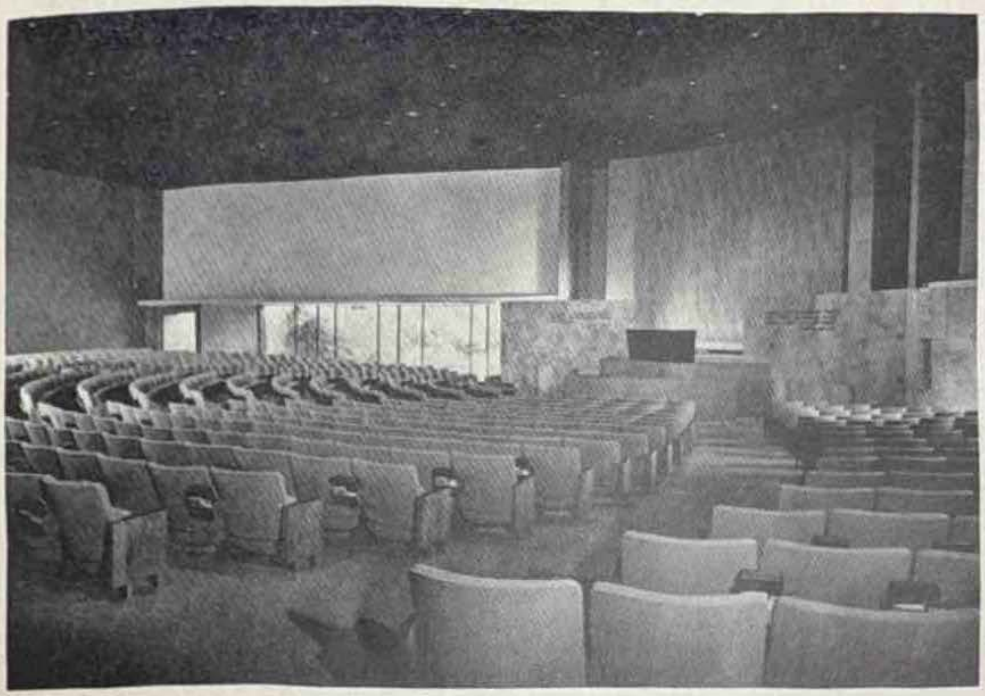


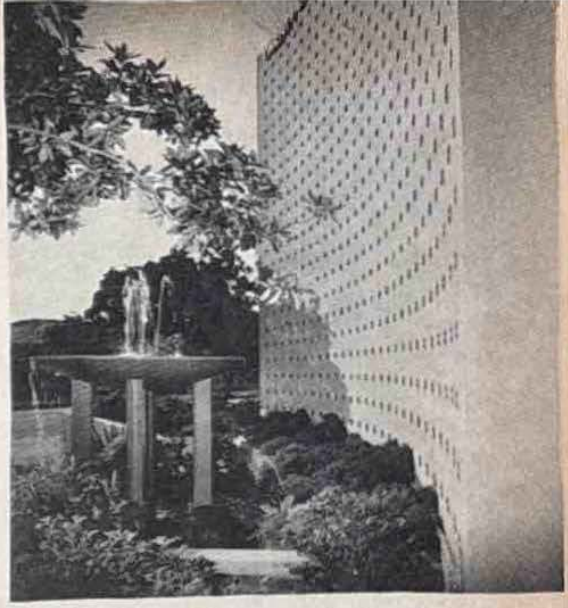
Irregular shaped site is design advantage

TO CREATE a spiritual concept in a religious building for a faith totally void of symbolism is in itself a challenge; but here the architect's problem was intensified by an irregular shaped site on which an existing church stood in Westwood Village. In meeting the building requirements, space was provided for a Sunday school assembly, classrooms and offices in the remodeled structure; main approaches to the new 800-seat auditorium were located at the apex of the triangle; and the two units were joined by a curved loggia which follows the contour of the bordering avenue.

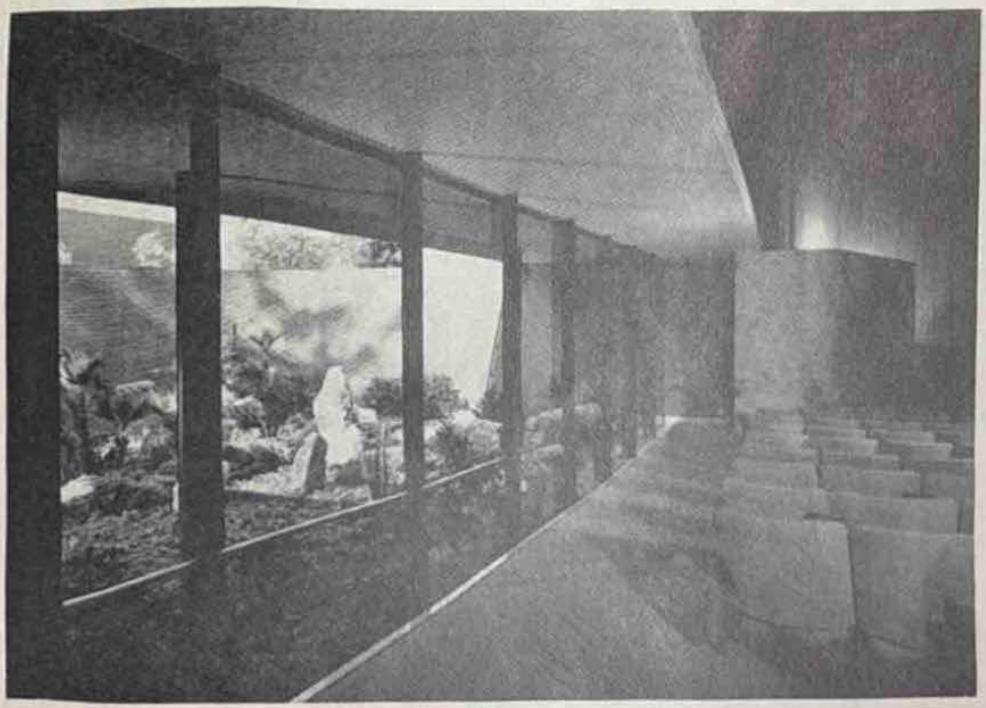
The architect actually turned the site into a design advantage when he planned the auditorium with semicircular seating to emphasize the relationship between readers and audience, one of the program's criteria. This arrangement, with 36 in. of clearance between rows, also facilitates weekly testimonial services, since any participant can be more readily heard and seen. When not before the congregation, the readers are concealed by marble panels which flank the ebony desk; it in turn is backed by the organ grill of removable black walnut sections and fronted by the console, hidden from the audience's view. Recessed fixtures are set flush in the ceiling.

How the extensive landscaping—the walled gardens at either side of the auditorium, in particular — and the broad loggia contribute a sense of tranquility is aptly stated in the photographs on these pages. But this edifice, like any satisfying piece of church architecture, does more than serve its members: it has something to say to the community and is an expression of our times. Focal point of the monolithic concrete structure is the pierced wall section which helps to minimize traffic distractions, admits light into the foyer and adds a dramatic element of interest. This slightly concaved wall and columns are painted a shade lighter gray than the rest of the concrete mass.

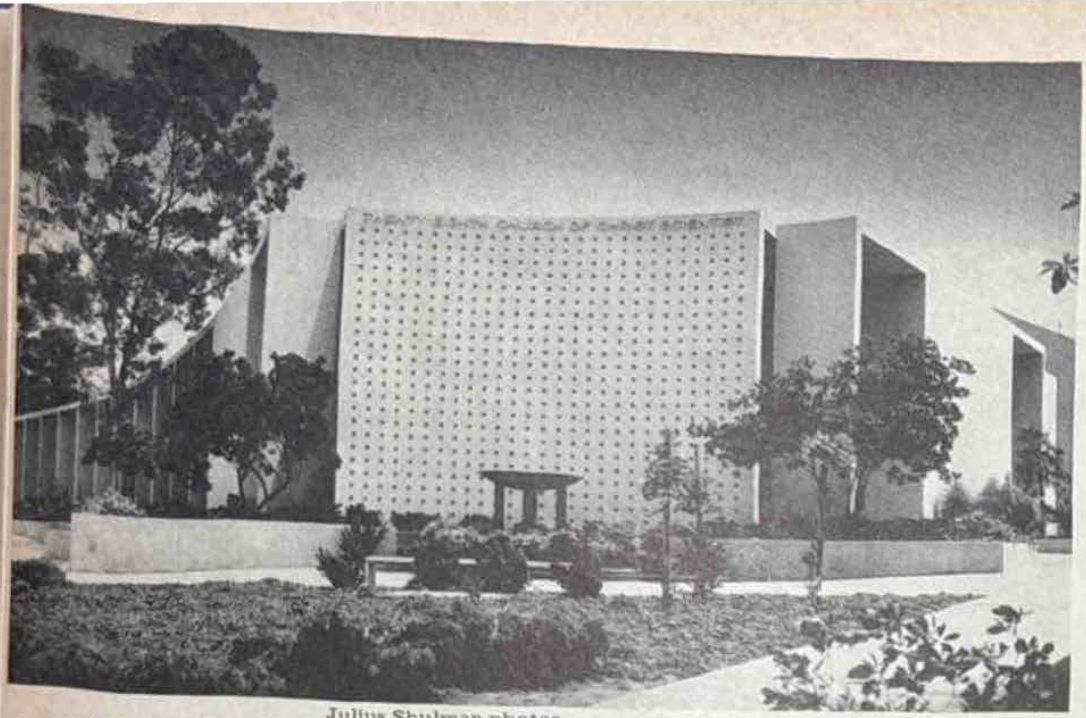




TRIANGULAR SITE'S APEX is further dramatized by metal fountain and landscaping. Semicircular seating of auditorium, which accommodates 800, helps establish rapport between readers and audience. Desk is flanked by marble panels carrying denomination's customary quotations. Gardens seen through windows at either side of auditorium are floodlighted at night. Side entrance view is shown below.







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General Contractor

Julius Shulman photos

PERFORATED CONCRETE SCREEN serves as buffer for traffic distractions at street intersection, admits light into foyer. This section and loggia columns are shade lighter than rest of poured concrete structure, painted gray.

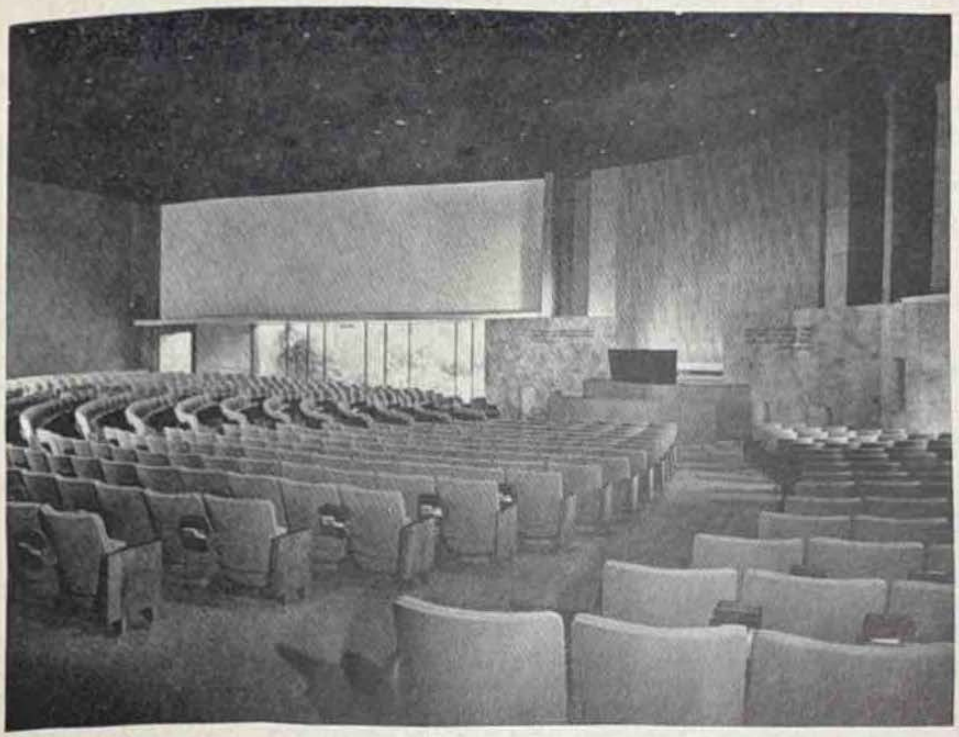


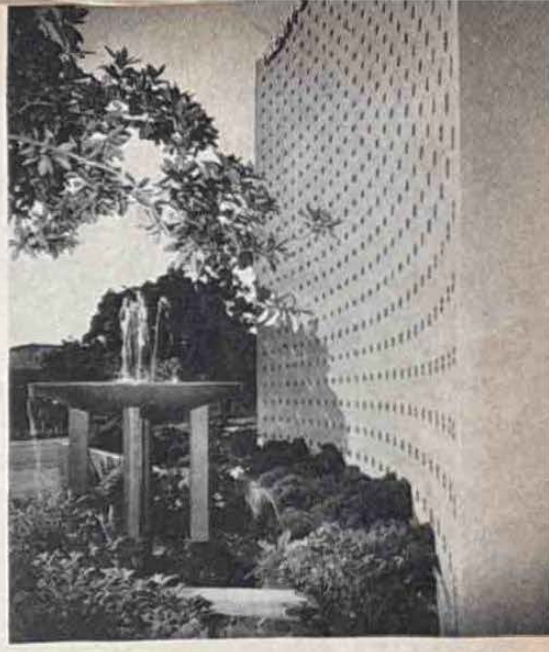
Irregular shaped site is design advantage

TO CREATE a spiritual concept in a religious building for a faith totally void of symbolism is in itself a challenge; but here the architect's problem was intensified by an irregular shaped site on which an existing church stood in Westwood Village. In meeting the building requirements, space was provided for a Sunday school assembly, classrooms and offices in the remodeled structure; main approaches to the new 800-seat auditorium were located at the apex of the triangle; and the two units were joined by a curved loggia which follows the contour of the bordering avenue.

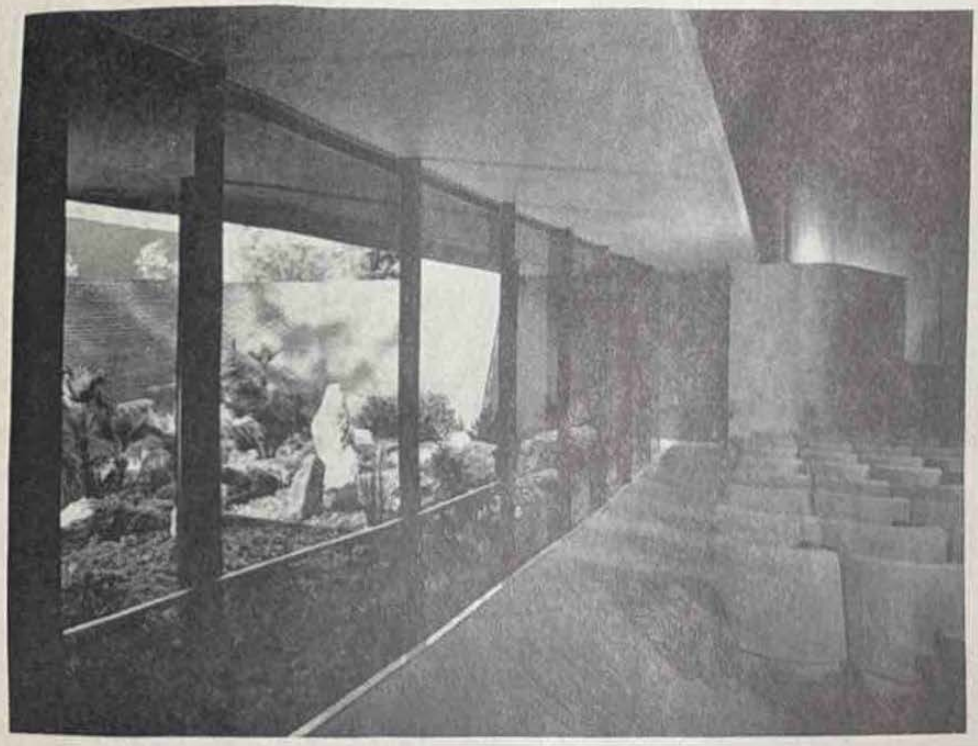
The architect actually turned the site into a design advantage when he planned the auditorium with semicircular seating to emphasize the relationship between readers and audience, one of the program's criteria. This arrangement, with 36 in. of clearance between rows, also facilitates weekly testimonial services, since any participant can be more readily heard and seen. When not before the congregation, the readers are concealed by marble panels which flank the ebony desk; it in turn is backed by the organ grill of removable black walnut sections and fronted by the console, hidden from the audience's view. Recessed fixtures are set flush in the ceiling.

How the extensive landscaping—the walled gardens at either side of the auditorium, in particular—and the broad loggia contribute a sense of tranquility is aptly stated in the photographs on these pages. But this edifice, like any satisfying piece of church architecture, does more than serve its members: it has something to say to the community and is an expression of our times. Focal point of the monolithic concrete structure is the pierced wall section which helps to minimize traffic distractions, admits light into the foyer and adds a dramatic element of interest. This slightly concaved wall and columns are painted a shade lighter gray than the rest of the concrete mass.



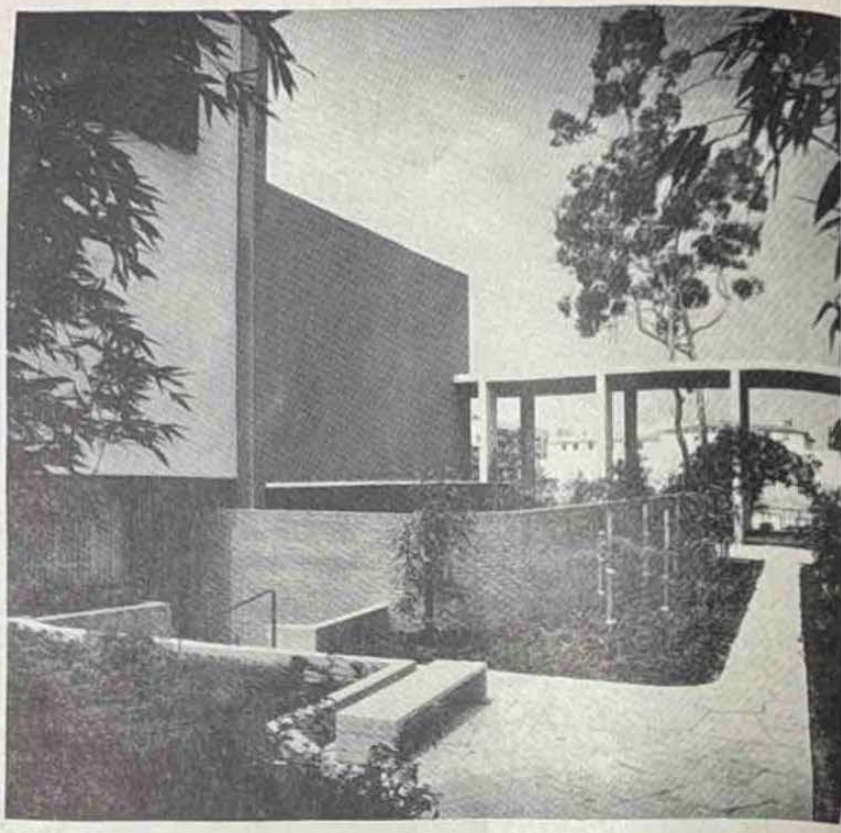


TRIANGULAR SITE'S APEX is further dramatized by metal fountain and landscaping. Semicircular seating of auditorium, which accommodates 800, helps establish rapport between readers and audience. Desk is flanked by marble panels carrying denomination's customary quotations. Gardens seen through windows at either side of auditorium are floodlighted at night. Side entrance view is shown below.





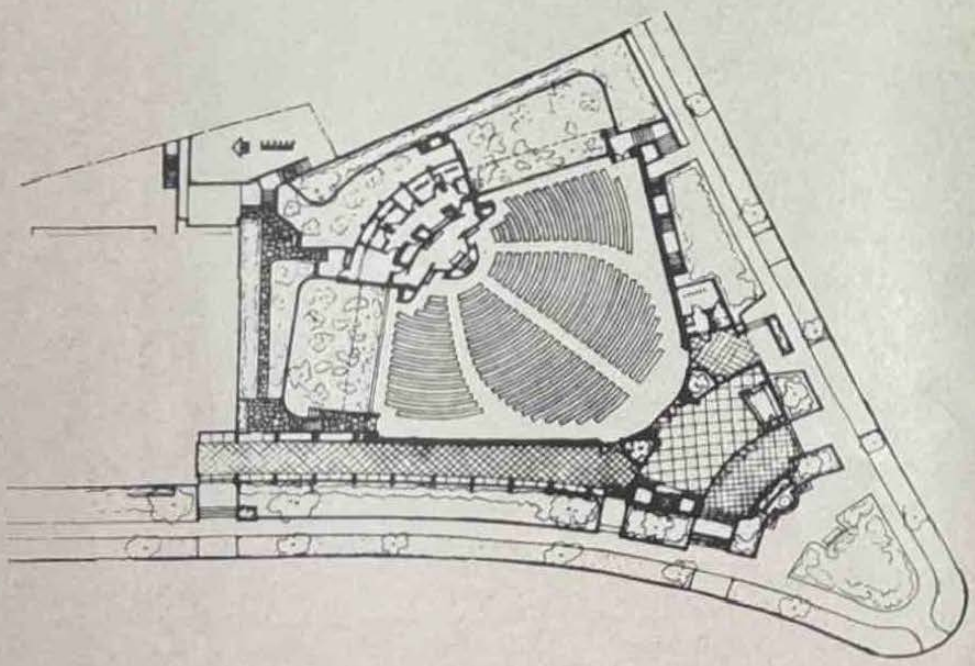


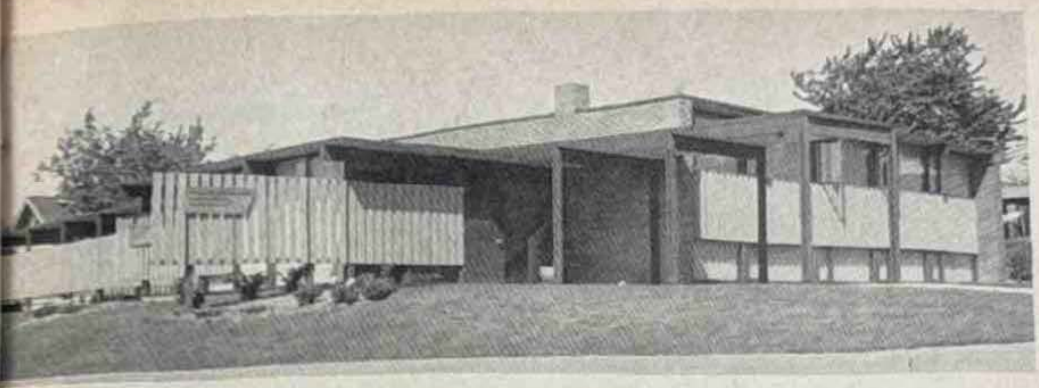


SUNKEN, WALLED GARDENS, seen from interior on preceding page, are not strong elements in exterior planning. Curved loggia connects offices, classrooms and Sunday school assembly of remodeled building with new auditorium (shown alone in floor plan).

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete.
Exterior Walls: Exposed poured concrete, painted gray.
Roof: Steel trusses and poured concrete deck.
Floors: Concrete slab with some marble and carpeting.
Windows: Steel.
Doors: Glass and wood, exterior; wood, interior.
Interior Walls and Partitions: Metal lath and plaster, painted; perforated Transite, rear wall of auditorium.
Ceilings: Painted plaster.
Lighting: Direct recessed ceiling fixtures with lens controls.
Heating: Gas fired, forced warm air system.
Total Cost: $500,000 (approximately).
Date of completion: December 1955.





COVERED WALKWAYS lead to waiting room from parking lot and street. Fencing screens autos, heightens interest in basically simple framework.

FRANK L. SHELL
Architect

THOMAS TAYLOR
Mechanical Engineer

PETTINGELL-KELLY & CO.
Electrical Engineers

NORMAN BUILDERS
General Contractor

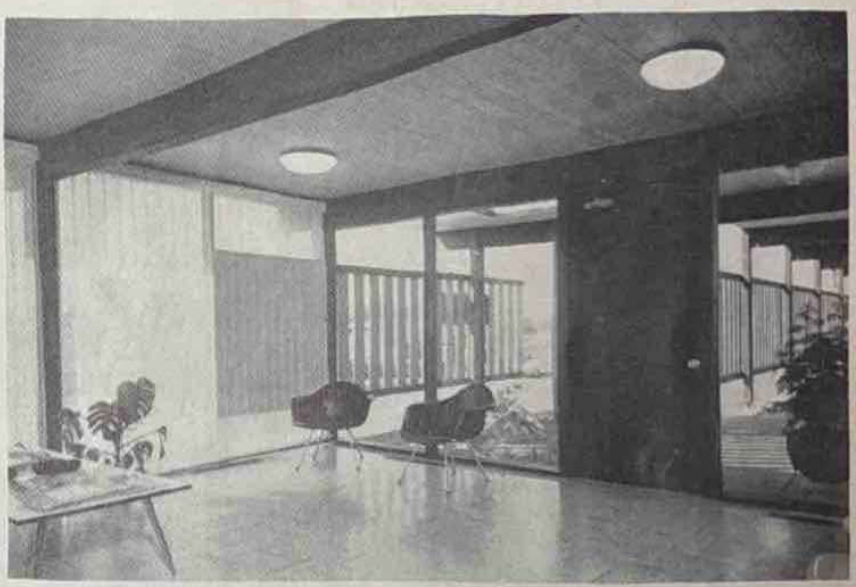
Limited budget, lots of design

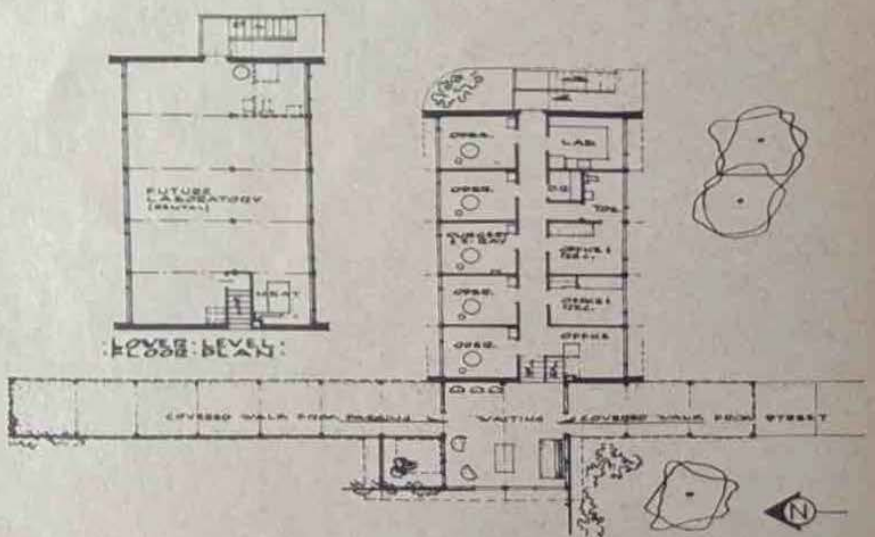
Dr. Raymond L. Hess Dental Clinic, Portland, Oregon

THE SITE for this split-level project is in a residential neighborhood, with setback restrictions and parking lot requirements which include screening from the street. The basic program called for an attractive, workable building on a limited budget and relaxing surroundings to make "going to the dentist" a less formidable task.

In designing the clinic at $8.56 per square foot (construction costs and utilities), the architect used an 8-ft. module, with posts and beams and 2-in. t&g roof decking as a basic frame. The beams have a 2x4 on each side, with a ⅜-in. plywood facing and a 1x2 member as a cap, forming structure and window stop at the same time. The brick cavity end walls provide the necessary bearing for the two-story post and beam bracing and a visual anchor for an otherwise light and floating type of structure.

The covered walk and parking lot fencing gives a sense of size to the small building and creates an interplay of space penetration, light and shadow within the basically simple framework of posts and beams and glass areas.





OUTLINE SPECIFICATIONS

Type of Construction: Post and beam on reinforced concrete footings.

Exterior Walls: Cavity brick and glass, upper level; poured concrete under glass, lower level.

Roof: 2x6-in. t&g decking with rigid insulation.

Floors: Frame with plastic asbestos Amtico, upper level; concrete, lower level and entry.

Windows: Soule Steel ventilating sash.

Doors: V-G fir solid core, exterior; faced hardboard, interior.

Interior Walls and Partitions: Exposed masonry on brick cavity wall; gypsum wallboard on non-bearing drywall partitions.

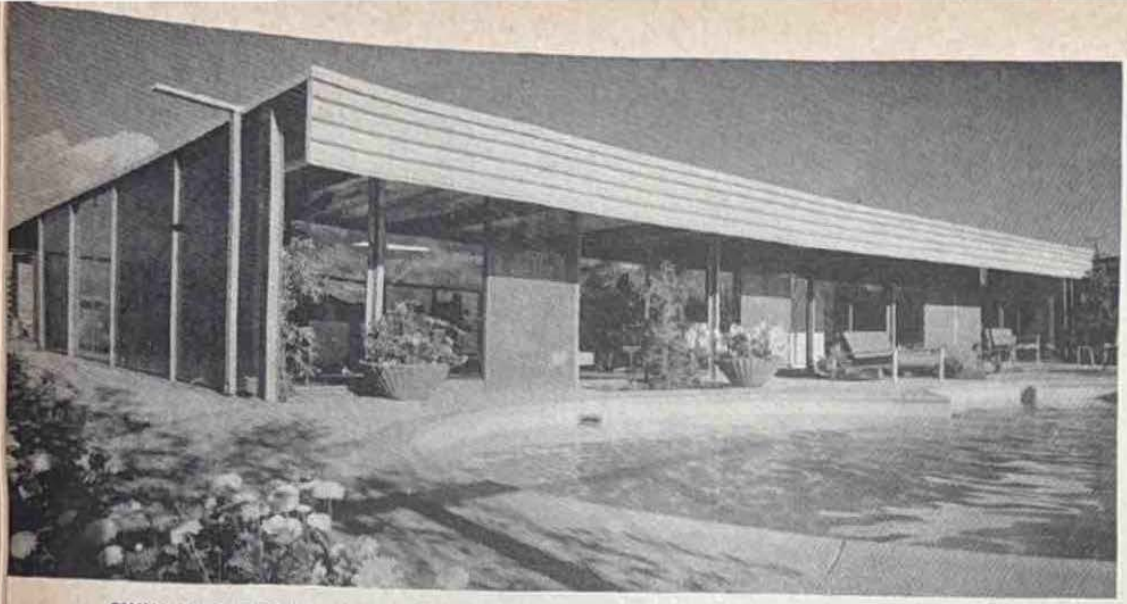
Ceilings: Exposed t&g decking.

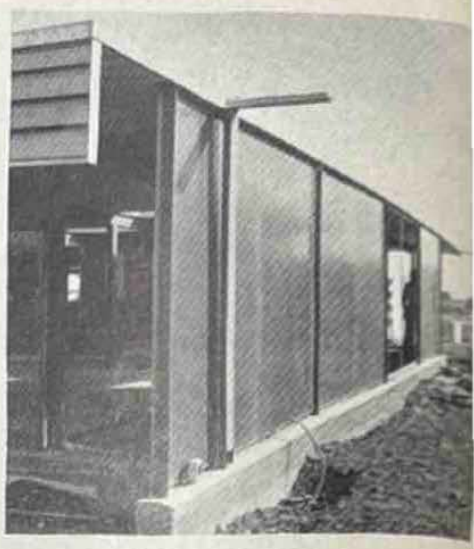
Heating: Oil fired, forced warm air.

Special Equipment: Dark room, laboratory, Hi-fi music system.

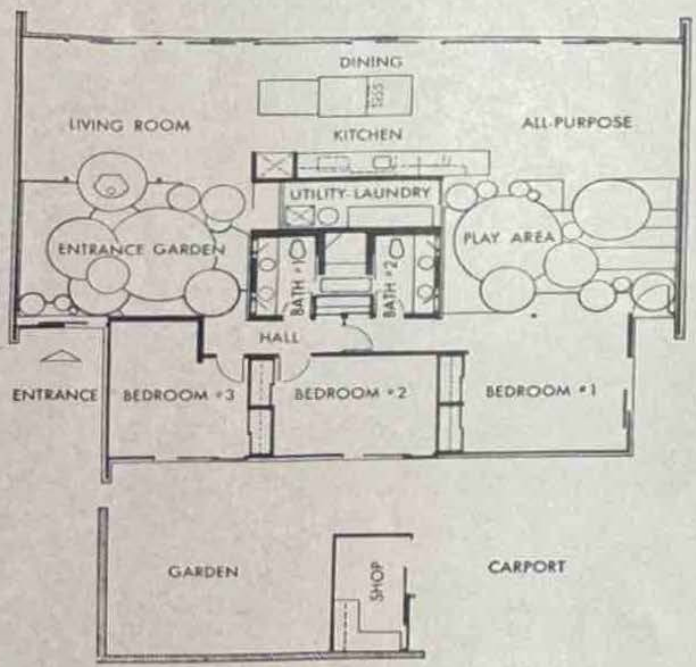
Cost per Square Foot: $8.56 (construction, with covered walks at one-half, and utilities).

Date of Completion: October 1955.





SWIMMING POOL is shaped from disc motif to repeat pattern of floor in garden rooms of interior. Rear yard is incorporated as integral part of indoor space. Wall detail (right) shows high density overlaid fir plywood factory finished in olive drab green, marking first time it has been used on any big scale for residential construction.



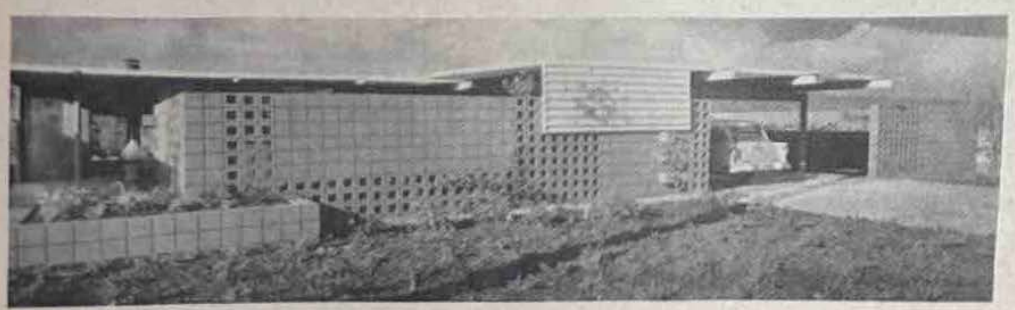
Eichler Homes X-100
San Mateo, California

A. QUINCY JONES, AIA
& FREDERICK E. EMMONS, AIA
Architects

WILLIAM R. MASON, CE
Structural Designer

DOUGLAS BAYLIS
Landscape Architect

EICHLER HOMES
Builder



Tomorrow's design, construction ideas today

EXPERIMENTAL PROJECTS often get caught in such a flood of advance publicity that the completed job is not fully reported. Such seems to be the case of the X-100 house, noteworthy because of its design and of its sponsor, a builder who has pioneered construction of architect-designed homes since 1949.

"To be truly contemporary a house must adapt its plan to the interests and normal movements of the occupants," Joseph Eichler asserts. "Our X-100 is simply the projection of this concept into the future, using factory finished, prefabricated sections wherever possible to cut down labor time on the job."

It must be remembered that this is an exhibition house, designed and built to display some of the latest ideas for creating more livable homes tomorrow. Some of the products may not be practical unless modified; some of the materials are desirable but may be too costly for today's construction; others are in early stages of research.

design

With an exposed light structural steel framework so engineered that no load-bearing walls are necessary, the house takes full advantage of every planning possibility. Floor-to-ceiling walls have been used only where they serve a specific purpose.

All rooms are placed along the perimeter to utilize outdoor space; side walls provide privacy from neighbors. Plumbing facilities for all functions, including bathrooms, kitchen, utility and laundry, are located in a rectangular core in the center of the structure.

Interior spaces have been planned for maximum flexibility of use and wide expanses of glass make the visual separation between indoor and out almost non-existent. This idea is carried even further by the inclusion of two inside living gardens as a part of the landscape architecture.

Instead of patios useful only part of the time, the two garden rooms—each 14x20 ft. — were added to the square footage of enclosed space within the house, whose overall dimensions are 56x64 ft. on an 80x110-ft. inside lot. The floors are discs of exposed aggregate concrete, radiant heated as is the rest of the house. These circles are interrupted with planted areas in which the greenery grows directly from the ground, rather than from containers.

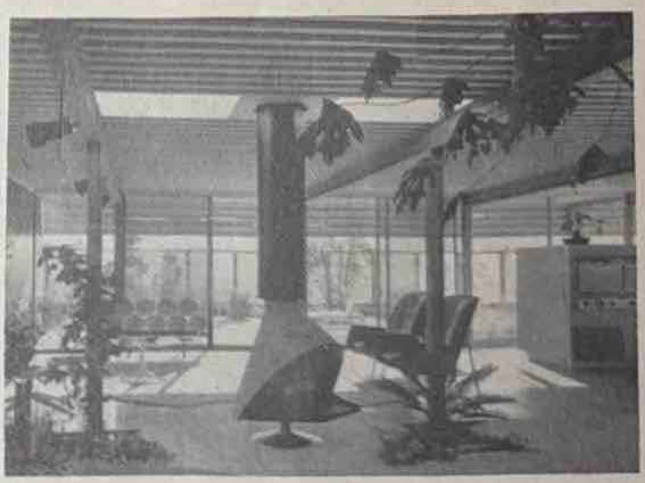
An outdoor patio at the front of the house is enclosed with a concrete block wall for use as a children's play yard. One might question the emphasis of this material in a project which is experimenting with a structural steel system. A patio at the rear is tied in with a large living area and has been furnished with the same type of terrace furniture used inside for the garden rooms.

Skylights are introduced into the approximate center of the structure to lift the light level and compensate for the usual amount of discrepancy between the perimeter and interior natural lighting.

Rooms are not arbitrarily outlined by color. Exposed steel beams and columns are a deep-tone cinnamon, both inside and out; steel ceilings are gray.

Special art pieces executed by Matt Kahn includes a 15x2-ft. relief sculpture in brass and glass resembling a delicate necklace along the end wall of the living room. A large circular medallion outdoors behind the swimming pool serves as decorative foil for the sculpture inside. Anne K. Knorr was the interior designer and Gump's furnished the accessories.





KITCHEN FORMS 16-ft. long side of plumbing area. Architects designed dining table with built-in two-burner unit. Reversible fireplace can be turned either to living room or to interior garden area. All-purpose garden room (below) is conceived as adult play area. Shop is off open carport.





X-100 HOUSE: building methods

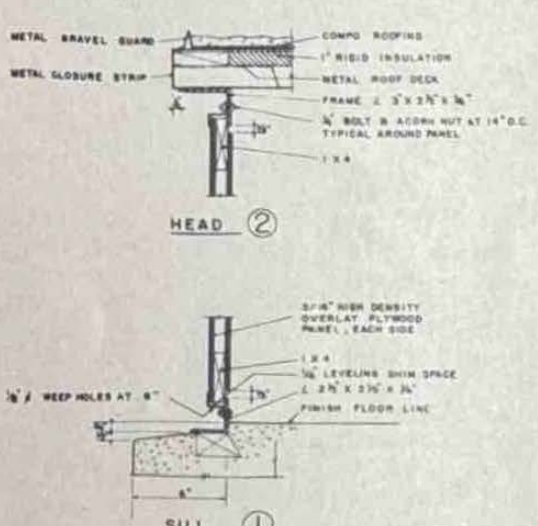
One of the new and more interesting building methods resulting from the X-100 is a system of detailing steel-supporting columns in combination with plywood walls surfaces, worked out by architect A. Quincy Jones. He developed a standard site-fabricated 4x8-ft. high density resin overlaid fir plywood wall section 5/16-in. thick. This is framed on 1x4 and 1x6 lumber to provide a 1½-in. panel, with a dead air space in the center for insulation.

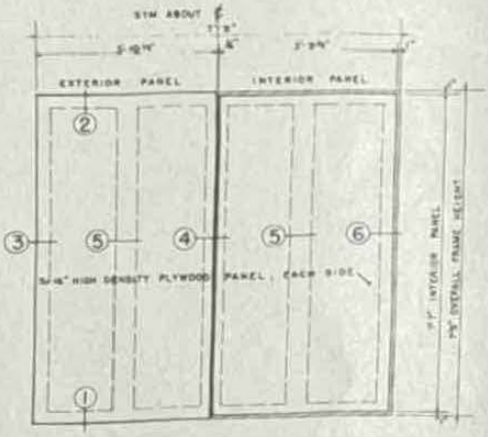
These panels are laid up at the site with standard 4x8-ft. panels applied to the framing so that there is a setback at one side and an overlap at the other side of the wall section. The result: an exaggerated t&g open joint system.

The entire house was constructed with these panels and with steel framework, prefabricated in the shop and assembled on the job in three days. Using the steel and plywood sandwich system, the wall sections were laid into place in steel T- or H-columns and held with a metal angle stop, bolted into the column. All exterior wall sections were set in mastic first and held snugly in place with wooden shims which allow ample tolerance. The panels are finished a light olive green.

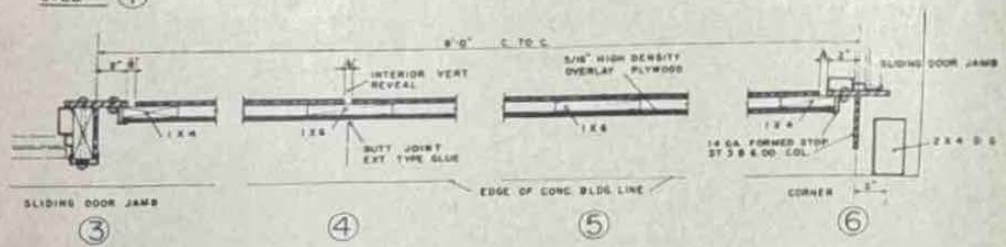
Builder Eichler believes that with the next 10 years the demand for ne homes will far exceed the labor su ply. He declares:

"To provide the quality and quan ity needed may require an entire new concept of design and develo ment of new methods of constructio Part of the answer may be in plannir homes so that walls may be move from one location to another witho structural alterations to provide ma imum flexibility within the perimet of the living area to meet changin requirements of the family."





TYPICAL PLYWOOD WALL PANEL ELEVATION



OUTLINE SPECIFICATIONS

Type of Construction: Structural steel framework by Columbia-Geneva Division, U. S. Steel Corp., with columns placed 8 ft. o.c. in one direction, 14 ft. o.c. in other; concrete foundation and footings with steel leveling plates by Herrick Iron Works.

Exterior Walls: Arcadia steel-framed sliding glass doors glazed with ¼-in. plate glass; high density resin overlaid fir plywood in job-fabricated built-up panels, held in place by non-structural T-sections which serve as mullions, resin-impregnated and finished olive drab green.

Roof: Built-up tar and gravel, with 1-in. Fiberglas insulation; steel channel gutters by Herrick Iron Works; galvanized iron flashing.

Doors: Arcadia steel-framed sliding glass, exterior; hollow core slab and sliding closet, all faced with Formica, interior.

Floors: Armstrong cork over concrete slab; poured concrete with exposed aggregate for garden rooms, with circular discs of varying sizes to provide texture and interest. (Cork floors fit into concrete discs by use of metal terrazzo dividers.)

Interior Walls: Double-faced perimeter, finish and material of which are identical for both interior and exterior.

Interior Partitions: Plywood faced with Formica, treated as furnishings rather than room boundaries.

Ceilings: Exposed Robertson No. 3-Q decking with corrugated appearance, welded to steel beams so that roof acts as diaphragm for transmitting both earthquake and wind loadings; decking spray-painted on job but future painting would be by brush.

Heating: Arro gas-fuel, hot water radiant floor system.

Special Lighting: 96 sq. ft. of Wasco Skydomes for natural overhead lighting—32-ft. continuous length in center of house extending from entry garden room across bathrooms and into all-purpose garden room; 8x21-ft. skylight over revolving fireplace between living room and entry garden; four additional installations, each two feet square: one over built-in cooking range unit, one in laundry area of utility room, two in bathrooms.

Kitchen Equipment: Plywood and Formica casework and cabinets; Norris-Thermador Bilt-in electric refrigerator, double oven and range; Waste-King garbage disposer and automatic dishwasher.

Utility Room: General-Electric built-in undercounter washer-dryer; A. O. Smith Permaglas water heater.

Swimming Pool: Circular disc shaped by Award Pool Division, Davis Products.

Total Area: 2,310 sq. ft. (enclosed living space, 2,226 sq. ft.; enclosed workshop, 84 sq. ft.).

Date of Completion: Fall 1956.

ANNOUNCING

AN ENGINEERING ACHIEVEMENT

IN STEEL FRAMING MEMBERS USED TO SPAN WIDE AREAS



MACOMBER

COLD FORMED **V-GIRDERS**

A STRONGER FLOOR AND ROOF SUPPORT

IN THE SPAN RANGE
40 to 76 ft.

SEND FOR CATALOG

MACOMBER

INCORPORATED

CANTON 1, OHIO



NAILABLE V-BEAMS
•
V-GIRDERS
•
V-BOWSTRING TRUSSES
•
METAL DECK
•
V-LOK STEEL FRAMING
•
STEEL JOISTS

STANDARDIZED STEEL BUILDING PRODUCTS

Client-architect-engineer-contractor relations

by FULTON G. GALE JR., AIA

ARCHITECTURE today extends its influence into almost every facet of the building industry—and especially so in the development of the complex traffic control of our modern cities.

We find that the individual architectural office becomes more and more diversified and we also find that a great number of architects and engineers are putting together teams, as partnerships, to handle all manner of design projects involving a great number of professional services such as architectural, structural, electrical, industrial, mechanical and civil engineering, rather than working under a joint venture to cope with the relatively large federal, state and municipal projects now underway or in the planning stage. We consider this type of organization a key to the success of the professional A-E service which is conversant with the demands of clients who insist on a more economical, functional and well designed program.

Heretofore it was necessary for clients to go to large centers of population and to pay additional travel fees for this type of service in order that the so-called experts would be available. This of course shut out the local firms due to the lack of experience and diversification.

It is important for the client to understand that in obtaining a professional service he is not just buying a commodity such as a set of blueprints but that he is buying ideas and talent. This talent is combined in many organizations to make a team of well integrated specialists all contributing ideas and each with a distinct capacity, giving us as a society a much higher standard of living. All this throws an additional responsibility upon the shoulders of the architect-engineers — a responsibility not only to the client or the contractor but a responsibility to the building industry as a whole.

There are five points in this service that I wish to touch upon because they seem to be uppermost in architect-engineer-contractor relation discussions: estimating, specifications, separate contracts, alternates and inspection.

Estimating

With the responsibility that I mentioned we sometimes do a disservice to both the client and the contractor in not estimating close enough. As a matter of fact, I recently had an estimator from a contractor's office inquire as to a position in our firm, saying that he felt we needed one as a result of a recent bid opening. We do have estimators but, in all respect to you contractors, our problem of estimating is a very difficult one and it stems from the insistence of the owner that a preliminary estimate be given far in advance of the actual bidding date. At times these estimates are revised but the original figure is still in the mind of the owner.

We find that occasionally, even though complete plans and specifications are provided for competitive bidding, contractural bidders often times are fairly widely dispersed in their final bids. We A-E's realize that cost estimating is very important from the industry's standpoint and that it also provides the architect-engineer with an additional burden of drawing up plans and specifications, which are readily and easily taken off by the estimator.

Specifications

The question of specifications is always controversial. It is my personal feeling that especially today, where there is so much competition in all endeavors and with the insistence of the "open specification" in the public work, it imposes a terrific burden on the A-E during construction to be fair with the contractor and the supplier and at the same time insist that he comply with the intent of contract. Under certain sections such as "miscellaneous metal specialties" the contractor is faced with uncertainty as to the extent of the supplier's bid and many times it either means that the contractor must, at his own expense, furnish the needed item or include a contingency for the total work.

Separate contracts

There has been much debate in regard to multiple contracts on work that is being segregated or could be segregated. However, a bid is generally accepted as including a reimbursement for coordination of work as part of the total contract.

How to prevent the dangers of this method of contract in regard to bid shopping is a subject of controversy in our industry. There is a possibility of separate bidding when prior to the signing of the contract an additional fee for coordination will be negotiated and a general contractor will actually sign the final contract, using the subcontractors who were low in the bid.

Alternates

Then there is the question of alternates and this substantially stems from the reluctance of the architect-engineer to get himself out on a limb, so to speak, in regard to the owner's insistence that a budget be met and also from pressure being brought to bear not only by the owner but by the manufacturers' representatives. In this regard it stems from suppliers wanting to get in the final stages of the contract certain items which otherwise would not be included.

Just how this pressure is applied can be illustrated in regard to a recent project in which at the last minute a substitution of materials was requested. Here the owner was contacted by the manufacturer's representative and given to understand that this would mean a considerable saving. Fortunately, the individual who was talking to the owner was not representing the policies of the company. However, alternates do help prevent rebidding the work where, in a number of instances, if it were not included it would either cause negotiation or redesign and a rebid of the project.

Inspection

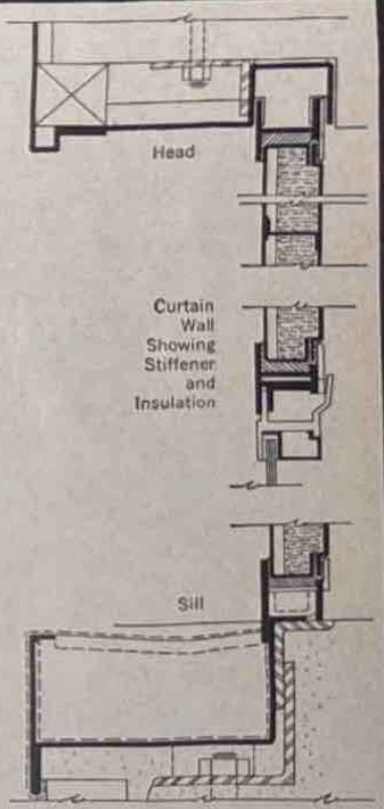
Finally, we come to inspection. We in our firm during this phase have tried our best to be as fair with the contractors and suppliers as possible. It is our endeavor to work with the job superintendent and foremen in assisting them in laying out their work rather than laying in wait in order to pounce upon them when some mistake or error is observed. This assistance greatly encourages the contractor in his relationship with the A-E and saves him time, cigars, whiskey and patience.

A digest of an address presented before the Pacific Northwest Branch, Associated General Contractors of America, in Spokane.



Puget Sound Power & Light Company Building
Harmon, Prey and Detrich; Architects & Engineers, Seattle
Cawdrey and Vemo; General Contractors, Seattle

The exterior face of the Fentron panel is porcelain enamel over 16-gauge USS Vitrenamel Sheet. Interior is 14-gauge USS Cold Rolled Sheet with insulation sandwiched between. "u" factor is .104. These panels are effective as covers for spandrels and columns, and as mullions complete with windows.



Prefab steel walls hold down building costs

UP, up, up go the costs of new building construction. One bright spot in this picture is the more economical building method using factory-built wall panels of stainless or porcelain enamel steel. These curtain walls are *fast to erect*, provide *more usable floor space*, permit earlier occupancy and sharply *reduce maintenance*. For the architect, this versatile and economical exterior treatment offers floor-to-floor panels that can be designed to harmonize with any architectural expression.

Here in the West, a number of companies have developed their versions of packaged steel walls fabricated from United States Steel Sheets. These curtain wall systems are figuring prominently in recent Western construction . . . from skyscrapers on down to one-story industrial buildings. In Bellevue, Washington, for example, the new Puget Sound Power & Light Company building (above) used curtain wall panels fabricated and erected by Fentron Industries, Inc., Seattle, Washington.

Only Steel can do so many jobs so well

United States Steel Corporation · Columbia-Geneva Steel Division
120 Montgomery Street, San Francisco 6

USS

UNITED STATES STEEL



STRUTS are painted pink.

All-aluminum dome first of its kind

- **Only 39,000 lb., it can withstand 100 psi.**
- **Built in 20 working hours at $4 per sq. ft.**

THE WORLD'S FIRST aluminum dome auditorium—49 ft. high and 145 ft. in diameter—is now in use at Honolulu's Hawaiian Village, having required only 20 working hours and a maximum crew of 38 men. Based on an unusual design which eliminates pillars or any other interior support, the shell includes a portable stage and will seat from 1,800 to 2,000 people.

Involving the creation of a spherical structure through the use of panels and struts, the clear span was designed by Kaiser Aluminum and Chemical Corp. engineers and was erected by Terminal Steel Co. of Honolulu. The panels vary in length from 9 to 11½ ft., are geometrically arranged and bolted together at their edges and form a rigid shell. Each panel is curved inward and is strengthened with the addition of an aluminum strut.

Cost of duplicating the dome would be $4 or less per square foot, Kaiser executives assert. Tests show that the 39,000-lb. dome can withstand over 100 psi.

1



No. 1: Initial installation of diamond shaped panels following erection of portable mast and rigging. Panels were fabricated in Permanente, Calif., assembled upon arrival at jobsite.

No. 2: Three-man crew is lining up panel holes with castings and inserting drift pins to hold panel in place until it is bolted.

No. 3: Interior view shows dome being lifted with hand winches at base of erection mast.

No. 4: Photo taken during second day of construction shows dome rapidly nearing completion. Panels are assembled around portable mast, then lifted so that others can be added.

No. 5: Dome is anchored to concrete piers with aluminum struts, extending from pier up to nearest gusset casting. Twenty-five piers around dome's circumference vary in height from 18 to 65 in. Pin end connection at base of strut allows dome to expand and contract.

No. 6: Star shaped gusset castings are bolted to inside of dome wherever six panels converge. Dome contains 175 of these, each 16½ in. in diameter.

No. 7: Completed dome with erection mast removed. Cover consists of five panels raised 3 in. above opening and overlapping edges.

2



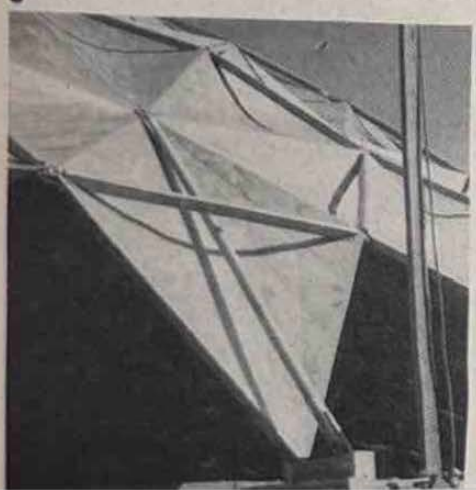
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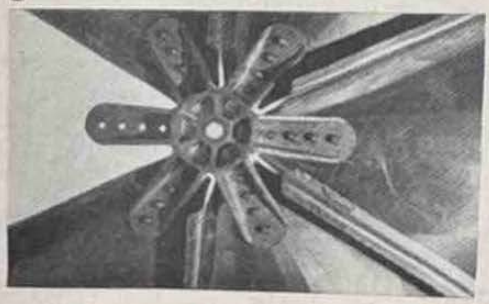
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Pointers on subcontractor relations and scheduling

by GLENN M. CANADAY

THE CONSTRUCTION of a building is a cooperative undertaking involving the joint efforts of a general contractor and many specialty contractors. The average contractor subcontracts almost everything but the concrete and carpentry work — and some even sub this. This establishes the general contractor's function on many jobs as primarily one of planning, scheduling, organization and coordination.

The scheduling and management of subcontractors' work has become increasingly important and more difficult. This has resulted from the profusion of materials being used, greater specialization among subcontractors, tighter time schedules and the multiplicity of manufactured specialties incorporated in the modern building.

The general contractor cannot undertake the scheduling of a project without carefully considering the requirements of his subcontractors and material suppliers. The ultimate construction timetable must reflect the composite needs and desires of general contractor, subcontractors and material suppliers.

Willingness to cooperate is an important contributor to job profits. The lathing contractor who finds the building ready to lathe requires less time to complete his part of the job. The plumber who is on hand at the proper time to install sleeves in the forms saves time both for himself and the general contractor. The excavating contractor, with slight additional care, can save the general contractor many hours of expensive hand excavation.

Recently on a large building job the general contractor poured the concrete roofs over small pipe tunnels without allowing the insulation subcontractor time to cover the steam pipes. Increased labor, several times his estimate, cost this subcontractor his profit.

The general contractor who turns each situation to his own advantage eventually finds himself the loser. Reputable specialty contractors find excuses for not bidding with him. Soon it begins to appear that there are fewer subcontractors bidding the jobs; he finds it increasingly difficult to assemble a successful competitive bid. If you expect to get low bids on the next job, make it easy for your subs to work with you on this one. Be as fair with them as you expect them to be with you. A subcontractor making a profit is cooperative and amenable to suggestions.

Proper scheduling of subcontractor activities promotes efficient utilization of the contractor's own labor forces. Accurate scheduling is difficult to achieve with the best of cooperation; it becomes impossible when relations are strained. Keeping the correct number of men of each trade and craft on the job doing the right work at the right time and at the proper rate of speed requires careful planning, competent supervision, frequent adjustments and above all the commensurate attitude and spirit of cooperation.

When the delivery of certain materials and manufactured items is fixed it becomes necessary for the general contractor and his subcontractors to fit their work into the construction schedule around the delivery of these strategic items. This may require the acceleration or deceleration of various phases of work. Many specialty contractors are not accustomed to making detailed schedules of their work. The preparation and study of manpower charts will point up fallacies and weak points in their construction schedules.

The construction and manpower schedules will also help eliminate time consuming and costly interferences between crafts. Seldom can any schedule be followed exactly. The schedule will establish a starting point and a goal. When work appears likely to get off schedule, the general contractor is responsible for informing his subcontractors; in turn, they must keep him informed. Frequent brief meetings will aid materially in coordinating and rescheduling work.

There is no adequate substitute for competent, cooperative subcontractors; but although the general contractor cannot always choose his associates, he can insist that they plan and schedule their work to fit in with the work of others on the job. With proper assistance in planning and scheduling, most subcontractors will perform satisfactorily.

The best way to get a man's cooperation is to make him want to cooperate. Convince your subcontractor that working to a schedule will put money in his pocket. Get him to agree to a plan of action and a definite timetable.



WHITE COAT FINISH PLASTER
... The Wall of Distinction

Whether used in modern or traditional construction, white coat finish plaster provides a wall surface that offers unlimited opportunity for decorative design, superior fire-safety, and life-time durability. It is truly the "Wall of Distinction."

For the finest of structures... for the most modest of homes... white coat finish plaster made with Ash Grove Veri-Fat Lime assures dependable soundness and attractiveness with maximum economy.



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QUICK SLAKING, HIGH-CALCIUM LIME

260 • ASH GROVE LIME & PORTLAND CEMENT CO., Kansas City, Mo. — Omaha, Nebr.

Materials – Products – Tools

and the latest literature

VINYL TILE: A floor tile that extends the scope of indoor-outdoor living can be installed on porches or patios with equal success to its traditional installation inside. Called Patio tile, the vinyl flooring may be laid over concrete, wood, steel or practically any existing surface. Felt is customarily used for a base indoors; outside, an exterior type plywood base is necessary. The tile is available in six color combinations, is unaffected by weather and impervious to oils, greases, acids, salt and ordinary solvents.—Robbins Floor Products, Inc.

(Item No. 1)

SCALE-DRAFTER: To speed the work of architects, draftsmen and engineers, Alvin is offering an adjustable scale-drafter of acrylic plastic, which can be used with a T-square or straight edge. Two beveled flat scales are securely attached to a specially designed swivel quadrant which rotates on a base form with protractor graduated on a shaped oval guide. —Alvin & Co.

(Item No. 2)

MOVABLE SHUTTERS: Paul Heinley has designed Wide Horizons movable shutters for contemporary window walls, sliding glass doors and room dividers. They can be finished to match any color becoming an important part of the decorating scheme of the interior. The 2½-in. wide louvers allow for greater ventilation when opened, for more retention of heat when closed. Panels pictured here are 30 in. wide and 7 ft. high, with the center panels double hung to fold back for full view.—Paul Heinley Movable Shutters.

(Item No. 3)



LIGHTING UNIT: Sunbeam's shallowest surface mounted luminaire, the Shallorama, is a structural element



with an apparent depth of only 2¼ in. and appears to be a recessed unit with a "dropped" Plexiglas diffuser panel extending below the ceiling line. Its width (24 in.) conceals the ballast housing above rather than within the fixture, eliminating a large, undesirable dark spot on the diffuser surface when illuminated. Normal two-screw mounting is used to secure the fixture to the ceiling; leads are pulled through a 2⅜x3-in. center knockout and connected; the diffuser is put in place without use of tools and installation is complete.—Sunbeam Lighting Co.

(Item No. 4)

COMPOUNDS: Of interest to architects, builders and interior decorators are two products being introduced under the name of 3Q compounds, which have different plastic combinations as binders and graduated sand and marble particles as fillers. They offer in one single material chemical and mechanical protection, surface texture, color and finish; they can be applied using either spray gun or hawk and trowel. Colors of unusual intensity can be attained because the pigments are not ground into the binder but rather concentrated to the filler materials.—B. M. Heede, Inc.

(Item No. 5)

ATTIC VENTILATION: Masonite has developed a method of ventilating attics through Shadowvent siding applied to gable ends, eliminating the need of louvered vents. Space sheathing — 1x3 lumber — is applied horizontally to the studs at about 1-ft. centers to accommodate the siding laps which are 12-in. wide. The vented aluminum mounting strips, on which the siding rests, are nailed to the 1x3s. Venting is held by 4-in gaps left in the aluminum strips at the midway point of the various 1x3s. Sufficient space is left by this single group of voids to ventilate the attic of a small house. In a larger residence, the voids may be left at intervals as frequent as 16 in. Upon completion of the gable end siding, it is recommended that pieces of screen be wedged in the voids from the inside to prevent the entrance of insects. —Masonite Corp.

(Item No. 6)

PUSH-PULL LATCH: Kwikset's low cost, push-pull latch for patio, porch and sun deck doors is available in brass, bronze or satin chrome finish. It can be quickly installed on doors ¾- to 1⅜-in. thick by boring only a single hole; the strike is flush mounted on the jamb without mortising.—Kwikset Locks, Inc.

(Item No. 7)

CONSTRUCTION PAN: The Jayhawk corrugated construction pan has weatherproofing built in with asphalt impregnation. Available in all standard sizes in lengths up to 12 ft., its original cost is lower than conventional types and the cores can be reused many times. The flange is cut to half joist width which makes for easy placement without undue measurement. The pan can be adapted to specific jobs and easily cut for installation of wiring and utilities.—Lawrence Paper Co., Construction Division.

(Item No. 8)

Latest Handbooks, Manuals and Literature

Yours for the Asking

OVERHEAD DOORS: Believed to be the most extensive and detailed manual ever produced in the garage and industrial door field, "Barcol OVER-doors Design and Specification Guide" is a multiple-ring, loose-leaf book divided into six tab-indexed sections. Full discussion of application problems covers conditions under which equipment is and is not recommended. —Barber-Colman Co.

(Item No. 9)

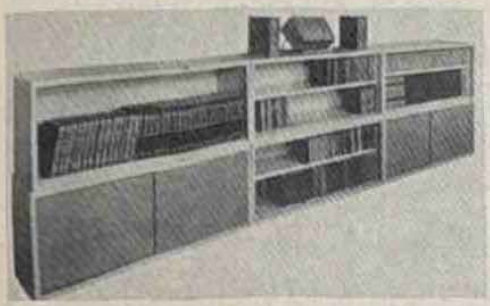
GLASS MANUAL: "Glass for Construction" outlines the uses, qualities and specifications of LOF's flat glass and Blue Ridge patterned products. In the 28 pages are a number of photographs showing the glass in use. The booklet deals extensively with Thermopane glazing information, standard sizes of sliding doors, metal and wood sash data.—Libbey-Owens-Ford Glass Co.

(Item No. 10)

FIREPLACES: Any architect or builder engaged in residential work will find "Fireplaces of Stone" a welcome addition to his reference library. The 22-page booklet runs the gamut from traditional to contemporary and even suggests types that might be appropriate for the dining room, kitchen, family room or bedroom. Several fireplaces are shown in full color. — Building Stone Institute.

(Item No. 11)

STORAGE CABINETS: One answer to storage problems in today's classrooms is described in Bulletin 600-A10.



Herman Nelson cabinets were originally designed as matching equipment for Amervent and HerNel-Cool heating, ventilating and cooling units. They are available in 24-, 36- and 48-in. lengths and may be installed singly or nested together. In addition to schools, the cabinets are finding applications in offices, libraries and workrooms. — Herman Nelson Unit Ventilator Products, American Air Filter Co., Inc.

(Item No. 12)

PLASTER, ACOUSTICAL SYSTEMS: A lot of information on vermiculite plaster and acoustical systems can be packed in an eight-page brochure. This one contains a summary of fire tests on vermiculite systems, suggested specifications and data on all uses of vermiculite in plastering and acoustical treatment, including base coat gypsum plastering, fireproofing and insulating backup for spandrel walls. Special attention is given to machine methods of applying lightweight plaster.—Zonolite Co.

(Item No. 13)

KITCHENS: While "Kitchens Sell Homes" is primarily intended for the builder, the architect too will find some useful material in its 24 pages. Republic Steel has taken the booklet out of the strictly catalog category by incorporating a concise presentation on basic work centers and kitchen layouts. The company's products in use are shown.—Republic Steel Corp.

(Item No. 14)

ROOFING: Fifteen pages of color plates showing Fire-Chex shadow blends and solid tones highlight Carey's 20-page booklet which can be used as a selling tool to prospective home buyers. Descriptions and specifications for three of the manufacturer's products—strip shingle, individual shingle and built-up roofing—are included.—The Philip Carey Mfg. Co.

(Item No. 15)

CONVERSION CHART: As an aid to estimating the amount of material necessary to insulate cylindrical vessels, Armstrong has developed a chart for converting gallon quantities into square feet of surface area It eliminates complex mathematical calculations when vessels such as domestic hot water tanks and expansion tanks are designated only by gallon size or by length and diameter.—Armstrong Cork Co.

(Item No. 16)

METAL LATH: In treating the development of the product and its modern-day multiple usage, "History of Metal Lath" becomes an educational piece for architects, contractors and engineers. The 16 pages of tables, illustrations and copy outline its uses in conjunction with accessories, ceilings, centering, ceramic tile, fireproofing, partitions, stucco and vertical furring. One page is devoted to a listing of technical bulletins available through the booklet's sponsor. — Metal Lath Manufacturers Association.

(Item No. 17)

TOILET COMPARTMENTS: A variety of floor layouts for toilet compartments, shower stalls, dressing room compartments and hospital cubicles are found in Sanymetal's 28-page catalog. Simple diagrams give data regarding mounting of stalls to floors, walls, etc., as well as dimensions of standard designs. The catalog also contains a complete set of color samples and standard specifications. —The Sanymetal Products Co.

(Item No. 18)

MOVABLE WALLS: In its 68-page 1957 catalog Mills presents a new series of aluminum partitions based on an entirely new concept in modular integration of movable interiors. The Milluminum partitions are featured in four pages of perspective drawings. The catalog also has more than 50 photographs of typical installations in commercial, industrial and public buildings, laboratories, schools and universities and other non-residential structures.—The Mills Co.

(Item No. 19)

SOUND CONDITIONING: A guide to the acoustical properties of carpets and rugs has the interesting title "Sound Conditioning with Carpet." It presents the results of a study conducted under the supervision of Dr. Cyril M. Harris of the Acoustics Laboratory, Columbia University, and has particular significance for acoustical engineers, architects and builders.—Carpet Institute, Inc.

(Item No. 20)

CONCRETE FINISH: Properties, uses and methods of applying Vitricon cold glazed concrete finish are described in a four-page brochure which contains specifications, test data and color reproductions of several applications. Vitricon is a newly developed, fast-curing finish for concrete block, wall panels, pipes and other rigid surfaces. Simply sprayed on, the cold glazed concrete mixture becomes an integral part of the surface without bonding, baking or pressure casting. It cures completely in a few hours, with physical properties approximately equal to high-strength concrete. — Vitricon, Inc.

(Item No. 21)

ALUMINUM: The latest data on Kaiser's architectural products and services is found in a 16-page catalog. "Aluminum in Architecture" offers information on such mill products as extruded shapes, sheet, plate and foil and on such building products as corrugated roofing and siding, box ribbed embossed siding, field fabricated sandwich wall panels, electrical conductor and ShadeScreen. A section on specifications and an alloy selection table are other features.—Kaiser Aluminum and Chemical Corp.

(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.

MARCH 1957

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8
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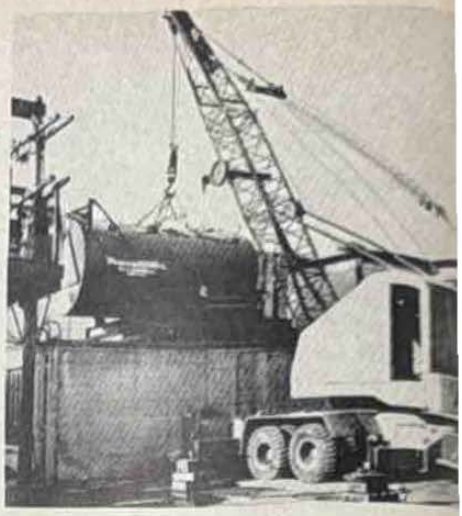
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'Upside-down' boiler installation solves space problem

When a $10 million shopping center in Bellevue, Wash., quickly outgrew its two 150-hp. firebox type boilers, heating engineers were faced with providing additional boiler power immediately and preparing for future expansion of the plant while utilizing existing fuel, water and power facilities. But ground space was too precious to build an annex to the original structure.

Consulting engineers Stern & Towne and Superior Engineering Co., both of Seattle, solved the situation by placing a 400-hp. Orr & Sembower Powermaster on the roof of the existing power plant. It has worked satisfactorily because:

1. The same square footage of ground space is being used as before although power output is more than double.



BOILER is delivered complete to its locatio hoisted into position with crane and put work as soon as power, water, flue and connections are made.

2. Putting the automatic packag boiler on the roof preserved the unit of the power plant. One operator ca handle both the old and new boiler at the same time.

3. Existing water, fuel, power an flue facilities were being used. The are to be improved soon when build ings around the plant are remodeled

4. The roof has room enough an is strong enough to hold a secon boiler of the same capacity when th need for more power arises.

5. The old boilers alone may b used during the summer months whe heating needs are light. During th winter the entire plant is operate around the clock in order to keep dis tribution lines heated.

6. The cost of putting the plant o the roof was much less than the cos of an annex to the boiler building ha space been available.

The roof installation of the Power master called for several ingeniou "upside-down" hookups. Generally de-aereating feed-water heaters ar located above the boilers they serve In this case they were placed on th lower level with the old boilers. Bull fuel pumps are placed even lowe in a pit.

With the aid of the two older aux iliaries, the new boiler provide abundant steam for the 320,000 sq. ft of stores and offices in the sprawlin Bellevue Properties during the cold est weather. Its automatic control adjust steam output to demand when outside temperatures fluctuate sharp ly.

The rear cover comes off as a unit when the chamber requires inspection. The insulated front cover also is designed for removal in sections so that the burner and other equipment need not be taken down during cleaning and inspection.

The Powermaster is a three-pass horizontal boiler. Flue gases pass through a combustion cylinder in the center, then reverse downward and pass through two passages at the top of the cylinder and to the gas outlet.

Cut hours of travel time to minutes...FLY WCA!

Serving Paul Bunyan's Empire. Fast, frequent service to 44 communities in Washington, Oregon, and Idaho. Fly West Coast Airlines... both passenger service and air freight.



WEST COAST AIRLINES

"SCHEDULED LOCAL SERVICE"

Glass in building is more than skin deep

The term "glass clad" has been applied to many new buildings of late but in the case of the new $4 million headquarters office of the American Hardware Mutual Insurance Co. in Minneapolis the meaning goes even deeper.

For here—in addition to the large expanse of windows of insulating glass and the use of Pittsburgh Plate Glass' new Spandrelite in the areas above and below the windows — a cellular glass insulation called Foamglas is used behind the Spandrelite, behind the marble column facings and on the roof and promenade deck.

The construction of the wall was interesting in that the Foamglas remained exposed to the weather for some time until the opaque, colored Spandrelite was applied over it. Being of sealed cellular, non-fibrous construction it was not affected by moisture.

Two-inch blocks of Foamglas insulation were prefabricated in a back pan of galvanized sheet metal. The pans utilized a double rubber gasket around the outer edge and were installed in the wall framework of light structural steel members. An inch of dead air space separates the Foamglas from the Spandrelite panel, making the entire finished wall approximately 3½ in. thick.

Since the building is situated on a natural wooded knoll, overlooking Lake Calhoun, the building exteriors were developed with great concern for compatability with their surroundings. The walls were designed to be reflective panels to mirror the land, lake and sky around them. To complement the setting, materials were chosen in a range of subdued grays, greens and blues.

The building, which is designed for the addition of two floors at a future date, is completely air conditioned. Two inches of Foamglas cellular glass insulation was used on the roof and promenade area.



CELLUAR GLASS INSULATION is shown here exposed to weather. Its sealed structure does not allow penetration of moisture or vapor.



"GLASS CLAD BUILDING" is understatement in $4 million project designed by architects Thorshov & Cerny, Inc. Foamglas is used in 2-in. thickness behind glass spandrels, on roof and promenade deck and behind marble column facings.

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STYLE LEADERS!

BY HAWS

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.



Model 7G



Model 7D



Model 7A

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(Since 1909)
1443 FOURTH STREET
BERKELEY 10, CALIFORNIA

Get full information in the new 1957 HAWS Catalog. Photos and detail drawings of hundreds of "style leader" fountains.



PA&B T-square talk

DIED: Julia Morgan, whose architectural achievements were closely tied to California history, died at the age of 85 in her San Francisco home early in February. A pupil of Bernard Maybeck, she designed hundreds of homes and almost as many public buildings throughout northern California. Among her projects were the castle-like home of the late William Randolph Hearst at San Simeon and the reconstruction of the Fairmont Hotel following the earthquake and fire of 1906.

Born in San Francisco, Miss Morgan was the first woman to be graduated in mechanical engineering from the University of California in 1894. She received her master's degree from the Ecole des Beaux Arts in Paris where, it is believed, she was the first woman graduate in architecture.

A retired Seattle architect, William R. Grant, 67, died after a long illness February 22. A native of Detroit, he came to Seattle in 1907 and was associated with the architectural firm of Beezer Brothers for several years. In 1924 he bought the firm, which later became William R. Grant & Son. Grant retired in 1953 but still served as advisor to the succeeding firm, Grant, Copeland & Chevenak, of which his son, Austin Grant, is a principal.

NEW PARTNERS: The architectural firm of Cushing, Terrell & Associates of Billings, Mont., has announced the addition of two partners: F. Edward Jones and Charles D. Hall, both graduates of Montana State College. The firm is now known as Cushing, Terrell & Associated Architects.

ON THE MOVE: Architect W. B. Van Gelder is now located at 15 Poppy Lane, Berkeley, Calif.

ELECTED: Kenneth P. Norrie, of Culler, Gale, Martell & Norrie, Spokane architects and engineers, has been elected president of the Spokane section, American Society of Civil Engineers. He served as 1956 president of the Spokane Construction Council.

ON PANEL: San Francisco architect Henry Hill, AIA, led a Bay area panel February 1 in a discussion of contemporary American design, held at the San Francisco Museum of Art under sponsorship of the Northern California chapter, AIA, and several design groups. Elisabeth K. Thompson, western editor of Architectural Record, also participated.

NAMED: John C. Narber, former associate with the management counseling firm of Turton Associates, Inc., Cleveland, has been appointed chief industrial engineer of the Los Angeles architectural-engineering firm of Pereira & Luckman. He attended Bucknell University and is a registered professional engineer in Pennsylvania.

Howard P. Hess has been named executive architect in charge of production for Austin, Field & Fry, Los Angeles architects-engineers.

SEMINARS: Why an architect's services are a basic necessity to building and what an architect has to offer even a low income prospective home owner were emphasized in the annual "Let's Build A House" series just finished at the Portland Oregonian Hostess House. The series of three weekly forums was sponsored by the Women's Architectural League of Oregon with Mrs. Clark Austen as chairman.

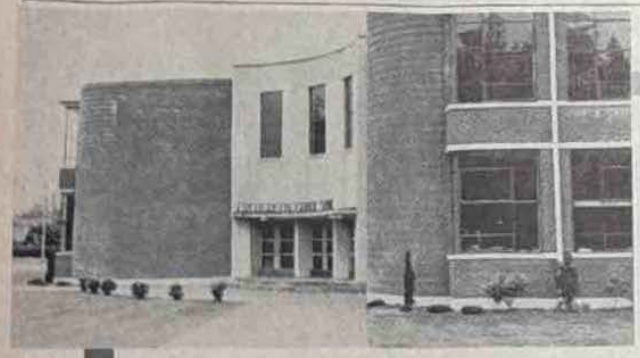
Richard W. Norman, AIA, acted as moderator. Panel members were Burton Goodrich, AIA; Thomas K. Welch, contractor; M. R. L. Smith, of the mortgage and loan department at U. S. National Bank; George Schwarz, interior designer and instructor at Portland State College; and Edward L. Erickson, who is with the Portland Bureau of Parks and also has a private practice in landscaping and site planning.

JAPANESE TOUR: The second architects' tour of Japan, patterned after the 1956 trip, has been set for next October, which is that country's most colorful season and ideal traveling weather. Starting from San Francisco, the tourists will spend a day in Hawaii en route and three weeks in Japan, flying both ways.

Kenneth M. Nishimoto, AIA, of Pasadena, who will lead the tour, will be assisted by English speaking guides. Those who wish more details may write to Nishimoto at 263 S. Los Robles, Pasadena, Calif.

PLANNER: Robert S. Baldwin has been appointed director of the Multnomah County (Ore.) Planning Commission, following the resignation of Lloyd Anderson at the year's end. Baldwin had been a senior planner with the commission and formerly was with the Portland Planning Commission and the Portland Housing Authority. Anderson is now with the Municipal Research Bureau at the University of Oregon.

A roundup of centennial celebrations of West Coast AIA chapters will appear in PA&B for April.



architect: CHARLES V. RUEGER

contractor: Lewis Construction Co.

mason contractor: FRED R. BOEDECKER

Bold Architectural Design Featuring

Chehalis Brick

Distinguishes Shelton Grade School Building

The warm colors and pleasing texture of Chehalis Brick, combined with a bold new design concept by the architect, has made the Evergreen Grade School at Shelton one of Washington's finest examples of contemporary school architecture. CHEHALIS SELECT COMMON BRICK—permanent, practical, fire-safe—is used in effective contrast to provide lasting dignity and quality to the structure.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON



Designed for 1,750 students, Hillsdale High School in San Mateo occupies more than five acres on an attractively landscaped site of 35 acres.

California school features exposed structural steel

New schools are going up fast. And it's heartening to see today's vastly improved buildings, in most of which steel has a vital part. An outstanding example, shown above, is the Hillsdale High School, San Mateo, California.

Using interior skylights instead of windows, this modern, one-story structure is planned so that classrooms and corridors can be partitioned in almost any way to meet changing conditions. New materials and new concepts in design have won the warm praise of teachers and parents.

As for the students, most of them never dreamed of the advantages they're now enjoying: functional, well-lighted classrooms; well-equipped shops; gymnasium and auditorium; cafeteria, swimming pools and even a theater!

Here, as in so many of today's new schools, the architects relied on structural steel to provide the rugged framework of the building. The structural steelwork was supplied by Bethlehem Pacific.

Strong, fire-resistant, and adaptable to a variety of architectural forms, structural steel greatly reduces the number of supporting columns required. And steel in many forms is helping to stretch tax dollars in planning more new schools.



Exposed structural steel, both exterior and interior, adds to the eye appeal.

School District Superintendent: Thomas F. Reynolds. *Architects and Engineers:* John Lyon Reid & Partners; Burton Rockwell, partner in charge; Dr. Alexander G. Tarics, structural engineer. *General Contractors:* Rothschild, Raffin & Weirick and Northern Constructors. Steelwork by Bethlehem Pacific.

BETHLEHEM PACIFIC COAST STEEL CORPORATION
General Offices: San Francisco

BETHLEHEM PACIFIC

BETHLEHEM STEEL



TYPICAL OF LIVE-WIRE PUBLICITY issued by Producers' Council is photo of Seattle's Mayor Gordon Clinton being invited to Home Building Caravan by Ralph Yoder, who heads Washington State Chapter. Looking on are Gordon A. Mowatt, Seattle Chapter, AGC; Peter Hostmark, Structural Engineers Association of Seattle; James J. Chiarelli, Washington State Chapter, AIA; and Fred Dally, Home Builders Association of Greater Seattle—all presidents of their respective organizations.

Blueprint for better architect and producer relations

Here's how they do it in the Puget Sound country

THE ROLE of Producers' Council, Inc., in the construction industry is brought sharply into focus as the Home Building Caravan wends its way up the West Coast to display the ware of 28 manufacturers and associations to those who specify or purchase materials.

Organized 35 years ago as a producers' committee of the American Institute of Architects, the council now is a separate organization but works closely with its architect members, as well as home builders, general contractors and lumber dealers to provide the latest and most important data about building products. The caravan is just one method of achieving this objective.

Each month in 40 chapters across the land and in Hawaii producers break bread with architects, generally at a luncheon meeting. How to set up a successful informational program always presents a challenge.

That challenge has been met in Seattle where the Washington State Chapter last year doubled the attendance of architects at its meetings. The national organization was interested in learning how the Seattleites went about to accomplish this and invited Ralph Yoder to tell his story at the chapter presidents' conference in Cleveland last fall.

To reach its goal of increased attendance, the program committee early in summer decided on a program that would attempt to include the 45 members of the PC chapter. First, they grouped their members by interests and discovered that they could select several topics that might interest the architects and also include a number of producers. For example, the subject of metal covered about seven members; floor coverings seemed to include about five.

After several meetings between the PC program committee and the AIA construction industry relations committee, they agreed on six topics for the coming year: modern heating trends; resilient floors; metal curtain walls; glass, present and future; clay products for the atomic age; and, for a change of pace, a panel to consider architect-producer relationships.

The committee found that 30 members would be active participants in these six sessions. This left 15 who were divided into four committees to have charge of four special events —president's dinner, Christmas party, caravan and field day. After the year was over, the chapter reported that every member actively participated.

Briefly here are the details which go into a typical informational meeting. The PC program chairman, in conjunction with his equivalent in the AIA, contact members who will be interested in presenting the topic for the forthcoming session. Those who accept have a dry run with the PC coordinator. On the day of the program, displays are set up in the meeting room at least 15 to 30 minutes before the luncheon starts. The time schedule is as follows: 12—lunch; 12:45—program; 1:30—questions and examination of products. Those who wish to leave at 1:30 can feel free to do so.

The 45 minutes alloted to the program is divided by the topic group in any way that its panel desires. At one meeting seven members each covered a different phase of the general subject and aptly demonstrated what can be said in six minutes if the speaker is truly prepared.

BUILDING LITERATURE COMPETITION WINNERS

(The following list of winners in the 1957 national competition co-sponsored by Producers' Council and the AIA does not include honorable mentions.)

CLASS 1: Literature concerned primarily with basic technical information.

EXCEPTIONAL MERIT

Aluminum in Modern Architecture (2 Vols.), Reynolds Metals Co.

CERTIFICATE OF MERIT

Alloys and Mill Products, Aluminum Company of America.

Reinforced Concrete Floor Systems, Portland Cement Association.

Metal Lath, Metal Lath Manufacturers Association.

Wood Structural Design Book, National Lumber Manufacturers Association.

Fir Plywood, Douglas Fir Plywood Association.

Woodwork Brochure Portfolio (a series), Architectural Woodwork Institute, James Arkin, AIA, editorial consultant.

Class 2: Literature offering technical information confined to particular products of a single manufacturer.

EXCEPTIONAL MERIT

Grant Sliding Hardware—Catalog 1956, Grant Pulley and Hardware Corp.

Built-up Roof Specifications, United States Gypsum Co.

CERTIFICATE OF MERIT

Noise Control Products, Owens-Corning Fiberglas Corp.

Truscon Curtain Walls, Truscon Steel Division, Republic Steel.

Pittsburgh Doorways, Pittsburgh Plate Glass Co.

Facts and Data on Resilient Floors, Congoleum-Nairn, Inc.

Industrial Insulation Manual, Owens-Corning Fiberglas Corp.

Ceco Shortspan Open-Web Steel Joists, Ceco Steel Products Corp.

Brick Size Vents in Cast Aluminum, Construction Specialties, Inc.

Flour City Metal Windows, Flour City Ornamental Iron Co.

Class 3: Literature of primarily promotional character.

EXCEPTIONAL MERIT

Fir Plywood Design Ideas, Douglas Fir Plywood Association.

CERTIFICATE OF MERIT

Acme Brick in Colors, Acme Brick Co.

Beautiful Walls with Concrete Masonry, Portland Cement Association.

Tone (a series), Armstrong Cork Co.

Ceco Metal Products (a series), Ceco Steel Products Corp.

Palos Verdes Stone, Great Lakes Carbon Corp.

For Modern Exteriors, Masonite Corp.

Class 4: Space advertising directed primarily to the architect

EXCEPTIONAL MERIT

Mineral Acoustical Tile, United States Gypsum Co.

CERTIFICATE OF MERIT

Characteristics of Floor Tile (a series), Kentile, Inc.

Knoll Products (a series), Knoll Associates, Inc.

A Success Story (a series), Marble Institute of America.

Expanded Metal, United States Gypsum Co.

PA&B Suppliers

• **Bethlehem Pacific Steel Corp.** has purchased land to erect a building which will house its western headquarters on a site bounded by Davis, Sacramento and California streets in downtown San Francisco. The new offices, to accommodate 300 employees of the steel division, will allow the shipbuilding division to remain at its present site with necessary expansion at 20th and Illinois streets.

• **Unit Masonry Association** of Portland has elected Paul Nutt of Smithwick Concrete Products Co. as president. Other officers are Richard Carper, vice president; Ralph Holm, secretary; and Kenneth Bergstrom, treasurer.

• **California Redwood Association** has chosen Hugh J. Jacks of The Pacific Coast Co., Willits, as president, Philip T. Farnsworth, executive vice president, and Selwyn J. Sharp, secretary-treasurer, have been reelected.

• **Layrite Products Co.** of Spokane has named Robert H. Hopkins as treasurer and a director; Paul Grewell, assistant treasurer and assistant secretary. Hopkins has been manager of community operations for General Electric Co. at Richland, Wash., for the past six years.

• **Permanente Cement Co.** has appointed Frank L. Crosby of Oakland as manager of public relations for the firm and its subsidiaries. He has been public relations director for Kaiser Gypsum Co. for the past 1½ years.

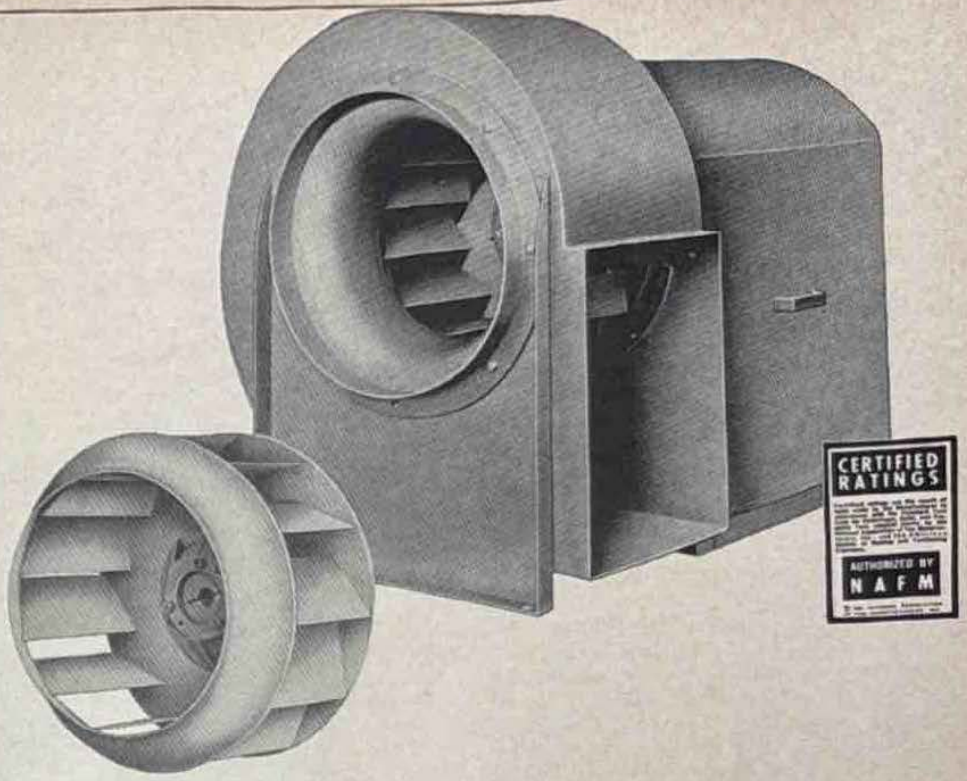
Permanente also has named William E. Viall Jr. as sales representative for the Fresno-Bakersfield area.

• **Triangle Steel and Supply Co.** has appointed Emery Johnston, formerly assistant sales manager of Southwest Steel Rolling Mills, to handle sales in the Los Angeles Airport industrial area.

• **Northwestern Portland Cement Co.** of Seattle has reelected its slate of officers, headed by president Gordon Tongue of Seattle and board chairman James D. Burns of Condon, Ore.

• **General Concrete Products, Inc.,** has opened warehouse facilities at 20345 Walnut Drive, Walnut, Calif.

• **Pleatwood Doors, Inc.,** of Everett, Wash., manufacturer of solid wood folding doors and room dividers, has

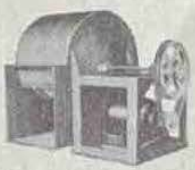


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appointed the following distributors: Lester E. Houser Distributing Co., Billings, Mont.; Allfir Lumber Co., Everett; Northwest Builders Hardware, Inc., Seattle; and Spokane Venetian Shade Co., Inc., Spokane.

• **Columbia-Geneva Steel Division** of United States Steel Corp., with headquarters in San Francisco, has appointed Leslie B. Worthington of Chicago as president, succeeding the late Alden G. Roach. For the past 11 years Worthington has headed the parent company's supply division, whose main offices are in Chicago.



WORTHINGTON

Following graduation from the University of Illinois, the new president began his career with U. S. Steel as a sales apprentice at the South Chicago works of Carnegie-Illinois Steel Corp. He later was attached to the Detroit and Pittsburgh sales offices and in 1942 was elected vice president of the supply division, becoming president in 1946.

Worthington is a member of the executive committee of the American Steel Warehouse Association and of the American Iron and Steel Institute.

• **Pacific Coast Engineering Co.** of Alameda, Calif., has named C. Dean Ramsden as vice president and general manager and Charles H. Zweifel as chief engineer.

• **Arcadia Metal Products** of Fullerton, Calif., has promoted William R. Mason from production to chief engineer and has named David F. Smith as sales representative for the San Gabriel Valley in southern California.

• **Westinghouse Electric Corp.** has appointed William G. Hinckley as Pacific Coast regional manager of its elevator division, with headquarters in San Francisco.

• **Insulation Board Institute** has elected G. L. Oswald of Simpson Logging Co., Shelton, Wash., as vice president.

• **General Electric Supply Co.** has opened a 12,800 sq. ft. distribution center at 735 Coleman Ave, San Jose, Calif., with A. Rohl Barnes as sales manager and Phil E. Paul as store manager.

• **Vermiculite Manufacturing Co.** of Seattle has appointed Andre Baudat executive vice president of the firm, which plans to double production of brick at its plant in the Ballard district.

• **American Fabricators** has promoted its Seattle office manager, Wallace B. Wold, to general sales manager at the home office in Bellingham, Wash. Ray E. Fiedler will take over as Seattle office manager.

BUILDERS

• **Home Builders Institute** of Oran and Los Angeles counties has nam these officers: George M. Pardee J president; Milton J. Brock Jr., fi vice president; Ben C. Deane, secon vice president; John D. Griffith, se retary; Ray K. Cherry, treasurer.

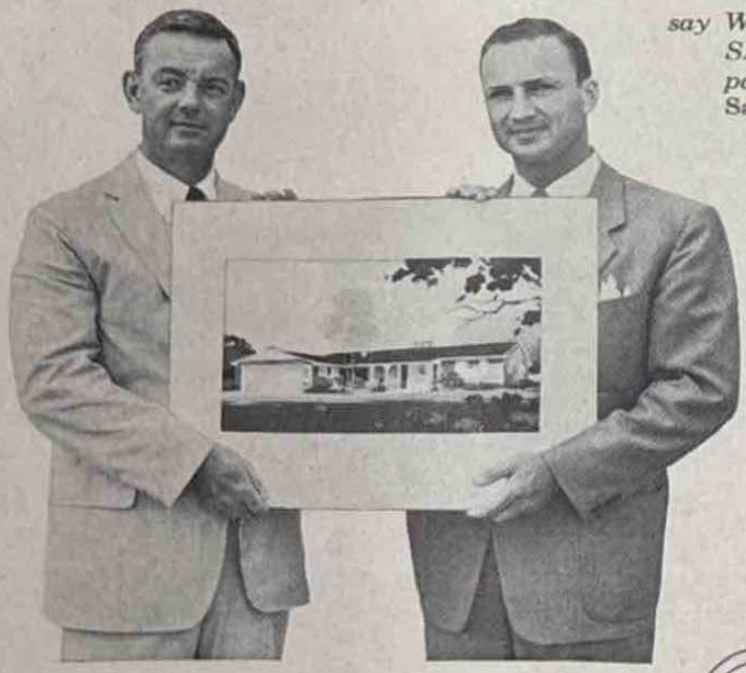
• **Associated Home Builders of t Greater East Bay,** which has move to new headquarters in the Hot Claremont, Berkeley, has appointe Charles W. Hudson to direct a ne labor relations department.

• **Building Contractors Association California** has elected Bob F. Rober of San Bernardino as president. Com pleting the slate of officers are Fran Yates, first vice president; Leo Voll second vice president; Stuart L. Sey mour, secretary; and Warren Hanb treasurer.

• **Inland Empire Chapter, Nation Electrical Contractor Association,** h named these officers, all of Spokan Rod Anderson, president; Gordo Smith, vice president; Paul Brigg treasurer, L. M. Stewart, governor

• **Oregon Columbia Chapter, Nation Electrical Contractors Association,** h reelected its president, J. A. McCo and its governor, S. I. Jaggar. Othe officers are S. S. Adams, vice pres dent, and A. R. Johnson, treasurer.

Buyers look for telephone planning in today's homes



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100 years, Frank Lloyd Wright and us (Cont'd from p. 13)

West year in and year out? Have you ever visited that place—and I am second to none in those who admire his architecture in those two houses but he treats them like slaves.

I don't think there are any of us who can deny his position. I wonder if all of us realize exactly what we do get, and I mean from the earlier Wright naturally, in all our work. I wonder if we realize what it would have been had he not changed the course of architecture single-handed from 1900 to 1910. It was he, don't forget, who made roofs, walls, wainscoting and floor all independent of each other—independent elements of design.

But there is a gap which I still mean to point out and to me that happened in the architectural revolution of 1923, the internationalization of design which was based very much on Frank Lloyd Wright's own work. Of course I speak of the pioneers like Gropius and Corbusier and Mies van der Rohe who independently, after the first world war, came to a type of design which gradually has spread over the entire Western world. It was a great deal of synthesized Wright. The elements were Wrightian but they were something more: they regarded the structural elements more than Wright ever did or still does.

Mr. Wright is very careless about how his buildings are held up once he has the way of looking at them settled. We would not dare—even his admirers—to build a building as casually as he does. Fortunately his son-in-law is an excellent engineer and will see to it afterwards that there is enough steel put into the wood in houses to insure the cantilevers from drooping too much—but they still droop.

However, Mr. Wright is cavalier about that. The younger men coming along in 1923 were not cavalier about that. Mies, of course, is the most extreme. He insists that structure is the element, the essence of architecture, and the arrangement of the elements within that frame—to him steel, of course, since it is the most American material — is what architecture is all about. He takes a very strong stand against Wright's romanticism and I think that that has had an effect on every one of us; it has had its effect right here in the Northwest in spite of the much stronger influence of Wright here than anywhere else in the country.

Where are we now standing at this 100-year point? We ought to be standing at the threshold of the greatest architectural period in history; everything conspires to it. We have more buildings than the world has ever seen in a shorter time, more square feet. We have more money than any culture ever had at any time, within such a short time. We certainly have the architects.

Do we then have the principles that any of us can read in history books? Are we really convinced that right now are being designed the Taj Mahal, the Parthenon, the Chartres Cathedral? I don't think any of us will claim that we are in any such period and yet what elements are lacking?

There is only one lack and that is that there is no will in our culture to build; there is no desire in our culture that building be of any great importance.

Where did we get off the track, as I believe we are? To me, it's to be blamed on commercial committees, not on us. We don't mind spending money; rather it's the timidity of our culture in which we live, the setting up of dollar values for things which cannot be measured by dollars and cents—beauty. Our great corporate cliends, or government clients for that matter, give nothing for beauty.

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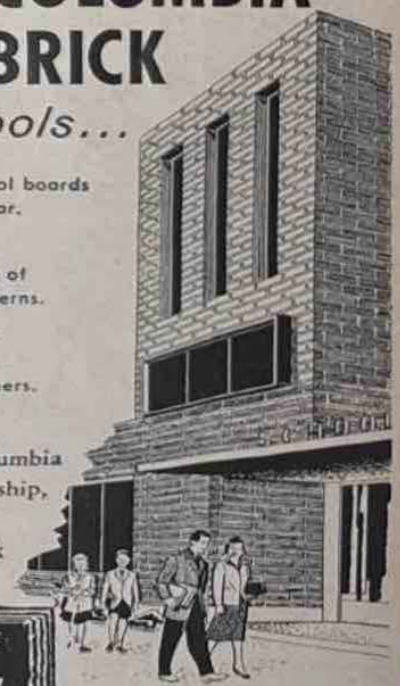
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tects will be necessary at all. Because of the economy, look what happens. If you build schools, what do the school boards say? "How many dollars per student, how many dollars per square foot and how many square feet per student"? And what do you spend your time doing: cutting costs or building beautiful buildings? It is now becoming so that if you build a religious building, they will say, "How many dollars per pew?" How many dollars per square soul, perhaps, as a starter.

I think maybe that we, as architects who shouldn't be, are getting a little bit influenced by the point of view of the world around us. We cannot be ivory tower artists. We cannot sit it out if people don't like our designs. We've got to go on building. We've got to go on because of our office, because of our children.

Do you think we ought to be quite so businesslike in our approach? We make our firms the way lawyers make theirs, not the way artists make firms. McKim, Meade & White are all dead. It's still a big firm because there's value in it, a dollars and cents value in writing Stanford White's name (he was shot in 1906), which is very strange—it's the only country in the world where this happens; it is the only civilization in which this has ever happened.

Now there are, of course, some architects willing to starve and sit it out.

There is a man like Louis Kahn of Philadelphia, of whom was said in the recent Harper's magazine that if there is a genius in Philadelphia it's Louis Kahn. He's built one building there since the war. There is a man like Bruce Goff in Oklahoma. There is a man like Alexander Girard—all right, he doesn't have an architectural degree; I'm afraid I don't think that's terribly important. I think that what's important is how to mold space excitingly. Perhaps you have seen those magnificent colors he used to organize his own home in Santa Fe, N. M. Sure, that's the only work he's ever done but that doesn't mean he's not a great architect—well, let's not use the word "architect"; let's say "a shaper of space."

Because, after all, what are we here for? One wonders exactly what is the purpose of being an architect? It surely isn't only to put food in our mouths. There are other ways of doing that—a great deal easier and more remunerative.

* * *

But I wish to end with the same man I started with: a man that never gave up; the great American that perhaps we can admire at the same time we dislike him as much as I do—Frank Lloyd Wright. There is a man who creates space for its own sake and has never paid any attention to any other thing.

Have you ever been to Taliesen in Arizona? I think that it is an experience which you can afford yourself. And I would plead with you to go before he is gone. He is 88; he is as brilliant and cantankerous and magnificant as ever. But the spirit will go out of the place when he is gone.

He has developed one thing which I will defy any of us to equal: the arrangements of secrets of space. I call it the hieratic aspects of architecture, the processional aspects. I would like to tell you about it briefly.

You drive up from Phoenix, about 20 miles out, up a dusty desert road, wondering why you came because it's terribly hot, and you go up a slight rise. Finally you turn into a piece of particularly dusty, nasty and ill-kept road. But there is a little sign that says "Frank Lloyd Wright."

You come to an conglomeration of tents and stones where the car stops. There is a low wall and you realize after you have been there and come back again, that he has been pushing out the spot where the car stops, further and further from his place. I'd like to recommend that to you and to me too. The car, of course, is one of the deaths of architecture. It's out of scale, it makes noise, it doesn't please the eye. And you cannot, from a sitting position, even look at architecture. It has to be by the actual use of the muscles of your feet.

He now makes you walk about 150 ft., until you get closer to this meaningless group of buildings. You've seen the plans many times and I'm sure you didn't understand them anymore than I did before I'd been there.

As you approach, he starts you off on a slight slope, with the mountains to your left, and so up the first steps you go, away from the buildings instead of toward them. And how he takes your eyes and makes them follow. You go down the steps this way but the buildings are over there.

Then the steps turn at right angles and you go between two low walls, very much narrower this time. You have the sensation that you are always changing your point of view on the buildings.

You turn, you pass his office, you climb four more steps and pass a great stone that he has put there with Indian hieroglyphics on it, which he found on his place. There is no door in sight. There is a tent roof on a stone base but no door; there is nothin in sight. You just begin to wonder.

Then the path takes you down a long walk, about 200 ft. perhaps, with this tent room on your right, the mountains on your left.

You begin to wonder what is happening when, at your right you pass the tent room, the building above goes on overhead. But the view separates—the two enormous piers—and you look again (a trick) through a dark room, a 6-ft. room, out into the terrace of Taliesen West: an enormous prow that sticks out over the mountains.

Now you've been climbing all this time and you never knew it because you never looked back; but for the first time, you realize you have been climbing and for 90 miles you look across the desert through that darkened hole. And again, of course, the steps start rippling. You go down three steps and then down three steps more and you are pulled out onto this prow of the desert. He calls it his "ship of the desert." That's where Frank Lloyd Wright is usually standing to greet you with his purple hair, his cape, and you say, "Now I've arrived at this magic place."

But you've just begun the trip. He then leads you through a gold-leaf concrete tunnel that turns three times and you are pushed out into the most single exciting room that we have in this country. It is indescribable except that you can say that the light, since it all comes from the tent above, has infiltered and mellowed.

You are just beginning to absorb this room when he opens a few of the tent flaps and this it when it really hits you. You look out—but not onto the desert. You look out this time on a little private secret garden that he has built beyond this room where water is playing unlike any water in the desert. The plants are 20 ft. high in this garden and there is a lawn such as you have seen only in New England.

You say, "Now I see what I've come to Taliesen for"; you have not. He makes one more turn, two more turns. This time the door is 18 in. wide and you have to go through sidewise. It is entirely an inside room, no desert or garden. One wall is of plants. To be sure, you cannot see them; that is, you can't see through them but that gives you the jungle light that comes into the room. There is a shaft of light that comes from 12 or 14 ft. above (this is a very high room now). The room is 21 by 14 ft., all stone. One entire length of it is the fireplace; on the other long wall is a table and two chairs—and that is where you have come to be. You sit down with Frank Lloyd Wright and he says, "Welcome to Taliesen."

My friends, that is the essence of architecture.

Construction News Bulletin

Vol. 63—No. 5 (PA&B) News Section of Pacific Architect and Builder March 16, 1957

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BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

●HEATING SYSTEM— Agate Beach, Ore.

Bids will be opened 2 p.m., March 26, by 13th Coast Guard District, room 618 2nd Ave., Seattle, for installation of a hot air heating system in Quarter A Dwelling at Yaquina Bay Light Station, Agate Bay, Ore.; Inv. No. FS-1544. Specifications with above office. Completion time 60 calendar days. SP 3-12

BOWLING ALLEY— Albany, Ore.

Preliminary plans underway by Thomas Albert Smith, architect, 1001 Lowman Bldg., Seattle, for construction of a concrete block 34-lane bowling alley, on the Villa Plaza Shopping Center, in Albany. Contract for construction will be negotiated by R. C. Trauger, owner, 129 W. 1st Ave., Albany, with Merritt Construction Co., Fife, Wash. SP 3-5

CHURCH— Ashland, Ore.
(Estimated cost $70,000)

Bids will be called in mid-summer by Lady of the Mountain Parish, Rev. Father Ernest J. Jackson, pastor, Ashland, for construction of a new 7,000 sq. ft. Catholic church at Ashland. Plans will be complete about July by Morrison & Howard, architects, Williams Bldg., Klamath Falls. Only the nave portion of the church is expected to be constructed during 1957 building season and bids will be called progressively as plans are approved by the church. ZZ 3-9. Previous report 10-4

●FLOORING— Bonanza, Ore.

Bids will be opened 2 p.m., April 2, by Faye Weimer, chairman of Bonanza Women's Club, at the library in Bonanza, for laying of vinyl or asphalt tile or linoleum in the auditorium and kitchen of the library. ZZ 3-12

■SCHOOL ADDITION— Cascadia, Ore.

Planholders announced for addition of 60'x82' wood frame multipurpose room to Cascadia grade school. Bids will be opened 8 p.m., March 18, by Linn County School District No. 58, Clerk, Cascadia, Ore. Plans with John K. Smeed, architect, 8313 S.W. Barbur Blvd. Portland. $30 deposit.

Planholders: Raymond W. Lillie, 1213 W. 14th Ave., Albany; Cutts Construction Co., 472 "E" St., Lebanon; John M. Steinmuller, Jr., 907 W. 3rd, Eugene; Clayton Potter, 838 W. 17th St., Albany; Albert Vik & Son, 160 Madison St., Eugene; Allen C. Lawson, 2520 S.W. Hamilton Court, Portland; Sweet Home Construction Co., 1010 3rd Ave., Sweet Home; Thomas E. Gates & Son, 120 Oak Lane, Lebanon. WB 3-13. Previous report 3-6

COUNTY SHOPS ADDITION—Eugene, Ore.
(Estimated cost $16,000)

Don Lutes, architect, U.S. National Bank Bldg., Springfield, has been retained by Lane County Commissioners, Robert Straub, chairman, Courthouse, Eugene, to prepare plans and specification for a 1,600 sq. ft. addition to the county shops building, Roosevelt Blvd., Eugene. Construction is to start in July. DW 3-5

▲MARKET— Eugene, Ore.

Bids received in the office of the architect by K. D. Gilbert, Inc., 3416 Wood Ave., Eugene, for construction of a 110'x178' supermarket as the first unit of a complete shopping center in Fairfield Village, between Highway 99 and Elmira Road, Eugene. Plans by Graham Smith, architect, 1230 Oak St., Eugene. Bids opened March 4. A complete bid tabulation has not yet been released. LOW BIDDER: Gale Roberts, 338 W. 11th, Eugene. No amount released. DW 3-13. Previous report 2-28

▲CABINET, COUNTER INSTALLATION— Florence, Ore.

Bids received by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction and installation of kitchen cabinets and eating counter for the two kitchens in the duplex quarters at Heceta Head Light Station, Florence; Inv. No. FS-1540. Bids opened March 11. TWO LOW BIDS: Mathre's Cabinet Shop, 714 Florence Ave., Astoria, $2,032 (basic bid), $1,782 (alt. 1-A), $1,622 (alt. 1-B); Everett R. Bauerman Newport, $2,218, $1,898, $1633. HI BID: Frank's Cabinet Works 360 W. Nickerson, Seattle, $4,724, $3,984, $3,684. SP 3-12. Previous report 3-1

HOTEL KITCHEN REMODELING— Fort Klamath, Ore.

Contract will be negotiated soon by Claude Hibbert, lessee of Fort Klamath Hotel dining room, Fort Klamath, for electrical work involved in installing a commercial electric bake oven in the hotel kitchen for use in a commercial bakery to be operated this summer in connection with the kitchen. Owner of hotel building is J. Quince Bell. ZZ 3-12

●■COUNTY BUILDINGS— Grants Pass, Ore.

Bids will be opened 10 a.m., March 18, by Josephine County Commissioners, Courthouse, Grants Pass, for construction of two county buildings, including a 24'x40' gas and lubrication building and an 80'x140' maintenance shop, to be located at the county fairgrounds near existing road department facilities at Grants Pass. Plans with above office. $25 deposit.

Planholders: Southern Oregon Construction Co., 925 S.W. Greenwood Drive, Grants Pass; Ausland Construction Co., Manchel Bldg., Grants Pass.

Concrete slab; concrete block walls; glued laminated arch roof support; gas fired heating system; overhead crane in shop, 15' wall height. SC 3-9

■GRADE SCHOOL, GRADE SCHOOL ADDITION— Hermiston, Ore.

Planholders announced for 20-classroom Sunset School, and two additions to West Park Elementary School, all reinforced concrete construction. Bids to be opened 8 p.m., March 20, by School District No. 8,Unified. Homer Gray, clerk, Superintendent's office, Hermiston. Plans with Annand, Boone & Lci, architects, 1530 S.W. Taylor St., Portland.

Planholders: A. Ritchie & Co., P.O. Box 326, Walla Walla, Wash.; H. G. Carl Construction Co., P.O. Box 387, Salem; George W. & M. S. Irwin, Canby; Riverman & Sons, 1230 N.E. 63rd Ave., Portland; George A. Moore & Associate, 923 S.W. 17th Ave., Portland; Jensen-Rasmussen & Co., P. O. Box 89, Sunnyside, Wash.; Sterner Construction Co., 13845 S.E. Rhine St., Portand; Fred W. Carter Co., Inc., 6034 N.E. 60th Ave., Portland; Grubb, Johnson & Rose, Crees Bldg., Corvallis; Walt Eiering, 2150 N. 1st, Hermiston. WB 3-13. Previous report 3-2

★SAVINGS AND LOAN BUILDING; STORE— Hillsboro, Ore.

Award by Washington Federal Savings & Loan Association, Alf Johnson, executive vice president, 3rd and Main strets, Hillsboro, for two adjacent reinforced concrete buildings on Main St., Hillsboro. Plans by Logan & Murtaugh, archtects, 1940 S.W. 4th Ave., Portland. AWARD: E. E. Setter-

gren, 3723 S.E. 21st Ave., Portland, $194,615 (award based on completion time of 160 days). LOWEST BID: James S. Hickey, Inc., 523 S.E. Stark St., Portland, $194,000 (completion time, 210 days). 3RD LOW: Enger Bros., 620 S. Hall St., Beaverton, $194,723 (160 days). Bids opened March 6.
WB 3-9. Previous report 3-7

★HOTEL CONVERSION— Klamath Falls, Ore.
(Estimated cost $4,500)

Contract negotiated with John J. Banta, 916 E. Main St., Klamath Falls, by Otto Erlandson, owner, 804 Klamath Ave., Klamath Falls, for remodeling a one-story 22'x120', brick building located at 806 Klamath Ave. into a 16-room hotel. Robert Erlandson of 804 Klamath Ave. will supervise the contract, and electrical and plumbing work will be subcontracted by the owner and general contractor. Insulated plywood partitions will be used in the remodeling.
ZZ 3-8

★CITY HALL REMODELING— Klamath Falls, Ore.

Contracts negotiated by City Council, City Hall, Klamath Falls, for enlarging the office of Mayor Lawrence Slater from 12'x14' to 15'x24' and for constructing a 12'x12' fireproof map vault in the office of City Engineer E. A. Thomas, City Hall, Klaamath Falls. AWARDS: William T. Moore & Son, Merrill Highway, Klamath Falls, for bricklaying and masonry; East Side Electric, 433 Market, Klamath Falls, for electrical work; Carl D. Ewing, 4016 Ezell Ave., Klamath Falls, for plastering. Carpentry work is being done by union carpenters hired from the central labor council. Work includes mahogany veneer wall paneling, acoustical board and plastered walls.
ZZ 3-8

★RESIDENCE— Klamath Falls, Ore.
(Estimated cost $40,000)

Contract negotiated with A. G. Silva, 1244 N. Eldorado, Klamath Falls, by Lawrence Slater (mayor of Klamath Falls), Slater Insurance Agency, 134 N. 7th St., Klamath Falls, for construction of a residence to be located at the corner of Hillside and Auburn streets in Klamath Falls. Plans by Morrison & Howard, architects, Williams Bldg., Klamath Falls.
ZZ 3-8. Previous report 2-22

CATHOLIC CHURCH— Klamath Falls, Ore.

An architect will be retained soon by Rev. Father George Murphy, pastor, Klamath Falls, for construction of a multipurpose building for a new Catholic parish on Bristol Ave. in Klamath Falls. A rectory will be built later on the 15-acre tract and ultimately an entire church structure will be constructed on the property. Two multipurpose building will contain an auditorium, four classrooms and kitchen.
ZZ 3-12

CEMENT PLANT EXPANSION—Lime, Ore.
(Estimated cost $3,000,000)

Plans announced by Oregon Portland Cement Co., 111 S.E. Madison, Portland, for an addition to the plant at Lime, Ore., to provide additional cement for the Idaho Power Co. dams on the Snake River in Idaho. A new kiln to produce 2,400 barrels of cement each day and a 31-ton raw grind mill are being installed.
SC 3-9

▲AUTOMOBILE DEALER BUILDING— Medford, Ore.

Bids received in the office of the architect for construction of a 45'x147' concrete building at 225 S. Riverside Ave. in Medford, for Medford Motors, Inc., 6th and Ivy, Medford. Plans by Robert J. Keeney, architect, 32 N. Central Ave., Medford. Bids opened March 4. LOW BIDS: Loren Ritchie, 912 S. Oakdale, Medford, $76,833; Jack Batzer, Medford, $77,873; Minshall Construction Co., Box 154, Jacksonville, $91,916.
SC 3-8. Previous report 3-2

STUDENT UNION— Newberg, Ore.

Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, engineer, 325 Henry Bldg., Portland, have been retained by George Fox College, Milo C. Ross, president, Newberg, to draw plans for a student union building on the campus. Construction on the first unit is scheduled to start this summer. It will include student lounge, bookstore, snack bar and soda fountain, council room, publication office and chapel.
WB 3-9

●HIGH SCHOOL— Pendleton, Ore.

Bid opening extended from March 26, to 2 p.m., April 2, by Pendleton School District No. 13C, Wallace McCrae, superinendent, 515 S.W. 4th St., Pendleton, for construction of a new high school, to be located on the golf course at the site of the Pendleton Country Club, in Pendleton. Plans with Culler, Gale, Martell & Norrie, archiects, Realty Bldg., Spokane. $100 deposit.
LL 3-12. Previous report 2-26

★HIGH SCHOOL— Oakridge, Ore.

Award to Grubb, Johnson & Rose, Box 127, Corvallis, $437,470, by Oakridge School District No. 76, Paul Elliott, superintendent, Oakridge, for construction of a 43,000 sq. ft. senior high school building next to the existing high school at Oakridge. Plans by John Smeed, Frank Shell and Charles Hoyt, associated architects, 8313 S.W. Barbur Blvd., Portland.
DW 3-13. Previous report 3-1

REMODELING— Portland, Ore.

Architect Roscoe Hemenway, Cascade Bldg., Portland, retained by Pacific National Advertising Agency, Milton A. Foland, Portland manager, Cascade Bldg., to prepare plans for renovation of three-story residence at 829 N.W. 19th Ave. for use by the agency.
WB 3-1

CHURCH— Portland, Ore.
(Estimated cost $50,000)

Working drawings under way by Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland, for Vermont Hills Methodist Church, Rev. Eugene H. Walters, pastor, 5504 S.W. Iowa St., Portland, for a new church at S.W. 55th Drive and Iowa St. Bid call to be issued about mid-April.

First unit of 4,600 sq. ft. will contain temporary sanctuary seating 120 persons with provision for overflow crowd, eight classrooms, study, rest rooms, kitchen and storage areas; parking for 105 cars. Classroom section will be two-story with window walls. Frame construction with concrete slab floor; flat roof; natural wood stained exterior; asphalt tile flooring; acoustical ceilings. Main sanctuary building will be built at a later time.
WB 3-6

BRANCH BANK— Portland, Ore.

Bid call to be issued about May 1 by First National Bank of Portland, C. B. Stephenson, president, 404 S.W. 6th Ave., Portland, construction of a new 84'x116' building to house the Southeast Portland Branch at S.E. 28nd Ave. and Foster Road. Plans underway by Jensen & Gilham, architects, 2266 N.W. Lovejoy St., Portland. Front of bank will feature offset pylons; circular interior will be finished in wood paneling; includes partial basement, mezzanine covering half the building to house employe lunchroom, mechanical room and storage vault; twelve tellers windows; large vault equipped with same deposit boxes; drive-in banking facilities; existing building will be removed to provide parking space after new quarters are occupied.
WB 3-6. Preivous report 12-26

▲BUILDING ALTERATIONS—Portland, Ore.

Bids received by Port of Portland, John J. Winn, general manager, 5848 N.E. Lagoon Ave., Swan Island, Portland, (P. O. Box 4099), for revisions to the Port's office building at above address. LOW BIDS: Beaver Constructors, 5301 N.E. Portland Highway, $2,081; E. E. Sprinkling & Sons, 4549 N.E. 33rd Ave., $2,334; A. C. Bardi General Contractor, 8105 S.E. Duke St., $2,475. Of Portland. Bids opened March 6.
WB 3-8. Preivous report 2-22

▲ELECTRICAL WORK— Portland, Ore.

Bids received by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for replacement of existing lighting fixtures, lighting panels, receptacles and switches with new Class II, Group G equipment; installation additional lighting capacity throughout grain elevator at Terminal No. 4, Portland. LOW BIDS: Owen & McIntyre Construction Co., Oregon Shipyards, and L. W. Hemble Electric Co., 4701 S.E. Belmont St., (Joventure) $40,331; Tide Electric Co., 820 Russell St., $41,512; Rose City Electric C 4012 N.E. Cully Blvd., $44,604. Of Portland. Bids opened March 6.
WB 3-9. Previous report 3-

★ANIMAL COMMISSARY, PADDOCKS— Portland, Or

Award to Paul B. Emerick, 4540 S.E. 174th Ave., Portland, $421,000, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for construction of Contract Group 5, Portland Zoological Gardens, consisting of animal commissary building; paddocks and paddock-shelter buildings for hoofed animals; miscellaneous appurtenant work, such as grading, paving, sprinklers, drainage and other utilities. Plans by Lawrence, Tucker & Wallman, architects, 920 Failing Bldg., Portland.
WB 3-9. Previous report 3-

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

Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland, selected by Portland Exposition-Recreation Commission, Carvel Linden, president, 623 Park Bldg., Portland, to design Portland's proposed exposition-recreation center, to be located on the east side of the Willamette River. Selection of architect had been delayed pending a court decision regarding powers of the commission.
WB 3-12. Previous report 11-

●YMCA NORTH PORTLAND BRANCH BUILDING— Portland, Ore

Bids to be opened 12 noon, March 27, in the office of Whittier & Fritsch, architects, Dekum Bldg., Portland, for construction of the North Portland Y.M.C.A. Branch Bldg. in Walnut Park area. Select list of bidders.

L-shaped structure, 100'x200', with basement and ground floor; includes space for club meetings, craft and hobby activities, youth and adult interest groups, kitchen and all-purpose room. Reinforced concrete and some frame construction; Roman brick veneer and cedar siding; built-up mineral roofing; aluminum horizontal sliding sash; asphalt and vinyl plastic tile flooring; plaster wall finish; mineral and fiberglas ceilings; hot water heating; fluorescent and incandescent lightin. Swimming pool to be added later.
WB 3-12. Previous report 1-

●PAROCHIAL SCHOOL (Mechanical Electrical and Sub-Contracts)— Portland, Ore.
(Estimated cost $150,000)

Mechanical and electrical bids will be opened at 8 p.m., March 19, Academy, 44 N.E. Morris St., Portland for Units A and B of Marycrest School for Girls, 2916 N.E. 132nd Ave., Portland. Plans with J. H. Rudd, Jr., architect, 2744 S.W. Rutland Terrace. $20 deposit. Sub-bids will be received by general contractor, Clifford Orth Construction Co., 13245 N.E. Sacramento Drive, until March 19.

The campus type plan will be developed over a period of several years for 550 girls and an adjoining convent and chapel. Initial construction includes heating plant, custodian's quarters and a four-classroom unit. Concrete slab on grade; frame construction with some brick veneer; composition roofing; asphalt tile flooring; insulation; wall board interior finish; metal lockers; metal toilet partitions; chalkboard; fluorescent and incandescent lighting; oil-fired, low pressure steam boiler; leaching well; steam tunnel; unit plumbing.

Engineering consultants are James & Honey, structural, Portland Trust Bldg.; W. Bruce Morrison, mechanical, Cascade Bldg.; Grant Kelley & Associates, electrical, 1001 S.W. 6th Ave., all Portland.
WB 3-13. Previous report 7-12

■PHOTOGRAPHIC LABORATORY— Portland, Ore.

Planholders announced for alterations to Administration Bldg., University of Oregon

Medical School, 3181 S.W. Sam Jackson Park Road, to provide approximately 1,500 sq. ft. of photographic laboratories. Bids to be opened 2 p.m., March 20, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene, Ore.), at room 117, Faculty Council Room, above address. Plans with Burns, Bear, McNeil & Schneider, 2940 S.E. Belmont St., Portland.

Planholders: Teeples & Thatcher, 8850 S.E. Otty; A. C. Bardi, 8105 S.E. Duke St.; Charles S. Camplan, 2035 S.W. 58th Ave.; E. Carl Schiewe, 1024 N.E. Davis St.; Beebe Construction Co., 2134 N. Flint Ave.; Heigele Home Construction Co., 4034 N.E. 18th Ave.; H. A. Starr Concrete Construction Co., 2425 N. Commercial Ave.; Gene Settergren, 1625 S.E. Woodward St.; Russ Todd, 9335 S.W. Fir Grove Lane; Selwyn Bingham & Sons, Builders Exchange Bldg. All of Portland.

WB 3-13. Previous report 2-20

▲PAROCHIAL SCHOOL— Portland, Ore.

Bids received by Catholic Archdiocese of Portland, Edward D. Howard, archbishop, 2053 S.W. 6th Ave., Portland, for wood frame addition to Assumption Parish parochial school, N. Smith St. and N. Burr Ave. Plans by Jacobberger, Stanton, Franks & Norman, architects, 512 McKay Bldg., Portland. LOW BIDS: Norman Builders, 2805 S.W. 3rd Ave., $53,524; Sterner Construction Co., 13845 S.E. Rhine St., $55,226; E. E. Settergren, 3723 S.E. 21st Ave., $55,482. Of Portland. Bids opened March 8. WB 3-13. Previous report 2-27

HOME FOR THE AGED— Salem, Ore.

Bids will be called about April by The Methodist Home, Ethel B. Calf, superintendent, 1625 Center St., Salem, for construction of a concrete addition to the home. Plans by James L. Payne, architect, 725 S. Commercial St., Salem. Reinforced concrete walk; brick veneer; steel stud partitions; rock lath and plaster interior walls; ceramic tile, rubber tile, asphalt tile flooring; aluminum sash; built-up roofing; plaster ceilings, suspended acoustical tile ceilings in corridors; steel stairs.

CP 3-5. Previous report 1-19

YWCA SWIMMING POOL— Salem, Ore.
(Estimated cost $100,000 to $125,000)

Construction wil start early in 1958, if financing is assured by June of this year, for the 28'x60' YWCA swimming pool to be located on Winter St. in Salem, for the Young Women's Christian Association, 768 State St., Salem. Plans are now being prepared for the preliminary fund drive which will start soon. The present YWCA building is so constructed that the addition of a pool wing will not require major structural change. SC 3-2

★BLIND SCHOOL BUILDINGS— Salem, Ore.

Award to H. G. Carl Construction Co., P.O. Box 387, Salem, $386,587 (basic plus alternates), by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem, for wood frame gymnasium and reinforced concrete infirmary, administration building and dining hall at Oregon State School for the Blind, 700 S. Church St., Salem. Plans by Jacobberger, Stanton, Franks & Norman, architects, 512 McKay Bldg., 408 S.W. 3rd Ave., Portland.

WB 3-12. Previous report 3-9

GOLF COURSE, CLUBHOUSE—Stayton, Ore.

Plans complete for a campaign to finance construction of the Santiam Golf Club, including an 18-hole golf course and clubhouse, located along Highway 22 at the Sublimity-Stayton Junction, 11 miles from Salem by the new route, according to John Davis, president, Stayton. Plans for the clubhouse by Louis Schmerber, architect, 3085 N. River Road, Salem. First step in the venture will be to complete the first nine holes on the 110-acre site. SC 3-8

★MAINTENANCE HEADQUARTERS BUILDING— Umatilla, Ore.

Award to The Timber Co., Hermiston, $60,348, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of a maintenance headquarters building at McNary Switchyard, Umatilla County, Ore.; Inv. No. 8278.

WB 3-8. Previous report 2-26

● SECURITY BUILDING, FIRE STATION— Umatilla, Ore.

Bids will be opened 2 p.m., April 9, by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla, for construction of a security building and fire station, McNary Lock and Dam, near Umatilla, Ore.; CIVENG-45-164-57-60. Specifications with above office. Bid bond 20%. Quantities: 160' concrete curb removal; 135 sq. yd. concrete wall removal; 300 sq. yd. asphaltic concrete pavement; 90 sq. yd. concrete sidewalks; 170' concrete curbs; 170' drain line; 90' sewer line; 300' underground 2" ducts; 1,950' conductor. SP 3-8

WASHINGTON

■ PHANTOM LAKE SCHOOL— Bellevue, Wash.

Planholders announced for construction of the four-classroom wood frame Phantom Lake Elementary School on 160th S.E. in the Lake Hills area east of Bellevue, on which bids will be opened 2 p.m., March 19, by Bellevue School District No. 405, King County, George B. Brain, superintendent, Box 67, Bellevue. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle.

Planholders: Strand, Inc., 1801 N. 34th, Seattle; Sanford Wright, 302 Clark Bldg., Everett; Ballard Contractors, 4601 6th N.W., Seattle; Glacier Construction Co., 5536 Coniston Road, Seattle; United Construction Co., 3627 Findlay, Seattle; Noel Construction Co., 11014 Main, Bellevue; Roxbury Homes, 226 109th S.E., Bellevue; Ed Brehm, 9406 N.E. 32nd, Bellevue; Burien Construction Co., 4126 S.W. 106th, Seattle.

SC 3-9. Previous report 2-27

HOSPITAL ADDITION—Bellingham, Wash.

Working drawings underway by Naramore, Bain, Brady and Johanson, architects and engineers, 904 7th Ave., Seattle, for construction of two reinforced concrete additions to St. Luke's General Hospital, Jersey and Chestnut streets, Bellingham. Bids will be called in May by O. H. Overland, hospital administrator. The existing wood frame wing will be removed. New wings will be three-story and basement and one-story and basement with concrete walls; some brick veneer; concrete slab floors; composition flat roof; metal furring and studs; plastered walls and partitions; resilient flooring; plaster acoustical ceilings; some hollow metal doors; aluminum sash; oil fired steam heating system; sprinklers in basement. DM 3-6

SUPERMARKET— Bremerton, Wash.
(Estimated cost $70,000)

Construction underway by D & R Construction Co. of Tacoma for a 10,000 sq. ft. concrete block supermarket on Perry Ave. in the Forest Park Addition to Bremerton, for John Tycz, 3231 Perry Ave., Bremerton. Foundations have been poured for the building which is to be completed about May 1. The structure will have a paved parking area with a covered ramp extending the length of the lot and will accommodate about 250 cars. SC 3-8

● BANK— Bremerton, Wash.

Bids will be opened 2 p.m., April 3, in the office of the architect, by National Bank of Commerce, main office, 2nd and Spring, Seattle, for construction of branch bank on the corner of 6th Ave. and Pacific in Bremerton. Select list of bidders. $25 deposit. Bid bond 5%.

Plans with George W. Stoddard-Huggard & Associates, architects and engineers, 1120 Harvard Ave., Seattle.

One-story and mezzanine; reinforced concrete walls with ceramic tile exterior wall finish; steel joists; 4-ply built-up roof; concrete slab floors; interior walls plastic wall covering; acoustical ceilings; aluminum windows; hardwood slab interior doors; aluminum exterior doors; fluorescent lighting; oil fired hot water heating system with air ventilation. PD 3-13. Previous report 2-22

● HEATING PLANT, INCINERATOR— Cashmere, Wash.

Bids will be opened 8 p.m., March 25, by Cashmere School District No. 122, Lloyd G. Berry, clerk, at the school district office, Cashmere, for installation of a new heating plant and an incinerator at the high school in Cashmere. Plans with Stanley Webster, consulting engineer, Lowman Bldg., Seattle, and with Alvin Erickson, architect, Central Bldg., Wenatchee. Separate bids for the heating plant and for the incinerator.

SP 3-9

■ SCHOOL ADDITIONS, ALTERATIONS— Centralia, Wash.

Additional planholders announced for additions and alterations to the Edison Elementary School in Centralia, on which bids

Damp-proof Concrete with ANTI-HYDRO

For concrete walls and foundations, be sure you specify Anti-Hydro, the integral water-proofer. This concrete sealer and primer hardens concrete, prevents freezing, makes it more water-resistant.

Anti-Hydro is backed by a 5-year maintenance guarantee. To damp-proof concrete, stucco and concrete blocks, specify Anti-Hydro on your next job. Write or phone Pioneer for details.

PIONEER SAND & GRAVEL CO.

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will be opened 8 p. m., March 20, by Centralia School District No. 401, Hayes Holman, superintendent, 415 W. Pear St., Centralia. Plans with William Arild Johnson & Associates, architects, First National Bank Bldg., Everett.

Planholders — GENERAL: Lee Wagner Construction Co., 302 W. High St., Centralia. MECHANICAL: Longview Plumbing & Heating, 1146 Commerce, Longview; Centralia Plumbing Co., 316 S. Tower, Centralia; Lent's, Inc., 279 4th St., Bremerton. ELECTRICAL: James Electric, 1504 Market St., Chehalis; Pioneer Electric, 735 Commerce, Longview; Lent's, Inc., Bremerton; War-Mur Electric, 312 S. Iron St., Centralia; Wooster Electric, Castle Rock.

HH 3-13. Previous report 3-5

SCHOOL ADDITION— Cheney, Wash.

Plans announced by Cheney School District No. 357, Dr. W. A. Gamon, chairman of the board, Cheney, for construction of a six-classroom addition to the Edward F. Betz Elementary School, N. 7th and Oakland streets, Cheney. MH 3-6

★ELEMENTARY SCHOOL—Dishman, Wash.

Awards announced by Orchard Park School District No. 43, Clarence O. Pence, superintendent, West Valley High School, Millwood, for construction of the new Dishman elementary school. Plans by George M. Rasque & Sons, architects, 303 Washington Trust Bldg., Spokane. AWARDS—GENERAL: Purvis Construction Co., Box 64, Yardley, $413,547. MECHANICAL: Russ Owens Plumbing & Heating, 1020 N. Washington, Spokane, $94,065. ELECTRICAL: D. G. Quinton Co., 1413 N. Divison, Spokane, $45,205. LL 3-12. Previous report 3-1

★HOSPITAL— Ephrata, Wash.

Awards announced by Public Hospital District No. 3 of Grant County, Larry Nixon, president, City Hall, Ephrata, for construction of the new Columbia Basin Hospital in Ephrata. Plans by Gordon Lumm, architect, 321 S. 11th, Tacoma. AWARDS—GENERAL: Mowatt Bros. Construction Co., 2833 Eastlake, Seattle, $314,302. MECHANICAL: W. R. O'Rourke, Inc., 339 S. 2nd Ave., Walla Walla, $224,000. ELECTRICAL: Ace Electric Co., 3525 N.E. Broadway, Portland, $50,530. EMERGENCY GENERATOR: Regan Electric Co., 11 S. Wenatchee Ave., Wenatchee, no amount noted. SP 3-8. Previous report 1-30

ETHYL DISTRIBUTION PLANT— Everett, Wash.

Plans announced by Ethyl Corporation of America for the establishment of its central distribution point in Everett to supply additives to Northwest refineries. The 205'x 403' property included in the lease made by the corporation lies between Columbia Hardboard Co. and property leased by American Piledriving Co. on the 14th St. Fill site in Everett. The installation in Everett, for distribution, will serve the refineries now constructed and those planned for construction in the Pacific Northwest. SC 3-9

HEATING UNIT CONVERSION— Everett, Wash.

Bids rejected by City Council, City Hall, Everett, for conversion of the existing sawdust burning unit to a fuel oil burning unit in the Riverside Fire Station.

SC 3-9. Previous report 2-28

NIKE SITE HOUSING UNITS— Fairchild AFB, Wash.

Plans underway for construction of 64 new family units for AAAC personnel and four Nike sites in the Fairchild AFB defense area near Spokane, for Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle. Plans by Whitehouse, Price, DeNeff & Deeble, architects, Hutton Bldg., Spokane. The units are being designed in a duplex arrangement with the two garages between the living units. Eight buildings, or 16 units, will be constructed near each of the four Nike sites with one housing group being in Cheney, one in Medical Lake, another at Deep Creek and the fourth out in the country. SP 3-7. Previous report 2-14

●■AAA FACILITY MODIFICATION— Fairchild AFB, Wash.

Bids will be opened 10:45 a. m., March 18, by U. S. Air Force, Procurement Office, Fairchild AFB, for modification of AAA facility in Bldg. 202, Fairchild AFB; IFB 45-613-57-62. Specifications with above office.

Planholdes: AAA Construction Co., 739 N. Helena; C. J. McGovney, E. 2719 Mt. Vernon; H. C. Grendahl, N. 2128 Waterworks; Lester N. Johnson, 1318 N. Fancher Way; Loveland Construction Co., 728 N. Cook; J. L. Mathews, E. 703 40th; Walter G. Meyers & Son, Box 5011; Northwestern Construction Co., E. 1518 20th; P. & B, Inc., E. 8903 Main; A. J. Popp Construction Co., W. 205 29th; Combs Construction Co., N. 6014 Nettleton; Hefte Construction Co., 11607 E. Trent; Vista Construction Co., S. 803 Park Road; Warner & Brwon, 2904 N. Madelia; Purvis Construction Co., Box 64, Yardley; Ruud Construction Co., Realty Bldg.; Sceva Construction Co., 2928 N. Madelia; Smith & Roberts, Box 6086; Harold Stallings, E. 1321 18th; Fred Starkey, 1706 S. McCabe Road; Ed Stevens, 11904 E. 19th; Jack Stewart, 5615 N. Audubon; Forster Bros., E. 408 Garland. All of Spokane.

IL 3-12

★INDUSTRIAL ARTS BUILDING— Federal Way, Wash.

Awards announced by Federal Way School District No. 210, King County, Kenneth C. Jones, superintendent, Federal Way, for construction of a 16-room one-story, 27,000 sq. ft. concrete industrial arts building at the high school. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle. AWARDS—GENERAL: Leavitt-Chandler & Co., Lake Washington, Shipyards, Houghton, $295,630. MECHANICAL: Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue, $97,168. ELECTRICAL: Glassy-Roth Electric Co., 221½ S. 38th, Tacoma, $36,897.

PD 3-9. Previous report 2-15

★CHAPEL LIGHTING— Fort Lewis, Wash.

Award to Jardeen Electric Co., 1232 S. Sprague, Tacoma, $2,330 by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for replacement of lighting fixtures in the naves of Chapels No. SC-30 and C-E-48 at Fort Lewis; AVI-45-106-57-126. SP 3-13. Previous report 2-26

●■VETERINARY CLINIC WING REPAIR— Geiger Field, Wash.

Bids will be opened 2 p. m., April 3, by U. S. Air Force, Procurement Office, Geiger Field, for repairing the northwest wing of the veterinary clinic, Bldg. No. 1333, Geiger Field; IFB 45-614-57-84. Specifications with above office.

Planholders: Warner & Brown, Inc., 2904 N. Madelia St.; A. J. Popp Construction Co., W. 205 29th; Walter G. Meyers & Co., 1407 N. Calispel; Vista Construction Co., S. 803 Park Road; Allied Construction Co., Inc., Box 6516; S. G. Morin & Son, W. 411 2nd Ave.; Joe Forster, E. 408 Garland; Stewart Construction Co., 9103 N. Division; Loveland Construction Co., 728 N. Cook; Starkey Construction, Inc., 1703 S. McCabe; P & B Co., Inc., 8903 Main; Sceva Construction Co., Inc., E. 2928 Madelia. All of Spokane.

LL 3-12

★WATER SEPARATOR HOUSE— Geiger Field, Wash.

Award to Loveland Construction Co., N. 728 Cook St., Spokane, $5,885, by U. S. Air Force, Procurement Office, Geiger Field, for construction of an electrically heated water separator house at Geiger Field; Inv. No. 57-75. SP 3-13. Previous report 2-28

HOSPITAL— Ilwaco, Wash.

R. E. Newhall, architect, 1329 Broadway, Longview, has been retained to prepare plans and specifications for the Ocean Beach Hospital, Sam Dennison, chairman, Ilwaco. MH 3-9

★HIGH SCHOOL PLANT— Kettle Falls, Wash.

Awards announced by School District No. 196, Elmer E. Dubes, superintendent, Kettle Falls, for construction of a new high school plant at Kettle Falls. Plans by Culler, Ga... Martell & Norrie, architects, Realty Bl... Spokane. AWARDS — GENERAL: Al... Construction Co., N. 3511 Market, Spoka... $277,446. MECHANICAL: Warren, Little ... Lund, W. 120 2nd, Spokane, $80,420. ELE... TRICAL: D. G. Quinton, N. 1413 Divisi... Spokane, $32,656.

LL 3-8. Previous report 1-...

COCKTAIL LOUNGE— Lind, Wa...

Plans announced by Harry Kasper, own... of Gateway Cafet, Lind, for construction ... a cocktail lounge addition to the cafe ... Lind. MH 2...

★HIGH SCHOOL— Millwood, Wash.

Awards announced by West Valley Unio... High School District No. 302, Clarence O... Pence, superintendent, Administrative Of... fices, Millwood for construction of the 3... classroom high school in Millwood. Plans by George M. Rasque & Son, architects, 3... Washington Trust Bldg., Spokane. AWAR... —GENERAL: Purvis Construction Co., Bo... 64, Yardley, $279,027. Due to lack of fund... the second floor cannot be completed at th... time. MECHANICAL: Russ Owens Plumb... ing & Heating, 1020 N. Washington, Spokane... $74,960. ELECTRICAL: D. G. Quinto... 14113 N. Division, Spokane, $33,983.

MH 3-13. Previous report 1-...

★BRICKWORK— Milton, Wash.

Award to Walter E. Gurrah, Box 284... Tacoma, $1,488, by Town Council, Town Ha... Milton, for completing brickwork on the ci... hall in Milton. Bids opened February ... and held under advisement.

SP 3-9. Previous report 1-...

ELEMENTARY SCHOOL—Montesano, Wash.
(Estimated cost $300,000)

Plans underway for a bond election to b... held by Montesano School District No. 1... 419 Spruce East, Montesano, to finance co... struction of a new elementary school ... Montesano. Plans by Jensen & Mills, archi... tects, 308 S. Tacoma, Tacoma. Plans call f... a U-shaped structure consisting of tw... wings connected by a 60'x80' allpurpo... room at the base of the "U." A paved pl... area will be located between the wings.

MH 3-6. Previous report1-...

●OFFICE BUILDING— Morton, Wash.

Bids will be opened 2 p. m., April 8, b... Lewis County PUD No. 1, office of th... manager, Lewis County, Chehalis, for co... struction of an office building in Morto... Plans with R. W. Beck and Associates, co... sulting engineers, 1505 Tower Bldg., Seattl... and the above office. $15 deposit. B... bond 5%.

One-story; concrete block; 2,500 sq. f... concrete slab on grade; air conditione... electric heat. PC 3...

LUMBER MILL— Naches, Wash.
(Estimated cost $201,400)

Construction will start immediately for ... 24'x36' lumber mill in the vicinity ... Naches, for Layman Lumber Co., Golde... dale, under the supervision of G. S. Schre... ken, Yakim manager. Frame structur... pitched shingle roof; building to cost $1,4... with electric equipment to cost $200,000.

IG 3...

●HIGH SCHOOL, First Phase— Neah Bay, Wash.

Bids will be opened 3 p. m., March 3... by Cape Flattery School District No. 4... Clallam County, Glen O. Willison, superi... tendent, Clallam Bay, for construction ... the first phase of a new high school pla... at Neah Bay. Plans with Ralph Burkhar... architect, 2120 S.W. 152nd, Seattle. $35 d... posit. Bid bond 5%.

One-story; 6,200 sq. ft.; tilt-up concret... walls; concrete slab-on-grade floors; glue... laminated beams; wood roof decking, built... up roofing; cement-asbestos interior par... titions; plastic ceilings and skylights; wood... sash; vinyl asbestos flooring; built-up cabi... nets; chalk and tack boards; oil fired ho... water heating system with fin convectors...

PC 3-9. Previous report 2-1...

GRANDSTAND ENLARGEMENT— Omak, Wash.
(Estimated cost $20,000)

Plans announced by the Omak Active Cub, Gordon LaCoy, stampede chairman, Omak, for construction of new seating at the Omak Stampede arena to replace the oldest section of the grandstand. The 315' long section of grandstand will be 15 rows high and will seat more than 265 spectators. Construction will start in May. SC 3-9

▲SCHOOL ADDITIONS— Othello, Wash.

Bids received by Othello School District No. 147-165-55, Lutacaga Elementary School, Othello, for construction of additions to the high school building, including gymnasium, homemaking and music sections, in Othello. Plans by Victor Louis Wulff, architect, 1526 W. Riverside, Spokae. Bids opened March 7. LOW BIDS—GENERAL: Pete Young, 1211 E. Columbia, $190,000; Purvis Construction Co., Box, Yardley, $190,814; Nelse Mortensen, 1021 Westlake N., Seattle, $191,685. MECHANICAL: Grant County Plumbing & Heating, Box 1567, Moses Lake, $29,648; Warren, Little & Lund, W. 120 2nd, Spokane, $30,750; J. P. Head Box 596, Pasco, $31,434. ELECTRICAL: Briggs Electric N. 1303 Monroe, $83,157; Kehne Electric, N. 416 Helna, $89,472; Electric Smith, E. 123 Sprague, $89,992.
LL 3-12. Previous report 3-5

★POST OFFICE ALTERATIONS— Port Townsend, Wash.

Award to Service Electric Co., 12305 32nd Ave. N.E., Seattle, $58,436, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to the U. S. Post Office and Custom House, including driveway work, at Port Townsend; Proj. No. CR-10-430.
SC 3-13. Previous report 1-26

ELKS TEMPLE RENOVATION— Puyallup, Wash.

Plans underway for renovating the Puyallup Elks Temple at 427 Meridian N. in Puyallup, after the $15,000 fire loss which occurred February 10, according to Exalted Ruler Paul Meyer. SC 3-12

MEDICAL CENTER— Puyallup, Wash.

Plans announced by Puyallup Planning Commission, City Hall, Puyallup, for construction of a medical center on a tract which lies between 5th Ave. and 6th Ave. on 2nd St. N.W. in Puyallup. The proposed building would be faced with brick or stone and off-street parking facilities would be availabe for 40 cars. SC 3-12

CITY BUILDINGS— Raymond, Wash.

Plans announced by City Engineer F. E. Clark, City Hall, Raymond, for city building projects for which about $50,000 is now available. Included in the program are the following: 56'x80' city shop and general utility building with 28' L-addition ($17,000 estimate) to be located on 5th St. north of Blake, for the city water and street departments; new police department headquarters to be located at Commercial and 2nd streets; heavy equipment storage and material warehouse. Plans for the shop building prepared by South Pacific Planning Service, South Bend. MH 3-12

★HIGH SCHOOL REMODELING— Ridgefield, Wash.

Award by School District No. 113, Clark County, Union Ridge School, Ridgefield, for remodeling at the high school. Plans by McCoy & Bradbury, architects, 7007 Highway 99-N, Vancouver. AWARD: Larry O. Collins, 7017 Highway 99-N, Vancouver, $19,630. OTHER BIDS: Nirman Construction Co., Vancouver, $20,808; Art's Cabinet Shop, Ridgefield, $21,408; Clifford Parker, 3410 Grant St., Vancouver, $23,397. Bids received March 5. WB 3-9. Previous report 2-22

★SUPERMARKET— Ritzville, Wash.
(Estimated cost $35,000)

Award to Walter Eckhardt, Ritzville, no amount noted, by Jack Richmond, owner of the R & H Market in Ritzville, for construction of a new 72'x112' concrete supermarket on U. S. Highway 10 at Ritzville. Completion is expected by July 1. MH 3-13

HIGH SCHOOL PLANT— Rosalia, Wash.
(Estimated cost $180,000)

Bids will be called in March by Rosalia School District No. 256, Rosalia, for construction of an eight-room masonry grade school building, extending west of the present elementary school building, and farm shops facilities for Rosalia. Plans by Victor Louis Wulff, architect, W. 1526 Riverside, Spokane. Construction was authorized by a $30,000, 12-mill levy approved in the February 15 election.
SP 3-8. Previous report 1-10

★SALMON CREEK ELEMENTARY SCHOOL— Seattle, Wash.

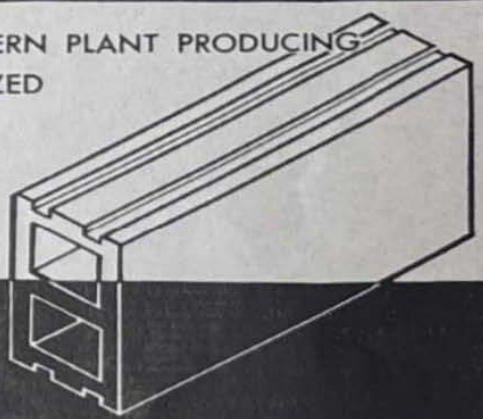
Awards announced by Highline School District No. 401, King County, Carl Laudenbach, business manager, Administration Bldg., 253 S. 152nd, Seattle, for construction of two four-room cluster type buildings and one multipurpose building connected by covered walkways to the existing Salmon Creek Elementary School, 614 S.W. 120th, Seattle. Plans by Steinhart, Theriault and Anderson, architects, Eastlake and E. Galer, Seattle. AWARDS—GENERAL: Glacier Construction Co., 5536 Coniston Road, $156,000. MECHANICAL: Dolman Plumbing & Heating, 11751 15th N.E., $14,235. ELECTRICAL: Industrial Electric Co., 1828 Yale, $41,847. All of Seattle. Construction will begin before April first.
PD 3-8. Previous report 3-7

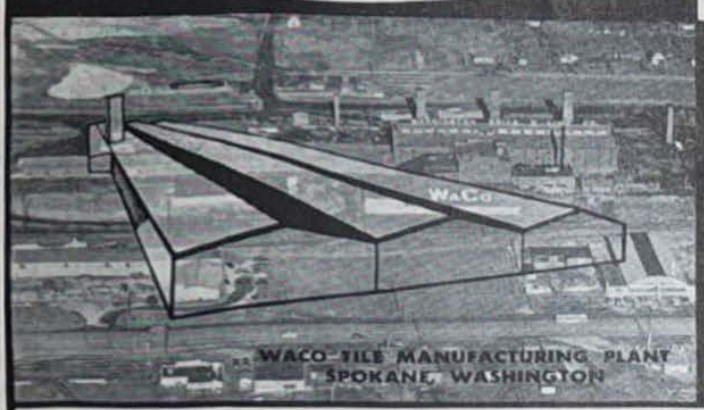
▲ASPHALT TILING— Seattle, Wash.

Bids received by Department of the Army, Procurement Division, room 300, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for asphalt tiling of floors at the terminal; Inv. No. TC 45-045-57-76B. Bids opened March 8. LOW BIDS: Commercial Floor Co., 1802 Fairview N., Seattle, $777; Elite Shade & Linoleum Co., 2929 Blakely, Seattle, $895; Armstrong Tile Co., Inc., 433 Fairview N., Seattle, $939.
SP 3-9. Previous report 2-20

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● **STORE—** **Seattle, Wash.**

Bids will be opened 2 p. m., March 25, in the office of the architects, by the owner, Ralph Rhodes, 5041 Willson Ave., Seattle, for construction of a 12,000 sq. ft. Thriftway Store at 820 Empire Way, Seattle. Plans with Steinhart, Theriault & Anderson, architects, 1264 Eastlake, Seattle.

Concrete block walls; steel beams; steel roof deck, built-up roof; concrete slab floor, asphalt tile; ceiling-hung volume gas heaters. PD 3-9

● **SAFEWAY STORE—** **Seattle, Wash.**
(Estimated cost $150,000)

Bids, to be postmarked by midnight March 23, will be received by Safeway Stores Inc., Construction Department, 1200 Westlake Ave. N., Seattle, for construction of a 103'x175', slab-on-grade, concrete block, food market at 7400 Bothell Way near E. 74th and Roosevelt Way. Plans with Harold W. Hall & Associates, architects, 402 Commerce Bldg., Everett. Stone veneer; plate glass in metal sash; glued laminated girders and beams on heavy pipe columns. DM 3-9. Previous report 1-15

■ **HOSPITAL EXTENSIONS—** **Seattle, Wash.**

Planholders announced for construction of an extension to the pediatric department of the Ballard General Hospital, on which bids will be opened 2 p.m., March 19, by the superintendent of the hospital, 5409 Barnes Ave., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle.

Planholders: Jentoft & Forbes, 927 W. 46th; C & R Builders, 1619 8th Ave. N.; Shuck Construction Co., 535 Pontius. All of Seattle. SP 3-9. Previous report 2-26

●■ **STORE—** **Seattle, Wash.**
(Estimated cost $40,000)

Bids will be opened from a selected list of bidders at a private bid opening at noon, March 20, in the office of the owners, Schuck Auto Supply Co., 7th & Bell, Seattle, for construction of a one-story auto supply store at 130 S.W. 152nd St., Seattle. Plans with V. W. Voorhees, architect, 2106 30th Ave. S., Seattle.

Planholders: Dickey & Clausen, 5200 15th N.W.; Baugh Construction Co., 423 3rd Ave. W.; O. E. Turnquist, 1305 E. Republican; G. Weldon Gwinn, 17810 Ballinger Way; Charles Dike, 4242 Shore Club Drive, Mercer Island; L. R. Owen, 515 S.W. 137th; Noble W. White, Pier 65. All of Seattle except as noted.

One-story; 60'x70'; reinforced concrete frame; concrete block cellar walls; pitched gravel roof; storage balcony in stockroom; paved parking area. PC 3-9

WHITWORTH SCHOOL— **Seattle, Wash.**

Preliminary plans are underway by Carlson, Eley & Grevstad, architects, 432 Eastlake, Seattle, for alterations and additions to Whitworth School, 5215 46th S., Seattle, for Seattle School District No. 1, S. E. Fleming, superintendent, 815 4th Ave. N., Seattle. PD 3-12

● **INTERIOR PAINTING—** **Seattle, Wash.**

Bids to be opened 2 p. m., March 20, by H. E. Pike, state supervisor of purchasing, Box 1164, Olympia, for painting the interior of Department of Highways Administration Bldg., 450 Spokane St., Seattle. Specifications in Olympia. DC 3-12

UNION HALL— **Seattle, Wash.**

Architect to be retained soon by Masters, Mates and Pilots Local 90, c/o Marine Engineers Beneficial Association, 1923½ 1st Ave., Seattle, Captain George J. Decker, agent, for construction of a two-story reinforced concrete union hall at the southeast corner of Elliott Ave. and Bell St., Seattle. Construction will be underway sometime in May. PC 3-12

BUILDING REMODELING— **Seattle, Wash.**

Bids rejected by Seattle Lighting Fixture Co., 222 2nd Ave., Seattle, for interior alterations to the company office. Contract will probably be negotiated before April 1. Project includes moving of partitions and new interior finishes.

PD 3-13. Previous report 11-24

▲ **HIGH POINT CHRISTIAN CHURCH—** **Seattle, Wash.**

Bids received by High Point Christian Church, at High Point Housing Center community hall, for construction of the first unit of the church building at the northeast corner of 35th Ave. S.W. and Holly streets in Seattle. Bids opened March 11. Plans by Silas E. Nelsen, architect, 2715 Center St., Tacoma. LOW BIDS: Wallace B. Questad, 2858 30th W., Seattle; Baugh Construction Co., 922 Poplar Place, Seattle. No figures available. All of Seattle.

PD 3-13. Previous report 2-27

GYMNASIUM— **Selah, Wash.**

Preliminary plans underway for construction of a gymnasium in connection with the new junior high school in Selah, for Selah Schol District No. 119, Elmo Steinke, superintendent, Selah. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima.

IG 3-8

SAFEWAY STORE— **Snohomish, Wash.**
(Estimated cost $100,00)

Building permit approved by City Council, City Hall, Snohomish, for construction of a new concrete block 80'x85' Safeway store at Pine and 2nd streets in Snohomish, for Safeway Store, Inc. SC 3-9

FIRE STATION— **Spokane, Wash.**
(Estimated cost $50,000)

Bids will be called soon by Spokane Fire Department, W. A. Dunham, fire chief, City Hall, Spokane, for construction of fire station No. 8 at Mission Ave. and Greene St. in Spokane. Plans by Stuart Blackwell & Associates, architects, N. 119 Post St., Spokane. $20 deposit when bids are called. One-story; basement; 3,700 sq. ft.; reinforced concrete footings and foundation; Haydite cavity walls; concrete slab flors; steel girders; steel roof; masonry partitions; concrete stairways; steel windows; painted exterior and interior finish; exposed masonry partitions; acoustical ceilings; folding doors, blackboards; insulation in cavity wall, rigid insulation in roof; hot air heating system, gas fuel. SP 3-8. Previous report 12-13

● **CORK TILE INSTALLATION—** **Spokane, Wash.**

Bids will be opened 3 p. m., March 25, by General Services Administration, Public Buildings Service, 126 Federal Office Bldg., 909 1st Ave., Seattle, for installation of cork tile in the courtroom, U. S. Post Office, Court House and Custom House, Spokane; Proj. No. CR-10-705. Specifications with above office. SP 3-9

● **MAINTENANCE OFFICE BUILDING—** **Spokane, Wash.**

Bids will be opened 9:30 a. m., March 21, in the City Hall, Spokane, for construction of a maintenance office building to be located on Grace Ave. between Hamilton and Nevada streets, for the City Water Division at Spokane. Plans with Funk, Murray & Johnson, architects, W. 524 4th Ave., Spokane. $25 deposit. Certified check or bid bond 5%. LL 3-13

■ **ANIMAL CLINIC—** **Spokane, Wash.**

Planholders announced for construction of a one-story, 44'x57', concrete animal clinic building on Francis Ave. at Wall St. in Spokane. Bids will be opened 3 p. m., March 19, by Dr. Philip J. Pfarr and Dr. Ralph G. Torney, owners, in the office of Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane.

Planholders: Smith & Roberts, Box 6086; Rural Home Improvement, N. 2207 Monroe; S. G. Morin & Son, 411 W. 2nd; P & B Co., Inc., E. 8903 Main; AAA Construction Co., 739 N. Helena; Eric Plath, Box 6235, Hillyard Station; Warner & Brown, 2904 N. Madelia; Vista Construction Co., S. 803 Park Road; W. F. Spilker & Sons, Route 5; Linebarger Construction Co., Box 7002; Jack Stewart, 5615 N. Audubon; Selkirk Construction Co., 722 W. 16th; John Dunham, W. 40205 Crown. All of Spokane. LL 3-13. Previous report 3-7

● **AUTOMATIC DOOR—** **Stanwood, Wa**

Bids to be opened 8 p. m., March 26, Lawrence Stovner, secretary, Stanwood P Department, Stanwood, for one industr automatic opened, wooden door for the f truck room. Specifications with secreta DC 3-

■ **FERN HILL SCHOOL—** **Tacoma, Wa**

Planholders announced for construct of a 12-classroom, 70'x197 addition, an 1 54' kitchen addition and various alteratio to the existing 16-classroom Fern Hill E mentary School at S. 86th St. and Park Av in Tacoma. Bids will be opened 3 p. m March 19, by Tacoma School District No. Carl G. Caddey, secretary, in the busine office, 5th floor, School Administrati Bldg., Tacoma. Plans with Nelson J. Morr son, architect, 227 Perkins Bldg., Tacom

Planholders — GENERAL: Mel Peders Box 2366, Parkland; John Woodard, 3842 Frace; Alden Mobert, Route 2, Box 729-7 Bona Fide Builders, Inc., 2430 E. 11th St Claude Purvis, 5936 S. Sheridan; Industri Engineers, 711 Middle Waterway; M & Construction Co., 1323 S. K St.; W. J. Leva Construction Co., Box 2355, Parkland; Kirkebo & Son, 1410 Mountain View; R. Foster Construction Co., 5324 S. 64th; Jo Anderson, 115 S. 9th; Korsmo Bros., 9 Lake Grove S.W.; John Purvis, 1525 B St.; Jack F. Graham, 1408 S. 141st S Parkland; Rex C. Schmalz, 10401 Broo Lane S.W.; Klapstein Builders, 1929 S. T coma Ave.; Concrete Construction Co., 2 Center St.; Jardeen Bros., 1240 S. Sprague Strom Construction Co., 2141 S. Fawce MECHANICAL: Weber Heating & Plumb ing, 110 N. Tacoma Ave.; H. K. Weste Inc., Box 362, South Tacoma; Gros Plumbing & Heating Co., 1115 S. Taco Ave.; Rainier Mechanical Contractors, In Box 2027, Parkland; Harold Jewell Plumbi & Heating, 6604 6th Ave.; Howard Chapma 2145 S. K St.; Wollett Plumbing & Heatin 3624 Steilacoom Blvd.; Bergh-Griggs, 7 Pacific Ave.; Pease & Son, Box 2037, Par land. ELECTRICAL: Eckroth Electric, 71 A St.; Washington Electric, 5235 S. Taco Way; Carl Madsen, Box 1545; Electric Co struction Co., 1650 Center St.; Electric A sociation, 2911 S. Chandler. All of Taco unless noted. SP 3-9. Previous report 2-

LIME PLANT— **Vancouver, Wa**
(Estimated cost $5,000,000)

Site has been selected on Columbia Riv waterfront at Vancouver for a limesto processing plant for the Edna Bay Pu Stone Co., Kent B. Diehl and Cullen McDougal, co-owners, Dallas, Tex. Proce engineering on the design of the plant h been completed and a starting date for co struction is expected to be set within s weeks. Plant will have a daily capaci of 300 tons and employ 150 persons. Lim stone will be shipped by self-unloadi ships to the plant from quarry at Edna Ba Alaska. WB 3-9. Previous report 7-

▲ **REHABILITATE BUILDING—** **Vancouver Was**

Bids received by U. S. Department of t Army, Oregon Military District, Purchasi and Contracting Office, Vancouver Barrack Vancouver, Wash., for rehabilitation Bldg. 987 at Vancouver Barracks; Inv. AV 57-13. LOW BIDS: Charles Camplan, 20 S.W. 58th Ave., Portland, $15,900 (base bid $18,496 (alternate); Clifford L. Parker, 34 Grant St. Vancouver $17,621; $20,188; Ru Todd, 9335 S.W. Fir Grove Lane, Portlan $17,864; $20,564. Bids received March 8. WB 3-

CATHOLIC HIGH SCHOOL— **Walla Walla, Was**
(Estimated cost $500,000)

Preliminary plans nearly complete b Culler, Gale, Martell & Norrie, architect Realty Bldg., Spokane, for construction a central Catholic high school to be locate on a 20-acre tract between Rose and Popla south of 13th St., in the southwest portio of Walla Walla. Owner will be the Catholi Diocese of Spokane, S. 317 Howard St., Spo kane. The Rev. Charles Skok, principal o St. Patrick's High School, is in charge o plans for the building. SC 3-

LINCOLN GRADE SCHOOL— **Wenatchee, Wash.**

Working drawings nearing completion for construction of the 16-classroom Lincoln Grade School to replace the existing Lincoln grade school for Wenatchee School District No. 146, Paul Furgeson, superintendent, 614 King St., Wenatchee. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima.

Combination SCR brick and wood steel frame exterior; glued laminated beams; wood deck; vinyl tile flooring; exposed SCR brick (corridors) and wood lath and plaster (classrooms) interior finish, paint and wood trim; metal etxerior doors; steel sash; oil heat. IG 3-6. Previous report 10-5

BANK— **Wilbur, Wash.**

Bids will be opened about March 15 in the office of the architect, for construction of a new one-story concrete bank building for the State Bank of Wilbur. Plans with Nicholas A. Kabush, architect, Hutton Bldg., Spokane. $20 deposit. Select list of bidders. Bid bond 5%. One-story; 40'x80'; Haydite block and reinforced concrete walls; acoustical interior; glass area with double pane design to be set in aluminum casings on east side; 8-car parking area; arcade on east side of building to have electrically heated tile sidewalks; radiant heating with supplementary hot air system for interior. MH 3-8. Previous report 2-15

SWIMMING POOL— **Wilbur, Wash.**

Plans under consideration by City Council, City Hall, Wilbur, for construction of a municipal swimming pool in Wilbur. It has not been definitely decided whether to build a new pool at a cost of $75,000 or repair the existing pool at a $20,000 cost. MH 3-8

LEGAL CENTER— **Yakima, Wash.**

(Estimated cost $175,000)

Cowan & Paddock, architects, Larson Bldg., Yakima, have been retained by a group of Yakima attorneys headed by J. S. Applegate of Halvorson & Applegate, chairman of building committee, Miller Bldg., Yakima, to prepare plans and specifications for construction of a legal center to accommodate about 25 attorneys. IG 3-2. Prebiuos report 12-8

CHURCH— **Yakima, Wash.**

(Estimated cost $200,000)

Preliminary plans approved and bids will be called in late April by First Christian Church, N. 3rd and E. B streets, Yakima, for construction of a two-level church on a five-acre tract at Ohio and Englewood avenues in Yakima. Plans by Anderson, Durham & Freed, architects, 1100 Denny Way, Seattle. IG 3-8. Previous report 2-13

DETENTION HOME— **Yakima, Wash.**

(Estimated cost $150,000)

A site has been selected at 18th Ave. and Jerome St. in Yakima, by Yakima County Commissioners, Courthouse, Yakima, for construction of a new detention home. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima. IG 3-8. Previous report 11-7

▲RESIDENCE— **Yakima, Wash.**

Bids received by Donald Keith, owner, 2605 Lincoln Ave., Yakima, for construction of a new residence in Stanley Park Addition to Yakima. Plans by Champ Sanford, designer, 602 S. 5th Ave., Yakima. Bids opened March 6. LOW BIDS: Tilman Nelson, 922 S. 24th Ave., Yakima, $36,693; Harold Sanford, 418 S. 23rd Ave., Yakima, $38,782; Pfief Construction Co., 1315 S. 21st Ave., Yakima, $39,948. IG 3-8. Previous report 3-2

IDAHO

SCHOOL RENOVATION, IMPROVEMENTS— **Arco, Idaho**

Bond issue for $100,000 approved in the February 14 election and bids will be opened about 8 p. m., May 1, by Arco School District, Irwin W. Spencer, superintendent, Arco, for renovation and improvements at schools in Arco, Howe and Clyde, Butte County, Idaho. Plans by C. A. Sundberg, architect, Box 556, Idaho Falls.

Plans include the following: ARCO—Arco Elementary School, $42,000, acoustical tile on walls and ceilings, asphalt tile in halls, rubber matting on stairs, modern heating unit including controls in each room, new steel window casings, two fire escapes, new desks and new wiring and light fixtures in two rooms; Moore Elementary School, $20,000, repair of heating unit, asphalt tile flooring, individual heat controls and new convectors in each room and new desks, new front entrance, bracing roof and insulation. HOWE—Construction of new school building consisting of two school rooms and a multipurpose room for hot lunches and meetings. CLYDE—Reshingling of the school roof. Projects at Howe and Clyde estimated at $38,000. SP 3-8. Previous report 2-1

ELEMENTARY SCHOOLS— **Bruneau, Grandview, Idaho**

Correction. Bond election will be held March 18, rather than today, March 8, as reported in PCD 2-22, for a $330,000 bond issue to finance construction and equipping of two elementary schools, one at Bruneau and one at Grandview. Plans underway by Charles W. Johnston, architect, 13 N. 8th St., Payette, on the two school buildings. SC 3-8. Previous report 2-22

CIVIC CENTER— **Caldwell, Idaho**

(Estimated cost $18,000)

A concentrated building fund drive will start soon to raise the $18,000 necessary for construction of the proposed Caldwell Civic Center building on land adjacent to Rose Garden in Caldwell. SC 3-8

CLUBHOUSE— **Grangeville, Idaho**

Plans announced by Grangeville Country Club, M. E. Johnston, president, Grangeville, for a clubhouse to be located at the golf course in Grangeville. Construction will start this spring and it is expected that much of the labor and materials will be contritbuted by members. SC 3-8



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▲SCHOOL— Lewiston, Idaho

Bids received in the office of the architect, for construction of an eight-room grade school on 13th Ave. between 20th and 21st streets in Lewiston, for Our Lady of Lourdes Catholic Church, Rev. Fr. Patrick Phelan, pastor, 2020 12th Ave., Lewiston. Plans by Andrew Bowles, architect, 104 S. 11th St., Boise. Bids opened March 6. LOW BIDS: Welsh Bros. Construction Co., Inc., 920 Broadway Ave., Boise, $220,000; Larry Wright, Rupert, $228,543; Gus Larkin, 1119 8th Ave., Lewiston, $249,940.

SP 3-9. Previous report 2-28

ALUMINUM MANUFACTURING PLANT— Moscow, Idaho

(Estimated cost $35,000,000)

Construction may start in 1959, if alumina recovery process tests are successful, for an aluminum manufacturing plant near Moscow in Latah County, Idaho, for Anaconda Co., C. E. Weed, president, New York City, N.Y. The plant will have a capacity of 50 tons alumina per day.

SC 3-13. Previous report 10-26

▲DENTAL CLINIC— Mountain Home AFB, Idaho

Bids received by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla, for construction of a dental clinic building at Mountain Home AFB, Elmore County, Idaho: ENG-45-164-57-23. Bids opened March 7. LOW BIDS: Max A. Boesiger, 185 E. 2nd North, Mountain Home, $154,874; C. W. Watkins & Son, Box 1786, Boise, $160,761; Babbitt Construction Co., 1620 Taggart St., Box 4038, Boise, $172,-151. There is the possibility of a late bid for this job. Government estimate, $190,692.

SP 3-8. Previous report 3-2

HIGH SCHOOL— Payette, Idaho

Bond election will be held March 20 by Payette School District 371-J, Jerome Brubaker, board president, Payette, for a $155,-000 bond issue to finance reconstruction of the Payette High School, 1215 Center Ave., Payette, which was damaged by fire in November. A bond issue for $324,800 was previously defeated in January. Plans call for repairing, reconstructing, remodeling and equipping the first two floors of the old building. SC 3-8. Previous report 1-30

SCHOOL PROJECTS— Sandpoint, Idaho

Bond issue for $911,983 defeated in the March 5 election held by Bonner County Class A School District No. 82, Administration Office, 402 Main St., Sandpoint, to finance improvements, including new buildings, in the district. Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane, are working with the school board on the projects. SC 3-12. Previous report 2-1

●CONVALESCENT HOSPITAL— Shoshone, Idaho

Bids will be opened 2 p.m., April 8, Lincoln County Commissioners, Courthouse, Shoshone, for construction of a new convalescent hospital at Shoshone, for the Idaho State Board of Health, Department of Hospital Facilities, Boise. Plans with C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls. $25 deposit. Bid bond 5%.

SC 3-13. Previous report 10-19

MONTANA

●CHURCH REMODELING, ADDITIONS— Billings, Mont.

(Estimated cost $70,000)

Bids will be opened 8 p.m., March 27, by First German Congregational Church, 4th Ave. S. and S. 36th St., Billings, for construction of a one-story addition to the church. Plans with Drake & Gustafson, architects, Empire Bldg., Billings. $25 deposit. Includes addition to nave and six-classrooms; brick veneer exterior; truss rafters; new heating plant. Bids to be accepted for general, electrical, plumbing and heating contracts.

EE 3-12. Previous report 2-22

●CHEMICAL BUILDING— Billings, Mont.

Bids will be opened 5 p.m., March 26, in the office of the city clerk, City Hall, Billings, for construction of a new two-story 60'x80' chemical building at the city water plant in Billings. Plans and specifications with Black & Veatch, consulting engineers, 1500 W. Meadow Lake Parkway, Box 8405, Kansas City, Mo. $15 deposit. Certified check, cashier's check or bid bond 5%.

Building will have deep basement, main operating floor where chemicals are to be added, and a second floor for storage of chemicals, and will be equipped to treat a capacity load of 80,000,000 gal. of water per day. Basement to be lower than river level, will house boilers and large flumes for moving water and will have a 24" thick reinforced concrete floor. Above-ground structure will have steel frame with outside shell of concrete block and brick. EE 3-12

●CHURCH, EDUCATION BUILDING— Fort Benton, Mont.

Bids will be opened 7 p.m., April 4, by Board of Trustees, First Methodist Church, Fort Benton, for construction of a new one-story church and a two-story education building at Fort Benton. Plans with Davidson & Kuhr, architects, 104 4th St., Great Falls. $35 deposit. Bid bond 5%.

Concrete footings and foundation; concrete floors; timber girders, beams, columns; built-up roofing on education building; wood stairways; cedar board and battens, face brick exterior wall finish; precast coping exterior trim; exposed masonry and plaster interior partitions; wood, asphalt tile and vinyl tile flooring; plaster acoustical ceilings; birch interior doors. LL 3-12

■NAVAID FACILITIES— Glasgow AFB, Mont.

Planholders announced for construction of Navaid facilities, involving three buildings and various utilities, at Glasgow AFB; ENG-45-164-57-25. Bids will be opened 2 p.m., March 19, by Corps of Engineers, Walla Walla office, Bldg. 602, City-County Airport, Walla Walla.

Planholders: A & W Construction Co., Box 228, Glasgow; Northwestern Engineering Co., Box 1392, Rapid City, S. Dak., and Box 786, Glasgow; Orville E. Madsen General Contractors, Inc., 492 Sexton Bldg., Minneapolis, Minn.; Morgen & Oswood Construction Co., Box 225, Glasgow; Mann Construction Co., Box 577, Redmond, Ore.; Wickes Engineering & Construction Co., 1441 2nd Ave., Des Moines, Iowa; Sound Construction & Engineering Co., 1300 Aloha, Seattle; The Timber Co., 2150 N. 1st, Hermiston; The Carroll Co., General Delivery, Geiger Field, Spokane.

SP 3-8. Previous report 2-20

COLLEGE FACILITIES—Great Falls, Mont.

Page & Werner, architects, Box 500, Great Falls, have been retained by The College of Great Falls, James J. Donovan, president, 1618 3rd Ave. N., Great Falls, to prepare plans and specifications for construction of administration, classroom and dormitory buildings on the new 70-acre campus site on 10th Ave. S. between 20th and 23rd streets in Great Falls. No date has been set for the start of construction but 1960 is planned as the completion date for the initial buildings. The initial building will provide space for 1,000 students. SC 3-1

★ELKS' BUILDING REMODELING, EXPANSION— Havre, Mont.

(Estimated cost $250,000)

Awards announced by BPOE Lodge No. 1201, Kenneth Hafdahl, Exalted Ruler, 328 2nd, Havre, for remodeling and expansion of the lodge. Plans by George H. and Frank B. Shanley, architects, Barber-Lydiard Bldg., Great Falls. No amounts given for awards. AWARDS—GENERAL: Chris Fuglevand Co., Inc., 519 4th St., Havre. MECHANICAL: J. A. McCauley Plumbing & Heating, 424 2nd St., Havre. ELECTRICAL: Havre Electric, 317 3rd, Havre. SC 3-8

●NEWSPAPER PLANT— Helena, Mont.

(Estimated cost $275,000)

Correction. Bids will be opened 10 a.m., March 29 rather than March 22 as reported in PCD 2-27 by Independent Record, 32 Main St., Helena, on revised plans for reconstruction of a newspaper plant at Helena. Plans with Eldred F. Moyle, architect, Silver Bow Bldg. (Box 1965), Butte. deposit. SP 3-1. Previous report 2

★TELEPHONE BUILDING REMODELING— Helena, Mo

Award to Lowe Construction Co., 2225 Ave. N., Billings, $12,000, by Mountain States Telephone & Telegraph Co., 441 N. Fi Ave., Helena, for remodeling work at telephone building. EE 3-

SCHOOL— Lolo, Mon

Members of School District No. 7, Lo have voted in favor of purchasing land at a near the present school grounds in Lolo order to be eligible for $20,000 federal aid construction of a new school building. district already has bonded itself for $25,0 to which the federal funds would be adde for the construction. SC 3-

★TILE INSTALLATION— Miles AF Station Mon

Award to Pierce's Flooring, 3007 Montan Ave., Billings, $5,335, by U.S. Air Force Procurement Office, 407th Air Base Group Bldg. T-1342 Malmstrom AFB, for installation of tile for mess hall floors at Miles City AF Station; Proj. L-57-57-MC. Bids opened March 1. SP 3-12. Previous report 2-

▲SCHOOL ADDITION— Missoula, Mon

Bids received by St. Anthony's Church 340 Edith, Missoula, for construction of addition to St. Anthony School and Convent in Missoula. Plans by Fox & Ballas, architects, Wilma Bldg., Missoula. Bids opened March 8. LOW BIDS—GENERAL: Gordon Construction Co., Box 319, $75,848 (base bid) $660 (add. alt.); Pew Construction Co., 3 Walnut, $77,235, $666; Hightower & Lubrecht Construction Co., 736 S. 1st West, $77,49 $600. MECHANICAL: Missoula Hardware & Plumbing, 228 N. Higgins Ave., $20,3 (base bid), no bid (add. alt.), $505 (ded. alt.); C. W. Schmid Plumbing & Heating, 231 W. Front, $21,035, no bid, $353; Missoula Wate & Gas Co., Target Range, $21,055, $597, no bid. ELECTRICAL: Walford Electric, 2 S. Higgins Ave., $9,540; Western Montana Electric, 205 W. Front St., $9,620; Electric Shop, 225 W. Broadway, $9,800. All of Missoula. SP 3-13. Previous report 2-

●BANK— Roundup, Mon

Bids will be opened 8 p.m., March 26, by Miners & Merchants Bank, 201 Main St., Round-up, for construction of a one-story addition to the bank. Plans with Loners & Stroebe, architects, 418 N. 25th St., Billings. $25 deposit.

No basement included in the addition; brick and hollow tile exterior; steel joists, roof; reinforced concrete floor; contract also includes alterations to the interior of existing 25'x90' main floor.

EE 3-12. Previouc report 1-

CREDIT UNION OFFICE BUILDING— Whitefish, Mont

(Estimated cost $40,000)

Plans announced by Whitefish Credit Union Association, 416 2nd St., Whitefish, for construction of an office building adjacent to the present building at the above address. The 25'x108' building will be masonry and will have a full basement. SC 3-

POST OFFICE— Whitefish, Mont

Plans under consideration for construction of a new post office building in Whitefish to replace the existing post office located in the basement of the Masonic Temple in the city. The new building would be constructed by private interests under the supervision of the Post Office Department. The structure would be concrete and pumice block with 50'x62' floor space and a loading apron of about 10'x24'. SC 3-13

●■ELEMENTARY SCHOOL—Wyola, Mont.

Bid opening extended from March 7 to 8 p.m., March 21, by Big Horn County School District No. 29, Wyola, for construction of an elementary school building at

Wyola. Plans with Drake & Gustafson, architects, Empire Bldg., Billings.

Planholders—GENERAL: N. A. Nelson Construction Co., Box 644, Sheridan; Julian Construction Co., Box 889, Newcastle; Pogue Construction Co., Box 155, Billings; Husman Bros., Box 432, Sheridan; Frates Construction Co., 424 Rimrock, Billings; William Ross, Buffalo, Wyo.; Willis Construction Co., Box 662, Billings; Dougherty & Novotny, Box 1841, Casper. MECHANICAL: Columbus Plumbing & Heating, 756 Broadway, Sheridan; Wagners Plumbing & Heating, 1043 Miles Ave., Billings; Biegel Plumbing & Heating, 1119 Miles Ave., Billings; Swainson Plumbing & Heating, 1231 Central Ave., Billings; Midland Plumbing & Heating, Box 1911, Billings. ELECTRICAL: Yellowstone Electric, 410 N. 33rd, Billings; Sperline Electric, Box 477, Hardin; Billings Electric Supply, 214 N. 30th St., Billings; Sterling Electric, 1231 Central Ave., Billings.

EE 3-9. Previous report 3-1

●■ QUARRY TILE INSTALLATION— Yaak, Mont.

Bids will be opened 2 p. m., April 5, by U. S. Air Force, Procurement Office, Geiger Field, for installation of quarry tile flooring in Bldg. No. 104 at the 680 AC&W Squadron in the vicinity of Yaak, Mont.; IFB 45-614-57-85. Specifications with above office.

Planholders: Coleman Floor Co., 935 N. Michigan Ave., Chicago, Ill.; Furniture Exchange Co., 301 Cedar, Sandpoint, Idaho; Patrick Tile Co., S. 125 Stevens, Spokane; Bonner Building Co., 201 Church, Sandpoint; H. R. Parsons Tile Co., W. 1023 Sprague, Spokane; Fashion Floor Covering, 528 E. 9th, Spokane; Carpenter Tile Co., 51 3rd Ave., Kelispell, Mont. LL 3-12

WYOMING

STADIUM, ATHLETIC FIELD— Cheyenne, Wyo.

Approval will be asked in the April 2 election to be held by School District No. 1, Samuel Clark, superintendent, Cheyenne, for the establishment of a $175,000 building fund to finance construction of a high school athletic field and stadium to be located about ½ mi. east of the Veterans' Hospital and several blocks south of Pershing Blvd. in Cheyenne. Project will include 2,500 permanent seats in main steel stands and an additional 1,500 seats in permanent steel bleachers. Both units would be designed for expansion as necessary. SC 3-8

● MUSEUM COMPLETION— Douglas, Wyo.

Bids will be opened 2 p. m., March 29, by Wyoming State Department of Agriculture, William L. Chapman, commissioner, c/o architect, Laramie, for completion of the Pioneer Museum at the State Fair Grounds in Douglas. Plans with Hitchcock & Hitchcock, architects, 107 W. 5th Ave., Laramie. Deposit. Bid bond 5%. LY 3-13

GYMNASIUM— Glendo, Wyo.

Bond issue for $85,000 defeated in the early March election held by School District No. 8, Platte County, Glendo, to finance construction of a gymnasium building for the district. Plans by Goodrich & Wilking, architects, 226 E. 2nd St., Casper.

LY 3-8. Previous report 1-19

ELEMENTARY SCHOOL ADDITION— Lander, Wyo.

Bond issue for $278,000 was approved in the February election held by School District No. 14, Lander, to finance construction of an addition, including eight classrooms, two kindergarten classrooms and a lunchroom and kitchen, to the elementary school at Lander. Plans by Tresler & McCall, architects, 1276 Sheridan, Cody.

SC 3-8. Previous report 2-22

★ SLADE SCHOOL ADDITION— Laramie, Wyo.

Award announced by School District No. 1, Jack Corbett, superintendent, 404 S. 8th St., Laramie, for construction of a three-level six-room addition to Slade School, 12th and Sully streets, Laramie. Plans by Hitchcock & Hitchcock, architects, 107 S. 5th Ave., Laramie. Bids opened March 4. AWARD: Cebert Mitchell, 524 Custer, Laramie, $93,932. 2ND LOW: Garton & Garton, 1939 E. 18th, Cheyenne, $96,070. 3RD LOW: Spiegelberg Lumber & Building Co., 259 W. Fremont, Laramie, $101,200.

SP 3-9. Previous report 2-9

● SCHOOL ADDITION— Moorcroft, Wyo.

Bids will be opened 4 p. m., March 20, by School District No. 16, Crook County, Moorcroft School Building, Moorcroft, for construction of a three-classroom addition to the school. Plans with Harrison L. Cook & Associates, architects, 119 N. Main St., Sheridan.

Planholders—GENERAL: Julien Construction Co., Box 889, Newcastle; Charles Johnson, 1450 Val Vista Ave., Sheridan. MECHANICAL: Axel Ostlund, Gillette; Sheridan Ready Mix Concrete Co., 1001 Dunnock, Sheridan; Frickey Sheet Metal Works, Inc., 545 N. Main, Sheridan; Jacoby Plumbing & Heating Co., Box 687, Gillette; Turner & Bell, 934 Burton St., Sheridan; Prill Bros., 40 E. 5th St., Sheridan. ELECTRICAL: Mike's Electric Service, 1726 N. Main St., Sheridan. LY 3-9

★ CHURCH— Saratoga, Wyo.

Award to Lane-Owens Construction Co., Box 203, Casper, $37,416, by St. Ann's Catholic Church, Father John Meyer, pastor, Saratoga, for construction of a new church building at Saratoga. Plans by Kellogg & Kellogg, architects, 1909 Carey Ave., Cheyenne. Bids opened February 21.

SP 3-13. Previous report 1-30

ADMINISTRATION BUILDING ADDITION— Sheridan, Wyo.

(Estimated cost $43,660)

Plans being prepared by Harrison L. Cook & Associates, 119 N. Main St., Sheridan, architects, for construction of an addition to the administration buiding at Sheridan County airport. Sheridan county commissioners, Courthouse, Sheridan, announced the need for larger quarters for the U. S. weather bureau and Civi Aeronautics Administration. PC 3-5

TELEPHONE EXPANSION— Thermopolis, Wyo.

The Mountain States Telephone & Telegraph Co., 1919 Capital Ave., Cheyenne, has purchased 10 lots in Thermopolis as part of its plans to expand its service and convert telephone operations in Thermopolis to a dial system. SC 3-7

HOSPITAL— Thermopolis Wyo.

(Estimated cost $1,540,000)

Plans will be complete about May 15 for construction of a one-story hospital and rehabilitation center in Thermopolis, for Hot Springs County Commissioners and Goettsche Foundation, Courthouse, Thermopolis. Plans by Fisher, Fisher & Davis, architects, 827 Denver National Bldg., Denver, Colo. Bids will be opened at the Governor's Office in Cheyenne.

One-story; basement; caisson footings and foundation; solid masonry walls; concrete slab floors; steel girders, beams, columns; flat steel roof; concrete stairways; aluminum windows; metal lath partitions; terrazzo and vinyl tile flooring; plaster, acoustical ceilings; metal cabinets; special equipment includes folding doors, glass panels, corrugated plastic panels, refrigeration, sprinkling systems, blackboards and fire doors; steam heating system, gas fuel; ventilating and air conditioning systems.

SP 3-13. Previous report 1-31

WAREHOUSE— Torrington, Wyo.

(Estimated cost $600,000)

Construction being considered by Holly Sugar Co., Torrington, for a bulk sugar storage warehouse with silo type storage units at Torrington. LY 3-7

TELEPHONE EXCHANGE BUILDING— Worland, Wyo.

Preliminary plans underway for construction of a telephone exchange building at Worland, for Mountain States Telephone & Telegraph Co., 931 14th St., Denver, Colo. Plans by Paul W. Radar, architect, 6915 Lakewood Place, Lakewood, Colo. One-story; 15,300 sq. ft.; basement; reinforced concrete and block structure. LY 3-1

UTAH

CHAPEL REMODELING, ADDITION— Butler, Utah

(Estimated cost $150,000 addition, $30,000 remodeling)

Plans will be complete about April 1 for remodeling and constructing an addition to the LDS 2nd Ward Chapel at Butler for the LDS Church, 47 E.S. Temple, Salt Lake City. Plans by Richard H. Johnson, architect, 209 Zions Savings Bank Bldg., Salt Lake City.

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GH 3-12. Previous report 1-23

SCHOOL— Garrison, Utah
(Estimated cost $30,000)
Bids will be called soon by Millard County School District, Fillmore, for construction of a two-classroom school in Garrison. Plans completed by Woods & Woods, architects, 19 W.S. Temple, Salt Lake City. One-story; no basement; 1,923 sq. ft.; concrete footings and foundation; solid masonry walls; brick veneer exterior; concrete slab floors; flat roof; masonry partitions; steel windows; exposed masonry partitions; asphalt tile flooring; acoustical ceilings; rigid insulation in roof; unit ventilating system, gas fuel. GH 3-7. Previous report 11-7

●■BOILER REPLACEMENT— Hill AFB, Utah
Bids will be opened 1 p.m., May 17, by U.S. Air Force, Commander, Ogden Air Materiel Area, Directorate of Procurement & Production, Attn: OOPPCS, Hill AFB, for replacing the existing boiler with a new boiler in Bldg. S-210 at the base; IFB 42-600-57-237. Specifications with above office. Bid bond 20%.
Planholders: Lindquist Boiler Co., 1374 S. State St.; Acme Boiler Repair & Heating, 1156 S. State St.; United Iron Works, 345 W. 7th South; B. W. Thorpe, Route 3, Box 58, Ogden; A. H. Palmer & Sons, 186 N. Main St., Logan; Paul W. Larsen, 361 W. 4th South; Huppi Heating & Plumbing, 782 E. 9th North, Logan. Of Salt Lake City unless noted. GH 3-8

●COMPASS REPAIR AND RUN-IN ROOM— Hill AFB, Utah
Bids will be opened 1 p.m., May 16, by U.S. Air Force, Commander, Ogden Air Materiel Area, Directorate of Procurement & Production, Attn: OOPPCS, Hill AFB, for construction of a gyro-compass repair and run-in room in Bldg. 214 at the base; IFB 42-600-57-258. Specifications with above office. Bid bond 20%. GH 3-8

●ANNEX MODIFICATION—Hill AFB, Utah
Bids will be opened 1 p.m., May 15, by U.S. Air Force, Commander, Ogden Air Materiel Area, Directorate of Procurement & Production, Attn: OOPPCS, Hill AFB, for modification of annex 2nd floor at the base; IFB 42-600-57-248. Specifications with above office. Bid bond 20%. GH 3-8

SHOP, LUNCHROOM ADDITION— Murray, Utah
Working drawings underway for construction of a new shop and lunchroom addition to the Murray High School, for Murray City Board of Education, 5025 S. State St., Salt Lake City. Plans by Cannon & Mullen, architects, 47 W.S. Temple, Salt Lake City.
GH 3-9. Previous report 2-13

OFFICE AND WAREHOUSE BUILDING— Ogden, Utah
A site has been purchased between 24th and 25th streets on Wall Ave. in Ogden, by The Standard Plumbing Supply Co., 2378 Wall Ave., Ogden, for location of an office and warehouse building. SC 3-7

★FLOORING, CABINET COVERING— Ogden, Utah
Award to Johnson-Perrin Floor Covering Co., Inc., 3701 Washington Blvd., Ogden, $1,685, by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, for installation of floor covering and covering of cabinets and counters at the Utah State Tuberculosis Hospital in Ogden. Bids opened February 19. GH 3-8. Previous report 2-7

★FOREST SERVICE BUILDING— Ogden, Utah
Award to Dean R. Mayberry, 3574 Eccles Ave., Ogden, $20,974, by General Services Administration, Public Buildings Service, Bldg. 41, Denver, Colo., for alterations to the Forest Service Bldg. in Ogden; Proj. 517.
SP 3-13. Previous report 3-6

★BANK— Riverton, Utah
Contract negotiated with Johnson Construction Co., 1725 Chicago St., Salt Lake City, no amount given, by Walker Bank & Trust Co., 2nd South and Main St., Salt Lake City, for construction of a new branch bank at 12600 S. and 1720 W. in Riverton. Plans by Young & Hansen, architects, 66 Canyon Road, Salt Lake City.
GH 3-8. Previous report 3-1

HOSPITAL ADDITION—Salt Lake City, Utah
Preliminary plans underway by George Cannon Young, architect, 610 Utah Savings & Trust Bldg., Salt Lake City, for construction of a fourth floor addition to the LDS Primary Children's Hospital at 320 12th Ave. in Salt Lake City, for LDS Church Building Committee, 125 N. Main St., Salt Lake City. GH 3-7. Previous report 8-15

●■LUNCH ROOM BUILDING— Salt Lake City, Utah
Bids will be opened 2 p.m., March 22, by Utah Oil Refining Co., K. H. Searle, purchasing agent, Utah Oil Bldg., Salt Lake City, for construction of a new lunch room building at the refinery in Salt Lake City. Plans with above office.
Planholders: Alfred Brown, 628 Dooly Bldg.; Ralph Child, 1400 E. 4th South, Springville; Garff, Ryberg & Garff, Box 1204; Hilton & Carr, Box 572, Ogden; Jacobsen Construction Co., 421 W. 13th South; Olson Construction Co., 1549 S. 2nd West. All of Salt Lake City unless noted. GH 3-8

JUNIOR HIGH SCHOOL— Salt Lake City, Utah
Barker Engineering Co., 270 S. 12th East, Salt Lake City, has been retained by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, to prepare plans and specifications for a new junior high school building to be located at about 3900 South and 9th East in Salt Lake City. GH 3-9

▲WILLIAM PENN SCHOOL ADDITION— Salt Lake City, Utah
Bids received by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for construction of an eight-room addition to the William Penn Elementary School, 1670 Siggard Drive, Salt Lake City. Plans by Robert L. Springmeyer, architect, 617 Zions Savings Bank Bldg., Salt Lake City. Bids opened March 5. LOW BIDS: W. J. Dean & Sons Construction Co., 1138 Wilson Ave., $145,789; Layton Construction Co., 1991 Siggard Drive, $149,341; Culp Construction Co., 6600 S. 2000 East, $150,978. All of Salt Lake City.
GH 3-9. Previous report 3-2

GOVERNOR'S RESIDENCE— Salt Lake City, Utah
Cannon, Smith & Gustavson, architects, 1555 E. 3900 South, Salt Lake City, have been retained by Utah State Building Board, Jerry G. King, superintendent of construction, 419 State Capitol Bldg., Salt Lake City, to prepare plans and specifications for a new governor's residence to be located south of the south rim of Emigration Canyon, near the "This Is The Place" monument and the Hogle Zoological Gardens in Salt Lake City.
GH 3-12. Previous report 3-7

NORTHWEST JUNIOR HIGH SCHOOL— Salt Lake City, Utah
(Estimated cost $1,600,000)
Plans will be complete about April 1 for construction of the Northwest Junior High School at 1250 N. 13th West in Salt Lake City, for Salt Lake City Board of Education, Dr. M. Lynn Bennion, superintendent, 440 E. 1st South, Salt Lake City. Plans by William F. Thomas, architect, 19 W.S. Temple, Salt Lake City. GH 3-12. Previous report 5-11

★ROOSEVELT JUNIOR HIGH SCHOOL ADDITION— Salt Lake City, Utah
Awards announced by Salt Lake City Board of Education, Dr. M. Lynn Bennion, superintendent, 440 W. 1st South, Salt Lake City, for remodeling and construction of addition to the Roosevelt Junior High Schol at 843 Lincoln St. in Salt Lake City. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City. AWARDS—GENERAL: Paulsen Construction Co., 1425 Jefferson St., Salt Lake City, $509,000. MECHANICAL: Walsh Plumbing, 65 W. Fayette Ave., Salt Lake City, $139,[illegible]. ELECTRICAL: Blaine Grey Electric Co., 33 Exchange Place, Salt Lake City, $56,[illegible].
GH 3-13. Previous report [illegible]

CHAPEL— Taylorsville, Utah
(Estimated cost $250,000)
Plans will be complete about April 1 for construction of a new 2nd Ward LDS chapel at Taylorsville, for the LDS Church, 47 E. Temple, Salt Lake City. Plans by Richard H. Johnson, architect, 209 Zions Savings Bank Bldg., Salt Lake City.
One-story; boiler room in basement; 20,[illegible] sq. ft.; concrete footings and foundations; solid masonry walls; concrete floors; concrete girders, beams, columns; timber deck roof; block partitions; steel sash; brick exterior; wood veneer and block interoir wall finish; vinyl tile flooring; acoustical exposed wood deck ceiling; folding doors, blackboards; window wall unit and roof deck insulation; hot water heating system, gas fuel.
GH 3-12. Previous report [illegible]

★JUNIOR HIGH SCHOOL— West Jordan, Utah
Awards announced by Jordan Board of Education, Dr. J. O. Jones, president, [illegible] S. State St., Sandy, for construction of [illegible] one- and two-story West Jordan High School on 8600 S., west of West Jordan. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City. AWARDS—GENERAL: Bowers Building Construction Co., 1033 S. State, Salt Lake City, $1,574,975. MECHANICAL: Standard Plumbing & Heating Co., 186 E. 4050 South, Murray, $259,667. ELECTRICAL: Capitol Electric Co., 1218 S. 2nd West, Salt Lake City, $109,233.
GH 3-9. Previous report [illegible]

ALASKA

BLM COMMITTEE BUILDINGS— Alaska
The Bureau of Land Management has requested an expenditure of $250,000 for buildings throughout Alaska to replace present committee buildings which are inefficient with excessive heating and maintenance costs. The proposed construction includes combination office-quarters, garbage-warehouse, gas-oil house, fire-crew barracks and necessary water systems at Palmer, $53,000; Glenallen, $34,000; Fort Yukon, $40,000; Northway, $21,000; Buffalo Center, $20,000; Paxson, $25,000 Chicken, $14,000; Eagle, $3,000; Central, $6,000; Tok Junction, $8,000 and $15,000 for the station office at Fairbanks. SC 3-[illegible]

●WAREHOUSE PAINTING— Anchorage, Alaska
Bids will be opened 2 p.m., April 4, in the office of the chief engineer, The Alaska Railroad, Anchorage, for painting the exterior of nine warehouses located in the Anchorage Yard. Plans and specifications with above office and with A. R. Session, special representative of the general manager, The Alaska Railroad, 226 Federal Office Bldg., 909 1st Ave., Seattle. $10 deposit. SC 3-[illegible]

●RESIDENCE— Anchorage, Alaska
Bids to be opened 2 p.m., A.S.T. March 26 by Edwin B. Crittenden & Associates, architects, 1565 F St., Anchorage (Box 358) for construction of a residence for the Holy Family Parish. Plans with architect. Two-story; 44'x60'; basement; wood frame, brick veneer; concrete block and asbestos cement panels. DC 3-[illegible]

● PRE-CUT METAL MATERIALS—
Bethel, Alaska

Bids to be opened 4:30 p.m., March 20 by Don M. Dafoe, commissioner of education, 318 Alaska Office Bldg., Juneau (Box 1841) for furnishing metal materials pre-cut for a two-classroom building and garage for Bethel Territorial School, Bethel. Specifications with Juneau office. DC 3-9

▲ BUILDINGS, UTILITIES—Driftwood Bay, Nikolski AF Stations, Alaska

Bids received by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for construction of buildings and structures and outside utilities to serve Driftwood Bay and Nikolski Air Force Stations in Alaska; ENG-95-507-57-60. Bids opened March 8. LOW BID: Baker & Ford, Box 24, Bellingham, $4,852,942 (Sched. E—Driftwood), $4,643,647 (Sched. F—Nikolski). The firm made the stipulation that if it was low bidder on both schedules, it would reserve the right to choose which schedule it would accept. OTHER BIDDERS: Patti-MacDonald Construction Co., Pouch 6, Anchorage, and Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, $4,915,052, $4,828,096 (joint venture); Manson-Osberg, 1132 N. 128th, Seattle, $5,197,070, no bid. Government estimate, $4,271,835, $4,557,569.
SP 3-9. Previous report 2-16

● NIKE SITES— Eielson AFB, Alaska
(Estimated cost $10,000,000)

Bid opening extended from March 15 to 2 p.m., March 20, by Corps of Engineers, Alaska district, in the Seattle office, 4735 E. Marginal Way, Seattle, for construction of four Nike sites in the vicinity of Eielson AFB, involving erection of five buildings and installation of utilities at each site; ENG-95-507-57-29. Specifications with above office. SP 3-9. Previous report 2-16

■ NIKE SITE WORK—
Elmendorf AFB, Alaska

Additional planholders announced for water service development, access roads, outside utilities and construction of buildings at three Nike sites in the vicinity of Elmendorf AFB, including Site Bay (Sched. A.) Site Summit (Sched. B) and Nike Point (Sched. C); ENG-95-507-57-30. Bids will be opened 2 p.m., March 26, by Corps of Engineers, Alaska district, in the Seattle branch office, 4735 E. Marginal Way, Seattle.

Planholders: J. B. Warrick Co., 400 2nd Ave. W., Seattle; Patti-MacDonald Construction Co., Olympic Hotel, Seattle; Peter Kiewit Sons' Co., 1300 Aloha, Seattle; Don H. Clark Construction, 2511 E. 17th St., Anchorage; Moss Construction, Box 1356, Anchorage; Stock & Grove, Inc., Box 2051, Anchorage; Dondis-Johnson Construction Co. Box 1154, Anchorage; Morrison-Knudsen Co., Inc., Box 320, Anchorage; Pacific Alaska Contractors, Box 676, Anchorage; M-B Conracting, Box, 2059, Anchorage.
SP 3-13. Previous report 3-5

★ ILAS FACILITIES, NAVAID BUILDING—
Elmendorf AFB, Point Mackenzie, Alaska

Award to American Service, Inc., Box 877, Spenard, $131,750, by Corps of Engineers, Alaska district offive, D-E Bldg., Anchorage, for construction of ILAS facilities at Elmendorf AFB, consisting of construction of equipment hard stands, counterpoise, localizer antenna foundation and other minor work, and for construction of a Navaid building, including helicopter pad and an access road, at Point Mackenzie, across Knik Arm from Elmendorf AFB; ENG-9'-'07-57-64. SP 3-13. Previous report 3-2

HIGH SCHOOL ADDITION—
Fairbanks, Alaska
(Estimated cost $375,000)

Bids wil be called about April by Alaska Public Works, Box 1181, Juneau, for construction of a masonry block and concrete nine-classroom and multipurpose room addition to the Fairbanks High School; Proj. Aaa 50-A-331. Plans by Phillips Engineering Service, 833 8th, Fairbanks. Project includes remodeling the existing school.
JU 3-12. Previous report 1-30

SCHOOL ADDITION, HIGH SCHOOL—
Kenai, Homer, Alaska

Bids will be called about March 20 by Alaska Public Works, Box 1181, Juneau, for construction of a ten-classroom and multipurpose room addition to the school in Kenai (Proj. Aaa 50-A-195) and a new high school at Homer (Proj. Aaa 50-A-234). Plans by Manley & Mayer, architects, 210 Loussac Sogn Bldg., Anchorage. Reports on these schools have previously been written separately under School Addition in Kenai and High School in Homer.
JU 3-12. Previous report 1-30. (Kenai), 3-1 (Homer)

FISHERY RESEARCH LABORATORY—
Juneau Alaska

The Fish and Wildlife Service is seeking an appropriation of $400,000 from the government for construction of a fishery research laboratory at Juneau. The 13,000 sq. ft. building would be of reinforced concrete. SC 3-13

New construction projects throughout the six Northwest states and Alaska are published in these columns.

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

★ LIGHT STRUCTURE— Astoria, Ore.

Award to General Construction Co., 4850 N.W. Front, Portland, $2,895, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of a nine-pile light structure for Flavel Range Front Light No. 28 on Columbia River, near Astoria; Bid No. FS-1535. PD 3-12. Previous report 3-5

STREET LIGHTS— Boardman, Ore.

Survey underway by members of City Council, City Hall, Boardman, for cost estimates on proposed installation of street lights in the city. Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis, are making an inventory of the city utilities in connection with the moving of the city when the John Day Dam is constructed. SC 3-8

● SUMP PUMPS— Bonneville, Ore.

Bids to be opened 11 a.m., March 20, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for 10 stop plate sump pumps with static discharge head of 40 gal. per minute at 40'; fob Bonneville; CIVENG-35-026-57-179. WB 3-12

● SAND FILTER, CHLORINE TANK MODIFICATION—Burns Installation, Ore.

Bids will be opened 2 p.m., March 25, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for modification to sand filter and chlorine detention tank at the cantonment and operations areas, Burns Installation, Ore.; ENG-45-108-57-111. Specifications with above office. Bid bond 20%. Project includes 650 c.y. excavation and 1,400 c.y. compacted backfill. SP 3-8

★ REDWOOD LUMBER— Estacada, Ore.

Award to Midway Lumber Supply, 7520 S.W. Macadam Ave., Portland, $1,100, by U. S. Fish & Wildlife Service 1001 N.E. Lloyd Blvd., Portland, for redwood lumber, fob Estacada; Inv. FW1-3970. Bids opened February 26. WB 3-13. Previous report 2-15

WATER SYSTEM— Forest Grove, Ore.

Bids will be called soon by City Council, City Hall, Forest Grove, for water system improvements, involving 10,000' of 16" steel water line to connect the Gales Creek pumping station with the Forest Grove treatment plant, Forest Grove. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Later in March, bids will be called for a sewage pumping station with the Forest Grove water treatment plant. Pipe has been ordered.
SC 3-8. Previous report 10-30

SEWAGE CLARIFIER— Lebanon, Ore.

Plans complete and awaiting federal approval for construction of a 50' diameter sewage treatment clarifier for the city of Lebanon. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. SC 3-7. Previous report 1-2

● BANK PROTECTION—
Long Tom River, Ore.

Bids will be opened 2 p.m., March 27, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair and construction of bank protection works at various locations along both banks of the Long Tom River, downstream from Fern Ridge Reservoir and Lane and Benton counties, Ore.; CIVENG-35-026-57-180. Specifications with above office. Bid bond 20%.

Quantities: 8,640 c.y. excavation; 42,940 c.y. embankment from borrow; 26,770 c.y. stone blanket; 1,580 c.y. dumped stone revetment; 3,770 c.y. derrick stone; 14' reinforced concrete pipe. SP 3-12

WATER MAIN— Milwaukie, Ore.

Bond issue for $137,600 approved by Wichita Water District, Dave Brown, clerk, 11707 S.E. Wichita Ave., Milwaukie, for replacement of 8" main with 12" main and for improvements to distribution system. District is located between Milwaukie and southeast Portland. WB 3-9

■ WATER WELL— Ordnance, Ore.

Planholders announced for drilling and developing a water well to a depth of about 900' at Umatilla Ordnance Depot in Ordnance; ENG-45-164-57-26. Bids will be opened 2 p.m., March 21, by Corps of Engineers, Walla Walla office, Bldg. 603, City-County Airport, Walla Walla.

Planholders: W. R. Ille & Co., Box 942, Hermiston; Troy Griffin, 4001 S.W. Jerald Court, Portland; R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland; A. A. Durand & Son, Box 437, Walla Walla; Ault Irrigation Equipment, 1020 W. Pine, Walla Walla; D. K. Smith, 1013 N. Clinton, Walla Walla; Storey Drilling, Route 1, Prosser, Wash.; Western Drilling & Equipment, 1545 Bay St., Tacoma.
SP 3-8. Previous report 2-28

▲ STREET IMPROVEMENTS—Portland, Ore.

Bids received by Board of Multnomah County Commissioners, John W. West, purchasing agent, room 504, County Courthouse, Portland, for two street improvement projects. LOW BIDS—N.E. OREGON ST.: Multnomah Road & Concrete Co., 1130 S.E. 122nd Ave., $9,217; Ray Hutton, 8407 S.E. 82nd Ave., $9,299; Logan, Taylor & Co., 7800 N.E. Killingsworth St., and H. M. Peterson, 13548 N.E. Glisan St., each bid $9,241. S.E. MADISON ST.: Oregon Asphaltic Paving Co., 0441

S.W. Porter St., $4,211; Multnomah Road & Concrete, $4,226; Logan, Taylor & Co., $4,337. Of Portland. Bids opened March 5.
WB 3-8. Previous report 2-21

▲AUTOMOTIVE STREET FLUSHERS— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for two automotive street flushers. BIDDERS: Wentworth & Irwin, 1005 W. Burnside St., Portland, $23,257; Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland, $26,938. Bids opened March 1. WB 3-8. Previous report 2-21

▲GATE VALVE OPERATORS— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for five electric gate valve operators, submersible type. ONLY BID: Ardies Machinery & Sales, 425 S.E. 9th Ave., Portland, $10,804; (plus A) $3,245; (plus B) $565. Bids opened March 5.
WB 3-8. Previous report 2-20

▲ALLEY IMPROVEMENT—Portland, Ore.

Bids received by city auditor, City Hall, Portland, for improving alley in Block 1, Ina Park. LOW BIDS: Richard M. Palmer, 6031 S.E. Brooklyn St., $1,884; Funston Construction Co., 3726 S.E. Hawthorne Blvd., $2,033; Perkins Bros., 10324 N.E. Halsey St., $2,061. Of Portland. Bids opened March 6.
WB 3-8. Preivous report 3-2

●TRANSFORMER COOLING FANS— Portland, Ore.

Bids will be opened 3 p.m., March 22, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, 38 transformer cooling fans as follows: 8 fob Pasco, Wash.; 8 fob Wenatchee, Wash.; 14 fob Eavan Spur, Vancouver, Wash.; and 8 fob Goshen, Ore.; Inv. No. 8310. Specifications with above office. SP 3-8

★PORTABLE PIPE SAW— Portland, Ore.

Award to Waterworks Supplies Co., 4455 S.E. 24th Ave., Portland, $3,900, by city purchasing agent, 208 City Hall, Portland, for furnishing one portable automatic pipe saw. WB 3-9. Previous report 2-15

▲GATE VALVES— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing large and small gate valves. LARGE VALVES—LOWEST COMPLETE BIDS: Utilities Supply Co., 7830 N.E. Halsey St., and Waterworks Supplies Co., each bid $27,286. LOW BIDS (Excluding Item 7): Peerless Pacific Co., 2238 N. Interstate Ave., $26,604; Fred G. Greaves Co., Concord Bldg., $26,607. SMALL VALVES — LOW BIDS: Pacific Water Works Supply Co., $2,377; Waterworks Supplies Co., S.E. 24th Ave., $2,631; Utilities Supplies Co., $2,631. Of Portland. Bids received March 6.
WB 3-9. Previous report 2-26

●WATER METERS— Portland, Ore

Bids to be opened 2 p.m., March 21, by city purchasing agent, 208 City Hall, Portland, for furnishing 2,500 water meters. Certified check or bid bond 10%. WB 3-9

●VALVES— Portland, Ore.

Bids to be opened 2 p.m., March 20, by city purchasing agent, 208 City Hall, Portland, for furnishing pressure regulation and altitude valves. Certified check or bid bond 10%. WB 3-9

★GRADING, CONCRETE BRIDGE— Portland, Ore.

Award to S. W. Groesbeck, 2386 Alder St., Eugene, $481,702, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for grading and constructing a 72' reinforced concrete bridge on 9.064 mi. Middle Creek Road and North Fork Middle Creek Road, Coos Bay District, Coos County, Ore., Oregon Timber Access Road Proj. BLM 621-A and 622-A. WB 3-9. Previous report 2-28

★STREET IMPROVEMENTS—Portland, Ore.

Award to Portand Road & Driveway Co., 7295 S.E. King Road, Portland, $6,371, by city auditor, Will Gibson, City Hall, Portland, for improvement of S.W. Washougal Ave. WB 3-9. Previous report 9-7

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened March 1 in Portland.

MOHAWK RIVER BRIDGE—Construction of a 335' reinforced concrete deck girder bridge over the Mohawk River on the Eugene-Marcola Highway, about 5 mi. northeast of Springfield, Lane County; FAP No. S-145(3).

AWARD: Valley Construction Co., 6100 N.E. Columbia Blvd., Portland, $103,560.
SP 3-9. Previous report 3-5

▲STREET IMPROVEMENTS—Portland, Ore.

Bids received by Board of Multnomah County Commissioners, John W. West, purchasing agent, room 504, County Courthouse, Portland, for four street improvement projects. LOW BIDS—S.E. 118TH AVE.: Parker-Fuhrman, 11524 S.E. Foster Road, $3,768; Multnomah Road & Concrete Co., 1130 S.E. 122nd Ave., $3,892; Portand Road & Driveway Co., 7295 S.E. King Road, $3,977. N.E. 184TH PLACE: H. M. Peterson, 13548 N.E. Glisan St., $13,280; Logan, Taylor & Co., 7800 N.E. Killingsworth St., $13,431; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $13,656. S.E. 98TH AVE.: Parker-Fuhrman, $3,515; Multnomah Road & Concrete Co., $3,585; Portland Road & Driveway Co., $3,648. N.E. 42ND AVE.: Warren Northwest, Inc., 9860 N.E. Hancock Drive, $6,951; Logan, Taylor & Co., $7,515; Multnomah Road & Concrete Co., $7,532. Of Portland. Bids opened 7. WB 3-12. Previous report 2-26

●STREET IMPROVEMENTS—Portland, Ore.

Bids to be opened 10:30 a.m., March 21, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for two street improvement projects. Plans with county roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge each project. Certified check or bid bond 10%.

N.E. GLISAN ST.—From Fairview Ave. to Cherry Park Road. Grading, rock base construction and asphaltic concrete surfacing.

Quantities: Clearing and grubbing; 13,600 c.y. general excavation; 681' of 8" to 24" t&g concrete pipe; 64' corrugated iron pipe arch, asphaltic coated; 8,275 c.y. of 2½" minus and 1,674 c.y. of ¾" minus material-in-base; 898 c.y. ¾" minus material in shoulders; 22 tons MC-2 binder course; 2,134 class B asphaltic cocnrete; 166 rods of fence. S.E. 85TH AVE.—From Brooklyn St. about 260' northward. Grading, rock base construction, asphaltic concrete surfacing, curbs and grading sidewalk area. Quantities: 828 c.y. general excavation, unclassified; 270 c.y. 2" minus material in base; 152 tons class B asphaltic concrete; 471' concrete curbs 16" high. WB 3-12

●RELIGHTING BRIDGE— Portland, Ore.

Bids to be opened 10:30 a.m., March 21, by Board of Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for relighting the Ross Island Bridge with mercury-vapor lights and standards. Plans with county roadmaster, Paul Northrup, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%. WB 3-12

★ROCK CRUSHING— Portland, Ore.

Award to Rogers Construction Co., 11760 N.E. Glisan St., Portland, $237,750, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing the development of approximately 115,000 c.y. of 2" to 0" crushed ledge rock at Rocky Butte quarry. (Previous report erroneously gave Newport Construction Co. as low bidder.)
WB 3-13. Previous report 3-1

★TRUCK BODIES— Portland, Ore.

Awards by city purchasing agent, 208 City Hall, Portland, for furnishing and installing truck bodies on city owned equipment.

AWARDS: Hood Douglas Co., 1947 N. Overton, $1,216; American Truck Equipment Co., Swan Island, $1,456; John McMahon, 6708 N.E. Glisan St., $5,938; Pacific Body Builders, 1812 N.E. Grand Ave., $4,3[illegible]; Newell Truck Equipment Co., 315 N. Russell St., $1,074; Pierce Trailer & Equipment Co., 1306 S.E. 9th Ave., $4,505. Of Portland. Bids opened February 20.
WB 3-13. Previous report 2-[illegible]

★CULVERT, PIPE ARCH— Portland, Or[illegible]

Awards to Beall Pipe & Tank Corp., 12[illegible] N. Burgard, Portland, $34,352, and Armco Drainage & Metal Products Co., 1320 S.W. Broadway, Portland, $18,409, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for furnishing culvert sectional plate and pipe arch. Bids opened March 6. WB 3-16. Previous report 2-[illegible]

★LOOKOUT TOWERS— Portland, Or[illegible]

Awards by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., room [illegible] Portland, for lookout towers and houses. AWARDS: Calvert Co., 218 "V" St., Vancouver, $1,948 (wood towers); Cooley-Wolfson Construction Co., 1130 S.E. 122nd Ave., Portland, $28,848 (houses).
WB 3-13. Previous report 2-[illegible]

★STATE HIGHWAY PROJECT— Portland, Or[illegible]

Award announced by Oregon State Highway Commission, Salem, on a highway construction project on which bids were opened February 28 in Portland.

CAPE MEARES LOOP ROAD GRADING—Grading 1.68 mi. Short Creek-Oceanside section of the Cape Meares Loop Road, [illegible] from Oceanside, Tilamook County; FAP No. S-1(4).

AWARD: C. J. Eldon, Box 5686, Portland, $45,451. SP 3-13. Previous report [illegible]

SEWER, STREET IMPROVEMENT— Roseburg, Or[illegible]

Bids will be called in April by Federal Housing Administration, Roseburg, for sewer and street improvement in the Rosebud Homes section of Roseburg, involving 7,[illegible] of 8" to 36" storm sewer and 10,000' [illegible] asphaltic concrete paving and concrete curb. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. SC [illegible]

★SANITARY SEWER SYSTEM— Tigard, Or[illegible]

Award to Frank Kanehl, 5203 S.W. [illegible] Ave., Portland, $157,677, by Tigard Sanitary District, Curt Shirley, secretary, Town Hall, Johnston Bldg., Tigard, for construction of sanitary sewer syste, including approximately 30,000' of 6" to 12" sewer. Plans by Hege and Huston, consulting engineers, 10154 S.W. Park Way, Beaverton.
WB 3-12. Previous report [illegible]

●BOAT BASIN— Warrenton, Or[illegible]

Bids will be opened 2 p.m., April 4, [illegible] Corps of Engineers, Portland office, [illegible] Pittock Block, Portland, for construction of a small boat basin in Skipanon River at Warrenton; CIVENG-35-026-57-177. Specifications with above office. Bid bond 20% Quantities: 306,000 c.y. dredging; 17,000 c.y. levee embankment; 8,000 c.y. gravel blanket SP 3-[illegible]

WASHINGTON

MICROWAVE INSTALLATIONS— Anacortes, Mount Vernon, Wash.
(Estimated cost $98,000)

Installation underway of a microwave transmitter and receiver on top of the West Coast Telephone Co. building on 510 2nd St. in Mount Vernon, according to West Coast Telephone Co., Lloyd Wallgren, district manager, 502 O St., Anacortes. A similar installation will be erected on the main office at the above address in Anacortes. Both installations will be a part of the microwave system being established be-

tween the two cities. A microwave tower on Cap Sante in Anacortes will be of the reflector type. ET 3-9

●WATER FILTERING PLANT—Equipment— **Anacortes, Wash.**

Bids will be opened 8 p.m., April 9, by City Council, City Hall, Anacortes, for equipment for the water filtering plant in Anacortes. Plans with Carey & Kramer, Alaska Trade Bldg., Seattle. Bid bond 5%.

Equipment will involve six low head and three high head pumps; pressure aeriation tanks; pressure filters for air removal; plant to handle 18,000,000 gal. normal capacity, 24,000,000 peak capacity.

PD 3-12. Previous report 2-2

●WATER STORAGE TOWER— **Bellevue, Wash.**

Bids will be opened 8 p.m., April 1, by King County Water District No. 68, S.E. Seventh St., and 95th Ave. S.E., Bellevue, Richard Montgomery, secretary, for construction of a 500,000-gal. elevated steel water tank (Sched. A) and concrete footing for tank (Sched. B). Plans with Howard T. Harstad & Assoc., consulting engineers, 1000 Lenora St., Seattle. $10 deposit. Bid bond 5%. Sched. B also includes miscellaneous underground piping, fittings and valves. PC 3-9

▲SUBSTATION TERMINAL— **Bellingham, Wash.**

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Bellingham Substation PSP & L Co., Terminal No. 2, Whatcom County, 4 mi. northeast of Bellingham city center; Inv. No. 8289. ONLY BID: John M. King Co., 1601 Taylor Way, Tacoma, $19,445. Bids opened March 5.

WB 3-8. Previous report 3-2

●RESERVOIR— **Bremerton, Wash.**

(Estimated cost $2,000,000)

Bids will be opened 10 a.m., April 3, by City Council, City Hall, Bremerton, for construction of a 2,000,000-gallon concrete covered reservoir at 17th St. and Ironsides Ave. in Bremerton. Plans and specifications with E.H.T. McGowan, city clerk at above address, and with John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland. $20 deposit. Quantities include 10,160 c.y. excavation, 1,090 c.y. concrete, and 130,000 lb. reinforcing steel. SC 3-13. Previous report 11-15

★FIRE HOSE— **Bremerton, Wash.**

Award to Roney's, Inc., Box 7435, Portland, $2,750, by City Council, City Hall, Bremerton, for furnishing 1,000′ of 2½" and 1,350′ of 1½" fire hose. Bids opened February 20.

SP 3-13. Previous report 2-5

SANITARY SEWERS— **Camas, Wash.**

Bids will be called in April by City Council, Camas, for a sanitary sewer project, involving pumping station and about 7,500′ of 15" sewer pipe, in the East Highway area of Camas. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. SC 3-7. Previous report 2-26

●REINFORCED CONCRETE RESERVOIR— **Cashmere, Wash.**

Award to Paul Weisner, Route 6, Box 6428, Wenatchee, $35,992 (alt. 1, dome roof), by Town Council, Town Hall, Cashmere, for construction of a 500,000-gallon concrete reservoir in Cashmere. Plans and specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.

IG 3-8. Previous report 2-28

SEWER SYSTEM, DISPOSAL PLANT EXPANSION— **Cheney, Wash.**

Investigations underway by City Council, City Hall, Cheney, for proposed expansion of the sewer system and sewage disposal plant at Cheney. MH 3-8

★BLANKET EXTENSION, REVETMENT REPAIR— **Chief Joseph Dam, Wash.**

Award to Carl Hohner, E. 6208 E. Sharp Ave., Spokane, $69,990, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for Sched. A involved in upstream blanket extension and revetment repair at Chief Joseph Dam, Columbia River, Wash.; ENG-45-108-57-54. Contract for Sched. B has not yet been awarded.

SP 3-9. Previous report 2-22

★BLANKET EXTENSION, REVETMENT REPAIR— **Chief Joseph Dam, Wash.**

Award to Stoen Construction Co., 2210 E. 95th, Seattle, and P. J. Anderson & Sons, 13501 Aurora, Seattle, $215,732 (joint venture), by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for Sched. B incolving an upstream blanket extension and revetment repair at Chief Joseph Dam, Columbia River, Wash.; ENG-45-108-57-54. For contract award on Sched. A see PCD 3-9. SP 3-12. Previous report 3-9

★MOTOR-DRIVEN PUMPING UNITS (Schedule 1)— **Chief Joseph Dam Project, Wash.**

Award to Layne & Bowler, Inc., Memphis, Tenn., $43,934, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for Schedule 1 included in motor-driven pumping units for Brewster Flat pumping plants, Foster Creek Division, Chief Joseph Dam Project, Wash.; DS-4723.

SP 3-13. Previous report 2-27

CURB, SIDEWALK, GRAVEL— **Clarkston, Wash.**

Bids will be called for June 1 bid opening by City Council, Clarkston, for 2,000′ of concrete curb and 4′ wide sidewalk. Purchase is also contemplated by E. W. Asselstine, city engineer, of about 2,000 c.y. crushed rock or gravel. SC 3-8

●SEWAGE TREATMENT PLANT— **Edmonds, Wash.**

Bids will be opened 8 p.m., April 16, by City Council, City Hall, Edmonds, for construction of a sewage treatment plant, the Sunset Avenue lift station and appurtenances at Edmonds. Plans and specifications with Anita Busch, city clerk, at above address, and with James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. $25 deposit. Certified check or cashier's check 5%. SC 3-13

●RIGHT-OF-WAY, ACCESS ROADS— **Eldon, Wash.**

Bid opening extended from March 21 to 2 p.m., April 5, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing the right-of-way and construction of access roads for schedule 2 of the Shelton-Fairmount 115-kv line No. 2, beginning about 1¼ mi. north of Eldon and terminating about 1 mi. south of the tip of Discovery Bay on U.S. Highway No. 101, Mason and Jefferson counties, Wash.; Inv. No. 8308. Specifications with above office.

SP 3-12. Previous report 3-6

★WATER DEPARTMENT SUPPLIES— **Ellensburg, Wash.**

Awards announced by City Council, City Hall, Ellensburg, for city water department supplies to be used during the year in construction and maintenance. AWARDS—CAST IRON PIPE: Pacific States Cast Iron Pipe Co., Smith Tower, Seattle, $11,474. FITTINGS, CLAMPS: Waterworks Supplies Co., E. 5323 Union, Spokane, $1,958. FITTINGS, MISC. ITEMS: Pacific Water Works Supply Co., 2900 1st Ave. S., Seattle, $1,500. SC 3-13

●WASTEWAY EXTENSION— **Ephrata, Wash.**

Bids will be opened 10 a.m., April 2, by Reclamation, Division Ave. and C St. N.W., Ephrata, for PE16.4 wasteway extension, Station 1048+20 to Station 1060+40, about 16 mi. south of Othello and 9 mi. northwest of Mesa, Franklin County, Wash.; Spec. No. 117C-425. Specifications with above office. Bid bond 10%. Project incldes 4,000 c.y. excavation. SC 3-13

●TRACTOR— **Everett, Wash.**

Bids will be opened 10 a.m., March 25, by Snohomish County Commissioners, Courthouse, for one new diesel crawler tractor for use by Snohomish County Road District No. 2. Specifications with above office.

SC 3-13

●■TVOR FACILITIES— **Fairchild AFB, Wash.**

Bids will be opened 10:30 a.m., March 19, by U.S. Air Force, Procurement Office, Fairchild AFB, for construction of VHF-OMNI Directional Range (TVOR) at the base; IFB 45-613-57-61. Specifications with above office.

Planholders: AAA Construction Co., 739 N. Helena; C. J. McGovney, E. 2719 Mt. Vernon; H. C. Grendahl, N. 2128 Water Works St.; Hefte Construction Co., 11607 E. Trent; Lester N. Johnson, 1318 N. Fancher Way, Yardley; Loveland Construction Co., 728 N. Cook; J. L. Matthews, E. 703 40th; Walter Meyers & Son, 1407 N. Calispell; Northwestern Construction Co., E. 1518 20th; P & B, Inc., E. 8903 Main; A. J. Popp Construction Co., W. 205 29th; Vista Construction Co., S. 803 Park Road; Warner & Brown, 2904 N. Madelia; Purvis Construction Co., Box 64, Yardley; Ruud Construction Co., Realty Bldg.; Sceva Construction Co., 2928 N. Madelia; Smith & Roberts, Box 6086; Harold Stallings, E. 1321 18th; Fred Starkley, 1706 S. McCabe Road; Ed Stevens, 11904 E. 19th; Jack Stewart, 5616 N. Audubon. All of Spokane unless noted. LL 3-8

▲STEAM PLANT, DISTRIBUTION SYSTEM— **Fairchild AFB, Wash.**

Bids received by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for construction of an addition to the industrial steam plant and distribution system at Fairchild AFB; ENG-45-108-57-98. Bids opened March 12.

LOW BIDS: Phil McGinnis & Henry George & Sons, Hutton Bldg., Spokane, and Bumstead-Woolford, 1411 4th Avenue Bldg., Seattle, joint venture, $1,065,913 (total with item 2-A, hopper bottom boiler), $1,045,513 (total with alt. item 2-B, boiler convertible to hopper bottom); Sam V. Wallace Construction Co., Dallas, Texas, $1,137,586, $1,086,786; Warren, Little & Lund, W. 120 2nd Ave., and James Smyth Plumbing & Heating, $1,218,667, $1,162,544 (joint venture). Government estimate, $1,199,995, $1,232,995.

SP 3-13. Previous report 3-7

★POWER TRANSFORMER— Frenchman Springs Pumping Plant, Wash.

Award to Wagner Electric Corp., St. Louis, Mo., $43,847, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for a power transformer for Frenchman Springs pumping plant switchyard, Columbia Basin Project, Wash.; DS-4773.

SP 3-13. Previous report 12-12

●■CONVEYOR INSTALLATION— Geiger Field, Wash.

Bids will be opened 2 p.m., April 2, by U.S. Air Force, Procurement Office, Geiger Field, for fabrication and installation of conveyor in Bldg. No. 1397, Geiger Field; IFB 45-614-57-86. Specifications with above office.

Planholders: Air-Mac, Inc., E. 3710 Trent; Bitco, Inc., E. 2920 Trent; Fetterman-Colfax Co., E. 2420 5th Ave.; Francis J. Fallquist, S. 180 Washington; Spokane Machinery, E. 3625 Trent; Joy Mfg. Co., 1 N. Division, Kellogg; Link-Belt Co., N. 1303 Washington; Standard Cycle & Supply Co., E. 1811 Sprague; Riblet Tramway Co., N. 1231 Washington. All of Spokane unless noted.

LL 3-12

●■CRASH BARRIER RELOCATION— Geiger Field, Wash.

Bids will be opened 2 p.m., April 4, by U.S. Air Force, Procurement Office, Geiger Field; IFB 45-614-57-83. Specifications with above office.

Planholders: P & B Co., Inc., E. 8903 Main Ave.; Joe J. Forster, E. 408 Garland; Stewart Construction Co., 9103 N. Division; S. G. Morin & Sons, W. 411 2nd Ave.; Sceva Construction Co., Inc., N. 2928 Madelia; Walter G. Meyers & Son, 1407 N. Calispell; A. J. Popp Construction Co., W. 205 29th Ave.; Loveland Construction Co., 728 N. Cook; Warner & Brown, Inc., 2904 N. Madelia; Starkey Construction, Inc., 1706 S. McCabe. All of Spokane. LL 3-12

●SPILLWAY FLOODLIGHTING—
Grand Coulee Dam, Wash.

Bid opening extended from March 14 to 2 p.m., March 28, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for spillway floodlighting at Grand Coulee Dam, near Odair, Okanogan and Grant counties, Wash.; DC-4856. Specifications with above office.
SP 3-12. Previous report 2-21

●NAVIGATION STRUCTURE AIDS—
Grays Harbor, Wash.

Bids will be opened 2 p.m., March 25, by 13th Coast Guard District, room 922, 619 2nd Ave., Seattle, for construction of ten aids to navigation structures and removal of one aid to navigation structures at Grays Harbor; Bid No. FS-1543. Specifications with above office. Bid bond 5%. SP 3-12

●CONCRETE BRIDGE— Hoquiam, Wash.

Bids will be opened 2 p.m., March 25, by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of 95' reinforced concrete Chester Creek Bridge, about 45 mi. northerly from Hoquiam, Olympic National Forest. Plans with Supervisor, Olympic National Forest, Post Office Bldg., Olympia, or with above office. Includes 115 c.y. concrete and 16 tons reinforcing steel. WB 3-8

SEWER IMPROVEMENTS— Ilwaco, Wash.

N.W. Haner & Associates, consulting engineers, 220 S.W. Alder, Portland, have been retained by City Council, City Hall, Ilwaco, to prepare plans and specifications for sewer improvements at Ilwaco. The improvements must be completed before the $600,000 Baker Bay moorage basin project can be completed. MH 3-5

●IRRIGATION SYSTEM—
Kennewick, Wash.

Bids will be opened 7:30 p.m., March 19, by Kennewick Irrigation District, Van E. Nutley, secretary, 214 W. 1st Ave., Kennewick, for construction of an irrigation system for LID No. 8, Kennewick. Specifications with above office.

Project includes excavation, backfill, furnishing and installation of 923' of pipeline including 48" pipe structure, 6" asbestos-cement pipe, connection to existing 6" concrete pipe and two 90 degree ells. SC 3-9

★TIMBER BRIDGE— King County, Wash.

Award to United Construction Co., Seattle, $11,730, by U. S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland, for construction of Money Creek Bridge on Lowe Creek Road No. 2612, approximately one mi. from King County, Wash.; Inv. No. 179.
WB 3-12. Previous report 2-27

★NILLES CORNER SUBSTATION—
Leahy, Wash.

Award to H. B. Nesheim Construction Co., 6714 36th Ave. S.W., Seattle, $16,429, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Nilles Corner substation, 6 mi. north of Leahy, Douglas County, Wash.; Inv. No. 8283. WB 3-13. Previous report 3-5

▲CATHODIC PROTECTION—
Longview, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of cathodic protection at Longview substation, Cowlitz County, Wash.; Inv. No. 8291. LOW BIDS: The Tide Co., 1512 Center, Tacoma, $8,126; The Farwest Corrosion Control Corp., 5433 Ballard Ave., Seatle, $10,811; The Brandon Co., 6401 Lincoln, Vancouver, $12,600. Bids opened March 6. WB 3-9. Preivous report 3-2

★DIKE REINFORCING— Longview, Wash.

Award announced by supervisors of Consolidated Diking District No. 1 of Longview and West Kelso, for dike reinforcing along the Columbia River between the plants of Longview Fibre Co. and Longbell division of International Paper Co. Bids opened February 28. AWARD: Robert F. Wade, Burlington, $32,970. 2ND LOW: Oakes & Samdal, 2171 38th, Longview, $33,584. 3RD LOW: Earl Richardson, 808 S. 11th, Kelso, $36,300. SP 3-12. Previous report 2-6

TELEPHONE EXPANSION— Lynden, Wash.
(Estimated cost $16,500)

Plans announced by Farmers Mutual Telephone Co., Milton Larson, manager, Lynden, for an expansion program including $10,000 worth of new lines and equipment for the Lynden area. Program will include five new trunk lines to Blaine, five to Custer, six to Deming and two to Laurel. Also, 20 new lines will be added at the general petroleum refinery at Ferndale and 16,000' new cable will be installed for the Birch Bay Area. Construction will start in May. ET 3-5

★PAVING— Lynden, Wash.

Award announced by City Council, City Hall, Lynden, for paving of Grover St. with 3,747 sq. yd. asphalt from 3rd St. to Nooksack Ave. in Lynden. AWARD: C. V. Wilder & Co., 1840 State St., Bellingham, $1.46 per sq. yd. ONLY OTHER BIDDER: Bellingham Paving Co., foot of West St., Bellingham, $1.25 per sq. yd. Contract was not awarded to the low bidder, Bellingham Paving Co., because of the company's apparent inability to meet requirements of the state paving code. ET 3-13

▲SITE CLEARING— Maple Valley, Wash.

Bids received by Tahoma School District No. 409, King County, Lloyd Priebe, superintendent, Route 1, Box 276, Maple Valley, for clearing a 10-acre tract for the proposed Tahoma Elementary School building to be located on the Maple Valley-Hobart Road in Maple Valleq. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Bids opened March 7. LOW BIDS: Bruck Bros., Route 1, Box 66, Port Angeles, $2,250; W. J. Hallenran, 2114 7th Ave. W., Seattle, $2,340; Meridian Construction Co., 10448 S.E. 224th, Kent, $2,430. SP 3-9. Previous report 2-26

■SEWER OUTFALL EXTENSION—
Marysville, Wash.

Planholders announced for construction of a sewer outfall extension at Marysville involving 100' of 30" asbestos-bonded corrugated metal pipe on which bids will be opened 8 p.m., March 18, by Amelie Dockendorf, city clerk, City Hall, Marysville.

Planholders: Harold Kaeser Co., 3629 34th S.; Power Construction Co., 3310 20th Ave. S.; American Pile-Driving Co., Inc., Pier 2, Everett; Captain Henry Finch, 4006 California; Walter McCray, 2370 Fairview N.; Leiter Hockett, 1510 W. 63rd. All of Seattle unless otherwise noted.
PD 3-13. Previous report 3-1

●METERS, PUMP EQUIPMENT—
Moses Lake, Wash.

Bids will be opened 2 p.m., March 26, by Mabel Waterman, city clerk, City Hall, Moses Lake, for furnishing only of four current-wheel type mainline meters and an indicator-totalizer-recorder instrument capable of combining flows from six pumps. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. $5 deposit. IG 3-12

▲STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids received by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids opened March 12.

CITY WATERWAY BRIDGE NO. 1-V/106 Draining, grading, surfacing, paving with type I-1 asphaltic concrete and constructing a precast prestressed reinforced concrete girder bridge approach on 0.191 mi. SSH No. 1-V, Pierce County; FAP No. US-0236(1) Unit 1.

LOW BID: General Construction Co., 3840 Iowa St., Seattle, $822,195. ONLY OTHER BID: Woodworth & Co., Inc., 1200 E. D St., Tacoma, $829,518.

ROADS, BRIDGES—SPOKANE—Clearing, draining, grading, constructing four reinforced concrete slab bridges and a reinforced concrete pedestrian bridge on 2.049 mi. PSH No. 2, Helena St. to Custer St. in Spokane, Spokane County; FAP No. I-002-6(24) Unit 1.

LOW BIDS: Donald M. Drake Co., [illegible] N.W. Savier, Portland, $945,228; Henry Hauman, 425 E. Trent, Spokane, $963,728; Peter Kiewit Sons' Co., Box 1777, Vancouver, $[illegible] 761.

ROADS, BRIDGES — BOUNDARY-LACEY—Clearing, draining, grading, constructing reinforced concrete slab bridge on 1.477 mi. PSH No. 1, Boundary St. to Lacey Rd., Thurston County; FAP No. I-001-2(39).

LOW BIDS: Scarsela Bros., 2207 S. 146th, Seattle, $339,321; Thomas Scalzo Co., [illegible] Airport Way, Seattle, $360,964; Northwest Construction Co., 3950 6th N.W., Seattle, $363,689.

LACEY ROAD OVERCROSSING — Constructing reinforced concrete box girder bridge on 0.072 mi. PSH No. 1, Thurston County; FAP No. I-001-2(41).

LOW BIDS: Troy T. Burnham Co., 1809 Beverly Road, Seattle, $291,427; N. Fiorito Co., Inc., 844 W. 48th, Seattle, $295,825; Pease Construction Co., Box 447, Chehalis, $305,711.

MEADOR AVENUE OVERCROSSING — Construct two reinforced concrete box girder bridges on 0/056 mi. PSH No. 1, Whatcom County; FAP No. I-001-5(14).

LOW BIDS: E. Selena & Sons, 2104½ W. Chestnut, Bellingham, $210,228; Nelson Construction Co. of Ferndale, Inc., Box 1417, Ferndale, $221,959; Croy, 2502 Lakeway Drive, Bellingham, $223,231.

BRIDGES — STOCKFORD — Constructing four reinforced concrete slab bridges on 0.059 mi. PSH No. 1, Stockford Road and County Road No. 4, Clark County; FAP Nos. I-001-1(24) and I-001-1(29).

LOW BIDS: Hannan Bros. Co., 3524 N.E. Going St., Portland, $227,521; Lockyear & White, Inc., Box 687, Longview, $231,925; Peter Kiewit Sons' Co., Vancouver, $240,211.

ROADS, ILLUMINATION SYSTEM—Clearing, draining, grading, surfacing, constructing cement treated base, paving with type I-1 asphaltic concrete and installing an illumination system on 1.130 mi. PSH Nos. 1 and 1, Cowlitz County, Cowlitz River Bridge to Junction PSH No. 1; FAP No. U-004-2(12).

LOW BIDS: Guy J. Norris, 206 W. 72nd, Seattle, $273,717; Morrison & Co., Inc., Box 597, Walla Walla, $289,322; J. N. Conley, 422 N.E. Royal Court, Portland, $294,507.

SURFACING — JERRY-CLOVERLAND ROAD—Surfacing with light bituminous surface treatment on 14.489 mi. Asotin County Road; FAS No. S-0559(5) and State Project.

LOW BIDS: Frank G. Baulne, Inc., 520 E. Boone Ave., Yardley, $55,351; J. F. Konen Construction Co., Inc., 1408 11th, Lewiston, Idaho, $55,465; F. H. DeAtley & Co., Box 648, Lewiston, $56,695.

SURFACING—HOGEYE HOLLOW ROAD—Surfacing with light bituminous surface treatment on 2.083 mi. Columbia County Road, FAS No. S-1130(1).

LOW BID: J. F. Konen Construction Co., Inc., Lewiston, $30,742. ONLY OTHER BID: F. H. DeAtley & Co., Lewiston, $31,407.

SURFACING—WEST SIDE ROAD—Clearing, draining, grading, surfacing with crushed stone on 1.818 mi. San Juan County Road, FAS No. S-0311(2).

LOW BID: Morrison Cecotti, Box 38[illegible] Mount Vernon, $24,980. ONLY OTHER BID: J. M. Bruch Co., Route 3, Box 504, Port Angeles, $26,738.

SURFACING—MONITOR SLIDE — Draining, grading, surfacing with crushed stone on 0.304 mi. PSH No. 2, Chelan County; State Project.

LOW BIDS: C. E. Oneal, Box 270, Ellensburg, $60,451; Russell J. Boe, 9685 Empire Way, Seattle, $76,173; Russell Gillette, Box G, Cle Elum, $80,821.

SURFACING — POMEROY - MT. MISERY ROAD—Surfacing with light bituminous surface treatment on 3.6 mi. SSH No. 3-K, Garfield County; a State Project.

LOW BIDS: Frank G. Baulne, Inc., Yardley, $54,076; J. F. Konen Construction Co., Inc., Lewiston, $54,433; F. H. DeAtley & Co., Lewiston, $56,560.

STOCKPILING—DAVENPORT— Stockpiling crushed stone surfacing and maintenance sand on PSH No. 2, Lincoln County cover stone, mineral aggregates; 106 to Davenport vicinity, State Project, involving 12,000 c.y. stripping borrow and surfacing.

LOW BIDS: F. R. Hewitt Co., E. 5910 Baldwin, Spokane, $24,120; D. A. Sullivan, Box 2[illegible] Parkwater Station, Spokane, $28,100; F. H. DeAtley & Co., Lewiston, $29,250.
DE 3-13. Previous report 3-[illegible]

★AIRSTRIP BOUNDARY LIGHTING— **Omak, Wash.**

Award recommended to G. S. Electric, 3010 67th S.E., Mercer Island, $17,891, by City Council, City Hall, Omak, for boundary lighting improvements, including installation of medium-intensity lighting, at the Omak Municipal Airport at Omak. The low bidder, Regan Electric Co., 18 S. Wenatchee Ave., Wenatchee, $17,672, declined to replace blacktop over underground cable for the system. Recommendation will be sent to the Civil Aeronautics Administration for approval. CK 3-9. Previous report 3-8

UTILITY IMPROVEMENTS— **Opportunity, Wash.**

(Estimated cost $100,000)

Plans announced by Modern Electric Water Co., Tom M. Smith, manager, N. 904 Pines, Opportunity, for improvements in the Opportunity district during 1957, including a $50,000 new storage tank, extensions of the water main grid and increasing the load capacity of transmission and distribution lines of the electric system. SC 3-1

PUD FACILITIES— **Pasco, Wash.**

Plans announced by Franklin County PUD No. 1, Harry Hudlow, manager, 208 S. 4th St., Pasco, for facilities for reserve capacity and alternate service routes to be constructed during 1957. The first project is installation of a third underground cable under the Walla Walla highway from the BPA substation to the PUD's switching station. This will be completed soon. Construction will start soon on a third 12,470-volt line out of the Riverview switching station. It will be connected to the Lucas St. feeder. The PUD will also put up 15 mi. of primary lines in irrigation blocks 14 and 18 to serve new farms. SC 1-3

SEWER SYSTEM (PHASE 1)— **Pasco, Wash.**

(Estimated cost $250,000 to $300,000)

Bids will be called in late March by City Council, Pasco, for the first phase of a long range storm and sanitary sewer system, involving 35,000' of 8" to 12" sewer pipe. Specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. A summer bid call is planned for water treatment plant expansion and distribution system included in the project. SC 3-7. Previous report 2-27

FILTRATION PLANT EXPANSION— **Pasco, Wash.**

Land has been purchased by City Council, City Hall, Pasco, for the expansion of the city's water filtration plant. SC 3-8

●JAW CRUSHER, CONVEYOR— **Port Angeles, Wash.**

Bids will be opened 10 a.m., March 20, by Clallam County Commissioners, Courthouse, Port Angeles, for purchasing one 10"x36" jaw crusher, one 24", 30' long conveyor and one clamshell digging bucket. Specifications with above office. SC 3-9

▲GENERATOR PLANT INSTALLATION— **Port Angeles, Wash.**

Two bids were received by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for installation of diesel engine-driven generator plant and accessories at U.S. Coast Guard Air Station at Port Angeles. BIDS: Cotton Engineering & Shipbuilding Corp., 126 Madison, Port Townsend, $28,065; Owen Bros., Railroad and Oak, Port Angeles, $28,341. Award will be held in abeyance pending receipt of other bids. PD 3-12. Previous report 2-12

★GRADING, SURFACING— **Port Townsend, Wash.**

Award announced by Jefferson County Commissioners, Courthouse, Port Townsend, for clearing, grubbing, grading and surfacing .81 mi. County Road No. 201.45 Lindsay Hill Section. Bids opened March 8. AWARD: Bass Construction Co., 1252 Aurora Ave., Seattle, $19,719. 2ND LOW: William Halleran, 416 Virginia St., Seattle, $21,012. 3RD LOW: J. P. Kvinsland, Port Townsend, $21,115. SP 3-12. Previous report 2-22

★STEEL GIRDER SPAN BRIDGE— **Preston, Wash.**

Award to Dale M. Madden, 3010 E. 163rd, Seattle, $71,185, by King County Commissioners, 402 County-City Bldg., Seattle, for construction of a steel girder span bridge over the Raging River at Preston, Wash. Work will start immediately. PD 3-8. Previous report 2-26

PAVING, RUNWAY— **Pullman, Wash.**

Proposed Spring bid opening has been postponed pending property settlements by Pullman-Moscow Regional Airport Board for a taxi runway paving project at the airport. Mayor Kester B. Grimes of Pullman is chairman of the board which has three members from Moscow, Idaho, and two from Pullman. Project engineer is G. A. Riedesel, 236 Cherry St., Moscow. MH 3-7. Previous report 1-4

●GRAVEL SCREENING PLANT— **Renton, Wash.**

Bids to be opened 5 p.m., March 19, by Elton L. Aexander, city clerk, City Hall, Renton, for purchase of gravel screening plant and bunker. Specifications with clerk. Certified check or bid bond 5%. DC 3-9

▲WELLS— **Richland, Wash.**

Bids received by Atomic Energy Commission, Box 550, Richland, for construction of 20 wells at the Hanford Works in Richland; Inv. No. AT(45-1)-1178. Bids opened March 7. LOW BIDS: Hatch Building Co., Half-moon Bay, Calif., $42,790; R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, $50,145; Western Drilling & Equipment Co., 1545 E. Bay, Tacoma, $57,285. SP 3-9. Previous report 2-21

DAM— **Rock Lake, Wash.**

Survey underway by Luke H. Best of Soil Conservation Service, St. John, Wash., for cost estimates on construction of a 150' long dam to be built at Rock Lake, Whitman County, Wash., by the Palouse-Rock Lake Soil Conservation District and the State Soil Conservation Service, Paul C. McGrew, state conservationist, Spokane. MH 3-13

▲WIRE— **Seattle, Wash.**

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 3,000' wire No. 2, single conductor, 5,000 volt PILC, and 15,440 lb. wire No. 2 single 250 MCH 19 strand base soft drawn copper cable. Bids opened March 6. LOW BIDS—5,000 volt PILC: British Insulated Callenders, 21 Bloomsbury St., London, WCI, England and Enfield Cables Ltd.; James Metcalf & Co., Inc., 100 2nd Ave., Seattle, $1,120 (identical bids). OTHER BID: Simplex Wire & Cable Co. of Calif., 1928 1st S., Seattle, $1,458. LOW BID—15,440 lb. copper cable: Circle Wire & Cable Corp., 506 2nd Ave., Seattle, $7,321. PD 3-8. Previous report 2-20

▲TAPPING VALVES— **Seattle, Wash.**

Bids received by Paul R. Hendricks, city purchasing agent, County-City Bldg., Seattle, for furnishing 10, 4" and 10, 8" tapping valves. Bids opened March 6. LOW BIDS: Pacific Water Works Supply, 2900 1st S., Western Utilities Supply, 5409 Ohio, and Ludlow Valve Mfg., 1252 1st S., $1,375 (identical bids). All of Seattle. PD 3-8. Previous report 2-28

★MOTOR PARTS, HEAT EXCHANGERS, CORPORATION STOPS— **Seattle, Wash.**

Awards to Palmer Supply Co., 222 Westlake Ave. N., Seattle, $1,411 (250 corporation stops), Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle, $1,494 (motor parts), by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for above items.

Contract award still pending for heat exchangers. Low bidder was Griscom-Russell Co., c/o Fairman B. Lee Co., Central Bldg., Seattle, $53,729. PD 3-8. Previous report 3-1

★CHLORINATING STATIONS— **Seattle, Wash.**

Award to Clair E. Prescott, 3516 Airport Way, Seattle, $60,172, by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for construction of three chlorinating stations and alterations to two existing stations to provide housing for chlorinating equipment. PD 3-8. Previous report 2-21

★ASPHALTIC CONCRETE PAVING— **Seattle, Wash.**

Award to Seattle Contracting Co., 101 Nickerson, Seattle, $150,036 (alt. A, cement concrete paving), by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for asphaltic concrete paving of five streets and an alley in LID No. 6143. PD 3-8. Previous report 2-28

★BOUNDARY SECURITY FENCE— **Seattle, Wash.**

Award to Anchor Post Fence Division-Anchor Post Products, Inc., 4502 14th Ave. N.W., Seattle, $4,998, by U.S. Naval Air Station, Lt. Earl Boyd, public works office, U.S. Naval Air Station, Sand Point, Seattle; Spec. No. 6601/57, for approximately 950' of 7' woven wire boundary security fencing to be erected around the air station. PD 3-9. Previous report 2-26

★LATERAL SEWERS— **Seattle, Wash.**

Award to Superior Construction Co., 4610 47th Ave. S.W., $4,787, by Southwest Suburban District, William E. Conley, secretary, 864 S.W. 136th, Seattle, for relaying of lateral sewers in ULID No. 1, contract J of the lateral sewers now under construction in ULID No. 1. Work will be underway soon. PD 3-9. Previous report 2-21

■APRON PAVING, EXTENSION— **Seattle, Wash.**

(Estimated cost $475,000)

Planholders announced for paving and extension of north and west aprons at Pier 48, Seattle, on which bids will be opened 2 p.m., March 21, by Port of Seattle Commission, 406 Bell Street Terminal, Seattle. Specifications with Port office.

Planholders: Larsen Construction Co., 468 Colman Bldg.; General Construction Co., Box 3328; Manson Construction & Engineering Co., 5209 E. Marginal Way. All of Seattle. PD 3-13. Previous report 3-7

●PIG LEAD— **Seattle, Wash.**

Bids will be opened 10 a.m., March 18, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 10 tons pig lead, 50 lb. pigs. Specifications with above office. PD 3-13

■GRADING— **Seattle, Wash.**

Planholders announced for grading the Judkins Street Playground involving 297 c.y. excavating, 881 c.y. top soil placing and grading on which bids will be opened 10 a.m., March 19, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle. Specifications with above office.

Planholders: Seattle Contracting, 101 Nickerson; J. D. Stillwell, 919 Horton St.; Anderson & Akers, 4756 Fauntleroy; John Patricelli, 1534 32nd Ave. S.; Arnold Bulldozing, 2459 Warsaw; L. L. Newburn, 6262 14th Ave. S. All of Seattle. PD 3-13. Previous report 1-3

▲BREAKWATER, SHILSHOLE BAY— **Seattle, Wash.**

Bids received by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for construction of breakwater, Shilshole Bay, Seattle; ENG-45-108-57-46. Bids opened March 12.

LOW BIDS: General Construction Co., 3840 Iowa, Seattle, $1,967,180; Manson-Osberg Co., 1132 N. 128th, Seattle, $2,228,650; Puget Sound Dredging Co., 2929 16th S.W., Seattle, $2,300,020. Government estimate, $1,631,902. SP 3-13. Previous report 3-6

▲ELECTRICAL WIRE— **Seattle, Wash.**

Bids received March 12 by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 180,000 lb. of electrical wire. LOW BID: Central Cable Corporation, 610 Washington Ave., Jersey Shore, Pa., $83,235. PD 3-13. Previous report 2-28

★PUMPING STATION— Seattle, Wash.

Award to C & R Builders, Inc., 1619 8th Ave. N., Seattle, $28,939, by Board of Public Works, 512 City-County Bldg., Seattle, for construction of a reinforced concrete pumphouse and appurtenances at Warren Ave. and Valley St. in Seattle.

DM 3-13. Previous report 2-16

★TRASHRACK PANELS— Seattle, Wash.

Award to Arrow Iron & Machine Works, 1327 Weller, Seattle, $34,915, by Paul R. Hendricks, purchasing agent, 511 City-County Bldg., Seattle, for furnishing trashrack panels for intake structure at Skagit Dam, near Rockport, Wash. Bids opened March 7.

SP 3-13. Previous report 2-22

★ANCHORAGES, FRAMES AND PARTS— Seattle, Wash.

Award to Willamette Iron & Steel Co., 2800 N.W. Front Ave., Portland, $133,294, by Paul R. Hendricks, city purchasing agent, 511 City-County Bldg., Seattle, for furnishing anchorages, frames and appurtenant parts for two 47'x50.32' regulating gates.

SP 3-13. Previous report 3-12

▲SUBSTATION TRACK EXTENSIONS, FOUNDATIONS— Snohomish, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Snohomish substation spur and transfer track extension, foundations and site improvements, about ½ mi. north of Snohomish, Snohomish County, Wash.; Inv. No. 8280. LOW BIDS: Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $27,164; Mann Construction Co., Redmond, Ore., $29,196; Paul E. Hughes, 3023 W. Hood Ave., Kennewick, $31,816. Bids opened March 5 (extended from February 28).

WB 3-8. Previous report 2-16

★COMPRESSOR STATION— Sumas, Wash.

(Estimated cost $2,000,000)

Some contracts have been awarded and others will be in the near future on construction of a compressor station at 2855 Jones Road near Sumas, by Pacific Northwest Pipeline Corp. (main office in Salt Lake City, P. O. Box 1526). The contract for design and supervision is held by Fish Northwest Constructors, Inc., Houston, Tex., and the general contract to handle complete construction of the project has been let by Fish to Hydrocarbon Construction Co., 4604 S. Main St., Houston. Pile driving, electrical work, insulation and other subcontracts will be let by Hydrocarbon as work progresses.

The project which will be located on 42.53 acre site fronting on Jones Road near Sumas, will consist of construction and installation of five steel fabricated buildings to house compresor units, piping, water, electrical and appurtenant utilities. The structures either of corrugated galvanized iron or corrugated transhite, will consist of main compressor building, 44'x117'; auxiliary building, 30'x64'; compressor station fuel meter building, 18'x30'; gas purchase meter area, 18'x60'; office building 30'x60'. Other installations involve high pressure gas pipe, low pressure utility pipe, piling and concrete foundations, high pressure air starting system, oil storage, gas engine generators, heating boiler, switchboard for distribution of elecrical current, water pumping facilities, necessary lighting, highway pressure gas measuring station, roads, sidewalks, grading landscaping.

ET 3-13. Previuos report 2-9

TUNNEL EQUIPMENT ADDITIONS, ALTERATIONS— Tacoma, Wash.

Project will be readvertised by Port of Tacoma Commission, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for construction of additions and alterations to the freezing tunnel equipment, cold storage facilities, on Port Terminal property. The previous bid opening date for this project was March 6.

SP 3-9. Previous report 2-16

★BRIDGE APPROACH REPLACEMENT— Tacoma, Wash.

Award to Hart Construction Co., 3536 E. 11th, Tacoma, $18,736, by Board of Contracts & Awards, room 404, City Hall, Tacoma, for removal and replacement of the west approach to Bridge F-12, located at E. 21st and Canal streets over the Puyallup River, in Tacoma.

SP 3-13. Previous report 2-14

★GRADING, SURFACING, SEWERS— Tacoma, Wash.

Award to Milone & Tucci, Inc., 3215 S. M St., Tacoma, $27,154, by Board of Contracts and Awards, room 404, City Hall, Tacoma, for grading, ballasting, surfacing and constructing storm sewers in an eight-block section of S. 19th St. in Tacoma; Work Order No. 6561-A.

SC 3-13. Previous report 2-19

SEWER SYSTEM— Tacoma, Wash.

A report submitted to City Council, City Hall, Tacoma, by Brown & Caldwell, consulting engineers, 66 Mint St., San Francisco, Calif., has recommended a $30,000,000 construction program for sanitary and storm sewer trunks in the Tacoma metropolitan area by 1975. Highlights of the report are as follows: 1—Recommendation of a $20,283,000 sanitary sewer program to be financed largely by revenue bonds. 2—Recommendation of a $9,958,000 storm drain program to be financed by general obligation bonds. This would remove such projects as the proposed West End storm drain trunk system from the controversial LID category. The report lists projects in order of priority and divides the construction program into three phases: that to be completed by 1958, by 1965, and by 1975.

PRE-1958—STORM DRAINS: Sprague Ave. and Portland Ave. programs which wil be affected by the route of the Tacoma-Seattle-Everett Freeway; West End-Fircrest-Leach Creek program ($1,285,000). SANITARY SEWERS: St. Paul Ave., S. 19th St., S.E. Tacoma Ave. and Portland Ave. extension programs. PRE-1965: Enlargement of the present 13,000,000-gallon-per-day sewage treatment plant to a 40,000,000-gallon plant, with a possible temporary plant on the east side of the tideflats. PRE-1975: Increase Storm Sewer, Street Improvement, Lighting. of plant from 40,000,000 gallons to 80,000,000 gallons per day. SC 3-134. Previous report 1-26

★STATE HIGHWAY PROJECT— Tumwater, Wash.

Award announced by Washington State Highway Commission, Olympia, for a highway construction project on which bids were opened February 28 in the office of J. C. Claypool, district engineer, Tumwater.

BRIDGE WIDENING — McDONALD CREEK: Widening the existing concrete bridge and approaches at McDonald Creek, Bridge No. 9/202, on PSH No. 9, Jefferson County; a State Project.

AWARD: Fred Nygren, 3212 Government Way, Seattle, $6,548.

DE 3-9. Previous report 2-9

●SUBSTATION BAY— Tumwater, Wash.

Bids will be opened 2 p. m., March 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of bay No. 9, Olympia substation, two mi. southwest of Tumwater, Thurston County, Wash.; Inv. No. 8313. Specifications with above office. Bid bond 25%.

Quantities: 130 c.y. structural excavation; 34 c.y. reinforced concrete footings; 20 c.y. duct system excavation; 11,200 lb. steel erection; station equipment installation; 345 sq. ft. concrete sidewalks; 30 c.y. crushed rock.

SP 3-12

★TERMINAL CONNECTORS— Vancouver, Wash.

Award to Graybar Electric Co., 809 N.W. Flanders St., Portland, $611, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, 25,000 terminals; Inv. No. 8269. Bids opened February 6.

WB 3-2. Previous report 1-25

★STREET IMPROVEMENT— Vancouver, Wash.

Award by Vancouver Housing Authority, Fred Senechal, executive director, McLoughlin Heights, Vancouver, for street improvement in Lieser Crest-10 and Morrison Road in McLoughlin Heights. AWARD: W. P. Snider, 4110 N.E. Jaggy Road, Vancouver, $8,449. 2ND LOW: Raymond Concrete Pipe Co., 2323 N.W. Flanders St., Portland, $8,5[illegible]. Bids opened March 6.

WB 3-8. Previous report 2-2[illegible]

●FIRE PUMP— Vancouver, Wash.

Bids will be opened 2:30 p. m., March 2[illegible] by Bonneville Power Administration, 100[illegible] N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, one centrifugal or turbine type fire pump; Inv. No. 8311. Specifications with above office.

SP 3-[illegible]

●STORM SEWER— Vancouver, Wash.

Bids to be received at 1 p. m., March 2[illegible] and opened at 1:30 p. m. by city purchasing agent, R. E. Moisant, 712 Washington St., Vancouver, for partial storm sewer in 39th St. from Kauffman to Main, and in Columbia St. from 4th to 7th. Plans with engineering department. $15 deposit. Bid bond, certified check or cashier's check 5%.

Quantities: 1,894' of 21" to 8" sewer pipe; 7 precast concrete dry wells; 42 c.y. backfill for dry wells; catch basin; 4 existing catch basins connected to street inlet basins; 2[illegible] sq. yd. bituminous surfacing; 431 sq. yd. asphaltic concrete surfacing; 960 c.y. trench excavation and backfill.

WB 3-[illegible]

★PUMP STATION— Vancouver, Wash.

Award to Heigele Home Construction Co., 4034 N.E. 18th Ave., Portland, $9,792, by city purchasing agent, Robert Moisant, 12[illegible] Washington St., Vancouver, for construction of a 20'x39' reinforced concrete booster pump station building in east Vancouver.

WB 3-12. Previous report 2-2[illegible]

★LATHE— Wenatchee, Wash.

Award to West Coast Machinery Co., 2[illegible] 1st Ave. S., Seattle, $4,810, by Chelan County Commissioners, Robert H. Lake, board clerk, Courthouse, Wenatchee, for one geared head precision bearing lathe. Bids opened February 18.

SP 2-28. Previous report 2-[illegible]

★TRUCK, FLAT BED TRAILER— Wenatchee, Wash.

Award to Northwest Truck Sales, Inc., 2[illegible] 6th Ave. S., Seattle, $24,811, by Chelan County Commissioners, Courthouse, Wenatchee, for one truck and flat bed trailer. Bids opened February 18.

SP 3-8. Previous report 2-[illegible]

★CAPACITOR BANK— Wenatchee, Wash.

Award to Barnes Electric Co., Inc., 11[illegible] N. Aberta St., Portland, $7,602, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of capacitor bank No. 3, Valhalla substation, Chelan County, about eight mi. southeast of Wenatchee, on the county road which passes through Malaga and adjacent to the reduction plant of the Aluminum Co. of America.

WB 3-8. Previous report 2-2[illegible]

●CIRCUIT BREAKERS, INTAKE GATES— Wenatchee, Wash.

Bids will be opened April 5 by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for furnishing six 15-kv station type indoor generator circuit breakers, to be of the air blast breaker type, and nine intake gates, about 24' wide and 50' high, and 66 sets of intake gate and trashrack guides for the Rocky Reach Hydroelectric project on the Columbia River. Specifications with above office.

SP 3-[illegible]

▲STEEL FRAMING— Wenatchee, Wash.

Bids received by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for furnishing and delivering approximately 1,090 tons of structural steel framing for the powerhouse for Rocky Reach Hydroelectric Power Project located on the Columbia River at Wenatchee. Plans and specifications by Stone & Webster, engineers, 707 Lloyd Bldg., Seattle. Bids opened March 8. An apparent low bidder was difficult to determine because of the diversity of terms in the pro-

posal. BIDDERS: Isaacson Iron Works, 8531 E. Marginal Way, Seattle, $268 per ton for framing powerhouse roof with trusses, $256 alternative for rigid framing. Fought & Co., Swan Island, Portland, $16.47 per cwt. ($329.40 per ton) for roof trusses plus 13.97 per cwt. ($309.40 per ton) for floor beams; $15.47 cwt. ($279.40 per ton) for rigid Co., 120 W. Hudson, Seattle, $13.97 per cwt. for floor beams. Pacific Car & Foundry Co., 120 W. Hudson, Seattle, $13,97 per cwt. ($309.40 per ton) for roof trusses, $15.45 per cwt. ($309 per ton) for rigid framing. Bethlehem-Pacific Coast Steel Corp., 3631 E. Marginal Way, Seattle, $241.40 per ton for trusses, $254.80 per ton for rigid framing. Gate City Steel of Boise, 4000 Warm Springs Ave., Boise, Idaho, $295 per ton for trusses, $267 per ton for rigid framing. American Bridge Division of U. S. Steel, U. S. National Bank Bldg., Portland, $297.40 per ton for trusses, $312 per ton rigid framing; Pubus Steel Co., 3 Orondo, Wenatchee, $389.50 per ton for trusses, $374.50 per ton for rigid framing. SP 3-12. Previous report 2-8

★SIDEWALKS, CURBS, DRAINS— Westport, Wash.

Award to Harold Hegg, 2640 Queets Ave., Hoquiam, $36,404, by Port of Grays Harbor Commissioners, Port Terminal No. 1, between Aberdeen and Hoquiam (Box 1100, Aberdeen), for construction of concrete sidewalks, curbs and drains at Westhaven Fishing Base in Westport.
SP 3-13. Previous report 3-6

★ROAD GRADER— West Richland, Wash.

Award to Columbia Equipment Co., 1240 S.E. 12th Ave., Portland, $3,800, by Town Council, Town Hall, West Richland, for one used road grader comparable to Caterpillar 11. Bids opened February 19 and held under advisement. SP 3-13. Previous report 2-15

● WATER MAIN— White Salmon, Wash.

Bids will be opened 8 p.m., P.S.T., March 26, by Sophie N. Burkett, town clerk, City Hall, White Salmon, for construction of a water main. Specifications with clerk and with N. W. Haner & Associates, consulting engineers, 220 S.W. Alder, Portland. $10 deposit. Certified check, cashier's check or bid bond 5%. DC 3-13

WATER MAIN REPLACEMENT— Yacolt, Wash.

Cort Miller of Yacolt has been retained by City Council, City Hall, Yacolt, to prepare plans and specifications for replacing a section of the 50-year-old wooden water main involved in the city's water system. Plans under consideration for this year include replacing about ½ mi. of the water line leading from the reservoir, the first step in installation of an 8" steel main from the reservoir to Yacolt. A trench about 10' deep will have to be excavated through solid rock at the reservoir so that the new line can utilize gravity flow. Bids will be called about May, according to Mayor Albert H. Benge. SC 3-13

ASPHALT PRESSURE DISTRIBUTOR— Yakima, Wash.

Bids rejected and will not be readvertised by City Council, City Hall, Yakima, for purchase of an asphalt pressure distributor pump and spray-bar assembly for the city street department.
IG 2-28. Previous report 2-20

★WELDER AND GENERATOR— Yakima, Wash.

Award announced by J. S. Applegate, clerk, Metropolitan Park District, room 125, City Hall, Yakima, for purchase of one 200 amp. gasoline engine driven portable electric combination welder and generator. Bids opened February 28. AWARD: Welder Supply Co., 1919 N. 4th, and Yakima Supply Co., both of Pasco, $697 (joint venture).
IG 3-6. Previous report 2-21

★TURBINE PUMP— Yakima, Wash.

Award to DeCoto Bros., 713 S. 1st St., Yakima, $1,668, by City Council, City Hall, Yakima, for a turbine pump with a capacity of 1,000 gal. per min. at 85' head for the irrigation department.
IG 3-7. Previous report 2-28

● PIPE AND LAWN IRRIGATION EQUIPMENT— Yakima, Wash.

Bids will be opened 5 p.m., March 18, by Yakima School District No. 7, Arthur E. Church, clerk, 112 N. 4th St., Yakima, for purchase of grass seed and pipe and lawn irrigation equipment for the school district. Specifications with above office. IG 3-8

★GRADER, TRUCKS— Yakima, Wash.

Awards announced by Yakima County Commissioners, Courthouse, Yakima, for purchasing motor patrol grader, 2½-ton truck chassis and cab, and five 2-ton truck chassis and cabs. AWARDS — GRADER: Caldwell Machinery Co., 4614 8th N.W., Seattle, $19,081 (Huber-Warco model). 2-TON TRUCKS: Burrows Motor Co., 921 S. 1st, Yakima, $2,632 (Ford). 2½-TON TRUCK: Vic Duffin, Sunnyside, $3,344 (Ford).
IG 3-9. Previous report 3-7

★GLUED LAMINATED STRINGERS— Yakima, Wash.

Awards to Webster Lumber Mills, Seattle, $2,983, for treated lumber, and to International Paper Co., Longview, $4,716, for glued laminated stringers, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for above materials fob Bumping River Bridge site, approximately 45 mi. northwest of Yakima.
WB 3-13. Previous report 2-12

IDAHO

CURBS, GUTTERS, SIDEWALKS— Alameda, Idaho

Two resolutions have been adopted by City Council, City Hall, Alameda, for the formation of two $500,000 special improvement districts, one for curb and gutter construction and the other for sidewalks, in Alameda. SC 3-5. Previous report 10-25

★SEWER— Boise, Idaho

Award to Eagle Construction Co., 3200 Pleasanton Ave., Boise, $5,532, by City Hall, R. E. Edlefson, purchasing agent, 6th and Bannock streets, Boise, for construction of 945' of 8" concrete sewer in Juanita St., LID No. 134, Boise.
PD 3-6. Previous report 2-27

● STEEL SHEETS, BARS, PLATES— Boise, Idaho

Bids will be opened 2 p.m., March 19, by Ted Cramer, state purchasing agent, room 225, State House, Boise, for steel sheets, bars and plate for the highway department at Boise; Req. No. 6007. Specifications with above office. SC 3-13

● SEWER LINES— Caldwell, Idaho

Bids will be opened 8 p.m., March 18, by City Council, City Hall, Caldwell, for installation of sewer lines in LID No. 38, involving a portion of Caldwell. Specifications with Melvin Lewis, city engineer, at above address. Bids were previously opened February 28 and rejected as too high. SC 3-8

WATER, SEWER SYSTEM— Cottonwood, Idaho

(Estimated cost $120,000)

Bond election will be held by Town Council, Town Hall, Cottonwood, for a $60,000 bond issue to partially finance adequate water and sewage facilities in Cottonwood. Bids will be opened in June. Plans call for equipping well, additions to water and sewage systems, construction of sewage lagoons and one mile of outfall sewer line.
PD 3-6. Previous report 1-30

● TEST AND DISPOSAL WELLS— Idaho Falls, Idaho

Bids will be opened 3 p.m., March 27, by Atomic Energy Commission, 550 2nd St., Idaho Falls, for drilling, casing and testing advance planning test walls and disposal wells at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-892. Specifications with above office. Bid bond 10%.

Quantities: 835' disposal well holes, minimum diameter of 15" to depths not greater than 420'; 2,665' test well holes, 15" diameter, 215' to 670' depths; 2,860' plain casing; 640' perforated casing; 3,200' galvanized iron pipe; 35 c.y. packing gravel. SP 3-12

▲WATER SYSTEM ADDITION— Kamiah, Idaho

Contract has not yet been awarded by Village of Kamiah, Town Hall, Kamiah, for construction of an addition to the water system. Seven bids were received for the February 18 bid opening with the low bidder being Howard Snyder, Lewiston, $8,444.
SP 3-8. Previous report 2-7

SEWAGE TREATMENT PLANT— Lewiston, Idaho

Bond issue for $600,000 approved in February 26 election held by City Council, Lewiston, to partially finance construction of a sewage treatment plant, pumping station and trunk line across Clearwater River, and interceptor sewers. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. Completion planned during 1959. SC 3-5. Previous report 12-21

TRANSMISSION LINE— Lewiston, Idaho

Bids will be called about April by Clearwater Power Co., 1835 G St., Lewiston, for construction of a 34,000-volt transmission line from Clarkston to Anatone, according to Robert S. Dole, company engineer. Engineering survey of the line will be underway soon by Roberts & Associates of Lubbock, Texas. The line is part of a construction program designed to expand the company's service, extending it to the Troy-Flora area of the Grand Ronde River section of Oregon. Transformers and equipment have been ordered for substations near Genesee and Tensed and at Anatone. The transmission line will connect with a 25,000-volt distribution line to be constructed into Oregon.
SC 3-9

● SUBSTATION— Lewiston, Idaho

Bids will be opened 2 p.m., March 28, by Bonneville Power Administration, 1001 N.E. Lolyd Blvd., Portland, Ore., for construction of Clarkston Substation, 4 mi. west of Lewiston, Nez Perce County, Idaho; Inv. No. 8317. Specifications with above office. Bid bond 25%.

Quantities: 525 c.y. excavation and grading; 160 c.y. structural excavation; 33 c.y. reinforced concrete footings; 15,300 lb. steel erection; installation of station equipment; 140 sq. ft. concrete sidewalks; 285 c.y. crushed rock; painting; 650' pulling in control cable; includes control house, latrine and switchboard installation. SP 3-12

● RADIO EQUIPMENT— Minidoka Project, Idaho

Bids will be opened 2 p.m., March 18, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for VHF radio equipment for the North Side Pumping Division, Minidoka Project, Idaho; Inv. No. (D) B-5710-A. Specifications with above office. SP 3-8

WATER SYSTEM IMPROVEMENTS— Moscow, Idaho

Bond election will be held April 23 by City Council, City Hall, Moscow, for a $1,032,500 bond issue to finance a water treatment system and expansion and improvement of sewage treatment plant and sewage lines in Moscow. Funds include the following: water purification plant, $685,000; sewage disposal plant additions, $295,000; water development, $40,000; new cemetery well, $12,000.
MH 3-5. Previous report 12-21

● EARTHWORK, STRUCTURES— Rupert, Idaho

Bids will be opened April 18 by Bureau of Reclamation, Rupert, for earthwork and structures for Main Canal East, Michaud Flats Project, near American Falls, Idaho;

Spec. No. DC-4872. Specifications with reclamation office in Rupert and at Bldg. 53, Denver Federal Center, Denver, Colo.

Quantities: 487,000 c.y. excavation; 190,000 c.y. compacting embankments; 10,480' reinforced concrete culvert and pressure pipe. Completion time 330 days. DM 3-9

MONTANA

●CRUSHED ROAD MATERIALS— Billings, Mont.

Bids will be opened for the second time 5 p.m., March 26, by City Council, City Hall, Billings, for purchase of 25,000 ton crushed road materials and 5,000 ton stone chips for use by city street department. Specifications with above office.

EE 3-12. Previous report 3-2

★CONTROL SHAFT, POWER HOUSE FOUNDATION— Fort Peck, Mont.

Award to E. V. Lane Corp., Box 417, Palo Alto, Calif., $2,794,115, by Corps of Engineers, Garrison District, Riverdale, N. Dak., for altering existing control shaft and constructing foundation for a second powerhouse at Fort Peck; CIVENG-32-015-46-1.

SP 3-13. Previous report 2-13

●PAVING— Glasgow, Mont.

(Estimated cost $610,000)

Bids will be opened 8 p.m., March 26, by City Council, City Hall, Glasgow, for paving in two special improvement districts, involving 73 blocks in the south side residential district (SID No. 80) and 19 blocks in the Bell Addition on the north side (SID No. 81), at Glasgow. Plans and specifications with Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena.

Project includes installation of combined curbs and gutters, excavation, grading, base course, removal of existing curbs, crosswalks and gutters, and adjusting elevations on manholes, valve boxes and storm drain inlet covers. SC 3-13. Preivous report 3-1

★PICKUP TRUCK— Helena, Mont.

Award to Frontier Motors, Inc., 801 N. Main St., Helena, $2,000 (including trade-in), by City Council, City Hall, Helena, for a new one-ton pickup truck. Bids opened March 4.

LS 3-8. Previous report 2-20

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids will be opened 9:30 a.m., March 28, by Montana State Highway Commission, Helena, on construction of 10 highway projects. Specifications with office of Scott P. Hart, state highway engineer, Helena. Certified check, cashier's check or bid bond 5%.

GRADING, SURFACING — BAKER - WIBAUX ROAD: Grading, graveling, surfacing, bituminous surface treatment, draining 10.261 mi., Fallon County, F2(14).

Quantities: 620,892 c.y. excavation; 68,878 mi. yd. overhaul; 169,607 ton crushed gravel; 41,537 c.y. sand base; 12,693 M. gal. watering; 2,140 unit rolling; 62,172 gal. liquid asphalt; 62,173 gal. emulsified asphalt; 1,850' reinforced concrete pipe; 876' relay pipe culverts; 74 c.y. gravel backfill. Completion time 300 calendar days.

BRIDGE—BASIN CREEK: Steel and concrete 23.25' bridge in town of Basin on Butte-Boulder Road, Jefferson County; F242(14).

Quantities: 13,206 lb. reinforcing steel; 97.6 c.y. class A concrete; 46.4 c.y. class AD concrete; 47.5' steel bridge rail; 450 c.y. structure excavation. Completion time September 30, 1957.

GRADING, SURFACING — OVANDO-ROGERS PASS ROAD: Grading, gravel surfacing, bituminous surfacing treatment, draining 4.104 mi. near Cadotte Creek, Lewis and Clark counties; F267(7).

Quantities: 110,081 c.y. excavation; 5,302 mi. yd. overhaul; 41,693 ton crushed gravel; 47,287 gal. liquid asphalt; 2,483 M gal. watering; 100 c.y. gravel backfill; 278' reinforced concrete pipe culvert. Completion time 100 calendar days.

DYKE, BRIDGES — DILLON - TWIN BRIDGES ROAD: Dyke, riprap and 19' treated timber pile bridge on 0.034 mi., Madison County; F387(7).

Quantities: 8,653 c.y. excavation; 174 c.y. riprap; 130 M gal. watering; 14.266 MBM treated timber; 530' treated timber piles; 0.374 MBM untreated timber. Completion time August 31, 1957.

GRADING, SURFACING — CIRCLE-SIDNEY ROAD: Grading, gravel surfacing, bituminous surface treatment, draining 10.615 mi., Richland and Dawson counties; F391(4).

Quantities: 853,591 c.y. excavation; 3,279 c.y. gravel backfill; 62,967 mi. yd. overhaul; 201,106 ton crushed gravel; 63,325 gal. liquid asphalt; 63,325 gal. emulsified asphalt; 16,735 M gal. watering; 2,964' corrugated metal pipe culvert; 1,464' structural plate pipe culvert. Completion time 400 calendar days.

GUARD RAIL—DRUMMOND-HELMVILLE ROAD: Construct 1,512.5' steel guard rail, Granite County; S36(6).

Completion time 60 calendar days.

GRADING, SURFACING — COLUMBUS SOUTHEAST and RED LODGE-COLUMBUS ROAD: Grading, gravel surfacing, road mix oiling, draining -.795 mi., Stillwater County; S154(2), S288(3) Unit 1.

Quantities: 56,400 c.y. excavation; 2,342 mi. yd. overhaul; 11,578 ton crushed gravel; 17,014 gal. liquid asphalt; 4,204 gal. emulsified asphalt; 1,053 M gal. watering; 214' corrugated metal pipe culvert; 100 c.y. gravel backfill; 630 c.y. random riprap. Completion time 120 calendar days.

GRADING, SURFACING—RAYNESFORD-SOUTH ROAD: Grading, gravel surfacing, draining 5.259 mi., Cascade and Judith Basin counties: S183(2).

Quantities: 5,535 mi. yd. overhaul; 214 c.y. gravel backfill; 31,162 ton crushed gravel 3,343 M gal. watering; 654 c.y. binder; 1,308 mi. yd. overhaul; 1,795' reinforced concrete pipe culvert; 74' concrete sewer pipe; 180' structural plate stockpass. Completion time 200 calendar days.

GRADING, SURFACING — GALATA-NORTH ROAD: Grading, gravel surfacing, draining 8.857 mi., Toole County; S188(2).

Quantities: 199,548 c.y. excavation; 4,312 mi. yd. overhaul; 38,523 ton crushed gravel; 1,205 c.y. binder; 2,410 mi. yd. overhaul on binder; 3,744 M gal. watering; 2,226' corrugated metal pipe culvert. Completion time 200 calendar days.

GRADING, SURFACING — CLEVELAND-CHINOOK ROAD: Grading, gravel surfacing, two 38' treated timber bridges, draining 7.225 mi., Blaine County; S340(3).

Quantities: 239,824 c.y. excavation; 6,139 mi. yd. overhaul; 47,662 ton crushed gravel; 4,520 M gal. water ring; 1,049 c.y. binder; 2,771' corrugated metal pipe culvert; 87' structural plate pipe culvert; 1,292 lb. structural steel. Completion time 180 calendar days. DM 3-12

●TRANSFORMER ADDITIONS— Kalispell, Mont.

Bids will be opened 2 p.m., March 26, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 15 mva transformer additions at Kalispell Substation, Flathead County, Mont.; Inv. No. 8312. Specifications with above office. Bid bond 25%.

Quantities: 370 c.y. excavation and grading; 375 c.y. structural excavation; 91 c.y. reinforced concrete footings; 430 c.y. duct system excavation; 45,800 b. steel erection; installation of station equipment; painting; 415 c.y. crushed rock. SP 3-9

●ROAD OIL— Kalispell, Mont.

Bids will be received until 12 noon, April 2, by Bud Hunt, city clerk, City Hall, Kalispell, and will be opened at 8 p.m., by the City Council, for furnishing 60,000 gal. "dust" oil and 150,000 gal. of MC and RC roadmix oil, grades 2, 3 and 4. Specifications with above office and with city engineer at same address. RB 3-9

★WATER PRESSURE TANK— Kalispell, Mont.

Award announced by City Council, City Hall, Kalispell, for furnishing a 3,000-gallon steel water pressure tank to be installed to serve the North Ridge Heights housing development at the northern edge of Kalispell. AWARD: Kalispell Mercantile Co., 1st Ave. E., Kalispell, $2,497. OTHER BIDDERS: Waterworks Supplies Co., E. 5323 Union, Spokane, $2,292; Consolidated Supply Co., W. 1121 Gardner, Spokane, $2,536. RB 3-1

●BITUMINOUS PAVING— Missoula, Mont.

Bids will be opened 10 a.m., March 27, by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for bituminous paving on 28.660 mi. of Swan River Highway, Flathead National Forest, Missoula and Lake counties, Mont.; Montana FHP 15-A3, D1, E1, G1, R1. Specifications with above office. Bid bond 5%.

Quantities: 27,000 c.y. excavation; 30,000 c.y. mi. overhaul; 27.348 mi. fine grading; 76,200 c.y. crushed gravel; 915,000 gal. asphalt; 46,000 ton plantmix; 14,250' beam guard rail. SP 3-6

●WATER SYSTEM ADDITIONS, IMPROVEMENTS—Thompson Falls, Mont.

Bids will be opened for the second time at 5 p.m., March 29, by Town Council, Town Hall, Thompson Falls, for furnishing and installing approximately 700' of 10", 6,200' of 8", 6,000' of 6" and 900' of 4" pipe. Alternate proposals for asbestos-cement and steel pipe will be considered. Plans with W. E. Thompson, consulting engineer, 224 Realty Bldg., Spokane. Bids which previously opened March 5 and subsequently rejected are as follows: Schimmels Construction Co., E. 8423 Sprague, Spokane, $47,518; Bud King, 1203 Wyoming, Kalispell, $55,000.

LL 3-12. Previous report 2-21

WYOMING

SEWAGE DISPOSAL SYSTEM— Casper, Wyo.

(Estimated cost $1,338,475)

Bond election will be held in May by Board of Public Utilities, room 126, City-County Bldg., Casper, for a $1,100,000 bond issue to finance construction of a sewage disposal system for the city of Casper. Plans and specifications by Robert L. Streeter, consulting engineer, 451 Divine Ave., Casper. A 20-acre tract near the outfall of the present Pineview sewer has been recommended as the site for the sewage disposal plant. LY 2-28. Previous report 12-22

●SUBSTATION, POWERPLANT ADDITIONS— Guernsey, Wyo.

Bids will be opened 10 a.m., April 11, by Bureau of Reclamation, Glendo, for construction of 115- and 34.5-kilovolt additions to Guernsey substation, switchyard and powerplant, Transmission Division, Missouri River Basin Project, near Guernsey, Platte County, Wyo.; DC-4867. Specifications with above office. Bid bond 10;%. Completion time 210 calendar days.

Quantities: 150 c.y. excavation for structures; 30' excavation for foundations; 100 c.y. compacting backfill; 60 c.y. gravel and gravel surfacing; 70 bbl. cement; 50 c.y. concrete; 3,250 lb. reinforcement bars; 12,000 steel structures; 50' vitrified clay pipe; 920' copper cable; 65' rigid metal conduit; 3,700' insulated cable. SP 3-6

●CHIP SEALING— Wind River Indian Reservation, Wyo.

Bids will be opened April 4, by U.S. Bureau of Indian Affairs, Billings, for chip sealing 6.2 mi. of the Fort Washakie-Arapahoe Road, Wind River Indian Reservation, Fremont County, Wyo. Specifications with above office. EE 3-13

UTAH

★WATER SYSTEM IMPROVEMENTS— Circleville, Utah

Award to Ace Plumbing & Heating Co. and King Welding Co., Hurricane, $23,603 (joint venture), by Town Council, Circleville, for waterworks system improvements at Circleville. Specifications by Hansen Engineering Co., 305 Commercial Bank Bldg., Richfield. GH 3-13. Previous report 3-5

●TRANSFORMER BANK INSTALLATION— Hill AFB, Utah

Bid opening extended from 10 a. m., March 1, to 1 p. m., May 20, by U.S. Air Force, Commander, Ogden Air Materiel Area, Directorate of Procurement & Production, Attn: OOPPCS, Hill AFB, for installation of a new transformer bank in Bldg. 265 for additional power at Hill AFB; IFB 42-600-57-259. Specifications with above office. Bid bond 20%. GH 3-8. Previous report 2-27

POWERPLANT ADDITIONS— Magna, Utah
(Estimated cost $16,000,000)

Engineering bids will be sent soon to a select list of contractors, by Utah Copper Division of Kennecott Copper Corp., A. J. Thull, chief engineer for the division, Kearns Bldg., Salt Lake City, for construction of a 75,000 kilowatt powerplant addition to the central generating facilities at Magna. Later, a prime contract will be let for the construction of the facilities. Work should start by next fall with the completion of generating equipment installation being within 2½ years.

The project entails installation of the generator in the turbine-generator department of the present buildings at the central power station. The new 75,000-kw generator will join two 25,000-kw and 50,000-kw generators in the four-story structure. The building will be extended north about 40' to 50' to provide additional working room. To the east of the central power station will be built six-story cooling towers, the water for which will be supplied from existing reservoir systems at the company's operations. Changes and additions in coal handling facilities will also be a part of the additions. SC 3-12

●OUTLET SEWER— Ogden, Utah

Bids received by Central Weber Sewer Improvement District in the office of the city manager, City County Bldg., Ogden, for construction of Section 6, Outlet Sewer No. 2 in Ogden, involving 9,596' of reinforced concrete pipe, 204' tunnel lining plate, 9,397' gravel fill. Specification by Grix & Mueller - Henningson, Durham & Richardson, Inc., 393 Riverdale Road, Ogden. LOW BIDS: Knudson Construction Co., 602 North, $119,644; Smedley Plumbing and Heating Co., Syracuse, $120,247; Wheelwright Construction Co., 2300 E Ave., $124,252. All of Ogden. Bids opened March 4. DM 3-12. Previous report 2-6

★STATE HIGHWAY PROJECT— Salt Lake City, Utah

Award announced by Utah State Road Commission, State Capitol, Salt Lake City, for a highway construction project on which bids opened February 19. For previous awards on this bid opening, see PCD 3-7.

UNDERPASS—DEVILS SLIDE: Concrete underpass 45.25' 0 to 0, about .009 mi. on U. S. No. 30-S situated ¼ mi. easterly from Devils Slide, Morgan County; FAP No. F-023-1(1) 2nd Contract.

AWARD: Max Jones Construction Co., 956 N. 900 East, Provo, $42,446. SP 3-8. Previous report 2-26

▲GOVERNORS—Weber Basin Project, Utah

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering three governors for regulating speed of hydraulic turbines, Schedules 1 and 2, for Wanship Powerplant and Gateway Powerplant, Weber Basin Project, Utah; DS-4843. Bids opened March 7. ONLY BID: Woodward Governor Co., Rockford, Ill., $41,414 fob Rockford. SP 3-13. Previous report 2-1

ALASKA

■MICROWAVE— Anchorage, Alaska

Planholders announced for 50 mi. of microwave communication system between Anchorage and Portage, on which bids will be opened 2 p. m., March 22, by Alaska Railroad, in the office of F. W. Shellhern, superintendent of communications, Anchorage.

Planholders: Motorola Communications & Electronics, Chicago, Ill.; Collins Radio Co., Inc., Burbank, Calif.; Radio Corporation of America, Camden, N. Y. SP 3-13. Previous report 3-5

SEWERS, STREETS, BULKHEADS— Cordova, Alaska
(Estimated cost $240,000)

Bids will be called about March 20 by Alaska Public Works, Box 1181, Juneau, for construction of sewers, streets, bulkheads in Cordova; Proj. Aaa 50-A-43. Plans have been completed with the exception of obtaining easements. JU 3-13. Previous report 1-26

ELECTRICAL DISTRIBUTION SYSTEM— Eielson AFB, Alaska

Project on which bids were to have been opened 2 p. m., March 15, has been cancelled by Corps of Engineers, Alaska District, in the office, Seattle district, 4735 E. Marginal Way, Seattle, for construction of about 37 mi. of 7,200-volt overhead electrical distribution lines from the powerhouse at Eielson AFB to four outlying Air Force facilities to provide an electrical distribution system for the Nike sites to be constructed near Eielson AFB; ENG-95-507-57-31. This invitation number will be redesigned and readvertised sometime in April. SP 3-8. Previous report 3-1

WATER LINE EXTENSION— Fairbanks, Alaska
(Estimated cost $100,000)

Project delayed until 1959 by City Council, City Hall, Fairbanks, for extension of city water lines to south Fairbanks. Plans and specifications by R. W. Beck & Associates, consulting engineers, Tower Bldg., Seattle. It has been announced by Alaska Public Works, Box 1181, Juneau, that funds will not be available for the work this summer as previously planned. SP 3-9

ELECTRICAL DISTRIBUTION SYSTEM— Fort Richardson, Alaska

Project on which bids were to have been opened 2 p. m., March 26, has been cancelled by Corps of Engineers, Alaska District, in the Seattle office, 4735 E. Marginal Way, Seattle, for construction of an electrical distribution system, consisting of a 7,200 volt primary overhead line, from the Fort Richardson heat and powerplant along Ski-Bowl road to site Summit, a distance of about 7 mi.; ENG-95-507-57-61. This invitation number will be redesigned and readvertised sometime in April. SP 3-8. Previous report 2-14

●RUNWAY EXTENSION, ACCESS ROAD, LIGHTING SYSTEM— Galena Airport, Alaska

Bid opening extended from March 12 to 2 p. m., March 22, by Corps of Engineers, Alaska district, in the Seattle branch, 4735 E. Marignal Way, Seattle, for construction of runway extension, access road and high intensity runway and approach lighting at Galena Airport ;ENG-95-507-57-39. SP 3-12. Previous report 3-8

HYDROELECTRIC POWER PROJECT— Juneau, Alaska
(Estimated cost $400,000,000)

The Aluminum Co. of America, Leon E. Hickman, vice president and general counsel, 1411 4th Avenue Bldg., Seattle, has abandoned all plans for a hydroelectric power development in southeastern Alaska which would have required the turning of the headwaters of the Yukon. The proposed project would have delivered 1,000,000 kilowatts in electrical power from one of the world's natural resources and was cancelled because Canada refused to consider any diversion of the Yukon headwaters. SC 3-8

★POWER, WATER FACILITIES— Ketchikan, Alaska

Award to Scheumann & Johnson, 1001 Lloyd Bldg., Seattle, $815,915, by Ketchikan Public Utilities, Elmer B. Titus, manager, Ketchikan, for construction of three rockfill dams, concrete spillway, diversion structure, intake structure, penstock and installation of owner-furnished equipment and other related work of the Ketchikan power system. Work will be located at the Ketchikan powerhouse, Granite Basin and at Ketchikan and Fawn lakes. Plans and specifications by R. W. Beck & Associates, consulting engineers, 1505 Tower Bldg., Seattle. SP 3-8. Previous report 2-19

▲PAINTING STEEL TOWERS— Ketchikan, Alaska

Bids received in the office of the contracting office, Alaska Communications System, 4735 E. Marginal Way, Seattle, for painting two 300' steel towers at Ketchikan; DA 45-041-sc-57-19. Bids opened March 7. LOW BIDS: Albright Paint Co., Anchorage, $5,994; Warren Painting Co., Box 1124, Anchorage, $9,872; American Service, Inc., Box 877 Spenard, $10,750. SP 3-12. Previous report 2-7

Bureau of Reclamation Lists 46 Major Projects . . .

. . . Scheduled for Bid Call Within Next Three Months

Forty-six major construction projects will be among bid invitations issued by the Bureau of Reclamation during March, April and May. Community housing and utility structures rate high among the proposed bid calls. The largest is the government community at Flaming Gorge, to house about 1,000 persons in connection with the upper Colorado River Storage Project north of Vernal, Utah. Listed below are some of the projects scheduled for March bid call.

BID CALLS EXPECTED IN MARCH

CANALS, DIVERSION DAM, Howard Prairie Delivery and Feeder Canals, Soda Creek Diversion Dam (3-2)—Rogue River Basin Project, Ore. Near Ashland, Ore. Construct about 10.3 mi. open canal including 2.3 mi. rectangular reinforced concrete flume section, 7.5 mi. unreinforced concrete lined canal, 0.5 mi. of 48" precast concrete pipe siphon; a small rockfill type diversion dam with sluiceway and canal headworks, about 1.65 mi. unreinforced concrete lined canal.

Quantities: 173,000 c.y. excavation for canal; 23,400 c.y. compact embankments; 11,500 c.y. excavation for structures; 420 c.y. concrete in structures; 5,860 c.y. concrete in canal lining; 2,280 c.y. concrete in rectangular flume; 2,763', 48" precast concrete pipe, noncylinder, steel cylinder or modified prestressed. Completion time 690 days. Bids will be called by chief engineer, Denver.

WASTEWAY WB5 (3-4)—Columbia Basin Project, Wash. Fifteen mi. west of Mesa, Wash. Construct 165 cfs to 29 cfs capacity wasteway channel about nine mi. long, including road crossings, drops, dikes, small storage reservoir, terminal chute into Columbia River.

Quantities: 300,000 c.y. wasteway excavation; 39,000 c.y. structure excavation; 4,300 c.y. compact embankment; 440 mi. c.y. overhaul; 1,530 c.y. concrete in structures; 300', 24" to 54" concrete pressure pipe. Completion time 450 days.

Bids to be called by chief engineer, Denver.

CANAL, Main Canal East (3-5)—Michaud Flats Project, Idaho. Near American Falls, Idaho. Earthwork, structures for about 10 mi. unlined canal and wasteway channel.

Quantities: 465,000 c.y. canal excavation; 38,000 mi. c.y. overhaul; 190,000 c.y. compact embankments; 6,000 c.y. structure excavation; 12,000 c.y. compacted earth lining; 450 c.y. concrete in structures; 10,500', 15" to 60" precast concrete pipe. Completion time 330 days.

Bids will be called by chief engineer in Denver.

PIPE LINES, Davis Aqueduct Trunk Lines (3-8) — Weber Basin Project, Utah. Near Salt Lake City, Utah. Construct about four mi. precast concrete pipeline and concrete lined equalizing reservoir.

GOVERNMENT COMMUNITY, Flaming Gorge (3-24) — Colorado Storage Project, Utah. North of Vernal, Utah. Construct about 90 residences and facilities including streets, sewage collection system, water distribution system for 1,000 person community. Completion time 240 days.

HOUSING, Blocks 46, 77, 79 and Burke Watermaster Headquarters (3-25)—Columbia Basin Project, Wash. Near Quincy, Burke, Moses Lake, Wash. Construct two two-bedroom frame residences with attached garages and full basements complete with water and sewerage facilities in Blocks 46 and 79; construct office building, storehouse, general purpose shop, equipment shelter and one two-bedroom frame residence with attached garage and full basement for additions to Burke Watermaster Headquarters.

HOUSING, Wanship Dam (3-26)—Weber Basin Project, Utah. About 38 mi. east of Salt Lake City, Utah. Construction two six-room, brick veneer, residences about 1,175 sq. ft. each with full basements and double garage. Completion time 210 days.

WAREHOUSES, Flaming Gorge (3-30)—Colorado River Storage Project, Utah. North of Vernal, Utah. Furnish, erect a one-story steel building about 70'x200' with structural steel rigid frame bents. Install one 25-ton overhead traveling crane. Involves 320,000 lb. structural steel.

CAMP FACILITIES, Mason Addition (3-31—Columbia Basin Project, Wash. Coulee Dam, Wash. Construct water and sewer service lines to about 145 residences.

LIGHTING, Coulee Dam (3-36)—Columbia Basin Project, Wash. Coulee Dam, Wash. Install street lights on South Marine Way involving 2,100' of partly rock excavation and 4,400' electric cable, direct burial. Completion time 30 days.

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 ALTERATIONS, PLAYSHED
BIDS CLOSE 8 P. M., MARCH 20
Centralia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 8:00 p.m., March 20, 1957, at the office of the Superintendent of Schools, Centralia School District No. 401, Centralia, Lewis County, Washington, for the general contract, including architectural, mechanical and electrical trads, for construction of a play shed and alterations to Galvin Elementary School.

Plans, specifications and contract documents may be obtained by bidders at the office of William Arild Johnson & Associates, 3506 Broadway Avenue, Everett, Washington.

Each prime contractor will be allowed one set of drawings and specifications upon deposits as follows: Complete plans and specifications, $20.00.

Planholders who do not enter a bona fide bid and who do not return, unmarked and unmutiliated, plans and specifications prior to bid opening, will forfeit their deposits. Additional sets of drawings and specifications may be secured at the cost of printing. Such sets remain the property of the Architect and shall be returned.

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, plus all alternates.

School board directors reserve the right to waive any informalities or irregularities in any bid or in the bidding, and may reject any or all bids.

No bidder may withdraw his bid after the hour set for opening thereof, or before award of the contract unless said award is delayed for a period exceeding thirty (30) days.

CENTRALIA SCHOOL DISTRICT No. 401
Eva J. Cobb
Secretary of the Board

5727—2-26; 3-5, 12

STEEL SUPERSTRUCTURE OF BRIDGE
BIDS CLOSE 10 A. M., MARCH 26
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Director of Highways of the State of Washington at the Transportation Building, Olympia, Washington, until 10:00 A. M., Tuesday, March 26, 1957, for the construction of the steel superstructure of the Port Washington Narrows Bridge across the Port Washington Narrows on Secondary State Highway No. 21-B in the City of Bremerton, Kitsap County, Washington, and will then and there be opened and publicly read. Bids received after the time fixed above for opening will not be considered.

This improvement consists of the following elements:

1. Constructing 609.5 linear feet of steel plate girder spans and miscellaneous expansion dams and bearings.
2. The principal approximate quantities involved are:
   Structural Steel in Place ..... Lump Sum
   (1,147,000 Pounds, Carbon Steel)
   (916,000 Pounds, Low Allow Steel)

The foregoing quantities are approximate only and the State does not, expressly or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of the work or to omit portions of the work, as may be deemed necessary or expedient by the Engineer.

Submission of a bid will be acceptable in no other manner than on the proposal form that will be furnished for that purpose.

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.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5729—2-23; 3-2, 9, 16

GATES, EQUIPMENT
BIDS CLOSE APRIL 11
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4866) will be received at Denver, Colorado, until April 11, 1957, for furnishing three 84-inch ring-follower gates, each with intergral hydraulic hoist; and one set of gate handling equipment for outlet works and auxiliary outlet works at Trinity Dam, Central Valley Project, California. Delivery is desired within 420 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colorado, W. A. Dexheimer, Commissioner.

5732—3-9

SCHOOL ADDITIONS, ALTERATIONS
BIDS CLOSE 8 P. M., MARCH 20
Centralia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 8:00 p.m., March 20, 1957, at the office of the Superintendent of Schools, Centralia, Lewis County, Washington, for Architectural, Mechanical and Electrical Trades contracts for construction of additions and alterations to the Edison Elementary School for Centralia School District No. 401, Centralia, Lewis County, Washington.

Contractors must submit a separate bid on the Architectural, Mechanical and Electrical Trades Contracts; or they may also submit a combination bid to include Architectural, Mechanical and Electrical Trades under a general contract.

Plans, specifications and contract documents may be obtained by bidders at the office of William Arild Johnson & Associates, 3506 Broadway Avenue, Everett, Washington.

Each prime contractor will be allowed one set of drawings and specifications upon deposit as follows: Architectural, $15.00; Mechanical, $10.00 and Electrical $10.00.

Planholders who do not enter a bona fide bid and who do not return, unmarked and unmutilated plans and specifications prior to bid opening, if no bid is to be submitted, will forfeit their deposits. Additional sets of drawings and specifications may be secured at the cost of printing. Such sets remain the property of the Architect and shall be returned.

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, plus all alternates. School board directors reserve the right to waive any informalities or irregularities in any bid or in the bidding, and may reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening thereof or before awards of the contract, unless said award is delayed for a period exceeding thirty (30) days.

CENTRALIA SCHOOL DISTRICT No. 401
Eva J. Cobb,
Secretary of the Board

5733—2-26; 3-5, 12

SCHOOL AND SHOP BUILDING
BIDS CLOSE 8 P. M., MARCH 13
Valleyford, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Directors of Freeman School District No.

358 of Spokane County, Washington, at the office of the Superintendent of Lindberg School at Valleyford, Washington, up to 8:00 p.m., March 15, 1957, for the construction of a one-story masonry and wood frame building and a masonry, metal frame and sheet metal shop building. All bids will then and there be opened and publicly read aloud. Separate sealed bids will be received for the: General Construction; Mechanical work; and Electrical work.

Each bid shall be in accordance with the plans, specifications and other contract documents now on file in the office of the Architect, Kenneth D. Storment, 709 Hutton Bldg., Spokane, Washington; where copies may be obtained upon deposit of $25.00 per set of General Construction and $15.00 per set of Mechanical or Electrical work. The deposit for one set of plans will be refunded to actual bidders upon return of the plans and specifications, unmutiliated and without marks or annotations, within ten days of the date set for bid opening; and deposits of non-bidders will be refunded only if the plans and specifications are returned, on the condition noted above, not later than one week before the bid opening.

For the convenience of bidders, plans will be on file at the offices of the: A.G.C. Builders Chapter, 1207 N. Washington, Spokane; Construction Council, 933 W. 3rd., Spokane; Plan Bureau, 2413 Western Ave., Seattle; Builders Exchange, 317 Builders Exchange Bldg., Portland.

Each bid must be made out in the form of the appropriate Bid Form bound in the specifications, and must be accompanied by a certified check, Cashier's Check, or a satisfactory bid bond in favor of Freeman School District No. 358 of Spokane County, Washington, executed by the bidder and a surety company licensed to do business in the State of Washington, in an amount equal to five percent of the bid.

Each proposal shall be sealed and addressed to the Board of Directors, Freeman School District No. 358, Spokane County, Washington, Freeman, Washington; and the envelope shall bear the title of the project, the words "Sealed Bid", and the appropriate designation of General Construction, Mechanical, or Electrical.

The School District reserves the right to reject any or all bids, to waive informalities, and to accept any bids or combination of bids and/or alternates which they deem to be in the best interest of the District.

No bidder may withdraw his bid after the hour set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty days.

Date Feb. 21, 1957

FREEMAN SCHOOL DISTRICT No. 358
RAY MEENACH, Clerk
Rt. No. 3, Spokane, Wash.

5734—2-27; 3-6, 13

ICE PREVENTATIVE HEATING SYSTEM
BIDS CLOSE APRIL 17
Kennewick, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4817) will be received at Kennewick, Washington, until April 17, 1957, for furnishing labor and materials for ice preventative heating system at Roza Diversion Dam and Headworks, Yakima Project, Washington. Location near Yakima, Washington. Principal items are furnishing and installing radial gate heating system; furnishing and installing roller gate heating system; furnishing and installing electrical systems; modification of East Selah Substation; and other work. Completion time 150 days. For particulars, address Bureau of Reclamation, P.O. Box 937, Boise, Idaho; P.O. Box 516, Kennewick, Washington; or Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.

5735—3-9

ELEMENTARY SCHOOL
BIDS CLOSE 8 P.M., P.S.T., MARCH 28
Wiley City, Washington
NOTICE TO CONTRACTORS

Seaed bids will be received by The Board of Directors of the West Valley School District No. 208, Yakima County, Washington, in the Cafeteria at the West Valley High School, until 8 P.M., P.S.T., March 28, 1957, for the construction of a six classroom addition to the Ahtanum Valley Elementary School located at Wiley City, Washington.

The building is 56 feet by 109 feet, single story, with a 10 foot by 16 foot furnace room—to be of brick construction with glulam beams and tim-deck roof covered with gravel coated composition roofing. To contain six individual classroom toilets. Finish floors to be asphalt or vinylt tile on concrete slab.

The bid is to be a combined bid including all sub-contracts such as heating, electrical, plumbing, etc.

Electrical to be standard classroom lighting fed through service of existing building.

Heating to be perimeter hot air with oil fired furnace.

Plumbing to be individual classroom toilets.

The basic bid provides for the building structure with finishes and built-ins provided in a series of additional bids.

Plans and specifications may be obtained at the office of the Architects, Don Gochnour and Ed Marble, 612 Miller Building, upon deposit of $25.00 per set. Plans and specifications will be on file at the plan centers in Seattle, Tacoma, Spokane, Yakima, Tri Cities and Portland, Oregon.

A combined bid is requested embracing general construction, heating, electrical, plumbing, etc. Each bid is to be accompanied by cash, cashiers check or bid bond in the amount of 5% of the amount of the basic bid, exclusive of alternate bids.

A contract will be awarded on the above mentioned project upon approval by the Board of Directors of the local school district and upon final approval by the office of the Superintendent of Public Instruction, Olympia, Washington.

These two bodies reserve the right to accept or reject any or all bids and to waive informalities.

The Board of Directors of West Valley School District No. 208 will open the bids in the office of the Superintendent at West Valley High School at 8 p.m., P.S.T., March 28, 1957, at which time the bid will be read in public.

Harold C. Griffith,
Superintendent,
School District No. 208,
Yakima County, Washington

5736—3-5, 6, 7

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MARCH 26
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, March 26, 1957, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvement 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.

Prequalificatons 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 and Grading on 5.556 miles of Primary State Highway No. 2 in Spokane County, PINES ROAD TO GREENACRES, FAP No. IN-002-6(18) Unit 2, involving about 348,870 cubic yards of Common Excavation, 16,240 cubic yards of Solid Rock Excavation, 41,960 cubic yards of Excavation of Unsatisfactory Material, 152,080 units of Overhaul, 73 cubic yards of Concrete, 539 pounds of Steel Reinforcing Bars, 4,376 linear feet of Concrete Pipe, 80 linear feet of Corrugated Metal Pipe, 6,237 linear feet of Asbestos Cement Pipe, 3,324 linear feet of Steel Pipe, 742 linear feet of Galvanized Iron Pipe, 53,855 linear feet of Chain Link Fence and other items.

2. Draining, Grading, Surfacing, Paving with Cement Concrete and Installing an Illumination System on 0.619 mile of Primary State Highway No. 1 in King County, ALASKAN WAY, HOLGATE STREET TO HANFORD STREET, FAP No. U-001-3(13), involving about 100 cubic yards of common Excavation, 33,500 cubic yards of Sand Borrow, 3,340 tons of Crushed Stone Surfacing, 660 tons of Asphaltic Concrete, 26,800 square yards of Cement Concrete Pavement, 11,920 linear feet of Integral Cement Concrete Curb, 779 cubic yards of Concrete, 24,760 pounds of Steel Reinforcing Bars, 4,785 linear feet of Concrete Pipe, 2,650 linear feet of Beam Guard Rail, a lump sum bid for Installation of an Illumination System and other items.

3. Constructing a Reinforced Concrete Slab Bridge on 0.026 mile of Primary State Highway No. 1 in Whatcom County, IOWA STREET OVERCROSSING, FAP No. I-001-5(16), involving about 1,000 cubic yards of Concrete, 227,000 pounds of Steel Reinforcing Bars, 9,600 linear feet of Concrete Piling, 136 linear feet of Steel Pipe and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.

4. Clearing, Draining and Grading on 2.369 miles of a Kitsap County Road, MULLENIX ROAD EXTENSION, FAS No. S-1283(1), involving about 22 acres of Clearing, 103,940 cubic yards of Unclassified Excavation, 2,103 linear feet of Concrete Pipe and other items.

5. Draining, Grading and Surfacing on 3.132 miles of a Stevens County Road, LOON LAKE-DEER LAKE ROAD, FAS No. S-1237(1), involving about 85,700 cubic yards of Unclassified Excavation, 12,950 cubic yards of Selected Roadway Borrow, 1,332 linear feet of Corrugated Metal Pipe and other items.

6. Surfacing with Light Bituminous Surface Treatment on 3.674 miles of a Columbia County Road, THORN HOLLOW ROAD, FAS No. S-1134(1), involving about 12,870 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 118 tons of Asphalt Cement and other items.

7. Surfacing with Crushed Stone and Stockpiling Crushed Stone Surfacing, Maintenance Rock, Crushed Cover Stone and Mineral Aggregates on 2.636 miles of Secondary State Highway No. 1-S in Cowlitz County, YALE VICINITY, a State Project, involving about 42,045 tons of Crushed Material and other items.

8. Stockpiling Ballast, Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on SSH No. 1-R in Cowlitz County, CASTLE ROCK EAST, a State Project, involving about 23,950 tons of Crushed Material and other items.

9. Clearing, Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 0.248 mile of Primary State Highway No. 8 in Clark County, FISHER ROAD TO CAMAS-SACAJAWEA ROAD EXTENSION, a State Project, involving about 4,680 cubic yards of Common Excavation, 1,360 tons of Crushed Stone Surfacing and ballast, 8 tons of Asphalt Cement, 80 cubic yards of Crushed Stone, 123 linear feet of Concrete Pipe and other items.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5739—3-9, 16

EARTHWORK, STRUCTURES
BIDS CLOSE APRIL 18
Rupert, Idaho

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4872) will be received at Rupert, Idaho, until April 18, 1957, for furnishing labor and materials for earthwork and structures for Main Canal East, Michaud Flats Project, Idaho. Location near American Falls, Idaho. Principal items are 487,000 cu. yds. excavation; 190,000 cu. yds. compacting embankments; furnishing and laying 10,480 lin. ft. reinforced concrete culvert and pressure pipe; and other work. Completion time 330 days. For particulars, address Bureau of Reclamation, Rupert, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5741—3-16

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A. M., MARCH 28
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 9:30 A. M., on March 28, 1957. The proposals will be publicly opened and read immediately thereafter.

1. **F 2(14)**—Grade, gravel surfacing, bituminous surface treatment, and drain 10.261 miles on the Baker-Wibaux Road in Fallon County involving about 620,892 cu. yds. excavation; 68,878 mi. yds. overhaul; 169,607 tons crushed gravel; 41,537 cu. yds. sand base; 12,693 M gals. watering; 2,140 units rolling; 62,173 gals. liquid asphalt; 62,173 gals. emulsified asphalt; 1,850 lin. ft. reinforced concrete pipe; 876 lin. ft. relay pipe culverts; 74 cu. yds. gravel backfill and other items. Project to be completed in 300 calendar days.
2. **F 242(14)**—Construction of a 23.25' steel and concrete bridge over Basin Creek in the town of Basin on the Butte-Boulder Road in Jefferson County involving about 13,206 lbs. reinforcing steel; 97.6 cu. yds. class "A" concrete; 46.4 cu. yds. class "AD" concrete; 47.5 lin. ft. steel bridge rail; 450 cu. yds. structure excavation and all L. Sum remove existing structure and maintain traffic. Project to be completed by September 30, 1957.
3. **F 267(7)**—Grade, gravel surfacing, bituminous surface treatment and drain 4.104 miles on the Ovando-Rogers Pass Road near Cadotte Creek in Lewis and Clark County involving about 110,081 cu. yds. excavation; 5,302 mi. yds. overhaul; 41,693 tons crushed gravel; 47,287 gals. liquid asphalt; 2,483 M gals. watering; 537 units rolling; 100 cu. yds. gravel backfill; 278 lin. ft. reinforced concrete pipe culvert and other items. Project to be completed in 100 calendar days.
4. **F 387(7)**—Construction of a dyke, riprap and a 19' treated timber pile bridge on 0.034 mile on the Dillon-Twin Bridges Road in Madison County involving about 8,653 cu. yds. excavation; 174 cu. yds. riprap; 130 M gal. watering; 16 units rolling; 52 lin. ft. relay pipe culverts; 14.266 MBM treated timber; 0.374 MBM untreated timber; 530 lin. ft. treated timber piles and all L. Sum maintain traffic. Project to be completed by August 31, 1957.
5. **F 391(4)**—Grade, gravel surfacing, bituminous surface treatment and drain 10.615 miles on the Circle-Sidney Road in Richland and Dawson Counties involving about 853,591 cu. yds. excavation; 3,279 cu. yds. gravel backfill; 62,967 mi. yds. overhaul; 201,106 tons crushed gravel; 63,325 gals. liquid asphalt; 63,325 gals. emulsified asphalt; 16,735 M gal. watering; 2,818 units rolling; 2,964 lin. ft. corrugated metal pipe culvert; 1,464 lin. ft. structural plate pipe culvert and other items. Project to be completed in 400 calendar days.
6. **S 36(6)**—Construction of 1,512.5 lin. ft. of steel guard rail on the Drummond-Helmville Road in Granite County involving about 1,512.5 lin. ft. steel guard rail. Project to be completed in 60 calendar days.
7. **S 154(2) and S 288(3) Unit 1**—Grade, gravel surfacing, road mix oiling and drain 0.759 mile on the Columbus Southeast and Red Lodge-Columbus Road in Stillwater County involving about 56,400 cu. yds. excavation; 2,342 mi. yds. overhaul; 11,578 tons crushed gravel; 17,014 gals. liquid asphalt; 4,204 gals. emulsified asphalt; 0.650 mile processing; 834 sq. yds. processing; 1,053 M gal. watering; 181 units rolling; 214 lin. ft. corrugated metal pipe culvert; 100 cu. yds. gravel backfill; 630 cu. yds. random riprap and other items. Project to be completed in 120 calendar days.
8. **S 183(2)**—Grade, gravel surfacing and drain 5.259 miles on the Raynesford-South Road in Cascade and Judith Basin Counties involving about 183,257 cu. yds. excavation; 214 cu. yds. gravel backfill; 5,535 mi. yds. overhaul; 31,162 tons crushed gravel; 3,343 M gals. watering; 184 units rolling; 654 cu. yds. binder; 1,308 mi. yds. overhaul on binder; 1,796 lin. ft. reinforced concrete pipe culvert; 74 lin. ft. concrete sewer pipe; 180 lin. ft. structural plate stockpass and other items. Project to be completed in 200 calendar days.
9. **S 188(2)**—Grade, gravel surfacing and drain 8.857 mies on the Galata-North Road in Toole County involving about 199,548 cu. yds. excavation; 4,312 mi. yds. overhaul; 38,523 tons crushed gravel; 1,205 cu. yds. binder; 2,410 mi. yds. overhaul on binder; 3,744 M gal. watering; 151 units rolling; 2,226 lin. ft. corrugated metal pipe culvert and other items. Project to be completed in 200 calendar days.
10. **S 340(3)**—Grade, gravel surface and construction of two 38.0 foot treated timber bridges and drain 7.225 miles on the Cleveland-Chinook Road in Blaine County involving about 239,824 cu. yds. excavation; 79 cu. yds. gravel backfill; 6,139 mi. yds. overhaul; 47,662 tons crushed gravel; 4,520 M gals. watering; 283 units rolling; 1,049 cu. yds. binder; 2,098 mi. yds. overhaul on binder; 2,771 lin. ft. corrugated metal pipe culvert; 87 lin. ft. structural plate pipe culvert; 36,180 MBM treated timber; 1,214 MBM untreated timber; 1,010 lin. ft. treated timber piles; 1,292 lbs. structural steel and other items. Project to be completed in 180 calendar days.

The above listed quantities are approximate ony.

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 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 office of the Bureau of Public Roads at Missoula.

HARRY L. BURNS, Chairman
SCOTT P. HART, State Highway Engineer

5742—3-16, 23

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A. M., APRIL 2
Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, Apil 2, 1957, 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 amount of such bid proposal. Should successful bidder fail to enter into such tract and furnish satisfactory perform bond within the time stated in the sp cations, the bid proposal deposit shal forfeited to the State of Washington.

Prequalification of bidders is requ Maps, plans and specifications may be tained from this office upon written req therefor and payment to the Director Highways by cash, certified check, cash check or money order in the sum of dollars ($2.00) for each copy of such m plans and specifications as a rental for use of them. Plans will be forwarded First Class Mail.

Informational copies of maps, plans specifications are on file in the office the County Engineer of the County in wh the work is situated, the Chapter office the General Contractors of America Seattle, Spokane, Tacoma and Portland the offices of the District Engineers of Department of Highways where they m be inspected.

Federal funds have been allocated items Nos. 1 and 2.

The improvements for which bids will received follow:

1. Clearing, Draining, Grading and C structing Two Reinforced Concrete Slab Bridges on 1.708 miles of Prim State Highway No. 1 in Thurston Cou LACEY ROAD TO MARTIN WAY, F No. I-001-2(43), involving about 56 ac of Clearing, 421,420 cubic yards of Co mon Excavation, 75,980 units of Overha 4,220 cubic yards of Excavation of U suitable Material, 16,050 tons of Selec Roadway Borrow, 3,010 tons of Crush Stone Surfacing, 26 tons of Asphalt (ment, 240 cubic yards of Crushed Co Stone and Mineral Aggregates, 680 tons Asphaltic Concrete, 6,085 linear feet Concrete Pipe, 510 linear feet of Cor gated Metal Pipe, 234 linear feet of Be Guard Rail, 580 linear feet of Chain Li Fence, 1,075 linear feet of Asbestos C ment Pipe, 490 linear feet of Galvani Iron Pipe, 1,407 cubic yards of Concre 269,000 pounds of Steel Reinforcing Ba and other items. Minimum Wage Rat for this project have been predetermin by law and are set forth in the bid pr posal.
2. Clearing, Draining, Grading, Surfaci and Paving with Type I-1 Asphaltic Co crete on 0.922 mile of Secondary Sta Highway No. 15-B in Snohomish Count HASKELL SLOUGH AND SKYKOMIS RIVER BRIDGE APPROACHES, FAS N S-0225(5), involving about 52,550 cub yards of Common Excavation and Bo row, 9,475 tons of Selected Roadway Bo row, 4,440 tons of Crushed Stone Surfa ing, 40 tons of Asphalt Cement, 350 cub yards of Crushed Cover Stone and Mi eral Aggregate, 2,430 tons of Asphalti Concrete, 850 linear feet of Asphalti Shoulder Curb, 285 linear feet of Cemen Concrete Curb and Cement Concrete Cur and Gutter, 92 cubic yards of Concret 20,800 pounds of Steel Reinforcing Ban 174 linear feet of Concrete Pipe, 362 linea feet of Corrugated Metal Pipe, 1,233 linea feet of Beam Guard Rail, 65 Guide Post 190 square yards of Cement Concret Sidewalk and Driveway, 16,000 tons o Heavy Loose Riprap and other items.
3. Stockpiling Crushed Stone Surfacing Maintenance Rock and Mineral Aggre gates on State Highways Nos. 8 and 8-C in Skamania County, STEVENSON VI CINITY, involving about 29,100 tons o Crushed Materials.
4. Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 28.790 miles of Franklin County Roads BLOCK 18 FEEEDER ROADS, a State Project, involving about 33,540 cubic yards of Common Excavation, 20.9 miles of Grading, 95,700 tons of Crushed Stone Surfacing and Crushed Cover Stone, 20 tons of Asphalt Cement, 2,012 linear feet of Corrugated Metal Pipe, 2,784 linear feet of Concrete Pipe, 55 cubic yards of Riprap and other items.

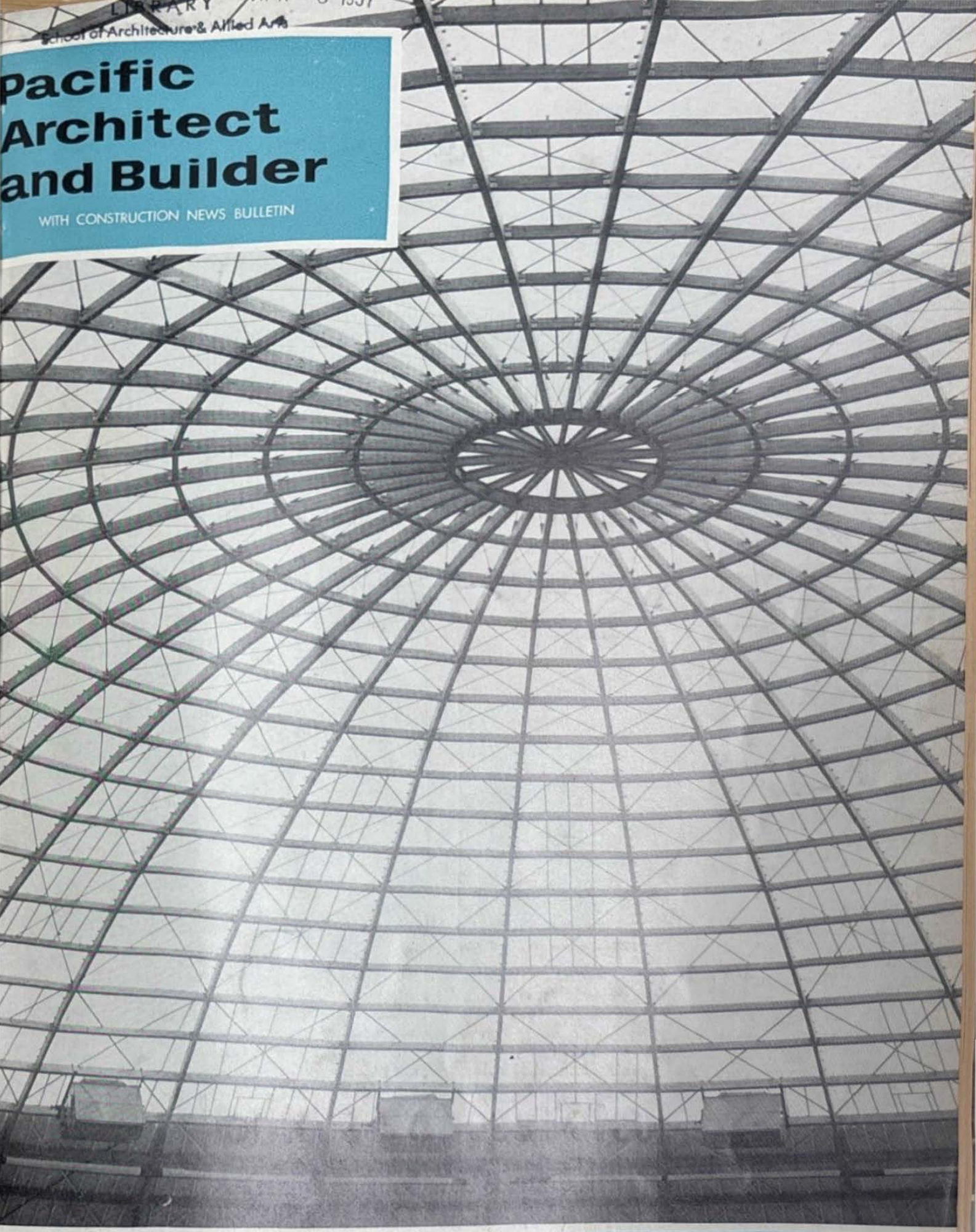
E. C. HUNTLEY, Chairman.
W. A. BUGGE, Director of Highways.

5743—3-16, 23

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WITH CONSTRUCTION NEWS BULLETIN



Weekend house for an architect

Roundup of four design competitions

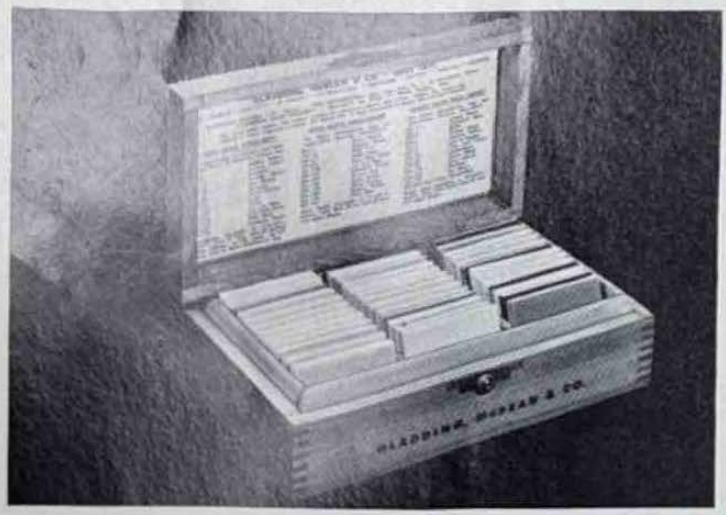
APRIL 1957

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Pacific Architect and Builder

VOLUME 63, NUMBER 3 APRIL 1957

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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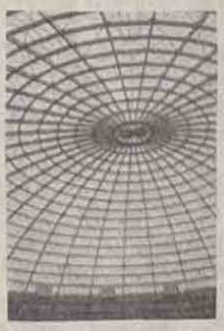
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THE COVER

Heath and Physical Education Center, Montana State College, Bozeman (p. 22). Willson & Berg Associates, architects; MSC photo.



Pioneer

Sets exciting trends for modern living!

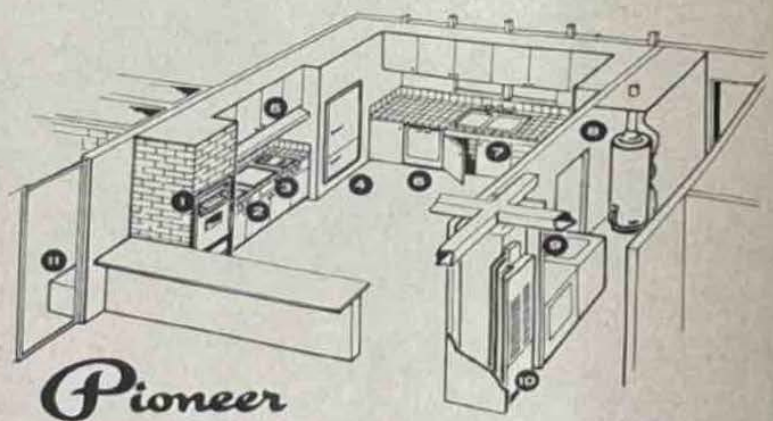
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The Building Month: Trends/Views

CALIFORNIA EARTHQUAKE EXPERTS agreed that the March shakeup in San Francisco proved that "a properly designed and properly constructed building will survive almost anywhere, although there is no such thing as a completely earthquake-proof structure." (For more details see p. 41.)

FIRST-QUARTER HOUSING STARTS FOR THIS YEAR totaled 213,000 nationally, less than any other corresponding period since 1949. (PA&B's building permit tabulation is on p. 13.) The March total, as compiled by the Labor Department, of 83,000 units was 16% under the same month last year and also the lowest March total since 1949. Builders have called for immediate action to ease mortgage credit with NAHB president George S. Goodyear urging Congress and the administration to "stop gambling with the welfare of the American people."

FIRST WINNER OF THE $25,000 R. S. REYNOLDS MEMORIAL AWARD is an architectural firm in Madrid, Spain, Cesar Ortiz-Echague, Manuel Barbero Rebolledo y Rafael de la Joya, for the new visitors and factory lounge center of the S.E.A.T. automobile plant in Barcelona.

EXECUTIVE DIRECTOR OF THE PHILADELPHIA PLANNING COMMISSION, Edmund Bacon, appearing in Seattle on one of the finest programs ever held by the Washington State Chapter, AIA, underscored functional site development which ignores in the early planning stages the subjective qualities of individual building designs; the need for architects to be sympathetic with each other's work; and the desirability of preserving historic monuments, orienting contemporary urban development to them. The meeting was notable too for the presence of a half dozen city officials, and members of both the Seattle Planning Commission and the American Institute of Planners.

ADDRESSING THE AMERICAN SOCIETY OF PLANNING OFFICIALS in San Francisco last month, John T. Howard of MIT declared that a highway so designed and built that it produces land-development patterns which "worsen the livability and efficiency of a metropolitan area is a disservice to the community."

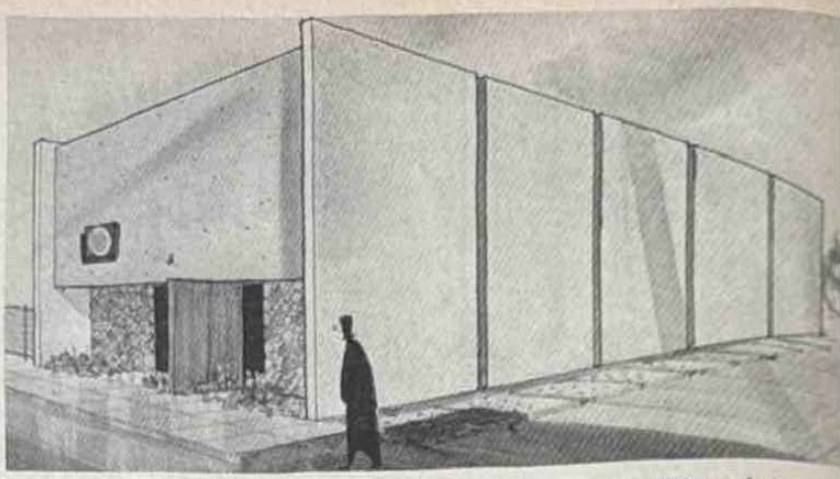
PLUGGING ANEW FOR HIS CLASSROOM CONSTRUCTION PROGRAM, President Eisenhower in a nationwide radio address before the National Education Association early this month said that the nation's schools are more important than Nike anti-aircraft batteries and "more powerful than the energy of the atom." Meanwhile, in Los Angeles, the school housing chief reported that the city's building program is several months ahead of schedule. And in Washington State proposed legislation which centered around standardized plans for school construction died in committee.

THE $126 MILLION BUILDING PROGRAM of the United States Air Academy appears to have bogged down in the eyes of the Board of Visitors, with its chairman, Representative Scrivner (R-Kan.) voicing "disappointment" on progress made thus far.

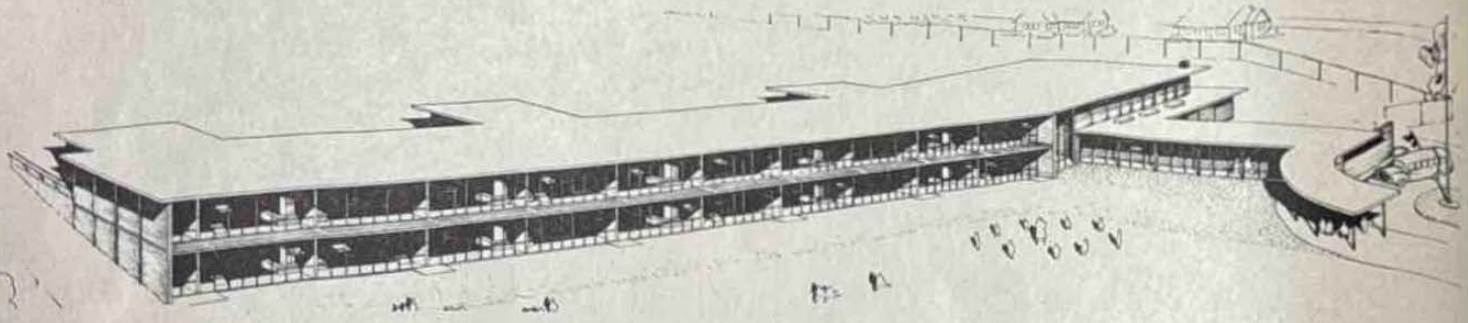
THE TOUR OF HOMES, annually sponsored by the Women's Architectural League in a number of communities, seems to be in season, and at least two groups have scheduled such events. The WAL of Oregon has set its tour in Portland for May 11, while the San Francisco group has tentatively planned its Marin County junket for May 23.

MAY CONFERENCES AND EXHIBITIONS: Western Air Conditioning, Heating, Ventilating and Refrigeration Exhibit and Conference, Shrine Exposition Hall, Los Angeles, May 4-8; 19th annual convention of the National Association of Architectural Metal Manufacturers, Fairmont Hotel, San Francisco, May 7-12; first clinic of the International Council of Shopping Centers, Palmer House, Chicago, May 13-14; Centennial Celebration of the American Institute of Architects, Shoreham and Sheraton-Park hotels, Washington, D.C., May 14-17.

PROJECT PREVIEW



HEALTH AND WELFARE OFFICE BUILDING of International Union of Operating Engineers, Local No. 12, in Los Angeles will be windowless for compete accurate control of light. Two-story structure of precast, prestressed steel and concrete members, using gunited exterior walls above floor level, will have full basement to provide storage area for electrical and mechanical equipment. Facade will be composed of Italian glass mosaic tiles on second floor, river-washed stone and plate glass at street level. Architects-engineers: Caldwell, Mason & Muntz.



TWO-STORY DESIGN of 20-classroom project (10 are being built initially under $223,000 bond issue) for Gilbert School District in Portland was dictated by desire to save level area of small sloping site for play. Access to both floors will be provided at ground level. Study areas with luminous plastic ceilings will be adjacent to corridors, activity areas next to floor-to-ceiling windows. Architect: Warren Weber, AIA.



ONE-STORY PLANT with balcony and partial basement for Crown Lutheran Church in Seattle will have glued-laminated arches, cedar siding and brick veneer exterior. To cost about $135,000, project will have 11,000 sq. ft. Architect: Oliver Olson.

GLASS MOSAIC SPANDRELS of varying shades of turquoise, terra cotta and beige and elevator tower sheathed with gray-blue tile will form colorful exterior of $1,250,000 office building in downtown Riverside, Calif., for developers Miller, Saucke & Associates. Completely air-conditioned, reinforced concrete structure will be served by covered parking area accommodating 110 autos below ground level. Architects: Victor Gruen & Associates.



not specified

about this issue

One of the most stimulating papers delivered at the national AIA convention in Los Angeles last spring as far as we're concerned, was part of a seminar devoted to preservation of historic buildings, presented in a room which could accommodate only a handful of listeners. For some unknown reason Paul Thiry's probing remarks about "Progress' Dilemma" went almost completely unnoticed in the architectural press. We decided to save his talk for the same issue in which we publish the weekend house he designed for his family of four (including two boys) east of the Cascades.

Mr. Thiry is also in the news this month, having won an AIA Award of Merit for his branch library in Seattle. In addition to photos of all West Coast winners—one Honor Award and five Awards of Merit—, we have rounded up those which won recognition in three other design competitions.

What is believed to be the world's largest clear span timber structure has been built, not in Texas, but in Bozeman, Mont., a striving community of some 15,000 citizens plus students at Montana State College where the fieldhouse is located. We regret to note that one of the architects on the project and one of the first to enroll at MSC, Fred F. Willson, passed away last summer.

p.r. in l.a.

In Los Angeles an architectural graduate of Southern California and his brother, who also attended the school although he received his engineering degree from Illinois, have embarked on a program which should reap public relations benefits not only for the firm—Albert C. Martin & Associates—but for the entire profession as well. Albert C. Martin Jr., FAIA, and J. Edward Martin have set up grants for advanced study and research for two fifth-year graduating students at SC.

Another phase of the program provides for extension of the firm's facilities, consultation with key staff personnel and access to reference and research data to aid students in the solution of their projects. It is this aspect that is perhaps the most important in the eyes of Dean Arthur B. Gallion. "This very well demonstrates a means for a closer relationship between architectural education and the practice of architecture and is a method for improving the general development of architecture through student participation with professionals."

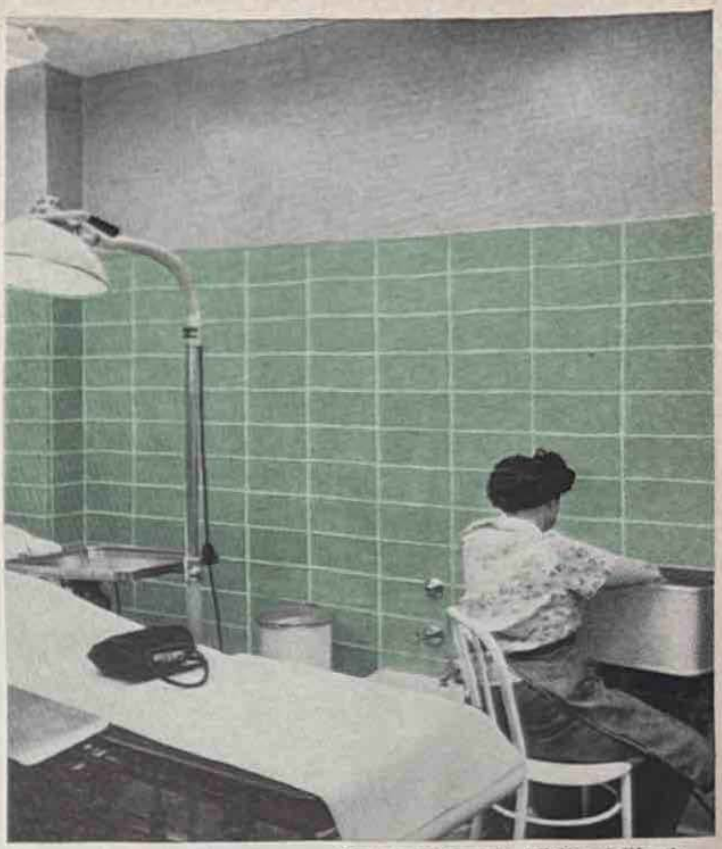
on the right track

In view of the plight of passenger rail travel as reported in the nation's press, we sat up and took notice the other day when Great Northern Railway in Seattle announced the opening of a new Edmonds suburban station. We began to wonder even more when we learned that the same line is now constructing a station in New Westminster, B.C. just a stone's throw from Vancouver.



Upon further investigation we found that Great Northern's optimism about its rail passenger travel has been expressed to the tune of a predicted 10% (at least) increase above last year. P. G. Holmes, general passenger traffic manager, who conferred in the Northwest recently with key passenger men from Vancouver, B.C., to Los Angeles, said that he was outlining a "fresh approach" to this chronic railroad problem.

R.E.K.



Ford Motor Company, Milpitas, California
Albert Kahn, Associated Architects & Engineers
Walls of Glazed Structural Tile

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 Western structural tile.

In these rooms which do not yield direct profit or production, building and maintenance costs came under extra close scrutiny. Western *Structural* Tile is 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.

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WESTERN STRUCTURAL TILE INSTITUTE

Design award winners (and trees) are bustin' out all over

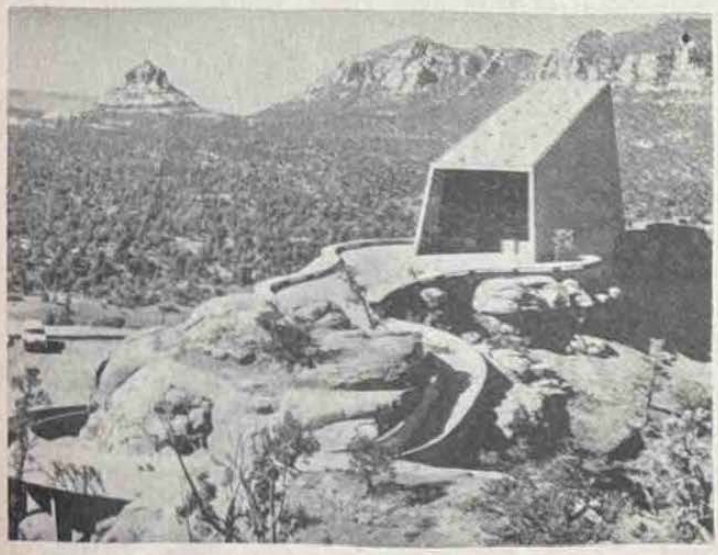
"I think that I shall never see
An award winner without a tree."

Springtime brings with it a bevy of design award competitions, including those sponsored by the American Institute of Architects, five northern California AIA chapters (across page), the Church Architectural Guild and Church Property Administration magazine (both on p. 12). Most significant perhaps is the California program, distinguished by its lay jury and public judgments.

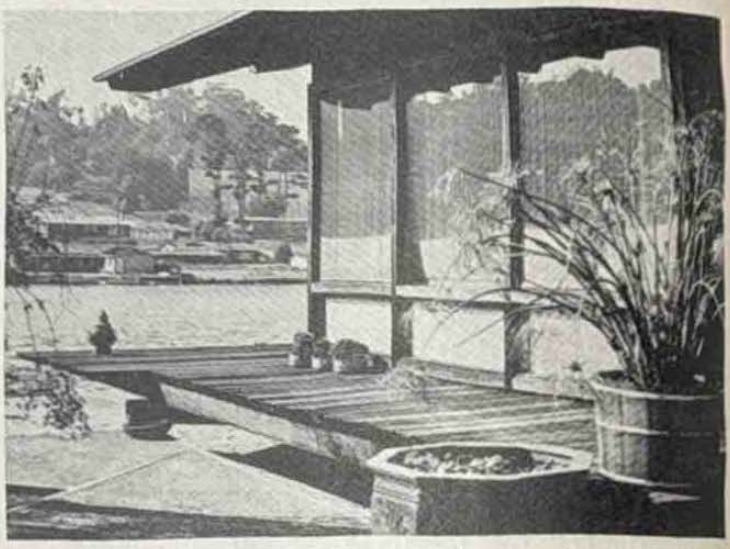
Continued on p. 45

SIX WEST COAST WINNERS IN NINTH ANNUAL AIA HONOR AWARDS COMPETITION

1



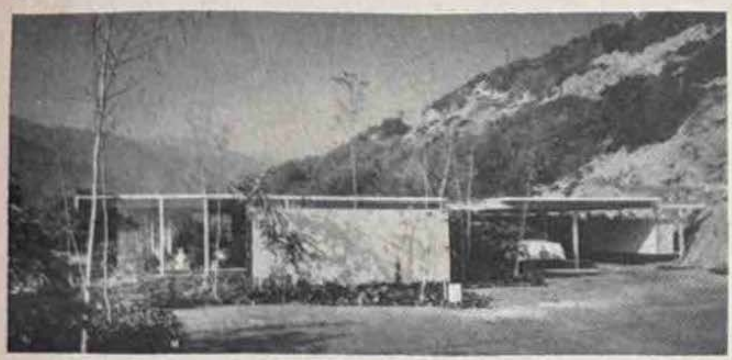
2



FIRST HONOR AWARD—1. Chapel of the Holy Cross, Sedona, Ariz.: Anshen & Allen, architects; Wm. C. Simpson Construction Co., general contractor.

AWARDS OF MERIT—2. Wells Residence, Belvedere, Calif.: Edward B. Page, architect; Sharp & Robinson, general contractors. 3. A. Quincy Jones Residence, Los Angeles: A. Quincy Jones & Frederick E. Emmons, architects; Morris Pynoos, general contractor. 4. Northwest Branch Public Library, Seattle: Paul Thiry, architect; Lewis Construction Co., general contractor. 5. Mark Thomas Inn Addition, Monterey, Calif.: John Carl Warnecke, architect; Haas & Haynie, general contractors. 6. Frederick E. Emmons Residence, Pacific Palisades, Calif.: A. Quincy Jones & Frederick E. Emmons, architects; Pat Hamilton, general contractor.

3



4



5



6







Dean Stone-Hugo Steccati photos

AWARD OF GREAT DISTINCTION: Boardwalk Shopping Center, Belvedere (above and left); John Lord King, architect; Sharp & Robinson, general contractors.

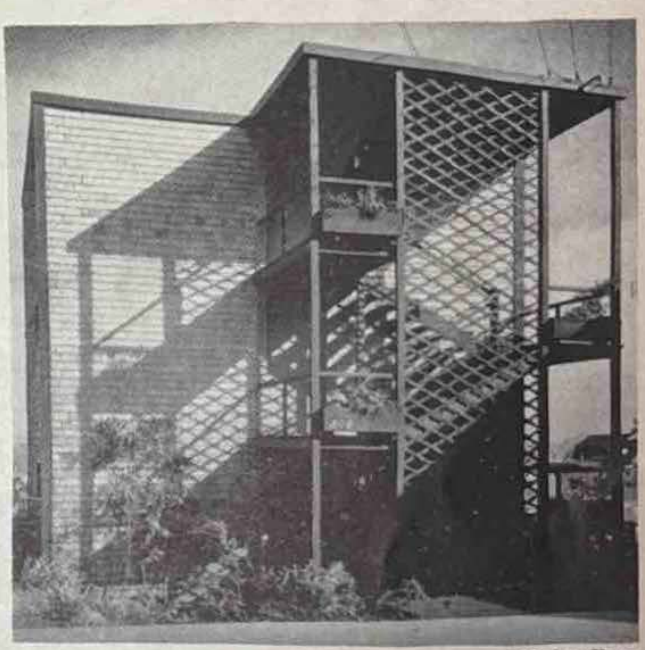
NORTHERN CALIFORNIA AIA HONOR AWARDS PROGRAM FEATURES LAY JURY

Twenty-two projects from a total of 160 submissions won citations in the most comprehensive design competition ever undertaken in northern California, with five chapters participating in the program. The sole architect on the jury, Dean Pietro Belluschi of the School of Architecture, Massachusetts Institute of Technology, was joined by Edgar Kaufman Jr., director of the Museum of Modern Art, New York; James M. Fitch, professor, School of Architecture, Columbia University; Harry Bertoia, architectural sculptor; and Dr. J. Robert Oppenheimer, director, Institute of Advances Studies, Princeton. The jurors in public judgment at the awards dinner commented upon the winning designs and summarized their reasons for the selections.

Top awards went to the buildings shown here and to the Chapel of the Holy Cross and a house in Belvedere (across pags), which also won national honors. Other winning projects and their designers:

AWARDS OF MERIT: Office building for Insurance Company of North America, San Jose, Wurster, Bernardi & Emmons; Fullerton mill for Kimberly-Clark Corp., Skidmore, Owings & Merrill; San Francisco apartments for Vera and Irene Brynner, Frank O. Merwin; Los Angeles apartments for L. H. Colby, Raphael Soriano; Surf-Rider Hotel, Honolulu, Gardner A. Dailey & Associates; Olympia Primary School, Daly City, Mario J. Ciampi; Frederic Burk School, San Francisco, John Lyon Reid & Partners; Office building for the Modesto Irrigation District, Mitchell Van Bourg & Associates; development house in Marin County, Herbert A. Crocker Co., Anshen & Allen; Mrs. Alexandra Curtis residence, Los Angeles, Raphael S. Soriano; Paul Bissinger residence, Kent Woodlands, Wurster, Bernardi & Emmons; Vernon De Mars residence, Berkeley, Vernon De Mars; Harry Reif residence, Los Angeles, Aaron G. Green; Miss Caroline Schrodes residence, Sausalito, Marquis & Stoller. **AWARD FOR SITE USE:** Mark Thomas Inn, Monterey, John Carl Warnecke. **CALIFORNIA REDWOOD ASSOCIATION CASH AWARD:** Walnut Creek School, John Lyon Reid & Partners.

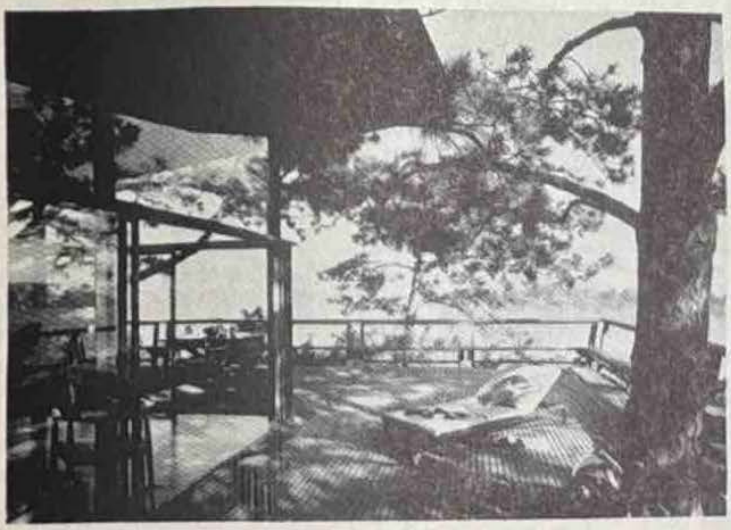
"At least one Chinese wall has been knocked down around here. Instead of keeping the Honor Awards dinner a closed professional affair, the architects not only have thrown it open to the public but brought in an all-star cast of judges that includes only one architect."—Columnist Arthur Caylor in the San Francisco News.



Morley Baer

AWARDS OF HONOR: Studio Apartments, Sausalito (above); Campbell & Wong, architects; Wilson & Wedekind, general contractors. Lawrence Livingston Jr. Residence, Sausalito (left); John Carl Warnecke, architect; Charles J. Hendrickson, general contractor. Elementary School, Sonoma (below); Mario J. Ciampi, architect; H. H. Crocker Co., general contractor.

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Guarantee Mutual Life Co., Omaha, Nebraska.
Architect: Leo A. Daly Co.
Contractor: Peter Kiewit Sons' Co.



Geigy Chemical Co., Greenburg, N. Y. Architect: Skidmore, Owings & Merrill. Contractor: Vermilya Brown Co.



Equitable Life Building, San Francisco, California. Architect: Loubet & Glynn. Contractor: Dinwiddie Construction Company.

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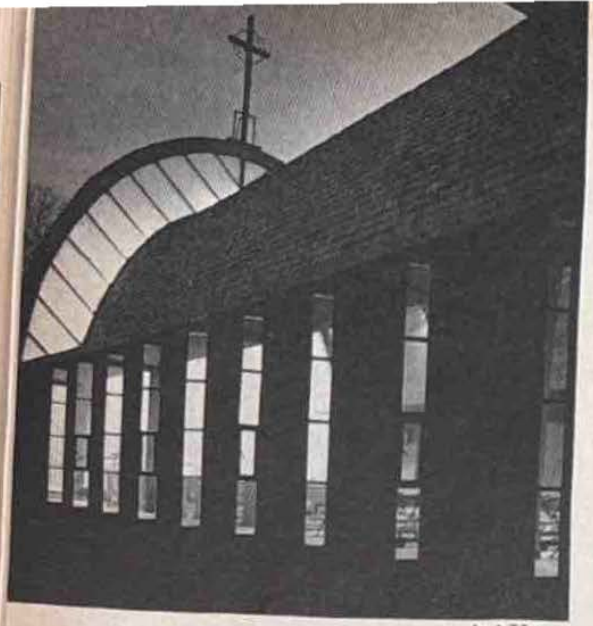
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Art Hupy

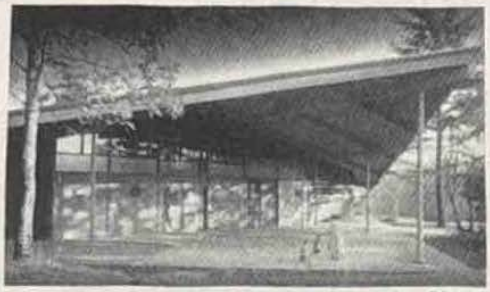
FIRST PRIZE (seating 300 or less)—St. Elizabeth's Episcopal Church, Seahurst, Wash.: Durham, Anderson & Freed, architects.

HONORABLE MENTION (seating 300 or less)—Chapel of the Holy Cross, Sedona, Ariz.: Anshen & Allen, architects (see p. 8.).



Phil Fe

HONORABLE MENTION (seating more than 300)—First Congregational Church, Palo Alto, Calif. Bolton White-Jack Hermann, architects.



Art Hupy

HONORABLE MENTION (seating 300 or less)—Eastshore Unitarian Church, Bellevue, Wash.: Bassetti & Morse, architects.



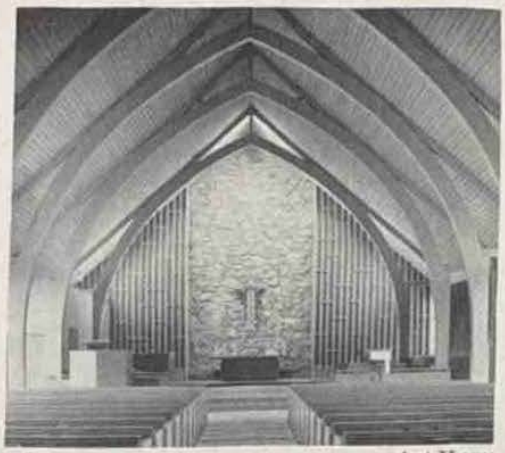
Julius Shulman

HONORABE MENTION (additions)—Neighborhood Church, Pasadena, Calif.: Smith & Williams, architects.



Dean Stone-Hugo Steccati

THIRD PRIZE (additions)—First Presbyterian Church, Burlingame, Calif.: Alfred W. Johnson, architect.



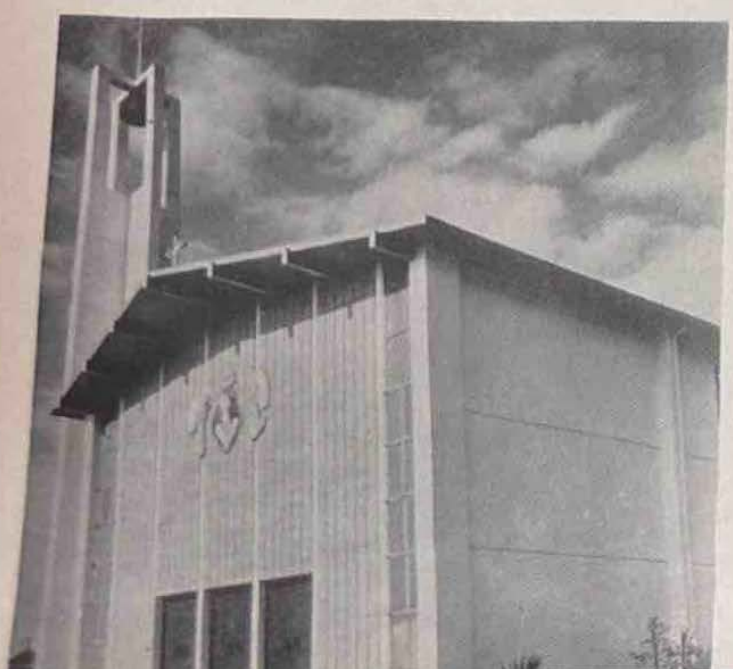
Art Hupy

HONORABLE MENTION (additions)—St. James Presbyterian Church, Bellingham, Wash.: Durham, Anderson & Freed, architects.



Julius Shulman

HONORABLE MENTION (seating more than 300)—Claremont Congregational Church, Claremont, Calif.: Theodore Criley Jr., architect.



CHURCH PROPERTY ADMINISTRATION (West Coast)



FIRST AWARD (complete parish plant, including a minimum of church, rectory, elementary school, convent and parish activities space)—St. Ignatius Parish Group, Sacramento, Calif.: Harry J. Devine, architect.

FIRST AWARD (seating more than 400 and completed since 1951)—Church of the Navitity, El Monte, Calif.: Chaix & Johnson, architects (see PA&B for March 1956).

Volume for first quarter drops 11%; two states show gain

BUILDING PERMIT VOLUME at the end of the first quarter of this year totaled a healthy $564,464,855 for the five western states; nevertheless this is an 11% drop below the same period in record-breaking 1956. California showed the biggest decrease percentagewise, while Idaho chalked up a substantial gain.

State totals for the first quarter and percentages of increase or decrease are as follows: California, $462,643,815, down 13%; Oregon, $27,602,749, down 5%; Montana, $5,703,087, down 0.9%; Washington, $63,934,560, up 4%; and Idaho, $4,580,644, up 15%.

While the March total for the five-state area shows a seasonal increase of 33% over February, the dollar volume is 14% under March of last year. On a statewide basis, only Idaho (up 5%) reported an increase. California was down 14%; Oregon, 15%; Washington, 6%; and Montana, 30%.

Among individual reporting agencies with substantial decreases were Long Beach, down $13 million; Los Angeles County, $11 million; Contra Costa County, $4¾ million; Fullerton, $3½ million; and Seattle, $2¾ million. Those showing good-sized increases were Los Angeles, up $11¾ million; Stockton, $4 million; San Francisco, $2½ million; Orange County, $2 million; and King County, $2 million.

Housing continues to be the stumbling block. For example, among the seven agencies listed below whose building permits are divided according to categories, all but one show substantial decreases in dollar value of residential construction compared to a year ago.

Following is a breakdown of building permits issued by several major agencies during March.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	39	($ 584,800)	16	($1,077,135)	3	($ 415,000)
King County	341	(3,318,910)	50	(792,145)	5	(3,513,000)
Seattle	649	(2,825,870)	211	(924,225)	5	(260,400)
Tacoma	113	(487,637)	30	(415,535)	3	(1,270,000)
Orange County	602	(7,543,732)	61	(587,043)	2	(41,200)
Sacramento Co.	334	(2,258,839)	57	(3,366,041)	5	(65,567)
Los Angeles Co.	2689	(23,915,340)	377	(5,249,814)	37	(1,072,700)

Building Permit Totals for 116 Western Agencies for March 1957

CALIFORNIA	Mar. 1957	Feb. 1957	Mar. 1956
Alameda County	$ 3,082,343	$ 3,231,850	$ 4,314,112
Anaheim	5,432,565	2,028,157	4,153,750
Bakersfield	667,936	937,882	1,337,180
Burbank	1,002,726	818,430	822,046
Contra Costa County	1,919,491	1,604,598	6,759,649
Fresno	2,106,950	1,554,867	2,462,608
Fullerton	1,131,910	1,846,344	4,678,395
Glendale	1,053,930	1,396,585	1,546,606
Inglewood	788,420	293,261	1,057,852
Long Beach	4,368,675	4,618,580	17,413,290
Los Angeles	51,937,409	31,254,274	40,122,647
Los Angeles County	31,184,304	25,175,845	42,065,510
Oakland	2,187,768	2,384,319	3,210,475
Ontario	269,272	1,663,599	1,125,562
Orange County	8,419,389	4,570,606	6,420,135
Palo Alto	832,072	1,105,537	3,346,119
Pasadena	1,612,744	1,773,462	2,741,543
Pomona	1,037,199	2,176,781	3,662,169
Richmond	1,136,373	401,416	1,157,197
Riverside	1,546,283	1,573,904	2,362,844
Sacramento	1,531,971	1,354,615	2,596,933
Sacramento County	5,791,174	4,423,914	7,106,782
San Bernardino	1,837,876	1,633,561	2,476,214
San Bernardino County	8,158,364	4,365,922	5,563,527
San Diego	9,750,221	6,419,132	10,711,618
San Diego County	4,168,200	4,176,800	3,495,120
San Francisco	7,254,487	3,469,067	4,460,900
San Jose	3,132,895	3,745,775	5,348,274
San Mateo	1,023,874	886,658	1,013,342
San Mateo County	2,385,619	3,700,766	2,472,350
Santa Ana	765,318	1,345,142	1,889,692
Santa Monica	1,854,270	2,227,326	1,628,531
Stockton	4,965,782	665,796	740,615
Sunnyvale	2,405,200	2,088,900	2,560,795
Torrance	1,235,015	1,724,744	2,937,828
West Covina	2,034,755	2,292,273	2,236,430
TOTAL	$180,012,780	$134,930,688	$208,698,640

OREGON	Mar. 1957	Feb. 1957	Mar. 1956
Albany	$ 134,650	$ 92,150	$ 82,200
Astoria	37,942	77,727	59,328
Baker	9,275	33,300	41,967
Bend	148,505	93,350	107,500
Coos Bay	141,895	25,748	168,880
Corvallis	98,400	130,100	287,547
Eugene	268,820	215,710	310,661
Grants Pass	56,985	78,300	65,130
Gresham	85,500	41,700	211,200
Hillsboro	360,584	241,208	223,300
Klamath Falls	132,146	76,080	337,490
LaGrande	16,440	4,375	57,640
Lane County	718,614	554,566	834,777
Medford	173,737	180,365	285,448
Multnomah County	1,466,760	2,500,051	2,572,425
North Bend	25,290	229,237	101,390
Oregon City	24,075	36,155	31,700
Pendleton	173,775	64,980	209,845
Portland	3,675,225	1,732,135	4,295,520
Roseburg	28,161	45,783	88,735
Salem	959,264	195,755	470,498
Springfield	660,820	47,000	197,486
The Dalles	74,765	12,000	110,342
TOTAL	$ 9,471,628	$ 6,707,775	$ 11,091,549

WASHINGTON	Mar. 1957	Feb. 1957	Mar. 1956
Aberdeen	$ 123,040	$ 51,469	$ 80,608
Anacortes	80,925	38,395	148,930
Auburn	103,450	96,200	37,720
Bellingham	262,838	80,305	407,569
Bremerton	126,715	81,015	605,276
Centralia	148,434	51,396	28,096
Chehalis	23,352	9,335	39,927
Clarkston	42,881	79,705	97,312
Ellensburg	31,090	30,070	25,600
Ephrata	601,446	33,539	267,140
Everett	329,903	1,505,927	156,408
Kelso	46,500	17,500	45,200
Kennewick	109,800	57,550	118,100
King County	7,649,530	4,786,188	5,702,036
Kirkland	116,050	76,050	79,050
Longview	142,390	251,691	73,231
Moses Lake	138,838	103,164	801,436
Olympia	196,332	117,807	218,040
Pasco	85,145	112,275	105,225
Pierce County	1,260,714	889,015	2,027,595
Port Angeles	39,750	2,700	95,100
Puyallup	82,825	82,100	27,325
Ritzville	36,000	1,500	25,500
Seattle	4,087,725	6,842,227	6,857,290
Shelton	13,350	13,200	269,400
Spokane	2,870,533	2,626,256	2,725,600
Spokane County	2,086,179	805,247	2,308,308
Sumner	2,200	14,250	33,001
Tacoma	2,661,299	861,455	1,502,115
Vancouver	409,542	650,195	647,169
Walla Walla	184,435	122,852	593,093
Wenatchee	263,030	162,825	216,390
Yakima	962,788	88,177	697,278
TOTAL	$ 25,319,229	$ 20,721,580	$ 27,062,068

MONTANA	Mar. 1957	Feb. 1957	Mar. 1956
Billings	$ 806,900	$ 146,000	$ 1,095,000
Bozeman	44,000	500	39,000
Butte	122,121	47,750	61,986
Glasgow	11,450	5,530	11,525
Glendive	38,800	Nil	129,874
Great Falls	1,022,437	1,710,389	1,284,381
Helena	313,265	133,225	958,385
Kalispell	61,674	16,800	15,400
Lewistown	8,000	12,000	109,500
Livingston	36,860	3,330	32,600
Miles City	56,415	4,300	128,320
Missoula	49,700	40,200	51,178
TOTAL	$ 2,571,622	$ 2,120,024	$ 3,917,149

IDAHO	Mar. 1957	Feb. 1957	Mar. 1956
Boise	$ 354,031	$ 184,635	$ 377,618
Caldwell	67,155	29,700	80,916
Coeur d'Alene	90,700	5,350	164,400
Idaho Falls	775,990	4,300	216,700
Jerome	40,350	38,500	56,625
Lewiston	427,275	47,875	176,085
Nampa	112,950	17,325	234,725
Payette	2,975	3,010	41,760
Pocatello	296,346	46,151	202,364
Sandpoint	750	2,000	34,550
St. Maries	13,500	3,000	Nil
Twin Falls	309,875	56,950	874,170
TOTAL	$ 2,482,897	$ 439,796	$ 2,459,913

GRAND TOTAL	$219,858,156	$164,919,863	$253,229,319

A new century beckons architects to nation's capital

"Since our interest is directed to the future rather than the past and to the influences of society upon architecture rather than to the practice of architecture itself, these discussions will explore . . . our new technology; the international problems created by the shrinkage of time and distance; the pressures placed upon resources by changing economies and expanding population; the status of the arts in a dynamic civilization; and the impact of these interrelated movements upon our environment of tomorrow."

For at least five days next month—May 13-17—Washington, D.C., will double as the nation's capital of architectural discussion when the American Institute of Architects celebrates its centennial. The Shoreham and Sheraton-Park hotels will serve as headquarters.

The tentative list of program speakers reads like a "Who's Who in America" with leaders in a number of related fields invited to appear, headed by President Eisenhower. (As we go to press it has not yet been established whether he will accept.)

Among the multiude of participants will be three West Coast architects, John S. Detlie of Seattle, Nathaniel Owings of San Francisco and Charles Luckman of Los Angeles, all of whom will serve as session chairmen; and a former Portland architect, Pietro Belluschi, will give one of the principal architectural addresses.

Detlie will moderate a panel which will explore the question, "Should art be subsidized by government?" Three viewpoints will be expressed by Lillian Gish, actress; Dr. Howard Mitchell, conductor of the National Symphony Orchestra; and U. S. Sen. Homer Capehart of Indiana.

Preceding the panel will be a discussion of "The Arts in Modern Society" by Bennett Cerf, director of Random House and well known to television viewers for his weekly appearance on "What's My Line?"

A session on technology, chair-



DETLIE



BELLUSCHI

manned by Owings, will feature talks by Dr. Detlev W. Bronk, president of the National Academy of Sciences, and Paul G. Hoffman, U. S. delegate to the United Nations.

Luckman will head a session devoted to the world of economics—population trends; the expansion of business and its responsibility to the community; the role of labor in the new society. Panelists will include Dr. Emerson P. Schmidt, director of economic research, U. S. Chamber of Commerce; Brewster Jennings, chairman of the board, Socony-Mobil Oil Co.; and Walter Reuther, chairman, Economic Council, AFL-CIO.

The convention theme, "A New Century of Architecture," will be discussed by Belluschi, dean of architecture at Massachusetts Institute of Technology. He will look at the development of American architecture over the last 100 years, its relationship to new technology and the needs of our changing environment, and the path it will follow in the foreseeable future.

Keynoting the institute's 89th annual convention will be the editor of the Atlantic Monthly, Edward A. Weeks, who in examining "The World of Nations" will consider such aspects as the impact of politics upon native environment. His address will follow the opening remarks by AIA president Leon Chatelain on Monday evening, May 13.

Dean John E. Burchard of the School of Humanities, MIT, whose keynote address was the highlight of the 1956 convention in Los Angeles, will chair a session on "Environment and the Individual." He is also writing a book on the interrelation of society and architecture in the nation during the past century.

Others scheduled to appear on the program are John Knox Shear, editor of Architectural Record; Carl Feiss, architect and planning—urban renewal consultant; David Rockefeller, executive vice president, Chase Manhattan Bank; and U. S. Sen. Joseph Clark of Pennsylvania.

Other events will include the presentation of the Gold Medal and a special Centennial Medal (see PA&B for February) at the annual dinner, the Honor Awards luncheon (see p. 8) and the investiture of new fellows. Exhibition Hall of the Sheraton-Park Hotel will house the building products display.

More AIA news on p. 39

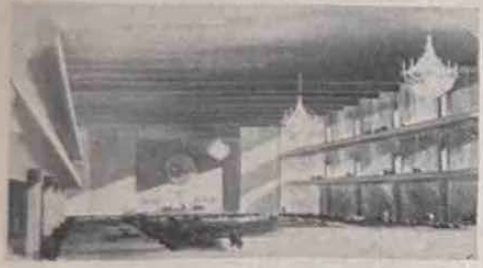


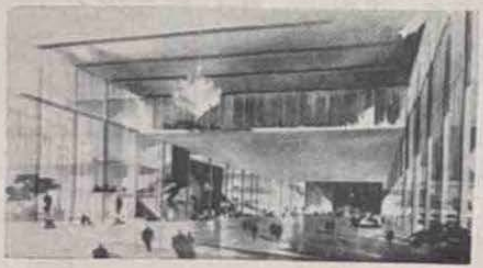
OVERALL AERIAL VIEW of proposed center above; and below (l. to r.) Great Hall, Gallery and private meeting room.

Cultural center for capital gets presidential nod

A move to enable Washington, D.C., to take its place culturally among other capitals of the world has taken a giant step ahead with approval of President Eisenhower of initial plans and recommendations for a $40 million National Civic and Cultural Center.

A planning board, headed by Los Angeles architects-engineers Pereira & Luckman, envisions the center as a multipurpose structure with auditoriums and halls of varying size to accomodate events ranging from international conferences to ballet and musical programs, both large and small.









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Dallas 528 Interurban Building, Riverside 1-5225

CATALOGS IN SWEET'S

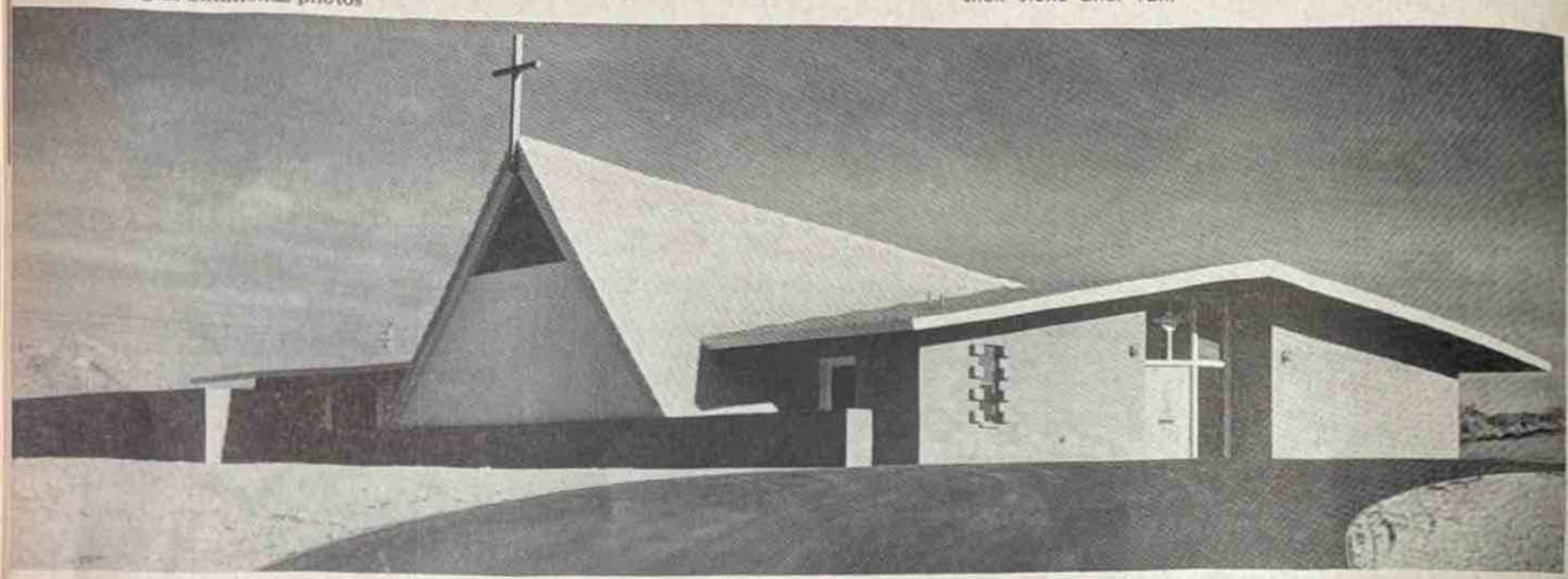
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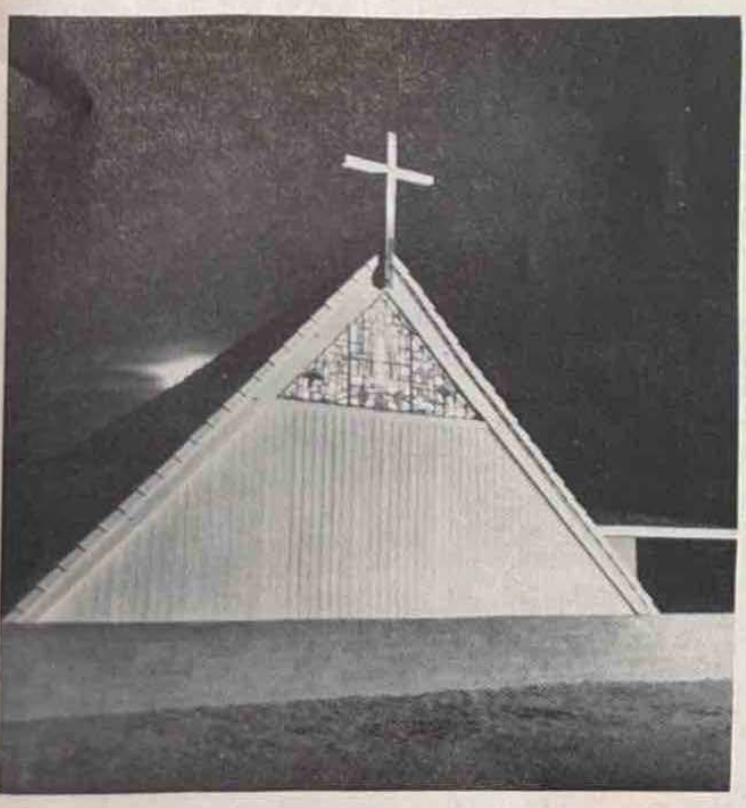
Religious plant takes its cue from the desert

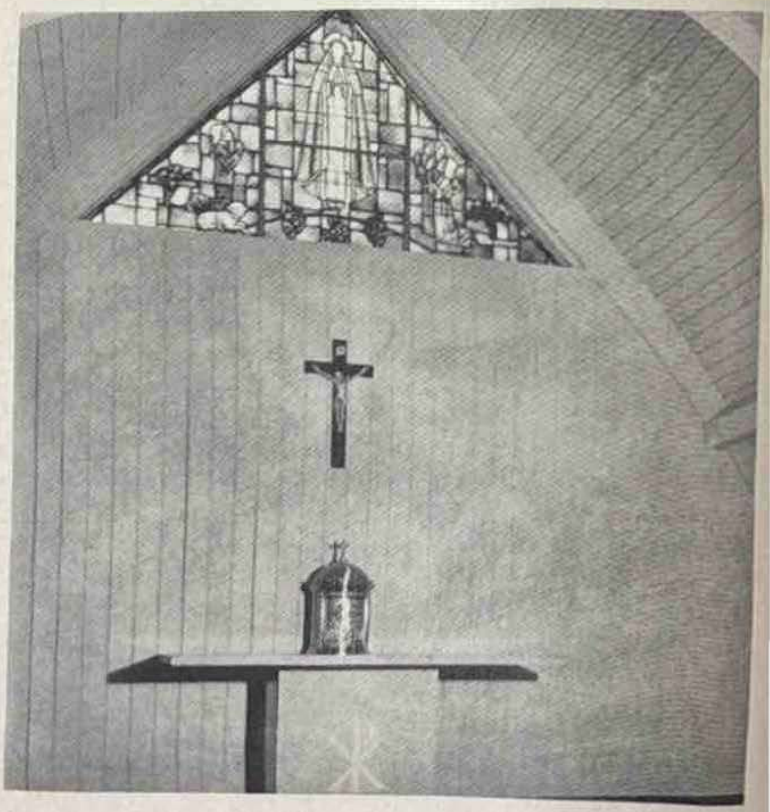
St. Mary's Academy School and Convent
Apple Valley, California

Douglas Simmonds photos

CONVENT BUILDING HOUSES CHAPEL with stained glass window executed by Judson Studios in soft desert tones. Chapel interior is gray, has polished granite altar and Florida shell stone alter rail.





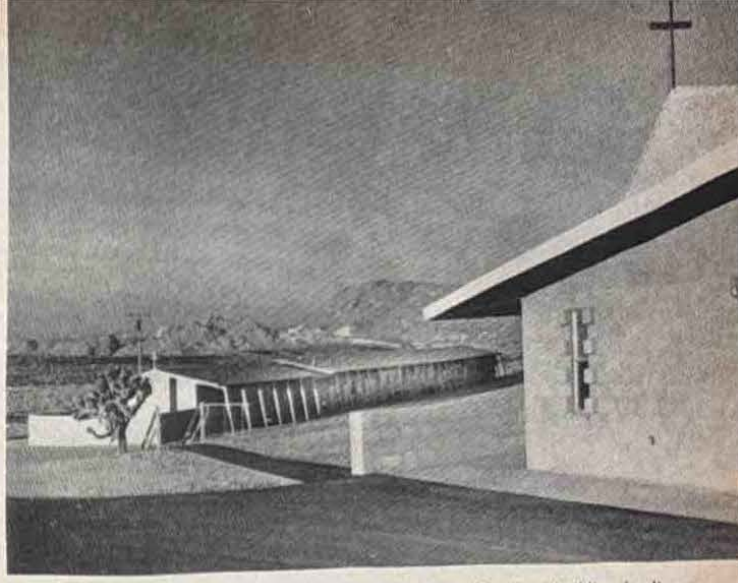


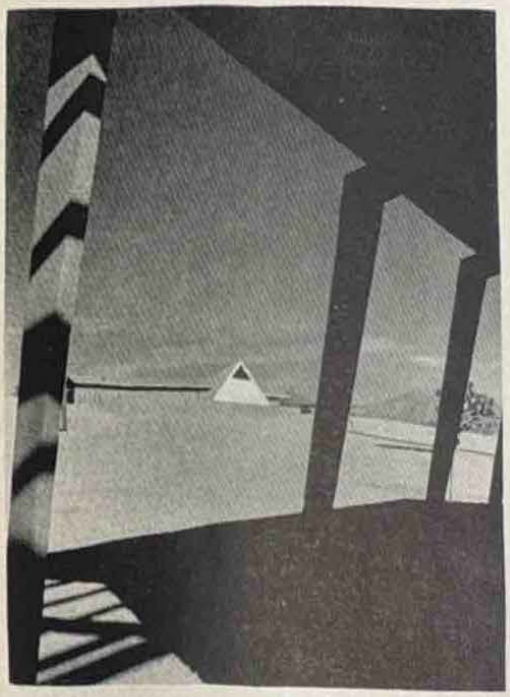
McFARLAND-BONSALL-THOMAS, Architects

WILLIAM T. WHEELER, Structural Engineer

FRED SCHWARTZ, Mechanical Engineer

BENNINGTON & SMITH, General Contractors



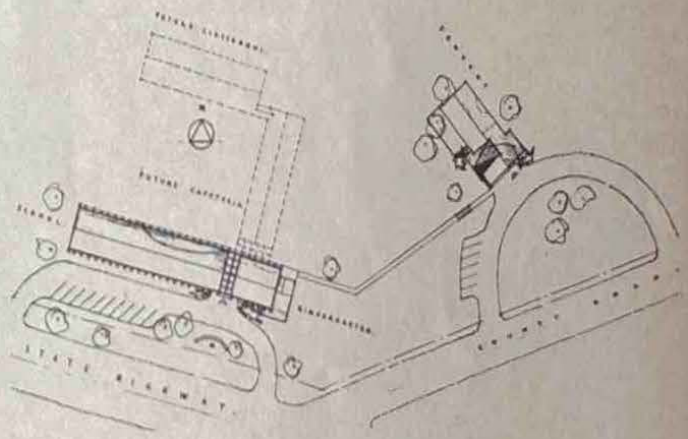


ENTRANCE TO CONVENT (above) with school building in distance down hill. Each classroom has outside entry from covered walk. Arcade effect was almost lost because of need for $1,000 for supporting post structures; but in separate campaign posts were "sold" to contributors at $20 each.

PLANS AND MATERIALS have been so coordinated that the first two buildings in this religious plant—a school consisting of four elementary classrooms and kindergarten and a convent housing six nuns and chapel—seem to grow out of the sandy bush-covered hills. The major design problem was to arrange the initial structures on the 25-acre site between Apple Valley and Victorville with the idea of future development constantly in mind. Eventually the project will have four more classrooms, cafeteria, considerably enlarged convent, high school and church, and necessary play areas and game fields.

As in similar building programs, the budget was another pressing matter but here it was further accentuated. Normally some 300 to 400 families are considered necessary to support a parochial school, as against this parish with less than 200 families within a 28-mile radius. Construction costs, exclusive of property and landscaping, totaled $107,000; totally equipped the project represents $143,000.

Exteriors of both buildings are of coral-colored, lightweight cinder block, with roofs of crushed red stone. The convent trim is painted soft yellow; the school, soft green. The chapel end wall of 2x6 t&g solid sheathing repeats the yellow, while its roof is of white cement tile. Soft tones also dominate the interiors: grays for the convent and chapel, tans for the school.



OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete.

Exterior Walls: Coral Vibro-Tile lightweight cinder block; chapel end wall of 2x6 t&g solid sheathing.

Roofs: Heavy crushed red stone on asphalt paper-mopped; chapel of white cement tile over asphalt paper-mopped.

Floors: Asphalt tile over 4-in. concrete slab.

Windows: Metal Window Corp. aluminum casements (some transom style); stained glass window by Judson Studios.

Interior Walls and Partitions: Plaster on 2x4 studding; some cinder block cross walls.

Ceilings: Acoustical tile in school; 2x6 t&g solid sheathing on 6x8 scissor beams in chapel.

Insulation: Rockwool bats in ceilings, with ventilated attic space above.

Lighting: Incandescent pendant concentric ring fixtures in school; recessed and bullet type in main rooms of convent; special pendant and indirect fixtures in chapel.

Heating: Payne forced air unit.

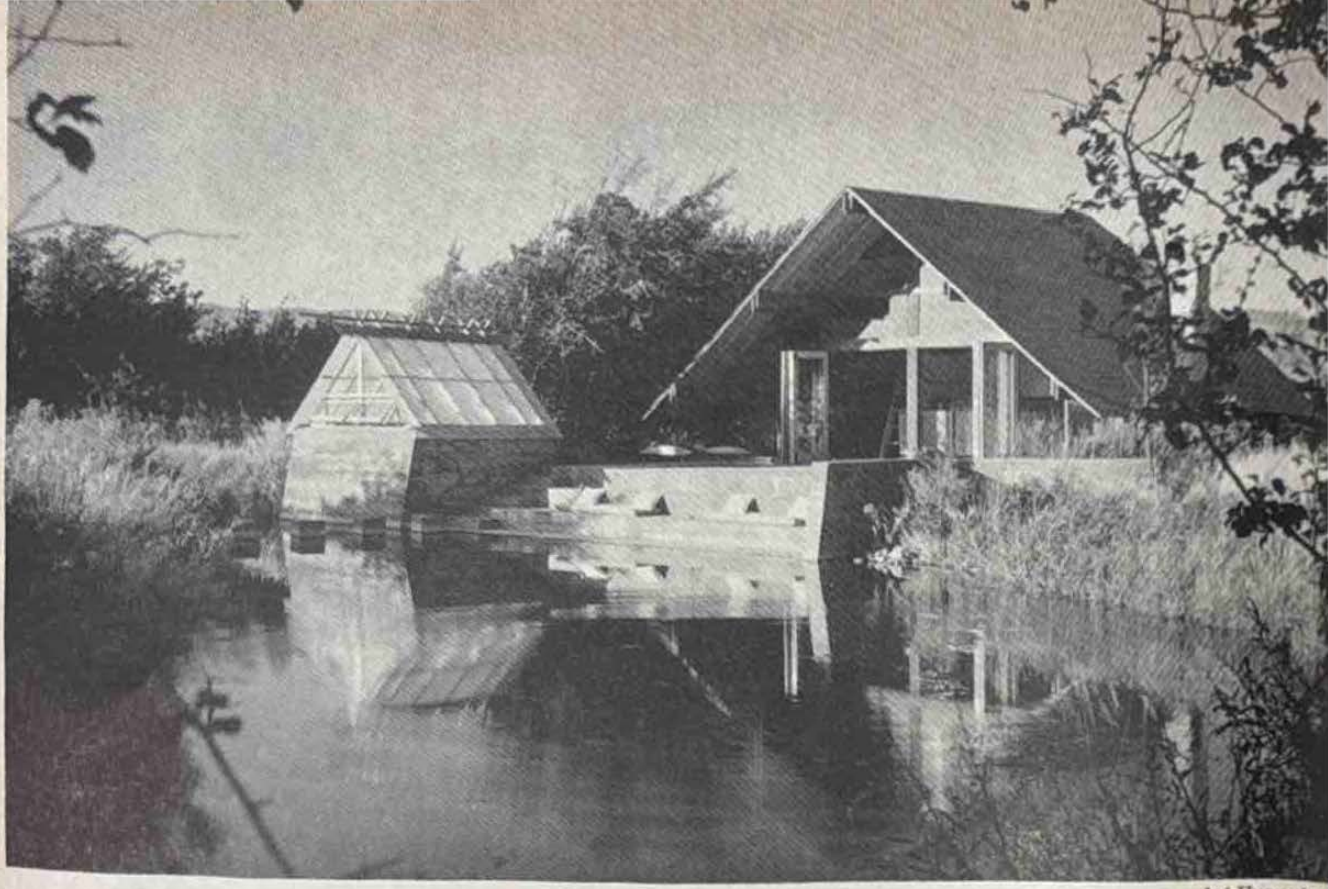
Cooling: Laid out for individual room coolers in attic of school; cooler and blower fans installed in convent to serve chapel and main corridor.

Plumbing: American Standard throughout with copper water supply lines under slab.

Total Area: 120,726 cu. ft. (82,026 cu. ft., school; 38,700 cu. ft., convent).

Total Cost: $107,000, exclusive of property and landscaping.

Date of Completion: 1953.



Art Hupy photo

An architect's own weekend retreat

Ellensburg, Washington

PAUL THIRY, FAIA, Architect

"JUST A SHELTER" is the way the architect describes this weekend house he designed for his family of four. Sited in the middle of a valley adjacent to a mountain-fed creek in the cattle country of eastern Washington, it looks out to the fields and snow-capped peaks. The nearest neighbor is one-fourth mile down the road; the nearest city of Ellensburg, five miles away.

To complement this setting for rest and play, the small house has been planned for a minimum amount of housework and maintenance—enameled fixtures, tile floors and walls, etc.—while providing such conveniences as dishwasher, refrigerator and electric radiant heat. It is divided into two distinct units: kitchen-sitting area with fireplace and cleanup-dressing area, which has drawer space and washing facilities separated from the toilet and shower. The parents sleep on the balcony, the boys in a plastic-roofed structure (in shadow until 8:15 a.m.) at the edge of the terrace. More sleeping houses can be added as requirements demand.

While at the weekend retreat, most of the family living is done out-of-doors—fishing, hiking, hunting or just plain lounging. Thus the members arrive dressed for the occasion, eliminating the need for closets, which only collect dirt and insects and get musty when the house is vacant.

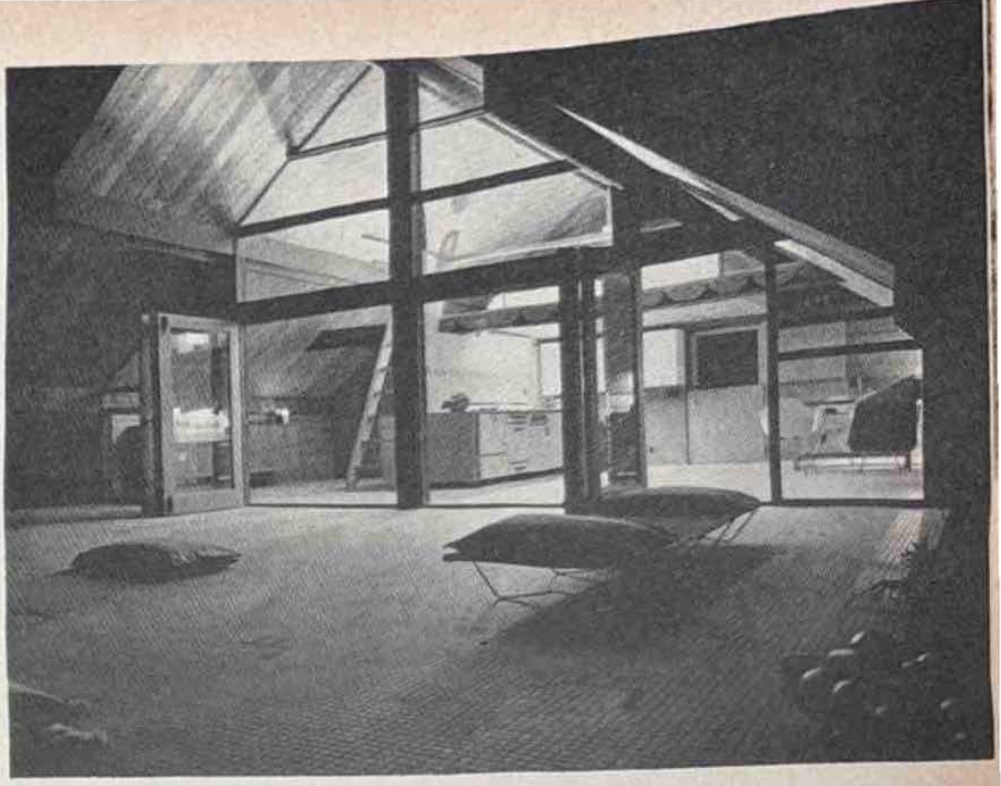
Orientated against a strong wind, the house takes its shades of yellow, red and brown from the surrounding countryside.

PASTORAL CHARM REFLECTED IN POND by day takes on dramatic impact in clear night so typical of eastern Washington. Since house is located on game preserve property, ducks add to enjoyment of pond, separated from mountain-fed creek by small island.

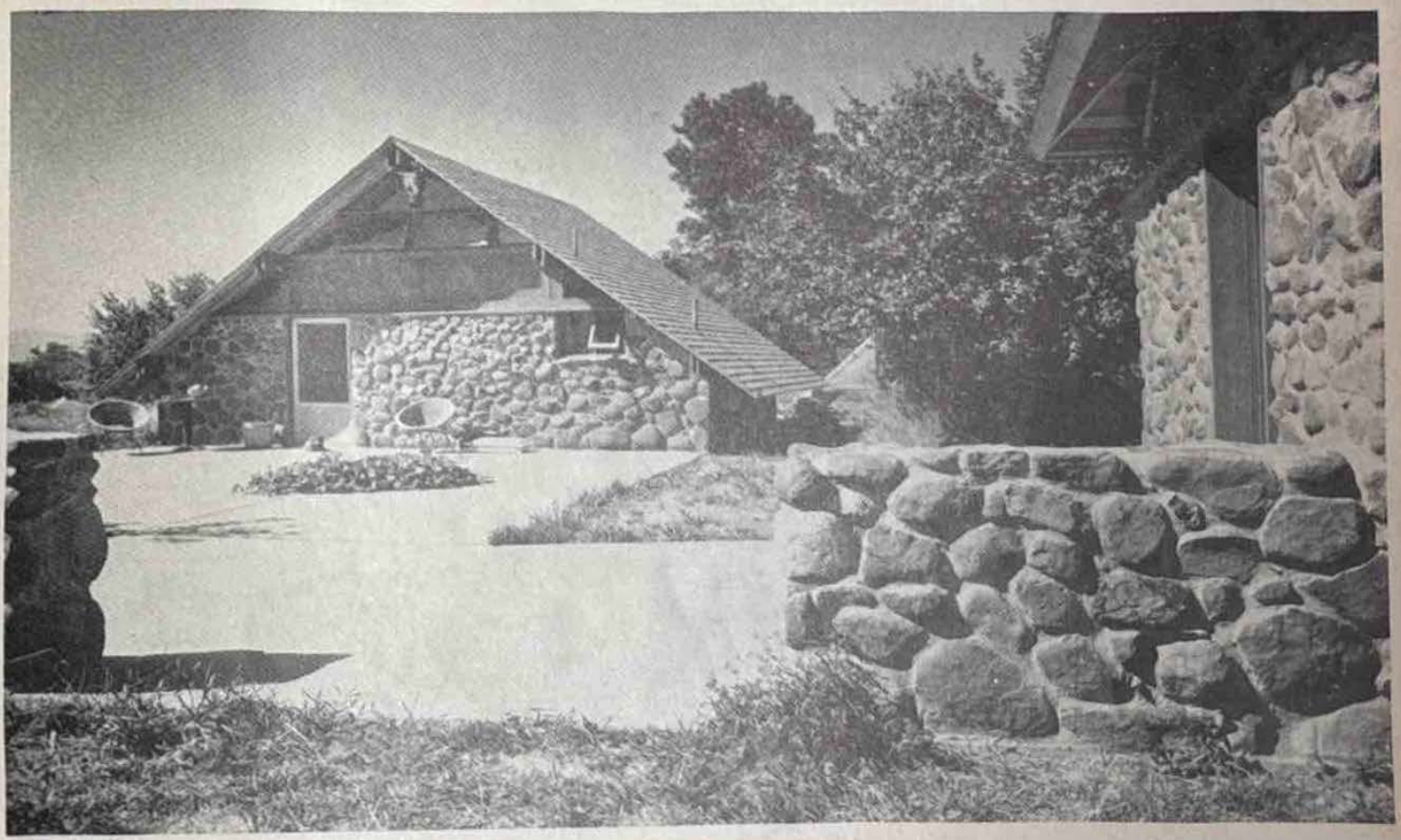


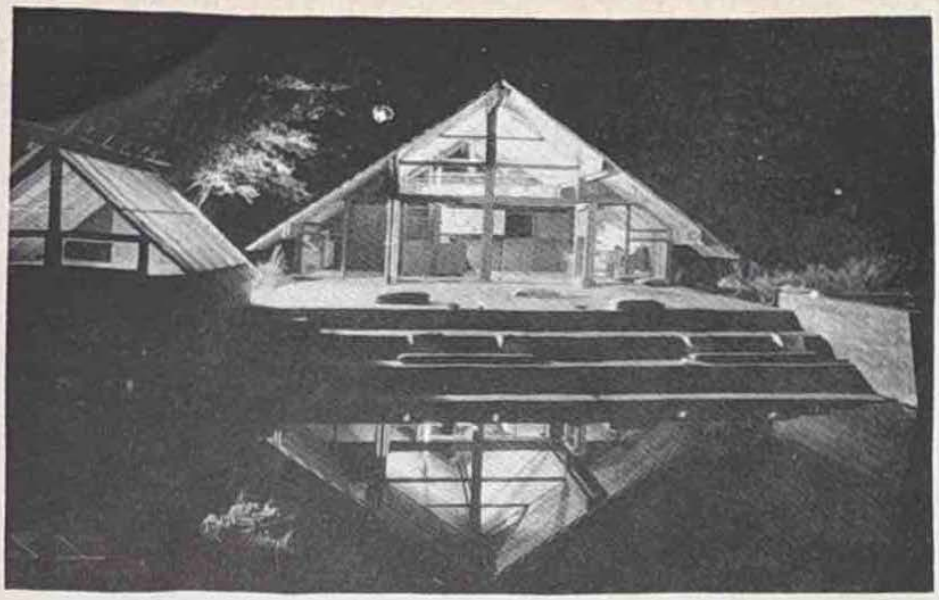


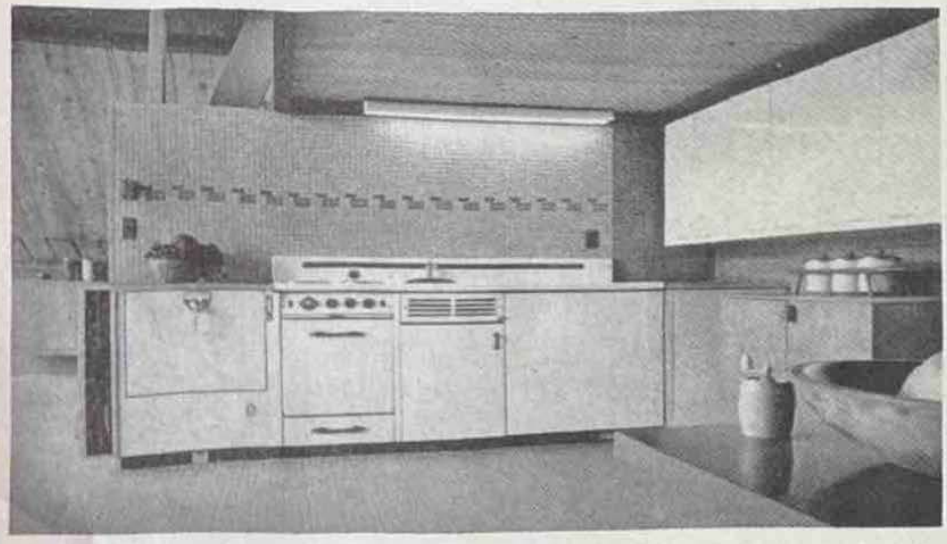
CLOSEUP of yellow tiled floor used thraughout house for easy maintenance. Designs executed by architect's wife are replicas of those found on Indian basketry in area. All-purpose area is seen in right foreground, with cleanup-dressing area to left of kitchen core.



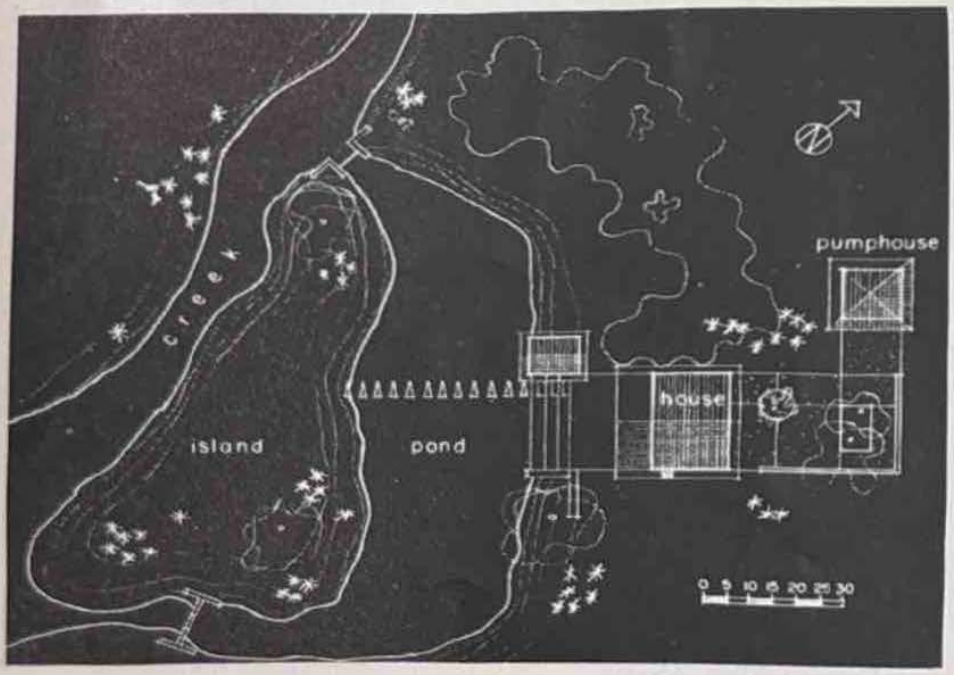
FIELD STONE VENEER ties house to countryside about, offers privacy from road. Shadow is thrown on patio side in heat of day. Pumphouse at right contains water tank, work bench, garden tools, food supplies.





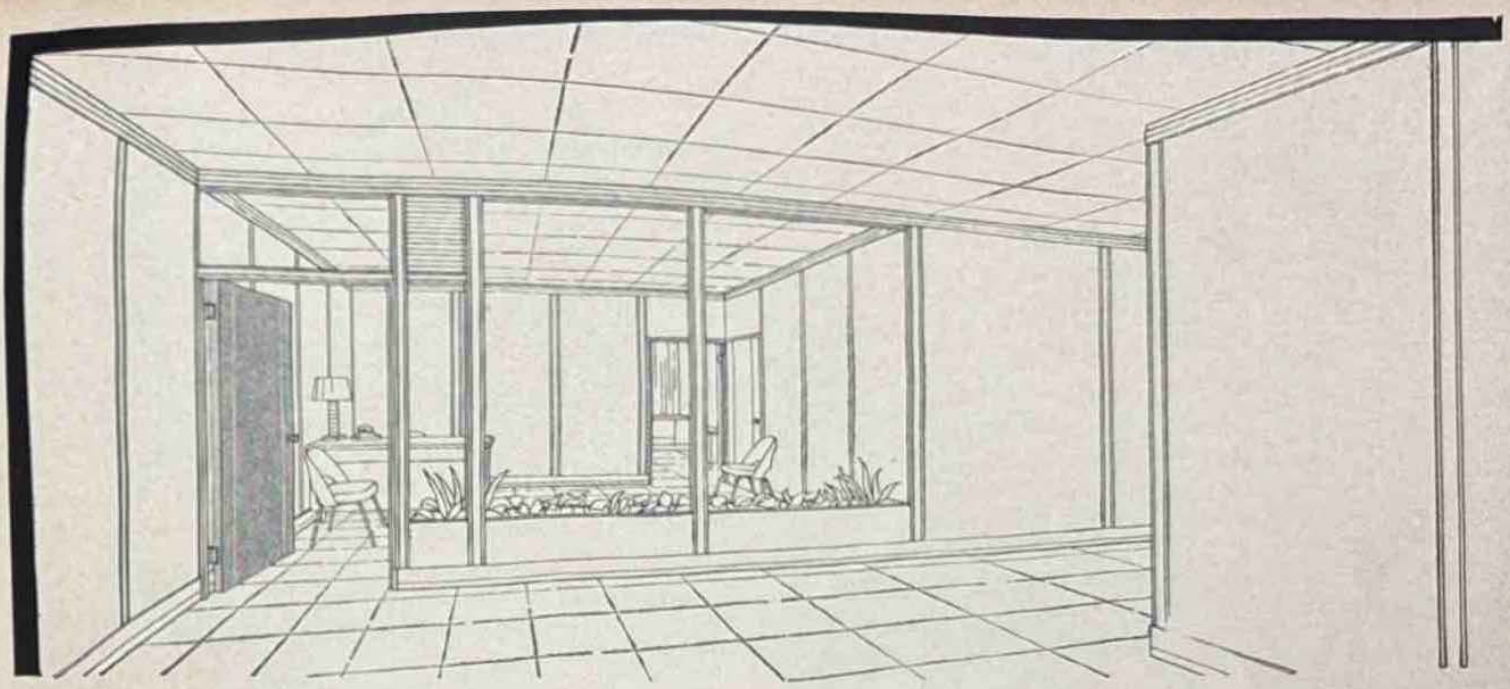


TERRACE ITSELF is tiled throughout. Drudgery of cooking tasks is lessened since kitchen is core of plan, facilitating conversation with rest of family. Cleanup area is behind kitchen partition.



OUTLINE SPECIFICATIONS

Type of Construction: Wood frame.
Exterior Walls: Field stone veneer and glass.
Roof: Mill type 2x6 t&g, asbestos shingles.
Floor: Concrete slab over 6-in. gravel fill, with Mosaic tile surface.
Interior Finish: Mosaic tile and mahogany casework.
Insulation: Fiberglass.
Heating: Heatsum electric radiant cable in slab.
Date of Completion: Summer 1956.



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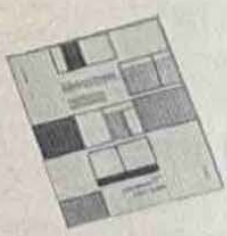
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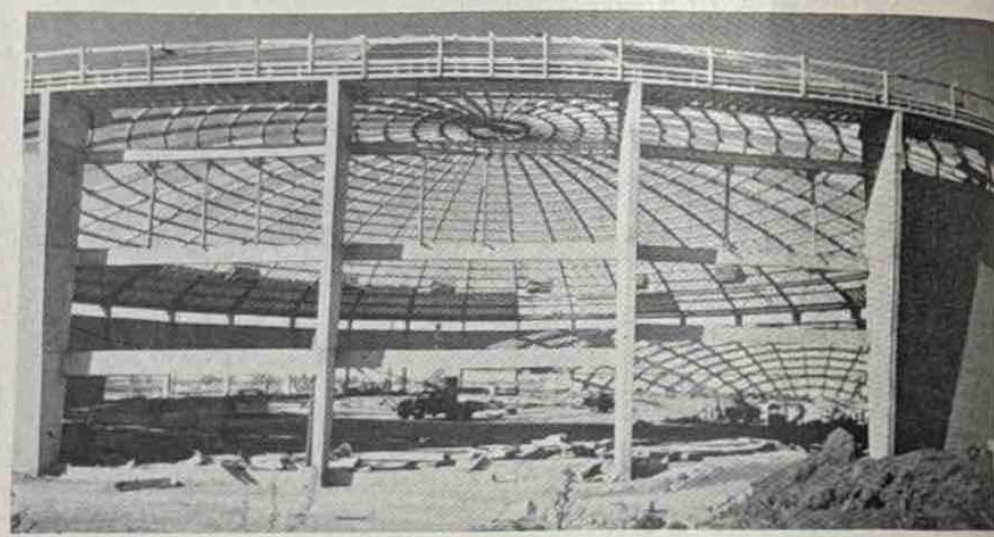
TIMBER STRUCTURES, INC., Fabricators

HAGGERTY-MESSMER CO., General Contractor

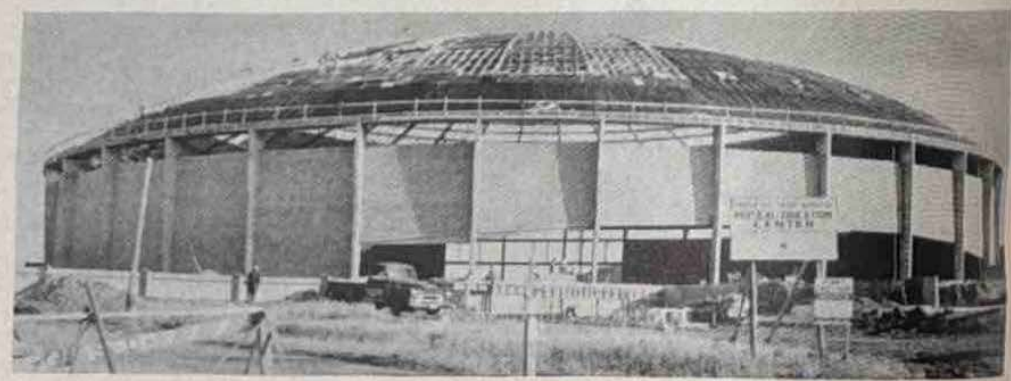


Photo-Art Studios

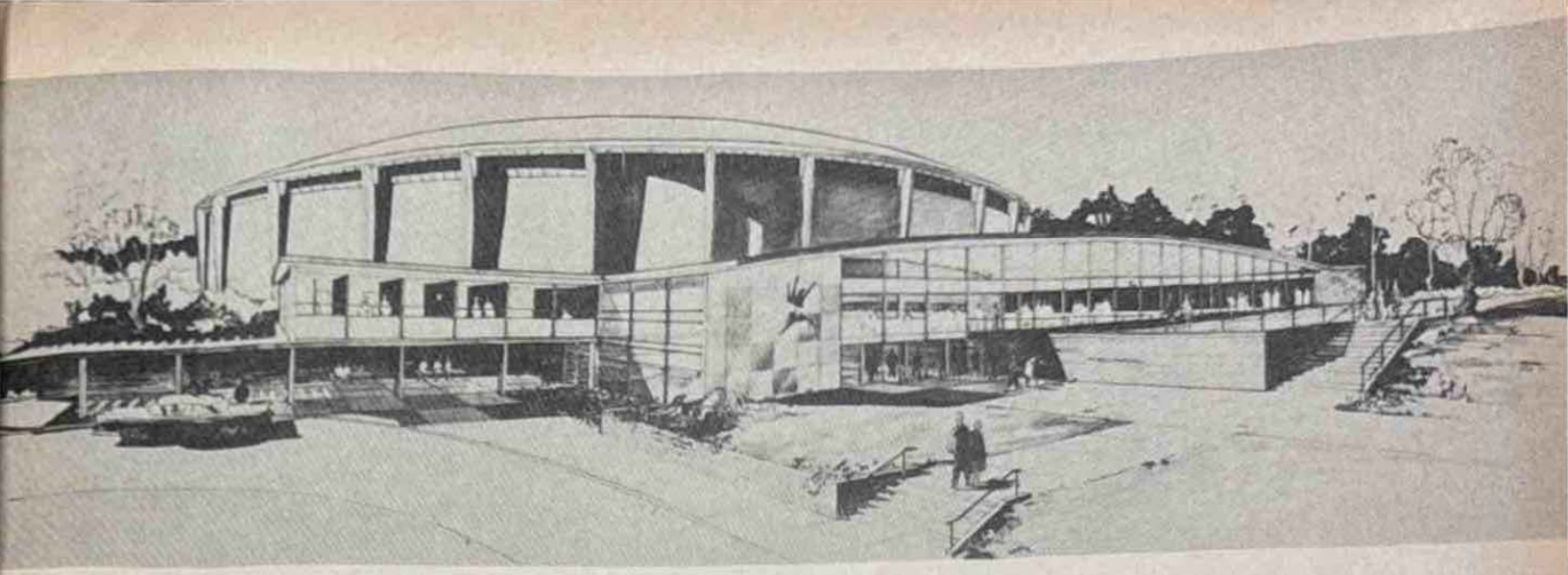
RAISING SECTION of dome into place after assembly of arch ribs purlins, strippers and cross bracing on ground. Pole shoring supports dome section during erection; when completed, shoring is removed, leaving completely unobstructed space. Note size of workmen on top of dome section, joining sections together.



LATERAL BRACING of reinforced concrete is poured integral with pilasters. Wall sections are filled with brick-colored concrete blocks.



TWO-STORY WING nearing completion in foreground will house entrance lobbies and administrative offices.



Fieldhouse spanned by largest timber dome

MOST SPECTACULAR aspect of this physical education center is the fieldhouse main arena, whose dome—300 ft. in diameter, 40 ft. high at the perimeter and 90 ft. high in the center — is believed to be the world's largest clear span timber structure in the world.

The lower ends of the glued-laminated Douglas fir arch ribs are connected to a circumferential tension ring which rests upon reinforced concrete pilasters with a pumice block wall between columns. Upper ends of the ribs frame into a heavy compression ring. Nineteen lines of timber purlins extend around the dome, spaced at 8 ft. on center. The laminated members used to span the 300-ft. diameter are amazingly small. The 36 main ribs are 7x16¼; the compression purlins vary from 7x16¼ to 7x11⅜.

The arch ribs were assembled on the ground in pairs with purlins in place. The assembled sections, weighing about four tons each, were hoisted into place with two cranes and supported by pine poles until the dome was completely assembled in place. Poles were then removed.

On top of the block wall and between the roof line is a continuous band of glass around the complete periphery of the arena. Topping this structural system are sub-purlins, 2-in. wood fiber roof decking, 2-in. rigid insulation, a 20-year built-up roof and a coat of white paint.

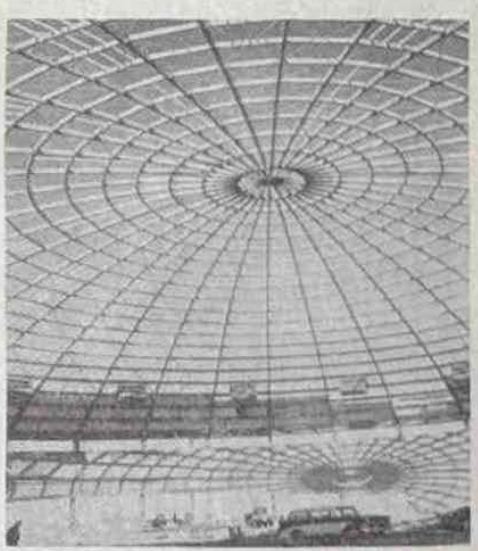
design criteria

Why the architects (Oswald Berg Jr. and the late Fred F. Willson) selected this type of construction is explained in the following paragraphs:

"When we first began working on this building, we fully realized the problem of enclosing an immense area without internal support. We studied many different types of structures and shapes in our search for a striking form to enclose space and still accomplish our objective within a limited budget. This research and design was done on a tight time schedule.

"After numerous sketches and studies of various and some radical approaches to the problems of design, speed of construction and economy, we decided that a dome shell would be the most economical and practical. We immediately discarded concrete shell construction because of its weight, erection time and an end result of higher costs. We made preliminary estimates on the use of wood and steel and from these estimates we found laminated wood to be the less expensive.

"In making our final selection in the use of laminated wood, we not only considered the economy features but many other values, such as its beauty in its final form and color, low maintenance, favorable fire insurance rates, permanency and ease of erection. Other factors we had to consider were humidity effects on the structure, dimensional stability under changing temperatures, elimination of painting by prestaining, time element in erection and availabilty of materials."



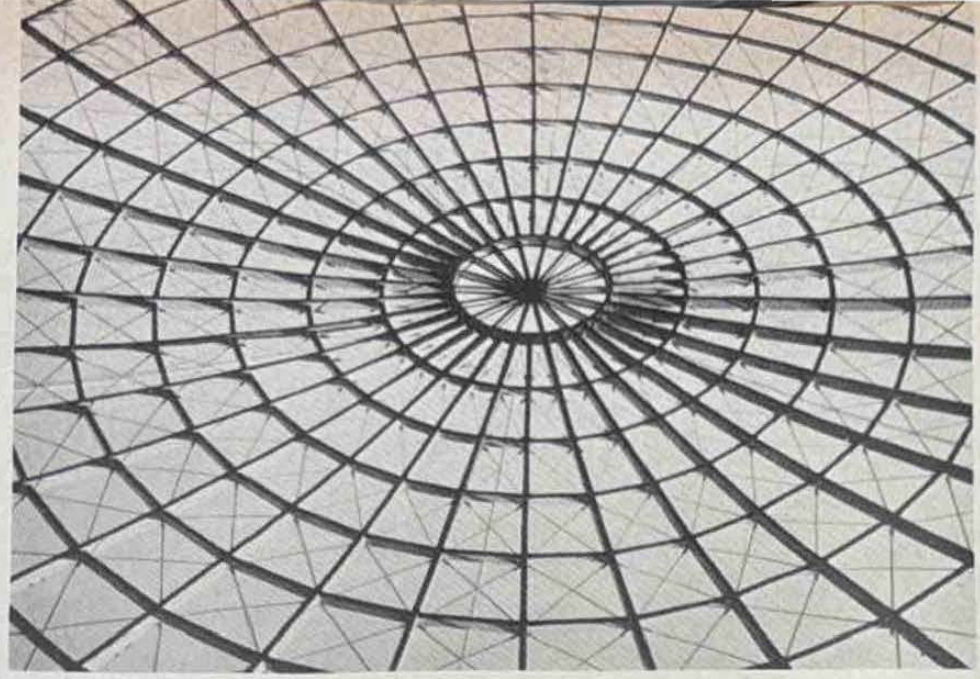
TOP OF DOME is 92 ft. above floor level. Heating units are suspended from arch ribs. Lights and heating units are serviced from catwalk suspended from dome.

The complete cost of this structural system in place, including the top compression ring and bottom perimeter tension ring, with fittings was about $2.60 per square foot. (The architects point out that bid figures to erect this same structure in steel were about 9% higher.)

facilities

The main arena is treated acoustically by the use of the wood fiber roof deck on the entire ceiling of the dome, of the pumice block wall on the perimeter and of clay earth on the floor, as well as depending upon the natural absorption of sound by the spectators. A semi-low level sound system with 52 speakers can control the sound required in any area of the building.

The lighting system provides 100 ft.-candles on the main playing floor for competitive games, 50 ft.-candles for practice periods, 35 ft.-candles on the main arena and 20 ft.-candles on the



ARCH RIBS, PURLINS AND CROSS BRACING form pattern resembling giant spider web. Ends of arch ribs frame into compression ring at top.

FIELDHOUSE

spectator area—all regulated by a low voltage control system in groups or singly.

The air is changed in the main arena about every 20 minutes by huge heat and vent and exhaust units; the locker room air is changed every two minutes.

Two circular catwalks suspended from the roof afford maintenance of the sound, electrical, heating and ventilating systems and serve as spotlight stations for effect lighting. An extensive telephone intercommunications system also has been put in operation.

Steam requirements to properly heat and ventilate this building were almost equal to those of the remainder of the Montana State College campus. Therefore the capacity of the central heating system had to be increased almost double, as likewise the elecrical requirements.

A gay holiday effect is achieved by the use of colors: heating and ventilating units, bright coral; catwalks and the main compression ring in the center of the dome, light blue; sound boxes, yellow. The bright blue of the air intake and exhaust units contrasts with the white roof exterior; the beams are prestained light red.

construction stages

The building has been designed for two stages of construction. The first phase, to be completed this coming June, consists of the main arena, its playing area, locker facilities, spectator seats and six concession stands on the mezzanine; plus the main entrance concourse, administrative offices, coaches' office, one classroom and public lavatories. The arena will accommodate 12,000 for basketball games and about 15,000 for boxing matches, small stage events and rallies. Permanent precast concrete risers with stadium type seats are above the mezzanine on either side.

The second stage of construction will include physical education classroms, a women's swimming pool with spectator area, dressing rooms, auxiliary basketball gymnasium, handball courts, wrestling room, etc. All of these items have been planned in the original scheme and many of the mechanical and electrical facilities have been installed at this time.

It is interesting to note that the physical education center has been promoted and financed by the students themselves — enrollment now exceeds 3,000 and is expected to double by 1965—and by revenue received from activities within the building.

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete.
Exterior Walls: Brick-colored pumice block, with band of glass around periphery between wall and roof line.
Roof: 36 Douglas fir glued-laminated arch ribs, fabricated and erected by Timber Structures, Inc., connected to circumferential tension ring resting on reinforced concrete pilasters. Structural system is topped by sub-purlins, 2-in. Tectum roof decking, 2-in. rigid insulation and 20-year built-up roof painted white.
Floors: Concrete slab with asphalt tile in some areas; clay in main arena.
Interior Walls and Partitions: Exposed masonry; glazed tile in locker and shower rooms.
Ceilings: Tectum acoustical roof decking in main arena; concrete elsewhere.
Sound: Stromberg-Carlson semi-low level system with selective controls.
Heating: American Blower fans heated by gas fired steam central plant.
Ventilation: Air exhausted in arena every 20 minutes when filled to capacity; changed in locker rooms every two minutes.
Lighting: Low voltage system controlled in groups or singly.
Total Area: 138,080 sq. ft.
Total Cost: $1,453,115.
Cost per Square Foot: $11.10.
Date of Completion: June 1957.



BUILDING IS USED in semi-completed condition during basketball season, with seating capacity of 12,000.

Structural engineers look at wood, steel, concrete

—MSC fieldhouse discussed

Wood, steel and concrete all had their day in court, parading new design and construction accomplishments before Far Northwest structural engineers at their first areawide conference, held March 18 and 19 on the Washington State College campus at Pullman.

A session was devoted to each. Verne Ketchum, director of engineering, and Charles Woodworth, development engineer, Timber Structures, Inc., led off with the story for engineered timbers. Laminated timber beams are now being used for spans over 100 ft., far beyond anything which can be done with sawn lumber, Woodworth observed during his talk on "Construction Practices in Glulam."

Woodworth used the new 300-ft. diameter dome field house at Montana State College to illustrate the possibilities of following to its ultimate the principle that the strength of wood runs parallel to the grain. Another example was a bridge, under design now, intended to take such stresses as two railroad tracks, plus ability to handle the weight of an 850,000-lb. gantry crane.

Ketchum, talking on "Recent Developments in the Laminating Industry," stressed fire resistant advantages of timber construction, using a film to show how heavy timbers when exposed to fire char, but are still capable of resisting ordinary loads.

The second session, organized by the American Institute of Steel Construction, was presented by a panel discussion of "Light Occupancy Multistory Steel Structures." Panel members were Chauncey Morse, Bethlehem Steel Co. and president of the Washington Structural Engineers, presiding; A. L. Miller, professor of structural engineering, University of Washington; Rowland Rose, structural engineer, Cooper & Rose, Portland; and Charles Corbit, regional engineer, Los Angeles, American Institute of Steel Construction, Los Angeles.

Professor Miller discussed analysis of a steel frame with particular emphasis on his approach to side-sway moment distribution; Rose talked on use of steel centering around three types of members, the split wide flange beam, the truss and the rigid frame; and Corbit covered the flooring systems.

Third sessions covered "Ultimate Strength Design of Concrete Struc-

Continued on p. 35



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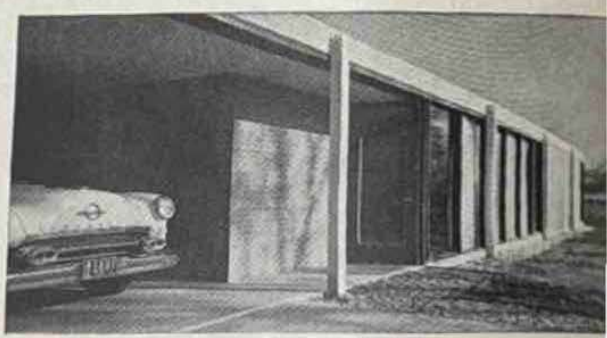


The steel framing of this building has an 8-inch WF 48-pound member running through the center, supported on a 5 x 16-pound column. The front and rear members are 12-inch 10.6-lb. steel channels. These are supported on the 5 x 5 cent column and masonry end walls. Intermediate roofing members are 6-inch channels and 8-inch wide flanges.

Steel frame houses fit every building bud

Forget for a moment the structural and architectual advantages of steel frame houses. What about costs? Steel frame homes need not be more expensive than conventional construction. Judicious use of steel framing can prove a real money-saver. Steel framing means *less framing...faster erection...less labor.* Steel framing can also eliminate the cost of bearing walls leaving interiors wide open and flexible.

The Salt Lake City homes shown here are three examples of how steel framing can be effectively used to reduce costs. Architects Cannon, Smith and Gustavson, had the framework shop welded (in four sections). The welding and grinding took one day in the case of the house in the large picture. Erection time, using three men, was just five hours. Total cost (including built-in furniture and kitchen equipment): $10.50 a square foot.



A distinguishing feature of these Cannon, Smith & Gustavson homes is steel columns riding outside the structure so that loads are carried in shear. The exposed frame presents a clean consistent rhythm that becomes the basic element of the architecture. By introducing some moment into the columns, the architects were able to use lighter steel members.

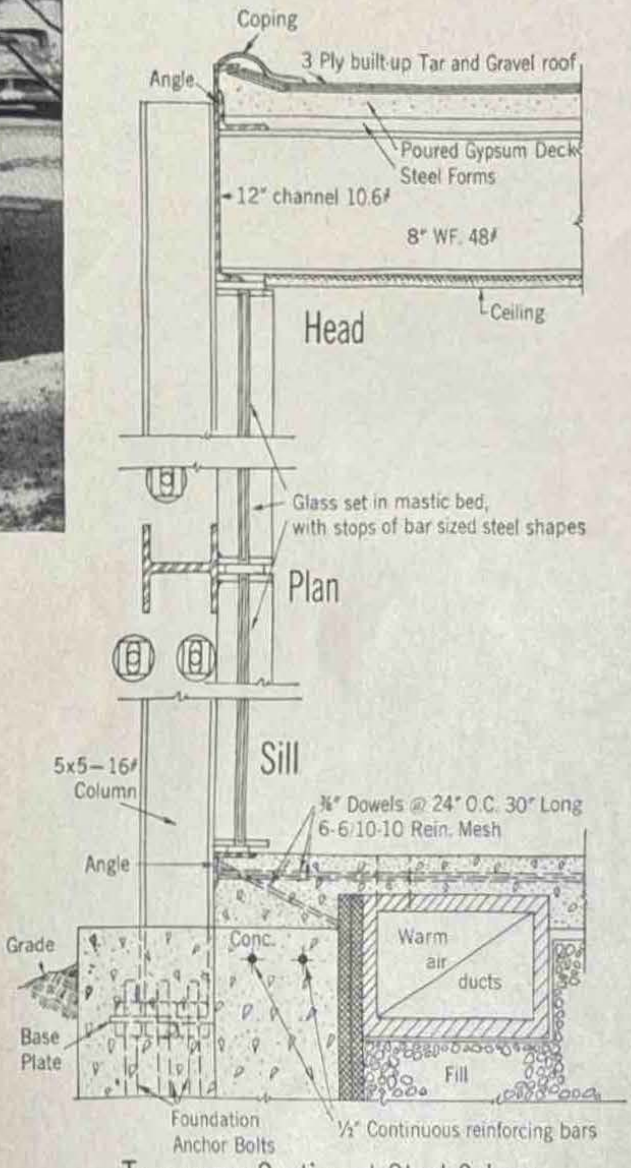




News of 3 more steel homes from United States Steel

The United States Steel shapes used in these Salt Lake City homes are sold by steel jobbers in your locality.

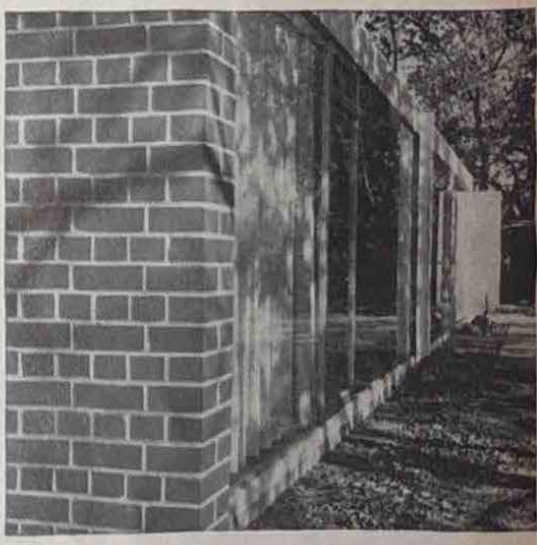
Architect: Dean L. Gustavson, AIA
John W. Sugden, Associate
Cannon, Smith & Gustavson, Salt Lake City



Transverse Section at Steel Column



Steel framing leaves interiors open to such possibilities as this plumbing core, a compact gathering of kitchen, laundry, bath and mechanicals. This also serves as an island separating living and bedroom areas. The ceiling is a simple plaster panel suspended from the steel frame.

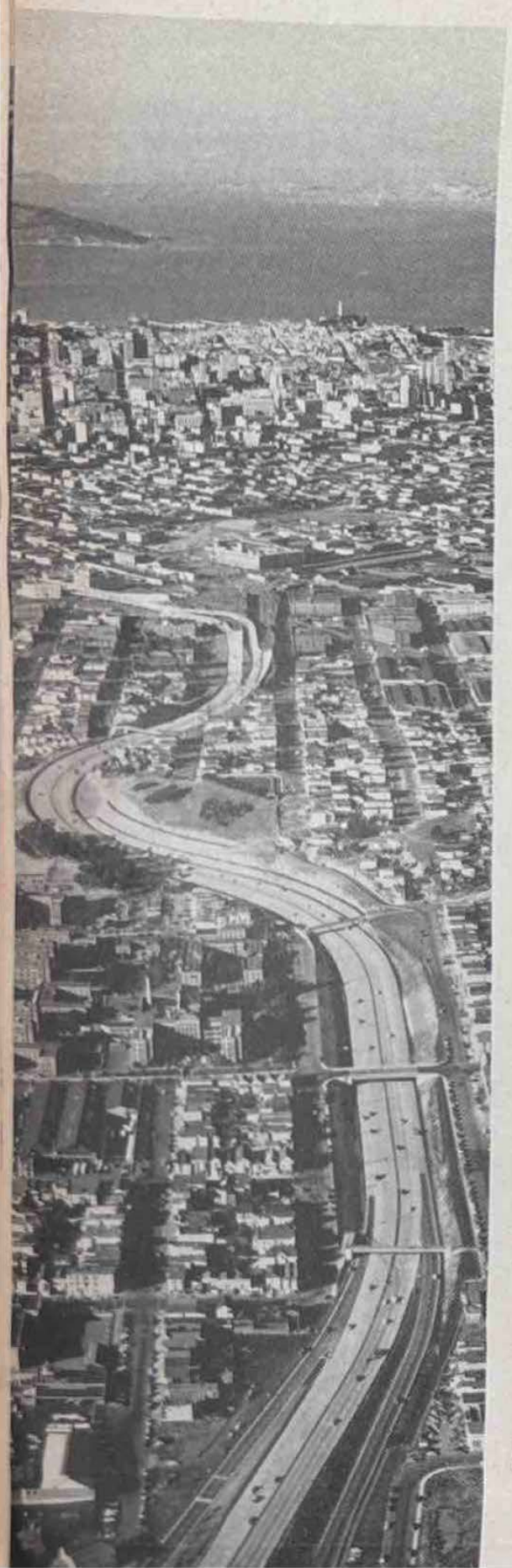


Steel is complementary to any building material. Here the steel frame is set off at either end with English Bond brick bearing walls. The architects favor white painted frames so that shadows will give the structures a "sculptured look."

ARCHITECTS & ENGINEERS: Write for your free copy of *"New Horizons for Home Building . . . With Steel."* This new booklet contains case histories of architect-designed steel homes and other useful information on building codes, specification data and advice on the maintenance and painting of steel. Write: Architects & Engineers Service, Room 1260, United States Steel Corporation, Columbia-Geneva Steel Division, 120 Montgomery Street, San Francisco 6.

Western homes of the future are now building with steel... **UNITED STATES STEEL**

Here is some real food for thought by one of th West Coast's leading architects who long ha been active in regional planning and preser vation activities



PROGRESS' DILEMMA

by PAUL THIRY, FAIA

THERE IS a natural instinct in man to build. It also seems there is an insidious impulse to destroy. The process of nature and of history parallel one another in birth and death.

We all know of the ravages of Attila the Hun, of Tamerlane, of the sacking of Rome. We are familiar with the exploits of Alexander, Hannibal and Genghis Khan and with the campaigns of Caesar and Napoleon. These have been pointed out by some as barbaric rampages and by others as glorious victories.

However, out of pillage and devastation, these conquerors did leave ruins to be cherished or rebuilt. In many cases, the victor brought a new culture, a rebuilding upon the ruins of the old. In others, the sacked cities accumulated the dust of time and vanished under the earth. Out of all this, the archaeologists and historians have brought down to us the story of the past: a story of the rise and fall of cultures, of the appearance and disappearance of peoples. These ancient, impassioned destructions were born out of hate, or lust for power, or for the greater glory of man before God, or even for the greater glory of God Himself.

Today our destruction is more bizarre. We employ no childish battering ram, hot oil or blunt bludgeon. We do not cross the plains by horse nor the mountains by elephant. We suffer no hate, no victory, no cultural trepidations.

Now we move at an ever-increasing tempo. Paths that were followed by countless generations of men are no longer wide enough for the pace generated in the matter of a few years. Bulldozers and carryalls remake the surface of the earth, and across and over it we move with terrifying speeds by automobiles and busses, fast trains and freights and airplanes. With a new but obviously imperious attitude, we push out beyond our boundaries with ruthless abandon, feeling that whatever we do is inevitable.

"Abruptly, everything seems to be in the way of progress. Or is it the arterial, the highway or the factory that is in the way? They could be."

In the past, the processes of the world moved in cadences sometimes rythmic, at other times eruptive, but apparently always in a direction that could be measured and evaluated. Suddenly these processes have accelerated a millionfold. Now we seem to be on the threshold of deciphering the secrets of nature itself. We stand at a crossroad akin to what the phalanx was to ancient warfare, or the use of gunpowder to the Byzantine emperors.

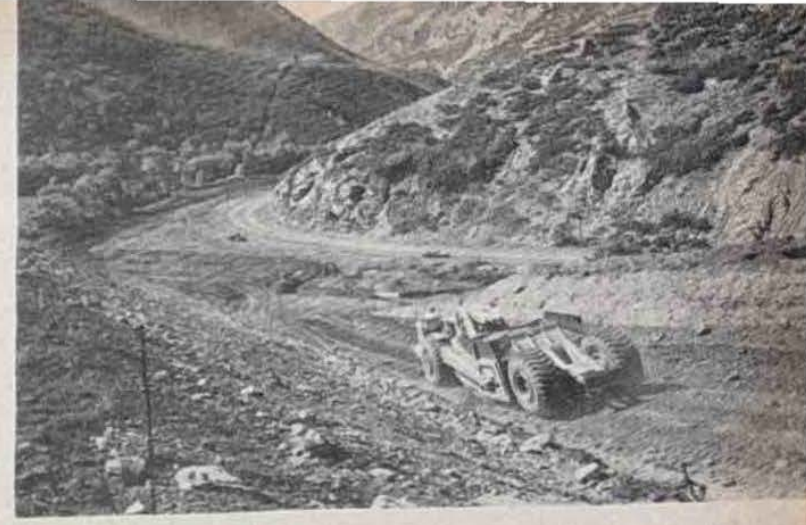
Apart from our concern about atomic bombs—of the big blast that may terminate our stay on earth—we should consider what we are doing to our towns and cities and our precious countryside. However annihilating the atomic blast, pavement can destroy our heritage from the past and our promise for the future just as certainly. We are now in peril of losing our historical and architectural inheritance. It behooves us to face the fact we must differentiate between progress and exploitation as we plow up everything before us.

We are proud of our ability to develop and to build and to solve very difficult problems. We legislate for urban renewal, we speak of redevelopment, of slum clearance, of the movement and funneling of traffic, of industrial parks. We find our cities objectionable for work so we move our factories to the country, surround them with housing, parking lots, railroad spurs, water tanks and wires. Gone are the citrus groves and the vineyards, asphalted and cemented over are the fertile fields, harrassed and despoiled are the historic towns and villages. Suburbia, which never escapes from the city, finds the free life by digging for foundations, for water, for power, for sewers and for roads in a form of escape—escape, one wonders, from what?

Going, if not gone, is a way of life and a culture that spoke of the dignity of man, of thrift, of accomplishment and of reward for work well done. Uprooted are the trails of the missionary padres, of the Pilgrim Fathers. Byways and courses that served this country since colonial times are bypassed, crossed over, leveled to make

"Bulldozers and carryalls remake the surface of the earth, and across and over it we move with terrifying speeds by automobiles and busses, fast trains and freights and airplanes."





way for horizontal blight and economic poor judgment.

Our country is rich in historic places, both in towns and countryside. We are rich in an architectural heritage of houses large and small, plantation mansions and town houses, churches and town halls. The beauty of their architecture is impregnated with the spirit of men and women who were and are America. These places have stood since the founding of the country, some beyond into Indian origin.

Abruptly, everything seems to be in the way of progress. Or is it the arterial, the highway or the factory that is in the way? They could be. It's worth thinking about. If we demolish our architectural heritage merely because it is in the way of the highway, the arterial, the supermarket or the superservice station, we are the losers. The intruders may contribute to our immediate needs, but leave us impoverished in the end.

It would be safe to say that our architecture is the very epitome of what America stands for. It, almost alone, expresses our way of life and stands as a symbol of what we are doing. More than any other manifestation, it indicates living standards, social customs and economic techniques. We might be so brash as to say that if we destroy architecture, we destroy the record. When architecture is without culture, the people are without culture.

There is a tendency among us and among our younger generation to write off all that has been done in the past. This is wrong. It is not to our credit and most certainly is not our prerogative. We are disinclined to take the matter of preservation seriously and, in the flush of economic aggrandizement of the last few years, we have lost a sense of values.

Conceivably, through concerted and intelligent thought, we should be able to figure out how to save the old while building the new. Somehow, instead of creating an ever-increasing conglomeration, we should be able to build the most magnificent environment of all time.

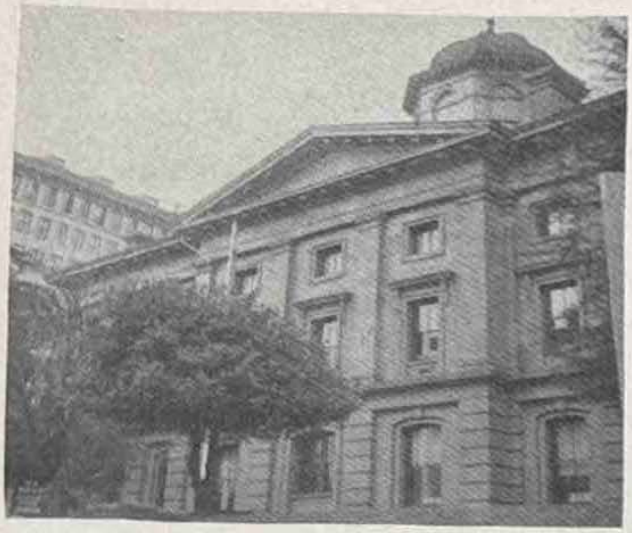
Think of the elegant town houses that were built along New York's Fifth Avenue that since have been destroyed, leaving St. Patrick's Cathedral and St. Thomas' Church surrounded by strange giants. One could say this was necessary if we did not witness the present shift of office buildings to Park Avenue and the construction of the United Nations Building on the East River. Possibly had the builders looked to the dilapidated areas of the East Side in the first place, we might now have the town houses and the skyscrapers too.

Preservation means "to take care of—make lasting." But first, before we get carried away with the idea, let us consider what is worth preserving in architecture. We do not speak of row upon row of slums and dark alleys or of the brick piles built during the turn of the century; antiquity in itself does not give reason to cherish a building or a group of buildings. Naturally, we must be discriminating when we speak of the preservation of historic buildings.

As Americans, we look to a building's worth in the light of the part it played in our historic development. As architects, we look at buildings in the light of their architectural importance and to what extent they contribute to the background and progress of architecture. We want to preserve both types where possible. When a building possesses a combination of historic and architectural qualities it becomes in our eyes singularly important. In fact, without it we lose

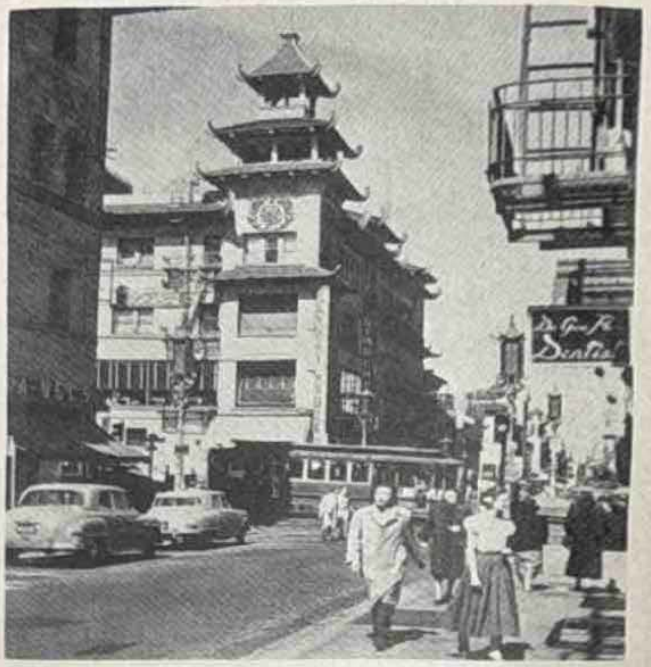


"Suburbia, which never escapes from the city, finds the free life by digging for foundations, for water, for power, for sewers and for roads in a form of escape—escape, one wonders, from what?"



"We must begin to look with more sympathy upon the desires of some citizens to preserve historic Boston, our national Capitol in Washington, the old Patent Office designed by Robert Mills, Portland's Post Office (above) and other buildings now threatened."

"We can be sure that historic towns, and even sections of towns, such as Olvera Street in Los Angeles, San Francisco's Chinatown and New York's Greenwich Village, have their own economic values."



our tangible evidence of continuity and inheritance.

When we speak of preservation, we may also include restoration or renovation. We must realize the difference between preservation and modernization. Modernizing alters the physical appearance and shape. So-called "modernizing" seldom contributes to a subject's historic worth but most often destroys its value as such. When we update a structure, we must do it intelligently with an eye to accomplishing our purpose without destroying its intrinsic qualities.

We must begin to look with more symphathy upon the desires of some citizens to preserve historic Boston, our national Capitol in Washington, the old Patent Office designed by Robert Mills, Portland's Post Office, and other buildings now threatened. We must give support to those who would preserve and restore old Georgetown. When highway engineers and others propose to demolish historic plantation houses such as Delord Sarpy in New Orleans, we should ask why and insist that bridge and highways be routed to respect such places.

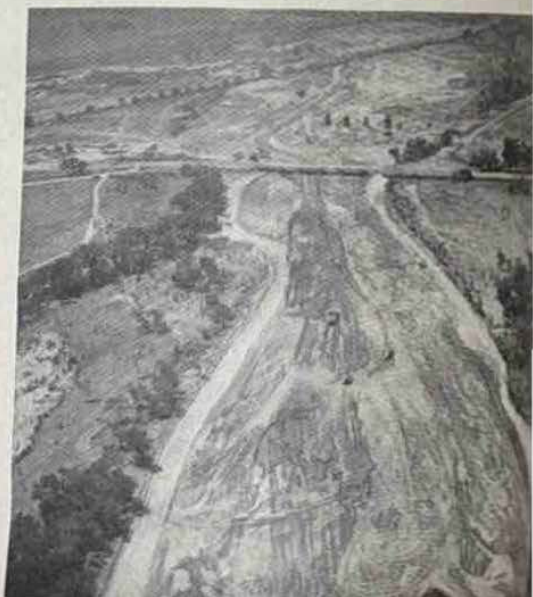
We know in order to maintain a building or place in its historic appearance, we must also give some thought to its surroundings. For instance, let us ask ourselves what would the Cathedrals of Ulm or Chartres be without the town square and the medieval buildings in juxtaposition to them. Would they, preserved alone, engulfed by commercial structures, maintain their integrity or time sequence? Obviously not. Would the world be richer without them?

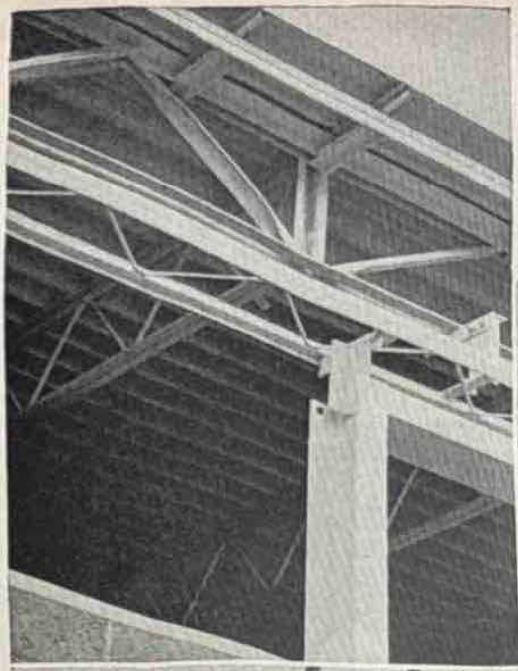
Picture any of the great structures of history under the same circumstances—the Pyramids, the Temples of Luxor, the Taj Mahal—surrounded by the parking lot, the used-car lot, the gas station, the drive-in cleaner, the hamburger drive-in and the animated billboard. Would it be asking too much to keep these dire necessities a half mile away? If these examples are too distant, too European or foreign, let us ask ourselves and consider would New Orleans be richer

Continued on p. 41



"Our greatness will be measured in how we meet progress' dilemma—the problem of preservation and exploitation—and how we cope with the apathetic and irresistable forces of destruction which, strangely enough, move through construction."





If You Have a Large Warehouse To Design and Early Occupancy and Cost Are Important Factors..







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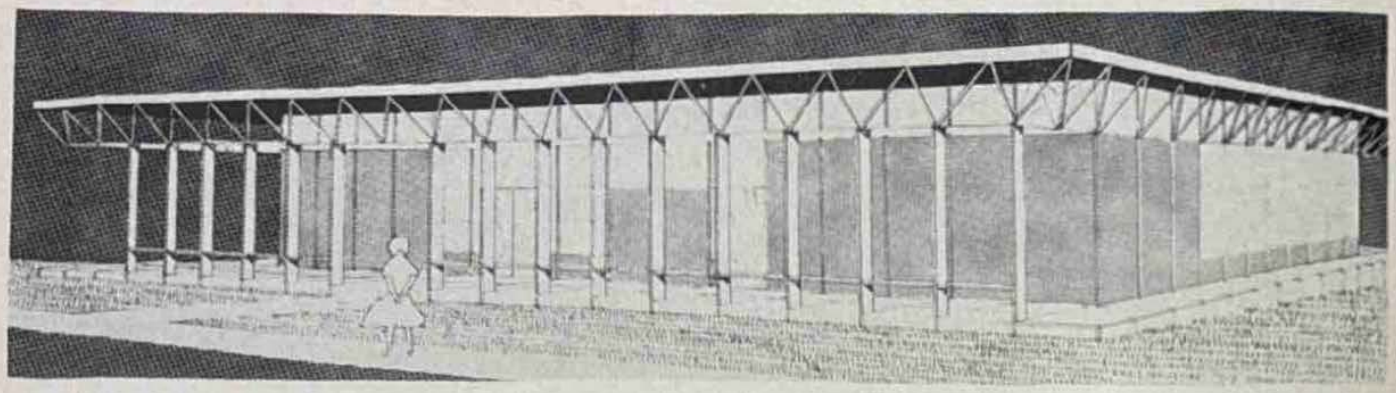
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TWO-CLASSROOM LABORATORY on which construction begins this month at Washington State College will serve as clearing house for school construction data. Designed on demountable space frame theory, structure will "float" above ground.

Steel frame project to bolster school research in Northwest

SOME NEW WRINKLES in school planning may be uncovered when a two-classroom experimental classroom building gets under construction this month on the Washington State College campus in Pullman. The 45-x65-ft. steel frame structure is being developed to:

- Experiment with and conduct research on the use of materials, methods and equipment that may be used in school design, construction, maintenance and operation.
- Experiment with various types of lighting systems, both daylighting and electrical, for different conditions of classroom use.
- Study classroom uses and their effect on shape, size proportion, color, lighting, acoustics and environment control; and study room arrangements for different uses with new types of furniture.

Known officially as the Washington State Regional School Laboratory, the building will "float" above the ground, with no permanent foundation other than precast concrete footings, 4 in. high by 18 in. square, on a gravel base. And since it is to be built on the demountable space frame theory, the structure with a relatively small amount of work can be expanded, contracted, moved externally and altered internally as needs of space and design may change.

Thus the research project is designed to sit on one steel space frame, while its roof rests on another. Variable in any direction by units four feet square, the basic structural elements are considered to be "100% adjustable and 100% reusable" through the device of a patented spring nut with rounded edges which can be placed anywhere along the continuous slot of the steel channels provided. All parts are put together without drilling and welding.

The building will include a lobby, washrooms and storage area in addition to the two classrooms. It will be elevated on a 70x80-ft. base platform to make possible the later extension or contraction of the classroom portion.

Unistrut Corp., headed by president Charles Attwood and an architect in his own right, is the originator of the construction method used at WSC. The company's interest in developing school building procedures led to a gift of materials to the University of Michigan in 1954 and the resulting project has been in use since the summer of that year for staff offices and research and display conducted by the department of architecture.

A public school in service now using the Unistrut space frame system houses 120 students in Wayne, Mich., the company's home town. School directors there have ordered two more such adjustable schools, each individually designed for specific sites and educational requirements.

Robert P. Darlington, assistant professor in the department of architectural engineering at WSC, has been freed half time from his teaching duties to direct the project. Students from the sophomore level up will have the option of assisting with erection of the laboratory near the cooperating School of Education for which they will earn class credits.

In preparation for actual construction, the precast concrete footings were readied indoors during the winter, with the aid of commercially available cardboard molds.

WSC officials have made it crystal clear that there is no actual or implied endorsement by the college of any materials, equipment or structural systems involved in the project. Primary effort will be made to develop and utilize Northwest products.

Darlington points out that although some consideration must be given to the first-come, first-served approach, careful selection will be exercised to make gifts fit into the reasearch program so that the building will in no way become a monstrosity.

Among a number of individuals and companies who are contributing toward the project is Dr. Robert Boyd, research physicist who has spearheaded school daylighting tests at the University of Michigan (see PA&B for June 1956). He is working through Kimble Glass Products Co. to suggest locations and uses for glass blocks.

The college believes, as Darlington expresses it, that "excellent school design is being done cooperatively by the Northwest's educators and architects." The purpose of the project then is not to replace school building or other architects nor to furnish architectural design assistance; but rather to develop and make available information on materials, equipment and other items that can be used in school design, construction, maintenance and operation.

Darlington is looking past the coming season of construction toward the opportunities for maintenance studies. Part of his recently completed master's degree work at the University of Illinois was in this area and may be developed into a forthcoming WSC publication in its school series.

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UNITED STATES STEEL

Are you getting your share of cost-plus contracts?

by GLENN M. CANADAY

THE AVERAGE building job is awarded on a competitive bid basis; yet it often could be negotiated as a cost-plus or fixed-fee job by a contractor who is on the ball. If you're not getting your share of cost-plus jobs you haven't sold yourself on the positive advantages of this method of contracting for construction.

Cost-plus and fixed-fee agreements are generally accepted as the best methods of awarding remodeling and repair jobs, jobs where time does not allow for completing plans or letting bids, jobs with incalculable difficulties and jobs where highest quality is of utmost importance. Cost-plus is also advantageous on run-of-the-mill jobs.

Cost-plus offers the owner many savings and advantages not available to him under lump-sum competitive bid contracts. Among these are the services of a highly paid organization of construction cost experts: no other group knows construction costs as well; no group can advise with more authority on the comparative costs of various materials in place nor more competently aid the designer in selecting the exact material-equipment-labor combination which will produce the desired result at lowest possible cost.

The contractor, to be effective and of most service, must work with the architect on comparative design and construction details from the inception of the building. When plans and specifications are already completed, major opportunities to effect economies are gone.

Nearly every building is built around a price. The owner knows what he requires and has a price range in mind. Estimates made by the architect and contractor after the first preliminary sketches should point the way to ultimate cost and design. Preliminary estimates must be accurate; and they can be if the contractor has a clear conception of the proposed structure and the d sired details.

The owner should realize that co struction, like merchandise, comes several price ranges. A Cadillac ca be had for the price of a Chevrol but a good architect-contractor tea may be able to produce a Pontia Both contractor and architect mu have the complete confidence of th owner if they are to predict cos with a reasonable degree of accurac There is a tendency for the contract to base his preliminary estimate minimum construction and the sim lest of details to make the price loo attractive; owners and architects ma ask for inexpensive details in th preliminary estimate and later insi upon expensive treatment. This r sults in distrust and contention. Th thinking of owner, architect and co tractor must be in harmony befo the job is started.

Recognition and observance of few production principles can much to control production costs. Th most cost-favorable architectural a structural details compatible with t required appearance and utility c best be established by the archite and contractor working togethe Climate, site and foundation cond tions, labor rates, material price availability of the various types labor material, building regulatio and other local conditions do not a fect different designs and methods construction in like degree. It do not follow that because a type construction is economical in one l cality it is economical in anothe The rates and supply of labor a material items vary widely betwe areas. Choosing the right combinati of material and labor for the parti ular locality and conditions involv can result in considerable savings.

The length of time required to co plete a job influences cost. The rig combination of materials will redu the number of operations on a jo resulting in shorter construction tim Design that requires the services many crafts complicates productio coordination and lengthens the co struction period. Material items th are not readily available may al delay progress.

Cost is not an absolute measure value. High cost does not necessaril indicate superior construction, n does low cost always result in lo quality. Money can be wasted on ex



architect:
STEWART & RICHARDSON

contractor:
K. T. HENDERSON

Chehalis Buff Roman Brick

. . . adds warmth, color, durability to the clean, functional design of this new Elementary School at Toledo, Washington.

More and more architects are specifying the Northwest's most distinctive brick—Chehalis Brick—for school construction. Chehalis Brick combines the appealing colors and textures that are typical of the area with all the natural advantages of brick: attractive design, permanence, and fire-safety—plus long-range economy and lower maintenance costs.

SCPI

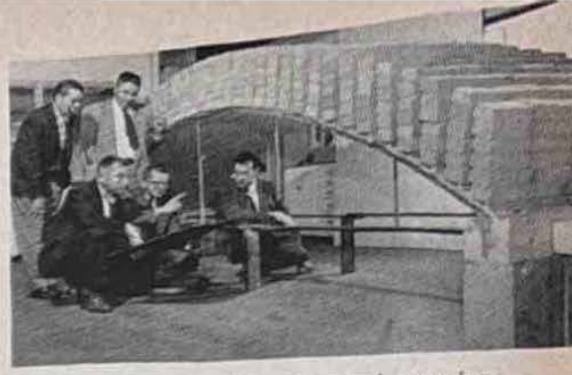
CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

pensive but useless details, poor choice of materials, inefficient production and a hundred other items. Underdesign can be as costly as overdesign. The building constructed for the bottom dollar can prove progressively expensive, for exhorbitant heating, lighting, cleaning, painting and air conditioning bills are often the result of ill-considered design and construction.

Getting the utmost in value for the dollar spent is not easy to achieve but streamlined construction methods, competent design and engineering and a wise choice of details and materials will reduce costs without sacrificing quality or value. The contractor with his unequaled knowledge in the fields of costs, production and scheduling has much to offer the owner who is planning the construction of a building.

Properly handled, the cost-plus or fixed-fee job is highly satisfactory to both owner and contractor. The owner gets the most possible for his investment; the contractor receives a reasonable and safe profit in the final analysis.



ARCHITECT PRICE points to panel carrying 7,500 psf., some four times design load. Deflection is only 0.38 in.

Structural engineers meet (Cont'd from p. 25)

tures," with Robert Van Epps and Alfred Parme, both of the Chicago office of the Portland Cement Association, presenting papers. Van Epps traced the history of the development of the ultimate strength design theory and Parme emphasized similarity in dimensions between ultimate strength design and elastic design in final results.

In closing sessions, William L. Shannon of Shannon & Wilson, Seattle, talking on "Compacted Fill for Structure Foundations," said that often a properly compacted fill is both superior and more economical than other methods of improving natural foundation conditions. And Dr. William Enkeboll, resident partner of Dames & Moore, Seattle, showed how settlements could be predicted with sufficient accuracy in many cases to give proper designs, particularly in rigid frame structures.

Success of the gathering, which drew 70 engineers to Pullman, has prompted plans for an annual meeting, according to Loren B. Almy, professor of civil engineering at WSC and arrangements chairman.

School gym features new plywood vault

A fir plywood arched sandwich panel which will easily bear weights up to four times the design load are being used for construction of a Tacoma junior high school. The architect, Robert Billsbrough Price, AIA, calls the arch a "stressed skin panel vault."

The unit consists of two scarf-jointed plywood panels just over 17 ft. long and 4 ft. wide, bonded together with an impregnated honeycomb paper core between them. The top skin of the vault is 5/16-in. fir plywood and a ¼-in. bottom skin forms the ceiling.

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.

Concealed wiring, built-in outlets, color telephones, kitchen and bedroom phones — these are features your buyers look for! Leading architects and builders include some or all of these in every new home. They know how much telephone planning adds to the value of a home . . . that it makes for better-built homes and satisfied buyers.

Pacific Telephone

We'll be glad to help you plan built-in telephone facilities. Just call our business office and ask for our free Architects & Builders Service.

It pays to include Telephone Planning in every home you build!

Materials – Products – Tools

and the latest literature

LOAD CALCULATOR: Mitchell's combination pencil and load calculator determines heat load for residential air conditioners. It calculates temperature differential, square footage and tonnage for any given floor area from 750 to 2,500 sq. ft. At the pencil top is a window where the design conditions for the particular areas are permanently set, from 15 to 30 deg. F. The remainder of the pencil is comprised of red figures on an adjustable column indicating the air conditioner tonnage required, ranging from 1.5 to 5.4 tons.—Mitchell Manufacturing Co.

(Item No. 1)

BRICK SWIMMING POOL: Specifications have been developed for a prototype reinforced brick masonry swimming pool, designed to meet requirements of quality construction, yet remain within the price range of most budgets. Measuring 16x34 ft. and ranging in cost from $2,500 to $3,000, the pool offers structural strength, flexibility of design, low moisture and thermal expansion. — Pacific Northwest Brick and Tile Association.

(Item No. 2)

ACOUSTICAL TILE: To permit rapid and error-free application, Forestone acoustical tile now has t&g edges and



an extended flange for hidden nailing or stapling. Made of a woodfiber material fissured to resemble travertine 9/16-in. thick, the 12x24-in. tiles are center scored to simulate 12x12-in. units.—Simpson Logging Co.

(Item No. 3)

BATHROOM FIXTURES: Crane's Crestmont line of enameled steel bathroom fixtures includes six types of bathtubes, five style of lavatories and twelve different models of kitchen sinks Offered in vitreous china, Duraclay, enameled cast iron and enameled steel. the fixtures are available in white and six other colors—French gray, pale jade, shell pink, sky blue and sun tan. Five of the tubs have aprons designed by Henry Dreyfuss.—Crane Co.

(Item No. 4)



ROUND TABLE: Ideal for institutional use, a Knoll round table by Isamu Noguchi employs a column of steel wire set on a caste iron base with black porcelain finish. Light, airy and strong, this column replaces the usual heavy black column and base found on restaurant tables. The table, which comes in two sizes—one seating three persons, the other four to six—, is made of burn- and stain-resistant white plastic laminate. Edges are beveled giving the table an even lighter appearance.—Knoll Associates, Inc.

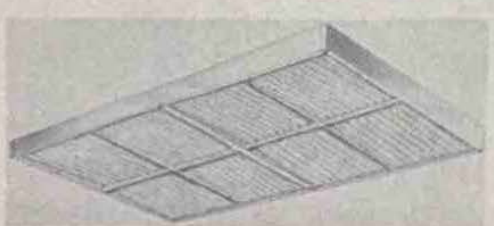
(Item No. 5)

SEALING COMPOUND: Sonolastic sealing compound is a synthetic rubber caulking and sealing compound developed to meet the needs of today's increasingly popular curtain and panel wall construction. It is furnished with an activating agent which cures the liquid to a rubberlike substance after it is introduced to the joint to be sealed. The compound thus becomes a resilient part of the joint structure for the life of the building. Tests show that beads about ⅜-in. deep can be stretched to four times their width without damage to adhesion or continuity.—L. Sonneborn Sons, Inc.

(Item No. 6)

LIGHTING: A prism pattern of concave shaped lens set in the Spacelighter housing for the first time has been applied to 24-in. square modules, permitting the use of 250 ft.,-candles with no visual discomfort. The fixture is directed toward the field of institutional lighting, especially in such areas as computer and drafting rooms where plenty of illumination is necessary.—Leadlight Fixture Co.

(Item No. 7)



CEDAR SHAKE PANELS: Having an ease of application that reportedly cuts labor costs up to 65%, Olympic Quik-Fit panels consist of machine-grooved red cedar shakes bonded to cedar shingle undercoursing. The double-coursing and tight bonding with a veneer strip produces a dead air space as an added insulation feature. Production of the panels includes prestaining by Olympic in eight colors which are most in demand and most durable, as determined by a survey of architects and builders.—Olympic Stained Products Co.

(Item No. 8)

INVISIBLE DOOR: Sulzer has produced a door that cannot be seen by the naked eye because it is made of thin air, yet under all types of weather conditions, even the most adverse, is said to give unobstructed access from the street while fully insulating the interior. The Doorless door, first introduced in Switzerland in 1952, is an invisible screen of air which moves slowly downward, sealing the entrance against the outside. It stabilizes a difference in pressure between the inside and out created by the so-called chimney effect and the wind pressure. Since doors are required to lock at night, they can be installed at the outside of the air curtain, inside of the floor grating or anywhere in between if desired.—Sulzer Bros.

(Item No. 9)

WALL TILE: Pomona has used a triple-glaze process in embedding varicolored crystals — red, blue, green, amber — in a gold background which is fired onto its ceramic tile. The Jewel series is manufactured in standard 4¼x4¼-in. and 6x6in. sizes for use in various rooms of the home.—Pomona Tile Co.

(Item No. 10)

JOINT FASTENER: The Tite-joint fastener for assembling wood panels, laminated sink tops, counters and other wood installations where a tight, flush joint is required has been improved for even easier use with a new bolt. The fastener distributes clamping pressure uniformly over the entire mating surfaces and since the mating pieces are drawn together internally, there is no twisting, no buckling. Nothing extends above the joint to prevent a close fit to other surfaces.—E. L. Cederquis Co.

(Item No. 11)

FORCED AIR FURNACES: Referred to as the "first new idea in central heating since the advent of forced air,"

Holly's 1957 line of forced air furnaces are designed specifically to be part of an all-year air conditioning system. Each model is planned to meet the requirements of the job whether for straight heating, for use as a combination heating and cooling air conditioner or for the addition of cooling at a later date. Four models, from 70,000 through 100,000 Btu., use the same size plenum and the latter is only 16 in. wide and 58½ in. high.—Holly-General Co.

(Item No. 12)

Latest Handbooks, Manuals and Literature

Yours for the Asking

HI-FI REPRODUCTION: The casual approach used by most architects to the problem of reproducing original music is comparable with providing a broom closet in a church for installing a four-manual pipe organ, so one manufacturer believes. In attempting to explain some of the fundamental facts of life about high fidelity sound reproduction, Klipsch has produced a 16-page booklet devoted to its corner horn loudspeaker system, based on the principle of mirror images which employ reflections of sounds from the walls and floor or ceiling of a corner. —Klipsch & Associates.

(Item No. 13)

WOOD TREATMENT: A pocket-size handbook of specifications for pressure treatment of woods has been designed for architects, engineers, builders and others in the West. It marks the first time a handbook devoted to western woods has been issued in the pressure treating field.—American Wood Preservers' Institute.

(Item No. 14)

METAL LATH: The 1957 edition of "Specifications for Metal Lathing and Furring" covers such phases as solid and hollow partitions; wall furring; metal lath attached directly to wood suports; contact, furred and suspended ceilings; beam and column protection for fireproofing; and reinforcing for exterior stucco. One of the 20 pages is devoted to fire-resistive ratings and descriptions of construction depicting the protection of structural steel members and assemblies. Various spans and spacings for supporting metal lath and plaster ceilings have been summarized in descriptive tables. —Metal Lath Manufacturing Association.

(Item No. 15)

TEMPERATURE CONTROLS: How to automatically control building temperatures from outdoors is described in a four-page brochure, including a simple chart which recommends the type of weather control to be used under varying conditions. Descriptions and specifications of both the Weather-Man and Weather-Chron regulators round out the booklet.—Automatic Devices Co., Inc.

(Item No. 16)

PROTECTIVE COATINGS: Architects and construction engineers will find some pointers on how to lick industrial corrosion problems and how to permanently weatherseal all types of building materials in a 12-page reference folder with tab indexes. Features, functions, performance and instructions for application of DEL products are outlined and examples of on-the-job results are shown.—David E. Long Corp.

(Item No. 17)

SCHOOL CABINETS: The first in a series of brochures dealing exclusively with architectural woodwork in school cabinets is devoted to the under-window type and is intended to provide the designer with practical information which will simplify his drafting problems. Details and elevation drawings of typical installations throughout the United States and Canada should make it possible for any architect, with modifications, to create a suitable design for this type of cabinet.—Architectural Woodwork Institute.

(Item No. 18)

GRATING AND TREADS: Descriptions on electroforged, riveted, rectangular, diagonal, U-type and T-interlocked grating and treads make up a 26-page catalog, along with tables on safe loads and data necessary to specify.—Blaw-Knox Co.

(Item No. 19)

WALL-HUNG CLOSET: Specifications and installation instructions for the reportedly first wall-hung closet for residential use are found in a four-page brochure. The reverse trap bowl and concealed tank combination can be installed in any 6-in. wall and requires neither the expense of special floor construction nor the conventional chair carrier. Providing savings of from 6 to 9 in. space through the elimination of the tank from the bath or powder room, the compact bowl is easy to clean. Both bowls and access panels are available in white and six pastel colors. — Ingersoll-Humphryes Division, Borg-Warner Corp.

(Item No. 20)

ROOF DECKING: The fundamental qualities of Tectum, a multipurpose material used for roof decking, for suspended acoustical ceilings, for wall insulation and as form board for poured concrete floors and roofs, is concisely described in 16 pages of illustrations and drawings. The product is shown as used in a half dozen projects, along with specifications and design details. — Tectum Division, Peoples Research and Manufacturing Co.

(Item No. 21)

SCHOOL HEATING, VENTILATING: The components and operating principles of a new concept in classroom



heating and ventilating are explained in detail in a 24-page booklet. The Lennox Comfort Curtain system is incorporated in a two-classroom laboratory, shown above, designed by R. C. Ovresat, AIA, with Perkins & Will, consulting architects, and constructed in Des Moines, Iowa. Heart of the system is the air processing unit installed in each room which contains the blowers, air filters, dampers and controls, holding temperatures within 1 deg. of the thermostat setting, according to engineering tests. Air processing unit and shelf or wall ducts are made of 16-gauge furniture steel, enameled in a mar-resistant finish of biege.—Lennox Industries, Inc.

(Item No. 22)

READER SERVICE

Pacific Architect and Builder
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Please send the literature or data about the material, products and tools liste on these pages.

APRIL 1957

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PA&B
T-square talk

NEW OFFICES: Thomas A. Hayes has opened an office for the practice of architecture at 1442 Lincoln St., Oroville, Calif. (LEnox 3-6145).

Tacoma architect A. E. Jensen, formerly a partner in the firm of Jensen & Mills, is maintaining his own practice at 252 Broadway. E. F. Mills continues to operate his office at 308 S. Tacoma.

The San Francisco architectural firm of Frank W. Trabucco, architect, and Lewis H. Hurlbut has been dissolved and Trabucco will continue to practice under his own name at 355 Stockton St. He was associated for many years with Frank T. Georgeson & Associates of San Francisco and Eureka.

MERGER: Karl F. Tuttle Engineering Co. has merged with the office of Harold Field Kellogg, AIA of Pasadena to form Tuttle-Kellogg Architectural and Engineering Co. The Tuttle firm operates offices in Arcadia, San Diego and Temple City, Calif.; Anchorage and Fairbanks, Alaska; and Washington, D. C. Kellogg has maintained offices in the East and was one of two architects who laid out Fairless Hills, Pa., for United States Steel Co.

NEW PARTNERS: William Ostheimer of Helena, Mont., has a new partner and the firm is now known as Wm. Ostheimer & N. J. Campeau, architects. A native of Butte, Campeau is a graduate of Montana State College and was formerly with the Kalispell architectural firm of Brink & Lennon.

NEW ASSOCIATES: Charles E. Morgan, for the past two years a member of Blaine McCool & Associates, has become an associate of the Seattle architectural firm. Following his graduation from the University of Washington in 1953, he spent a year studying architecture in Europe.

In Honolulu George V. Whisenand, AIA, has been made an associate of the architectural firm of Wimberly & Cook. He was previously chief underwriter in the Hawaii office of the FHA, a post he resigned last February after seven years. Before coming to the islands in 1950, Whisenand was associated with a number of projects in southern California, including Kaiser Community Homes for which he was chief engineer.

DIED: Graham B. Smith, AIA, Euge architect for more than 30 yea passed away March 10 at the age 60. A native of Indiana, he attend the University of Oregon and start practice in partnership with Joh Hunsaker, one of Eugene's early arch tects. Among projects he design was Eugene's present high school an the Register-Guard Building.

Donald Woodhouse Bagley Jr., 7 charter member of the San Francis Architectural Club, died March 20 a heart attack in his office.

Seattle architect Earl Franci Montgomery, supervisor for the offic of John W. Maloney, died March 2 at the age of 58. He was born i Indiana, attended Wabash Colleg and the University of Washington an came to Seattle in the early 1920s.

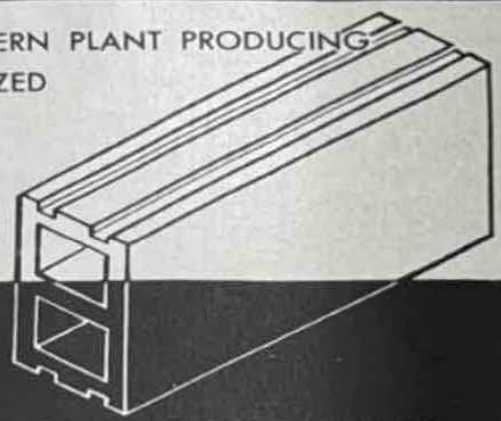
Franklin Don Riha, 60, architec who designed numerous buildings fo the Miracle Mile along Wilshir Boulevard in Los Angeles, died i that city February 27.

ON THE MOVE: Architects Frank I Shell and Charles Hoyt are no sharing office space at 4444 S.W. Co bett Ave., Portland.

Seattle architect Alfred F. Simon son is now located at 11728 Auror Ave. (EMerson 0642).

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West Coast AIA chapters celebrate the first 100

While the AIA centennial celebration will reach its climax at the annual convention in Washington, D. C., next month, chapters across the land have been honoring the institute's 100th birthday in their own way.

Perhaps the most elaborate of these occasions thus far took place March 9 in San Francisco where 550 persons, including a large number of local and state governmental officials, gathered in the Garden Court of the Sheraton Palace Hotel to witness the 1957 Honor Awards program (see p. 9 for photos of top-winning projects). Five chapters in the northern half of the state co-sponsored the competition. C. M. Deasy, president of the Southern California chapter, was chairman of the affair, which for the first time was opened to the public.

In Honolulu, Hawaii's chapter sponsored a month-long celebration, opening with its annual dinner and presentation of Honor Awards (to be featured in a later issue of PA&B). Austin Faricy, instructor of philosophy and semantics at the University of Hawaii College of General Studies, told the some 200 architects and guests about the findings of research relating to people and architecture in a talk entitled "Club, Barracks and the Cloister."

New officers installed at the annual dinner by AIA regional director Donald Beach Kirby are Richard N. Dennis, president; Howard L. Cook, vice president; Douglas W. Freeth, secretary; Frank Slavsky, treasurer.

A second speaker was Fred Hauserman, national president of Producers' Council, who came from the mainland with past president E. C. Spratt to present an operating charter to the Hawaii group. Other activities of the February centennial, headed by Alfred Preis, were a series of free lectures on architecture at the university, an exhibit of local architectural achievements and a reception at the Honolulu Academy of Arts.

Here is a roundup of what other chapters have reported to PA&B regarding their birthday observances:

Washington State: A dinner in Seattle's Olympic Hotel February 23, with president James C. Chiarelli presiding. Philip C. Johnson of New Canaan, Conn., presented his "expose" of "One Hundred Years, Frank Lloyd Wright and Us." (A digest of his remarks appeared in PA&B for March.)

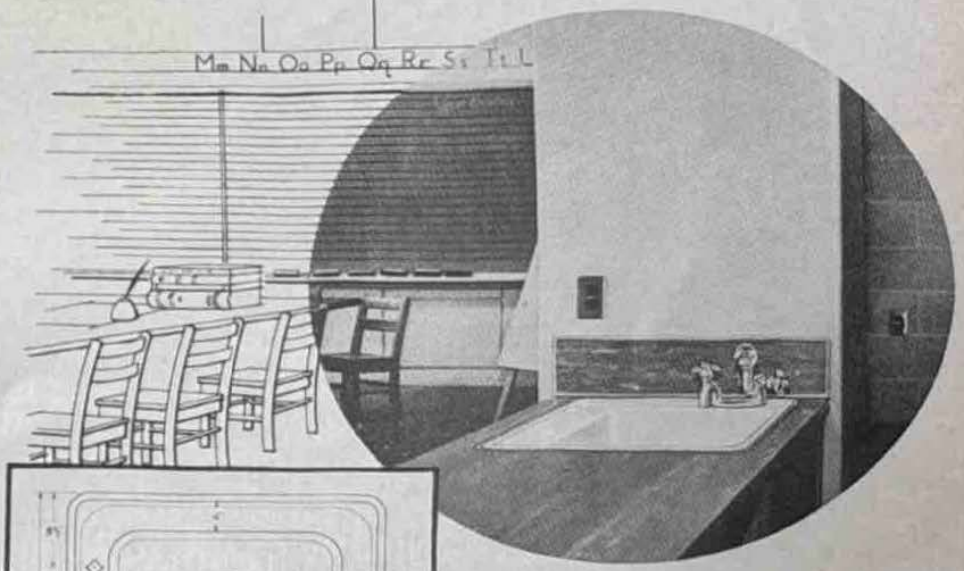
Southwest Washington: A dinner at the University-Union Club in Tacoma February 20, with AGC president Lewis Jones presiding. The head of the College of Puget Sound, Dr. R. Franklin Thompson, in discussing the future of the profession and its relationship to the country and the world, pointed out that the atom bomb has come as a psychological negation and that architects must face the challenge of the birth pangs of a new age—a building renaissance, as he called it.

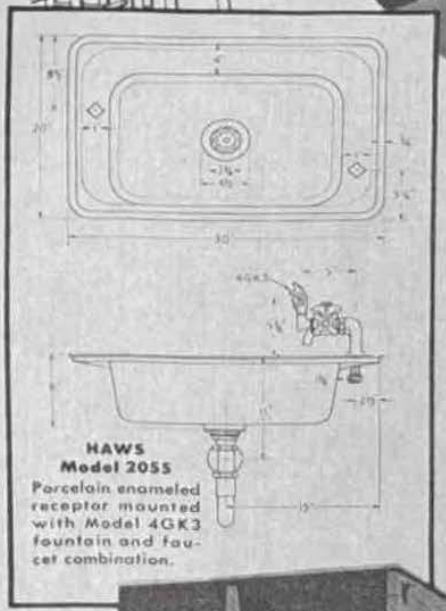
Spokane: A dinner-dance in the Davenport Hotel February 16, with architect Richard Eddy presiding. Frank Emery Cox of Berkeley, Calif., sales and business analyst with Kawneer Co., told his listeners that they were charged with conceiving ideas of rehabilitation of down-graded properties and areas and stressed the need of integrated urban planning, including perimeter cities.

Idaho: A dinner at the Owhyee Hotel in Boise February 23. Theodore Pritchard, dean of the School of Architecture, University of Idaho, by the use of colored slides, explained the progress of architecture during the past 100 years.

San Diego: A dinner in El Cortez Hotel February 21 with past president Frank L. Hope presiding. AIA regional director Donald Beach Kirby of San Francisco declared that in facing the nuclear age, architects will plan entire communities not just individual homes.

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PA&B Suppliers

• **Kaiser Gypsum Co., Inc.**, has promoted key men in three sales divisions. Pacific Northwest, covering Washington, Oregon, Idaho, western Montana and Alaska—Walter E. Lord Jr., division manager; Charles R. Watson, gypsum products manager. Northern California, northern Nevada, Utah, Wyoming and Colorado—Joseph M. Angelo, division manager; Sidney J. Smith, gypsum products manager; Richard C. Crowle, insulating products manager. Southern California, southern Nevada, Arizona, New Mexico and Texas—James J. Hague, division manager; Hugh G. Ferguson and Walter T. Smith, gypsum products managers; Galen M. Thomas, insulating board products manager.

Kaiser Gypsum and the Lumber and Sawmill Workers Union (AF of L) signed a long-term contract covering hourly production and maintenance workers at the firm's insulating board plant at St. Helen's Ore., early this year. Prior to the acquisition of the facilities by the firm last November, a strike had existed for 19 months. The new contract extends through May 1960.

PLAN SERVICE OPENED

The Home Builders Association of Greater Seattle has opened its Architects and Builders Plan Service at association headquarters, 170 Mercer St. E. E. Roman, committee chairman, comments, "These facilities are designed specifically to provide a service to the light construction industry in the fields of residential, multiple-family and commercial construction."

• **Universal Window Co.** of Berkeley, Calif., has opened an office in Los Angeles. James H. Gormley, formerly manager of Nelson Adams Co. of El Monte, Calif., has been named sales manager for the southern California district.

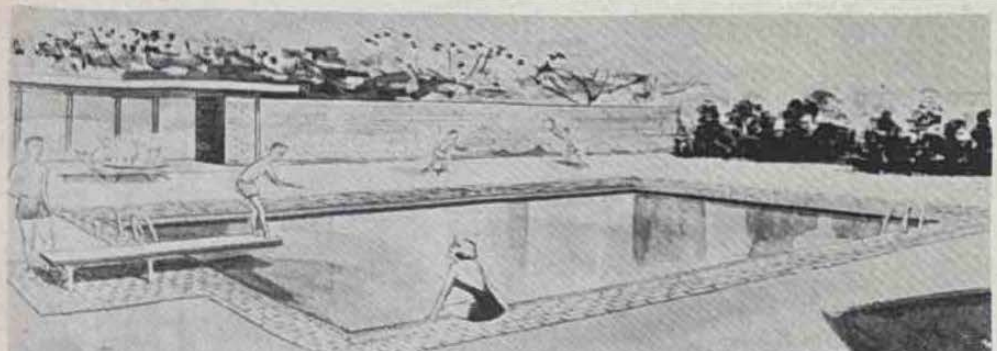
• **M. Greenberg's Sons** of San Francisco has a new sales manager, Martin R. (Mac) McLaughlin, previously vice president in charge of sales at Josam Manufacturing Co., Michigan City, Ind. He succeeds Elmer K. Ross, in charge of sales since 1938, who retired March 1.

• **Seattle Construction Council** is being headed in 1957 by Fred S. Nohmann of W. P. Fuller & Co. Other officers: P. F. DelMissier and Warren C. Brown, vice presidents; Paul Jacobsen, secretary; and Gordon Anderson, treasurer.

• **Georgia-Pacific Corp.** has appointed William H. Hunt as vice president in charge of plywood and specialty sales, with headquarters in Portland. He has relinquished his post as vice president in charge of sales and a director and member of the executive committee of United States Plywood Corp. with whom he has been associated for 22 years.

• **Superior Portland Cement, Inc.** and its plants in Seattle and Concrete, Wash., have been acquired by Lone Star Cement Corp., which now has 2 plants with a rated capacity of 47 million barrels. The Northwest facilities are being operated as the Superior Division.

• **Smoot-Holman Co.** of Inglewood, Calif., has appointed G. A. (Jake) Hochenauer as sales engineer, servicing the southern California area. He is currently chairman of the Southern California Section, Illuminating Engineering Society, and has spent the last 17 years in sales engineering work on the West Coast.



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Earthquake tests Bay area structures

Good design and modern construction methods proved themselves in San Francisco March 22 when that city suffered the heaviest earthquake since the disastrous 1906 upheaval. Damage was restricted to minor breaks and there were no deaths or serious injuries.

Starting with a comparatively mild tremble the morning of March 22, followed a few hours later by a quake of 5.5 intensity on the Richter scale, the San Andreas Fault rumbled and shook for a total of more than 300 quakes during a weekend which left residents ready to run whenever a heavy truck passed by.

Plumbers throughout the area went on an emergency basis over the weekend, during which they responded to more than 45,000 calls for broken or cracked gas and water lines.

The most violent shocks were felt in the southwest corner of San Francisco. Both the 1906 quake and that of March 22 apparently originated at the same spot, near Mussell Rock, just south of the city limits.

Coast and Geodetic Survey seismograph records indicated that the most recent quake followed the pattern of that of 1906, with the big exception related to design and construction—comparatively minor damage.

A big skyscraper on a mud fill near the San Francisco Embarcadero shook less than another building in the Civic Center, because the skyscraper rested on a man-made foundation of 150-ft. piles.

San Francisco's Westlake area, built by Henry Doelger on what used to be sand flats near the ocean, was the hardest hit by damage. Even here, however, there were very few homes which suffered more than $250 in damage.

One downtown structure known to weigh 15 million pounds has two heavy shock seismographs located in it. The March 22 tapes revealed that the base of the building moved a quarter-inch horizontally for about 20 seconds. The 16th floor moved a full inch for 30 seconds.

The State Building, of a different type construction and with a different foundation, moved a half inch horizontally.

The average San Francisco residence 25 ft. wide and 50 ft. deep has been estimated to weigh only 75,000 pounds, in contrast to the 15 million of the skyscraper. The home, however, where built on solid foundation, would move no more than the skyscraper.

Progress' dilemma (Cont'd from p. 30)

without the Vieux Carre; IS America profitting by the disfiguration of sacred places like Charleston and Savannah?

Possibly instead of destroying the cores of our historic and ancient towns and cities we should strive to shift our activities to establish new cores that are not handicapped by the physical aspects of old structures, narrow streets and limitations beyond our ability to cope with, short of complete demolition. We can be sure historic towns, and even sections of towns, such as Olvera Street in Los Angeles, San Francisco's Chinatown and New York's Greenwich Village, have their own economic values. Can anyone think of a good reason to exploit or modernize such isolated villages as Provincetown or Nantucket, or would it seem more intelligent to maintain and preserve them for the generations of the future so that they may not only read of their forbears but may as well share their environmental experience.

At its 83rd convention, the Ameri-

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can Institute of Architects recognized the acute problem that faces us in part, and by resolution declared its concern in genteel form as follows:

> WHEREAS, recent jeopardy to and disfigurement of certain historic American buildings of merit has recently occurred, arising from widespread and general ignorance of their cultural, architectural and historic value; and
>
> WHEREAS, such jeopardy, disfigurement and also destruction continues to threaten our architectural heritage; and
>
> WHEREAS, the architectural profession is peculiarly fitted and in duty bound to meet this menacing situation;
>
> THEREFORE, BE IT RESOLVED that the board of the American Institute of Architects initiate a nationwide educational campaign through its chapters, in order to protect our historic buildings, in advance of possible destruction and preserve them for posterity.

In cooperation with the National Trust for Historic Preservation and the Department of the Interior's National Park Service, the AIA has put into motion a preservation program under the sympathetic and forthright leadership of Earl Reed, FAIA. It has established an institute committee and has named preservation officers for each of its chapters.

We know buildings of historic significance privately owned are difficult to preserve unless their proprietors have a sense of responsibility. We know buildings publicly owned can be retained if the government agency in charge has an attitude to do so.

The works of l'Enfant, Strickland, Upjohn, Latrobe, Hunt, Renwick, Bulfinch, Richardson and countless other architects who contributed to our historicity should not be obliterated.

Further, we must consider more than just the preservation of buildings and places of long ago. We have within this century the much heralded Sullivan and such cultured gentlemen as Cram, Goodhue, McKim, Meade, White, Hobart, Cret and Saarinen, to mention the names of a few whose works, whether we agree with revivals and renaissance, are milestones in our progress.

As architects, we are dedicated to the purpose of building for the betterment of mankind. In building we must also preserve what is worthy and what is well done for in these are measureable economic, cultural and historical wealth. Through preservation we keep alive past epochs through visible form and association. Modes of life, culture and history are retained through material contact.

The passing of time which separates us from other generations enables us to see in retrospect the broad aspects of historical change. It provides us with a measuring stick to gauge our own development.

As architects, it is essential we maintain a broad outlook and that we no detach ourselves from our unique po sition in the scheme of things.

Architecture is a continuing proces and the works of such living archi tects as Frank Lloyd Wright, Mies van der Rohe, Gropius, Neutra and others will be our preservation problem of tomorrow. Let us not be too sure fu ture generations will not find these men old fashioned and out of date.

We must be aware of the continuity of architecture and that we are constantly producing structures of architectural significance. We can never go back to relive or reshape an era; new techniques are constantly changing the methods and modes of planning and construction. Each generation then must of necessity express its own character and seek to solve for it own needs and way of life. We wear the wig and silken breeches only to the costume ball: why should we try to apply the Georgian Pediment to 20th century processes?

We must be aware of the counterfeit. A copy seldom does credit to its counterpart. In fact, too often the copy detracts from the original. The original has authenticity in history whereas the imitation drifts in time without heritage.

What we destroy can never be replaced, only simulated. Our wealth lies in the tangible things we have and in our creative ability. That which we create today adds to the inheritance of tomorrow. It behooves us to proceed carefully and with concern for what we do, for the generations to come will be our historians. Let us hope they will not find the need to cast aside our works or criticize us for disregarding those of our predecessors. We hope that those who seem so eager to eliminate the past will be sufficiently conscientious not to be completely eliminated themselves. Let us not indulge in the contemporary aspect to the extent that we feel it is the beginning and the end.

When we speak of "improvement," we should ask ourselves "improvement over what?" It would seem a little hard to know where we are going if we do not know where we have been. Man has produced some tremendous architectural works. It would seem stupid to be satisfied with something less than what we had.

Our greatness will be meaured in how we meet progress' dilemma—the problem of preservation and exploitation—and how we cope with the apathetic and irresistible forces of destruction which, strangely enough, move through construction.

A paper presented at the 1956 national AIA convention in Los Angeles

Construction News Bulletin

Vol. 63—No. 8 (PA&B) News Section of Pacific Architect and Builder April 20, 1957

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OREGON

■ SUNRISE SCHOOL ADDITION— Albany, Ore.

Planholders announced for construction of the one-story 66'x80' Sunrise Grade School in Albany, on which bids will be opened 7:30 p. m., April 23, by Linn County School District No. 5, Central School Office, 336 W. 9th Ave., Albany. Plans with S. R. Haatvedt, architect, 118 W. 2nd Ave. (Box 84), Albany.

Planholders: George Millet, Jr., 330 Sunset Drive, Eugene; Cascade Contractors, Box 774, Eugene; Cutts Construction Co., Box 84, Lebanon; Starr Builders, 1765 S. Main, Lebanon; Thomas E. Gates & Son, 120 Oak, Lebanon; Hampton C. Platt, Box 27, Salem; Raymond Lillie, Box 222, Albany.

DW 4-16. Previous report 4-11

■ KNOX BUTTE SCHOOL ADDITION— Albany, Ore.

Planholders announced for construction of a one-classroom post and beam frame addition to the Knox Butte School, on which bids will be opened 8 p. m., April 25, by Knox Butte School District No. 19, Knox Butte Road, Albany. Plans with S. R. Haatvedt, architect, Box 84, Albany.

Planholders: Raymond Lillie, Box 222, Albany; Gene Foley, 2310 E. 9th, Albany; Clayton Potter, 838 W. 7th, Albany; Marvin Johnson, 1325 W. 8th, Albany; George Millet, Jr., 330 Sunset Drive, Eugene; Cascade Contractors, Box 774, Eugene; Starr Builders, 1765 S. Main, Lebanon; Cutts Construction Co., Box 84, Lebanon; Thomas E. Gates & Son, 120 Oak, Lebanon; Hampton C. Platt, Box 27, Salem. DW 4-17. Previous report 4-11

SCHOOL PROJECTS— Albany, Ore.

Bond election unsuccessful on April 9, according to Central Linn County High School District, Albany, a newly organized district comprised of Shedd, Brownville and Halsey districts. Election included a proposed transfer of $58,000 surplus general fund money into a site, equipment and building fund, and for a $900,000 bond issue to finance purchase of school buses, building sites and equipment, and construction and improvements of buildings. Another election will be held soon. Plans by Dougan & Heims, architects, Royal Bldg., Portland.

SP 4-17. Previous report 3-22

■ CLINIC— Ashland, Ore.

Planholders announced for construction of a clinic, consisting of three separate wood frame buildings at Ashland, on which bids will be opened 2 p. m., April 24, in the office of Dr. R. M. Turner, 27 3rd St., Ashland. Plans with Balzhiser & Seder, architects, 1920 Franklin Blvd., Eugene.

Planholders: Bessonette & Graff, Box 709, Medford; Dwight L. Seeley, 2322 Hillcrest Road, Medford; Myers D. Jones, Box 161, Medford; Armand Richter & Associates, 221 N. Central Ave., Medford; W. W. Wiley & Co., Box 414, Ashland; H. G. Carl Construction Co., Box 387, Salem.

DW 4-16. Previous report 4-11

■ APARTMENT ADDITIONS—Astoria, Ore.

Planholders announced for construction of 580 sq. ft. (per floor), two-story addition to four "H" type MEMQ apartment buildings at the U. S. Naval Station, Tongue Point, Astoria; Spec. No. 6713/57. Bids will be opened 2 p. m., April 25, by 13th Naval District, room 100, Bldg. 232, U. S. Naval Station, Seattle.

Planholders: J. F. Anders, Seaside; Lester Barnard, 1020 3rd Ave., Seaside; L. P. Brech, Youngs River Road; C. W. Hill, 310 Beach Drive, Seaside; Mills Woodworking Co., Salem; Albert Mittet, Seaside; Hay Robertson & Wallace, 11th and Exchange; J. Helstrom, 1470 Franklin; A. T. Duoos & Son, 1413 Harrison Ave.; Jones & Co., 4536 N.E. 41st, Portland. All of Astoria unless otherwise noted. PD 4-16. Previous report 4-10

● BUILDING ADDITION, UTILITIES— Baker AF Station, Ore.

Bid opening date established as 2 p. m., April 23, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for an addition to the operations building and for various utilities at Baker Air Force Station; ENG-45-108-57-212. Specifications with above office.

SP 4-12. Previous report 3-29

■ SCHOOL ADDITION— Beaverton, Ore.

Planholders announced for construction of a 63'x75' frame multipurpose room addition to the Cedar Hills Schools. Bids will be opened 8 p. m., April 25, by School District No. 57J, Washington County, Frances Hall, clerk, Cedar Hills School, 11640 S.W. Park Way, Beaverton. Plans with Robert C. Douglas, architect, 2041 S.W. 58th Ave., Portland. $25 deposit.

Planholders: Doerrie Construction Co., 301 N.W. Murray Road; Norman Builders, 2805 S.W. 3rd Ave.; Adolfo C. Bardi, 8105 S.E. Duke St.; R. A. Motley, 5029 S.E. Taylor St.; Harry G. Johnson, 7117 S.E. Main St.; Allen E. Anderson, 1839 S.E. 162nd Ave.; J. W. Hannaman, 2215 S.E. Gladstone St.; John B. Howland, 2041 S.W. 58th Ave.; Barnard & Kinne, 4200 S.W. 103rd Court, Beaverton. Of Portland except as noted.

WB 4-17. Previous report 4-3

▲ RADIO STATIONS— Bend, Crescent, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of radio stations at Bend and Crescent Butte, one mile northwest of Bend and four miles east of Crescent, respectively, Deschutes and Klamath counties, Ore., Inv. 8320. BIDDERS: Mann Construction Co., P. O. Box 577, Redmond, (Schedule I) $5,615, (Schedule II) $5,729; Cecil Schweighardt, Box 813, Ephrata, $7,365, $5,946; Tower Sales & Erecting Co., 6100 N.E. Columbia Blvd., Portland, $7,792, $7,218; Harold Moffatt, Inc., Troutdale, $8,112, $7,218. Bids opened April 8. WB 4-10

★ HIGH SCHOOL— Burns Ore.

Award announced by Union High School District No. 2, Lee Baldwin, superintendent, Burns, for construction of a new high school at Burns. Plans by Charles W. Johnston, architect, 13 N. 8th St., Payette, Idaho. Bids opened April 10. AWARD: L. H. Krieger Construction Co., Box 26, Nampa, Idaho, $578,345. 2ND LOW: R. E. Rice Construction Co., 4602 State Stt., Boise, $583,345. 3RD LOW: Lukenga Construction Co., Box 943, Nampa, $583,6747.

SP 4-16. Preivous report 3-23

● MILITARY BUILDINGS, UTILITIES— Burns AFS, Ore.

Bids to be opened 2 p. m., P.S.T., May 10, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 2,095 sq. ft. operations building addition, a 4,600 sq. ft. multipurpose recreation building, reinforced concrete tower foundations and towers, utilities, site preparation, parking area at Burns Air Force Station; ENG-45-108-57-128. Plans with above Seattle office. Bid bond 20%.

Completion time is 180 days for all items except tower erection which is 120 days. Description — (1) Operations building addition; reinforced concrete foundations, frame, roof and floor and 12" concrete block

curtain walls, air conditioning. Other work: 220' double bituminous access road with parking area and 40' concrete of concrete sidewalk. (2) Multipurpose recreation building: concrete floors and foundation, frame building using glued laminated beams and t&g roof decking. Other work: 340' of 6" sewer pipe, 500' of 2½" water line, 340' concrete sidewalk, parking area with curbs. (c) Erect government furnished towers on reinforced concrete tower foundations; 800 c.y. rock excavation, 300 c.y. common excavation; 250 c.y. borrow, 900 sq. yd. subgrade preparation, 120 c.y. crushed rock surfacing.
DM 4-17

VENEER PLANT— Carlton, Ore.
(Estimated cost $500,000)
Bids will be called early summer by Willamette Valley Lumber Corp., William Swindells, president, Dallas, on construction of a veneer plant in Carlton. Plans are being drawn by the company architects.
CP 4-13

▲SALMON HATCHERY— Cascade Locks, Ore.
Bids received by U.S. Fish & Wildlife Service, Leo L. Laythe, regional director, 1001 N.E. Lloyd Blvd., P.O. Box 3737, Portland, for construction of the Cascade Salmon Hatchery, located approximately one mile west of Cascade Locks, at the Eagle Creek Forest Camp and Picnic area, Multnomah and Rood River counties, Ore. LOW BIDS: C. M. Corkum Co., 2630 S.E. S.E. 2nd Ave., $541,418; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., $557,665; Teeples-Thatcher Co., 8850 S.E. Otty, $568,930. All of Portland.
WB 4-16. Previous report 4-9

HOUSING PROJECT— Dallas, Ore.
Plans announced by Earl A. Taylor & Son of Yuma, Ariz., for construction of 50 houses in Birchwood Terrace addition, just east of Main St. on the north bank of Rickreall Creek, Dallas. Two houses will be built initially but the construction program will me increased with the coming of summer. Both two- and three-bedroom houses are planned, with the smaller ones selling for about $7,500 and the larger ones for $9,000.
SC 4-17

TRAINING CENTER FACILITIES— Eugene, Ore.
Bids will be opened about May 3 with a definite date to be established by addendum, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for construction of Army Reserve Training Facilities, one unit, at Eugene; ENG-45-108_57-126. Specifications with above office. Bid bond 20%.
Project includes training center building, maintenance shop, site development, entrance driveway approaches, water lines, sanitary sewer lines, storm drains, exterior electrical work, gravel access road and parking area, and gravel sidewalks. Additive items include asphaltic concrete access road and parking area, concrete sidewalks, security fence and parking area flood lighting.
SP 4-12

COURTHOUSE— Eugene, Ore.
(Estimated cost $2,026,000)
Bids will be called about May 1 by Lane County Commissioners, Courthouse, Eugene, for construction of a new courthouse just north of the existing structure on E. 9th Ave. in Eugene. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.
DW 4-13. Previous report 9-26, 1956

AIRPORT IMPROVEMENTS—Eugene, Ore.
The CAA has allocated $137,403 as 56% of the cost of improvements to Mahlon Sweet Municipal Airport in Eugene, according to Robert A. Finlayson, city manager. City Hall, 11th and Willamette, Eugene. Project includes completion of airport administration building (estimated cost $60,000), reconstruction of main north-south runway, entrance road, parking lot, landscaping, fencing, aircraft berths, additional land acquisition for runways and clear zone.
DW 4-13

▲RESIDENCE— Eugene, Ore.
Bids received in the office of Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene, for construction of a 27'x35' addition to W. H. Haffner residence on Blanton Road in Eugene. Bids opened April 9. LOW BIDS: Cascade Contractors, Box 774, Eugene, $24,379; Arnt Ree & Son, 113 W. 18th Ave., Eugene, $24,770; Smith & Ingram, 128 Sunshine Acres Drive, Eugene, $25,765.
DW 4-16. Previous report 4-4

★TRUCK TERMINAL AND OFFICE— Eugene, Ore.
Award to L. F. Henshaw, 2260 Olive, Eugene, $147,700 (building permit value), for construction of a truck terminal and office building for McCracken Bros. Motor Freight Co., 2320 W. 7th, Eugene. Plans by Percy Bentley, architect, U. S. National Bank Bldg., Eugene. Bids opened March 11.
DW 4-17. Previous report 2-19

●COURTHOUSE (Structural Steel) Eugene, Ore.
Bids will be opened 2 p.m., May 1, by Lane County Board of Commissioners, Courthouse, Eugene, for structural steel required for construction of the new courthouse just north of the existing structure on E. 9th Ave. in Eugene. Specifications with above office and with Wilmsen & Endicott, architect, 863 E. 13th Ave., Eugene.
DW 4-17. Previous report 4-12

●VOCATIONAL SCHOOL— Eugene, Ore.
(Estimated cost $90,000 first unit, $450,000 complete)
Bids will be opened 2 p.m., May 3, by School District No. 504-C, Clarence Hines, superintendent, Administration Bldg., 275 E. 7th Ave., Eugene, for construction of the first unit, including 112'x120' aviation shop building, boiler and generating room, for the new Eugene Vocational School. Plans with above office, and with Hamlin & Martin, architects, 150 W. 12th Ave., Eugene.
Aircraft building of glued laminated arches resting on steel H columns covered with 4" cedar roof decking; bays between H columns of 8" blocks; concrete slab floors; built-up roofing; aluminum sash; high clerestory plastic on food frame; hot water heating with unit heaters in shop, separate fin radiation heating in classroom (included in shop building). DW 4-17. Previous report 1-23

★REROOFING, FLASHING—Gresham, Ore.
Award to Tri-State Roofing Co., 3424 S.E. 174th Ave., Portland, $2,273, by Board of Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for reroofing and flashing of the Poultry Bldg. at the Multnomah County Fairgrounds, Gresham.
WB 4-12. Previous report 3-30

RESIDENCE— Klamath Falls, Ore.
(Estimated cost $60,000)
Sub-bids are being received by owner, Gordon O. Erlandson, 4036 S. 6th, Klamath Falls for a two-story frame residence in the 1900 block on Lawrence St., Klamath Falls. Owner is supervising construction. Plans by Richard Smart, architect, Redding, Calif.
ZZ 4-13

HOUSING PROJECT—Klamath Falls, Ore.
Plans underway by George F. Crain, contractor, 5210 Shasta Way, and Harvey Martin, developer, 1754 Kane, both of Klamath Falls, for a housing project on a 100-lot tract in Moyina Heights, bounded on the west by Patterson at the end of Shasta Way, in suburban Klamath Falls. The contractor and developer will let subcontracts for blacktopping streets, which now have no sidewalks or curbs, and for various items involved in the housing construction.
ZZ 4-17

SCHOOL EXPANSION, WOODWORKING SHOP— Mapleton, Ore.
Bids will be called about May 1 by Mapleton School District No. 32, Richard Boyd, superintendent, Mapleton, for construction of an eight-classroom frame addition to the grade school and construction of a woodworking shop for the high school at Mapleton. A bond issue was approved in January for this project.
DW 4-16. Previous report 1-15

BOYS' SCHOOL— Mt. Angel, Or.
(Estimated cost $400,000)
A 34-acre site located on Marquam Rd. just east of Mt. Angel has been purchased by St. Benedict Catholic Abbey, Rt. Rev. Damion Jentges, OSB, abbot, Mt. Angel, for construction of a boys' high school. Plans underway by Louis Schmerber, architect, 3085 N. River Road, Salem. Completion expected by fall of 1958.
CP 4-1

●KITCHEN CABINETS— Newport, Ore.
Bids will be opened 2 p.m., April 26, by 13th Coast Guard District, room 922, 2nd Ave., Seattle, for constructing and installing kitchen cabinets for Quarters A at Yaquina Head Light Station, Newport; Invit. No. FS-1559. Specifications with above office.
SP 4-1

●ROOFING, FLASHING REPAIRS— Portland, Ore.
Bids will be opened 2 p.m., May 2, by 13th Naval District, room 100, Bldg. 222, U.S. Naval Station, Seattle, for repairing blisters and fabric and metal flashing and recovering training center building, shop and garage building and pier deck house at U.S. Naval and Marine Corps Reserve Training Center, Portland; Spec. No. 6709/57. Area of roofs to be coated with asphaltic emulsion is 60 squares. Specifications with above office. Bid bond 20%.
SP 4-1

▲INSTALLING ASPHALT TILE— Portland, Ore.
Bids received by city purchasing agent, 208 City Hall, Portalnd, for furnishing and laying 3,900 sq. ft. asphalt floor tile at Bureau of Water Works warehouse. BIDDERS: Joe Johnson Linoleum Co., 546 S.E. 78th Ave., Portland, $975; J. A. Wiley Co., 2603 S.E. Grand Ave., Portland, $1,014. Bids opened April 10.
WB 4-12. Previous report 4-

▲BUILDING ALTERATIONS—Portland, Ore.
Bids received by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for alterations to U.S.A.R. lease facilities at N.E. 8th and Davis in Portland; CIVENG-45-108-57-119. Bids opened April 12.
LOW BID: E. N. Ferguson, Portland, $5,833 (Basic item 1), $10,390 (Items 1 inclusive).
SP 4-13. Previous report 3-

▲CHURCH ADDITION— Portland, Ore.
Bids received by Stevens & Thompson, consulting engineers, and Gordon Trage, architect, 2234 S.W. 5th Ave., Portland, for construction of a two-story, wood frame addition to St. Andrews United Presbyterian Church, S.W. Sunset Blvd. and Dosch Road. LOW BIDS: Robertson, Hay & Wallace, 1800 S.E. Grand Ave., $75,500; Blanchard Construction Co., 2546 S.W. Vista Ave., $75,8[illegible]; Russ Todd, 9335 S.W. Fir Grove Lane, $77,[illegible]; Of Portland. Bids opened April 10.
WB 4-16. Previous report 4-

HOME FOR THE AGED— Salem, Ore.
Bids will be called early in May, rather than April as previously planned, by The Methodist Home, Ethel B. Calf, superintendent, 1625 Center St., Salem, for construction of a concrete addition to the home. Plans by James L. Payne, architect, 725 S. Commercial St., Salem.
CP 4-13. Previous report 3-

■COTTAGE WING COMPLETION— Salem, Ore.
Planholders announced for completion of the interior of one wing of a non-ambulatory cottage now under construction at the Oregon Fairview Home near Salem, on which bids will be opened 2 p.m., April 1[illegible] by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem. Plans by Wilmsen & Endicott, architects, 863 13th Ave., Eugene.
Planholders: Viesko & Post, Box 6[illegible]; Hampton C. Platt, Box 27; Mills Construction Co., 502 Kingwood Drive. All of Salem.
DW 4-16. Previous report 4-

WASHINGTON

▲HOUSING PROJECT— Auburn, Wash.

Bids received by King County Housing Authority, Ben Wilcox, executive director, 308 Lowman Bldg., Seattle, for construction of a 60-unit public housing project including streets and utilities for Green River Homes Project in vicinity of "M" St., southeast section of Auburn. Bids were opened April 11. Plans by Talbot Wegg, architect, 1602 Tower Bldg., Seattle. LOW BIDS: Leavitt-Chandler, Box 6, Bellevue, $504,944; Dahlgren Construction Co., 1700 21st S., Seattle, $546,055; Hedeen Construction Co., 1404 N. 143rd, Seattle, $549,900.

PD 4-13. Previous report 3-27

●■ MILK PLANT— Bellevue, Wash.

Bids will be received June 7 (postmarked by midnight) by Safeway Stores, Inc., Construction Division, 1200 Westlake Ave. N., Seattle, for construction of a 130'x230' fluid milk plant at the Bellevue Distribution Center, Bellevue. Plans are available to a select list of bidders at the offices of Safeway Stores, Inc. Plans were prepared by Leo Daly & Associates, architects, 607 Securities Bldg., Seattle.

Planholders: Howard S. Wright & Co., Inc., 414 Pontius; John H. Sellen Construction Co., 228 9th Ave. N.; Kuney Johnson Co., 1266 Mercer; The Austin Co., 2930 4th Ave. S.; Boespflug Construction Co., 1912 4th Ave. S.; Brazier Construction Co., 309 Pontius; Henrik Valle Co., Inc., 413 3rd Ave. W.; Cawdrey & Vemo, 3601 Fremont. All of Seattle. PD 4-16. Previous report 1-22

▲TRINITY LUTHERAN CHURCH— Bellingham, Wash.

Bids received by Trinity Lutheran Church, 2415 Dean, Bellingham, for construction of a one-story frame church. Bids opened April 5. Plans by Grant, Copeland & Chervanak, architects, 420 E. Howell, Seattle. LOW BIDS: Erickson & Weden, 1611 Northwest Road, Bellingham, $114,220; Nelson Construction Co., Box 514, Ferndale, $114,795; Anderson & Ursin, 201 Samish Highway, Bellingham, $116,700. PD 4-12. Previous report 3-27

★PAINTING, LIGHTING— Bellingham, Wash.

Award to Lorentz Bruun, 7337 S.E. 28th Ave., Portland, $29,245 (basic), by General Services Administration, Public Buildings Service, 126 Federal Office Bldg., 908 1st Ave., Seattle, for painting and lighting work at the U. S. Post Office and Court House at Magnolia and Dock streets in Bellingham; Proj. No. CR-10-633.

PD 4-13. Previous report 4-5

SCIENCE BUILDING— Bellingham, Wash.

Construction will start early in the 1957-1959 fiscal biennium (starting in July) for construction of a new 90,000 sq. ft. science building, on a site not yet selected for Western Washington College of Education in Bellingham. Plans by Jones & Bindon, architects, Hoge Bldg., Seattle. The construction was authorized by the $20,000,000 bond issue recently signed by the Governor. Completion expected in 1959.

ET 4-13. Previous report 1-23

RESIDENCE REPAIR— Bridgeport, Wash.

Bids will be opened about April 30 with a definite date to be established by addendum, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for repair of fire damage to a residence at Chief Joseph Dam, Bridgeport; CIVENG-45-108-57-67. Specifications with above office. Bid bond 20%. SP 4-13

■ NIKE FACILITY MODIFICATIONS, IMPROVEMENTS— Camp Hanford, Wash.

Bids will be opened about May 14 with a definite date to be established by addendum, by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla, for modifications and improvements of Nike facilities at Camp Hanford; ENG-45-164-57-39. Specifications with above office.

AIA awards (Cont'd from p. 8)

From 344 entries submitted in the national competition, six have been cited for First Honors and 14 for Awards of Merit. Projects receiving top honors include a chapel at Sedona, Ariz., designed by San Francisco architects Anshen & Allen; an office building in Waltham, Mass., by Anderson, Beckwith & Haible, Boston; a house in New Canaan, Conn., by Eliot Noyes, New Canaan; a courthouse and jail in Bryan, Texas, by Caudill, Rowlett, Scott & Associates, Bryan; a priory for the Benedictine Fathers in Tokyo, by Antonin Raymond and L. L. Rado, New York City; and a high school in Greenburgh, N.Y., by Warren H. Ashley, West Hartford, Conn.

The jurors were Roy F. Larson, FAIA, Philadelphia, chairman; John Knox Shear, editor of Architectural Record, New York; James M. Hunter, Boulder, Colo; Philip D. Creer, head of the School of Architecture, University of Texas, Austin; and Alden B. Dow, AIA, Midland, Mich.

Bid bond 20%. Project includes additions to generator buildings at four sites, including underground fueling systems and gravel roads; fire doors and fire retardant ceilings at one site; lighting mast supports at one site; rehabilitation of substation fence at four sites; 48 dehumidifier pipe air vent caps at four sites; 8 hold-open devices for steel plate doors at four sites; 8 elevator warning horns at four sites; 8 light switches at four sites; 8 insulating mat and manhole cover at four sites; 7 dryer outlets at six sites.

Planholders: Hale Construction Co., Box 782, Pasco; Mason & Hanger-Silas Mason Co., Inc., Box 518, Crockett, Calif.; Twin City Construction Co., 404 N. 7th St., Pasco; Interstate Construction Co., c/o Charles F. Krugle, Box 887, Madras, Ore.; Jensen-Rasmussen & Co., Box 89, Sunnyside; Harold Kaeser Co., 3629 34th Ave. S., Seattle; George A. Grant, Box 764, Pasco; Lewis Hopkins Co., 221 S. 3rd St., Pasco; H. G. Carl Construction Co., Box 387, Salem.

SP 4-17. Previous report 4-12

MASONIC TEMPLE— Clarkston, Wash.

Preliminary investigations underway by the building committee of the Masonic Lodge, 855 Main, Clarkston, for construction of a new Masonic Temple building at Clarkston. Chairman of the committee is William F. Johnson. All preliminary sketches call for a ground floor meeting place, with one sketch calling for use of ramp entrances to both basement and first floor or main meeting room. SC 4-16

●RESIDENCE MAINTENANCE PAINTING— Coulee Dam, Wash.

Bids will be opened 10 a. m., May 9, by Bureau of Reclamation, Box 368, Ephrata, for interior maintenance painting of 33 residences and a post office building, and exterior painting of 149 residences, 32 single garages and one double garage at Coulee Dam, Spec. No. 117C-431. Specifications with above office. Bid bond 10%. Completion time 280 calendar days. SP 4-13

●SCHOOL ADDITIONS, REMODELING— Deming, Wash.

Bids will be opened 8 p. m., April 30, by Mount Baker School District No. 507, William I. Castles, superintendent, at Mount Baker High School, Deming, for construction of additions and alterations to schools in Deming. Plans with Galen W. Bentley, architect, 1130 State St., Bellingham. $25 deposit. Certified check, cashier's check or bid bond 5%. ET 4-17. Preivous report 12-5

ELEMENTARY SCHOOL— Edmonds, Wash.
(Estimated cost $505,000)

Working drawings are underway and bids will be called about the end of May by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for construction of the one-story, 37,000 sq. ft. Melody Hill Elementary school at Edmonds. Plans by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle.

Project includes: slab-on-grade; pumice block; glued laminated beams, flat built-up roof, fibre glass roofing; plaster board, cement-asbestos board partitions; metal windows; Ultra-lite insulation in ceiling; vinyl or asphalt tile; oil-fired central heating system. Campus type plan includes 20 classrooms, a multi-purpose room, administration offices and covered play area.

PD 4-17. Previous report 9-26

●■ SUPERMARKET— Everett, Wash.

Bids will be opened 3 p. m., April 23, by Tradewell Stores, Inc., 4103 2nd Ave. S., Seattle, for construction of a 140'x140' supermarket on Highway 99, just south of Everett. Plans by Rushmore & Woodman, architects, J. S. Ditty Bldg., 602 104th St., Bellevue.

Plans involve: concrete slab-on-grade; steel columns, painted reinforced concrete masonry; concrete thin-shell roofing, built-up roof; rigid insulation on roof; plate glass and aluminum store front; terrazzo, concrete flooring; automatic opening doors; heating by pressure system, four volume heaters, hot water radiant floor panel, gas-fired boiler.

Planholders: Shaffer Construction, Box 804, Everett; Baugh Construction, 922 Poplar; Kuney-Johnson, 1266 Mercer St.; Jentoft & Forbes, 927 W. 46th; O. E. Turnquist, 1305 Republican; Riley Pleas, Inc., 522 19th N.; Newland Construction, Box 230, Everett; Hainesworth Construction, 3028 Western. All of Seattle except as noted. PD 4-16

●■ BUILDING MODIFICATIONS— Fairchild AFB, Wash.

Bids will be opened 10:30 a. m., April 23, by U. S. Air Force, Procurement Office, Fairchild AFB, for modification to Bldg. No. 2318 for post office and relocation and modification of IBM room in Bldg. No. 2245, Fairchild AFB; IFB 45-613-57-73. Specifications with above office.

Planholders: AAA Construction Co., 739 Helena; Combs Construction Co., N. 6014 Nettleton; Forster Bros., E. 408 Garland; H. C. Grendahl, N. 2128 Waterworks; Hefte Construction Co., 11607 E. Trent; Lester N. Johnson, 1318 N. Fancher; Loveland Construction Co., 728 N. Cook; C. J. McGovney, E. 2719 Mt. Vernon; Walter G. Meyers & Son, 1407 N. Calispel; P & B Co., Inc., E. 8903 Main; Northwestern Construction Co., E. 1518 20th; Purvis Construction Co., Box 64, Yardley; Ruud Construction Co., Realty Bldg.; Sceva Construction Co., 2928 N. Madelia; Smith & Roberts, Box 6086; Harold Stallings, E. 1321 18th; Fred Starkey, 1706 S. McCabe Road; Stern Construction Co., E. 815 Francis; Ed Stevens, 11904 E. 19th; Stewart Construtcion Co., 9103 N. Davision; Vista Construction Co., S. 803 Park Road; Warner & Brown, 2904 N. Madelia; Jones & Co., 4536 N.E. 41st, Portland, Ore. All of Spokane unless noted. LL 4-12

▲VEHICLE RAMP— Fairchild AFB, Wash.

Bids received by U. S. Air Force, Procurement Office, Fairchild AFB, for construction of a vehicle ramp at Building 2120, Fairchild AFB; IFB-45-613-57-67. Bids opened April 8. LOW BIDS: Warner & Brown, 2904 N. Madelia, Spokane, $3,995; P & B Co., Inc., E. 8903 Main, Spokane, $3,909; A. J. Popp Construction Co., W. 205 29th, Spokane, $3,818. LL 4-12. Previous report 4-5

■ BANK— Gig Harbor, Wash.

Planholders announced for construction of a one-story 5,000 sq. ft. bank building on a sloping site at the corner of Pioneer Way and Judson, Gig Harbor, on which bids will

be opened 2 p.m., April 30, in the office of the architect, by Peninsula State Bank, Gig Harbor. Plans with A. F. Jensen, architect, 252 Broadway, Tacoma.

Planholders: Shaffer Construction Co., 4007 N. 27th, Tacoma; E. Goettling & Son, 2921 S. J St., Tacoma; Levage Construction Co., Box 2355, Tacoma; Kirkebo & Son, 1410 Mountain View, Tacoma; Quality Builders, 312 S. 112th, Tacoma.

SP 4-16. Previous report 4-11

● MAINTENANCE HEADQUARTERS— Goldendale, Wash.

(Estimated cost $45,000)

Bids will be opened 2 p.m., May 10, in the office of Klickitat County PUD No. 1, Goldendale, for construction of a one-story cement block maintenance headquarters building to house trucks and equipment, to be located at the substation near the Cascade mill, at Goldendale. Plans with Charles Gilman Davis, architect, 2035 S.W. 58th Ave., Portland, Ore., and with above PUD office. $25 deposit. Bid bond 5%. MH 4-17

TELEPHONE BUILDING— Granger, Wash.

Construction underway by V. K. Powell, general contractor, Wapato, for a 20'x30' brick telephone building, to be located on S. 1st St. in Granger, for Oregon-Washington Telephone Co. of Granger. Poured concrete foundation; brick exterior walls; tile facing on front of building; concrete floors; asphalt tile flooring; plaster and paint interior walls, mahogany trim. IG 4-12

OFFICE BUILDING ADDITIONS— Hoquiam, Wash.

(Estimated cost $10,000)

Construction will start soon by the Lamb Grays Harbor Co., Inc., Blaine and Firmin, Hoquiam, for additions to the firm's present office building and engineering department.

SC 4-16

■ PHYSICAL EDUCATION PLANT— Kalama, Wash.

Planholders announced for construction of a 19,600 sq. ft. frame physical education building at Kalama High School. Bids will be opened 8 p.m., April 23, by School District No. 402, Cowlitz County, Mary Lou Rosenboom, clerk, Kalama. Plans with Freeman, Hayslip, Tuft & Hewlett, 2040 S.W. 3rd Ave., Portland. $25 deposit.

Planholders: Robert L. Kellogg, Route 1, Kelso; Quoidbach Construction Co., 1422 Commerce Ave., Longview; Amos J. Peters, 1767 20th, Longview; Harold M. Hill, 2709 Florida St., Longview; Mason & Robinson, 2004 N.E. 137th Ave., Portland; Lorentz Bruun, 3636 S.W. 20th Ave., Portalnd.

Additional planholders: St. Pierre & Vermilyea, 10505 N.E. Beach St., Portland; K. T. Henderson, 1362 Colorado Ave., Longview.

WB 4-12. Previous report 4-5

P.E. PLANT— Marysville, Wash.

Special levy election will be held May 21 by Marysville School District No. 25, Robert C. Bates, superintendent, for a $150,000 levy to provide funds to finance construction of a physical education plant on the site of the existing high school, 1527 7th, Marysville. Preliminary plans underway by Mallis & DeHart, architects, Lyon Bldg., Seattle. The levy, if approved, will also provide funds for construction of the Shoultes Elementary School at Marysville.

HH 4-13. Previous report 3-26

★ PORCH ENCLOSURES, KITCHEN REMODELING— Medical Lake, Wash.

Awards announced by Department of Institutions, Olympia, for the enclosing porches of Franklin, Spruce, Edison and Elm halls and for kitchen remodeling at Lakeland Village, Medical Lake. Plans for kitchen remodeling by George Rasque & Son, architects, Washington Trust Bldg., Spokane. Bids opened April 11. KITCHEN WORK—AWARD: S. G. Morin & Son, W. 411 2nd, Spokane, $9,806. 2ND LOW: Sceva Construction Co., N. 2928 Madelia, Spokane, $9,833. 3RD LOW: Warner & Brown, N. 2904 Madelia, Spokane, $10,171. PORCHES—AWARD: Sceva Construction Co., Spokane, $17,164. ONLY OTHER BID: S. G. Morin & Son, Spokane, $18,548.

DE 4-16. Previous report 3-30

GRADE SCHOOLS, VOCATIONAL SCHOOL— Menlo, Wash.

(Estimated cost $500,000)

Plans underway for construction of two eight-room grade schools and a new vocational unit for the high school at Menlo, Pacific County, Wash., for Millapa Valley School District No. 117, Menlo. Bids will be called late this summer. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. HH 4-13

HIGH SCHOOL—First Phase— Neah Bay, Wash.

Additional government funds are now available to compensate the difference between the low bid and the initial funds appropriated for construction of the first phase of a new high school building at Neah Bay, by Cape Flattery School District No. 401, Clallam County, Glen O. Willison, superintendent, Clallam Bay. Plans by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. Award will be made before the end of April, based upon the bids submitted at the March 26 bid opening. LOW BIDDER: DelGuzzi Bros., 1020 E. Front St., Port Angeles, $105,000.

PD 4-17. Previous report 4-5

▲ HOSPITAL— Newport, Wash.

Bids received by Pend Oreille County Commissioners, Courthouse, Newport, for construction of a one-story 24-bed hospital at the site of the existing hospital in Newport. Plans by McClure & Adkison, architects, N. 108 Washington, Spokane. Bids opened April 9, for owner, Pend Oreille County Hospital District No. 1 of Newport. LOW BIDS: Purvis Construction Co., Box 64, Yardley, $342,380; Walter G. Meyers & Sons, N. 1407 Calispell, Spokane, $344,400; H. Halvorson, Inc., Boy 6, Yardley, $348,717.

SC 4-12. Previous report 3-27

★ HANGAR EQUIPMENT INSTALLATION— Oak Harbor, Wash

Award to Del Guzzi Bros., 1020 Front St., Pt. Angeles, $35,190 (on a late bid), by 13th Naval District, Public Works Office, room 100, Bldg. 232, U. S. Naval Station, Seattle, for equipment installation for class C aircraft maintenance hangar, U. S. Naval Air Station (Ault Field), Whidbey Island, Oak Harbor, Wash.; Spec. No. 6656/57.

PD 4-13. Previous report 4-11

▲ BUILDING ALTERATIONS— Oak Harbor, Wash.

Bids received by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for alterations to the U.S.A.R. leased facility at Oak Harbor; ENG-45-108-57-120. Bids opened April 16.

LOW BIDS: Farlin J. Sahli, Coupeville, $1,798; General Industries, Inc., 106 Main St., Edmonds, $2,284; DelGuzzi Construction, Inc., 1020 E. Front, Port Angeles, $2,993. Government estimate, $2,300.

SP 4-17. Previous report 3-28

YMCA— Opportunity, Wash.

Plans underway by Whitehouse, Price & DeNeff, architects, Hutton Bldg., Spokane, for construction of the Spokane Valley YMCA in Opportunity, according to Lawrence B. Knisley, general secretary for the YMCA in Spokane. A site for the structure has been purchased at Broadway and McDonald Road in Opportunity. MH 4-12

ELEMENTARY AND HIGH SCHOOL ADDITIONS— Oroville, Wash.

Bond issue for $295,000 approved in the March 30 election held by Oroville School District No. 405, Paul Buhrmester, superintendent, Oroville, to finance 12 new elementary school classrooms, a kitchen-lunchroom unit and classroom additions to the high school at Oroville.

MH 4-12. Previous report 3-1

●■ DINING HALL MODIFICATION— Paine AFB, Wash.

Bids will be opened 2 p.m., May 9, by U. S. Air Force, Purchasing and Contracting Office, Paine AFB, for modification of airmen's dining hall, Bldg. 303, at the base; Inv. No. 45-602-57-48. Specifications with above office. Bid bond 20%. Project involves installation of ¾" ceramic tile floor to ceiling, on kitchen and scullery walls in Bldg. 303.

Planholders: Metropolitan Builders, 1[illegible] Broadway, Everett; Burfitt Construction, 1445 W. 56th, Seattle; D & A Construction, 1113 N. 100th, Seattle; Jack Fast, 22 Etruria, Seattle; Frank Damson, Route 2, Hillside Road, Everett; General Industries, 106 Main St., Edmonds; Lindbrook Construction Co., 11738 35th N.E., Seattle; Roy E. Rudd, Box 835, Everett; Sanford Wright, Box 809, Everett; Solie Builders, 7514 Juniper Drive, Route 4, Everett; Gill Construction Co., 5117 25th N.E., Seattle; Murphy & Humble, 1577 E. 170th, Seattle; C & R Builders, 1126 Fairview Ave. N., Seattle; Odegard Construction Co., Box 735, Everett; Rasmussen & Funk Co., 2811 3rd Ave., Seattle. HH 4-16

● HANGAR DOOR AND TRACK REPAIR— Paine AFB, Wash.

Bids will be opened 2 p.m., May 14, by U. S. Air Force, Purchasing and Contracting Office, Paine AFB, for repair of hangar doors and door track in Bldg. No. 207 at Paine AFB; Inv. No. 45-602-57-49. Specifications with above office. Bid bond 20%.

Planholders: Bryon W. Burtch, 2915 1st Ave. S.; Roy E. Rudd, Box 835, Everett; Star Iron & Steel Co., 435 E. 11th, Tacoma; Arrow Iron & Machine Work, 1327 Wells; F. T. Crowe & Co., 329 2nd W.; D & A Construction, 1113 N. 100th; Isaacson Iron Works, 8531 E. Marginal Way; Leckenby Structural Steel, 2745 11th S.W.; Puget Sound Fabricators, 3670 E. Marginal Way; Angel & Nelson, 2010 Hewitt, Everett. All of Seattle unless noted. HH 4-17

COLLEGE BUILDINGS— Pasco, Wash.

Plans announced by Pasco School District No. 1, 317 N. 3rd St., Pasco, for construction of two additional buildings at the Columbia Basin College at Pasco, including a 40,000 sq. ft. classroom structure and 34,000 sq. ft. gymnasium-music building. The buildings will total about 74,000 sq. ft. Plans by Victor Louis Wulff, architect, W. 1526 Riverside, Spokane. Sketches have also been drawn for a scientific-technical building, to be constructed in 1957, to serve the college's agriculture sciences department. Bids will be called in late June or July for the two immediately proposed buildings. SC 4-16

★ OFFICE BUILDING— Prosser, Wash.

Award to Middlecoup & Buckley, Richland, $20,640, by Prosser Packers, Inc., 6th St. and Bennett Ave., Prosser, for construction of a new concrete block office building at the corner of Bennett and Dudley avenues in Prosser. Plans by Cormac C. Thompson, architect, 1124 5th St., Prosser.

SP 4-12. Previous report 3-27

RANCH HOUSE— Prosser, Wash.

Bids will be called soon for opening in the office of Cormac C. Thompson, landscape architect, 1124 5th St., Prosser, for construction of a one-story frame ranch house to be located in the wheat country north of Prosser. Owner is R. J. McWhorter of Prosser. Building to include full block basement, including multipurpose room; 1,750 sq. ft.; cedar siding; drywall interior; brick fireplace; complete year around air conditioning. Project also includes backfill and grading of site with preliminary landscaping, construction of storage cistern and pressure water system, septic sewage system and one ranch barn. SP 4-12

PHYSICAL EDUCATION PLANT— Puyallup, Wash.

Bond election date advanced from May 21 to May 14 by Puyallup School District No. 3, Paul B. Hanawalt, superintendent, 605 W. Main, Puyallup, for a $120,000 special-millage proposition to complete the financing of a new physical education plant for the senior high school at 105 7th S.W. in Puyallup. MH 4-12. Previous report 3-27

CHURCH, RECTORY— Quincy, Wash.

Bids will be called late in May by Diocese of Yakima, Most Rev. Joseph P. Dougherty, bishop, Liberty Bldg., Yakima, for construc-

tion of a Roman Catholic church and rectory at Quincy. Plans by Roger Gotteland & Associates, architects, 325 2nd and Cherry Bldg., Yakima. IG 4-13. Previous report 2-13

●BUILDING FOUNDATION, ADDITION— Renton Wash.

Bids will be received until 2 p.m., April 29, by Boeing Airplane Co., M. G. Votaw, Transport Division, Facilities Dept., Box 707, Renton, for installation of a foundation for a 5,000 ton Bliss press and an addition (to be used as a shelter) to the Reclamation Bldg., Boeing Airplane Co., Renton. Plans available at office of Austin Associates, 2930 4th Ave. S., Seattle. $25 deposit. Bid bond or cashier's check 5%. DM 4-16

▲BUILDING ADDITION— Richland, Wash.

Bids received by Atomic Energy Commission, Box 550, Richland, for construction of a concrete block addition to a building in the transportation center at Richland. Bids opened April 10. LOW BIDS: Frank H. Lohse, 2700 E. Lewis, Pasco, $3,250; Hale Construtcion Co., 1712 N. Arthur, Pasco, $3,400; George A. Grant, Box 764, Pasco, $4,320. SP 4-12. Previous report 4-6

●EXTERIOR PAINTING— Richland, Wash.

Bids will be opened April 26 by Atomic Energy Commission, Box 550, Richland, for the complete exterior painting of 462 housing units in Richland and miscellaneous exterior painting on 133 units. Specifications with above office. SP 4-17

▲SCHOOL ADDITION, SHOP BUILDING— Rosalia, Wash.

Bids received by Whitman County School District No. 256, Mildred A. Palmer, secretary, at the superintendent's office, Rosalia, for construction of an eight-classroom masonry and frame addition to the grade and high school building and an agriculture shop building at Rosalia. Plans by Victor Louis Wulff, architect, W. 1526 Riverside, Spokane. Bids opened April 10. LOW COMBINED BASIC BIDS—GENERAL: Vista Construction Co., 803 S. Park Road, $108,800; Purvis Construction Co., Box 64, Yardley, $116,930; Stewart Construction Co., 9103 N. Division, $117,490. MECHANICAL: Arnold & Jeffers, N. 1309 Ash, $58,869; McClintok & Turk, N. 3812 Division, $63,857; C. M. Wilderman, 520 S. Main, Moscow, Idaho, $64,800. ELECTRICAL: Kehne Electric, N. 416 Helena, $10,905; Rod's Electric, N. 1020 Washington, $12,975; Brown-Johnston Electric, N. 118 Lincoln, $13,070. ELEMENTARY SCHOOL ONLY—GENERAL: Vista Construction Co., $89,500; Purvis Construction Co., $97,000; Stewart Construction Co., $98,490. MECHANICAL: Arnold & Jeffers, $53,388; McClintok & Turk, $57,450; Standard Plumbing & eHating, E. 1801 Sprague, $58,820. ELECTRICAL: Kehne Electric, $8,951; Rod's Electric, $11,295; Brown-Johnston Electric, $11,320. AGRICULTURE SHOP—COMBINATION BID: Harold Lawson, Rosalia, $25,684. GENERAL: Vista Construction Co., $19,300; Spilker & Sons, Route 5, $19,323. MECHANICAL: Arnold & Jeffers, $5,481; C. M. Wilderman, Moscow, $5,800. ELECTRICAL: D. G. Quinton, N. 1413 Division, $1,999; Kehne Electric, $2,694. All of Spokane unless otherwise noted. LL 4-13. Previous report 3-29

▲GARAGE AND STORAGE BUILDING ADDITION— Seattle, Wash.

Bids received by Paul R. Hendricks, purchasing agent, 511 County-City Bldg., Seattle, for construction of an addition to the garage and storage building in Kinnear Park, Seattle. Bids opened April 9. LOW BIDS—Basic: Rasmussen & Funk Co., Box 7061, Seattle, $5,150; Walsh Services, Inc., 8 Nickerson St., Seattle, $5,275; Northern State Construction Co., 7833 26th Ave. W., Seattle, $5,464. PD 4-10. Preivous report 3_21

★CABLE, FITTINGS, LANTERNS, GLOBES— Seattle, Wash.

Awards announced by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing the following items on which bids were opened April 8: Texas Wire & Cable c/o W. O. Proby & Associates, 2915 13th Ave. S.W., Seattle, $25,709 (80,000 lb. transmission cable); Westinghouse Electric Supply Co., 1051 1st Ave. S., Seattle, $1,338 (joints, ends); Graybar Electric Co., King and Occidental streets, Seattle, $3,247 (insulators); Jack Pruzan, 109 Jackson, Seattle, $3,215 (clamps); Fisheries Supply Co., Pier 55, Seattle, $1,646 (lanterns, globes). PD 4-12. Previous report 4-2

WAREHOUSE, OFFICE BUILDING— Seattle, Wash.

Construction will start later in April by owner-contractor Nyberg Brothers Sheet Metal Works, 810 W. 45th, Seattle, on a 100'x50' warehouse and office building on a site adjacent to the above address, for Snap-On Tools Corp., (lessee), c/o Ewing & Clark, Inc., 1104 3rd Ave., Seattle. Plans by Cooper & Sawyer, architects, 3200 E. 125th, Seattle.

Work involves: concrete or pumice block; partial cement-asbestos board exterior; glued laminated beams; flat built-up roof; metal windows; plaster board partitions, ceilings; metal windows; concrete flooring, asphalt tile in office area; gas-fired unit heaters. Parking area for 12 cars. PD 4-12

■AIR LINE FACILITY EXPANSION— Seattle, Wash.

Additional planholder announced for construction of a 77,000 sq. ft. three-story addition to existing hangar, installation of a flight kitchen in the present hangar and construction of a loading dock at the United Air Line company's installations at the Seattle-Tacoma International Airport. Bids will be opened April 23 by United Air Lines in the office of Young, Richardson & Carleton, architects, Central Bldg., Seattle. Planholder: Jentoft & Forbes, 927 W. 46th, Seattle. PD 4-12. Previous report 4-6

▲ST. PAUL'S LUTHERAN CHURCH— Seattle, Wash.

Bids received in the office of Grant, Copeland & Chervanek, architects, 402 E. Howell, Seattle, for construction of a one-story wood frame church building at the corner of S.W. 116th and 21st Ave. S.W. in Seattle, for St. Paul's Lutheran Church of Shorewood, Dr. C. P. Rasmussen, pastor, at above address. Bids opened April 10. LOW BIDS: E. L. Ollom Construction Co., 2315 W. Spokane, Seattle, $41,208; Brynstead Construction Co., 839 S. Oxford, Tacoma, $45,316; Ed Brehm, 9406 N.E. 32nd, Bellevue, $47,178. SP 4-12. Previous report 3-30

▲PREFABRICATED STEEL BUILDING— Seattle, Wash.

Bids received by Alaska Communication System, 550 Federal Bldg., Seattle, for furnishing and erecting a prefabricated steel building; Inv. No. SC-45-041-57-21. Bids opened April 11. LOW BIDS: Merrell Steel Building Co., 2207 N.W. Front Ave., Portland, $2,692; Roy E. Rudd, Box 835, Everett, $3,106; Armco Drainage & Metal Products, 1320 S.W. Broadway, Portland, $3,381. SP 4-12. Previous report 4-2

★STORE— Seattle, Wash.

Award to James M. Glass and R. A. Horstman, Pier 65, Seattle, $40,893, by Schuck Auto Supply Co., 7th and Bell, Seattle, for construction of a one-story auto supply store at 130 S.W. 152nd St., Seattle. Plans by V. W. Voorhees, architect, 2106 30th Ave. S., Seattle. PD 4-13. Previous report 3-22

HANGAR— Seattle, Wash.

(Estimated cost $2,500,000)

Construction is contemplated by 1959 by Northwest-Orient Airlines, Seattle-Tacoma Airport, Donald Nyrop, president, for an airplane storage building approximately 200' x165', to be built at Seattle-Tacoma Airport. PD 4-13

●HOUSE OF PRAYER LUTHERAN CHURCH— Seattle, Wash.

(Estimated cost $42,000)

Bids will be opened 2 p.m., April 25, in the office of the architect, Oliver Olson, 2437 Market St., Seattle, for construction of a one-story 5,600 sq. ft. church plant at 11401 10th Ave. S., Seattle, for House of Prayer Lutheran Church. Plans with the architect. Select list of bidders. $25 deposit.

Plans call for: slab-on-grade; post and beam; flat built-up roof, 3"x6" t&g decking; aluminum curtain wall, brick, concrete block and cedar siding; folding partitions; electric panel heating (proposed). PD 4-13. Previous report 4-4

■BUILDING MODIFICATION, GENERATOR, CABLES— Seattle, Wash.

Planholders announced for remote UHF/VHF facility involving modifications to several buildings, replacing generators and transformer, providing poles, platform, coaxial cables, communication cable at Naval Air Station in Seattle; Spec. No. 6711/57. Bids will be opened 2 p.m., April 23, by 13th Naval District, room 100, Building 232, U.S. Naval Station, Seattle.

Planholders: Agutter Electric Co., 5500 14th N.W.; Beckstrom's Electric, Inc., 14056 Bothell Way; C. B. Campbell Co., Inc., 436 21st S.; O. A. Carlson Co., Inc., 4025 Stone Way; City Electric & Fixture Co., 433 8th Ave. N.; Donald W. Close Co., 2921 13th S.W.; Holert Electric, 2300 W. Spokane; In-

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dustrial Electric Co., Inc., 1828 Yale; Northwest Engineering Electric Co., 616 6th Ave. S.; Salmon Bay Electric Co., 4728 Ballard; Selo Electric Co., Inc., 1050 N. 38th; Clair E. Prescott, 3516 Airport Way; Wayne Construction Co., 3812 Stone Way; C & R Builders, Inc., 1619 8th N.; J & W Construction Co., 4100 E. Marginal Way. All of Seattle.
PD 4-16. Previous report 4-9

APARTMENT— Seattle, Wash.
(Estimated cost $250,000)
Construction will be underway soon by owner - contractor Lurie Construction Co., 1554 Olive Way, Seattle, on a four-story 32-unit apartment building at 720 Lakeside Ave. S., Seattle. Plans by Donald N. McDonald & Associates, architects, 719 2nd Ave., Seattle. Plans involve: concrete foundation on piling; concrete block; flat built-up roof; masonry exterior; aluminum windows; dry-wall interior; wood joist floors, asphalt tile or carpeting; electric baseboard heat; private balconies.
PD 4-16

BAPTIST CHURCH— Seattle, Wash.
Preliminary drawings are underway by B. F. McAdoo, Jr., architect, 1718 Olive Way, Seattle, for construction of the New Hope Baptist Church, 21st and Fir St., Seattle. Further information will be available in the late summer.
PD 4-17

■ **HIGH SCHOOL ADDITION, ALTERATIONS— Seattle, Wash.**
Planholders announced on construction of a one-story, 108'x120' addition to Grover Cleveland High School, and alterations to the existing building, on which bids will be opened 2 p. m., April 30, by Seattle School District No. 1 in the office of Bryon Smith, administrative assistant, 815 4th Ave. N., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle.
Planholders: Henrik Valle Co., Inc., 413 3rd W.; Riley Pleas, Inc., 522 19th N.; J. C. Boespflug Construction Co., 1912 4th S.; Herbert U. Taylor, 11239 Arroya Beach Place S.W.; Cawdrey & Vemo, 3601 Fremont.
DM 4-17. Previous report 4-10

JUNIOR COLLEGE— Sedro Woolley, Wash.
(Estimated cost $1,144,080)
Bond election will be held May 14 by Union High School District No. 1 for a $469,000 bond issue to finance construction of the proposed new Skagit Valley Junior College buildings on the new campus located on a 35-acre site just east of the Hamburg Iron Works in Sedro Woolley. The State will contribute approximately $912,060 toward the project. If the bond issue is approved, construction could be started about October 1.
SC 4-11

▲ **PUD BUILDING— Shelton, Wash.**
Bids received by Mason County PUD No. 3, 227 Cota, Shelton, for construction of a two-story, 109'x81', reinforced masonry office building across the street from the existing PUD building in Shelton. Plans by G. Burleigh Krona, architect, 1205 Fairview Drive, Tacoma. Bids opened April 8. LOW BIDS—GENERAL: Cascade-Olympic Construction Co., Route 2, Box 131, Shelton, $189,995; Concrete Construction Co., 2015 Center St., Tacoma, $195,510; M & O Construction Co., 1323 S. K St., Tacoma, $198,725. MECHANICAL: Boone Plumbing & Heating Co., 401 1st St., Shelton, $8,975; Harold Jewell Plumbing & Heating, 6605 6th Ave., Tacoma, $9,805; Standard Plumbing & Heating, 2004 E. 10th St., Bremerton, $11,995. ELECTRICAL (including heating): Thackeray Electric, 217 Cota St., Shelton, $49,400; Smith Electric, Box 88, Shelton, $53,358. Lower basic bids submitted by Pacific Electric Co., 644 5th St. and Peterson Electric, 339 Callow St., both Bremerton, were rejected because of apparent errors in figuring alternates.
SC 4-12. Previous report 3-28

▲ **POWER BUILDING FOUNDATION, FLOOR— Silver Lake, Wash.**
Bids received by Alaska Communication System, 550 Federal Office Bldg., Seattle, for construction of concrete foundation and floor for a prefabricated 20'x36' power building, U. S. Army Alaska Communication System, Silver Lake; SC-45-041-57-24. Bids opened April 16.
LOW BIDS: Roy E. Rudd, Box 835, Everett, $3,445; Carl F. DelMissier, 1933 7th Ave. W., Seattle, $4,405; United Construction Co., 3627 Findlay St., Seattle, $4,487.
SP 4-17. Previous report 4-5

■ **SCHOOL ADDITION— Spanaway, Wash.**
Planholders announced for construction of a four-room and playshed addition to the elementary school at Spanaway, on which bids will be opened 8 p. m., April 23, by Bethel School District No. 403, in the superintendent's office at High School Building, Muck-Kapowsin Road, Spanaway. Mail address: Dewane E. Lamka, superintendent, Route 1, Box 289-AB, Spanaway. Plans with Harry E. Botesch, architect, and F. Edward Brown, associate, 504 Commerce Bldg., Everett.
Planholders: Noel Construction Co., 11014 Main, Bellingham; Moberg Construction Co., Route 2, Box 714, Tacoma; Pedersen Construction Co., Box 2366, Parkland; M & O Construction Co., 1323 S. K St., Tacoma; Korsmo Bros., 155 E. 123rd, Tacoma; Goettling & Sons, 2921 S. J St., Tacoma; Cross Construction Co., 207 N. Southeast, Auburn; Levage Construction Co., Box 655, Parkland; C. E. Skinner, Box 706, Orting; R. G. Foster, 11725 Pacific Highway S., Tacoma.
HH 4-17. Previous report 4-3

▲ **ELEMENTARY SCHOOL, ADDITIONS— Spokane, Wash.**
Bids received by Spokane School District No. 81, Building and Grounds Department, Spokane, for construction of additions to three elementary schools and construction of a new elementary school at Spokane. Bids opened April 10. LOW BIDS—GENERAL: Peter J. Young, 1211 E. Columbia, $213,600; Warner & Brown, 2904 N. Madelia, $214,252; Vista Construction Co., 803 S. Park Road, $223,762. MECHANICAL: Peck & Gale, S. 211 Washington, $77,770; Womack Plumbing & Heating, 328 S. Jefferson, $78,180; Adams & Little, N. 1329 Howard, $78,750. ELECTRICAL: Maxwell's, Inc., 14 E. Mission, $22,186; Kehne Electric, N. 416 Helena, $22,572; Frost Electric, 2115 N. Division, $22,751. All of Spokane.
LL 4-12. Previous report 4-9

● **ST. FRANCIS OF ASSISI SCHOOL— Spokane, Wash.**
(Estimated cost $230,000 first unit, $170,000 second unit)
Bids will be opened 2 p. m., April 25, by Catholic Diocese of Spokane, Most Rev. Bernard J. Topel, bishop, 317 Howard, Spokane, for construction of the first unit of a future two-unit parochial school at Heroy and Jefferson streets in Spokane. Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Select list of bidders. First unit to include a ten-classroom school; two-story; reinforced concrete foundation; steel joists; poured concrete floors over corrugated decking; concrete and brick veneer exterior.
LL 4-12. Previous report 2-19

★ **ST. PETER'S CATHOLIC SCHOOL, PARISH HALL— Spokane, Wash.**
Award to William Spilker & Sons, Route 5, Spokane, $121,190, by Catholic Diocese of Spokane, Most Rev. Bernard J. Topel, bishop, S. 317 Howard, Spokane, for construction of the first unit of a new church on property bounded by 18th and 20th, Thor and Freya streets, in Spokane. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane.
LL 4-13. Previous report 4-2

HOME FOR THE AGED— Spokane, Wash.
(Estimated cost $1,000,000)
Plans announced by T. A. Myklebust, chairman of the Riverview Lutheran Home Association in Spokane, for construction to start in the fall on a four-story Lutheran home for the aged. The site of the home, comprising an area of about two city blocks, will be located on the Spokane River near the new Washington Water Power Co. offices. Preliminary sketches call for a building having four wings, three of which will be built initially.
LL 4-13

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

GARLAND ELEMENTARY SCHOOL— Spokane, W
Following is description for construct of the eight-classroom Garland Eleme School, including complete service ce to be located at the site of the old sc which was damaged by fire, in Spokane, which bids will be opened 7:30 p.m., A 24, by Spokane School District No. Building and Grounds Department, W. West Ave., Spokane. Slab on grade w tunnels on both sides; 2"x6" stud exte walls with brick veneer or cement asbe board, or 8" concrete blocks with or with brick veneer, or 8" brick walls, 2"x8" 2"x4" stud interior walls or 8" concr blocks; sidewalk additions and site w included in contract.
LL 4-13. Previous report 3-

● **MOTEL— Spokane, Wa**
Bids will be opened April 23 in the offi of McClure & Adkison, architects, Sherw Bldg., Spokane, for construction of six-u Wynn Motel at S. 924 Lindeke St. in Sp kane. Plans with the architects. Ced siding exterior; wood trusses; ceramic t bathrooms; natural gas fired boiler. LL 4-

PACIFIC PAPER PLANT— Tacoma, Wa
Plans announced by Roger Molt, Pacif Paper Products, Inc., for construction of industrial plant on a three-acre site on Li coln Ave. in Tacoma for the production disposable professional items for use in ho pitals, clinics and doctors' offices. Init construction will solve the erection of 60'x140' prefabricated steel structure Soule' Steel Co., Box 3685, Terminal Ann Seattle. The building will be completed the end of May. Complete plans call the construction of several buildings on site, facing Lincoln Ave. just northeast Alexander Ave. in Tacoma.
SC 4-

★ **WOODROW WILSON HIGH SCHOOL— Tacoma, Wa**
Awards announced by Tacoma School Dis trict No. 10, Carl C. Caddey, secretary, 9th and Tacoma Ave., Tacoma, for constru tion of the 188,000 sq. ft. Woodrow Wil High School on Orchard between N. 1 and 14th streets, Tacoma. AWARDS—N son Construction Co., 3504 N. Monroe, $ 871,446 (general); Bergh-Griggs Plumbi and Heating, 709 Pacific, $494,810 (mecha cal); Washington Electric Co., 5235 S. T coma Way, $204,588 (electrical).
DM 4-17. Previous report

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DC 4-

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DE 4-13. Previous report

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MH 4-

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SP 4-13. Previous report 3-

●BANK— Wilbur, Wash.

Bids will be opened 2 p. m., April 26, in the office of Nicholas A. Kabush, architect, Hutton Bldg., Spokane, for constructing of a new one-story concrete bank building for the State Bank of Wilbur. Plans with the architect. $20 deposit. Select list of bidders. Bid bond 5%. Structural engineer is Jack M. Lyerla, Realty Bldg.; mechanical engineer, Kendall Wood & Associates, Hutton Bldg.; electrical engineer, Joseph Doyle, Realty Bldg.; all of Spokane.

Planholders: AAA Construction Co., 739 N. Helena; Kenneth Custis, 741 E. 23rd; Johnson-Busboom-Rauh, N. 601 Cedar; Selkirk Construction Co., 722 W. 16th; H. Halverson, Inc., Box 6, Yardley; Northwestern Construction Co. E. 1518 20th; Walter G. Meyers & Son, Box 5011. All of Spokane unless noted.

One-story; 40'x80'; Haydite block and reinforced concrete walls; acoustical interior; glass area with double pane design to be set in aluminum casings on east side; 8-car parking area; arcade on east side of building to have electrically heated tile sidewalks; radiant heating with supplementary hot air system for interior.

LL 4-17. Previous report 3-8

★SCHOOL ADDITION— Wiley City, Wash.

Award to W. J. Park & Son, 1904 Rudkin Road, Yakima, $84,650, by West Valley School District No. 208, Yakima, for construction of a six-room addition to Ahtanum Valley Elementary School in Wiley City. Plans by Don Gochnour and Ed Marble, architects, 621 Miller Bldg., Yakima.

IG 4-17. Previous report 3-30

JUNIOR HIGH SCHOOL— Yakima, Wash.

Preliminary plans underway for construction of a 15-classroom junior high school building in Selah, for Selah School District No. 119, Elmo Steinke, superintendent, Selah. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima. A bond issue was approved in November for this project.

IG 4-12. Previous report 11-13

▲SHOP, GARAGE BUILDING— Yakima, Wash.

Bids received April 11 by Yakima County Commissioners, Courthouse, Yakima, for construction of a prefabricated metal truck garage (Sched. 1), a prefabricated metal bridge department building (Sched. 2), and a reinforced concrete and block maintenance shop building (Sched. 3) at Yakima. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. LOW BIDS—SCHED. 1: Wilmer Bartram, Grandview, $17,063; Edmiston & Sons, 2512 S. 1st, Yakima, $18,296; White River Lumber Co., Wapato, $19,580. SCHED. 2: Edmiston & Sons, $18,328; W. M. Yeaman, 601 S. 1st, Yakima, $20,061; Wilmer Bartram, $20,197. SCHED. 3: W. M. Yeaman, $200,672; Wilmer Bartram, $206,600; Hans M. Skov Construction Co., Liberty Bldg., Yakima, $208,977.

IG 4-12. Previous report 4-6

CHURCH— Yakima, Wash.

Bids will be called about the middle of May by First Christian Church, Rev. Orval Peterson, N. 3rd and E. B streets, Yakima, for construction of a two-level first unit of the West side branch of the church, consisting of an educational wing and fellowship hall at 44th and Englewood avenues, Yakima. Working drawings are nearing completion by the architects, Durham, Anderson & Freed, 1100 Denny Way, Seattle.

IG 4-13. Previous report 4-5

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IG 4-17. Previous report 4-12

IDAHO

★SCHOOL— Boise, Idaho

Award to Jordan-Wilcomb Co., 406 S. 6th St., Boise, $1,630,328, by Boise Independent School District, D. C. Beaumont, superintendent, Administration Bldg., 1207 Fort St., Boise, for construction of the three-building, one-story, 140,000 sq. ft. school plant for Borah Senior High School to be located west of the city. Plans by The Associated Architects, 2504 Kootenai, Boise.

SP 4-13. Previous report 4-4

●BUILDING ADDITION— Cottonwood AF Station, Idaho

Bid opening established as 2:15 p. m., April 24, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for construction of an addition to operations building, placing 240 sq. yd. bituminous surfacing and installation of 25' of 15" culvert at AC&W facilities, Cottonwood Air Force Station, Idaho; ENG-45-108-57-122. Specifications with above office.

SP 4-12. Previous report 3-30

▲ELEMENTARY SCHOOL— Driggs, Idaho

Bids received by Teton County School District No. 401, Lowell Taylor, superintendent, Driggs, for construction of a new elementary school at Driggs. Bids opened April 5. LOW BIDS—GENERAL: Davis Construction Co., Rexburg, $163,000; Blodgett Construction Co., 5110 Cherokee, Pocatello, $167,300; Zollinger & Son, Rexburg, $173,000. MECHANICAL: Can-Do Shop, Sugar City, $48,500; Berger Plumbing & Heating, Driggs, $49,999. ELECTRICAL: Brunson Electric, Rexburg, $13,608; Jewel Electric, 801 N. Holmes, Idaho Falls,



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Difficult Tri-Level Forming Problem Solved with GATES SYSTEMS





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Foundation plans for this brick tri-level specified 19 different elevations and many wall irregularities. To form the tricky foundation easily and economically, Morris Bros. Construction Co., Denver, Colorado, used Gates Vertical Rod High-Wall System, with a unique *combination* of ¾" plywood panels for the exterior and S4S sheathing for the interior.

The versatile Gates Systems can help solve *your* forming problems, too!

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PAB 4/57

dustrial Electric Co., Inc., 1828 Yale; Northwest Engineering Electric Co., 616 6th Ave. S.; Salmon Bay Electric Co., 4728 Ballard; Selo Electric Co., Inc., 1050 N. 38th; Clair E. Prescott, 3516 Airport Way; Wayne Construction Co., 3812 Stone Way; C & R Builders, Inc., 1619 8th N.; J & W Construction Co., 4100 E. Marginal Way. All of Seattle.
PD 4-16. Previous report 4-9

APARTMENT— Seattle, Wash.
(Estimated cost $250,000)

Construction will be underway soon by owner - contractor Lurie Construction Co., 1554 Olive Way, Seattle, on a four-story 32-unit apartment building at 720 Lakeside Ave. S., Seattle. Plans by Donald N. McDonald & Associates, architects, 719 2nd Ave., Seattle. Plans involve: concrete foundation on piling; concrete block; flat built-up roof; masonry exterior; aluminum windows; dry-wall interior; wood joist floors, asphalt tile or carpeting; electric baseboard heat; private balconies.
PD 4-16

BAPTIST CHURCH— Seattle, Wash.

Preliminary drawings are underway by B. F. McAdoo, Jr., architect, 1718 Olive Way, Seattle, for construction of the New Hope Baptist Church, 21st and Fir St., Seattle. Further information will be available in the late summer.
PD 4-17

■ HIGH SCHOOL ADDITION, ALTERATIONS— Seattle, Wash.

Planholders announced on construction of a one-story, 108'x120' addition to Grover Cleveland High School, and alterations to the existing building, on which bids will be opened 2 p. m., April 30, by Seattle School District No. 1 in the office of Bryon Smith, administrative assistant, 815 4th Ave. N., Seattle. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle.

Planholders: Henrik Valle Co., Inc., 413 3rd W.; Riley Pleas, Inc., 522 19th N.; J. C. Boespflug Construction Co., 1912 4th S.; Herbert U. Taylor, 11239 Arroya Beach Place S.W.; Cawdrey & Vemo, 3601 Fremont.
DM 4-17. Previous report 4-10

JUNIOR COLLEGE— Sedro Woolley, Wash.
(Estimated cost $1,144,080)

Bond election will be held May 14 by Union High School District No. 1 for a $469,000 bond issue to finance construction of the proposed new Skagit Valley Junior College buildings on the new campus located on a 35-acre site just east of the Hamburg Iron Works in Sedro Woolley. The State will contribute approximately $912,060 toward the project. If the bond issue is approved, construction could be started about October 1.
SC 4-11

▲PUD BUILDING— Shelton, Wash.

Bids received by Mason County PUD No. 3, 227 Cota, Shelton, for construction of a two-story, 109'x81', reinforced masonry office building across the street from the existing PUD building in Shelton. Plans by G. Burleigh Krona, architect, 1205 Fairview Drive, Tacoma. Bids opened April 8. LOW BIDS—GENERAL: Cascade-Olympic Construction Co., Route 2, Box 131, Shelton, $189,995; Concrete Construction Co., 2015 Center St., Tacoma, $195,510; M & O Construction Co., 1323 S. K St., Tacoma, $198,725. MECHANICAL: Boone Plumbing & Heating Co., 401 1st St., Shelton, $8,975; Harold Jewell Plumbing & Heating, 6605 6th Ave., Tacoma, $9,805; Standard Plumbing & Heating, 2004 E. 10th St., Bremerton, $11,995. ELECTRICAL (including heating): Thackeray Electric, 217 Cota St., Shelton, $49,400; Smith Electric, Box 88, Shelton, $53,358. Lower basic bids submitted by Pacific Electric Co., 644 5th St. and Peterson Electric, 339 Callow St., both Bremerton, were rejected because of apparent errors in figuring alternates.
SC 4-12. Previous report 3-28

▲POWER BUILDING FOUNDATION, FLOOR— Silver Lake, Wash.

Bids received by Alaska Communication System, 550 Federal Office Bldg., Seattle, for construction of concrete foundation and floor for a prefabricated 20'x36' power building, U. S. Army Alaska Communication System, Silver Lake; SC-45-041-57-24. Bids opened April 16.

LOW BIDS: Roy E. Rudd, Box 835, Everett, $3,445; Carl F. DelMissier, 1933 7th Ave. W., Seattle, $4,405; United Construction Co., 3627 Findlay St., Seattle, $4,487.
SP 4-17. Previous report 4-5

■ SCHOOL ADDITION— Spanaway, Wash.

Planholders announced for construction of a four-room and playshed addition to the elementary school at Spanaway, on which bids will be opened 8 p. m., April 23, by Bethel School District No. 403, in the superintendent's office at High School Building, Muck-Kapowsin Road, Spanaway. Mail address: Dewane E. Lamka, superintendent, Route 1, Box 289-AB, Spanaway. Plans with Harry E. Botesch, architect, and F. Edward Brown, associate, 504 Commerce Bldg., Everett.

Planholders: Noel Construction Co., 11014 Main, Bellingham; Moberg Construction Co., Route 2, Box 714, Tacoma; Pedersen Construction Co., Box 2366, Parkland; M & O Construction Co., 1323 S. K St., Tacoma; Korsmo Bros., 155 E. 123rd, Tacoma; Goettling & Sons, 2921 S. J St., Tacoma; Cross Construction Co., 207 N. Southeast, Auburn; Levage Construction Co., Box 655, Parkland; C. E. Skinner, Box 706, Orting; R. G. Foster, 11725 Pacific Highway S., Tacoma.
HH 4-17. Previous report 4-3

▲ELEMENTARY SCHOOL ADDITIONS— Spokane, Wash.

Bids received by Spokane School District No. 81, Building and Grounds Department, Spokane, for construction of additions to three elementary schools and construction of a new elementary school at Spokane. Bids opened April 10. LOW BIDS—GENERAL: Peter J. Young, 1211 E. Columbia, $213,600; Warner & Brown, 2904 N. Madelia, $214,252; Vista Construction Co., 803 S. Park Road, $223,762. MECHANICAL: Peck & Gale, S. 211 Washington, $77,770; Womack Plumbing & Heating, 328 S. Jefferson, $78,180; Adams & Little, N. 1329 Howard, $78,750. ELECTRICAL: Maxwell's, Inc., 14 E. Mission, $22,186; Kehne Electric, N. 416 Helena, $22,572; Frost Electric, 2115 N. Division, $22,751. All of Spokane.
LL 4-12. Previous report 4-9

● ST. FRANCIS OF ASSISI SCHOOL— Spokane, Wash.
(Estimated cost $230,000 first unit, $170,000 second unit)

Bids will be opened 2 p. m., April 25, by Catholic Diocese of Spokane, Most Rev. Bernard J. Topel, bishop, 317 Howard, Spokane, for construction of the first unit of a future two-unit parochial school at Heroy and Jefferson streets in Spokane. Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Select list of bidders. First unit to include a ten-classroom school; two-story; reinforced concrete foundation; steel joists; poured concrete floors over corrugated decking; concrete and brick veneer exterior.
LL 4-12. Previous report 2-19

★ ST. PETER'S CATHOLIC SCHOOL, PARISH HALL— Spokane, Wash.

Award to William Spilker & Sons, Route 5, Spokane, $121,190, by Catholic Diocese of Spokane, Most Rev. Bernard J. Topel, bishop, S. 317 Howard, Spokane, for construction of the first unit of a new church on property bounded by 18th and 20th, Thor and Freya streets, in Spokane. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldy., Spokane.
LL 4-13. Previous report 4-2

HOME FOR THE AGED— Spokane, Wash.
(Estimated cost $1,000,000)

Plans announced by T. A. Myklebust, chairman of the Riverview Lutheran Home Association in Spokane, for construction to start in the fall on a four-story Lutheran home for the aged. The site of the home, comprising an area of about two city blocks, will be located on the Spokane River near the new Washington Water Power Co. offices. Preliminary sketches call for a building having four wings, three of which will be built initially.
LL 4-13

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

GARLAND ELEMENTARY SCHOOL— Spokane, W

Following is description for construct of the eight-classroom Garland Element School, including complete service ce to be located at the site of the old sch which was damaged by fire, in Spokane, which bids will be opened 7:30 p.m., A 24, by Spokane School District No. Building and Grounds Department, W West Ave., Spokane. Slab on grade w tunnels on both sides; 2"x6" stud exte walls with brick veneer or cement asbe board, or 8" concrete blocks with or with brick veneer, or 8" brick walls; 2"x6" a 2"x4" stud interior walls or 8" concr blocks; sidewalk additions and site wo included in contract.
LL 4-13. Previous report 3-

● MOTEL— Spokane, Wa

Bids will be opened April 23 in the offi of McClure & Adkison, architects, Sherw Bldg., Spokane, for construction of six-u Wynn Motel at S. 924 Lindeke St. in Sp kane. Plans with the architects. Ced siding exterior; wood trusses; ceramic t bathrooms; natural gas fired boiler.
LL 4-

PACIFIC PAPER PLANT— Tacoma, Wa

Plans announced by Roger Molt, Pac Paper Products, Inc., for construction of industrial plant on a three-acre site on L coln Ave. in Tacoma for the production disposable professional items for use in h pitals, clinics and doctors' offices. Ini construction will solve the erection of 60'x140' prefabricated steel structure Soule' Steel Co., Box 3685, Terminal Ann Seattle. The building will be completed the end of May. Complete plans call the construction of several buildings on site, facing Lincoln Ave. just northeast Alexander Ave. in Tacoma.
SC 4-

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IG 4-17. Previous report 3-30

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IDAHO

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PAS 4/57

$14,090. Bids will be opened again April 26 (see PCD this issue) for the mechanical contract, the plans on which will be revised.
SP 4-16. Previous report 3-29

● ELEMENTARY SCHOOL (Mechanical Contract— Driggs, Idaho

Bids will be opened 8 p.m., April 26, by Teton County School District No. 401, Lowell Taylor, superintendent, Driggs, for the mechanical contract involved in construction of a new elementary school at Driggs. Plans with above office.
SP 4-16. Previous report 3-29

★EXPENDED CORE FACILITY— Idaho Falls, Idaho

Award to Paul Hardeman, Inc., 10955 W. Pico Blvd., Los Angeles, Calif., $3,392,000, by Westinghouse Electric Corp., Box 376, Idaho Falls, for construction of expended core facility at the Naval Reactor Facility, National Reactor Testing Station, Idaho, involving erection of structural steel, multipurpose building, site development and utilities; Sub-contract No. 73-(14-150).
SP 4-13. Previous report 3-7

★ROOF REPAIR— Idaho Falls, Idaho

Award to Gresham Roofing Co., 680 Canyon Road, Ogden, $6,423, by Atomic Energy Commission, Box 1211, Idaho Falls, for repairing the roof on ANP Bldg. No. 607 at the National Reactor Testing Station in Idaho.
SP 4-13

ATOMIC REACTOR FACILITIES— Idaho Falls, Idaho

Contract held by the Phillips Petroleum Co. for work at the National Reactor Testing Station near Idaho Falls has been extended from August 31, 1958, to February 28, 1961, and broad in scope to include further operations, according to Atomic Energy Commission, Idaho Falls. The Phillips company operations will now cover two additional facility operations, the Special Power Excursion Reactor Test operations and the Egnineering Test Reactor in addition to the Materials Testing Reactor, Chemical Processing Plant and eCntral Facilities service area of the testing station. DM 4-16

●■ BUILDINGS, UTILITIES, FACILITIES— Idaho Falls, Mont.

Bids to be opened 3 p.m., M.S.T., May 22, by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for construction of buildings, utilities and facilities for the Flight Engine Test Facility, Aircraft Nuclear Propulsion Project, National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-878. Plans with above office. Bid guarantee 10%. Description—(a) Construct Test Building No. 629, Control and Equipment Building No. 630, Tank Building No. 632, Chlorination Building No. 637, Cooling Tower Structure No. 717, and a gatehouse. (b) Construct access roads, parking areas, stabilized gravel areas, shielded covered roadway involving concrete, gravel, bituminous treated and bituminous paved surfaces. (c) Construction special four-rail dolly trackage. (d) Construct water, sewage, contaminated waste, fuel systems including storage tanks, distribution and supply lines and pertinent facilities. (e) Provide grading and drainage facilities. (f) Construct electrical, fire alarm, communication and lighting system. (g) Construct temporary office building including utilities and facilities for AEC use. (h) Construct security fencing. Plans and specifications are on file with Pacific Builder & Engineer, 2418 Third Ave., Seattle, Wash.

Planholders: Peter Kiewit Sons' Co., 255 Broadway, Idaho Falls; Sound Construction and Engineering Co., 1300 Aloha, Seattle, Wash.; Paul Hardeman, Inc., 10955 W. Pico Blvd., Los Angeles, Calif.; H. Halvorson, Inc., Box 6, Yardley, Wash.; Donovan Construction Co., 1725 Carroll Ave., St. Paul, Minn.; Grove, Shepherd, Wilson & Kruge, Inc., 120 6th Ave. N., Seattle; W. H. Nichols & Co., Inc., 3015 Grand Ave., Dallas, Tex.; Anderson Burke Co., 2114 Thorndyke, Seattle; George A. Fuller Co., 3100 W. 8th, Los Angeles; Rothschild, Raffin & Weirick, 274 Brannan, San Francisco, Calif.; Johnson Construction Co., 1725 N. Chicago, Salt Lake City, Utah; Fegles Construction Co., Inc., 711 Wesley Temple Bldg., Minneapolis, Minn.; James Stewart Co., 411 N. Central Ave., Phoenix, Ariz.; J. H. Wise & Son, Inc., Box 713, Idaho Falls; Terry Contracting, Inc., 31 E. 27th, New York, N.Y.; The Weitz Co., Inc., 406 Fleming Bldg., Des Moines, Iowa; C. H. Leavell & Co., 1900 Wyoming St., El Paso, Texa.; Mountain States Construction Co., 9200 W. Colfax, Denver, Colo. DM 4-17

▲SWIM POOL BUILDING ADDITION— Lewiston, Idaho

Bid received by City Council, City Hall, Lewiston, for construction of a 46'x13'4" concrete block wall addition to the swimming pool building and remodeling the existing foot bath rooms in the building at Lewiston. Bid opened April 8. ONLY BID: Kenaston & Huntley, Box 245, Lewiston, $5,248. SP 4-12. Previous report 3-30

MANUFACTURING PLANT— Lewiston Idaho
(Estimated cost $27,500)

Construction will start during April on a manufacturing plant in north Lewiston. The lessee, Dave Bamberry will supervise the work. The plant will manufacture tile and brick. SP 4-13

OIL SEED MILL— Malad, Idaho
(Estimated cost $200,000 to $1,000,000)

Plans announced by Pacific Oil Seed Co., Dr. Carl Classen, president, Woodland, Calif., for possible construction of a mill in the Malad, Idaho, area or in Utah. SC 4-16

STUDENT UNION BUILDING— Moscow, Idaho
(Estimated cost $2,500,000 to $2,000,000)

Plans announced by University of Idaho, Gale L. Mix, general manager of the Associated Students, Moscow, for a long range expansion progdam to provide additional student union facilities at the university. The program would call for extension of the existing student union building to a block-long area to the north of the present structure and an ice skating rink. If plans are approved by Board of Regents, three years would be required to complete plans and the building. Project would be financed by fees the students would levy on themselves to finance bonds. SC 4-17

● SAFEWAY STORE— Twin Falls, Idaho
(Estimated cost $250,000)

Sub-bids are being received by Ray Nielson, contractor, Box 452, Twin Falls, for items involved in construction of a one-story 18,000 sq. ft. Safeway store at the new Lynnwood Shopping Center in Twin Falls. Owner of the center is Lynnwood Development Co., 580 Alturas Drive, Twin Falls. Plans by Haines & Purhonen, architects, 64 E. 4th South, Salt Lake City. For additional details on the complete shopping center see Lynnwood Shopping Center, Twin Falls. PCD 3-28. Partial basement; solid masonry walls; concrete slab floors; timber girders, beams, columns; flat roof; aluminum windows; block interior walls; exposed masonry partitions; asphalt tile flooring; exposed beam ceilings; automatic doors; incinerator; gas fuel. GH 4-13

MONTANA

SCHOOL REMODELING— Alberton, Mont.

Bond issue for $127,000 approved in the April 6 election held by Missoula-Mineral Joint School District No. 2, Alberton, for financing construction of a new school gymnasium and remodeling of the old high school gymnasium into classrooms and other facilities at Alberton.
SC 4-16. Previous report 3-29

MEN'S DORMITORY— Billings, Mont.

A federal loan in the amount of $340,000 has been approved for construtcion of a three-story, 100-bed men's dormitory at Rocky Mountain College, 1511 Poly Drive, Billings. EE 4-12

APARTMENT BUILDING— Billings, Mo
(Estimated cost $600,000)

Approval of plans has been requested the City Council, City Hall, Billings, Billings Cooperative Apartments, F. Ripley, Inc., representavite of owner organization, 616 Clark Ave., Billings, for construction of a six-story steel and concrete operative apartment building on a fi acre site at Lohof Drive and Rimrock R in Billings. The building would contain one- to three-room apartments on each fl A 36-car heated garage would be includ EE 4-

HIGHWAY BUILDING— Billings, Mo
(Estimated cost $190,000)

Loners & Stroebe, architects, 418 N. 2 St., Billings, have been retained by Monta State Highway Commission, State Capit Helena, to prepare plans and specificatio for a new building to house shop and oth facilities for Montana Highway Division 3 at Billings. EE 4-12. Previous report 3-

ELEMENTARY SCHOOL ADDITIONS— Billings, Mo

Architects have been retained by Yellowstone County School District No. 2, Billi for construction of additions to three e mentary schools at Billings. Architects as follows: MILES AVE. SCHOOL (eig classrooms — Walter Kuetzing, Hart-Al Bldg., Billings. BURLINGTON SCHO (four classrooms): Nordquist & Sund 1233 N. 27th St., Billings. NEWM SCHOOL (four classrooms): Chandler Cohagen, Hedden Bldg., Billings.
EE 4-12. Previous report 3-

CONCRETE PLANT— Billings, Mo
(Estimated cost $200,000)

Construction underway by Midland M terials Co., M. G. Long, president, 748 2 St. W., Billings, for a prestressed concr plant, to be located on a 10-acre site adj ing the firm's asphaltic concrete facili at the above address in Billings. Complet time June 1. EE 4-

EMPLOYMENT SERVICE OFFICES— Billings, Miles City, Mo

Plans discussed at meeting held by Mo tana State Board of Examiners, G. L. Bry executive secretary, Capitol Bldg., Hele and the Unemployment Commission, Cha wick H. Smith, chairman, Helena, for co struction of six new employment servi office buildings, the first two of which w be located in Billings and Miles City. Fu in the amount of $270,000 have been a propriated by the government for the pr ects. An architect for the buildings has yet been selected. The Billings building w be the largest employment office in t state, providing quarters for 23 emplo and will have frontage of 40' or more; e mated cost $50,000. The Miles City build will provide quarters for six employes a will have frontage of 30' or more; estimat cost $20,000. EE, LS, RB 4-

EAGLES LODGE ADDITION— Billings, Mo
(Estimated cost $70,000)

Working drawings underway by Nordqu & Sundell, architects, 1233 N. 27th St., B ings, for construction of a third story a dition to the present two-story Eagles Lod building at 2822 Minnesota Ave. in Billin for Billings Aerie No. 176, Fraternal Or of Eagles. The addition will house an eig lane bowling alley. EE 4-

SCHOOL CONSTRUCTION— Butte, Mo

Bond issue for $2,459,380 approved in April 6 election held by School District N 1, George Haney, superintendent, 111 Montana St., Butte, to finance construct of three new grade schools, repairs a alterations to 10 other schools and constru tion of an addition to the physical depart ment of Butte High School.
LS 4-16. Previous report 3-

★V.F.W. CLUB— Chester, Mo

Award to Hi Aubrey, Inc., Box 257, Shelb $46,622 (combination bid), for construct of a V.F.W. club building at Chester. Pla

by Hoiland & Lund, architects, Electric Bldg., Great Falls.
SP 4-17. Preivous report 4-9

COLLEGE BUILDINGS— Dillon, Mont.

Description is given below on a two-story 142'x30' married students' apartment building, a two-story 118'x40' men's dormitory, a one-story 102'x141' student union building and a one-story 80'x33' faculty residence at the Western Montana College of Education, Dillon. Bids will be opened 2 p. m., May 2, by State Board of Education, State Capitol Bldg., Helena. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite, Butte.

Faculty residence of frame with brick veneer, wood floor, built-up tar and gravel roof, frame partitions finished with wood lath and plaster, wood stairway, steel window, plaster ceiling, wood doors, hot water, electrical heating system; other buildings of prestressed concrete, concrete slab floor, built-up, concrete slab roof, masonry partitions, concrete stairway, steel window, ceramic tile and terrazzo flooring, heating from central heating system.
LS 4-16. Previous repore 4-10

▲SACRED HEART PARISH CHURCH— Dodson, Mont.

Bids received by Most Rev. William J. Condon, bishop of Great Falls, in the Ladies Club House, Dodson, for construction of the one-story 49'x37' Sacred Heart Parish Church at Dodson. Plans by George H. & Frank B. Shanley, architects, 201 Barber-Lydiard Bldg., Great Falls. Bids opened April 1. LOW BIDS: Bertus Construction Co., Lewistown, $36,975; Oliver Schubert, Chinook, $38,161; Ted Parker, Glasgow, $39,-421. EE 4-16. Previous report 3-30

■ MAINTENANCE SHOP— Fort William H. Harrison, Mont.

Planholders announced for construction of a 226'x80' National Guard repair and maintenance shop, including office, paint shop, leather shop and steam cleaning shop, at Fort William H. Harrison. Bids will be opened 10 a. m., May 9, by Utah State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena. Plans with Ostheimer & Campeau, architects, Granite Block, Helena.

Planholders: John Bergum, 915 Poplar St.; Al Johnson, 326 Allen St.; Underseth & Logan, 916 Harrison Ave. All of Helena.
LS 4-13. Previous report 4-9

● FAMILY HOUSING—Glasgow AFB, Mont.

Bids will be opened 2 p. m., May 23, by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla, for construction of family housing at Glasgow AFB, near Glasgow, Valley County, Mont.; ENG-45-164-57-40. Specifications with above office. $100 deposit. Bid bond 20%.

SCHED. A (170 Family Quarters): 205,000 sq. yd. stripping; 70,000 c.y. excavation; 91 ton asphalt cement; 3,910 sq. yd. concrete walks; 19,040' water line; 19,050' sanitary sewer line; 2,206' concrete storm drain or 2,212' corrugated metal storm drain. SCHED. B (170 Family Quarters): 205,000 sq. yd. stripping; 70,000 c.y. excavation; 19,490' water line; 19,050' sanitary sewer line; 2,206' concrete storm drain or 2,312' corrugated metal storm drain. SCHED. C (180 Family Quarters): Quantities identical to Sched. A and B. SCHED. D (190 Family Quarters): Quantities identical to above schedules. SCHED. E (200 Family Quarters): Quantities identical to above schedules. SP 4-17

★POWER SCHOOL ADDITION— Great Falls, Mont.

Awards announced by School District No. 1, 1015 1st Ave. N., Great Falls, for construction of an addition to the Power School in Great Falls. Plans by McIver, Hess & Haugsjaa, architects, Strain Bldg., Great Falls. Completion time September 3, 1957. AWARDS—GENERAL: Burt Talcott, Builder, 2600 9th Ave. N., Great Falls, $45,107. MECHANICAL: Klemencic Plumbing & Heating, 2200 9th Ave. N., Great Falls, $29,-852. ELECTRICAL: Goggans & Pennie, 1106 Central Ave., Great Falls, $9,585. Addition will provide high school facilities for a complete home economics department; science department; general classroom; storage areas; toilet facilities; new gymnasium; complete new heating plant for the original building; fire alarm system and clock and program system for the existing school.
SC 4-12

FIRESTONE STORE REMODELING— Great Falls, Mont.

Bids received in January by Firestone Tire & Rubber Co., Los Angeles, Calif., for remodeling the company store in Great Falls were not acceptable and construction plans have been postponed. Plans were prepared by Page & Werner, architects, Box 500, Great Falls. DM 4-16. Previous report 1-25

RESTAURANT ADDITION—Kalispell, Mont.

Construction underway for a 20'x40' addition to provide additional dining space at Hennessy's Steak House at the south edge of Kalispell near U. S. 93. Completion expected by May 1. RB 4-16

STORE FRONTS— Kalispell, Mont.

Construction underway by Bob Erickson, Route 1, Kalispell, for new store fronts on adjoining buildings at 124 and 128 Main St. in Kalispell, for Johns Hardware and Taylor & Roe Men's Furnishings. Completion time May 1. RB 4-16

SWIMMING POOL— Lewistown, Mont.
(Estimated cost $151,164)

Bond issue defeated in the April 1 election held by Lewistown Park Board, City Hall, Lewistown, for funds to finance construction of the proposed new swimming pool and bathhouse at Lewistown. Morrison & Maierle, Inc., consulting engineers, 910 Helena Ave., Helena, have advised that the present pool be abandoned.
LS 4-12. Previous report 1-26

SCHOOL— Lolo, Mont.
(Estimated cost $45,495)

Bids will be called in May by School District No. 7, Lolo, for construction of a 3,450 sq. ft. frame school building at Lolo. Plans by Witwer & Price, architects, 107 E. Main, Missoula. $15 deposit when bids are called. Building will include built-up asbestos felt roofing, asphalt tile flooring and hot water heating system. SP 4-13. Previous report 3-5

UNIVERSITY EXPANSION—Missoula, Mont.

Plans announced by Montana State University, Carl McFarland, president, Missoula, for a three-year university expansion program. The three major projects planned fo 1957-58 include extension of the chemistry-pharmacy building, new medical research laboratories and a chapel extension. Projects planned for 1958-59 include women's dormitory to connect Corbin and Turner Halls, new men's dormitory and a reserve officers' training corps building (if congressional approval gives matching funds). Projects for 1959-60 include another addition to the liberal arts building, physical science building, extension of the music building, a major addition to the library and an addition to the fine arts (old student union) building. Plans have also been outlined for construction of a road to go around the campus at the foot of Mount Sentinetl, behind Dornblaser Field. SC 4-17

★SCHOOL ADDITION— Power, Mont.

Awards announced by Power School District No. 30, Power, for construction of a three-classroom addition to the school at Power. Plans by McIver, Hess & Haugsjaa, architects, Strain Bldg., Great Falls. Bids opened April 3. GENERAL—AWARD: Burt Talcott Builder, 2600 9th Ave. N., $45,107. 2ND LOW: C. E. Mitchell, 408 4th Ave. S., $49,610. 3RD LOW: J. E. Beaulaurier & Sons, Box 2016, $51,350. MECHANICAL—AWARD: Teton Plumbing & Heating, $30,-987. LOW BID (not acctped): Klemencic Plumbing & Heating, 2512 9th N., $29,852. 3RD LOW: Mehl Plumbing Co., 815 Central Ave., $31,155. ELECTRICAL—AWARD: Goggans & Pennie, 1106 Central Ave., $9,585. 2ND LOW: Rowe Electric Co., 410 1st Ave. S., $9,886. 3RD LOW: Cascade Electric Co., 903 10th Ave. N., $9,960. All of Great Falls.
SP 4-17. Previous report 3-29

SCHOOL CONSTRUCTION—Sidney, Mont.

Bond issues of $50,000 and $30,000 approved in the April 6 election held by Richland County School District No. 5 and Sidney High School District, Sidney, to finance construction of six-classroom addition ($50,-000) and a vocational agriculture shop addition ($30,000) at the high school. The $350,000 bond issue for a junior high school will be voted upon later.
EE 4-17. Previous report 2-8

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■ **HOSPITAL— Warm Springs, Mont.**

Planholders announced for construction of a 190-bed hospital and receiving building addition to the State Mental Hospital at Warm Springs, on which bids will be opened 10 a. m., April 25, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena. Plans with Knight & van Teylingen, architects, Medical Arts Bldg., Great Falls.

Planholders—GENERAL: Lowe Construction Co., Box 883, Billings; Cahill-Mooney Construction Co., 1220 E. Front, Butte; C. B. Lauch Construction Co., Box 1577, Boise, Idaho; Pew Construction Co., 301 Walnut, Missoula; Leigland Construction Co., Box 1862, Great Falls; J. C. Boespflug, Box 1237, Billings; Witty Construction Co., 815 25th N., Great Falls; H. Halvorson, Inc., Box 6, Yardley, Wash. MECHANICAL: Larson & Co., Box 1707, Salt Lake City; Fullerton Plumbing & Heating, 401 W. Main, Hamilton; Reber Plumbing & Heating, 805 N. Main, Helena; Christiansen Plumbing & eHating, 3615 Montana Ave., Billings; Columbus Plumbing & Heating, 756 Broadway, Sheridan, Wyo.; Reardon Plumbing & Heating, 129 E. Park, Butte; Sundberg Plumbing & Electric Co., 102 E. Park, Butte; Missoula Hardware & Plumbing Co., 228 N. Higgins, Missoula. ELECTRICAL: Palmquist Electric, 420 N. Main, Helena; Yellowstone Electric Co., 520 N. 32nd, Billings; Sundberg Plumbing & Electric Co., Butte; Kehne Electric Co., N. 416 Helena St., Spokane, Wash.; Curley-Naylor Electric Co., 123 N. 16th, Billings.

LS 4-13. Previous report 3-23

RESIDENCE— Wolf Point, Mont.

Working drawings are underway and bids will be called about mid-June by Dr. Mark Listerud, 1815 E. Thomas, Seattle, for construction of a one-story 2,000 sq. ft. clinic in Wolf Point, Mont. Plans by B. F. McAdoo, Jr., architect, 1718 Olive Way, Seattle. Plans call for: partial basement; masonry walls, pumice block, obscure glass, stone exterior; steel beams, steel posts; steel roof decking; plaster partitions; rigid ceiling insulation; vinyl tile; gas-fired furnace; central air conditioning.

PD 4-17

WYOMING

■ **PRESBYTERIAN CHURCH—Casper, Wyo.**

Planholders announced for construction of a three-story 13,500 sq. ft. classroom area for the Casper First Presbyterian Church, on which bids will be opened 2 p. m., April 23, by the church, Rev. W. W. Birby, pastor, 804 S. Wolcott St., Casper. Plans with Robert Wehrli, architect, 829 Cy Ave., Casper.

Planholders—GENERAL: Continental Construction Co., 1509 Carbon Ave., Cheynne; Dougherty & Novotny, Box 1841, Casper; J. Jones, Contractor, Inc., 943 E. 14th St., Casper; Lane-Owens Co., Box 203, Casper; L. D. Liesinger Construction Co., Inc., 733 E. 14th, Casper; Nielson Construction Co., 1919 S. Boxelder St., Casper; L. W. McDowell, 2047 Sage, Casper; Roy C. Simpson, 1607 S. Elm St., Casper; Riedesel-Lowe Co., Box 914, Cheyenne. MECHANICAL: Big Horn Plumbing & Heating, Box 130, Lander; Christensen Plumbing & Heating, Box 1707, Lander; Doyle's, Inc., Box 396, Casper; Kistler Plumbing & Heating, Box 420, Casper. ELECTRICAL: American Electric Co., Box 494, Casper; Modern Electric Co., Box 2107, Casper; Ostlind Electric Co., 227 W. Yellowstone, Casper; Simpson Electric Co., Box 777, Casper; Union Electric Co., 142 S. Durbin St., Casper. LY 4-16. Previous report 4-3

● **REFRIGERATION SYSTEM ALTERATIONS— Cheyenne, Wyo.**

Bids will be opened 1:30 p. m., June 4, by the Manager, Veterans Administration, Supply Office, VA Hospital, Cheyenne, for alterations to the refrigeration system at the hospital; Proj. 49-5063. Specifications with above office. Project includes removal of existing ammonia brine system and installation of freon 12" systems; new deep freeze refrigeration; installation of quarry tile floors.

LY 4-12

STADIUM, ATHLETIC FIELD— Cheyenne, Wyo.

Bond issue for $175,000 approved in the April 2 election held by School District No. 1, Samuel Clark, superintendent, 2118 Central Ave., Cheyenne, to finance construction of a high school athletic field and 4,000-seat stadium to be located about ½ mi. east of the Veterans' Hospital and several blocks south of Pershing Blvd. in Cheyenne.

LY 4-12. Previous report 3-8

AUDITORIUM-GYMNASIUM—Hudson, Wyo.

Bond election will be held April 23 by Hudson School District, Mike Vinich, trustee president, Hudson, for a $23,000 bond issue to finance construction of a combination auditorium and gymnasium for Hudson Grade School.

LY 4-16

■ **GRADE SCHOOL— Hulette, Wyo.**

Planholders announced for construction of a 60'x70' four classroom addition to the Hulett Grade School, on which bids will be opened 7:30 p. m., April 23, by Crook County School District No. 10, at the Hulett School Building, Hulett. Plans with Harrison L. Cook & Associates, architects, 119 N. Main, Sheridan.

Planholders—GENERAL: Julien Construction Co., Box 889, Newcastle; Charles Johnson, Contractor, 1450 Val Vista St., Sheridan; Denkens & Tschetter, Box 12, Sundance. HEATING, PLUMBING: Carl Ostlund, Gillette. VENTILATING: Frickey Sheet Metal Works, Inc., 545 N. Main St., Sheridan; Prill Bros., 40 E. 5th St., Sheridan. ELECTRICAL: Mike's Electric Service, 1726 N. Main St., Sheridan. LY 4-16. Previous report 4-5

● **RESIDENCE— Riverton, Wyo.**

Bids will be opened 2 p.m., April 16, by C. J. Murphy, in the office of Moran & Murphy, attorneys, Masonic Temple Bldg., Riverton, for construction of a one-story structural tile and concrete residence on Tract 12, Broadacres Subdivision, Riverton. Plans with Robert Wehrli, architect, 829 Cy Ave., Casper. $25 deposit. Certified check or bid bond 5%. Building will measure 25'x 65' plus 48'8"x24'8" attached garage. SC 4-13

HANGAR— Torrington, Wyo.

Bids will be called soon by City Council, City Hall, Torrington, for construction of an administration building, hangars, 5,200' runway and lighting at the Municipal Airport in Torrington. Plans and specifications by Harold Hoskins & Associates, consulting engineers, 725 9th St., Greeley, Colo.

LY 4-12. Previous report 9-28, 1956

UTAH

● **COUNTY SHOPS— Midvale, Utah**
(Estimated cost $250,00)

Bids will be opened 10:30 a.m., May 6, by Salt Lake County Commissioners, City-County Bldg., Salt Lake City, for construction of the new Salt Lake County shops on a 22-acre site at 7200 South between the Denver and Rio Grande and Union Pacific Railroad tracks, in the vicinity of 700 West, in Midvale. Plans with William E. Nelson, architect, 2021 S. 2nd East, Salt Lake City,. $25 deposit. Bid bond 5%. The new building will replace the old county shops at 4725 S. State St. in Salt Lake City, and will include county storage, garage and office facilities.

GH 4-13. Previous report 2-2

● **JUNIOR HIGH SCHOOL— Salt Lake City, Utah**

Bids will be opened 7:30 p.m., May 21 (extended from tentative date of May 7), by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for construction of the 1,200-stude East Mill Creek Junior High School at 3 South and 3100 East in Salt Lake City. Pla with Lorenzo S. Young, architect, Cont nental Bank Bldg., Salt Lake City.

GH 4-12. Previous report 4-

UNION BUILDING ADDITION, REMODELING— Salt Lake City, Uta
(Estimated cost $150,000)

Plans will be complete late in April f construction of a one-story 16'x35' (560 s ft). addition to and remodeling of the ol Union Bldg. for classroom use at the Un versity of Utah in Salt Lake City, on whic bids will be called by Utah State Buildin Board, Jerry G. King, superintendent o construction, 419 State Capitol Bldg., Sal Lake City. Plans by Haines & Purhonen architects, 64 E. 4th South, Salt Lake City

GH 4-13. Previous report 1-1

■ **NORTHWEST JUNIOR HIGH SCHOOL— Salt Lake City, Uta**

Planholders announced for construction o the one-story 300'x500' Northwest Junio High School at 150 N. 13th West in Salt Lak City, on which bids will be opened 3:30 p.m. April 23, by Salt Lake City Board of Edu cation, Dr. M. Lynn Bennion, superinten dent, 440 E. 1st South, Salt Lake City. Plans with William F. Thomas, architect, 19 W. S Temple, Salt Lake City.

Planholders: Johnson Construction Co 1725 Chicago St.; Alfred Brown Construc tion Co., Dooly Bldg.; Fredrickson Build ers, 4670 Redwood Road; Christiansen Bros Co., 209 W. 13th South; Paulsen Construc tion Co., 1425 Jefferson St.; Maurice B McCullough, 503 13th Ave. All of Salt Lak City.

GH 4-13. Previous report 3-

● **LOBBY EXPANSION— Salt Lake City, Uta**

Extended bid opening date established a 10:30 a. m., April 23, by Salt Lake City Cor poration, L. C. Romney, commissioner o parks and public property, City-Count Bldg., Salt Lake City, for addition of 3,30 sq. ft. lobby space in the administratio building at Salt Lake City Municipal Air port No. 1, Salt Lake City. Plans with Ash ton, Evans & Brazier, architects, 24 S.W Temple, Salt Lake City.

GH 4-16. Previous report 4-

COUNTY JAIL RENOVATION— Salt Lake City, Uta
(Estimated cost $109,000, first phase)

Plans will be complete June 1 for the fir phase of renovation to the county jail i Salt Lake City, including renovation of th plumbing system, cell remodeling (includin plate steel), roof repair, cell gates, tracts an controls, shower room repair and new wir ing. Plans by Deseret Architects & Engi neers, Ness Bldg., Salt Lake City. Bids wil be called by Salt Lake City Corporation Roy W. McLeese, city engineer, City-County Bldg., Salt Lake City.

GH 4-17. Previous report 3-2

OFFICE BUILDINGS—Salt Lake City, Utah
(Estimated cost $2,500,000)

Plans announced by Utah Power & Light Co., E. M. Naughton, president and general manager, Kearns Bldg., Salt Lake City, for a building and real estate acquistion program to house its general administrative and sales staff in the Salt Lake area. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City. Plans include construction of a 60,000 sq. ft. addition to the firm's Operation Center (estimated cost $1,700,000) at 1359 W. North Temple St. in Salt Lake City. Also to be conctructed is a new three-story general administrative office building on W. North Temple, adjacent to present structures at the center. Year-round air conditioning with electrical heat pumps, acoustical treatment throughout and latest lighting systems are among appointments of the planned office building.

SC 4-17

● **CHAPEL— Taylorsville, Utah**
(Estimated cost $250,000)

Bids will be received until midnight, April 26, by LDS Church Building Committee, 6 E.S. Temple, Salt Lake City, for construc-

Up to the minute news on all types of building and engineering construction in the states of Oregon, Washington, Idaho, Montana, Wyoming, Utah and in Alaska, will be found in these columns.

tion of a new 2nd Ward LDS chapel at Taylorsville. Plans with Richard H. Johnson, architect, 209 Zions Savings Bank Bldg., Salt Lake City. Bid bond 5%.

One-story; boiler room in basement; 20,505 sq. ft.; concrete footings and foundation; solid masonry walls; concrete floors; concrete girders, beams, columns; timber deck roof; block partitions; steel sash; brick exterior, wood veneer and block interior wall finish; vinyl tile flooring; acoustical exposed wood deck ceiling; folding doors, blackboards; window wall unit and roof deck insulation; hot water heating system, gas fuel.

GH 4-13. Previous report 3-12

▲WAREHOUSE— Vernal, Utah

Bids received by Bureau of Reclamation, Vernal, for construction of a one-story steel warehouse building north of Vernal for Flaming Gorge Government Community, Flaming Gorge Unit, Utah, Green Division, Colorado River Storage Project; DC-4870. Bids opened April 9. LOW BIDS: Nelson Bros. Construction Co., 347 W. 16th South, Salt Lake City, $223,295; Witt Construction Co., 1487 State St., Provo, $227,255; Alder-Child Construction Co., 438 E. 4th South, Salt Lake City, $228,365.

SP 4-16. Previous report 3-26

▲CLINIC DISPENSARY ALTERATIONS— Wendover AFB, Utah

Bids received by U. S. Air Force, Purchasing & Contracting Office, Bldg. 214, Wendover AFB, for installation of air conditioning and alterations to the clinic, Bldg. 2604, and remodeling and installing of equipment in the dispensary, Bldg. 2600, Wendover AFB. Bids opened April 15. LOW BIDS: L. H. Butcher Co., 407 W. 17th South, Salt Lake City, $11,130; Paul W. Larson Construction, Inc., 361 W. 4th South, Salt Lake City, $13,-953; Security Constructio Co., 5875 Holladay Blvd., Salt Lake City, $14,507.

SP 4-12. Previous report 4-2

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

★STREET EXCAVATION WORK— Bend, Ore.

Award to Duncan Bros., Blakely Heights, Bend, $37,238 (total), $24,920 (streets), $12,317 (sidewalks), by City Council, City Hall, Bend, for all excavations in the 1957 street and sidewalk improvement program in Bend.

SC 4-13

SUBSTATIONS, TRANSMISSION LINES— Chiloquin, Ore.

(Estimated cost $1,048,000)

A three-phase power program has been voted by the board of directors of California Oregon Power Company, according to Sam I. Ritchey, Klamath County manager; (1)—Construction of a new substation near Chiloquin, Ore., in Klamath County, to tap the 230,000-volt line running east of the $12 million Johns-Manville Corp. plant being constructed south of Chiloquin and north of Klamath Falls; (2)—building of six miles of transmission line from the substation to the Johns-Manville site to deliver power at 4,000 volts to the insulating board plant whose use is expected to be 8,000 kilowatts, or approximately one-third of the Klamath Falls metropolitan area. Company crews will do the work. Completion expected during 1957.

ZZ 4-12

SEWAGE TREATMENT PLANT, LINES— Clatskanie, Ore.

Bids will be opened 8 p. m., May 6 (tentative) by city recorder, Roland J. Pascoe, Clatskanie, for sanitary and interceptor sewers, three pumping stations and sewage treatment plant. Advertisement for bids is pending receipt of approval from the Oregon State Sanitary Authority and Public Health Service. Plans are expected to be available about Apirl 16 from N. W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland. $25 deposit ($10, Schedule 1; $5, Schedule 2; $10, Schedule 3). Certified check, cashier's check or bid bond 5%.

SCHEDULE I—5,400' of 6" to 14" sanitary and interceptor sewers; pressure sewer for Clatskanie River crossing; service line to treatment plant. SCHEDULE II — Sewage Lifts No. 1 and No. 2 are pneumatic ejectors; main lift is pneumatic ejector with alternate for pumps. SCHEDULE III—Complete sewage treatment plant with primary clarifier, digester unit, sewage shredder, high rate filter and secondary clarifier, contact chamber, sludge drying beds, laboratory and chlorinator building and recirculating pumps. Financing by general obligation bonds and federal grant. WB 4-12. Previous report 11-20

★TELEPHONE LINE— Colton, Ore.

Award to Power Communications, Inc., 8435 S.E. 17th Ave., Portland, $45,688, by Colton Telephone Co., William Swain, manager, Colton, for construction of 14.120 mi. pole line open wire, 23.935 mi. joint use open wire and 4.682 mi. aerial cable in the Town of Colton and surrounding rural areas, Clackamas County, Ore.; Oregon 521 A, Colton. Plans and specifications by Roberty Welty, consulting engineer, Box 282, The Dalles.

SP 4-13. Preivous report 4-9

★TELEVISION TOWER— Corvallis, Ore.

Award to C. H. Fisher & Associates, 6100 N.E. Columbia Blvd., Portland, $9,700, by Oregon State Board of Higher Education, Commerce Bldg., Oregon State College, Corvallis, for furnishing and erecting a 200' television tower.

SP 4-13. Previous report 4-4

▲WATER TANK, WELL— Corvallis, Ore.

Bids received by George Simerville, city recorder, City Hall, Corvallis, for construction of a 100,000-gallon steel water tank on a 100' tower and for drilling and casing a 12" well, approxiamtely 55' deep, at the Corvallis Municipal Airport approximately three mi. south of Corvallis. Bids opened April 15. LOW BIDS: Gunderson Bros. Engineering Corp., 4700 N.W. Front, Portland, $38,680; American Pipe & Construction Co., Box 1898, Portland, $43,475; Chicago Bridge & Iron Co., White-Henry-Stuart Bldg., Seattle, $43,960.

SP 4-17. Previous report 4-6

●TRANSFORMER ADDITION—Drain, Ore.

Bids will be opened 3 p. m., April 26, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 6-kva transformer addition at the Drain substation, located on the east side of the S.P. R.R. right-of-way and approximately one block south of the High School playground, Drain, Douglas County, Ore.; Inv. No. 8352. Specifications with above office. Bid bond 25%. Quantities: 140 c.y. structural excavation; 28 c.y. reinforced concrete fotings; 8,250 lb. steel erection; 10 c.y. crushed rock; installation of station equipment; painting.

SC 4-13

▲SEWERS, PAVING— Eugene, Ore.

Bids received by Robert A. Finlayson, city manager, City Hall, 11th and Willamette, Eugene, for installation of sanitary sewers on Spring Blvd. and 27th Ave. (Item 1), 34th Ave. area (Item 2), storm sewers on 28th and 29th Ave. and Oak (Item 3), Grant and 18th Ave. (Item 4), between 24th and 27th from Monroe to Jackson (Item 5); paving Ferry St. from 40th to 41st Ave. and alley between University and Onyx St. from 21st and 22nd Ave. Bids opened April 11. LOW BIDS—SEWERS—ITEM 1: T. C. Wildish, 5001 Franklin Blvd., $5,947; E-W Construction Co., 3170 W. 11th Ave., $7,516. ITEM 2: E-W Construction Co., $3,258; T. C. Wildish, $3,290; Jeske Bros., 1870 Pacific Highway N., $3,434. ITEM 3: Jeske Bros., $19,911; T. C. Wildish, $22,006. ITEM 4: Bruce Keen, 1095 B St., Springfield; T. C. Wildish, $4,643; Jeske Bros., $4,834. ITEM 5: Bruce Keen, $17,285; Jeske Bros., $18,090; T. C. Wildish, $21,025. STREET PAVING: T. C. Wildish, $17,450; Stanton Payne 2745 River Road, $17,607; Central Heat, 865 Olive, $18,-173. ALEY PAVINGL: T. C. Wildish, $2,466. All of Eugene unless noted.

DW 4-16. Previous report 4-4

▲PARKING LOT— Eugene, Ore.

Bids received by Lane County Commissioners, Courthouse, Eugene, for construction of a 100'x160' parking lot on the quarter block to the northwest of the intersection of 7th Ave. and Oak St. in Eugene. Plans by Wilmsen & Endicott, architects, 868 13th Ave. E., Eugene. Bids opened April 15. LOW BIDS: John Steinmuller, Jr., Box 3302, Eugene, $12,054; Leonard Wildish, 1211 Park Ave., Eugene, $12,165; Cascade Contractors, Box 774, Eugene, $12,345.

DW 4-17. Previous report 4-11

▲NORTH JETTY REPAIR— Florence, Ore.

Bids received by Corps of Engineers, Portland district office, 628 Pittock Block, Portland, for repair of the north jetty at the mouth of the Siuslaw River near Florence; CIVENG-35-026-57-212. Bids were opened April 15. Only Bids: George Chicha Co., E. 2917 Sharp, Spokane, $404,200; G. D.

ALASKA

▲SCHOOL ADDITION— Anchorage, Alaska

Bids received by Anchorage Public School District, Charles H. Davis, superintendent, Anchorage, for construction of a multipurpose room adddition to Denali Elementary School at 8th and A streets, Anchorage. Plans by Maynard L. Taylor, architect, 447 4th Ave., Anchorage. LOW BIDS: Cupples Construction Co., 744 E. 3rd, Anchorage, $181,117; Western Construction Co., Box 2274, Anchorage, $185,800; Sandland Construtcion Co., $186,830. Bids opened April 9.

DC 4-12. Previous report 3-27

●CHURCH— Anchorage, Alaska

Bids to be opened April 23 in the office of Edwin B. Crittenden, 815 13th, Anchorage, architect, for construction of the first unit of the Lutheran Church of Hope plant. Crittenden is associate architect on the project, and Thorson, Thorson & Madsen, Forest City, Iowa are architects. Bids will be taken on L-shaped, frame building which will be one of five units in a long range program which concludes with the church proper.

DC 4-13

ARMORY— Anchorage, Alaska

(Estimated cost $673,580)

The Territorial Military Department has requested a loan for the construction or renovation of ten National Guard armories throughout Alaska, with the basic armory to be located in Smith Memorial Park, possibly on 18th Ave. between C and Gambell streets, in Anchorage. Plans for the Anchorage armory by Edwin B. Crittenden & Associates, Box 358, Anchorage. The armory will contain 28,500 sq. ft. and will include a large gymnasium-type drill hall, four classrooms, offices and storage space, kitchen, rifle range, locker and shower rooms and a garage.

SC 4-16. Previous report 11-29

Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $499,600. Engineers estimate $408,000. WB 4-16. Previous report 4-11

▲TRANSMISSION LINE—Forest Grove, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing and construction of the Keeler-Forest Grove 115-kv transmission line No. 2 and rebuilding a 3.5 mi. section of the St. Johns-Forest Grove 115-kv transmission line, Washington County, Ore.; Inv. No. 8327. BIDDERS: R. C. Hughes, 2105 N. Airport Way, Spokane, (Schedule I) $76,250, (Schedule II) $20,060; Sierra Electric Co., 1269 N. Russett, Portland, $78,032, $27,505; N. Idaho Construction Co., Box 190, Couer d'Alene, Idaho, $78,070, $21,180; Tyee Construction Co., 1901 23rd Ave. S., Seattle, $85,198, $20,156. Bids received April 15.
WB 4-17. Preivous report 4-12

■REINFORCED CONCRETE BRIDGE—Hills Creek Reservoir, Ore.

Planholders announced for construction of a reinforced concrete bridge on relocated County Road No. 360 over Salt Creek at Hills Creek Reservoir on Middle Fork Willamette River, Ore.; CIVENG-35-026-57-206. Bids will be opened 2 p.m., P.S.T., April 24, by Corps of Engineers, 628 Pittock Block, Portland.

Quantities: 952,000 c.y. common waste excavation; 917,000 c.y. rock excavation; 11,000 c.y. tunnel excavation; 22,000' drilling; 24,000 lb. structural steel in tunnel; 415' drainage tunnel; 9,476,000 c.y. compacted fill; 530,000 c.y. rock fill; 70,000 dumped stone revetment; 18,500 c.y. concrete, spillway; 400 c.y. concrete, bridges; 4,250 c.y. concrete, tunnels; 11,000 c.y. intake tower; 14,000 c.y. concrete, channels and culverts; 400 c.y. concrete salb, cut-off trench; 185' concrete drain pipe; 59,000 bbl. portland cement; 1,730,000 lb. reinforcement steel; 306,000 lb. structural steel; 118,000 lb. steel pipe and fittings.

Planholders: C. J. Eldon, P. O. Box 5686; Teeples & Thatcher, 8850 S.E. Otty Road; Valley Construction Co., 6100 N.E. Columbia Blvd.; John L. Jersey, 3647 S.E. 34th Ave.; Natt McDougall Co., 824 Pittock Block; Schrader Construction Co., 3030 S.E. Hawthorne Blvd.; Hamilton & Thoms, P. O. Box 726, Eugene; R. & M. Construction Co., P. O. Box 426, Central Point; Tom Lillebo, P. O. Box 365, Reedsport. Of Portland except as noted. WB 4-17. Previous report 4-9

WATER DISTRICT— Keizer, Ore.

Consulting engineer will be retained soon by Keizer Water District, Robert O. Smith, water board chairman, 3795 N. River Road, Salem, to prepare plans and specifications for installation of 22 miles of water mains and hydrants, and possibly wells, pumps and storage tanks, depending on selected source of water supply, at Keizer. Bids will be called in June. CP 4-13. Previous report 3-28

●BEAR AND ALDER CREEK BRIDGES—Lakeview, Ore.

Bids will be opened 2 p.m., P.S.T., May 2, by U.S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of treated timber Bear Creek Bridge and treated timber and concrete Elder Creek Bridge, Fremont National Forest, Lake County, Ore.; Inv. No. 207. Plans with supply officer or Supervisor, Fremont National Forest, Post Office Bldg., Lakeview, Ore.

Both projects are accessible from either Paisley or Lakeview. Bear Creek Bridge is located on Forest Road No. 330 approximately 8 mi. south from State Highway No. 31 (junction of two roads is at Paisley). Elder Creek Bridge is also located on Road No. 330, approximately 11 mi. south of Bear Creek Bridge. Bear Creek involves 2,500 lbs. structural steel and 13 Mbm treated timber. Elder Creek involves 7,000 lbs. structural steel, 65 Mbm treated timber (glue lam.) and 12 Mbm treated timebr.
WB 4-17

▲EARTHWORK, PIPELINES, STRUCTURES— Medford, Ore.

Bids received by Bureau of Reclamation, Bldg. 234, Camp White, Ore., for earthwork pipelines and structures of Yankee Creek sipon and Antelope Creek siphon and wasteway, Medford Canal rehabilitation near Medford, Rogue River Basin Project, Ore.; DC-4735. Bids opened April 9. LOW BIDS: Cherf Bros. Inc. and Sandkay Contractors, Inc., Box 938, Ephrata, $181,270; George R. Stacey Co., Box 853, Klamath Falls $184,600; C. H. Strong Engineering & Construction Co., 3871 Royal Ave., Eugene, $219,500. Government estimate, $129,000.
SC 4-12. Previous report 3-19

SEWAGE OUTFALL LINE—Milton-Freewater, Ore.

Bond election date has been set at April 23 by City Council, City Hall, Milton-Freewater, for a $120,000 bond issue to finance construction of 18,000' of 24" sewage outfall line, involving 12,000 c.y. excavation, at Milton-Freewater. An additional $50,000 federal grant will be provided if the bond issue is approved.
SP 4-17. Previous report 2-19

STREET IMPROVEMENT—Milton-Freewater, Ore.

(Estimated cost $54,000)

Bids will be opened about 8 p.m., May 20, by City Council, City Hall, Milton-Freewater, for a 57-block street improvement program, including N. Main, W. Broadway, S.W. 8th, S.W. 12th, S.E. 8th and the Shields Addition north of the armory at Milton-Freewater. Specifications by Donald A. Davis, city engineer, above address. $10 deposit. Quantities: 2,100 ton asphaltic concrete paving; 2,800 c.y. of 1½" base rock; 660 c.y. of ¾ minus leveling course; 3,600 c.y. common excavation; 130 c.y. solid rock excavation. SP 4-17. Previous report 3-27

■WATER WELL— Ordnance, Ore.

Planholders announced for drilling and developing a water well to a depth of about 900' at Umatilla Ordnance Depot in Ordnance; ENG-45-164-57-37. Bids will be opened about April 25, with a definite date to be established by addendum, by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla.

Planholders: Hatch Drilling Co., Box 473, Half Moon Bay, Calif.; Raber-Kief-Nicholson, Inc., 420 Queen Anne Ave., Seattle; Western Well Drilling Co., Ltd., 522 W. Santa Clara St., San Jose, Calif.; H. O. Meyer Drilling Co., 6424 Lake Washington Blvd. N.E., Kirkland, Wash.; Troy Griffin, 881 Hermiston Ave., Hermiston; R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland; A. A. Durand & Son, Box 437, Walla Walla; Ault Irrigation Equipment Co., 1795 Harbor Ave. S.W., Seattle; D. K. Smith, 1013 N. Clinton, Walla Walla; Storey Drilling, Route 1, Prosser; Western Drilling & Equipment, 1545 Bay St., Tacoma.
SP 4-13. Previous report 4-5

●INSTALLING DAM EQUIPMENT—Pelton Damsite, Ore.

Bids will be opened 2 p.m., May 14, by Portland General Electric Co., Fred G. Hodge, purchasing agent, in Conference Room, 6th Floor, Electric Bldg., 621 S.W. Alder St., Portland, for installing, connecting, testing and placing in operating condition the electrical equipment and materials inherent to a hydroelectric generating station, including regulating dam, fish handling facilities, transformer yard and complementary auxiliaries, all of the Pelton Hydroelectric Development, located on the Deschutes River about ten miles west of Madras, Ore. Plans with purchasing agent at 410 Maegly-Tichner Bldg., 610 S.W. Broadway, Portland. $50 deposit.

Work will include installing power generating equipment, instruments and controls, lighting and grounding systems; electrical portion of building yard and equipment services; protection and alarm systems; communication systems and other electrical facilities. Equipment to be installed includes: three 40,000 kw. main generators, accessories and connections, transformers, emergency gas engine generators, circuit breakers, switch gear, load centers, distribution panel, cubicles, lighting cabinets, switchboard, gauge boards, motor generator set, starters, controllers, capacitors, lightning arrestors, batteries, switches, fuses, transformer yard structures, buses, conductors, insulators, conduits, conductor enclosures, supports, pull boxes, lighting receptacles and other electrical items.
WB 4-17

■TRANSMISSION LINE— Portland, Ore.

Planholders announced for construction of the Chenoweth-Harvey 115 mi. 115-kv lines No. 1 and No. 2, Wasco County, Ore.; Inv. No. 8349. Bids will be opened 2 p.m., April 22, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland.

Planholders: Parker-Schram Co., 20[illegible] Builders Exchange Bldg., Portland; O. Brandon, 6401 Lincoln, Vancouver; John M. King Co., 1601 Taylor Way, Tacoma; Tower Sales & Erecting Co., 6100 N.E. Columbia Blvd., Portland; Power City Electric Co., N. 92[illegible] Howard St., Spokane; W. L. Ridge, E. 212[illegible] Sharp Ave., Spokane; Tyee Construction Co., 1901 23rd Ave. S., Seattle; R. C. Hughes, 2105 N. Airport Way, Spokane; Casey Electric, Inc., Bell St. Terminal, Seattle; Duke's Electric, Inc., Bldg. 35, Pasco Airport, Wash.; John L. Nichols Construction Co., P. O. Box 336, Grandview, Wash.
WB 4-12. Previous report 4-[illegible]

▲STREET IMPROVEMENTS—Portland, Ore.

Bids received by city auditor, Will Gibson, City Hall, Portland, for 15 street improvement projects. LOW BIDS — N.E. ACADEMY, ETC.: Zuber Bros., 3600 S.E. 28th Ave., $12,682; K. F. Jacobsen & Co., Inc., 1208 N. River, $14,054; Parker-Schram Co., Builders Exchange Bldg., $14,131. N.E. DAVIS ST.: Zuber Bros., $6,151; Logan, Taylor & Co., 7800 N.E. Killingsworth St., $6,202; Harold G. LaVelle, 10430 S.E. Bush St., $6,24[illegible] N.E. EUGENE ST.: Logan, Taylor & Co., $3,547; Parker-Schram Co., $3,613; Harold G. LaVelle, $3,624. N. LEONARD ST.: Logan, Taylor & Co., $1,605; Perkins Bros., 1029 N.E. Halsey St., $1,647; Harold G. LaVelle, $1,660. N. NEW YORK AVE.: Harold G. LaVelle, $2,390; Logan, Taylor & Co., $2,447; Perkins Bros., $2,506. S.E. REEDWAY: Harold G. LaVelle, $2,579; Parker & Fuhrman, $2,677; Portland Road & Driveway Co., 728[illegible] S.E. Kirk Road, $2,781; N.E. SACRAMENTO ST.: Zuber Bros., $1,491; Perkins Bros., $1,547; K. F. Jacobsen & Co., $1,580. S.E. 45TH AVE.: Harold G. LaVelle, $3,37[illegible] Parker & Fuhrman, $3,435; Logan, Taylor & Co., $3,451. S.E. 59TH AVE.: Zuber Bros., $8,575; Harold G. LaVelle, $8,785; Portland Road & Driveway Co., $8,805. N.E. COUCH ST.: Logan, Taylor & Co., $1,106; Portland Road & Driveway Co., $1,228; Perkins Bros., $1,275. S.E. STEELE ST.: Harold G. LaVelle, $2,334; Portland Road & Driveway Co., $2,404; Logan, Taylor & Co., $2,427. S.E. 42ND AVE.: Logan, Taylor & Co., $97[illegible] Parker & Fuhrman, $1,007; Portland Road & Driveway Co., $1,015. ALLEY IN BLOCK 4, LESTER PARK, ETC.: Perkins Bros., $2,39[illegible] Richard M. Palmer, 6031 S.E. Brooklyn St., $2,432; Zuber Bros., $2,688. N. DELAWARE AVE.: Perkins Bros., $1,394; Parker-Schram Co., $1,451; Logan, Taylor & Co., $1,45[illegible] N. HARVARD ST.: Harold G. LaVelle, $1,766; Logan, Taylor & Co., $3,973; Portland Road & Driveway Co., $3,978. Of Portland. Bids opened April 10.
WB 4-12. Previous report 4-[illegible]

★CAPACITOR RACK EQUIPMENT—Portland, Ore.

Correction: Amount of award for Item 1 to Line Material Co., Milwaukee, Wisc., was $161,600. Award made by Bonneville Power Administration, 1001 N.E. Lloyd Blvd. for static shunt capacitor rack equipment; Inv. 8292. Previous report gave figure of $290,000 which was total of Items 1 and 2, both awarded to Line Material Co.
WB 4-13. Previous report 4-[illegible]

★STATE HIGHWAY PROJECT—Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened March 28 in Portland.

LEVELING, OILING—NEAR LAGRANDE —Leveling course 2.30 mi. and oiling 3.9 mi. Cove Ave. and Fruitvale Road sections of Union County roads; FAP Nos. S-328(2), S-355(1). AWARD: Russell J. Olson Construction Co., Inc., Box 272, Pendleton, $32,650. SP 4-13. Previous report 3-30

★**STATE HIGHWAY PROJECT—** **Portland, Ore.**

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened March 28 in Portland.

GLOVER OVERCROSSING—Reinforced concrete 252' overcrossing of tracks of Union Pacific Railroad and the existing Old Oregon Trail Highway at Glover, Union County; FAP No. 1-62(8). AWARD: Orlando C. Bennard, 222 N.E. Holland, Portland, $120,800. SP 4-13. Previous report 3-30

★**STREET IMPROVEMENTS—Portland, Ore.**

Awards to Logan, Taylor & Co., 7800 N.E. Killingsworth St., Portland, $10,225 (N.E. Pacific St.) and $17,421 (N.E. Wygant St.) by Board of Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for street improvements. WB 4-13. Previous report 3-21

★**STREET IMPROVEMENTS—Portland, Ore.**

Awards by Board of Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for street improvements. AWARDS—N.E. HALSEY ST.: Logan, Taylor & Co., 7800 N.E. Killingsworth St., $126,835. S.E. 87TH AVE.: Ray Hutton, 8407 S.E. 82nd Ave., $18,808. S.E. SALMON ST.: Multnomah Road & Concrete Co., 1130 S.E. 122nd Ave., $7,240. All of Portland. WB 4-13. Previous report 4-5

★**CHECK VALVES—** **Portland, Ore.**

Award to Consolidated Supply Co., 2300 N.W. 26th Ave., Portland, $6,335, by city purchasing agent, 208 City Hall, Portland, for furnishing check valves. WB 4-13. Previous report 3-29

■**WASH RACK DRAIN, SPOIL AREA GRADING—** **Portland, Ore.**

Planholders announced for wash rack drain and spoil area grading for the Air National Guard at Portland International Airport, ENG-45-108-57-125, on which bids will be opened 2 p.m., April 30, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle.

Planholders: E. J. Rice Construction Co., 1864 S. 120th, Seattle; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland; Harold Freeland, Box 1258, Othello; Palmberg Construction Co., Box 991, Astoria; H. M. Peterson Co., 13548 N.E. Glisan St., Portland; Standard Construction Co., Inc., 5415 N.E. Columbia Blvd., Portland; C. Vern White Construction Co., Box 153, Lowell; Johnston & Son, 1004 Milwaukee, Bend; South & West Construction & Excavation Co., 8000 S.W. 31st Ave., Portland; William C. Young, Box 661, White Salmon, Wash. SP 4-13. Previous report 4-10

★**TRANSFORMER COOLING FANS—** **Portland, Ore.**

Award to Allied Engineering Associates, 2604 N.E. 28th Ave., Portland, $4,180, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 38 transformer cooling fans, fob various destinations; Inv. No. 8310. WB 4-16. Previous report 3-29

★**OSCILLOGRAPHIC EQUIPMENT—** **Portland, Ore.**

Award to Hathaway Instrument Division of Hamilton Watch Co., Denver, $10,373, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for oscillographic equipment; Inv. No. 8314. WB 4-16. Previous report 4-9

★**STATE HIGHWAY PROJECT—** **Portland, Ore.**

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened February 28 in Portland.

PACIFIC HIGHWAY GRADING—Grading 6.10 mi. Jumpoff Joe Creek-Louse Creek section of the Pacific Highway, about 4 mi. north of Grants Pass, Josephine County; FIP No. 1-138(9). AWARD: Peter Kiewit Sons' Co., Box 531, Vancouver, $688,986. SP 4-17. Previous report 3-2

●**STREET IMPROVEMENTS—** **Portland, Ore.**

Bids will be opened 10:30 a.m., April 30, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for two street improvement projects. Plans with roadmaster, 2115 S.E. Morrison St. $2 charge each project. Certified check or bid bond 10%.

N.E. MULTNOMAH ST.—From N.E. 148th Ave. to N.E. 152nd Ave. Grading, constructing rock base and surfacing with asphaltic concrete. S.E. MILL ST., ETC.—S.E. Mill St. from 181st to 178th Ave.; S.E. Mill Court from S.E. 181st Ave. to S.E. 178th Ave., and S.T. 181st Ave. from Mill Court to Mill St. Concrete curbs, fine grade within the right-of-way and surfacing with asphaltic concrete. WB 4-17

●**STEEL GANGPLANK—** **Portland, Ore.**

Bids will be opened 3 p.m., April 26, by Port of Portland, Stanley A. Jones, purchasing agent, Swan Island, (P.O. Box 4099), Portland, for fabrication of one 40' steel gangplank. WB 4-17

★**GRADING—** **Toledo, Ore.**

Award to G. D. Dennis & Son, 7355 S.E. Johnson Creek Blvd., Portland, $19,626, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for grading for the Toledo substation addition, east of Toledo, Lincoln County, Ore.; Inv. No. 8316. WB 4-12. Previous report 4-5

★**WATER AND WASTE FACILITIES—** **Toledo, Ore.**

Award to Hanning & Gonzales, 2540 N.E. Union Ave., Portland, no amount noted, by Georgia - Pacific Paper Co., Robert E. Floweree, Jr., vice president, Equitable Bldg., Portland, for installation of water supply pipe lines and a waste transmission line in connection with new paper mill under construction at Toledo. Plans by Cornell, Howland, Hayes & Merryfield, con-

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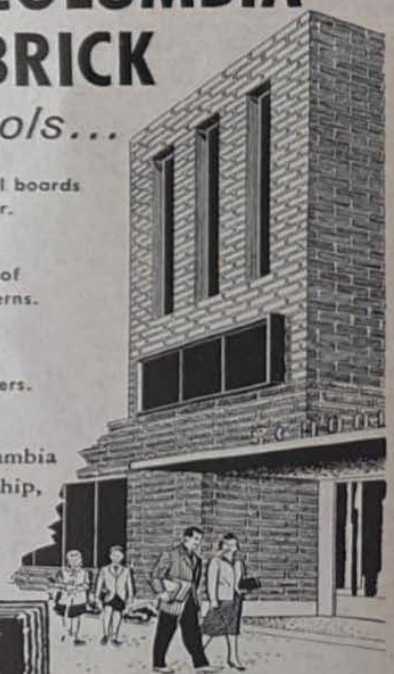
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sulting engineers, 1600 Western Ave., Corvallis. Bids opened April 1.
SP 4-16. Previous report 3-27

WASHINGTON

● REFRIGERATION COMPRESSOR— Ampere, Wash.

Bids will be opened 1 p.m., May 1, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob J. D. Ross Substation at Ampere, one refrigeration compressor; Inv. No. 8360. Specifications with above office.
SP 4-17

▲ WATER FILTERING PLANT EQUIPMENT— Anacortes, Wash.

Approximately 30 bids were received April 19 by City Council, City Hall, Anacortes, for furnishing equipment for a proposed water filtering plant. The bids, which were on low and high head pumps, pressure aeriation tanks, pressure filters, ranged from $222,000 to $355,000. Award will be made April 16. Plans by Carey & Kramer, consulting engineers, Alaska Trade Bldg., Seattle.
PD 4-13. Previous report 3-12

● WATER TANK— Bellevue, Wash.

Bids to be opened 8 p.m., April 25 by Water District No. 97, Thomas A. Kilburn, secretary, 15450 Lake Hills Blvd., Bellevue for furnishing and installing 2,000,000 gal. water storage tank with all appurtenances on foundations constructed by others. Plans with Howard T. Harstad & Associates, consulting engineers, Seattle. $10 deposit. Certified check 5%.
DM 4-12

TELEPHONE, TRANSMISSION LINES— Bellingham, Wash.

Fifty-year franchise approved by Whatcom County Commissioners, Courthouse, Bellingham, permitting Farmers' Mutual Telephone Co. of Lynden to lay, maintain an doperate telephone and transmission lines over, across and under county roadways.
ET 4-12

FIRE DISTRICT— Bellingham, Wash.

Hearing will be held April 26 by Whatcom County Commissioners, Courthouse, Bellingham, on a petition for formation of Marietta Fire District No. 8 in Bellingham.
ET 4-13

AIRPORT IMPROVEMENTS— Bellingham, Wash.
(Estimated cost $144,000)

Federal funds in the amount of $74,912 will be provided for resurfacing the main north-south runway at the Bellingham Airport, according to Bellingham Airport Commission, Cecil Clifton, manager, Airport, Bellingham. This project was originally planned for the 1956 portion of the three-year airport improvement program but was temporarily cancelled in August 1956.
ET 4-17. Previous report 8-22

ROAD IMPROVEMENT—Bellingham, Wash.

Negotiations will be underway soon by Whatcom County Commissioners, Courthouse, Bellingham, for improvement of a one mile strip of the Jones Road, including drainage ditches along the sides of the road and extending the blacktop coating, in Bellingham.
ET 4-17

TRESTLE REPLACEMENT— Bellingham, Wash.

Resolution approved by Whatcom County Commissioners, Courthouse, Bellingham, authorizing expenditure of $8,400 from road fund to finance replacement of the present timber trestle No. 270 on Bender Road with a three-span precast concrete bridge.
ET 4-17

● BREAKWATER, BOAT HARBOR EXTENSION— Blaine Harbor, Wash.

Bids will be opened 2 p.m., May 8, by Corps of Engineers, Seattle district office, 4735 E. Marginal Way, Seattle, for 480,000 c.y. dredging for a small boat harbor at the west end of E St., reinforcement of timber and rock breakwater, and construction of 975' new breakwater easterly of the existing rock breakwater at Blaine Harbor; CIVENG-45-108-57-66. Specifications with above office. Bid bond 20%.

Project includes salvaging and reusing about 1,100 c.y. rock from existing breakwater. Breakwater work will involve placement of 15,000 ton intermediate rock (sizes 15 lb. to 200 lb.); placement of 14,000 ton cap rock (75% of which shall be between 200 lb. and 500 lb. and not more than 25% shall be 500 lb. to 1,000 lb.). A bulkhead for retention of dredged material, north of the new boat basin, will be constructed by others.
SP 4-12

▲ WATER MAIN— Bremerton, Wash.

Bids received by North Perry Avenue Water District, Harley A. Drake, secretary, 2921 Perry Ave., Bremerton, for construction of 1,310' of 6", class 150 asbestos-cement pipe for water main, miscellaneous gate valves and appurtenances. Bids were opened April 9. Plans by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. LOW BIDS: Kimbel Logging & Construction Co., 707 S. 1st, Shelton, $4,980; Jenkins Excavating Co., 1513 8th, Bremerton, $4,993; Power Construction Co., 1523 21st S., Seattle, $5,304.
PD 4-12. Previous report 4-4

WATER SYSTEM— Cle Elum, Wash.

Plans under consideration by City Council, City Hall, Cle Elum, for $90,000 expenditure on a water system (fed by well) at south Cle Elum. Alternate calls for a spring fed system estimated at $112,000. Plans and specifications underway by Allen Hitchings of Gardner & Hitchings, engineers, Arctic Bldg., Seattle.
MH 4-12

SEWER, TREATMENT PLANT— Cosmopolis, Wash.
(Estimated cost $260,000)

Preliminary report from the consulting engineering firm of Howard T. Hardstad & Associates, 1000 Lenora, Seattle, is under study by the town council, Cosmopolis, for a three-phase program of improvement of existing sewer system in Cosmopolis. PHASE 1—(Estimated cost $82,500): Storm sewer separation. PHASE 2—(Estimated cost $70,000): Reduction of sewer infiltration in existing system, involving engineering study on infiltration flow on all lines, determining amount of sewage line replacement. PHASE 3—(Estimated cost of $99,000): Sewer treatment plant.
PD 4-12

PAVING, DRAINS, CURBS, GUTTERS— Ephrata, Wash.
(Estimated cost $215,000)

Public hearing will be held 8 p.m., April 24, in the City Hall, Ephrata, concerning construction and installation of bituminous pavement, concrete curbs and gutters, storm drains, sanitary sewer lines and domestic water lines in certain portions of the City of Ephrata. Plans and specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.
IG 4-12

● DEEPENING WASTEWAY— Ephrata, Wash.

Bids will be opened 10 a.m., May 16, by Bureau of Reclamation, Box 368, Ephrata, for deepening DW240 wasteway, Block 16, about 9 mi. south of Quincy, Grant County, Wash.; Spec. No. 117C-432. Specifications with above office. Bid bond 10%.

Quantities: $185,600 c.y. excavation for wasteway; 7,500 cy. excavation for structures; 11,900 c.y. backfill; 75 c.y. riprap; 1,118' reinforced concrete culvert pipe; 383' corrugated metal pipe.
SP 4-16

● DRAINS— Ephrata, Wash.

Bids will be opened 10 a.m., May 14, by Bureau of Reclamation, Box 368, Ephrata, for DW36, DW36A and DW35.8G drains West Canal drains, Block 72, about two mi. south of Quincy, Grant County, Wash.; Spec. No. 117C-433. Specifications with above office. Bid bond 10%.

Quantities: 26,500 c.y. excavation for open drains; 5,700 c.y. excavation and backfill or drain pipe trenches; 400 c.y. excavation for structures; 450 c.y. backfill; 4,160' drain pipe; 186' corrugated metal pipe.
SP 4-17

● CURBS, GUTTERS, PAVEMENT— Fort Lewis, Wash.

Bids will be opened 1 p.m., April 29, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for installation of curbs and gutters and pavement widening at Madigan Army Hospital, Fort Lewis; AVI-45-016-57-171. Specifications with above ofice. Bid bond 20%.
SP 4-16

★ STREET WIDENING, PAVING— Fort Lewis, Wash.

Award to J. D. Shotwell Co., 3113 S. Pine St., Tacoma, $21,420, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for asphaltic paving of parking areas as dust control measure at Madigan Army Hospital, Fort Lewis; AVI-45-016-57-150. Award for street widening under invitation AVI-45-016-57-148 was announced PCD 3-28.
SP 4-16. Previous report 3-28

▲ RAILWAY RELOCATION, ACCESS ROAD—Ice Harbor Lock and Dam, Wash.

Bids received by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla, for relocation of about 5.5 mi. of S.P. and S. Railway and construction of about ¾ mi. access road at Ice Harbor Lock and Dam, Walla Walla and Franklin counties, Wash.; ENG-45-164-57-56. Bids opened April 11.

LOW BIDS: R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland, $995,457; George W. Lewis and Thompson Construction Co., 3319 10th W., Kennewick, $1,014,681 (joint venture); Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $1,120,296. Government estimate, $1,157,722.
SP 4-12. Previous report 3-28

DRAINAGE IMPROVEMENTS— Longview, Wash.
(Estimated cost $50,884)

Bids will be called soon by City Council, City Hall, Longview, for drainage improvements in the Highlands District, which lies south of Alabama St. between Oregon Way and 29th Ave., in Longview. Plans and specifications by Jack Jones, city engineer, at above address.
SC 4-14

▲ CLEARING R/W, ACCESS ROADS— Mason County, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing right-of-way and constructing access roads, distance of about 28.4 mi. for Schedule 1 of Shelton-Fairmount 115 kv. line No. 2, beginning at Shelton Substation dead-end structure and terminating about 1¼ mi. north of Eldon, Mason County, Wash.; Inv. No. 8332. LOW BIDS: The Helmick Co., P. O. Box 6128, Seattle, $68,388; R. & P. Construction Co., Inc., Shelton, $73,815; Tougon & Olson, Lock Box 247, Enumclaw, $92,957. Bids opened April 15.
WB 4-17. Previous report 4-11

★ FLOOD CONTROL LEVEE— Mesa, Wash.

Award to George A. Lewis, 1902 W. 4th, Kennewick, no amount noted, by City Council, City Hall, Mesa, for construction of a flood control levee at Mesa. Bids opened March 25.
SC 4-13. Previous report 3-22

★ BOAT RAMP— Mukilteo, Wash.

Award to Curtis Construction Co., Route 1, Box 2, Granite Falls, $11,385, by State Parks and Recreation Commission, Robert F. Baker, field engineer, 100 Dexter Ave., Seattle, for construction of a concrete boat launching ramp at Mukilteo State Park, Mukilteo.
PD 4-17. Previous report 4-16

● WATER MAINS, RESERVOIR— Mukilteo, Wash.

Bids to be opened 8 p.m., April 30, by Mukilteo Water District, W. Fred Lee, secretary, 5th and Park avenues, Mukilteo, for Sched. A—furnishing and installing 11,000' of 16" and 3,300' of 12" cast iron water pipe; Sched. B—grading tank site, constructing concrete foundation wall; Sched. C—furnishing, erecting, painting 2,000,000-gal. steel reservoir tank. Plans with R. E. Wolff, the district engineer, 1506 Smith Tower, Seattle. $15 deposit on Sched. A, $5 for Sched. B and C. Certified check 5%. The above

work is part of a long range modernization program planned by the district. The 16" main will be installed along Casino Road and the 12" main along the Goat Trail Road. DM 4-17. Previous report 3-15

★RIGHT-OF-WAY ROAD— Olympia, Wash.

Award to The Helmick Co., P. O. Box 7028, Seattle, $127,137, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing the right-of-way and construction of access roads for schedule 1 of the Olympia-Aberdeen 115-kv transmission line No. 1, beginning 2 mi. southwest of Olympia and terminating at Aberdeen, Thurston and Grays Harbor counties, Wash. WB 4-12. Previous report 4-6

● GRADING, PAVING, SEWERS— Olympia, Wash.

Bids to be opened 2 p.m., April 30, in the office of G. E. Marshall, city clerk, City Hall, Olympia, for grading, base construction, curbs, asphaltic concrete paving and sanitary sewer line. Plans with city engineer, City Hall. $5 deposit. Certified check or bid bond 5%. Quantities: 2,550 c.y. common excavation; 2,100' curb; 686 sq. yd. concrete drives; 103 sq. yd. concrete walk aprons; 10 sq. yd. concrete walk; 11,790 sq. yd. cement treated base; 2,555 ton asphaltic concrete; 330' of 6" to 8" P.C.S.P. with appurtenances. DC 4-13

■ STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced for state highway construction on which bids will be opened 10:00 a.m., April 23, by Washington State Highway Commission, Olympia.

GRADING, CLEARING—KEECHELUS INN-SUNSET LODGE—Clearing, draining, grading 1.014 mi. PSH No. 2, Kittitas County; FAP No. I-002-2(7).

Planholders: C. E. Oneal, Inc., Box 270, Ellensburg; K. L. Goulter & Son, 3419 16th W., Seattle; Russell-Gillett Co., Box G, Cle Elum; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Goodfellow Bros., Inc., Box 1337, Wenatchee; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Thos. Scalzo Co., 3211 Airport Way, Seattle; J. N. Conley, 4332 N. E. Royal Court, Portland; N. Fiorito Co., Inc., 844 W. 48th, Seattle; F. R. Hewett Co., E. 5916 Baldwin, Spokane; American Machine Co., W. 1026 Broadway, Spokane; Guy F. Atkinson Co., 10 W. Orange Ave., S. San Francisco, Calif.; Peter Kiewit Sons' Co., Box 1777, Vancouver; Strong and Macdonald, Inc., 4045 Ruston Way, Tacoma; Murphy Bros., Inc., E. 3728 Broadway, Spokane; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Natt McDougall Co., 824 Pittock Block, Portland; Associated Sand and Gravel Co., 6300 Glenwood Ave., Everett; Donald M. Drake Co., 1600 N.W. Savier, Portland; J. W. Hardison, Box 48, Yakima; Kiely Construction Co., Drawer 246, Butte, Mont.; Max J. Kuney Co., N. 120 Ralph, Spokane.

CLEARING, GRADING—SUNSET LODGE-KEECHELUS DAM — Clearing, draining, grading 2.169 mi. PSH No. 2, Kittitas County; FAP No. I-002-2(8).

Planholders: K. L. Goulter & Son, 3419 16th Ave. W., Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; Strong and Macdonald, Inc., Tacoma; P. J. Anderson & Sons, Seattle; Murphy Bros., Inc., Spokane; C. E. Oneal, Inc., Box 370, Ellensburg; Guy F. Atkinson, S. San Francisco, Calif.; Goodfellow Bros., Inc., Box 1337, Wenatchee; The Harrison Bros. Co. of Tacoma; Natt McDougall Co., 824 Pittock Block, Portland; Thos. Scalzo Co., Seattle; Morrison-Knudsen Co., Inc., Seattle; Associated Sand and Gravel Co., 6300 Glenwood Ave., Everett; J. N. Conley, 4332 N.E. Royal Court, Portland; Donald M. Drake Co., Portland; N. Fiorito Co., Inc., 844 W. 48th, Seattle; J. W. Hardison, Yakima; F. R. Hewett Co., Spokane; Kiely Construction Co., Drawer 246, Butte, Mont.; Everett McKellar, Box 965, Chelan; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Soule Steel Co., Box 3685; Terminal Annex, Seattle; American Machine Co., W. 1026 Broadway, Spokane; Max J. Kuney, N. 210 Ralph, Spokane.

GRADING, BRIDGE—KEECHELUS DAM-MIDWAY—Clearing, draining, grading, constructing reinforced concrete bridge abutments, moving steel bridge on 4.164 mi. PSH No. 2, Kittitas County; FAP No. I-002-2(9).

Planholders: K. L. Goulter & Co. 3419 16th W., Seattle; Peter Kiewit Sons' Co., Vancouver; Strong and Macdonald, Inc., Tacoma; P. J. Anderson & Sons, Seattle; Lewis Construction Co. and George W. Lewis, Box 696, Kennewick; Murphy Bros., Inc., E. 3728 Broadway, Spokane; C. E. Oneal, Inc., Ellensburg; Guy F. Atkinson Co., S. San Francisco, Calif.; Goodfellow Bros., Wenatchee; The Harrison Bros. Co., Tacoma; John P. Hopkins Co., Inc., Box 247, Mercer Island; Morrison-Knudsen Co., Inc., Seattle; Natt McDougall Co., Portland; Thos. Scalso Co., Seattle; Associated Sand and Gravel Co., Everett; J. N. Conley, Portland; Donald M. Drake Co., Portland; N. Fiorito Co., Inc., Seattle; J. W. Hardison, Yakima; F. R. Hewett Co., Spokane; Kiely Construction Co., Butte, Mont.; Everett McKellar, Chelan; Northwest Steel Rolling Mills, Inc., Seattle; Hans M. Skov, 343 Liberty Bldg., Yakima; Soule Steel Co., Seattle; American Machine Co., Spokane; Max J. Kuney Co., Spokane.

GRADING—MIDWAY-KACHESS RIVER—Clearing, draining, grading 4.261 mi. PSH No. 2, Kittitas County; FAP No. I-002-2(10).

Planholders: K. L. Goulter & Son, 4303 E. 35th, Seattle; Peter Kiewit Sons' Co., Vancouver; Strong and Macdonald, Inc., Tacoma; P. J. Anderson & Sons, Seattle; Lewis Construction Co. and George W. Lewis, Box 696, Kennewick; Murphy Bros., Inc., Spokane; C. E. Oneal, Inc., Ellensburg; Guy F. Atkinson Co., S. San Francisco, Calif.; Goodfellow Bros., Inc., Wenatchee; The Harrison Bros. Co., Tacoma; Morrison-Knudsen Co., Inc., Seattle; Natt McDougall Co., Portland; Thos. Scalzo Co., Seattle; Associated Sand and Gravel Co., Everett; J. N. Conley, Portland; Donald M. Drake Co., Portland; N. Fiorito Co., Inc., Seattle; J. W. Hardison, Yakima; Kiely Construction Co., Butte, Mont.; Everett McKellar, Chelan; Northwest Steel Rolling Mills, Inc., Seattle; Soule Steel Co., Seattle; American Machine Co., Spokane; Max J. Kuney Co., Spokane.

PAVING—MOSES LAKE BRIDGE EAST—Draining, grading, surfacing, constructing cement treated base, paving with type I-1 asphaltic concrete, constructing three reinforced concrete slab bridges on 3.388 mi. PSH No. 18, Grant County; FAP No. I-002-4(5) Unit 1.

Planholders: American Bitumuls and Asphalt Co., Portland; Lockyear & White., Inc., Box 687, Longview; Natt McDougall Co., Portland; San Jose Steel Co., Inc., 195 N. 30th, San Jose, Calif.; Snook Bros., Box 667, Goldendale; Acme Construction Co., Box 651, Redmond; Frank G. Baulne, Inc., Box 84, Yardley; C & E Construction Co., Inc., Box 1545, Yakima; Carbon Bros., N. 3430 Cook, Spokane; J. N. Conley, Portland; Donald M. Drake Co., Portladn; Goodfellow Bros., Inc., Wenatchee; K. L. Goulter & Son, 3419 16th W., Seattle; J. W. Hardison, Yakima; F. R. Hewett Co., Spokane; Peter Kiewit Sons' Co., Box 1777, Vancouver; R. L. Moss & Co., Box 37, Zenith; Murphy Bros., Inc., Spokane; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; Everett McKellar, Chelan; McWaters Construction Co., Box 1955, Boise, Idaho; Northwest Steel Rolling Mills, Inc., Seattle; C. E. Oneal, Inc., Ellensburg; Sather & Sons, N. 1410 Howe, Yardley; Snitily Bros. Construction Co., Box 671, Wenatchee; Soule Steel Co., Seattle; Clifton & Applegate, E. 5521 Railroad, Yardley; James Crick & Sons, Spokane; Curtis Construction Co., Box 106, Spokane.

GRADING, CLEARING—ANACORTES VICINITY—Clearing, draining, grading 1.780 mi. PSH No. 1, Skagit County; FAS Nos. S-0964(3) and US-0964(4).

Planholders: American Bitumuls and Asphalt Co., Portland; The Harrison Bros. Co., Tacoma; P. J. Anderson & Sons, Seattle; Natt McDougall Co., Portland; Strong & Macdonald, Inc., Tacoma; Associated Sand and Gravel Co., Everett; Alfred DeCoria, Box 241, Auburn; J. N. Conley, Portland; N. Fiorito Co., Inc., Seattle; K. L. Goulter & Son, Seattle; Peter Kiewit Sons' Co., Vancouver; R. L. Moss & Co., Zenith; Osberg Construction Co., 1132 N. 128th, Seattle; J. P. Surace Construction Co., Seattle.

GRADING, BRIDGE—GETCHELL ROAD-ARLINGTON—Clearing, draining, grading, construction reinforced concrete box girder bridge on 7.666 mi. SSH No. 1-A, Snohomish County; FAS No. S-SG-0202(6).

Planholders: P. J. Anderson & Sons, Seattle; Thos. Scalzo Co., Seattle; J. N. Conley, Portland; N. Fiorito Co., Inc., Seattle; Northwest Steel Rolling Mills, Inc., Seattle; J. P. Surace Construction Co., Seattle; Natt McDougall Co., Portland; Associated Sand and Gravel Co., Everett; Donald M. Drake Co., Portland; R. L. Moss & Co., Zenith; Osberg Construction Co., Seattle.

PAVING—HATTON COULEE-LIND COULEE—Surfacing, constructing cement treated base, paving with type I-1 asphaltic concrete on 4.838 mi. PSH No. 11, Adams County; FAP No. F-033-2(5).

Planholders: American Bitumuls and Asphale Co., Portland; Acme Construction Co., Box 651, Redmond; Frank G. Baulne, Inc., Yardley; C & E Construction Co., Yakima; Carbon Bros., Spokane; J. N. Conley, Portland; F. R. Hewett Co., Spokane; Inland Asphalt Co., 10th and Havana, Spokane; Materne Bros. Co., Spokane; Murphy Bros., Inc., Spokane; McWaters Construction Co., Box 1955, Boise, Idaho; Soule Steel Co., Seattle; D. A. Sullivan, Spokane; Clifton & Applegate, Yardley; Curtis Construction Co., Spokane; F. H. DeAtley & Co., Lewiston, Idaho; Max J. Kuney Co., Spokane.

GRADING, BRIDGE — Draining, grading, constructing reinforced concrete T-beam bridge on 1.199 mi. PSH No. 12, Pacific County; FAP No. F-006-2(4) Unit.

Planholders: Excavators, Inc., 4746 29th Ave. N.W., Seattle; Pakar Construction Co., Chehalis; Russell J. Boe, 9685 Empire Way, Seattle; Latimer & Sons, Inc., Box 111, Raymond; Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam; Wilson & Simpson, Box 1070, Port Angeles.

GRADING, SURFACING — ENSLEY CHANGE IN ALMOTA ROAD — Clearing, draining, grading, surfacing with crushed stone on 4.293 mi. Whitman County Road, FAS No. S-1154(1).

Planholders: Frank G. Baulne, Inc., Yardley; Russell J. Boe, Seattle; Carbon Bros., Spokane; J. N. Conley, Portland; W. J. Halleran, 416 Virginia, Seattle; F. R. Hewett Co., Spokane; Materne Bros. Co., Spokane; C. J. Painter, 947 W. Court, Pasco; D. A. Sullivan, Spokane; Clifton & Applegate,

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Yardley; James Crick & Sons, Spokane; Curtis Construction Co., Spokane; F. H. DeAtley & Co., Lewiston, Idaho; Max J. Kuney, Spokane.

SURFACING—GLAD NORTH ROAD—Surfacing with light bituminous surface treatment on 18.912 mi. Franklin County Road; FAS No. S-1035(3). Involves 32,550 ton crushed stone surfacing, crushed cover stone; 756 ton asphalt cement.

Planholders: American Bitumuls and Asphalt Co., Portland; Frank G. Baulne, Inc., Yardley; C & E Construction Co., Inc., Yakima; Carbon Bros., Spokane; J. C. Compton Co., McMinnville, Ore.; Materne Bros. Co., Spokane; McAtee & Heathe, Inc., Spokane; D. A. Sullivan, Spokane; J. W. Hardison, Yakima; Clifton & Applegate, Yardley; Curtis Construction Co., Spokane; F. H. DeAtley & Co., Lewiston, Idaho; Standard Asphalt Paving Co., Inc., Spokane.

GRADING — SALMON CREEK ROAD — Clearing, draining, grading 3.559 mi. Okanogan County Road, FAS No. S-1145(1) involving 60,870 c.y. unclassified excavation; 76' corrugated metal pipe; 1,041' concrete pipe.

Planholders: P. J. Anderson & Sons, Seattle; Russell J. Boe, 9685 Empire Way, Seatle; C & E Construction Co., Inc., Yakima; W. J. Halleran, Seattle; Russell-Gillett Co., Cle Elum; I. M. Saimons, Route 1, Box 788, Alderwood Manor; James Crick & Sons, Spokane; Murphy Bros., Inc., Spokane.

SURFACING—QUIGLEY ROAD—Clearing, draining, grading, surfacing with crushed stone on 2.397 mi. Island County Road; FAS No. S-0356(3).

Planholders: Russel J. Boe, Seattle; J. M. Bruch Co., Port Angeles; W. J. Halleran, Seattle; R. L. Moss & Co., Box 37, Zenith; Nelson Construction Co., 1433 30th N.E., Seattle; I. M. Saimons, Alderwood Manor; C. W. Thomas & Sons, Box 402, Winlock.

SEAL TREATMENT—COLFAX-STEPTOE—Constructing non-skid seal treatment on 141.48 mi. State Highways Nos. 3, 6, 18, 3-J, 6-A, 6-B, 11-F, Lincoln, Pend Oreille, Spokane, Stevens, Whitman counties; a State Project.

Planholders: American Bitumuls and Asphalt Co., Portland; Acme Construction Co., Redmond; Carbon Bros., Spokane; J. C. Compton, Box 86, McMinnville, Ore.; Doolittle Construction Co., 510 Adams, Seattle; N. G. Johanson, E. 1828 Trent, Spokane; McAtee & Heathe, Inc., Spokane; D. A. Sullivan, Spokane; Standard Asphalt Paving Co., Inc., Spokane.

STOCKPILING—MONROE, SNOHOMISH VICINITIES—Stockpiling sand, maintenance rock, mineral aggregates on PSH No. 15, Snohomish County, a State Project, involving about 57,500 ton crushed materials.

Planholders: Sjoboen Bros., 3205 Hoadley Road, Olympia; Acme Construction Co., Redmond; J. Arlie Bryant, Spokane; N. Fiorito Co., Inc., Seattle.

STOCKPILING—COULEE CITY, LAKESIDE VICINITIES — Stockpiling crushed stone surfacing, crushed cover stone, maintenance rock, mineral aggregates on PSH Nos. 2, 10, 2-F, Grant and Chelan counties, a State Project, involving about 8,000 c.y. stripping borrow, surfacing pits and 44,050 ton crushed material.

Planholders: Frank B. Baulne, Inc., Yardley; Carbon Bros., Spokane; F. R. Hewett Co., Spokane; Materne Bros. Co., Spokane; C. J. Painter, 947 W. Court, Pasco; Clifton & Applegate, Yardley; Curtis Construction Co., Spokane; F. H. DeAtley & Co., Lewiston, Idaho; Maurice Gredvig, Box 301, Yakima.

ILLUMINATION SYSTEMS — FISHER ROAD INTERCHANGE—Installing nine illumination systems on PSH Nos. 8 and 1 in Clark, Cowlitz and Lewis counties, a State Project involving nine lump sum bids.

Planholders: G. S. Electric Co., 4727 Findlay, Seattle; Line Material Industries, 1333 N.W. 12th, Portland; Northwest Engineering Electric Co., 616 6th Ave. S., Seattle; Rochat Electric, 4636 N. William, Portland, Ore.; The Tide Co., 1512 Center, Tacoma.

BUILDING REHABILITATION—Rehabilitation of state highway building at State and Franklin in Olympia, Thurston County, a State Project.

Planholder: Cascade-Olympic Construction Co., Roue 2, Box 1313, Shelton.

MAPLE STREET BRIDE ILLUMINATION SYSTEM—Furnish, install entire system of street lighting, bridge lighting, underpass lighting, service facilities for future supply to toll collection equipment and building, furnishing and installing sign standards and posts and erecting signs furnished by others.

Planholders: Electric Smith, Inc., E. 123 Sprague, Spokane; Power City Electric Co., N. 920 Howard, Spokane; D. G. Quinton Co., N. 1413 Division, Spokane; Kehne Electric Co., Inc., N. 416 Helena, Spokane; Line Material Co., Spokane; Northwest Engineering Electric Co., 616 6th Ave. S., Seattle; Rochat Electric, 4736 N. Williams, Portland.

DM 4-16. Previous report 4-4

POWER LINE, SUBSTATION—Pasco, Wash.

Plans have been delayed due to technical difficulties on installation of 15 mi. of primary power lines in irrigation blocks 41 and 18, according to Harry H. Hudlow, manager, Franklin County PUD, 208 S. 4th, Pasco. Construction may be started in 1958. Work will be completed this year by company crews on the Riverview switching station.

DM 4-16

INTERCEPTOR SEWER, LIFT STATION, OUTFALL— Port Angeles, Wash.

(Estimated cost $711,000)

Bid call has been advanced to the early part of May by G. S. Vergeer, city manager, City Hall, Port Angeles, for an interceptor sewer, sewage lift station and outfall for the city of Port Angeles. Plans by Hammond, Collier & Isaac, consulting engineers, 4010 Stone Way, Seattle. $15 deposit on plans when bids are called.

PD 4-16. Previous report 1-25

★STORAGE TANK— Prescott, Wash.

Award to Petroleum Heating Co., only bidder, 2743 4th S., Seattle, $5,895, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for furnishing and installing 10,000 gal. electrically heated, automatically controlled asphalt storage tank, Prescott. Bid opened April 15.

DE 4-17. Previous report 4-9

● GRADING, SURFACING—Prosser, Wash.

Bids to be opened 11 a.m., April 22, by Benton County Commissioners, Courthouse, Prosser for grading, draining, surfacing 1.11 mi. Swayze Road and 1.15 mi. Game Farm Road. Plans with county engineer, Box 648, Prosser. $2 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 19,782 c.y. unclassified excavation including haul; 1,900 c.y. unclassified borrow including haul; 28 c.y. structure excavation; 118.4 sta. finishing roadway; 1,343 M gal. water; 4,540 c.y. select roadway surfacing; 432' of 18" and 66' of 24" standard reinforced concrete culvert pipe. DC 4-12

●■ ANTENNA SUPPORT TOWERS— Reardon, Ruff, Wash.

Bids will be opened 2 and 2:30 p.m., respectively, April 23, by U. S. Air Force, Procurement Office, Geiger Field, Wash., for construction of two antenna support towers, one at the radio relay station in the vicinity of Ruff (IFB 45-614-57-90) and one in the same area at Reardon (IFB 45-614-57-91). Specifications with above office.

Planholders: Allied Industries, E. 1028 1st Ave.; Kehne Electric Co., N. 416 Helena; John L. Nichols Construction Co., Box 336, Grandview; R. C. Hughes Co., Box 216, Parkwater Station; Power City Electric Co., N. 920 Howard; Quinton, Inc., Box 41. Of Spokane unless noted. LL 4-12

★CRUSHED ROCK— Seattle, Wash.

Award to Puget Sound Bridge & Dredging Co., 2929 16th Ave. S.W., Seattle, (delivered price) $2.05, Item 1, $2.53, Item 2, by King County Commissioners, W. R. Carroll, purchasing agent, 606 County-City Bldg., Seattle, for furnishing 720 c.y. 1½" minus crushed rock, 240 c.y. ¾" minus crushed rock. PD 4-12. Previous report 3-22

▲SEWER— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for construction of two sewer projects—Thistle St., LID No. 6151, and 50th Ave. S.W., LID No. 6160, Seattle. Bids opened April 10. LOW BIDS—LID No. 6151: Malaspina, 1901 23rd Ave., $83,484; Thor & Marble, 4225 23rd Ave. W., $87,535; Libri, 5960 Empire Way, $90,395. LID No. 6160; Frank Colucci, 7778 Seward Park Ave., $8,605; Murphy Bros., Inc., 4225 51st Ave. S., $8,990; Superior Construction Co., 4610, 27th S.W. $9,141. PD 4-12. Previous report 4-4

★POWER SHOVEL PARTS, LUMBER— Seattle, Wash.

Award to Howard Cooper Corporation (only bidder), 5055 4th Ave. S., Seattle, $1,823, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for 2—furnishing parts for power shovel and 2—500 pieces of construction grade fir lumber and 500 pieces of select structure fir rough lumber. PD 4-12. Previous report 4-4

★UTILITIES REPLACEMENT, EXTENSION— Seattle, Wash.

Award to Wenzler & Ward Plumbing & Heating Co., 2109 Western, Seattle, $7,185, by 13th Naval District, Public Works Office, room 100, Bldg. 232, U. S. Naval Station, Seattle, for installation of 300' cement-asbestos water pipe at the U. S. Naval Station, eSattle; Spec. No. 6664/57.

PD 4-13. Previous report 4-11

● ELEVATORS— Seattle, Wash.

Bids will be opened 2 p.m., May 1, by E. G. Henry, Board of Public Works, 512 County-City Bldg., Seattle, for installation of four passenger elevators, and removal of existing freight elevator in City Light Bldg., 1015 3rd Ave., Seattle; Spec. No. 1507. Specifications with Board of Public Works.

PS 4-11

CITY PARKS— Seattle, Wash.

A $12,000,000 bond issue may be placed on the March, 1958, ballot by the Park Board to finance a six-year capital improvement program in the city parks. DC 4-11

● ROCK CRUSHER— Seattle, Wash.

Bids to be opened 10 a.m., April 26, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing one roll type rock crusher. Plans with above office. DC 4-11

● BULKHEAD, PIER— Seattle, Wash.

(Estimated cost $900,000)

Bids will be opened 10 a.m., April 30, in the office of the Port of Seattle, G. T. Treadwell, chief engineer, Bell Street Terminal, Seattle, for construction of a bulkhead and pier for a 1,500 boat moorage at Shilshole Bay, Seattle. Specifications with engineer, Room 406, Bell Street Terminal, Seattle. $20 deposit. Bid bond 5%.

The contract involves: 4,272' piling, rock, concrete bulkhead; 1,650' rock bulkhead, 900' breakwater pier including boat launching ramp; 16.7 acre reclaimed land for 1,200 car parking lot to be operated by Port of Seattle and 7.9 acre owned by City of Seattle Park Department. Quantities involved: 102,400' piling; 81,400 ton rock; 7,350 c.y. concrete; 4,820' existing bulkhead to be removed or altered; 1,200 sq. yd. asphaltic concrete paving. There will also be $10,000 of drainage work and miscellaneous materials in the contract. This is the first division of a long-range five-division project to be completed by the middle of 1958. Bids will be called at a later date on the other divisions which include floats for boat moorage, utilities, paving, buildings including a Coast Guard Station.

The bid call on this project was contingent upon award for construction of a breakwater creating a 73-acre mooring basin. This contract was let by the Corps of Engineers to General Construction Co., 3840 Iowa, Seattle, at $1,976,180. PD 4-11

● BACKSTOP, FENCES— Seattle, Wash.

Bids will be opened 10 a.m., April 24, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing two softball backstops, W. J. Dahl Playfield, Interbay Playground; two 6' chain link fences, Judkins Street Playground, Interbay Playground. Specifications with above office. PD 4-11

▲FENCING, GROUND IMPROVEMENTS— Seattle, Wash.

Bids received by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for fencing and ground improvement, involving asphaltic paving, at Pacific School. Bids opened April 16. FENCING—BIDDERS: Cyclone Fence, 1150 Fairview N., Seattle, $9,923; Anchor Fence Division—Anchor Post Products, Inc., 4502 14th N.W., Seattle, $10,032; San Jose Steel Co., Inc., 7034 15th N.W., Seattle, $10,127. PAVING—LOW BID: Riley Pleas, Inc., 522 19th N., Seattle, $38,639. There were eight bidders for this portion of the project.
SP 4-17. Previous report 4-3

★SEWER, LIFT AND SCREENING STATION— Sedro Woolley, Wash.

Award to Consolidated Construction Co., 924 Capitol Way, Olympia, $72,266 (sched. 1—alt. B), $9,615 (sched. 2), by G. Lee Sandritter, acting director, State Department of Institutions, Olympia, for construction of 10,000' trunk sewer, sewage lift station and sewage screening station at Northern State Hospital in Sedro Woolley. Plans and specifications by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle.
PD 4-12. Previous report 3-23

▲SEWAGE PLANT LABORATORY, FENCE— Sedro Woolley, Wash.

Tabulation of bids received April 8 by City Council, City Hall, Edmonds, for construction of a laboratory for the primary treatment plant and for 712' of woven wire fence, was delayed for several days. Plans by James A. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. LOW BID: Morse Hardware Co., 1025 State, Bellingham, $3,535. PD 4-13. Previous report 3-22

● SECURITY FENCING—Silver Lake, Wash.

Bids will be opened 1 p.m., April 22, in the office of the Contracting Office, Alaska Communication System, 4735 E. Marginal Way, Seattle, for installation of security cyclone wire fencing at the U.S. Army Alaska Communication System, Silver Lake; SC-45-041-57-25. Specifications with above office.
SP 4-13

★GRADING, CURBING— Spokane, Wash.

Awards announced by City Council, City Hall, Spokane, for curbing and grading of Rebecca St. from Frederick Ave. to Grace Ave. and of Cleveland Ave. from the east line of Bell Park Addition to vacated Sycamore St.; for grading and curbing of Lee St. from 39th Ave. to Thurston Ave. and of 39th Ave. from 633' east of Crestline St. to Crestline St. in Spokane. Bids opened April 4. AWARDS—REBECCA: Inland Asphalt Co., 10th and Havana, Spokane, $17,599. LEE: Barton Construction Co., Spokane, $5,200.
LL 4-12. Previous report 3-23

PARKING LOT— Tacoma, Wash.
(Estimated cost $200,000)

Bids will be called soon for opening sometime in May, by Metropolitan Park District, Tom Lantz, superintendent, 210 City Hall, Tacoma, for construction of a new 300-car parking lot, jutting 115' into Puget Sound at the Point Defiance Park in Tacoma. Plans and specifications by Stewart & Lamberger, architects and engineers, 608 S. Oxford St., Tacoma.
SP 4-12. Previous report 3-14

▲UTILITIES REPLACEMENT, EXTENSION— Tacoma, Wash.

Bids received by 13th Naval District, room 100, Bldg. 232, U.S. Naval Station, Seattle, for installation of 520' of fire main and 440' underground cconrete steam conduit. Bids opened April 12.

LOW BIDS: Sager Plumbing & Heating Co., Inc., 3720 Center, Tacoma, $35,988; Sentry Automatic Sprinkler Co., 2716 A St., Tacoma, $40,359; Phoenix - Matthews, 2335 N.E. 8th Ave., $44,926.
PD 4-13. Previous report 3-27

▲SWITCHES— Tacoma, Wash.

Bids received by Board of Contracts & Awards, 404 City Hall, Tacoma, for three 110-kv 600-amp and 15-kv, 1,200-amp gang operated disconnecting switches. Bids opened April 15. LOW BIDS—3-GANG SWITCHES: Love Electric Co., 1914 Market, Tacoma, $7,080; Graybar Electric, 2112 A St., Tacoma, $7,170; Westinghouse Electric Corp., Rust Bldg., Tacoma $7608. 2-GANG SWITCHES: Graybar Electric Co., $1,368; Westinghouse Electric Corp., $1,600; Love Electric Co., $1,600.
SP 4-16. Previous report 4-5

★WATER MAINS Tacoma, Wash.

Award to Paine & Gallucci, Inc., 1521 S. Grant St., Tacoma, by Board of Contracts & Awards, 404 City Hall, Tacoma, for construction of 4", 6" and 16" cast iron water mains in LID No. 5159. Paine & Gallucci's bid on April 8 was $154,995 (item 1, bell and spigot joints) and $159,727 (item 2, mechanical joints).
SP 4-17. Previous report 4-9

★OIL CIRCUIT BREAKER—Tacoma, Wash.

Award to Home Electric Co., 2212 A St., Tacoma, $4,500, by Board of Contracts & Awards, 404 City Hall, Tacoma, for one 14.4 kv., 1,200 amp, 250,000 kva oil circuit breaker.
SP 4-17. Previous report 4-2

★COPPER TUBING— Tacoma, Wash.

Award to Rosen Supply Co., 2919 S. Chandler, Tacoma, $15,899, by Board of Contracts & Awards, 404 City Hall, Tacoma, for anealed seamless copper tubing in sizes ¾" and 1" diameter, designated Type K.
SP 4-17. Previous report 4-2

★SIDEWALKS, CURBS— Tacoma, Wash.

Award to George Madsen, 6420 6th Ave., Tacoma, $33,847, by Board of Contracts and Awards, 404 City Hall, Tacoma, for construction of new walks and replacing defective walks, curbs, etc. in various locations in Tacoma; W.O. 7707.
SP 4-17. Previous report 3-26

● WATER MAINS— Tacoma, Wash.

Bids to be opened 11 a.m., April 22, by Board of Contracts and Awards, City Hall, Room 404, Tacoma, for constructing 6", 8" and 12" cast iron water mains in LID No. 5253. Plans with above office. $5 deposit. Certified check 5%. Completion time 90 calendar days.
DC 4-17

● TRACTOR— Tacoma, Wash.

Bids to be opened 11 a.m., April 29, by Board of Contracts and Awards, City Hall, Room 404, Tacoma, for one tractor with back-hoe and loader. Plans with above office. Certified check 5%.
DC 4-17

WATER LINES— Tolt River, Wash.

Shannon & Wilson, consulting engineers, 2208 Market, Seattle, will be retained by the city engineering department to make earth stabilization studies in connection with pipelines in the Tolt River Watershed.
DC 4-13

● GRADING, SURFACING— Toppenish, Wash.

Bids will be opened 2:30 p.m., P.S.T., May 1, by Bureau of Indian Affairs, Portland Area Office, Roads Branch, P.O. Box 4097, 1001 N.E. Lloyd Blvd., Portland, for grading, draining and crushed gravel base and surfacing courses on 11.059 mi. of highway, Yakima Indian Reservation, near Toppenish, Wash.; Project No. YIR 610. Plans with Roads Branch, 8th Floor, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland. Bid guarantee 5%.

Quantities: 80,830 c.y. unclassified excavation; 63,267 c.y. unclassified excavation for borrow, case 1 59,867 ton crushed gravel base course; 24,587 ton crushed gravel surface course; 1,012' corrugated galvanized sheet metal culvert pipe; 1,700' corrugated galvanized sheet metal pipe arch culvert; 67,244' barbed wire fence.
WB 4-12. Previous report 1-17

▲STREET IMPROVEMENTS— Toppenish, Wash.

Bids received by Aleta A. Bennett, city clerk, City Hall, Toppenish, for street improvements, including construction of bituminous pavement, curb and gutter, and storm drains, at Toppenish. Plans and specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened April 9. LOW BIDS—SCHED 1 (curbs, gutters, storm drains): DeAtley Asphalt Paving & Crushing Co., Ext. N. 16th Ave., Yakima, $27,063; Schademan Bros., Toppenish, $30,855; E. M. Gostovich, Box 264, Sunnyside, $38,087. SCHED. 2 (asphaltice concrete surface): Morrison & Co., Inc., Box 597, Walla Walla, $37,453; Smith Asphalt & Paving Co., 1407 North Ave., Sunnyside, $37,737; Hardisty Construction Co., Vancouver, $41,580. SCHED. 3 (concrete overlay—in addition to Sched. 1 and 2): Morrison & Co., Walla Walla, $18,737; Smith Asphalt & Paving Co., Sunnyside, $19,350; Hardisty Construction Co., Vancouver, $20,075.
IG 4-12. Previous report 4-2

● PIPE FITTINGS— Vancouver, Wash.

Bids will be opened 1:30 p.m., April 22, by city purchasing agent, R. G. Lovette, City Hall, Vancouver, for 1,000' of 14", 3,000' of 10", 3,000' of 8" and 10,000' of 6" cast iron mechanical joint pipe; 3,000' of 12", 3,000' of 8" and 10,000' of 6", 10 gauge dipped and wrapped steel pipe; 117 gate valves; 19 cast iron crosses; 35 tees; 1 hub reducing adaptor; 22 plugs and 25 fire hydrants.
WB 4-12

★FIRE PUMP— Vancouver, Wash.

Award to Atlas Equipment Co., Inc., Seattle, $538, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for one centrifugal or turbine type fire pump; fob. Eavan Spur, Vancouver; Inv. No. 8311.
WB 4-13. Previous report 4-29

★LAMP ASSEMBLIES— Vancouver, Wash.

Award by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 200 indicating lamp assemblies, fob. Eavan Spur, Vancouver; Inv. No. 8324. AWARD: General Electric Supply Co., 300 N.W. 14th Ave., Portland, $900. Bids opened April 2.
WB 4-13. Previous report 3-20

★POWER CABLE— Vancouver, Wash.

Award to The Okonite Co., Passaic, N.J., $1,091, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portalnd, for furnishing and delivering fob Eavan Spur, Vancouver, 450' of lead sheathed power cable; Inv. No. 8307. WB 4-13. Previous report 3-29

▲DOMESTIC WATER SYSTEM— Veradale, Wash.

Bids received by Vera Irrigation District No. 15, J. W. Custer, manager, 601 N. Evergreen, Veradale, for domestic water system modernization, including laying 92,000' water mains, construction of a 1,000,00-gallon reservoir foundation at 24th and Custer streets, and installation of associated electrical controls in the district, at Veradale. Plans and specifications by H. E. Bovay, Jr., consulting engineer, W. 933 3rd Ave., Spokane. Bids opened April 11. LOW BIDS: Shoreline Construction Co., 12519 15th, Seattle, $139,335; P & B Co., Inc., E. 8903 Main, Spokane, $160,889; Harold Kaeser Co., 3629 34th S., Seattle, $162,164.
LL 4-17. Previous report 3-30

LATERAL SEWERS— Walla Walla, Wash.

Preliminary planning underway by the city engineef's office, City Hall, Walla Walla, for formation of LID No. 460 for construction of lateral sewers in Walla Walla, May 1, has been set as deadline for groups of property owners to petition for sewer construction in the LID, according to Forrest Roff, assistant city engineer, at above address. Petitions submitted to the engineer's office are for about 3,700' sewer on Wauna Vista, Crestview Place and Hillbrooke Drive. Additional petitions are expected for 1,500' sewer on Shiredan Road and on 2nd. Side sewers to property lines will be installed with the sewer laterals. Bids will be called about July 1 with installation of the sewer completed by winter.
SC 4-17

● FLOATING CAISSON TRASH RACKS, GUIDES— Wenatchee, Wash.

Bids to be opened 10 a.m., P.S.T., May 10, by Public Utility District No. 1, Chelan

County, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for (1) designing and furnishing a steel floating caisson approximately 60' long by 70' high including operating equipment, (2) furnishing intake trash racks, trash rack guides and trash rake guides for Rocky Reach Hydroelectric Power Project. Plans with Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seattle. DM 4-12

●DRAFT TUBE GATES—Wenatchee, Wash.

Bids to be opened 10 a.m., P.S.T., April 26, by Public Utility District No. 1, Chelan County, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for furnishing 12 steel draft tube gates, one draft tube gate, lifting beam, 11 guides, bearing frame assemblies for Rocky Reach Hydroelectric Power Project. Plans with Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seattle. DM 4-12

★BRIDGE REPLACEMENT— Wenatchee, Wash.

Award announced by Chelan County Commissioners, Courthouse, Wenatchee, for removing, dismantling and stockpiling the existing 120' riveted, steel truss Chumstick Bridge, construction of an earth embankment, and ballasting and surfacing in Chelan County, Wash.; CRP No. 198. Bids opened April 8. AWARD: C. E. O'Neal, Box 270, Ellensburg, $37,534. 2ND LOW: Russell-Gillett Co., Box G, Cle Elum, $42,040. 3RD LOW: Larson Construction Co., Box 552, Wenatchee, $52,995.

SP 4-12. Previous report 4-2

▲GATES, GUIDES, BUS DUCT— Wenatchee, Wash.

Bids received by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for (1) furnishing 12 steel draft tube gates, one lifting beam; (2) furnishing and delivering 15 kv. isolated phase bus duct, all for Rocky Reach hydroelectric power project. Plans by Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seatle. Bids opened April 12. LOW BIDS—GATES, GUIDES: California Steel Products, Richmond, Calif., $1,989; Todd Shipyards Corp., 1801 16th S.W., Seattle, $2,323; Willamette Iron & Steel Co. 2800 N.W. Front, Portland, $2,433. BUS DUCT: Westinghouse Electric Corp. $511 257 (with copper conductors), $491,000 (with aluminum conductors); I-T-E Circuit Breaker Co., Philadelphia, Pa., $540,073, $515,686; Delta-Starr Electric Co., Pittsburg, Pa. $622,624, $594,165.

SP 4-16. Previous report 3-16

★POWER TRANSFORMER— White Bluffs Pumping Plant, Wash.

Award to Home Electric Co., 2212 A St., Tacoma, $11,080 fob Othello, by Bureau of Reclamation, Bldg. 53, Denver Federal eCnter, Denver, Colo., for furnishing and delivering one outdoor power transformer, equipped with tank-mounted lightning arresters for the White Bluffs Pumping Plant No. 1, switchyard, Columbia Basin Project, Wash.; DS-4822.

SP 4-16. Previous report 2-27

★PIPE AND LAWN IRRIGATION EQUIPMENT— Yakima, Wash.

Award to Water Works Supply Co., 4455 S.E. 24th Ave., Portland, $3,603, by Yakima School District No. 7, Arthur E. Church, clerk, 112 N. 4th St., Yakima, for purchase of pipe and lawn irrigation equipment for the school district.

IG 4-12. Previous report 3-27

●BRIDGES— Yakima Indian Reservation, Wash.

Bids will be opened 2:30 p.m., P.S.T., May 1, by Bureau of Indian Affairs, Portland Area Office, Roads Branch, P.O. Box 4097, 1001 N.E. Lloyd Blvd., Portland, for construction of four timber pile, concrete deck bridges, totalling 242' on Yakima Indian Reservation, Routes YIR 28 and 200, near Toppenish, Wash.; Project No. YIR-612. Plans with Roads Branch, 8th Floor, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland. Bid guarantee 5%.

Quantities: 164.9 c.y. class A concrete; 30,860 lbs. reinforcing steel; 2,450' treated timber piling. WB 4-12. Previous report 1-17

CURBS, GUTTERS, SURFACING— Yakima, Wash.

Preliminary surveys underway for construction of concrete curbs and gutters and asphaltic cocnrete surfacing on Logan Ave., Murphy Lane and Petzel Ave. in Yakima, according to Sam Hobbs, city engineer, City Hall, Yakima. IG 4-13

IRRIGATION SYSTEM— Yakima, Wash.

Bids rejected as to high and project has been dropped by City Council, City Hall, for construction of an irrigation system for the Swan Tracts (Swan Ave.) in Yakima. Low bidder on March 4 was E. M. Gostovich, Box 264, Sunnyside, $61,044. The 36th Ave. irrigation project, also opened on March 4, was awarded as reported in PCD 4-3.

IG 4-13. Previous report 4-3

IDAHO

★STEEL TRUSS BRIDGE— Boise, Idaho

Award to Walter G. Meyers & Son, N. 1407 Calispell, Spokane, $31,297, by Bureau of Public Roads, 408 N. 10th St. (Box 1559), Boise, for erecting government-furnished material incidental to the construction of a 251' steel truss span with timber deck and approach spans, Enaville-Murray Highway, Coeur d'Alene National Forest, Shoshone County, Idaho; FHP 9-A5. Meyers' low bid was $38,197. Some items have been eliminated from the contract and will be done by Shoshone County.

WB 4-13. Previous report 4-2

★STATE HIGHWAY PROJECT— Boise, Idaho

Award announced by Department of Highawys, 603 Main St., Boise, for a highway construction project on which bids opened April 9.

BEAR RIVER DRAINAGE, SURFACING—Construction of roadway, drainage structures and roadmix bituminous surface on 2.838 mi. Bear River Bridge-Fairview Road in Franklin County; FAP No. S-1734(1).

AWARD: Fife Construction Co., Brigham City, Utah, $55,208.

SP 4-17. Previous report 4-11

●TRANSFORMERS, SUBSTATION EQUIPMENT, STEEL FRAMEWORK— Fort Hall Indian Reservation, Idaho

Bids will be opened 3 p.m., P.S.T., May 24, by U.S. Bureau of Indian Affairs, Land Operations,Irrigation, P.O. Box 4097, 1001 N.E. Lloyd Blvd., Portland, for supply of four transformers with capacity of 1,250 kva converting electricity from 46,000 to 2,400 volts; substation equipment including disconnect switches, bus bars, insulators, fuses and lightning arresters, and steel framework to support substation equipment, for substation at Portneuf Pumping Station, Michaud Irrigation Project, Fort Hall Indian Reservation, Idaho, about 8 mi. northwest of Pocatello; Inv. 109-57-204. Specifications with Portland office. WB 4-10

●PUMP HOUSE, INTAKE STRUCTURE, DISCHARGE LINE— Fort Hall Indian Reservation, Idaho

Bids will be opened 3 p.m., May 31, by U.S. Bureau of Indian Affairs, Land Operations-Irrigation, room 851, Interior Bldg., 1001 N.E. Lloyd Blvd., (P.O. Box 4097), Portland, for construction of pump house, intake structure and discharge line for the Portneuf Pumping Staiton, Michaud Irrigation Project, Fort Hall Indian Reservation, on west bank of Portneuf River, about 8 mi. northwest of Pocatello, Idaho. Plans with above office. Bid guaranty 5%.

Work includes—SEWER LINE CHANGE—Approximately 425' of 12" concrete pipe and 48" manhole. PUMPHOUSE—To house 3 pumps, motors and control equipment. Pump to be 110 C.F.S. capacity, at 92.4' normal head. Motors to be 1,500 hp. each, synchronous, directly connected to the pumps. FOREBAY AND RIVER WORKS. D... CHARGE WORKS—3,170' of 87" pipe, ... three 54" butterfly gate valves, or th... separate 57" lines. PILE DRIVING—Fo... dation for pumphouse and forebay structu... SUBSTATION—56 kv. to 2.4 kv, 3,500 k... ROAD AND YARD GRADING AND PA... ING—Macadam pavement. FENCING—Ch... link and barbed wire. Pumps, motors a... control equipment for pumphouse and ... major items for substation will be furnish... by the government.

WB 4-16. Preivous report 1...

▲PUMPING PLANT, TANK, DISTRIBUTION SYSTEM— Hayden Lake, Ida...

Bids received by Bureau of Reclamatio... at Hayden Lake Corners, Hayden Lake, ... the Hayden Lake pumping plant, 75-0... gallon elevated steel water storage tank a... distribution system, Rathdrum Prairie Pro... ect, Idaho; Spec. No. DC-4864. Bids open... April 9. SCHED. 1 and 3 (pumping plan... distribution lines)—LOW BID: Intermou... tain Co., 1322 Grove, Boise, $340,526; (tota... $75,809 (pumping plant), $264,717 (pipe lines... 2ND LOW: B-E-H Pipeline Construction... 1512 Center St., Tacoma, $348,766, $81,9... $266,795. SCHED. 2 (water tank)—LOW BI... Chicago Bridge & Iron Co., 3118 4th Av... Seattle, $57,785. ONLY OTHER BID: Pitt... burgh-Des Moines Steel Co., 901 Lane, S... attle, $58,885. Government estimates, $48... 180 (Sched. Nos. 1 and 2), $65,000 (Sched. ...

SC 4-13. Previous report 3-...

★RADIOACTIVE DISPOSAL, WATER LINE— Idaho Falls, Ida...

Award to Arrington Construction Co., B... 1881, Idaho Falls, $398,635, by Westinghou... Electric Corp., Box 376, Idaho Falls, for co... struction of radioactive waste disposal sy... tem and water rheostat and transmiss... line at A1W site of Naval Reactor Facili... National Reactor Testing Station, Idah... Subcontract No. 73-(14-147).

SP 4-13. Previous report ...

★STEEL TANK BUILDING, WATER TAN... STRUCTURAL STEEL—Idaho Falls, Ida...

Award to Chicago Bridge & Iron Co., B... 687, Salt Lake City, $167,400, by Atom... Energy Commission, Box 1211, Idaho Fal... for design and construction of steel ta... building and water tank and construction ... structural steel at ALPR Area at the N... tional Reactor Testing Station in Idaho; I... No. AT(10-1)-888.

SP 4-13. Previous report 3-...

▲TEST AND DISPOSAL WELLS— Idaho Falls, Ida...

Bids received by Atomic Energy Comm... sion, Box 1211, Idaho Falls, for drilli... casing and testing advance planning we... at the National Reactor Testing Station ... Idaho; Inv. No. AT(10-1)-892. Bids open... April 10. LOW BIDS: Paul Vollmer & S... Aberdeen, Idaho, $47,406; Cushman & Joh... son Drilling Contractors, 215 S. Birch, Bla... foot, $48,630; Cope Drilling & Pump C... Airport Road, Idaho Falls, $54,924.

SP 4-13. Previous report 3-...

★SUBSTATION— Lewiston, Ida...

Award to Cecil Schweighardt, Box ... Ephrata, $19,298, by Bonneville Power A... ministration, 1001 N.E. Lloyd Blvd., Por... land, for construction of Clarkston Su... station, 4 mi. west of Lewiston, Nez Per... County, Idaho; Inv. No. 8317.

WB 4-9. Previous report 3-...

TRANSMISSION LINE— Lewiston, Ida...

Bids will be called early in June by Cle... water Power Co., 1835 G St., Lewiston, ... construction of a 34,000-volt transmissi... line from Clarkston to Anatone, accordi... to Robert S. Dole, company engineer. Spec... fications by H. N. Roberts & Associates, B... 3008, Lubbock, Texas.

SP 4-13. Previous report 3-...

SEWAGE TREATMENT PLANT— Lewiston, Ida...

Federal aid funds in the amount of $268,3... have been assured the City of Lewiston t... match the $600,000 bond issue approved ... February to finance construction of ...

secondary treatment plant, pumping station and trunk line across Clearwater River, and interceptor sewers. Plans and specifications by Stevens & Thompson, consulting engineer, 2234 S.W. 5th Ave., Portland.
SC 4-17. Previous report 3-5

WATER SYSTEM IMPROVEMENTS— **Moscow, Idaho**

A $74,840 federal agent has been give the city of Moscow for a sewage disposal plant and expansion of sewer trunk line. A bond issue of $295,000 to help finance the project will be included in the $1,032,000 bonds to be voted upon at the April 23 election. Other items on the bond issue are a water purification plant, water development plant and a new well for Moscow Cemetery.
SC 4-17. Previous report 3-5

★LIFT STATION, SEWAGE DISPOSAL SYSTEM— **Sandpoint, Idaho**

Awards announced by City Council, City Hall, Sandpoint, for construction of the Boyer Ave. lift station and 36" outfall sewer, concrete intake and flood stage sump. Plans by W. L. Malony, consulting engineer, Symons Bldg., Spokane. Bids opened April 4. AWARDS: Dan Deshon, Sandpoint, $20,490. (Sched. A, general), $3,256 (Sched. E, intakes and pump sumps). Ruud Construction Co., Realty Bldg., Spokane, $24,500 (machinery and electrical work).
SP 4-17. Previous report 4-4

▲BITUMINOUS OIL DISTRIBUTOR— **Weiser, Idaho**

Bids received by Jim Walston, purchasing agent, City Hall, Weiser, for a new bituminous oil distributor for use on city streets. Bids opened April 4. LOW BIDS: Starline Equipment Co., Box 2571, Boise, $2,774; The Sawtooth Co., 1115 Grove St., Boise, $3,101; Feenaughty Machinery Co., 600 Front St., Boise, $3,181. SP 4-9. Previous report 3-16

★WATER PUMP— **Weiser, Idaho**

Award to H.J.H. Co., E. Commercial St., Weiser, $899, by City Council, City Hall, Weiser, for purchase of a centrifugal type water pump to be used by the city.
SP 4-17. Previous report 4-9

MONTANA

RUNWAY SEALING— **Billings, Mont.**
(Estimated cost $23,000)

The U. S. Commerce Department has allocated $38,669 in federal matching funds for chip sealing a new 8,600' runway and for a new air traffic control tour at Logan Field, previously known as Billings Municipal Airport.
EE 4-13

DOMESTIC WATER SUPPLY SYSTEM— **Billings, Mont.**

Preliminary planning for construction of a domestic water supply and distribution system to serve a special improvement district known as the Billings Bench adjacent to Billings, will be financed with a loan of $18,000 approved by Housing and Home Finance Agency, according to L. R. Durkee, area representative, Seattle area office, 450 Federal Office Bldg., Seattle. The advance, when construction starts, will be made to Yellowstone County, Mont. Construction is expected to start no later than June 1, 1959. Plans and specifications by Morrison-Maierle, Inc., 910 Helena Ave., Helena.
SP 4-17. Previous report 12-14

●WATER SUPPLY— **Bozeman, Mont.**

Bid opening of April 24 temporarily delayed, pending water rate increase decision, by M. E. Henderson, city manager, City Hall, Bozeman, for the first portion of expansion of the water supply system, including distribution system, new reservoir and booster station, at Bozeman. Plans and specifications with Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena.
LS 4-12. Previous report 3-30

★HYDRAULIC HOIST— **Canyon Ferry Dam, Mont.**

Award to American Ligurian Co., Inc., New York, $22,243 fob Louisville, Mont., by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering one hydraulic hoist for fixed-wheel gate in the pump intake for Helena Valley pumping plant at Canyon Ferry Dam, Helena Valley Unit, Helena-Great Falls Division, Missouri River Basin Project, Mont.; DS-4821. SP 4-13. Previous report 2-20

WATER SYSTEM IMPROVEMENTS, EXTENSION— **Choteau, Mont.**

Bond issue for $150,000 approved in the April election held by City Council, City Hall, Choteau, to finance city water system improvements and extensions. Project includes replacement of the present 10" trunk line from the pumphouse to the city reservoir with 12" pipe; installation of new water lines and fire hydrants in several Choteau additions; purchase of an additional pumping unit; development of two recently drilled wells. A previous bond election held for this project was defeated in December.
LS 4-12. Previous report 12-14

▲EQUIPMENT INSTALLATION— **Fort Peck, Mont.**

Bids received by Bureau of Reclamation, Fort Peck, for installation of supervisory control and telemetering equipment, battery and battery charger for Dawson County substation and Fort Peck dispatching office; DC-4860. Bids opened April 10. TWO LOW BIDS: Electrical Builders Associated, Valley City, Nebr., $3,461; Union Electric Co., Phoenix, Ariz., $4,430.
SP 4-17. Previous report 2-22

SEWAGE LAGOON— **Geraldine, Mont.**

Bond issue for $4,000 approved in April election held by Town Council, Town Hall, Geraldine, to finance construction of a sewage disposal lagoon at Geraldine.
LS 4-12

★PAVING— **Glasgow, Mont.**

Eight bids ranging from a basic figure of $634,295 to $724,859 were received April 1 by the City Council, City Hall, Glasgow for paving and storm sewers in 72 blocks in SID No. 80 and 19 blocks in SID No. 81. The contract was awarded to the low bidder on basis of eliminating the storm sewer schedule. AWARD: Northwestern Construction Co., Rapid City, S. Dak., $534,988 on basis of basic bid using ¼" sand cover material and eliminatng the storm sewer schedule. Following are the three low bids: 1—Northwestern, $634,295 (basic using chip cover), $632,165 (basic using sand cover), $625,518 (alternate requiring narrowing avenues from 31' to 45', using chip cover), $623,469 (alternate using sand), $97,177 (storm sewer only). 2—Robertson & Cave, Inc., Box 1488, Great Falls, $651,697, no bid $641,082, no bid $109,309. 3—Richardson Construction Co. Miles City Mont., $676,394, $678,950, $668,952, $671,412, $130,658. Plans prepared by Morrison-Maierle, Inc. consulting engineers, 910 Helena Ave., Helena.
DM 4-16. Previous report 3-28

★BULKHEAD GATES, LIFTING FRAME— **Helena, Mont.**

Award to Caird Engineering Works, 1311 N. Montana Ave., Helena, $11,082, Fob Canyon Berry, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Colo., for furnishing and delivering four bulkhead gates, one lot of bulkhead gate seats, guides and hatches, and one lifhting frame for Helena Valley Pumping Plant, Helena Valley Unit, Helena-Great Falls Division, Missouri River Basin Propject, Mont.; DS-4849.
SP 4-10. Previous report 3-20

TAXI STRIP— **Helena, Mont.**

Plans will be complete soon for construction of a 1,420' long by 50' wide taxi strip adjacent to the east-west runway at the airport north of Helena, according to Henry J. Rolfes, city manager, Civic Center Bldg., Helena. Excavation and preliminary preparations for the project are now underway and bids will be called later for the remainder of the project.
LS 4-17

★TRANSFORMER ADDITIONS— **Kalispell, Mont.**

Award to A. T. Johnson, Kalispell, $39,408, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 15 mva transformer additions at Kalispell Substation, Flathead County, Mont.; Inv. No. 8312. WB 4-10. Previous report 3-29

★TRANSMISSION LINES—Missoula, Mont.

Award to Rosebud Construction Co., Box 315, Rudyard, $38,925, by Missoula Electric Cooperative, Inc., 1805 Middlesex, Missoula, for construction of 13.4 mi. of 44-kv transmission line in Powell and Missoula. Plans and specifications by General Engineers Co., 320 N. Higgins Ave. (Box 630), Missoula.
SP 4-13. Previous report 4-6

SEWER SYSTEM— **Missoula, Mont.**
(Estimated cost $2,000,000)

Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem, have been retained by City Council, City Hall, Missoula, to prepare plans and specifications for a city sewer project, incdluding sewage collection system, sewers and sewage treatment plant. A bond election will be held in the summer of 1958 to finance the project. CP 4-17. Previous report 11-29, Sewage Disposal Plant.

★WATER SYSTEM ADDITIONS, IMPROVEMENTS—Thompson Falls, Mont.

Award announced by Town Council, Town Hall, Thompson Falls, for furnishing and installing approximately 700' of 10", 6,800' of 8", 6,000' of 6" and 900' of 4" pipe. Plans and specifications by W. E. Thompson, consulting engineer, 224 Realty Bldg., Spo-

HIGHWAY IMPROVEMENT— **Wolf Point, Mont.**

Bond issue for $100,000 approved in the April election held in Wolf Point, to finance highway improvement.
LS 4-12

WYOMING

●GATE FRAMES— **Casper, Wyo.**

Bids will be opened 2 p.m., May 16, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Casper, one 14'x18' bulkhead gate frame and one 14'x18' fixed-wheel-gate frame (Sched. 1, items 1 and 2) and one lot of anchor bolts for each gate frame (Sched. 2, items 3 and 4), for the inlet gate structure of the Fremont Canyon power conduit; DS-4895. Specifications with above office.
SP 4-13

★FEEDER MAINS— **Casper, Wyo.**

Award to Liesinger Construction Co., 733 E. 14th, Casper, $26,059, by Board of Public Utilities, City-County Bldg., Casper, for installation of 18" and 12" feeder mains in the east Casper area; Contract No. W-57-1.
SP 4-17. Previous report 4-13

★TURBINE PUMPS— **Cheyenne, Wyo.**

Award to Thompson Pipe & Steel Co., Denver, Colo., $1,903 (pump No. 1), $1,025 (pump No. 2), by City Council, City Hall, Cheyenne, for two turbine pumps, electric motors and controls. Bids opened April 1.
SP 4-13. Previous report 3-21

●CABLE REMOVAL, REPLACEMENT— **Encampment, Wyo.**

Bids will be opened 10 a.m., April 23, by U. S. Air Force, Purchasing and Contracting Office, Warren AFB, for removal and replacement of spiral-four cable at Encampment; IFB 48-600-57-67. Specifications with above office.
SC 4-16

▲SUBSTATION, POWERPLANT ADDITIONS— **Guernsey, Wyo.**

Bids received by Bureau of Reclamation, Glendo, for construction of 115- and 34.5-kv additions to Guernsey substation, switchyard and powerplant, Transmission Division, Missouri River Basin Project, near Guernsey, Platte County, Wyo.; DC-4867. Bids opened April 11. LOW BIDS: C.S.P Engineering

Co, Casper, $33,974; Union Electric Co., Phoenix, Ariz., $36,931; Electrical Builders Associated, Valley City, N. Dak., $38,333.
SP 4-17. Previous report 3-9

■ **STREET REPAIR, MAINTENANCE—**
Newcastle, Wyo.

Planholders announced for construction of base course and asphalt mat on 6th St., solid cement at the intersection of Main and Summit St., repair, patching, resealing of existing asphalt streets within the city limits of Newcastle. Bids will be opened 7:30 p.m., April 29, by City Council, City Hall, Newcastle. Plans and specifications with Fletcher-Robinson Engineering Co., consulting engineers, Box 727, Newcastle.

Planholders: Teton Construction Co., Box 197, Cheyenne; Northwestern Engineering Co., Box 1392, Rapid City, S. Dak.; Peter Kiewit Sons' Co., Box 875, Sheridan; Richardson Construction Co., Box 335, Miles City, Mont.; Northwestern Engineering Co., Box 567, Denver, Colo.; Husman Bros., Inc., Big Horn Ave., Sheridan; Summit Construction Co., 728 St. Anne St., Rapid City.
SP 4-17. Previous report 4-5

▲**FISH CULTURAL STATION—**
Saratoga, Wyo.

No bids received for the April 4 bid opening by U.S. Fish and Wildlife Service, Box 1306, 902 Park Ave. S.W., Albuquerque, New Mex., for installation of 500' of drain pipeline, one steel reinforced concrete pump pit, 60' of 8" pipe for the U.S. Fish Cultural Station at Saratoga; Inv. No. FW2-3353.
SP 4-13. Previous report 4-3

SEWAGE OXIDATION POND—
Torrington, Wyo.
(Estimated cost $92,786)

Plans will be complete soon for construction of a sewage oxidation pond at Torrington, for the City of Torrington. Plans and specifications by Harold Hoskins & Associates, consulting engineers, 725 9th St., Greeley, Colo.
LY 4-17

★**CHIP SEALING—**
Wind River Indian Reservation, Wyo.

Award announced by U.S. Bureau of Indian Affairs, Billings, for chip sealing 6.2 mi. of the Fort Washakie-Arapahoe Road, Wind River Indian Reservation, Fremont County, Wyo. Bids opened April 4. AWARD: Wyoming Paving Co., Riverton, $13,680. ONLY OTHER BID: Gilpatrick Construction Co., Riverton, $22,413.
EE 4-16. Previous report 3-13

SEWAGE PLANT— **Worland, Wyo.**

Bond issue for $147,000 approved in the election held by Town Council, Town Hall, Worland, for construction of a lagoon type sewage disposal plant on the north side of Worland. Plans by Harold Hoskins & Associates, consulting engineers, 725 9th St., Greeley, Colo. EE 4-4. Previous report 12-28

UTAH

●**TRANSMISSION LINE—Bountiful, Utah**

Bid opening extended from 10 a.m., April 16, to 10 a.m., June 4, by Bureau of Reclamation, Ogden, for Davis Aqueduct 46_kv wood-pole transmission line, Weber Basin Project, near Bountiful, Davis County, Utah; DC-4863. SP 4-10. Previous report 3-5

★**RESERVOIR—** **Kaysville, Utah**

Award to MAC Construction Co., 3740 Lois Lane, $45,200, by City Council, City Hall, Kaysville, for construction of a 1,000,000-concrete reservoir for the city of Kaysville. Plans by Caldwell, Richardson & Sorenson, architects, Zions Savings Bank Bldg., Salt Lake City. GH 4-9. Previous repirt 3-23

●**SEWAGE TREATMENT PLANT, EQUIPMENT—** **Ogden, Utah**

Bids will be received until 5 p.m., May 20, by R. F. Starley, secretary of Board of Trustees, at the office of the City Manager, City-County Bldg., Ogden, and will be opened at 8 p.m. on that date, for construction of a sewage treatment plant (Part 2), General Contract), installation of equipment (already purchased under Sewage Treatment Plant, Part 1, Equipment), and for furnishing certain items of equipment, all involved in the sewerage improvements for Central Weber Sewer Improvement District in Ogden. Plans and specifications with Grix & Mueller-Hennington, Durham & Richardson, Inc., consulting engineers, 3930 Riverdale Road, Ogden, or 2962 Harney St., Omaha, Nebr. $25 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on treatment plant construction and installation of equipment (all one contract) and on equipment items.

TREATMENT PLANT: two bar screen; three grit removal units; one metering flume; one control building including sewage pumps, vacuum filtration equipment, laboratory and electrical controls; three primary clarifiers; 12 rock filters; three final clarifiers; one chlorine house and chlorinating equipment; one sludge holding tank; outside piping; fence and all mechanical and electrical work. EQUIPMENT INSTALLATION: Screening equipment; grit removal equipment; clarifier; mechanisms; rotary distributors; chlorination equipment; vacuum filtration. EQUIPMENT FURNISHING: Four raw sewage pumps, motor and magnetic couplings; 2,400-volt switch gear assembly; 480-volt unit substation; two motor control centers; laboratory equipment.
SP 4-13

TELEPHONE SYSTEM EXPANSION—
Ogden, Utah
(Estimated cost $769,000)

Plans underway by Mountain States Telephone & Telegraph Co., 436 21st Ave., Ogden, for an expansion program for Ogden and Clearfield. The program will be executed in four phases with the following estimates involved: $500,000 for six-mile conduct from the telephone office to southern part of the city; $69,000 for a similar project which will improve service in the northeast; $200,000 for central office equipment improvement and expansion.
SC 4-17

▲**SEWER SYSTEM—** **Salt Lake City, Utah**

Bids received by Salt Lake County Commissioners, City-County Bldg., Salt Lake City, for construction of a new Salt Lake County Cottonwood Sanitary District, to include a collection system and a sewage treatment plant, at Salt Lake City. Specifications by Neff Engineering Co., 2500 Exergreen Ave., Salt Lake City. Bids opened April 9. LOW BIDS—COLLECTION SYSTEM—SCHED. 1: Tiago Construction Co., 3399 S. 2nd West, Salt Lake City, $178,294; L. H. Poulsen Construction Co., 214 N. 2nd East, Brigham City, $182,208; R. W. Coleman Plumbing & Heating Co., 2270 Washington Blvd., Ogden, $188,992. SCHED. 2: Wheelwright Construction Co., Box 109, Ogden, $337,084; Enoch Smith & Sons Co., 1441 Beck St., Salt Lake City, $357,611; M. Morrin & Sons and Evan W. Ashby (joint venture), 473 W. 2nd St., Ogden, $379,900. SCHED. 3: Enoch Smith & Sons Co., Salt Lake City, $375,213; Wheelwright Construction So., Ogden, $428,861; Tiago Construction Co., Salt Lake City, $437,330. SEWAFE TREATMENT PLANT: Tolboe & Harlin Construction Co., 3091 S. Main St., Salt Lake City, $372,440; Davis Construction Co., Provo, $373,020; Cannon Construction Co., 959 S. 7th West, Salt Lake City, $378,127.
GH 4-12. Previous report 4-2

★**TURBINE PUMP—** **Salt Lake City, Utah**

Award to Nickerson Pump & Machinery Co., 158 W. 4th South, Salt Lake City, $9,045, by Metropolitan Water District, Fisher Harris, manager, 703 Tribune Bldg., Salt Lake City, for manufacture, delivery and installation of a vertical motor driven deep well turbine pump and accessories.
GH 4-13. Previous report 4-2

★**RESERVOIR—** **Salt Lake City, Utah**

Award to Weyher Construction Co., 580 S. 4th West, Salt Lake City, $32,252, by Salt Lake City Corp., Roy W. McLeese, city engineer, City County Bldg., Salt Lake City, for construction of a 500,000-gallon reservoir to be located near 19th Ave. and G St. in Salt Lake City. Plans will be complete later this month for the new 24'x36' booster pumping station which will be located in the same area. The pumping station will include five centrifugal pumps as follows: one 4", 40-hp., one 1½", 15-hp., one 2½", 40 hp., one 2½", 15 hp. and one 2", 76 hp.
GH 4-16. Previous report 1-

★**GOVERNORS—Weber Basin Project, Ut**

Award to Woodward Governor Co., Rockford, Ill., $41,414, fob Rockford, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering three governors for regulating speed of hydraulic turbines. Schedules 1 and 2, for Wanship Powerplant and Gateway Powerplant, Weber Basin Project, Utah; DS-4843. SP 4-4. Previous report 3-

★**CONTROL DISTRIBUTION BOARDS—**
Weber Basin Project, Ut

Awards announced by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Ogden, control and distribution boards and battery chargers for Wanship and Gateway powerplants, Weber Basin Project, Utah; DS-4838. AWARDS—SCHED. Nos. 1 2 (two control boards, two power distribution boards): Keith Electric Construction Co., Des Moines, Iowa, $32,335. SCHED. (two battery chargers): Lee Electric & Mfg. Co., Los Angeles, Calif., $2,250.
SP 4-6. Previous report 3-

ALASKA

★**WHITE ALICE INSTALLATIONS—Alaska**

Awards have been announced by Western Electric Co., prime contractor for construction of selected White Alice facilities in Alaska. The White Alice projects which are being constructed by the U. S. Air Force and the Army Corps of Engineers, involve construction of towers and foundations, equipment and generator buildings, installation of antennas, as part of a territory-wide communications network. The awards announced by Western Electric Co. are for White Alice Work for the U. S. Air Force as follows: Beck Constructors, 3647 Stone Way, Seattle, $4,778,794 for facilities at Nome, Northeast Cape and Tin City (Wales); Reed & Martin, Box 568, Fairbanks, $1,450,000 (approximate figure) for facilities at Pedro Dome and area near Fairbanks.
DC 4-

▲**DIESEL ENGINE GENERATOR UNITS—**
Anchorage, Alask

Bids received by Corps of Engineers, Alaska District, in the Seattle branch office, 4735 E. Marginal Way, Seattle, for 23 diesel engine generator units; ENG-95-507-57-7 Bids opened April 9.

BIDDERS: Chicago Pneumatic Tool Co., 201 1st S., Seattle, $607,935 (item 1, 15 each fob railroad cars contractor's plant), $621,8 (item 1-A, fob E. Marginal Way), $11,2 (item 2, engineering services for 150 days), $323,944 (item 3, 8 each fob contractor's plant), $332,680 (item 3-A, fob E. Marginal Way), $6,750 (item 4, engineering services for 90 days); White Diesel Engineering Division, The White Motor Co., Fisherman Terminal, Seattle, $587,235, $606,555, $12,15 $314,280, $324,568, $7,290; Waukeska Motor Co., Waukeska, Wis., $727,500, $752,250, $7,50 $386,000, $401,200, $4,500; Cooper-Bessemer Corp., 954 Elliott Ave., Seattle, $1,251,41 $1,296,075, $7,500, $738,419, $762,279, $4,500.
SP 4-10. Previous report 3-1

STREET IMPROVEMENTS, SEWERS—
Anchorage, Alask

Project contingent upon April 23 sales tax issue election for street improvements and sewer construction in Anchorage, according to George O. Matkin, city engineer, City Hall, Anchorage.
SP 4-12. Previous report 3-2

●**SEWERS, STREETS, BULKHEADS—**
Cordova, Alaska
(Estimated cost $240,000)

Bids will be opened 10 a.m., May 22, by Alaska Public Works, Thomas G. Mooney, director, Box 1181, Juneau, for construction of sewers, streets and bulkheads in Cordova; Proj. Aaa 50-A-43. Specifications with above office. $25 deposit. Certified check or bid bond 5%.

Quantities: 2,610' of 8" to 15" sewer pipe; 200' cast iron pipe for outfall; 500' cast iron sewer pipe; 1,350' outfall outlet ditch; one outfall headwall; 18 standard manholes; 11 drop manholes; one cleanout; 9 standing connections; 200' steel sheet piling; bulkhead. JU 4-13. Previous report 3-13

●BRIDGES— Delta River Valley Alaska

Bids will be opened 11 a.m., May 14, by Bureau of Public Roads, 319 Federal Bldg. (Box 1961), Juneau, for construction of four Delta River Valley bridges, Richardson Highway, Alaska; Proj. No. F-071-4(2). Specifications with above office. Bid bond 5%.

PHELAN CREEK BRIDGE: To consist of 80'x24' single span one-beam structure with concrete deck and stub concrete abutments suported on 10BP42 steel piles, and approaches. MILLER CREEK BRIDGE: To consist of 180'x24' continuous one-beam structure with 55', 70' and 55' spans on built-up steel rail piling and concrete substructure and concrete deck, and approaches. LOWER MILLER CREEK BRIDGE: To consist of 150'x24' one-beam structure with three simple 50' spans with concrete deck supported by a concrete substructure on built-up steel rail piles, and aproaches. CASTNER CREEK BRIDGE: To consist of 150'x24' one-beam structure with 46', 58' and 46' spans on built-up steel rail piling and concrete substructure and concrete deck, and approaches. J U 4-16

★RUNWAY EXTENSION, ACCESS ROAD, LIGHTING SYSTEM— Galena Airport, Alaska

Award to Peter Kiewit Sons' Co., 1300 Aloha St., Seattle, $938,303 (Sched. A), by Corps of Engineers, Alaska District, in the Seattle district office, 4735 E. Marginal Way, Seattle, for construction of runway extension and access road at Galena Airport; ENG-95-507-57-39. Award on Sched. B involving high intensity runway and approach lighting under the same invitation has not yet been awarded; the government reserves the right to award the contract to the low bidder at the low bid figure within 90 days.

GLEN CANYON DAM

Bids received by Bureau of Reclamation, L. F. Wylie, project engineer, Box 267, Kanab, Utah, for construction of the Glen Canyon Dam and Powerplant, Arizona-Utah, Middle River Division, Colorado River Storage Project; Spec. No. DC-4825. The work is situated on the Colorado River in Coconino County, Arizona, approximately 15 mi. upstream from Lees Ferry, Ariz. Bids opened April 11. LOW BIDS: Merritt-Chapman & Scott Corp., 260 Madison Ave., New York City, $107,955,122; Glen Canyon Contractors (Morrison - Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Henry J. Kaiser Co., Hesperian Blvd. and S.P. Tracks, San Lorenzo, Calif.; Peter Kiewit Sons' Co., 1300 Aloha, Seattle, and Brown & Root, Inc., Box 3, Houston, Texas), $118,336,476; Perini Corp. (Perini, Inc., 73 Montwait Ave., Farmingham, Mass.; The Shea Co., 2801 W. Mission Road, Alhambra, Calif.; Ralph E. Mills Co., Box 513, Salem, Va., and F. & N. Contracting Co.), $120,178,853. Engineer's estimate, $135,608,170.
SP 4-12. Previous report 3-19

Low bidder on March 27 for Sched. B was also Peter Kiewit & Sons' Co. at $476,166.
SP 4-13. Previous report 3-28

★CHANNEL IMPROVEMENT— Juneau, Alaska

Award to Denali-McCray Co., Box 1111, Juneau, $403,929, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for channel improvement, including diversion and control of water, concrete removal, channel lining and bridge modification, at Gold Creek, Juneau; CIVENG-95-507-57-3.
SP 4-13. Previous report 3-28

●CLEARING, GRADING— Juneau, Alaska

Bids will be opened 11 a.m., May 14, by Bureau of Public Roads, room 311, Federal and Territorial Bldg., Box 1961, Juneau, for clearing, grading on Fairbanks - Nenana Highway, Section B, Alaska; Proj. F-037-1(1). Specifications with above office. Bid bond 5%.

Quantities: 18 acre clearing and grubbing; 318,000 c.y. excavation; 2,200 c.y. excavation for structures; 115,000 c.y. borrow; 134,000 c.y. mi. overhaul of borrow; 10 acre pit clearing; 47,000 c.y. pit stripping; 6,830' corrugated galvanized sheet metal pipe.
JU 4-16

★BIRCH CREEK BRIDGE— Juneau, Alaska

Award to United General Constructors, Box 397, Seatle, Wash., $161,811, by Bureau of Public Roads, 319 Federal Bldg. (Box 1961), Juneau, for construction of the 350'x 14' high truss Birch Creek bridge to be located at Mile 147, Steese Highway, Fourth Judicial Division, Alaska; Proj. No. 0670 (1).
JU 4-16. Previous report 4-12

●TACAN FACILITIES— Kotzebue, Unalakleet AF Stations, Alaska

A bid opening of April 23 has been established by Corps of Engineers, Alaska district office, D-E Bldg., Anchorage, for construction of Tacan facilities at Unalakleet AF Station: for complete information see Tacan Facilities, Unalakleet AF Station, PCD 4-11. The previously proposed Tacan facility at Kotzebue has been deleted from the specifications. Both projects were originally advertised under Inv. No. ENG-95-507-57-67 for opening March 22 and were subsequently deferred epnding availability of additional funds. SP 4-12. Previous report 3-21

▲GRADING— Wrangell, Alaska

Bids received April 16 by Bureau of Public Roads, 311 Federal Bldg., Juneau, for grading 5.232 mi. Wrangell Highway, FHP 16-A4, C4, D3, E2. LOW BIDS: Stock & Grove, Inc., Box 2051, Anchorage, $578,659; Kiel & Peterman, Box 770, Juneau, and Berg Construction Co., Box 1804, Juneau, joint venture, $621,352; S. S. Mullen, Inc., 646 Holgate, Seattle, $626,719. Project involves 22.5 acre clearing; 15 acre grubbing; 81,700 c.y. excavation; 101,000 c.y. borrow; 298,000 sta. yd. overhaul; 24 c.y. concrete; 120,000 c.y. mi. borrow overhaul; 5,332' pipe.
JU 4-17. Previous report 3-23

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.

KENAI HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., MAY 8
Juneau, Alaska
NOTICE TO CONTRACTORS

Reference, Project Aaa. 50-A-195, High School, Kenai, Alaska. March 25, 1957, Kenai High School, Project Aaa. 50-A-195, Kenai, 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 8, 1957 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 2723, 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-195, High School, Kenai, Alaska, Contract A. The construction of a reinforced concrete steel, and wood frame multipurpose and boiler room addition containing approximtaely 7500 sq. ft.. Contract B. The construction of a reinforced concrete and wood frame academic addition containing approximately 8000 sq. ft. with an alternate for a shop area containing approximately 1200 sq. ft. An opportunity will be given in the bid documents of this project and Project Aaa. 50-A-234, High School, Homer, Alaska, to permit a reduction in the base bids, should both projects be awarded to the same contractor.
5754—4-6, 13, 20

FISH PONDS, PIPELINE
BIDS CLOSE 10 A.M., P.S.T., APRIL 25
Bozeman, 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., April 25, 1957, and then publicly opened, for the construction of six concrete fish ponds, steel pipeline, and related work, at the U. S. Fish Cultural Station near Bozeman, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director. 5768—4-11, 17

SANITARY SEWERS, BULKHEADS
BIDS CLOSE 10 A.M., P.S.T., MAY 22
Cordova, Alaska
NOTICE TO CONTRACTORS

Reference, Project Aaa. 50-A-43, Sewers and Bulkheads, Cordova, Alaska. Date, April 10, 1957. CORDOVA SANITARY SEWERS AND BULKHEADS, Project Aaa. 50-A-43, Cordova, 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 22, 1957, 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 as follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, 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-43, Sewers and Bulkheads, Cordova, Alaska. Consisting of the following approximate quantities: 2,610 l.f. 8 to 15 sewer pipe, 800 l.f. cast iron pipe for outfall, 500 l.f. cast iron sewer pipe, 1,350 l.f. outfall outlet ditch, 1-outfall headwall, 18 standard manholes, 11 drop manholes, 1-cleanout, 9 standing connections, 200 l.f. steel sheet piling bulkhead (lump sum), and other miscellaneous items. 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. 5774—4-20, 27; 5-4

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., APRIL 23
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, April 23, 1957, 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 13 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining and Grading on 1.014 miles of Primary State Highway No. 2 in Kittitas County, KEECHELUS INN TO SUNSET LODGE, FAP No. I-002-2(7), involving about 4 acres of Clearing, 21,980 cubic yards of Common Excavation, 163,-140 cubic yards of Solid Rock Excavation, 453 linear feet of Concrete Pipe 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 and Grading on 2.169 miles of Primary State Highway No. 2 in Kittitas County, SUNSET LODGE TO KEECHELUS DAM, FAP No. I-002-2(8), involving about 32 acres of Clearing, 393,-600 cubic yards of Common Excavation and Borrow, 255,130 cubic yards of Solid Rock Excavation, 62,080 units of Overhaul, 186 cubic yards of Concrete, 31,930 pounds of Steel Reinforcing Bars, 1,554 linear feet of Concrete Pipe, 234 linear feet of Corrugated Metal Pipe, 71,030 tons of Riprap and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
3. Clearing, Draining, Grading and Constructing Reinforced Concrete Bridge Abutments and Moving Steel Bridge on 4.164 miles of Primary State Highway No. 2 in Kittitas County, KEECHELUS DAM TO MIDWAY, FAP No. I-002-2(9), involving about 120 acres of Clearing, 565,-260 cubic yards of Common Excavation and Borrow, 61,100 cubic yards of Solid Rock Excavation, 89,230 units of Overhaul, 46,390 cubic yards of Excavation of Unsuitable Material, 1,805 cubic yards of Maintenance Rock and Ballast, 2,991 linear feet of Concrete Pipe, 400 cubic yards of Riprap, 1,219 cubic yards of Concrete, 160,420 pounds of Steel Reinforcing Bars, a lump sum bid for Moving Steel Span and other items. Minimum Wage Rates for this project have ben predetermined by law and are set forth in the bid proposal.
4. Clearing, Draining and Grading on 4.261 miles of Primary State Highway No. 2 in Kittitas County, MIDWAY TO KACHESS RIVER, FAP No. I-002-2(10), involving about 62 acres of Clearing, 261,520 cubic yards of Common Excavation, 162,170 cubic yards of Solid Rock Excavation, 42,280 units of Overhaul, 135 cubic yards of Concrete, 21,050 pounds of Steel Reinforcing Bars, 3,063 linear feet of Concrete Pipe and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
5. Draining, Grading, Surfacing, Constructing a Cement Treated Base, Paving with Type 1-1 Asphaltic Concrete and Constructing Three Reinforced Concrete Slab Bridges on 3.388 miles of Primary State Highway No. 18 in Grant County, MOSES LAKE BRIDGE EAST, FAP No. I-002-4(5) Unit 1, involving about 554,270 cubic yards of Common Excavation, 94,980 units of Overhaul, 980 cubic yards of Excavation of Unsuitable Material, 32,500 cubic yards of Stripping Borrow and Surfacing Pits, 46,240 tons of Selected Material, 22,820 tons of Crushed Stone Surfacing, Ballast and Crushed Cover Stone, 292 tons of Asphalt Cement, 12,930 tons of Asphaltic Concrete, 120 cubic yards of Mineral Aggregate, 47,200 tons of CTB Aggregate, 5,390 barrels of Portland Cement, 3,536 linear feet of Cement Concrete Gutter, 1,382 linear feet of Cement Concrete Curb, 1,454 linear feet of Concrete Pipe, 988 linear feet of Corrugated Metal Pipe, 1,192 linear feet of Cast Iron Pipe, 270 linear feet of Galvanized Conduit Pipe, 8,572 linear feet of Beam Guard Rail, 34,450 tons of Riprap, 28,060 linear feet of Wire Fence, 1,952 cubic yards of Concrete, 339,080 pounds of Steel Reinforcing Bars, 840 linear feet of Concrete Piling and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
6. Clearing, Draining and Grading on 1.798 miles of Primary State Highway No. 1 in Skagit County, ANACORTES VICINITY, FAS Nos. S-0964(3) and US-0964(4), involving about 36 acres of Clearing, 378,830 cubic yards of Common Excavation, 139,-780 cubic yards of Solid Rock Excavation, 126,750 units of Overhaul, 2,310 cubic yards of Crushed Stone Surfacing, Crushed Cover Stone and Mineral Aggregate, 35 tons of Asphalt Cement, 2,780 tons of Asphaltic Concrete, 1,794 linear feet of Asphaltic Shoulder Curb, 1,509 linear feet of Concrete Pipe, 2,182 linear feet of Corrugated Metal Pipe, 2,955 linear feet of Iron Pipe and other items.
7. Clearing, Draining, Grading and Constructing a Reinforced Concrete Box Girder Bridge on 7.666 miles of Secondary State Highway No. 1-A in Snohomish County, GETCHELL ROAD TO ARLINGTON, FAS No. S-SG-0202(6), involving about 96 acres of Clearing, 448,835 cubic yards of Common Excavation, 36,260 units of Overhaul, 38,130 cubic yards of Excavation of Unsuitable Material, 7,330 cubic yards of Selected Roadway Borrow, 218 cubic yards of Crushed Stone Surfacing, 160 tons of Bituminous Mix, 3,375 linear feet of Asphalt Lined Roadway Ditch, 5,336 linear feet of Concrete Pipe, 700 linear feet of Corrugated Metal Pipe, 1,486 linear feet of Wire Fence, 1,120 cubic yards of Concrete, 228,200 pounds of Steel Reinforcing Bars and other items.
8. Surfacing, Constructing a Cement Treated Base and Paving with Type 1-1 Asphaltic Concrete on 4.838 miles of Primary State Highway No. 11 in Adams County, HATTON COULEE TO LIND COULEE, FAP No. F-033-2(5), involving about 6,750 cubic yards of Common Excavation, 350 cubic yards of Solid Rock Excavation, 55,725 tons of Crushed Stone Surfacing and Crushed Cover Stone, 240 tons of Asphalt Cement, 11,575 tons of Asphaltic Concrete, 3,130 barrels of Portland Cement, 18,180 tons of CTB Aggregate, 46 cubic yards of Concrete, 10,220 pounds of Steel Reinforcing Bars, 4,777 linear feet of Beam Guard Rail, 240 linear feet of Cement Concrete Curb, 34 Guide Posts and other items.
9. Draining, Grading and Constructing a Reinforced Concrete T-Beam Bridge on 1.199 miles of Primary State Highway No. 12 in Pacific County, WILLAPA RIVER BRIDGE AND APPROACHES, FAP No. F-006-2(4) Unit 1, involving about 43,520 cubic yards of Common Excavation and Borrow, 1,070 cubic yards of Excavation of Unsuitable Material, 2,070 tons of Crushed Stone Surfacing and Ballast, 1,188 linear feet of Corrugated Metal Pipe, 188 linear feet of Corrugated Metal Cattle Pass, 94 linear feet of Iron Pipe, 150 linear feet of Plastic Pipe, 404 cubic yards of Concrete, 77,000 pounds of Steel Reinforcing Bars and other items.
10. Clearing, Draining, Grading and Surfacing with Crushed Stone on 4.293 miles of Whitman County Road, ENSLEY CHANGE IN ALMOTA ROAD, FAS No. S-1154(1), involving about 152,230 cubic yards of Common Excavation, 18,430 cubic yards of Solid Rock Excavation, 16,140 units of Overhaul, 62,400 tons of Crushed Stone Surfacing, 1,806 linear feet of Corrugated Metal Pipe, 600 cubic yards of Riprap and other items.
11. Surfacing with Light Bituminous Surface Treatment on 18.912 miles of a Franklin

County Road, GLADE NORTH ROAD, FAS No. S-1035(3), involving about 32,550 tons of Crushed Stone Surfacing and Crushed Cover Stone, 756 tons of Asphalt Cement and other items.

12. Clearing, Draining and Grading on 3.559 miles of an Okanogan County Road, SALMON CREEK ROAD, FAS No. S-1145(1), involving 60,870 cubic yards of Unclassified Excavation, 76 linear feet of Corrugated Metal Pipe, 1,041 linear feet of Concrete Pipe and other items.
13. Clearing, Draining, Grading and Surfacing with Crushed Stone on 2.397 miles of an Island County Road, QUIGLEY ROAD, FAS No. S-0356(3), involving about 20,760 cubic yards of Unclassified Excavation, 1,340 cubic yards of Common Borrow, 9,380 cubic yards of Selected Roadway Borrow, 3,025 cubic yards of Crushed Stone Surfacing, 1,003 linear feet of Concrete Pipe, 40 linear feet of Corrugated Metal Pipe and other items.
14. Constructing Non-Skid Seal Treatment on 141.48 miles of State Highways Nos. 3, 6, 18, 3-F, 3-J, 6-A, 6-B and 11-F in Lincoln, Pend Oreille, Spokane, Stevens and Whitman Counties, COLFAX TO STEPTOE, ET AL, a State Project, involving about 2,328 tons of Asphalt Cement, 29,235 cubic yards of Mineral Aggregate and 94 M gallons of water.
15. Stockpiling Sand, Maintenance Rock and Mineral Aggregates on Primary State Highway No. 15 in Snohomish County, MONROE AND SNOHOMISH VICINITIES, a State Project, involving about 57,500 tons of Crushed Materials and other items.
16. Stockpiling Crushed Stone Surfacing, Crushed Cover Stone, Maintenance Rock and Mineral Aggregates on Primary State Highways Nos. 2, 10, and 2-F, in Grant and Chelan Counties, COULEE CITY AND LAKESIDE VICINITIES, a State Project, involving about 8,000 cubic yards of Stripping Borrow and Surfacing Pits and 44,050 tons of Crushed Material.
17. Installing Nine Illumination Systems on Primary State Highways Nos. 8 and 1 in Clark, Cowlitz and Lewis Counties, FISHER ROAD INTERCHANGE, ET AL, a State Project, involving 9 lump sum bids for Installation of Illumination Systems.
18. Rehabilitation of Building in Thurston County, REHABILITATION OF STATE HIGHWAY BUILDING AT STATE AND FRANKLIN IN OLYMPIA, a State Project, involving a base bid for the Entire Improvement.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways
5759—4-6, 13

FOOD STORAGE BUILDING
BIDS CLOSE 10 A.M., P.S.T., APRIL 22
Ennis, 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, Extension 246. Sealed bids will be received in this office until 10:00 a.m., P.S.T., April 22, 1957 and then publicly opened, for the construction of a food storage and preparation building complete with refrigeration equipment at the U. S. Fish Cultural Station, Ennis, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.
5761—4-9, 16

ACCESS ROADS
BIDS CLOSE 11 A.M., JULY 7
Juneau, Alaska
NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10. Date: April 5, 1957, Juneau, Alaska. Sealed bids, in single copy, for furnishing all labor, equipment, and materials and performing all work for the Kodiak Naval Air Station Access Road, Project AD-2(3), described herein will be received until 11:00 a.m., May 7, 1957 in Room 311, Federal Building, Juneau, Alaska, and then publicly opened. Plans and specifications may be obtained from the Bureau of Public Roads, Box 1961, Juneau, Alaska. Bid guarantee shall be in an amount not less than 5% of the total amount bid and will be required with each bid. The need for progress payments, where progress payments may legally be made, will not be treated as a handicap in awarding a contract. This project consists of excavation, 142,000 cubic yards; borrow, 81,850 cubic yards; overhaul (excavation), 585,000 station yards; overhaul (borrow) 7,300 cubic yard miles; 24" bituminous coated CSMP (asbestos bonded), 380 lineal feet; 36" bituminous coated CSMP (asbestos bonded), 162 lineal feet; 42" bituminous coated CSMP (asbestos bonded), 216 lineal feet; and beam guard rail, 5,815 lineal feet. E. H. Swick, Regional Engineer.
5771—4-20

ADVERTISEMENT FOR BID

Sealed Bids will be received by the Boeing Airplane Company up to 2:00 P. M., Monday, April 29, 1957, for the following work:

Furnishing all labor, materials, equipment, tools and other items required to construct and install a foundation for a 5,000-ton Bliss press and shelter as a building addition to the Reclamation Building, Boeing Airplane Company, Renton, Washington.

Sealed Bids shall be mailed to the attention of M. G. Votaw, Transport Division, Facilities Department, Box 707, Renton, Washington.

All bid proposals shall be accompanied by a bid bond or cashier's check in the amount of 5% of the total amount bid. Performance and Payment bonds are required from the Contractor.

Drawings, specifications and contract documents are available at the office of Austin Associates, 2930 Fourth Avenue South, Seattle, Washington, on deposit of $25.00.

BOEING AIRPLANE COMPANY

CANAL
BIDS CLOSE MAY 8
Winters, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4881) will be received at Winters, California, until May 8, 1957, for furnishing labor and materials for constructing Putah South Canal from Station 1017+00 to Station 1476+24.52, Solano Project, California. Location near Fairchild, California. Principal items are 602,000 cu. yds. excavation; 14,600 cu. yds. concrete in canal lining; 1,630 cu. yds. concrete in structures; 2,522 lin. ft. concrete pressure pipe; various radial gates, metal slide gates, and miscellaneous installations; and other work. Completion time 480 days. For particulars, address Bureau of Reclamation, Winters, California; or Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.
5751—4-6

WATER SERVICE, DRAIN, SEWER PIPING
BIDS CLOSE 10 A.M., P.S.T., MAY 9
Ephrata, Washintgon
NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, April 2, 1957. Sealed bids, in single, (Specifications No. 117C-429) 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 9, 1957, and then publicly opened for furnishing labor and materials and performing all work for construction of Water Service, Drain and Sewer Piping for approximately 145 Residences Mason Addition-Coulee Dam. This work will include 4,400 cu. yds. excavation, common, and backfill of sewer pipe trenches; 80 cu. yds. excavation rock, and backfill of sewer pipe trenches; 2,100 cu. yds. excavation, common, and backfill of water pipe trenches; 20 cu. yds. excavation, rock, and backfill of water pipe trenches; 3,700 lin. ft. 4-inch diameter cast-iron sewer pipe; 4,700 lin. ft. 4-inch diameter asbestos-cement sewer pipe; 8,600 lin. ft. ¾-inch diameter copper tubing for water service lines; 35 assemblies—curb stops and service boxes; and 8,000 lin. ft. removing and replacing lawn sod. Time allowed for completion will be 200 days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P. O. Box 368, Ephrata, Washington.
5762—4-13

Legal advertisements appearing in our columns come to the attention of construction firms, and equipment and supply houses throughout the entire Pacific Northwest and Alaska.

HIGHWAY CONSTRUCTION
BIDS CLOSE 11 A.M., APRIL 23
Juneau, Alaska
NOTICE TO CONTRACTORS

Sealed bids, in single copy for furnishing all labor, equipment, and materials and performing all work for the project Alaska FHP 11-A5, B6, D1 for construction of Sitka Highway, Territory of Alaska, described herein will be received until 11:00 a.m., April 23, 1957 in Room 311, Federal Building, Juneau, Alaska, and then publicly opened.

Plans and specifications may be obtained from the Bureau of Public Roads, Region 10, P. O. Box 1961, Juneau, Alaska. Plans and specifications may also be examined by prospective bidders at the Bureau of Public Roads District Office in Juneau, Alaska.

Bid guarantee will be in the amount not less than five percent (5%) of the total amount bid, and will be required with each bid. The need for progress payments, where progress payments may legally be made, will not be treated as a handicap in awarding a contract.

The project consists of excavation 2,000 cubic yards; borrow 4,000 cubic yards; watering subgrade 500 units (1000 gal.); crushed gravel or stone base course 20,000 tons; cover aggregate for seal 925 tons; R.C. cut-back asphalt for seal 90 tons; stockpiled plant mix aggregate 500 tons; class F pavement 10,000 tons; timber guide posts 75 each; and beam guard rail 2050 lineal feet. E. H. Swick, Regional Engineer
5757—4-6

HOMER HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., MAY 8
Juneau, Alaska
NOTICE TO CONTRACTORS

Reference, Project Aaa. 50-A-234, High School, Homer, Alaska. March 25, 1957. Homer High School, Project Aaa. 50-A-234, Homer, 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 8, 1957, 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 2723, Interior Bldg., Washington 25, D.C.; at the Area Engineer's office, Alaska Public Works, Reliable Ser-

vice 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: The construction of a reinforced concrete, steel and wood frame high school building containing approximately 12,000 sq. ft. with alternates to provide extra classroom space containing approximately 4,000 sq. ft. An opportunity will be given in the bid documents of this project and Project Aaa. 50-A-195, High School, Kenai, Alaska, to permit a reduction in the base bids, should both projects be awarded to the same contractor.
5755—4-6, 13, 20

FISH PONDS, PIPELINE
BIDS CLOSE 10 A.M., P.S.T., APRIL 23
Kalispell, Montana
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, The Interior Bldg., 1001 N. E. Lloyd Blvd., P. O. Box 3737, Portland 8, Oregon. Telephone BElmont 4-3361, Ext. 246. Sealed bids will be received in this office until 10:00 A.M., P.S.T., April 23, 1957, and then publicly opened, for the construction of six concrete fish ponds, steel pipeline, and related work, at the Creston Fish Cultural Station near Kalispell, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.
5769—4-9, 16

RESIDENCES, OFFICES, SERVICE BUILDINGS
BIDS CLOSE 10 A.M., P.S.T., MAY 9
Ephrata, Washington
NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, April 11, 1957. Sealed bids, in single, (Specifications No. 117C-430) 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 9, 1957, and then publicly opened for furnishing labor and materials and performing all work for construction of Residences, Office, and Service Buildings at Burke Watermaster Headquarters and Residences for O. and M. Housing in Blocks 46, 77 and 79. This work will include constructing 2 three-bedroom frame residences complete with separate double garage in Block 77; 2 two-bedroom frame residences with attached garages and full basements complete with water and sewerage facilities in Blocks 46 and 79; and 1 office building, storehouse, general purpose shop, equipment shelter building and 1 two-bedroom frame residence with attached garage and full basement for additions to Burke Watermaster Headquarters; 1180 cu. yds. excavation for grading and leveling site; 205 cu. yds. excavation, common, for utilities system structures and pipe trenches; 200 cu. yds. excavation, rock, for utilities system structures and pipe trenches; and 980 lin. ft. chain-link fencing. Time allowed for completion will be 120, 180 and 150 days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P. O. Box 368, Ephrata, Washington.
5773—4-20

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A.M., APRIL 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 9:30 A. M., on April 25, 1957. The proposals will be publicly opened and read immediately thereafter.

1. F-IN 117(11) Unit 3—Seal coat oiling 15.727 miles on the Livingston-Big Timber Road in Park and Sweet Grass Counties involving about 3,395 tons hauling and placing state furnished cover material; 102 hours watering; 131 units rolling; 38,463 gals. emulsified asphalt; 38,463 gals. rubberized asphalt; and L. sum furnishing and maintaining facilities for watering. Project to be completed in 60 calendar days. Minimum wage rates for this project have been predetermined by the Secretary of Labor and are set forth in the advertised specifications.

2. F 157(14) Unit 1—Grade, gravel surfacing, bituminous surface treatment and drain 1.505 miles on the Miles City-Jordan Road in Custer County involving about 77,566 cu. yds. excavation; 640 cu. yds. riprap; 100 cu. yds. gravel backfill; 2,947 mi. yds. overhaul; 6,591 tons crushed gravel; 26,687 tons uncrushed gravel; 1,816 M Gal. watering; 305 units rolling; 11,247 gals. liquid asphalt; 11,851 gals. emulsified asphalt; 948 lin. ft. corrugated metal pipe culvert; 166 lin. ft. relay pipe culverts; 600 lin. ft. steel beam guard rail and other items. Project to be completed in 75 calendar days.

3. F 191(16) Unit 1—Grade, gravel surfacing, bituminous surface treatment and drain 7.488 miles on the Pablo-Kalispell Road in Lake County involving about 314,622 cu. yds. excavation; 5,261 cu. yds. riprap; 100 cu. yds. gravel backfill; 366 cu. yds. sand backfill; 17,059 mi. yds. overhaul; 133,529 tons crushed gravel; 42,748 tons uncrushed gravel; 8,238 M gal. watering; 1,391 units rolling; 57,437 gals. liquid asphalt; 57,488 gals. emulsified asphalt; 2,576 lin. ft. corrugated metal pipe culvert; 3,496 lin. ft. reinforced concrete pipe culvert; 400 lin. ft. relay pipe culverts; 750 lin. ft. steel beam guard rail; 9,096 lin. ft. new concrete integral curb and gutter; 2 each reflectorized railroad crossing sign; 2 each reflectorized railroad advance warning sign; and other items. Project to be completed in 300 calendar days.

4. IN 211(12)—Plant mix oiling, seal coat oiling and construction of new steel beam guard rail on 13.783 miles of the Vaughn-Conrad Road in Teton County involving about 2,961 tons crushed gravel; 28,610 tons plant mix; 437,428 gals. asphalt cement; 89 hours watering; 109 units rolling; 26,403 gals. liquid asphalt; all L. sum furnish and maintain water plant; and 200 lin. ft. guard rail. Project to be completed in 90 calendar days. Minimum wage rates for this project have been predetermined by the Secretary of Labor and are set forth in the advertised specifications.

5. F 333(18)—Grade, road mix oiling, and drain 16.376 miles on the Grass Range-Malta Road in Phillips County involving about 1,136,133 cu. yds. excavation; 964 cu. yds. gravel backfill; 57,131 mi. yds. overhaul; 16,997 M gal. watering; 2,266 units rolling; 5,572 lin. ft. corrugated metal pipe culvert; 865 lin. ft. structural plate pipe culvert; 100 lin. ft. relay pipe culverts; 4.63 acres clearing; 1.81 acres grubbing and other items. Project to be completed in 300 calendar days.

6. U-UG 405(2)—The construction of a new 551.6 steel and concrete combination bridge and overpass over the Chicago, Milwaukee, St. Paul & Pacific Railroad and the Clark Fork River on the Madison Street, Fifth & Sixth Streets in the City of Missoula in Missoula County involving about all L. sum structural steel; 1,103.71 lin. ft. steel bridge rail; 263,896 lbs. reinforcing steel; 3,026.6 cu. yds. concrete; 3,890 cu. yds. structure excavation; 181.36 lin. ft. guard fence; 862.1 sq. ft. corrugated transite sheet; 14 [illegible] floor drains; and all L. sum shoring cribs. Project to be completed by July 1959.

7. S 15(9)—Bituminous surface treatment 15.005 miles on the Poplar-Flaxville [illegible] in Roosevelt County involving about 15[illegible] tons crushed gravel; 3,785 M gal. water 917 units rolling; 77,215 gals. liquid asph 77,217 gals. emulsified asphalt; 90 [illegible] blading and 90 hours scraping. Project be completed in 120 calendar days.

8. S 35(7)—Grade, drain and construct of one 50.0' treated timber pile bridge Grasshopper Creek on 7.500 miles on Jackson-Dillon Road in Beaverhead Cou involving about 449,992 cu. yds. excavati 283 cu. yds. gravel backfill; 31,046 mi. overhaul; 6,728 M gal. watering; 360 lin. corrugated metal pipe culvert; 62 lin. structural plate pipe culvert; 2,364 lin. reinforced concrete pipe culvert; 100 lin. relay pipe culverts; 21.680 MBM treat timber; 0.778 MBM untreated timber; lin. ft. treated timber piles and other ite Project to be completed in 150 calendar da

9. S 94(4)—Grade, gravel surfacing drain 5.849 miles on the Chester-Northw Road in Liberty County involving abo 293,118 cu. yds. excavation; 714 cu. y binder; 156 cu. yds. gravel backfill; 1,4 mi. yds. overhaul on binder; 31,358 mi. y overhaul; 20,927 tons crushed gravel; 4,2 M gal. watering; 123 units rolling; 1,018 l ft. corrugated metal pipe culvert; 136 lin. structural plate pipe culvert; 100 lin. relay pipe culverts; and other items. Proje to be completed in 100 calendar days.

10. S 219(1)—Grade, cement stabilized ba bituminous surface treatment and dra 6.006 miles on the Big Sandy-Rubyard Ro in Hill County involving about 127,277 c yds. excavation; 75 cu. yds. gravel backfil 8,987 mi. yds. overhaul; 2,683 tons crushe gravel; 2,979 M gal. watering; 299 uni rolling; 75,146 gals. liquid asphalt; 9 lin. ft. corrugated metal pipe culvert; lin. ft. structural plate pipe culvert; 1 lin. ft. relay pipe culverts; 34,069 cu. yd soil aggregate; 7,421 barrels portland cemen 91,610 sq. yds. processing and other item Project to be completed in 100 calendar day

11. S 359(3)—Grade, gravel surfacing an drain 0.723 mile on the Marsh-Glendive Roa in Dawson County involving about 43,964 c yds. excavation; 127 cu. yds. riprap; 1 cu. yds. binder; 259 cu. yds. gravel backfil 218 mi. yds. overhaul on binder; 4,715 m yds. overhaul; 4,185 tons crushed grave 725 M gal. watering; 16 units rolling; 2 lin. ft. corrugated metal pipe culvert; 1 lin. ft. structural plate pipe culvert; 62 li ft. relay pipe culverts; and other item Project to be completed in 60 calendar day

12. SMP 2299—Crushing and stockpilin crushed gravel surfacing from nine crush set-ups in Beaverhead, Broadwater, Jeffe son and Silver Bow Counties involvi about 97,500 tons ¾" crushed gravel; 149,2 ton miles haul on stockpiled material. Pro ject to be completed by October 31, 1957.

13. SMP 0801-01-01-42—Construction of new 50' by 18' office extension building Miles City in Custer County involving on lump sum for the complete construction.

The above listed quantities are approx mate only.

All bid proposals shall be accompanied b a certified or cashier's check, cash, post money order, bank money order, or b bond in the amount of at least 5% of th bid. Should the successful bidder fail t enter into his contract and furnish a sati factory performance bond within the tim stated in his proposal, the bid deposit sha be forfeited to the State Highway Commis sion of Montana.

Prequalification of bidders at least 7 hours prior to the opening of bids is re quired.

Plans, specifications, forms of contra and bond, proposal blanks, and full instruc tions are on file for examination and ma be obtained at the offices of the State High way Commission in Helena, Montana. Plan and specifications for all Federal Aid Proj ects are also on file and may be examine in the offices of the Bureau of Public Roads at Missoula.

Harry L. Burns, Chairman
Scott P. Hart, State Highway Engineer
5770—4-13, 20

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN



Architecture—an art

Some thoughts about home building

Award-winning budget apartment house

MAY 1957

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

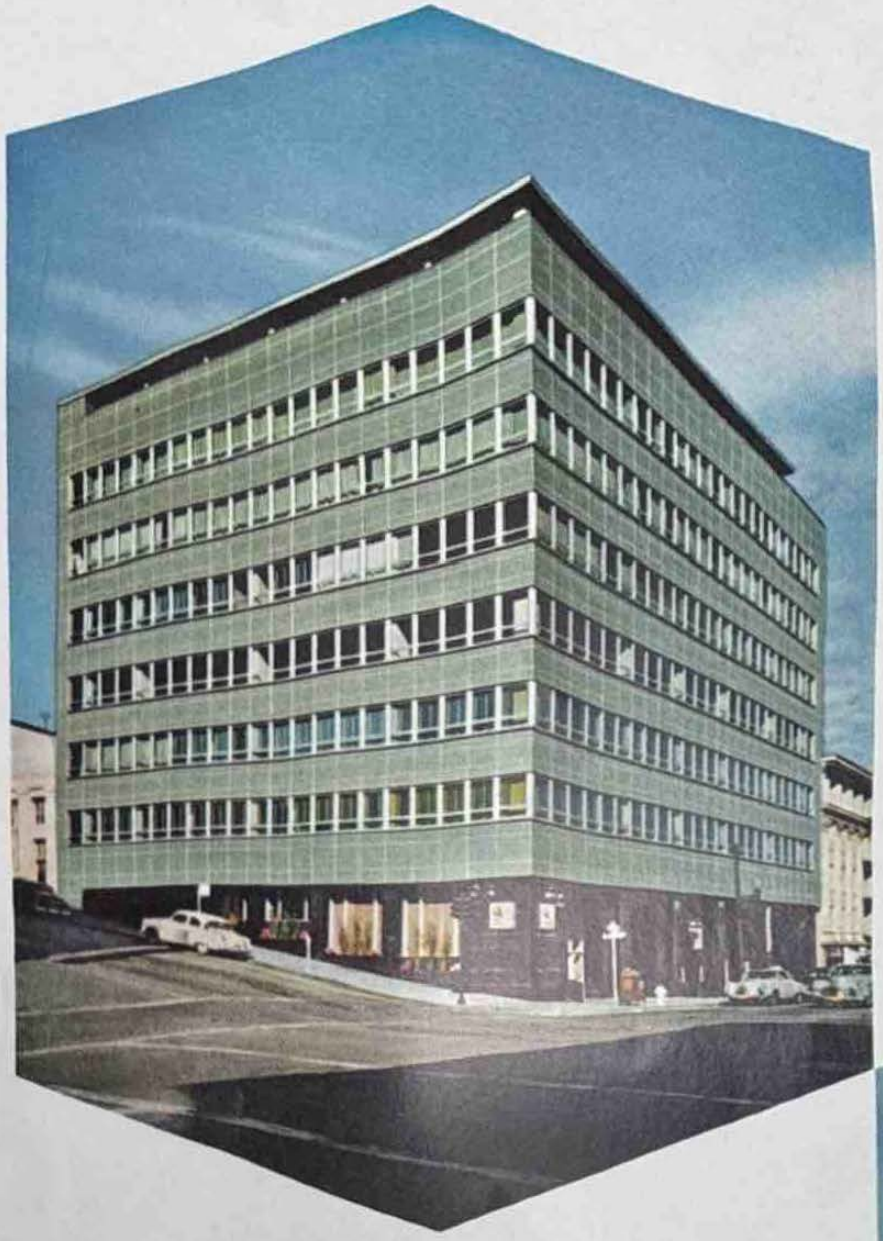


Architecture—an art

Some thoughts about home building

Award-winning budget apartment house

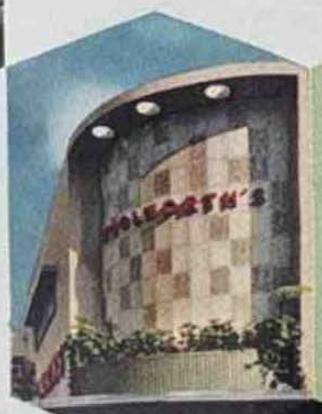
MAY 1957



creative color...

Ceramic Veneer

Pacific Mutual Building, San Francisco, shows how Ceramic Veneer — in a special custom-made grey green mottled color — compliments design appearance. Architects: Loubet & Glynn, A.I.A. General Contractor: MacDonald, Young & Nelson, Inc.



In Honolulu, the F. W. Woolworth Store reveals a unique combination of a bevel shape, tooled and smooth Ceramic Veneer. Striking "Polynesian print" design exemplifies wide range of patterns now possible through the "silk screen" glazing technique. Designers: F. W. Woolworth Co., San Francisco. General Contractor: Walker Moody Co., Ltd., Honolulu.

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Pacific Architect and Builder

VOLUME 63, NUMBER 5 MAY 1957

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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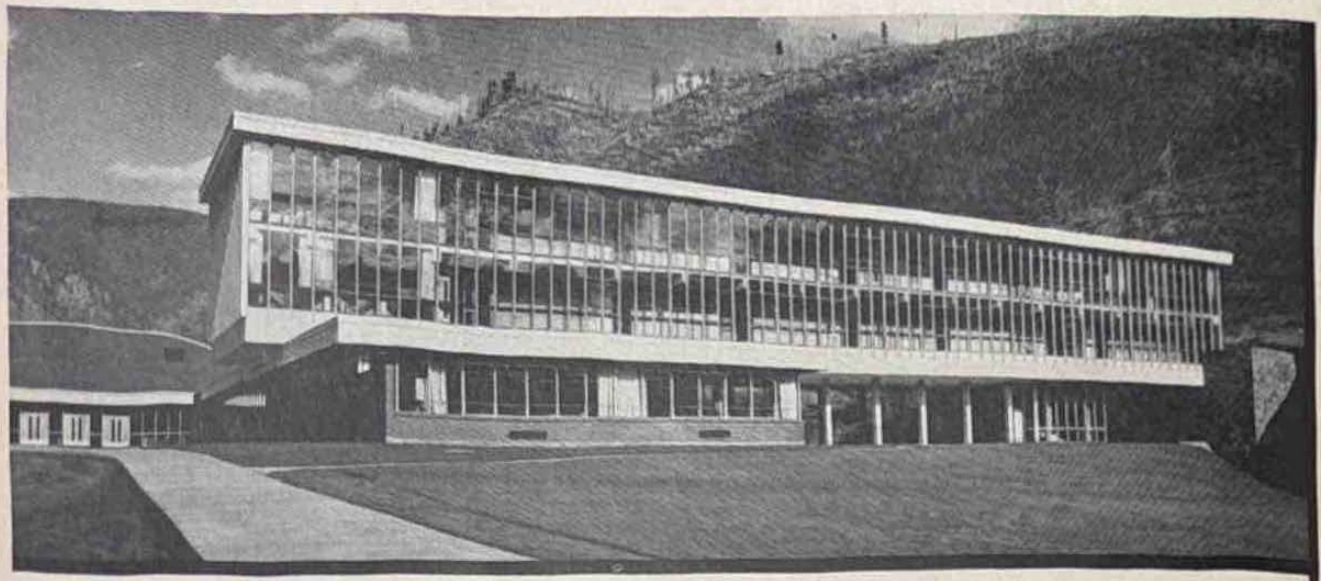
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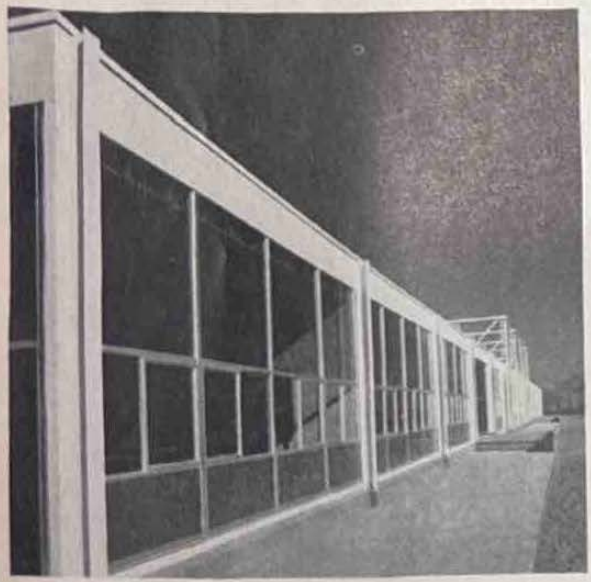
THE COVER

BJ Electronics, Borg-Warner Corp. plant, Santa Ana, Calif. (p) 19. John Kewell & Associates, architects-engineers; Douglas Simmonds photo.

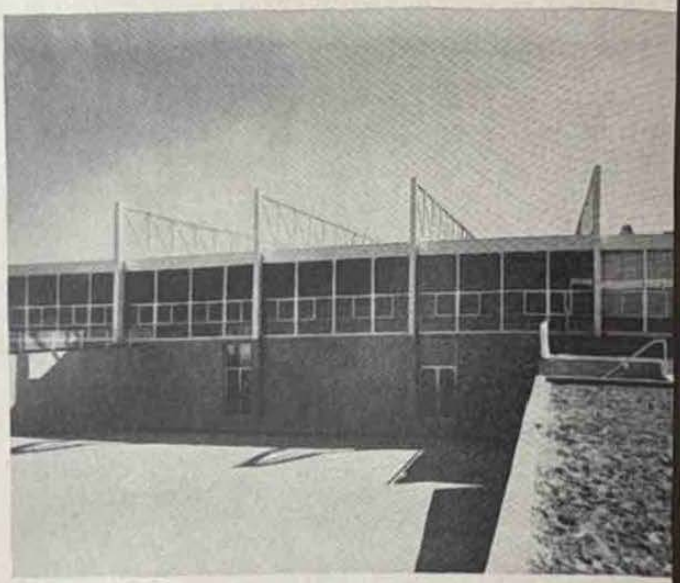
Steel opens new horizons in school design



STEEL FOR BEAUTY! Kellogg High School, Kellogg, Idaho, is a dramatic example of the functional beauty that can be achieved through steel. Fabricated by Gate City Steel, Boise, Idaho, using United States Steel angles, plates, and structurals, it contains 68,000 square feet of space. The contemporary design provides maximum lighting for students and is a permanent structure, economical to maintain. Culler, Gale, Martell, Norrie, of Spokane, Wash., and Perkins and Will, of Chicago, Ill., were associated architects.



STEEL FOR ECONOMY! The Green River School in Utah was built at a cost of less than $10 per square foot . . . one of the most economical school buildings in the Intermountain West! This modern structure features an all-welded frame . . . one of the first in this area. Architects were Cannon, Smith & Gustavson, Salt Lake City. Dean L. Gustavson—partner in charge.



STEEL FOR VERSATILITY! Exposed steel trusses solved a problem in the construction of the Green River School's gymnasium . . . and saved about $30,000 in building costs! Since soil conditions required the building to be founded on pilings, the gym could be recessed half its height into the ground. This unique design allowed for a continuous roof plane. For *your* next project, consider the advantages of steel—United States Steel.

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The Building Month: Trends/Views

WEST COAST ARCHITECTS took the lion's share of honors in the sixth annual competition for better school design conducted by The School Executive magazine. Top awards went to Mario J. Ciampi, San Francisco, for Sonoma Elementary School, Sonoma; Neutra & Alexander, Los Angeles, for the Orange Coast College Science Building, Costa Mesa; John Lyon Reid & Partners, San Francisco, for Walnut Creek Elementary School, Walnut Creek. Honorable mentions went to Ciampi for Olympia Primary School, Daly City; Cox, Hagman & Meyer, Los Angeles, for Death Valley High School, Shoshone; and Waldron & Dietz, Seattle, for Woodway Elementary School, Edmonds.

THE SEATTLE ARCHITECTURAL FIRM of Naramore, Bain, Brady & Johanson has been named winner of a contest to design a 200-ft.-high battle monument on Corregidor Island at the entrance of Manila Bay. With the $10,000 prize goes a commission to supervise construction of the memorial, to include an auditorium seating 500 persons, a library and seminar rooms, when plans are approved by the Philippine government. Fifty-four firms entered the competition, sponsored by the Corregidor-Bataan Memorial Commission, created by Congress in 1953.

THE STATE OF CALIFORNIA IS EXPECTED TO SPEND $174,123,000 during the coming fiscal year for new buildings, broken down as follows: state colleges, $88,800,000; University of California, $21,370,000; Corrections and Youth Authority, $20,196,000; mental health, $20,000,000.

INTERNATIONAL COUNCIL OF SHOPPING CENTERS held its first clinic and annual meeting in Chicago May 13-14. Robert F. Cavin, owner of Town and Country Shopping Center, Sacramento, and James A. Douglas, manager of Northgate Shopping Center, Seattle, are among the directors who helped to form the association, which will establish standards as one of its objectives.

METAL CURTAIN WALL DIVISION of the National Association of Architectural Metal Manufacturers was organized at the group's 19th annual convention in San Francisco May 7-12. One of its main goals will be to establish minimum standards and specifications.

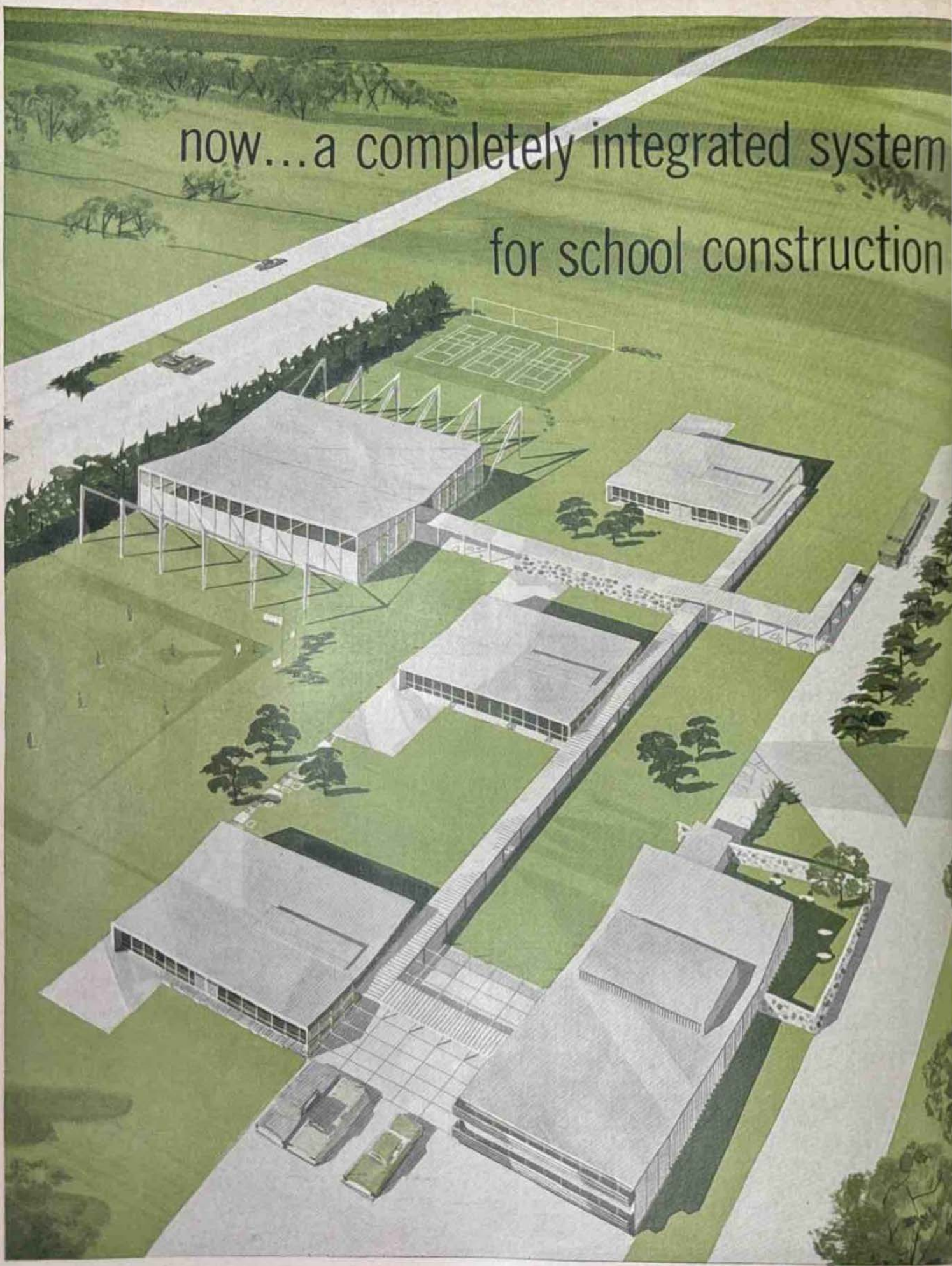
ARCHITECTS AND ENGINEERS CONFERENCE COMMITTEE of California has elected Henry L. Wright, FAIA, of Los Angeles as its first chairman. Wesley T. Hayes, structural engineer of San Francisco is vice chairman and Melton Ferris, executive director of the California Council, AIA, is executive secretary. Chairman Wright calls the joint committee "a milestone in the traditionally close relationship between the architectural and engineering professions in California."

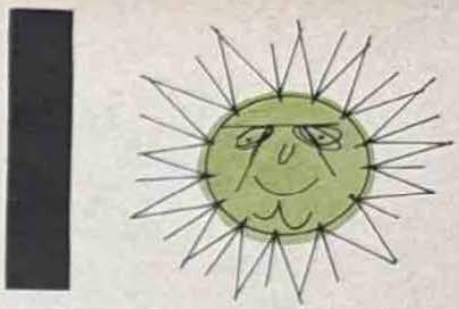
ABOUT ONE OF EVERY 50 VACANT HOUSES in the 16 southern states is so dilapidated it cannot be considered part of the housing supply, the Census Bureau says, which is twice the national average and nearly three times the percentage in the West.

IMPORTANCE OF STRESS ANALYSIS in our modern technology is evident in the announcement of a two-week special summer program devoted to the subject at Massachusetts Institute of Technology June 17-28.

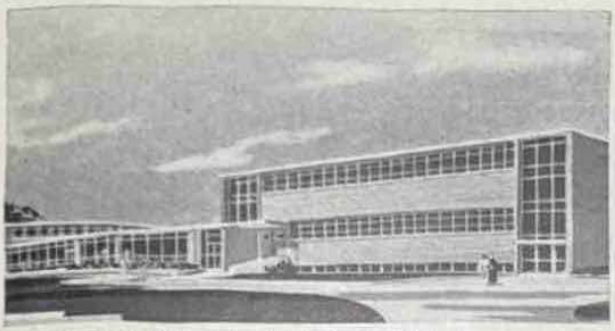
ONE-STORY HOMES ARE BAD FOR HEALTH, the executive director of the President's Council on Youth Fitness told 1,500 delegates to a health and recreation conference in Long Beach, Calif., last month. Dr. Shane MacCarthy, Washington attorney, declared, "The lack of stairs kills benefits formerly received from knee exercise."

A BRIGHT FUTURE FOR PLASTICS IN THE BUILDING INDUSTRY is visualized by The Dow Chemical Co. of Midland, Mich., which has set up a building products group as part of its plastics technical service.


now...a completely integrated system
for school construction



Kawneer unit wall and sun control products



KAWNEER UNIT WALL—Madonna High School, Chicago, Illinois. C. I. Krajewski, Architect-Engineer.

KAWNEER UNIT WALL

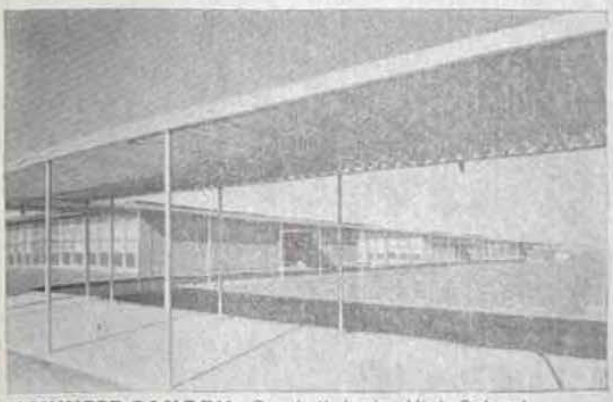
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KAWNEER K-LOUVER—Rowland Union School, Puente, California. Lee B. Kline, A.I.A., Foster Simpson, Illuminating Engineer.

KAWNEER K-LOUVER

Direct sun light, reflected glare and intense sun heat sap student and teacher interest and initiative. Effective control of all these elements is easily achieved through Kawneer K-Louver applications regardless of climate characteristics, building orientation or building size or design. Open louver design allows natural air circulation . . . eliminates heat pockets. Concave-convex louver shape diffuses harsh sun rays . . . provides soft, uniform light throughout the room. Available in fixed or operating form for vertical or horizontal applications that meet any sun control requirement.



KAWNEER CANOPY—Crockett Junior High School, Irving, Texas. Wyatt-Hedrick, Architects.

KAWNEER CANOPY

Year 'round light and weather control is a simple exercise for Kawneer Canopy. Bus loading points, entranceways and walkways between school buildings can be effectively sheltered regardless of climate demands. Open overlap of Kawneer's distinctive "W" shaped sections allows diffused light to filter through, but provides positive protection against wind, rain and snow. Range of widths offers enough flexibility to meet most sheltering requirements.

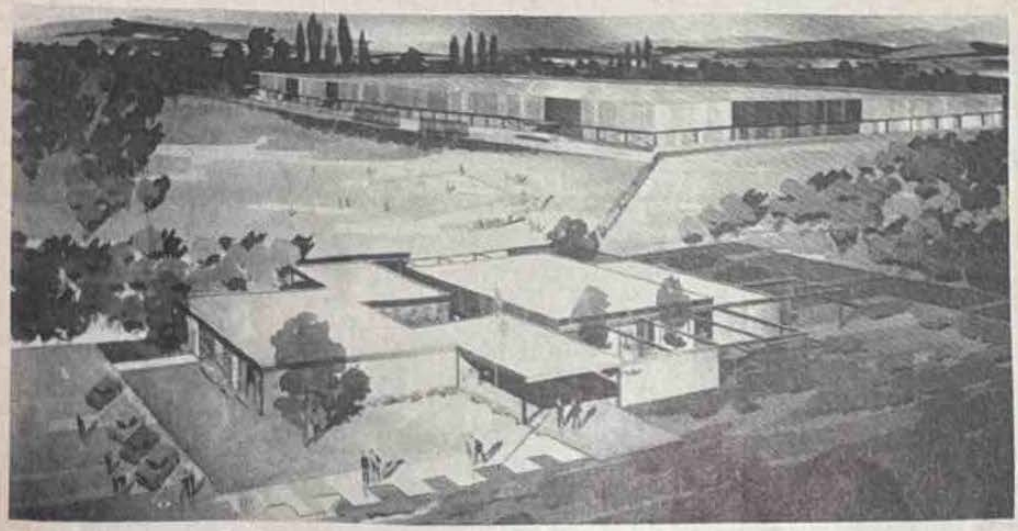




PROJECT PREVIEW

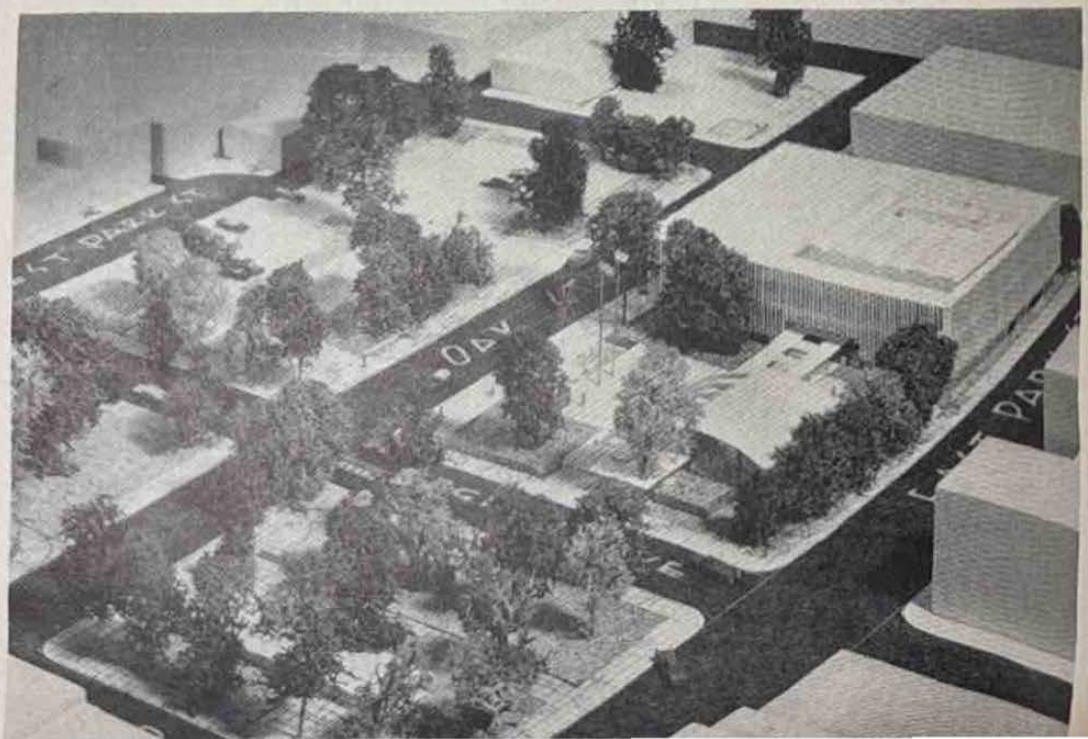


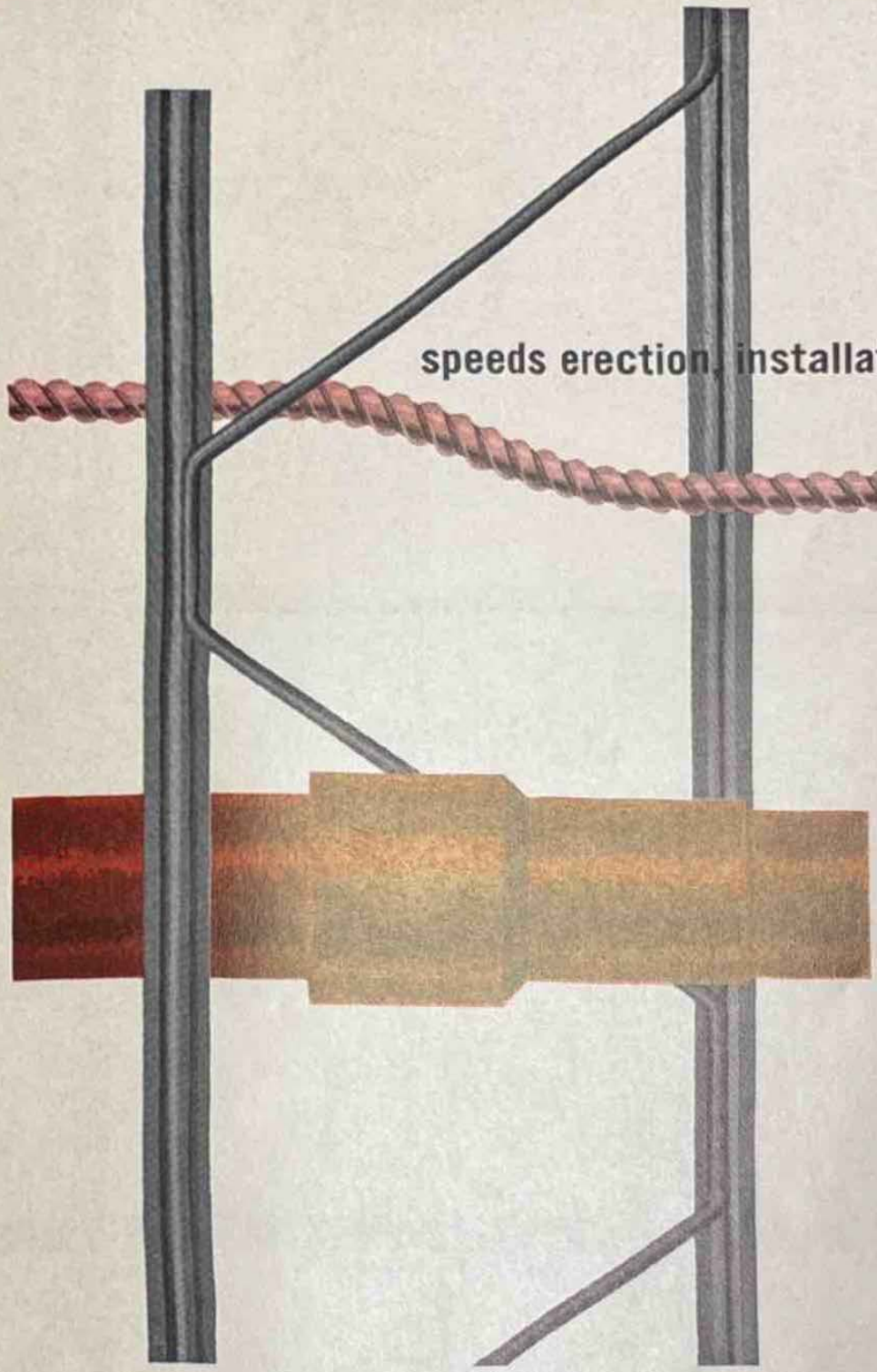
ISLAND PARK ELEMENTARY SCHOOL on Mercer Island, Wash., will be of steel frame and concrete block wall construction. Twelve-classroom plant will have 27,500 sq. ft., acoustical treated suspended ceilings in corridors. Architects: Bassetti & Morse.



DISTRIBUTION CENTER AND WAREHOUSE being built for General Fireproofing Co. in San Luis Obispo, Calif., will have removable tilt-up panels and fluted steel in red, white and navy blue color scheme. Inside garden in lobby area will be enclosed by glass on three sides, with back wall of red mosaic. Architects-engineers: Albert C. Martin & Associates.

FIRST BUILDING to get underway in master plan for civic center in Eugene, Ore. (PA&B for March 1955) will be nearly square county courthouse, just north of existing structure. When estimated $2 million project is completed, old courthouse will be razed to make ready for plaza, including public meeting hall. Architects: Wilmsen & Endicott.





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speeds erection, installation of pipe and conduit

This time-saving and cost-cutting steel stud design was pioneered and perfected by Soulé. It features wide web openings for faster installation of pipe and conduit. The Soulé design also makes the stud easier to handle on the job—hand cutting is faster, speeding erection. Soulé steel stud is available in 2″, 2¼″, 3¼″, 4″, and 6″ widths. Call your nearest Soulé office for complete specifications and details.

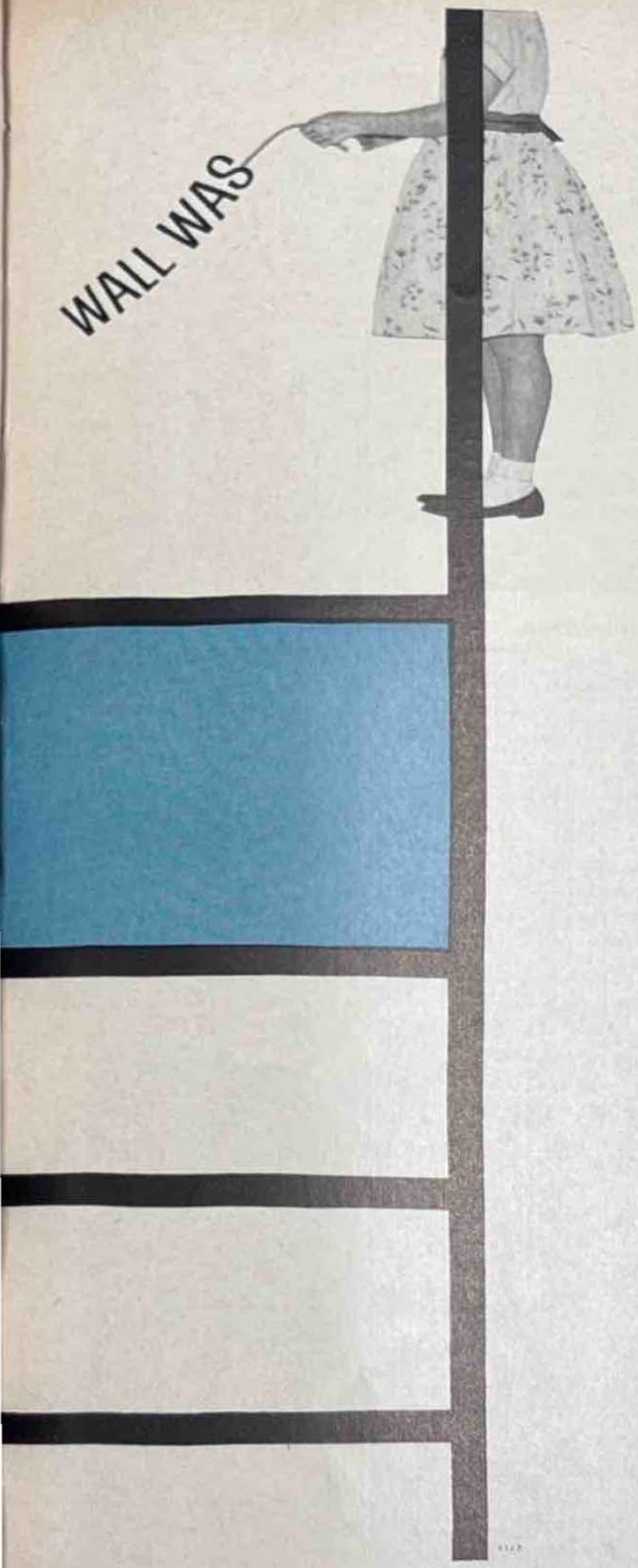
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San Diego 1975 Fifth Avenue, BEImont 2-1071
Portland 2630 N.W. St. Helens Road, CApitol 3-5154
Seattle 4100 West Marginal Way, HOlly 3600
Spokane East 41 Gray Ave., Riverside 7-8063
Phoenix 2026 South 11th Avenue, ALpine 3-3178
Salt Lake City 220 Greyhound Bldg., EMpire 3-7728


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Portland 2630 N.W. St. Helens Road, CApitol 3-5154
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

April hits $232 million, 9% increase over same month in '56

FOR THE FIRST TIME THIS YEAR the monthly building volume for the five western states rose above last year, halting the downward trend of the first three months.

The April dollar volume is $232,570,474, an increase of 9% over the total for April 1956. This compares with a 9% decrease in January, 10% decrease in February and 14% decrease in March. Only two states, however, reported increases. California is up 16% and Montana, 9%. Oregon dropped 24%; Washington, 29%; and Idaho slid to 35% below last year.

Compared to March, the April total is a 5% increase. Washington and Idaho dropped slightly, while the other three states showed fair increases.

While the first three months of 1957 were slow compared to 1956, western cities still were among the leaders in the nation for building permit volume. The six western cities in the top 25 for the first two months of 1957 and their standing compared to the rest of the country were Los Angeles, second (topped only by New York); San Diego, fifth; Seattle, 11th; Long Beach, 15th; San Francisco, 16th; and San Jose, 25th.

The January through April total for the area is $797,125,329, down 6% from last year. Montana is the lone state recording an increase, up 8%. California is down 6%; Oregon, 11%; Washington, 8%; and Idaho, 6%.

Following is a breakdown of building permits issued by several major agencies during April.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
King County	444	($ 4,137,235)	66	($ 287,215)	6	($ 608,500)
Seattle	570	(3,481,614)	184	(1,484,061)	5	(388,600)
Tacoma	115	(544,220)	45	(593,535)	1	(25,000)
Orange County	439	(4,917,157)	50	(387,043)	3	(210,480)
Sacramento Co.	519	(4,258,191)	72	(743,263)	3	(55,972)
Los Angeles Co.	1291	(17,567,326)	432	(3,344,661)	25	(2,810,850)

Building Permit Totals for 116 Western Agencies for April 1957

CALIFORNIA	Apr. 1957	Mar. 1957	Apr. 1956
Alameda County	$ 2,066,050	$ 3,082,343	$ 2,786,750
Anaheim	3,407,609	5,432,565	2,851,141
Bakersfield	710,925	667,936	1,240,204
Burbank	1,198,635	1,002,726	1,955,781
Contra Costa County	2,283,932	1,919,491	4,175,844
Fresno	1,089,452	2,106,950	1,730,381
Fullerton	1,072,597	1,131,910	1,823,007
Glendale	1,561,323	1,053,930	1,519,776
Inglewood	590,745	788,420	836,130
Long Beach	8,859,808	4,368,675	3,800,220
Los Angeles	57,095,189	51,937,409	36,499,805
Los Angeles County	24,664,642	31,184,304	29,879,118
Oakland	2,979,426	2,187,768	3,938,634
Ontario	810,748	269,272	1,321,380
Orange County	5,743,660	8,419,389	11,196,118
Palo Alto	1,390,174	832,072	695,228
Pasadena	2,237,891	1,612,744	1,398,262
Pomona	837,515	1,037,199	351,017
Richmond	729,789	1,136,373	610,545
Riverside	1,066,261	1,546,283	2,796,752
Sacramento	2,824,550	1,531,971	3,384,584
Sacramento County	5,167,602	5,791,174	5,726,688
San Bernardino	1,258,719	1,837,876	1,107,959
San Bernardino County	9,090,746	8,158,364	4,242,468
San Diego	15,046,106	9,750,221	8,588,699
San Diego County	4,403,900	4,168,200	3,615,900
San Francisco	11,654,325	7,254,487	5,515,258
San Jose	9,147,945	3,132,895	5,270,810
San Mateo	862,651	1,023,874	1,269,986
San Mateo County	3,025,157	2,385,619	1,762,611
Santa Ana	962,201	765,318	1,299,994
Santa Monica	1,933,087	1,854,270	1,523,557
Stockton	1,120,111	4,965,782	1,700,413
Sunnyvale	4,417,580	2,405,200	1,052,900
Torrance	1,136,712	1,235,015	4,155,543
West Covina	1,470,965	2,034,755	883,085
TOTAL	$193,918,728	$180,012,780	$162,506,548

OREGON	Apr. 1957	Mar. 1957	Apr. 1956
Albany	$ 209,000	$ 134,650	$ 497,600
Astoria	22,610	37,942	46,321
Baker	188,030	9,275	57,960
Bend	110,921	148,505	134,635
Coos Bay	69,250	141,895	109,843
Corvallis	208,250	98,400	374,415
Eugene	1,091,608	268,820	261,535
Grants Pass	103,500	56,985	134,590
Gresham	49,875	85,500	135,800
Hillsboro	190,550	360,584	95,560
Klamath Falls	171,694	132,146	359,527
LaGrande	8,275	16,440	17,949
Lane County	925,737	718,614	1,461,742
Medford	282,275	173,737	206,713
Multnomah County	1,784,021	1,466,760	2,453,131
North Bend	31,825	25,290	42,788
Oregon City	71,900	24,075	315,360
Pendleton	108,120	173,775	529,719
Portland	4,058,400	3,675,225	5,302,375
Roseburg	15,574	28,161	208,565
Salem	307,620	959,264	429,064
Springfield	190,200	660,820	156,225
The Dalles	21,081	74,765	146,478
TOTAL	$ 10,220,316	$ 9,471,628	$ 13,477,895

WASHINGTON	Apr. 1957	Mar. 1957	Apr. 1956
Aberdeen	$ 82,227	$ 123,040	$ 81,327
Anacortes	193,635	80,925	45,670
Auburn	639,254	103,450	40,825
Bellingham	209,054	262,838	562,228
Bremerton	252,120	126,715	265,579
Centralia	55,737	148,434	118,217
Chehalis	150,710	23,552	208,660
Clarkston	43,680	42,881	71,350
Ellensburg	31,855	31,090	116,660
Ephrata	161,075	601,446	288,471
Everett	650,811	329,903	325,627
Kelso	53,500	46,500	45,300
Kennewick	127,760	109,800	74,425
King County	5,084,025	7,649,530	9,131,000
Kirkland	60,000	116,050	67,850
Longview	248,101	142,390	292,166
Moses Lake	71,040	138,838	381,711
Olympia	199,185	196,332	243,562
Pasco	152,410	85,145	73,835
Pierce County	2,238,107	1,260,714	2,307,218
Port Angeles	44,600	39,750	235,196
Puyallup	82,200	82,825	91,580
Ritzville	19,300	36,000	39,700
Seattle	5,462,250	4,087,725	8,339,603
Shelton	40,400	13,350	132,425
Spokane	2,196,210	2,870,533	2,683,555
Spokane County	2,266,294	2,086,179	1,760,980
Sumner	14,500	2,200	40,680
Tacoma	1,360,975	2,661,299	1,720,856
Vancouver	638,611	409,542	733,695
Walla Walla	73,780	184,435	215,515
Wenatchee	189,106	263,030	1,648,641
Yakima	302,880	962,788	539,540
TOTAL	$ 23,395,392	$ 25,319,229	$ 32,948,697

MONTANA	Apr. 1957	Mar. 1957	Apr. 1956
Billings	$ 685,100	$ 806,500	$ 580,400
Bozeman	105,500	44,000	121,000
Butte	79,035	122,121	166,115
Glasgow	20,178	11,450	80,124
Glendive	45,500	38,800	111,627
Great Falls	1,082,007	1,022,437	472,720
Helena	454,010	313,265	318,290
Kalispell	371,275	61,674	205,331
Lewistown	32,100	8,000	59,250
Livingston	69,340	36,860	41,270
Miles City	24,550	56,415	20,934
Missoula	183,912	49,700	260,710
TOTAL	$ 3,152,507	$ 2,571,622	$ 2,437,697

IDAHO	Apr. 1957	Mar. 1957	Apr. 1956
Boise	$ 399,698	$ 354,031	$ 442,962
Caldwell	61,300	67,155	103,715
Coeur d'Alene	87,059	90,700	621,750
Idaho Falls	536,200	775,990	572,230
Jerome	29,625	40,350	310,150
Lewiston	207,339	427,275	202,932
Nampa	122,050	112,950	101,125
Payette	20,950	2,975	5,900
Pocatello	229,175	296,346	141,841
Sandpoint	5,200	750	46,150
St. Maries	35,000	13,500	41,500
Twin Falls	149,935	309,875	324,310
TOTAL	$ 1,883,531	$ 2,482,897	$ 2,913,195
GRAND TOTAL	$232,570,474	$219,858,156	$214,276,671

Vertical housing: back to the city core

Phoenix co-op is prototype for $60 million program

A $3 million 14-story luxury cooperative building in downtown Phoenix is particularly noteworthy because 1) more than half of 60 apartments were sold before ground was broken and two-thirds before the roof was put on and 2) it is spearheading a proposed $60 million plan to build 20 similar projects in 20 cities across the land.

The families who have made down payments in the neighborhood of $20,000 each and are scheduled to move in during June feel that the Phoenix Towers is an answer for those who want to combine the privacy and space of a house with the carefree convenience and central location of a city apartment. Chicago architect Ralph C. Harris describes his design as "a collection of modern air conditioned ranch homes, grouped together in a vertical plane."

Sponsors of the project are Del E. Webb, head of the Phoenix construction firm bearing his name and co-owner of the New York Yankees; Arnold M. Johnson, vice chairman of Automatic Canteen Company of America and owner of the Kansas City Athletics; Ralph W. Applegate, Chicago realtor and head of Casualty Mutual Insurance Co.; and J. Arthur Friedlund, Chicago attorney and secretary-general counsel for the New York Yankees.

Architectural features

Applegate says that the buildings in the expanded $60 million program will follow principles used in planning the Phoenix Towers, with each cooperative taking its influence from local scenic and climatic conditions.

The Phoenix project is the tallest and largest residential structure ever built in Arizona, consisting of four wings to take advantage of outdoor living possibilities and to assure maximum views of surrounding mountains. Its construction marks the transition in the city from strictly horizontal growth out and into the valley to a beginning in the vertical plane.

Each floor landing is open to the outside and residents do not completely enter the building proper until they turn their latchkey in their own front door.

Apartments consist of 5 and 5½ rooms with two bedrooms (1,210 sq. ft. and 1,809 sq. ft.) or 6½ rooms with three bedrooms (2,357 sq. ft.). Each unit has a balcony terrace opening off the dining area.

Financial features

Applegate explains that each structure in the overall plan would cost about $3 million, following a pattern set by the Phoenix Towers. "The entire project, if carried to its completion, would total more than 2,000 apartment homes, ranging from $32,000 to $61,000. A preliminary study made by the sponsors revealed a market exists in smaller cities in every section of the country," he continues.

"It is such smaller cities as Indianapolis, Tulsa, Atlanta, Palm Beach and Dallas, where the benefits of cooperative apartment ownership are not yet available but where a demand has recently begun to exist, that we are considering building to take advantage of this market."

In addition to the convenience of living close to centers of business and social activity, tax advantages possible through cooperative financing are another incentive for such a purchase, Applegate points out.

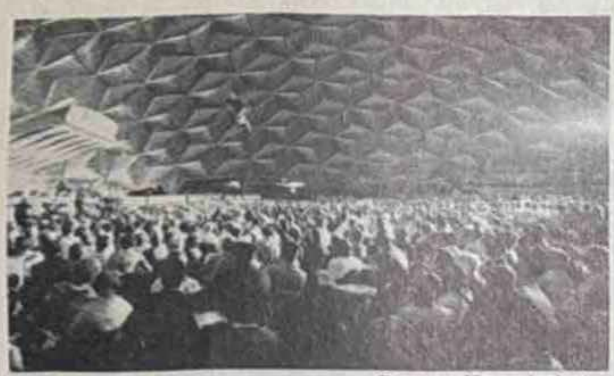
"Our policy, chosen from several possibilities, is based on strict compliance with federal regulations. A 'cooperative corporation' as defined by the Internal Revenue Act, assures apartment owners of tax deductions of mortgage interest and real estate taxes, which will amount to considerably more than 50% of their monthly payments."

News continued on p. 42



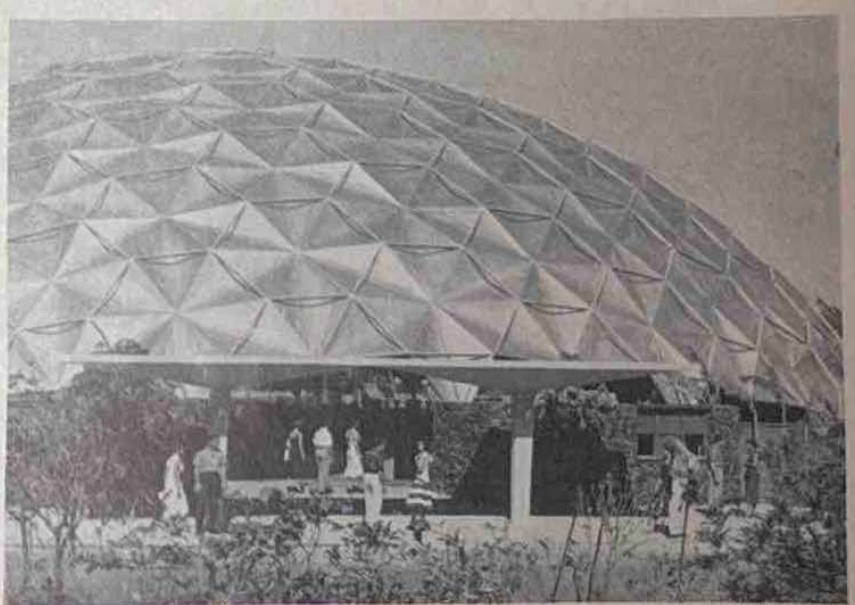
FIRST COOPERATIVE apartment building in $60 million, 20-city project is Phoenix Towers. Situated on three-acre site, it has swimming pool and putting green; first underground residential garage in Southwest; shuffleboard courts; large roof terrace atop 14th floor.

Much publicized aluminum dome in Honolulu gets first public use at concert



Camera Hawaii photos

CAPACITY OPENING NIGHT AUDIENCE of 2,000 enjoy Honolulu Symphony Orchestra in aluminum stressed-skin dome at Hawaiian Village Hotel. (For construction details see PA&B for March 1957.) Concert marked first public use of dome, designed by Kaiser Aluminum and Chemical Corp. Acoustical material was applied to only one-third of interior surface and was placed directly on panels, retaining their geometric pattern. Bolt, Beranek & Newman, Cambridge, Mass., were acoustical consultants.



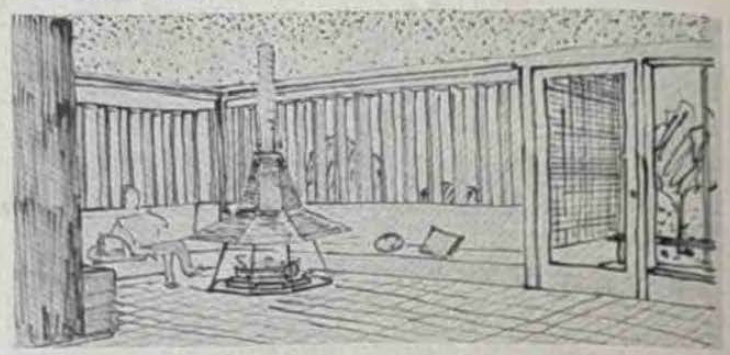


WESTMINSTER PRESBYTERIAN CHURCH, Eugene, sketch by architect K. E. Richardson of Stewart & Richardson.



LIBRARY HALL ENTRANCE, New Vancouver (Wash.) High School, sketch by architect K. E. Richardson of Stewart & Richardson.

FARM HOME, Creswell, Ore., sketch by architect H. H. Waechter.



ARCHITECTURE--an ART

by H. H. WAECHTER, AIA

An address delivered in connection with an exhibition of renderings, sketches and models, sponsored by the Eugene Art Center last November

IN THIS COUNTRY we place much emphasis on our constitutional rights to govern ourselves, to provide for the general welfare of the nation and to develop our cultural pursuits. We are filled with zealous prayer that this social background will give the nourishing soil from which the full life will sprout. We entertain the vision of a social and physical environment which will allow us to give to such full life proper space and a frame of reference.

This concept has been boosted and disturbed simultaneously by the imposing forces of technological development. Increasing specialization within the professions has produced a great number of often influential people who are highly skilled in a very limited field while losing sight of all other fields, all of which should be interrelated.

In addition, the populace as a whole has been subjected to an overemphasis of the spoken and printed word. Since the Renaissance this development led gradually to the crippling of visual expression of the individual. This happened at a time when the skill of professional designers was continually developed into their routine virtuosity of today.

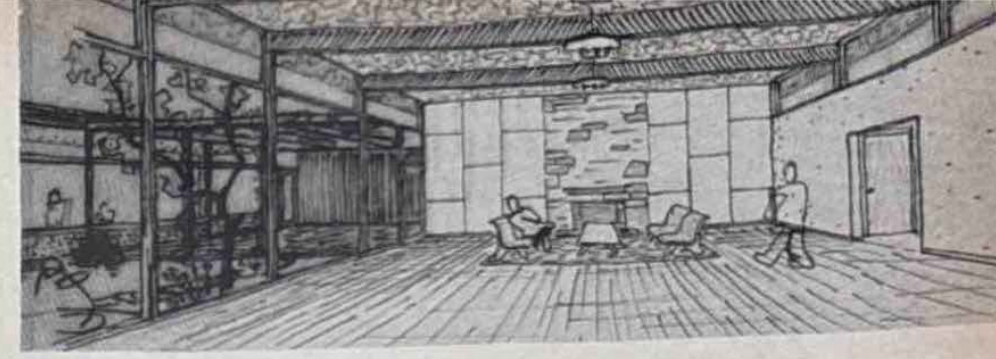
What has suffered most in this development is the individual's ability to communicate freely by visual means and at times to participate in creative processes. While every person is learning how to read and write, which opens to him avenues to literature and the sciences, the language of vision is neglected to such a degree that even simple communication is made difficult. This sort of illiteracy is, of course, standing in the way of creating the kind of environment which we need for a full life.

While we expect from the arts to make our environment beautiful and inspiring for such full life, we have to beware of thoughtless expediency and of trivial or frivolous architectural treatment which may lead us to the false impression of progress in design.

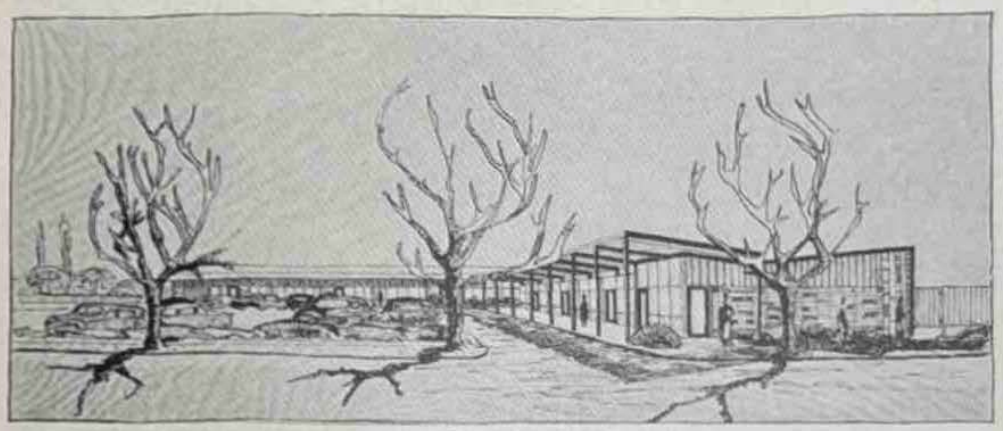
Naturally, if many of us are afflicted by undernourishment of visual impulses, our powers of visual communication and discernment must suffer.

Architecture has been considered to be the mother of the arts through the ages. Being an all-embracing art and giving shelter to all the other arts, architecture has been of great significance for the shaping of our physical environment, particularly if the art of building became an activity within the realm of the fine arts.

For this reason the architect is not a specialist in the narrow sense of the word and can never be one as long as he is concerned with the comprehensiveness of every building and planning problem. Art in architecture has no quotation marks, is nothing added for insignificant embellishment and most certainly is not a luxury. Primarily it is the way in which the artist is handling and assembling the sticks and stones to fuse them organically into space, in order to create beautiful space and to make every function within a building well operating. Art is actually something enormously practical. It is at the same time the essence and the expression of the things we are doing in a full life. It is significant if we can make a statement of our philosophy of life and all its practical functions. Art is a function of building and cannot be separated from other functions.



SYNAGOGUE AUDITORIUM INTERIOR, Eugene, sketch by architect H. H. Waechter.



MEDICAL-DENTAL BUILDING, Eugene, sketch by architect Phil Gilmore.

Speaking to you about architecture as an art imposes on me severe limitations for various reasons. In the first place, our subject is so vast and complicated in nature that it would be rather confusing than illuminating if I would make an attempt to illustrate my broad statements by giving detailed examples. I do not propose to expound all the various aspects of architectural practice within the short time allotted to me. I am very well aware that architecture today is practiced not only as a profession and an art but also as a business. I am also aware that the architect has to be many persons wrapped into one, such as an engineer, a craftsman, a psychologist, a sociologist, a technical and executive organizer, a public relations man, etc.

All those characteristics are important and architects have pronounced talents in some of these fields but not necessarily in all of them. They usually can be outdone in any of these fields by specialists. Yet, architects have to understand the problems involved in all those fields without which they could not coordinate the work of the specialists and weld all information together into one design.

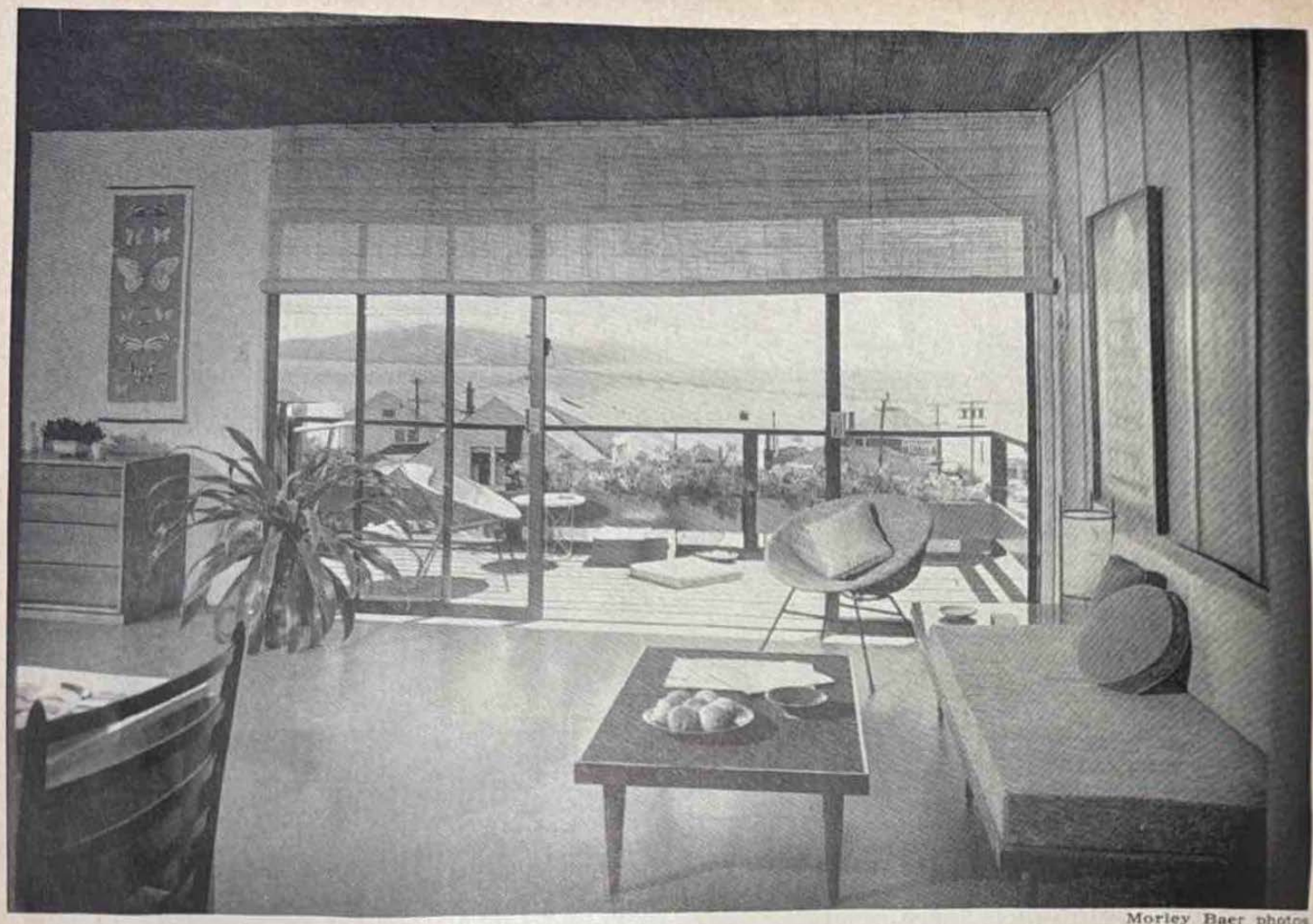
There is, however, one quality, which is genuine with the architect, and that is his talent for design, in planning, in space organization, in handling form and color and in solving the problems of the building program to assure beautiful functioning. Nobody can relieve the architect from his leadership in design. It takes an artist to understand fully the problems of functional building. Technical information is dead without the vitalizing effect of imagination. If a client is looking for this design qualification, he is protecting himself from the commercialism of cliches and the riddle of styles and decorations.

At present we are in great danger that the personal service of the architect and thus architecture itself will be obscured and possibly obliterated by our seeming inability to grasp the problems posed by industrialization. We have not yet learned to master the machine. Building always has been teamwork among all concerned. The designer has to be the leading mind within this team because of his job to make a whole out of parts.

The simple relationship between client, architect and builder is being vastly expanded in the case of anything larger than a house or small business structure. Industry is supplying us with more and more prefabricated and predesigned building parts which can be ordered and assembled by unimaginative people. We are perilously near the condition pictured in the cartoon where the customer is directed by the floor manager to a machine, the "architector," which looks perhaps somewhat like a giant IBM electric brain. The customer voices his requirements and has only to receive his set of plans at the other end of the "architector."

In this exhibition you see drawings, sketches, renderings, models and photographs, which have been assembled for you against a background of thinking, which I tried to sketch in a few bold and, I am sure, insufficient strokes. We in the Eugene Art Center are interested not only in buildings as artistic expressions but also in the graphic efforts of the architect. To be sure, the architect is producing his work on paper not for the sake of drawing; the building itself is the desired product.

The architect's talent to draw and paint should not be confused with his talent to design a building. In fact, the world has seen a few outstanding architects who were no brilliant draftsmen. A certain amount of drawing skill, however, is absolutely necessary if communication between architect, builder and client shall take place. Also, the architect needs drawing to study the problems involved and to adjust his ideas. Sketches are the by-product of the developmental thinking of the architect. He thus evolves on paper one idea which is followed by another. With regard to some of the projects shown, which will never be executed, the sketches remain as the only tangibles and may help stimulate interest in the graphic expression of architectural ideas.



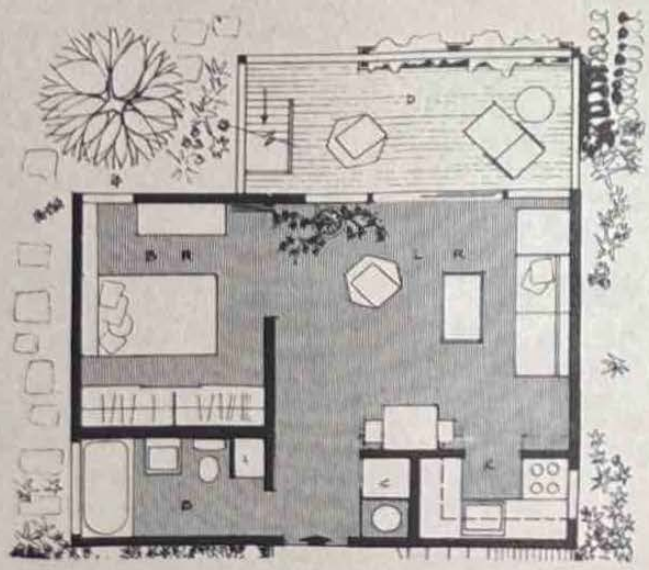
Morley Baer photos

Studio Apartments
Sausalito, California

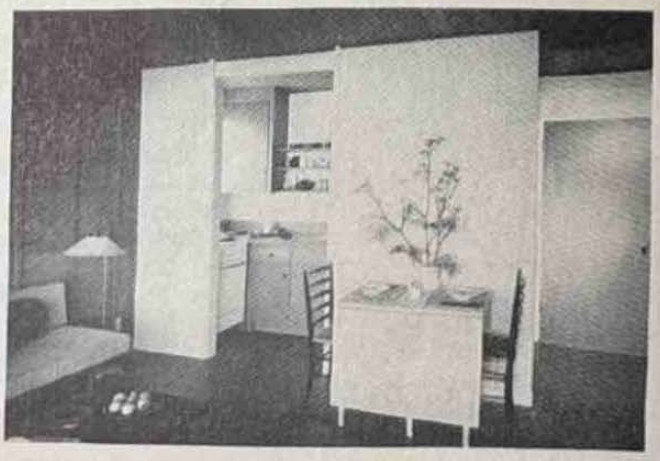
CAMPBELL & WONG, Architects

W. GILBERT, Structural Engineer

WILSON & WEDEKIND, General Contractors



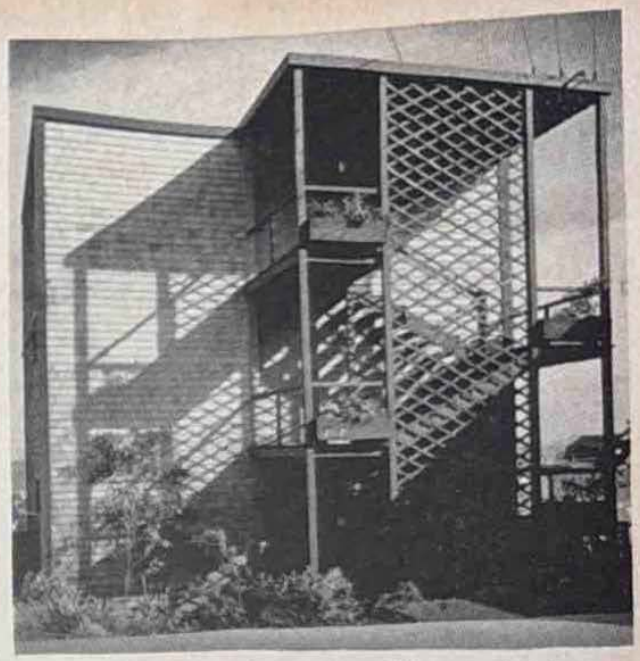
APARTMENTS TAKE ADVANTAGE of view and sun to rear; sliding glass doors open onto deck for outdoor living. Tiny kitchen is marvel of efficiency.



OUTLINE SPECIFICATIONS

Type of Construction: Wood frame.
Exterior Walls: Cedar shingles with stained redwood trim and steel sliding.
Floors: Kencork asphalt tile; concrete, lower only.
Interior Walls: Sheetrock and Plyscord plywood with wood trim.
Ceilings: Sheetrock and Celotex; 2x6 exposed fir, top only.
Total Area: 1,296 sq. ft.
Total Cost: $23,420 (complete and furnished).
Cost per Square Foot: $11.
Date of Completion: July 1955.

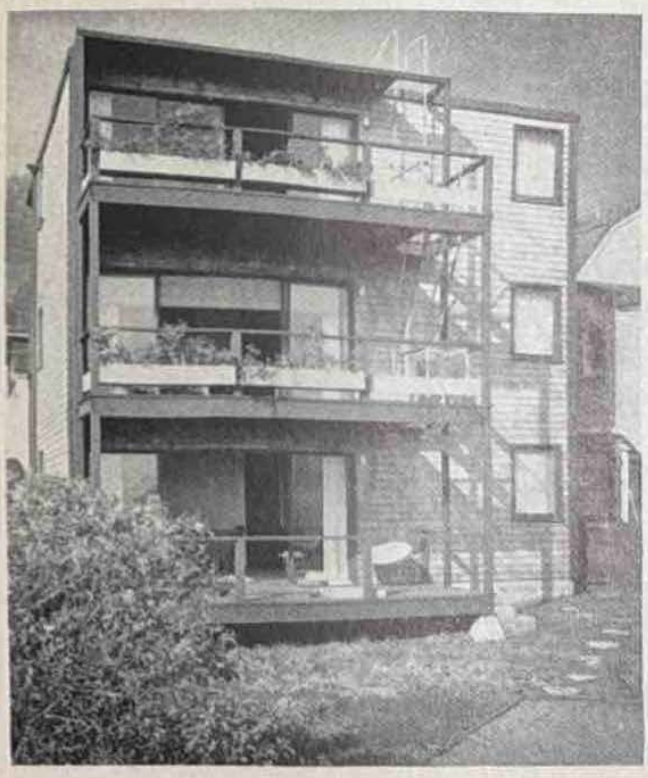
"The jurors were so careful in appraising the solving of problems in the face of reality. Everyone was very much taken by this project. Particularly after reading the explanation by the architects, as we did with all entries, we were in absolute accordance on this award. The tremendous low cost of the budget was carefully considered by architects."—Pietro Belluschi.



ENTRANCE is via wood stairway artfully concealed by inexpensive latticework.

Three-unit project at $11 per square foot

FRAME BOX STRUCTURE is almost Oriental in its classic simplicity; redwood trim accents cedar shingles.

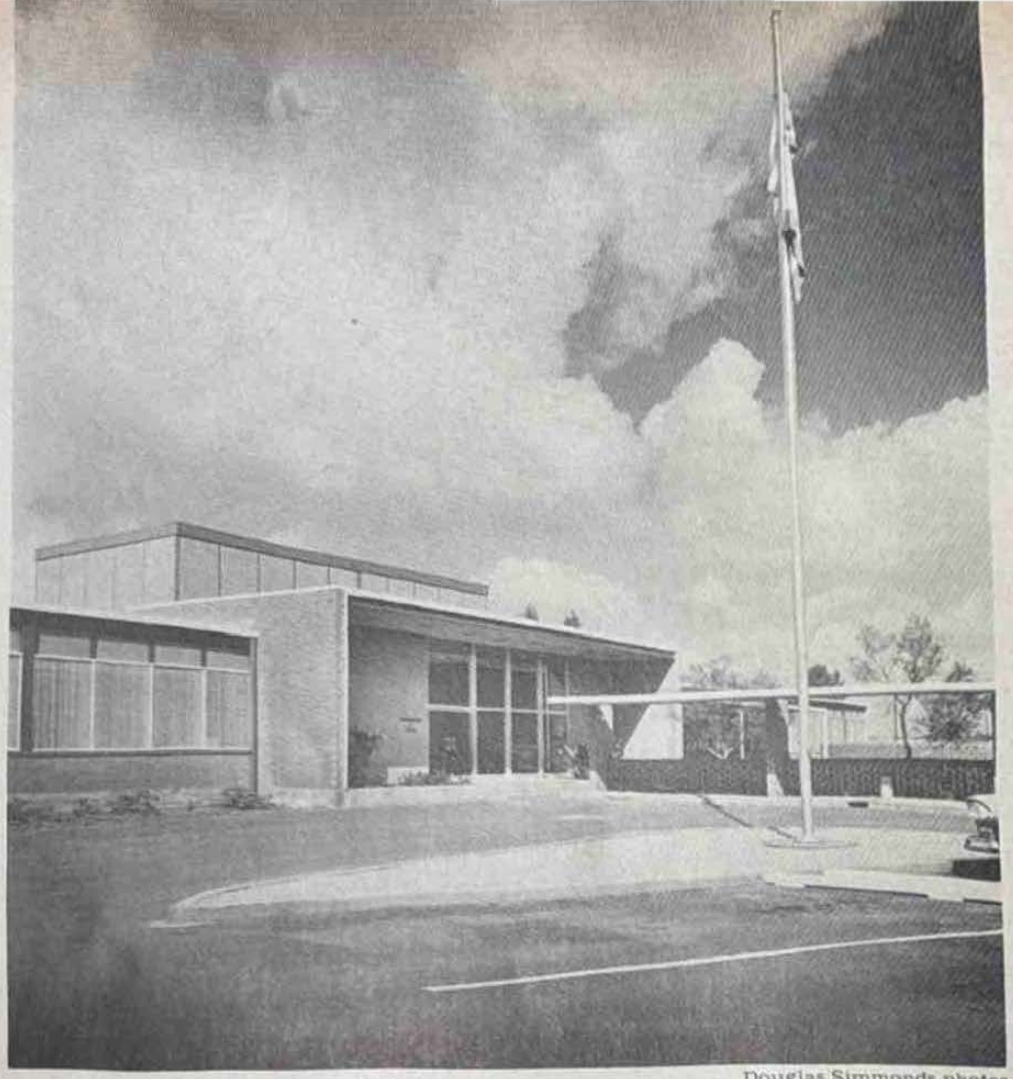


"It is commonly assumed that large budgets make for good design and scanty budgets produce mediocre results. This apartment building is more superior because of its low budget."—James M. Fitch.

CITED for an Award of Honor in the recent northern California AIA competition, this three-unit structure totaling 1,296 sq. ft. was built at $11 per square foot. In clarifying that figure, the architects point out that the building—completed nearly two years ago—is on a level lot with a slab first floor and could not be duplicated for the same price today. But the $11 figure is all the more remarkable when one analyzes the cost breakdown: building only, $13,200; architects' fee, $1,320; lot, $3,500; parking and garden, $650; and furnishings, $4,750.

To achieve such economy, the architects designed a simple frame box set on a reinforced foundation within the measurements of 18x24 ft. The apartments are small, with only 432 sq. ft. on each floor. The units, however, are compact and efficient and take full advantage of the flat site with a view and sun to the rear.

The architects chose materials that would be both economical and handsome, starting with a cedar shingle exterior, accented by stained redwood trim, to provide texture and color and little maintenance. Interiors are of gypsum formboard and driftwood gray plywood with wood trim. Shoji doors conceal a closet, whose wall separates the sleeping area from the kitchen and dining spot.



Douglas Simmonds photos

MAIN ENTRANCE is shown above. Project has 90,000 sq. ft. divided among three buildings as seen below—laboratory at right, office building at left and manufacturing plant in rear. Reddish brown brick, two shades of teal blue and sand cream comprise color scheme.

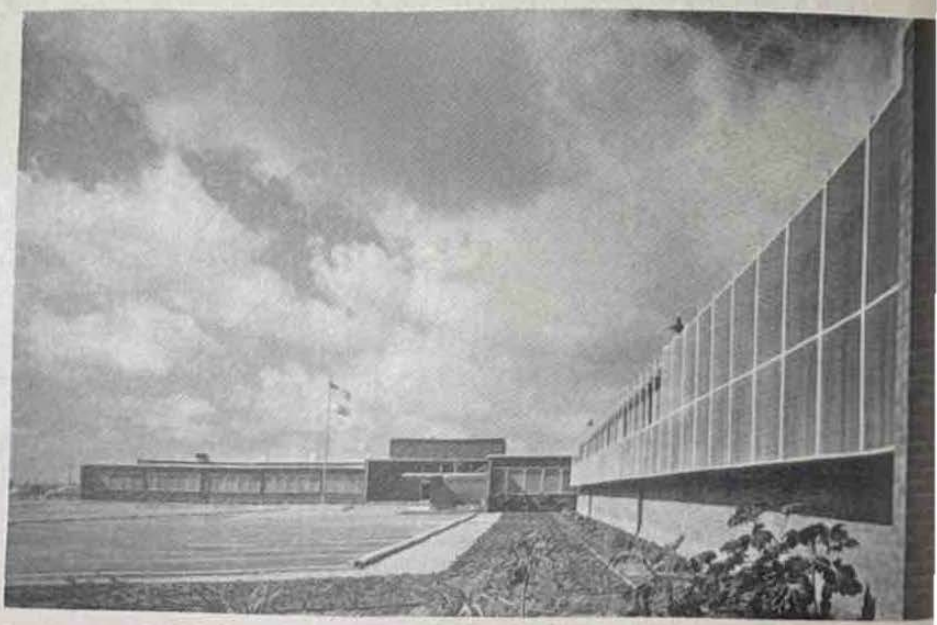
BJ Electronics, Borg-Warner Corp. Plant, Santa Ana, California

JOHN KEWELL & ASSOCIATES
Architects-Engineers

WILLIAM M. TAGGERT
Structural Engineer

KENNGOTT-BROSSMER
Interior Designers

C. L. PECK
General Contractor



Industrial flexibility takes on a new meaning

PRINCIPAL DESIGN AIM in developing plans for this three-building project was to provide flexible, functional space for a growing electronics business. In accomplishing this end, the architects have made a substantial contribution to industrial architecture: they have produced continuity and esthetic appeal in an area where it is sadly lacking.

The facility offers not only flexible use of the client's present space but correlated plans for expansion. The buildings are placed on the site so that each can grow as future needs dictate—the manufacturing plant to the west, the laboratory to the east, the office building to the north and south.

The west wall of the plant has a 75% removable wall consisting of steel trusses to carry the roof and even the steel columns are temporary. The steel sash is bolted so it can be taken out easily, while below the sill wall is an aluminum sandwich construction composed of two layers of ribbed aluminum sheathing with 1-in. fiberglass insulation between.

The same aluminum construction is found in the laboratory's east wall. And in the office building a full width door at each end assures continuance of the corridor into any additions to the north and south.

Because of the fluid nature of the electronics field, flexibility of use in terms of present facilities was another design criterion. The laboratory ceiling can be adjusted to one of three levels—9, 10 or 14 ft.—without any alteration in construction of the roof, walls or windows or of principal mechanical equipment. Sash and lighting fixtures were especially designed to permit these changes with the greatest possible economy.

Main services coming into the laboratory—water, gas, compressed air and electricity—are laid out with outlets 5 ft. on center to enable equipment to be placed at will. Lighting fixtures hang from conduits which support them and then can be plugged in at any 5-ft. intervals and adjusted for the ceiling height in use.

Only permanent installation on the production floor of the plant are the washrooms. All offices immediately concerned with production are located in the neck connecting the office building with the plant.

This same concept of flexible use of space also prompted the design of interior partitions. Because of the many different types required in this project, the chief advantage of shop-fabricated units was lost. The partitions used in all three buildings, developed by the architects' office some years ago, are based on a 4-ft. module, site-fabricated, demountable and consequently 90% salvageable, making them adaptable to any length and layout at a low cost.

Steel frames in 40x60-ft. bays support the manufacturing plant. Primary and secondary framing are combined to allow placement of columns 40 ft. apart for the same cost as a conventional system with columns 20 ft. apart. Exterior walls are precaste concrete tilt-up, with the exception of the removable west wall.

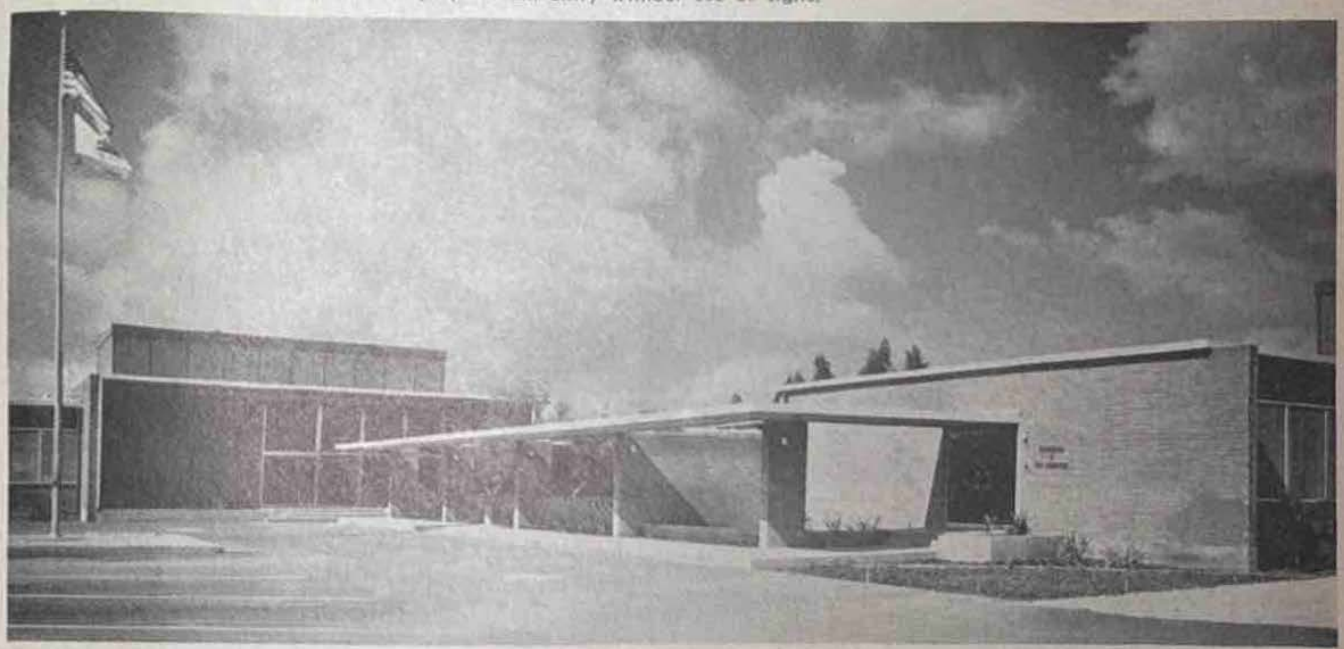
Laboratory and office structures employ a clear span steel frame, with brick exterior walls. Suspended ceilings are covered with acoustical tile.

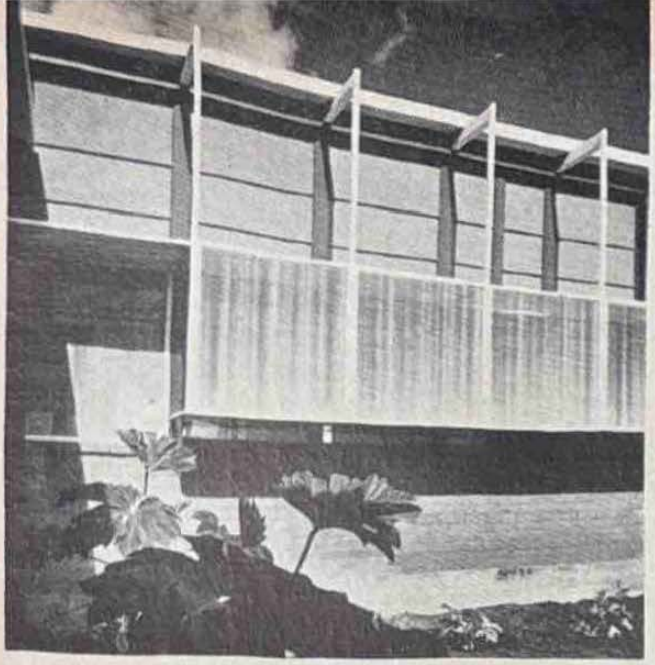
Company executives desired to face both the office and the laboratory entrance onto the parking lot, to direct all visitors to the office building without the use of signs and to connect the entrances with a covered walk. The architects scaled down the laboratory entrance and located it under the covered walk roof. In addition, the steel decking was repeated as a partial screen for a garden area, defining the approach to the office doors.

For security reasons it was desired to funnel as much traffic as possible through one gate. The principal road through the property starts at the main gate, bisects the site and turns to meet the only other street that leads to the property on the north. The site permits all personnel and materials to feed off the main road where a guardhouse is found.

The three buildings are located at the center of the

EXPOSED STEEL DECKING of covered walk connects buildings. By designing entrance to laboratory in smaller scale than that of office building, visitors are directed to proper main entry without use of signs.





BRONZE LOUVERED SCREENS for sun control are adjustable, depending on which ceiling height is used in laboratory so that clear glass always can be covered. Suspended by outriggers, installation can be changed as needed without any structural alterations.

OUTLINE SPECIFICATIONS

Type of Construction: Steel frame in 40x60-ft. bays.

Exterior Walls: Brick, laboratory and office buildings; precast concrete tilt-up, manufacturing plant; bolted steel sash and aluminum sandwich construction with 1-in. fiberglass insulation between layers of sheathing, east wal of laboratory and west wall of plant.

Interior Partitions: Site-fabricated, non-bearing and demountable, based on 4-ft. module.

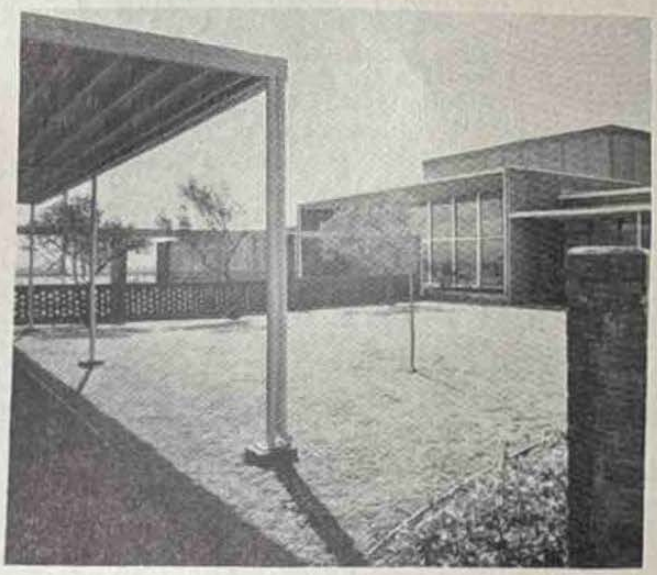
Ceilings: Suspended, covered with acoustical tile and movable to one of three heights in laboratory and offices.

Total Area: 90,000 sq. ft. in three buildings.

INDUSTRIAL PLANT

site, with parking around the entire perimeter. Production personnel parking is in a non-security area at both ends of the site, with laboratory and research workers parking adjacent to their building in a security zone. Production personnel then are checked at a guarded gate before entering the manufacturing plant.

The employment office can be reached from the non-security parking area, allowing applicants to go directly to the personnel office without procuring a pass or going through the guarded gate. The laboratory has a two-stage security setup: the first wing containing all services, stockrooms, washrooms and conference rooms; the second, its own shipping and receiving, its own stockrooms, forming a completely separate security zone.



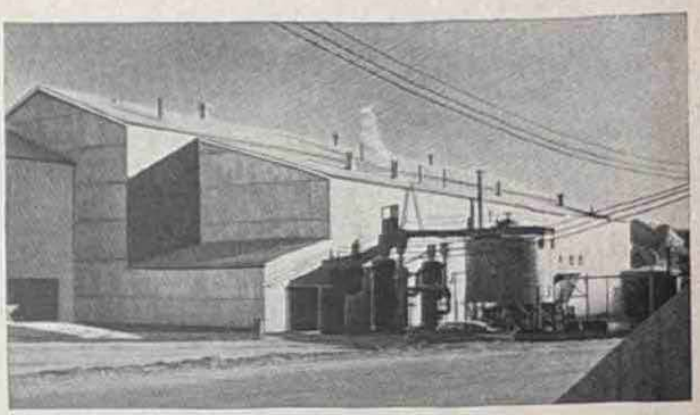
GARDEN AREA is visible from lobby of office building, provides pleasant outlook for administration and engineers' offices. Ceiling in laboratory can be adjusted to one of three heights—9, 10 or 14 ft.—without any change in lighting, mechanical equipment or basic structure. Non-bearing partitions also are movable, are based on 4-ft. module.



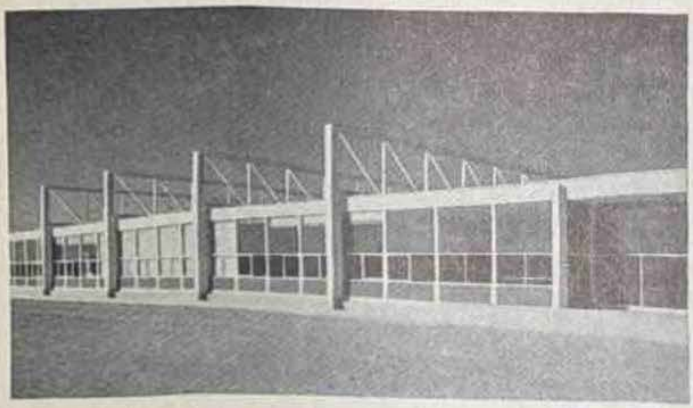
They're building with steel because it's permanent, economical, easy-to-maintain and fire-safe



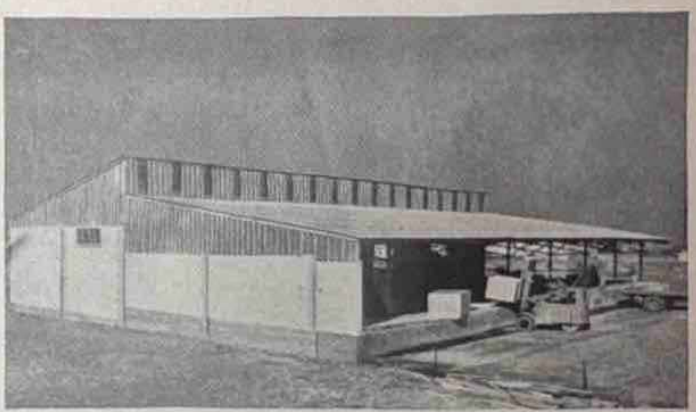
FIRE PROTECTION was the number one reason this Oregon grain storage mill was built with steel. The owner lost his first mill to fire, so vowing it would never happen again, he specified USS Corrugated Roofing and Siding Sheets and USS Floor Plate for his new building. This also lowered his insurance costs.



NO COSTLY MAINTENANCE PROBLEM HERE: This new Uranium Mill on the Colorado Plateau is frequently attacked by sand and snow storms. For maximum protection and minimum maintenance, steel roofing and siding was the obvious answer for these buildings. Steel framework leaves interiors open and flexible.



MANY COST-SAVING POSSIBILITIES result from the use of steel framing and wall panels. Curtain walls, for example, are faster to erect and provide more usable floor space. Steel framing eliminates bearing walls and reduces amount of framing. The school pictured above features an all-welded frame which helped make it Utah's least expensive (per square foot) school.



THE STABILITY of rigid frame construction provides a greater capacity to withstand winds, snow, cranes and "bumps" from materials handling equipment. Steel spans also mean more clear working space. This is just what Hansen Lime & Stucco wanted for their new Salt Lake City warehouse and shipping shed . . . so they specified steel framing, and USS StormSeal roofing and siding.

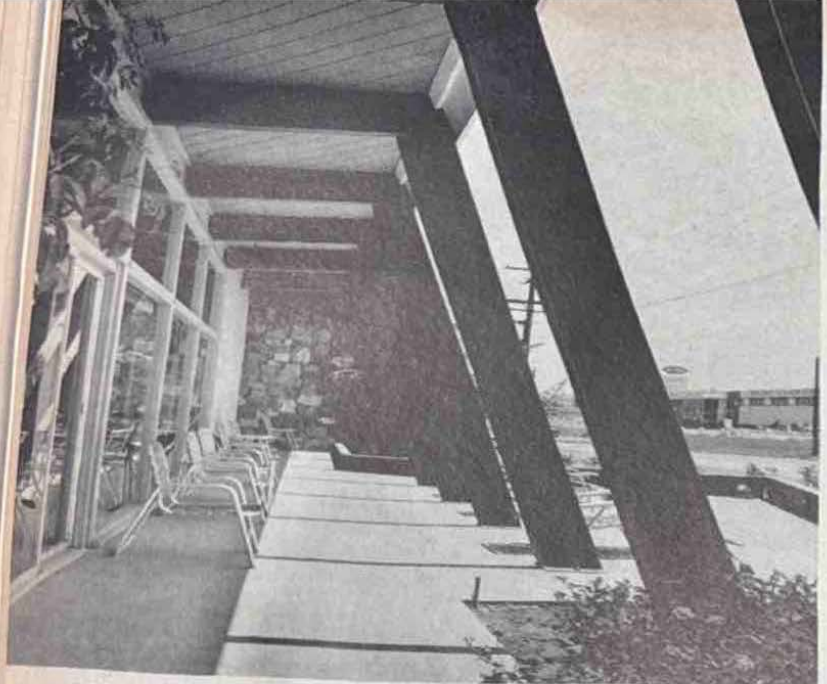
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PROJECT ROUNDUP



TWELVE STRUCTURAL I-BEAMS are supporting framework of building. Left exposed and painted dark brown, they form architectural motif.

Trailer court gets a lobby

MEAD TRAILER COURT HEADQUARTERS, MISSION VALLEY, CALIF.: A somewhat unusual project not far from San Diego is a lobby and main office building particularly designed for trailer court residents. The single-story, no basement structure serves as a recreational center where the trailerites, mainly tourists, can relax or make new friends. The court has a capacity of 160 trailers and the owner is making provisions for 40 more. About 350 trailers of all types and sizes are parked in a typical year.

In addition to a 40x60-ft. lobby area with a huge fireplace, there is a registration desk with mailing conveniences, a private business office, a general business office for trailer sales, a general storage room and restroom and limited kitchen facilities. The architect has made generous use of glass, stucco and field stone in the building, which has exposed steel bents and a butterfly roof of crushed rock. A terrace at the front creates a pleasant entrance, with a sheltered patio at one side. The interior color scheme is dusty rose, brown, turquoise, black and white. The structure was built at a cost of $22,096 for its 1,985 sq. ft. of space, or $11.20 per square foot. Richard George Wheeler, AIA, architect; Doughty Construction Co., general contractor.

MAIN WING IS FACED with limestone and decorated with nine colophons and watermarks of famous printers and typographers, ranging from 15th to 20th century.

Northwest Photographic Illustrators

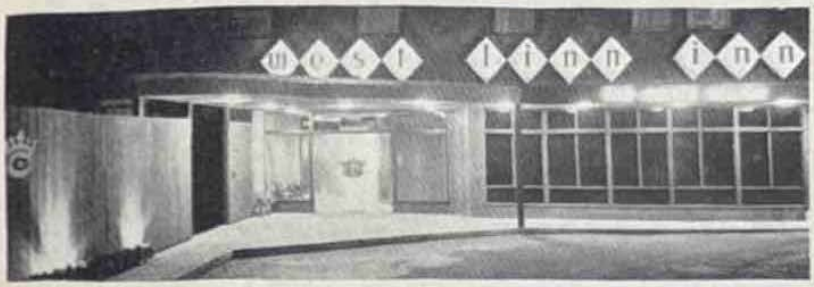


Campus gets a new neighbor

SCHOOL OF JOURNALISM, UNIVERSITY OF OREGON, EUGENE: T-shaped Eric W. Allen Hall, one of the largest journalism education buildings in the nation and one of the few specifically planned for such training, incorporates the original three-story brick structure at the rear of the new scheme. The floor heights had to be adjusted to those of the existing school to which they were connected and it was desirable not to exceed the three stories of the adjacent buildings on either side. The planning was further limited from practically every direction since the new building was to house the university press on the ground floor, partially below grade, and the campus layout provided only one place for delivery of the large paper rolls.

Brick was selected to conform with the original and neighboring structures; however, it was decided to make the new hall of a more contemporary character. To better express its journalistic function, the front is a rectangle of light colored limestone crossed horizontally by the dark lines of strip windows, suggesting the formalized shape and design of the printed page crossed by lines of type. Large windows in the lower story wall afford views of presses and linotype machines; the two upper floors are given to classrooms, library, auditorium, laboratories, etc., and to offices of the student daily newspaper. With new furniture and equipment, the building cost nearly $600,000. Church, Newberry & Roehr, architects; Cooper & Rose, structural engineers; Thomas Taylor, mechanical engineer; Pettingell-Kelley & Co., electrical engineers; J. G. Watts Construction Co., general contractor.

up and down the coast





IDENTIFICATION SIGN is architectural asset to remodeled entry. Dining area has custom-designed furniture and symbolized map of natural wood portraying company holdings in U. S. and Canada of firm which owns hotel; coffee house has murals of sculptured plaster and solid brass.



Remodeling program for $70,000

WEST LINN INN, WEST LINN, ORE.: One of the Pacific Northwest's most successful hotel operations when built in 1919 was not designed for public use and has been owned and operated by a company whose interests are far afield from hotel management. Crown Zellerbach Corp., manufacturer of timber products, has used its hotel in West Linn (and one in Camas, Wash.) to house mill employees, visiting firemen, local residents and only on occasion the traveler in search of a night's lodging.

Today, however, West Linn Inn has a highly professional look as a result of a $70,000 remodeling program. One of its major aims was to define the hotel entry, a feature which had been almost entirely lacking in the original building. The project also called for a new coffee shop, barber shop, restroom and direct entry to the lobby of the inn. All of this has been achieved in a manner which harmonizes with the existing wood frame structure and provides an expression of warmth and intimacy of natural woods and bronze tinted glass.

The driveway now sweeps up to a custom-milled California redwood wall and hotel marquee. The new entry has a rockwood tile ceiling and cork tile floor; the glass entry doors have custom bronze push plates in the form of the Zellerbach emblem. The coffee shop has been finished with warm redwoods and a patterned ceiling for interest.

The stained glass in the windows and interior screens was custom made to obtain a bronze hue. Wall murals depicting forest activities and river boats of sculptured plaster and solid brass were executed by artist Samuel C. Nichols. All of the custom seating in quality caning and natural leather, as well as the hotel identification from roof and entry signs to menus, table mats and china, was done by the designers of the remodeled building. R. K. Grubb & Associates, designers.

Remodeling program for $10,000



Robinson photos

GENUINE REMODELING—altering existing elements without major structural changes—can be a satisfactory, economical solution to a problem area as before and after photos show.

KNIGHTS OF COLUMBUS BUILDING LOBBY, SEATTLE: The object of this remodeling project—$10,058 for construction plus $2,800 for furnishings—was to initiate a program for renovation of the entire building. At the same time the architects were attempting to turn an area which up to that time had been relatively unused into one which would be habitable and inviting to the membership, as well as to the public that would rent the facilities.



Involving about 1,600 sq. ft., the work consisted of renovation of the entrance from the exterior and the complete remodeling of the lobby, including office, cloak room and ladies lounge. Materials used were hardwood paneling, acoustical plaster on all ceilings, asphalt tile flooring and ornamental visual screens combining steel and fiberboard. Johnston-Campanella, architects; Palmer Shops, general contractor.



Julius Shulman photos: above; below, right

THREE PROJECTS by architect Soriano shown on this page include Julius Shulman residence, Los Angeles.

OBSERVATIONS by RAPHAEL S. SORIANO, AIA

IN ARCHITECTURE, among the points of consideration one focuses itself quite brightly: how to arrive at the most useful solution for a particular performance—the most successful architecture for an architect.

What is useful architecture? It is a performing architecture which serves well its occupants from the unified point of view of their total sense experiences. I do not mean the detached usefulness of particular parts; I mean a unified concept achieved through the use of significant relationships, the most natural relationships of every day's activities.

Is this performance achieved by interpreting within the design all of the wishes of the occupant? Wishes which might include not only daily living requirements and color and textural likes and dislikes but also many obscure "feelings" about high and low, straight and curved, warm and cold, etc.? Is this performance achieved by interpreting within the design the architect's own feelings about high and low, straight and curved, warm and cold? By which route will the problem be solved most simply, directly and with the least waste—by arbitrary, subjective thinking or by cognate, objective reasoning?

In arbitrary thinking there will be involved preconceived notions, personal whims, isolated tricks, a series of unrelated parts perhaps sometimes cleverly executed and quite charming texturally or full of color, but unrelated parts cannot be recognized as a concept. They can be of only momentary appeal, as a feather dropped from a bird's wing is texturally, colorfully and structurally appealing but unable to perform alone. In objective reasoning there will be involved constant evaluation and integration of the relations of the constructive elements for performance. The smallest semblance of a personal feeling, trick or whim inflicted upon the work can destroy the natural concept.

From point of analytical observation we find that progress in architecture has come from the architect using his knowledge and sensitivity in relating the newest materials of technological advancement into the simplest possible terms for top performance.

The question will probably be asked at to what is the sensitivity of the architect if it is not a feeling—sensitivity comes from knowledge—, knowing when to remain behind the series of evaluations rather than putting oneself ahead of them. By this is meant, in evaluating the relationships of any architectural solution, each decision, each material in comparison to another at once gives the architect its own intrinsic value. When one violates these natural intrinsic values by imposing upon them personal values, then "feeling" is involved, not "sensitivity."

In summing up we find that the attitude of the client, his or her sensitivity and objectivity, is equally important for a successful end result. Many times the client comes forth with an idea of great value. These ideas when on the plane of objective requirements should be taken seriously as a challenge of integration into the whole. In this case the client has helped to contribute as much to the performance of the project as the architect. This is the way it should be; this is the way to architecture.

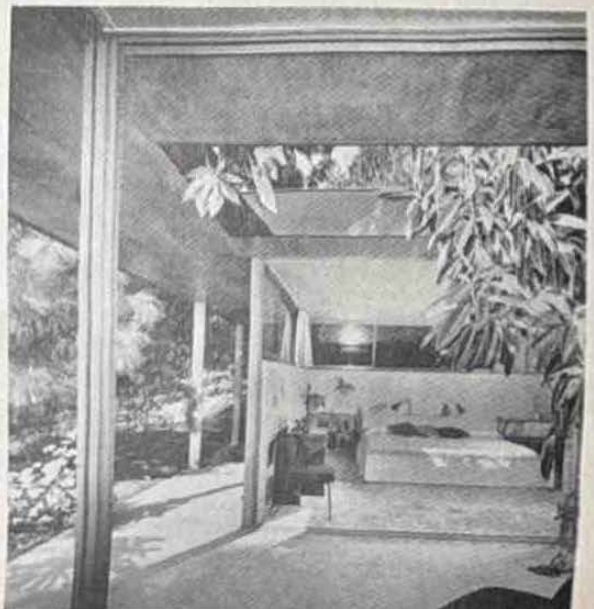
Digest of a public lecture presented at Immaculate Heart College, Los Angeles

RIGHT: Edwin Krause residence, Whittier, Calif.

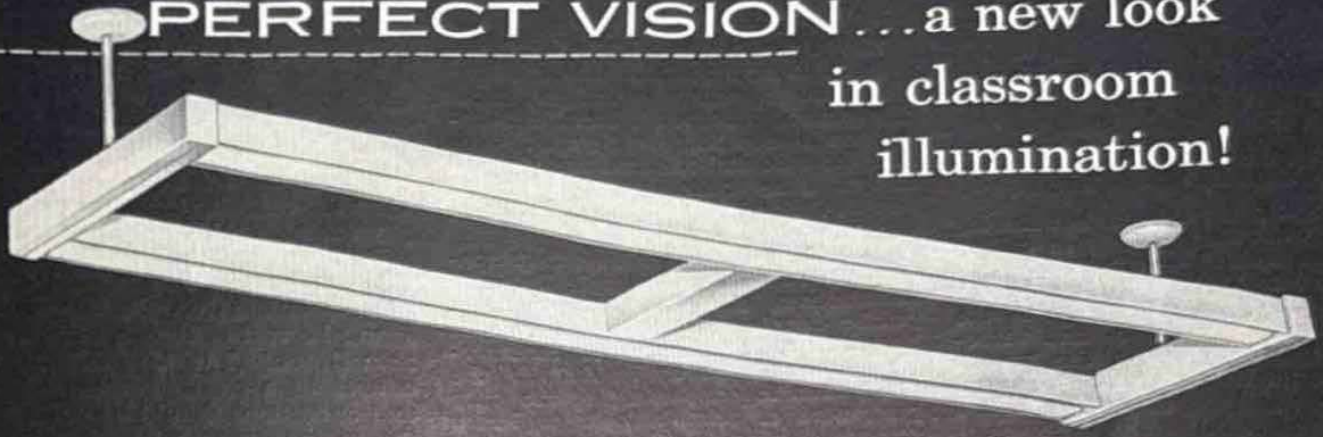
BELOW: Dr. Donovan Cooke residence, Belvedere, Calif.

Elizabeth Soriano

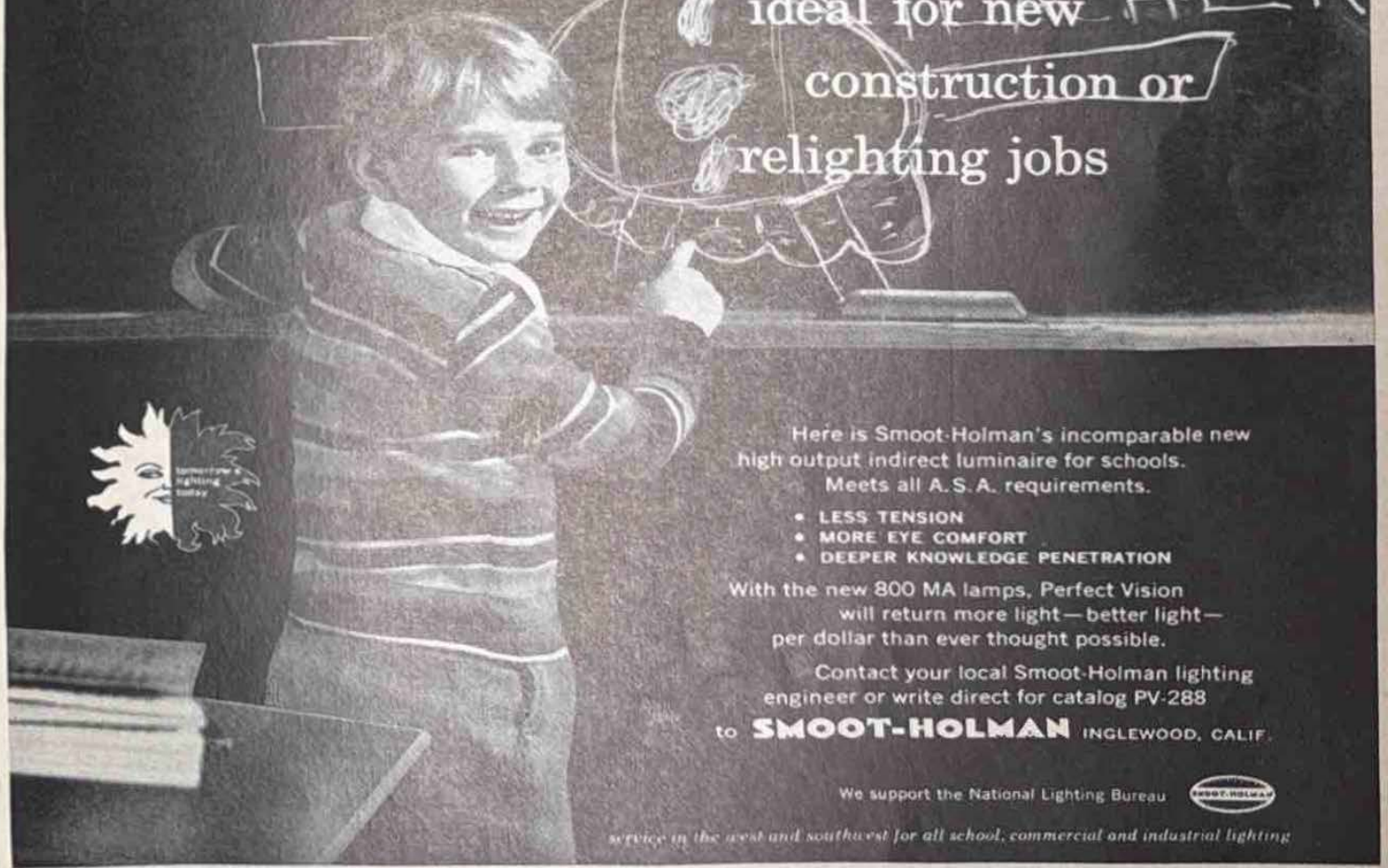




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Home building: some design aspects and related topics

Excerpts from the NAHB convention of general interest

The picture window

Paul Neeland, real estate editor, Boston Globe

(Upon accepting the NAHB's Certificate of Appreciation for excellence in reporting of real estate and home building industry.)

Sociologists have been hammering away at what they delight in calling "suburban slums" — subdivisions — since the late 1890s when trolley car tracks first started heading in the general direction of two- and three-deckers sprouting up in the weeds. Today it's the freeway that leads to a subdivision and the two's and three's have been replaced by single homes.

But the tune played by the sociologists—pseudo and otherwise—is the same. The latest verse is contained in a book just published, "The Crack in the Picture Window," a sweeping indictment of the post-World War II home building industry (to be reviewed in an early issue of PA&B).

"A man in a development has no need," the author claims, "to socialize with the other men in the development, his socializing takes place in the city where he works." Therefore, "development men" are apt to nod to one another or borrow things from one another and their relationships in borrowing hammers, say, are no deeper than the relationships you have with the man who comes to fix the plumbing in a city apartment.

"Development women," the book goes on to say, "socialize because they can't escape one another and most of their acquaintance is based on service needs—the borrowed cup of sugar and the spoonful of cornstarch for the baby's sore bottom. "Development people lack a basis of deep friendships for one another."

Are we to conclude then that non-development people—people living in farmhouses, cooperative apartments, public housing projects, custom-built homes, pre-World War II construction—are all buddy-buddy? Is the logic then to conclude that the only guarantee of friendship is to know someone living in a house with soft-wood floors, a black coal stove in the kitchen and a soapstone sink? We had no idea that friendship was ever based on prescribed standards of frontage, setbacks and floor space.

Home builders and schools

Philip Will Jr., FAIA, Chicago

The basic contribution of home builders to the solution of the school problem lies in creation of communities that are healthy—both economically and socially. Such communities must be complete and in balance between housing of all types; commercial, industrial, institutional building and recreational facilities.

Such communities can offer full amenities for the full American life with economic strength and long-range stability—and they will demand good schools. Furthermore, they will have the capacity to plan, operate and pay for such schools.

Basic facts about the cost of education must be kept in mind:

1. Calculated on a reasonable life span, the cost of the physical plant is actually only 7 to 15% of the cost of educating a child. Teachers' salaries and operations should be and still are the major expenses.

2. The major economies in physical plant derive from:

a) Careful and early educational, architectural and regional planning.

b) Careful and early site selection and acquisition.

c) Low cost financing. On a 20-year bond issue at 4%, the taxpayer pays 42 cents for the use of every dollar he borrows.

d) Aesthetic delight. People quickly rationalize the destruction of an ugly building but will go to extreme lengths to preserve those they love.

Housing technology

Buckminster Fuller, engineer-designer

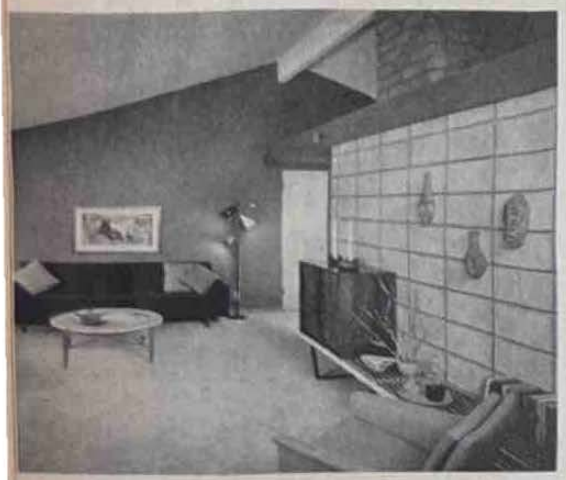
Modern housing must be seen in its relationship to a world which is constantly contracting due to modern technological improvements. Modern design is taking the same resources we have been utilizing for years and upping their production performances.

In terms of shelter this means builders must utilize more fully this country's industrialization. Our overall economy is operating at only 4% efficiency. It is technically possible for the nation as a whole—and builders in particular—to speed up and increase performance.

This acceleration has already speeded up man's standard of living. The motel building program now growing up in this country is an example of utilization of the benefits of our more and better roads. To this natural advantage of increased travel, motels have added the sales incentive of housing that looks brand new: frequency modulation or the use of the same space for the same purpose by many different people.

America today is upping its groups

Continued on p. 32



NAHB 1957 DESIGN MERIT AWARDS

Signature Homes (left), Anaheim, Calif., builder; Palmer & Krisel, architects.

Larwin Co. (below), Los Angeles, builder; Palmer & Krisel, architects.

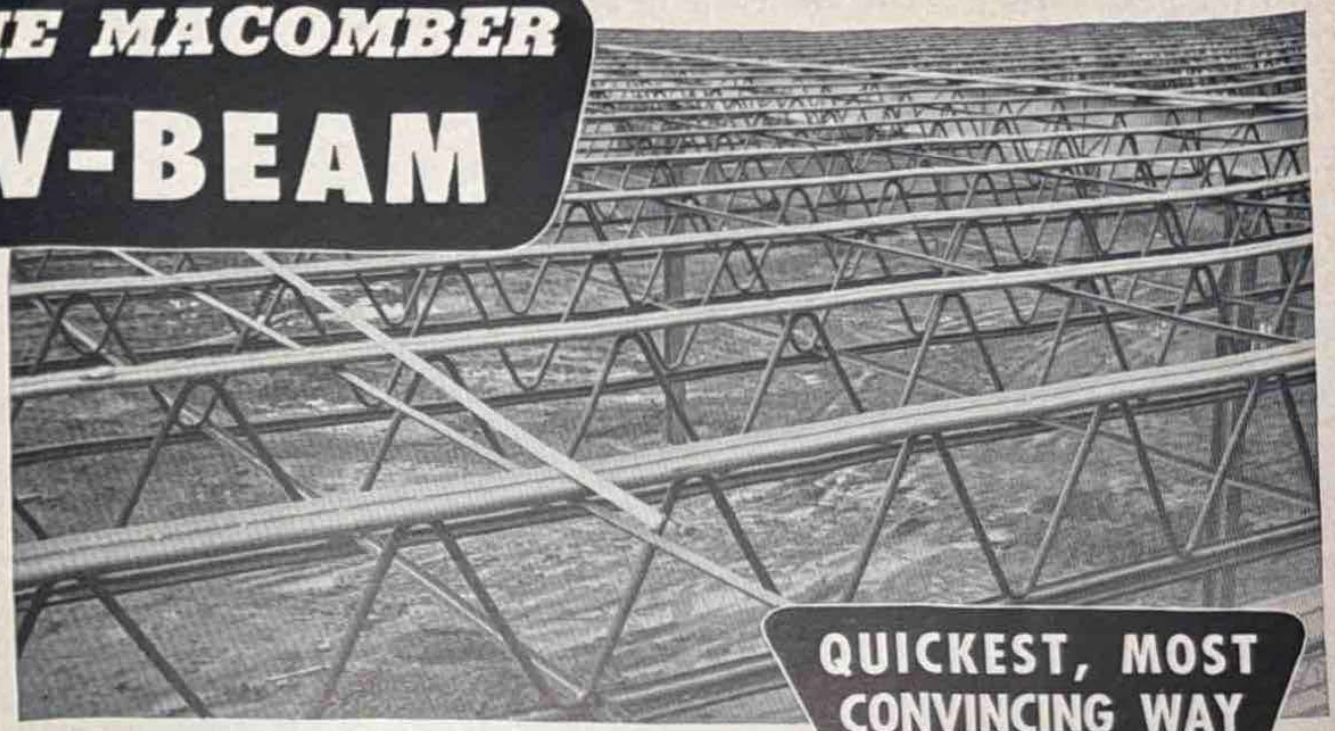
George D. Buccola, Anaheim, Calif., builder; Smith & Williams, architects.

Robert S. Strasburg, Circle Land Co., Yuma, Ariz., builder; Jones & Urmstron, Los Angeles, architects.

Douglas Simmonds photos



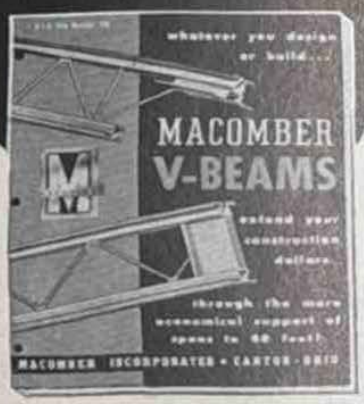
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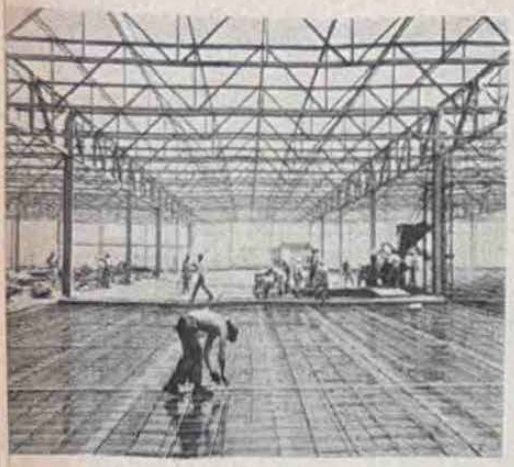
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REINFORCEMENTS and flooring base are checked prior to pouring of cement and addition of emery aggregate. View shown is second floor of plant.

A million sq. ft. of emery aggregate

Here's how a floor surface hardener, applied to concrete slab shortly after pouring, yields a hard, durable, non-skid surface for a big new automotive assembly plant



CASTING OF MIX, after which it is "floated" into wet concrete. Ripples and lumps to left are how aggregate mixture appears after casting and before floating.



MIX IS FLOATED into wet slabs by long handled wooden floats shown above.

MORE THAN a million square feet of surface hardened flooring was laid for the new Rosemead assembly plant of Ford Motor Co. at Rivera, Calif., set up to turn out Mercury automobiles at the rate of 10,500 per month.

To meet heavy duty, high traffic requirements, an emery aggregate hardener was worked into the surface of a still wet, regular steel reinforced 6-in. concrete base, designed to have a 3,000-psi. compressive strength. The surface hardener, called Emeri-Topcrete, is a special mixture of type "SH" Cortland emery and a good grade of Portland cement, producing a diamond-like resistance to abrasion, withstanding shock and insuring lateral stability.

Laying procedure

James W. Huston, project manager for the contractor, J. H. Pomeroy & Co., Inc., San Francisco, in describing how the floor was laid, says that the surface hardener is drymixed in a regular concrete mixer and then is cast on the still wet underslab with shovels. The workman casts the "SH" in one direction, say to his left, and then from a few feet to his left he casts to his right, creating a criss-cross of the mixture over the concrete base.

At the rate of 90 lb. of hardener per square foot of slab, the hardener is worked into the concrete with wooden floats which are manipulated by hand. After the concrete slab with its worked-in surface hardener has set for half an hour, the top is gone over with circular finishing machines.

Curing procedure

The last step in putting down the floors is the application of a membrane curing compound, which is sprayed on the surface as soon as it has been gone over by the finishing machines. Because the weather is hot and dry in southern California, curing must be applied quickly to prevent the moisture from evaporating from the concrete. If it dries too rapidly, concrete loses strength, is apt to become criss-crossed with shrinkage cracks and develop a soft dusting, crumbling structure.

The membrane curing compound which is sprayed on the floor surface has a waxy texture and closes the floor surface and cures the slab by preventing the moisture in the concrete from evaporating; thus the chemical process may continue, yielding a strong bond between aggregate and cement. After 28 days the concrete is considered cured.

The construction crew laid an average of 9,000 sq. ft. every six working hours. This included the pouring of the concrete, working in the surface hardener, finishing off the slab and applying the curing compound.

Benefits

Plant engineers cite these advantages in the use of an emery admixture to a floor surface:

1. It remains smooth because of the tough, dense emery particles at the surface.

2. It is non-skid because the emery is abrasive.

3. It is non-porous, non-dusting, moisture resistant and non-rusting because of the extreme denseness of the emery.

4. It is uniform because the emery particles have a natural affinity for cement.

The emery used in Emery-Topcrete is found only on the East Coast of the United States, particularly near Peekskill, N.Y., where it is mined, crushed, graded and sacked. According to the processor, Walter Maguire Co., Inc., the shipment of "SH" to the Rosemead plant was one of the largest in the firm's history.

Silicones: one answer to masonry protection

ARCHITECTS AND BUILDERS have long sought for materials which might be specified with confidence to give above-grade masonry walls real protection from water in its various forms.

Until a few years ago, the traditional way to give masonry a protective coating was to cover the surface with waxes or metal stearates. This amounted to sealing or varnishing the structure with a continuous film. This type of treatment had several disadvantages, the three principal ones being:

1. Discoloration of the treated surface.
2. Subsequent damage caused by moisture entrapped in the masonry at the time of application.
3. Relatively short period of useful surface, generally only a few months.

Architectural uses of these solutions is a thing of the past. Today there is a much more effective way of putting an "invisible rain-coat" on a masonry surface. This has been done through the development of the chemical family of silicones. Research chemists at the laboratories of Union Carbide and Carbon Corp. developed a special silicone resin which is particularly well suited as the basic ingredient for the formulation of above-grade water repellents. It has stood the test of many experiments and actual service in the United States, Canada and other countries.

The essential differences between the silicone water repellents and the earlier waterproofing materials are these:

1. The silicones cause no change in the appareance of the structure when applied.
2. The silicones allow the masonry wall to "breathe," so that any moisture which is inside the building at the time of application can later escape.
3. Because of the chemical nature of the stillicone resin developed for this purpose, the useful life of a properly applied silicone water repellent runs up to 10 years.

All forms of masonry have one common characteristic that has caused an untold amount of damage and discomfort: the fact that masonry is porous and can absorb large quantities of water. Here are some of the things that happen:

Water creeps into the masonry pores in cold weather and freezes. Expansion of the water when it turns into ice causes little pieces to crack off. This is the process of weathering and spalling.

Water comes in through the pores from the outside, into the inside of a structure, causing paint to peel, woodwork to crack and warp, plaster to stain and fall apart. In warehouses, high indoor humidity can be produced by water-soaked walls, with consequent damaging of stored materials.

Water also carries dirt into the pores where it lodges and defaces the outside walls, often in streaks.

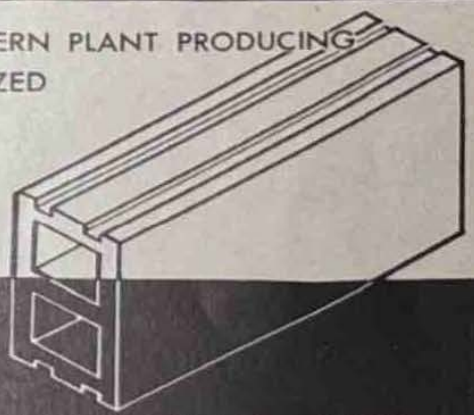
On brick walls especially, efflorescence, with its ugly white streaks, appears as water leeches salts out of the masonry material.

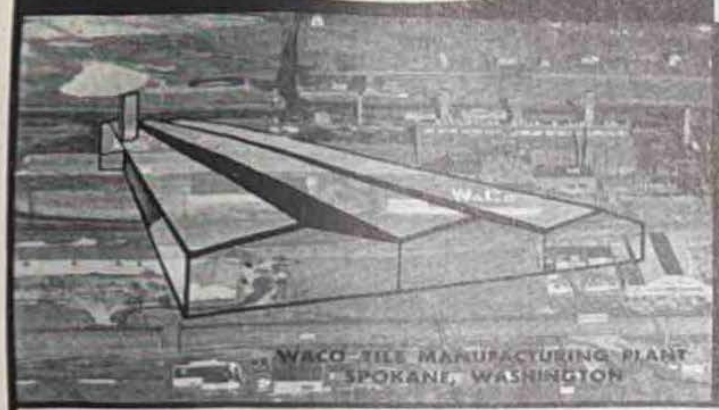
Experience over the years plainly indicates that masonry walls do need protection against water. And, up to the present, nothing has been found with the degree of water repellency which the silicones provide.

Silicone water repellants can be applied from solutions prepared by formulators. Spraying with a low pressure spray gives excellent results. Brushing with a good wall paint brush also does a good job. Any hairline cracks in the masonry wall will be penetrated and treated by the solution.

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Rubber tubes for prestressed concrete

In recent years there has been a growing use of prestressed concrete in building projects. The system makes use of cables in the concrete made up of many fine wires which are stressed before the structure is subjected to the loading of its normal use.

Ducts have to be preformed in the concrete to receive these cables and the use of pneumatic rubber tubes dispenses with costly expendable types avoiding the inconvenience of tapered cores or withdrawable metal tubing. Many concrete designers prefer the ducts to be formed by removable cores, because when the cable is subsequently grouted it bonds well with the concrete walls of the duct, whereas the same bond cannot be anticipated where formers are left in as a permanent lining.

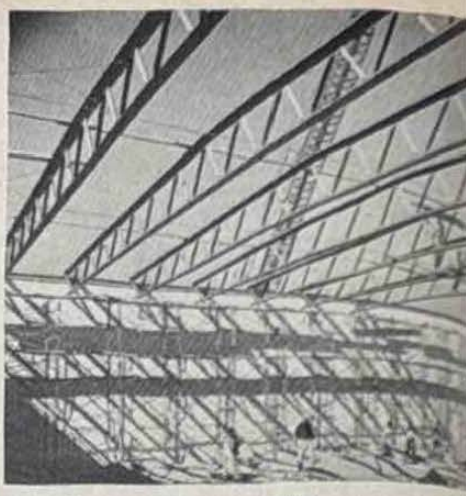
Pneumatic rubber tubes are shown to their best advantage in prestressed concrete work, where constant repetition of the process demands the use of a non-expendable former. Among the advantages:

1) The duct so formed in the concrete enables a first-rate bond to be established between grout and concrete.
2) Casting can be done prior to delivery of the prestressed cables and, owing to the excellence of the duct, no difficulty should be encountered in threading the cables.
3) Speed of operation.
4) Easy storage, the tubes being rolled up and housed in a small space.

In addition to the tube procedure, another method of forming ducts is by use of rubber formers of rectangular section which are made rigid in the framework by a mild steel bar inserted in a central hole throughout its length. When the concrete is cast, the steel rod is pulled out first and then the rubber former is extracted.

Precast concrete

For precast concrete products, rubber pneumatic tubing is used to form continuous ducts in hollow concrete slabs and beams for floors and roofs to save weight and increase thermal insulating capacity and also for piles and other precast elements. In this type of work the tubes should be held at intervals along their length either by temporary locating devices suitable for withdrawal while the concrete is green or by permanent means such as wires attached to the mild steel reinforcement.



LARGEST LONG-SPAN JOISTS yet made by Arcweld Manufacturing Co. for Pacific Northwest are being used for Clover Park High School gymnasium-auditorium south of Tacoma. Building was designed by Charles Rueger & Associates, architects, and William Rueter, structural engineer.

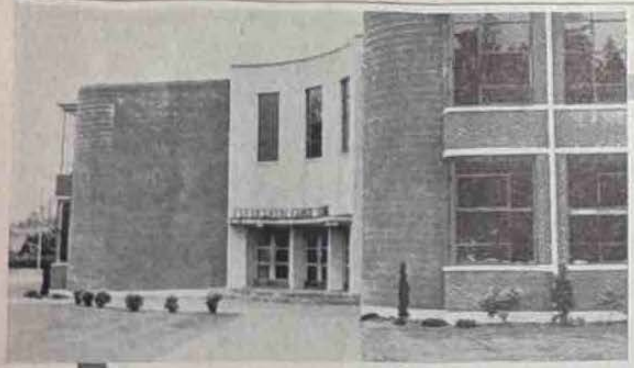
Long-span steel joists

Architects who are attempting to create modern schools at reasonable cost are getting a boost these days from such firms as Arcweld Manufacturing Co. of Seattle.

Long-span joists, essential in the economical construction of auditoriums, gymnasiums and multipurpose rooms, can be made to span up to 96 ft. Largest produced by Arcweld for use in this part of the country—82 ft. long—were just erected at Clover Park Junior High School's new gymnasium-auditorium south of Tacoma. The result will be a structure with no supporting columns.

Arcweld recently invested more than $10,000 in what's called a Zig-Zag Bender, the only one of its kind north of Los Angeles and west of the Mississippi. At the push of a button this 30-ft.-long machine starts at one end to fold up like an accordion. As the folds are made, a steel bar in the machine is bent to form the zig-zag pattern of the web for a steel joist. In seconds a steel bar 20 ft. long and from ⅜ to 1 in. in diameter is bent perfectly. Counting the time it takes to place the steel in the machine, which is done manually, the Zig-Zag Bender can turn out 50 web bars an hour. They are ejected from the machine automatically.

Steel bars and angles that go into the prefabricated joists come from the Seattle plant of Bethlehem Pacific Coast Steel Corp. A local source for joists is important to architects who want to design in steel because the high freight costs involved in shipping these big trusses from other manufacturers in California or the East would normally be prohibitive, particularly for schools. Arcweld is able to deliver from two to ten long-span joists to any jobsite in Washington four days after the order is placed.



architect:
CHARLES V. RUEGER

contractor:
Lewis Construction Co.

mason contractor:
FRED R. BOEDECKER

Bold Architectural Design Featuring

Chehalis Brick

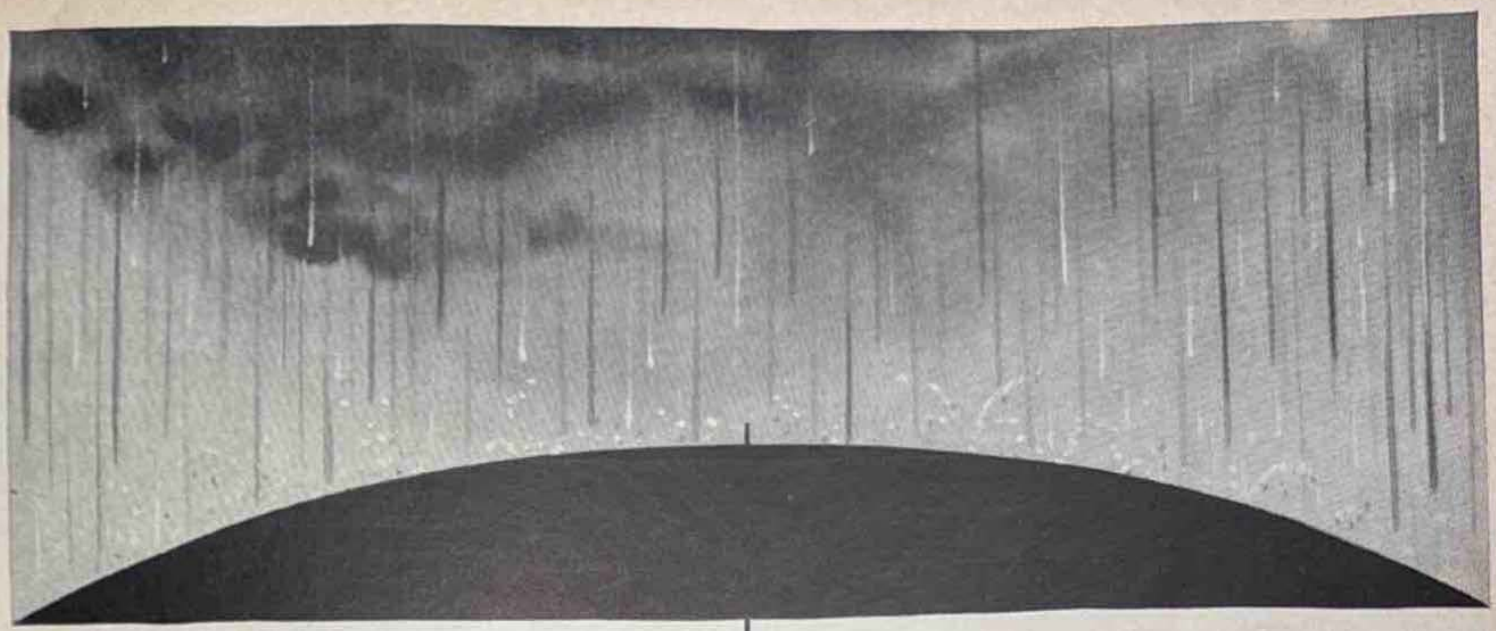
Distinguishes Shelton Grade School Building

The warm colors and pleasing texture of Chehalis Brick, combined with a bold new design concept by the architect, has made the Evergreen Grade School at Shelton one of Washington's finest examples of contemporary school architecture. CHEHALIS SELECT COMMON BRICK—permanent, practical, fire-safe—is used in effective contrast to provide lasting dignity and quality to the structure.

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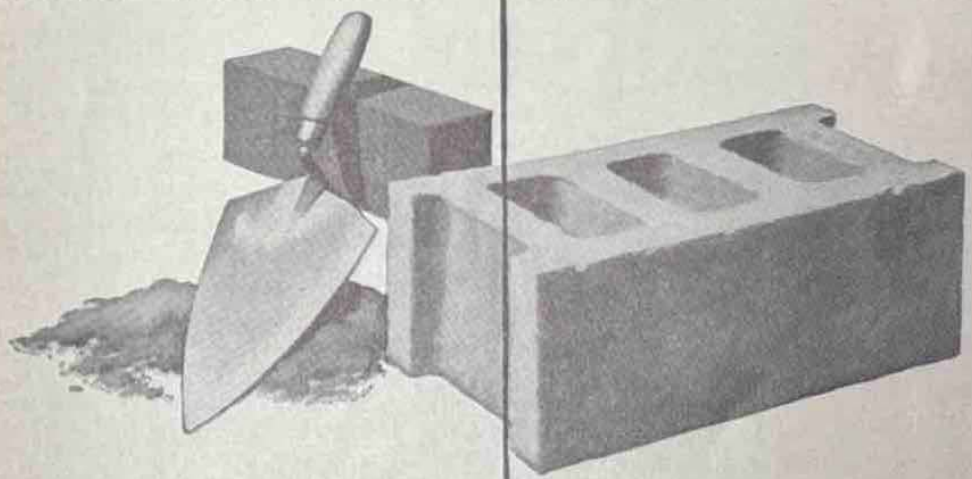
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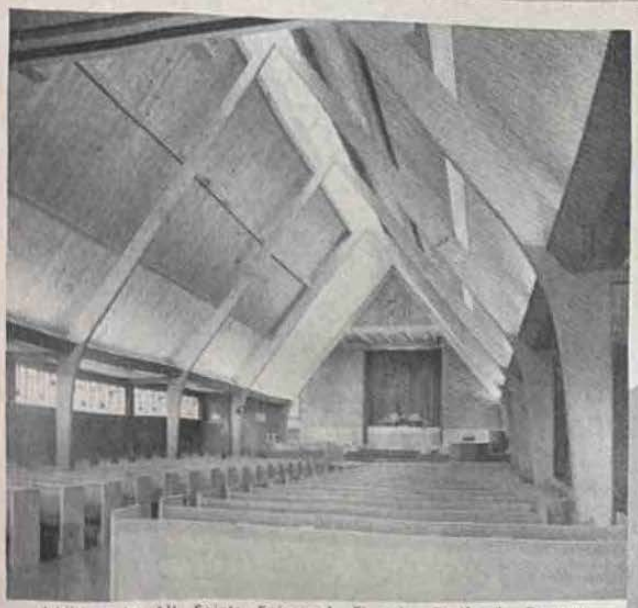
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NAHB convention excerpts (Cont'd from p. 25)

financially and moving forward into other areas and other housing. Experimentation is now opening new territories in this country and abroad which have yet to be fully developed.

In the Arctic, for example, Fuller-designed domical structures were set up to house our radar defenses. Tested for 210-mph. winds, they still had to be light enough to be transported and assembled quickly in sub-zero weather.

U. S. government pavilions for trade fairs in areas like Oran, Casablanca, etc., 10,000 ft. across and light enough to fit in one DC-4, have been installed in two days. At the South Pole, similar domes were erected by Marines in 135 man-minutes. Other domes, strong enough to withstand pressure changes in atomic blast areas, have also been tested and developed. They were easily adaptable for disaster areas and could be dropped from planes along with packaged energy for refrigeration, light and cooking.



Addition to All Saints Episcopal Church, Portland, Oregon. Architect: Stuart B. Mockford, Oregon City, Oregon. Contractor: Anfelt B. Hanson Company, Portland, Oregon. Arch span: 34'; center height 33'4"; 3 arches 5¼" x 7" x 17" at tangent point; 2 arches 5¼" x 7" x 10" at peak base.

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1 to 20 builder

James T. Lendrum, director of Small Homes Council, University of Illinois

(Analysis of 150 homes submitted in a design contest for builders who build 1 to 20 houses a year.)

The average home built in 1956 was one-story, rectangular in shape, had three bedrooms, 1 or 1½ bathrooms, awning or double-hung windows, low-pitched roofs and was conservative in glass expanse.

Providing adequate outdoor living facilities was one of several weaknesses, with only a few having terraces, porches and patios. Indoor living provisions were generally good.

A total of 127 entries had fewer than two bathrooms, which seems to indicate that low volume builders are not as close to their suppliers or subcontractors as the development builders. The 1-20 builder apparently does not get as low a price on plumbing from his subcontractor as a larger volume builder so he compensates by leaving out some plumbing. This is bad merchandising.

Only 39 entries provided kitchen exhaust fans, less than 25% had built-in ranges and fewer than 10% had garbage disposals.

Plastic insulation

R. P. Courtney, Bakelite Co. new product engineering department

The idea of using plastic foam for thermal insulation in home building is not new but it still requires a healthy exchange of ideas between builders and people in the plastics field to find the most profitable ways and means for using this material.

Phenolic resin foam is produced by the simple combination of a liquid resin containing certain modifying agents and an acid catalyst. During the foaming process, the resin changes rapidly from a free flowing liquid to an infusible cellular solid. Proper balance of reaction and expansion results in the formation of a foam having a volume as much as 200 times greater than the original liquid resin.

In practice phenolic resin foam can be made which will expand into foam of densities ranging from ½ lb. per cubic foot to the density of a non-porous resin, about 80 lb. per cubic foot. As one would expect, all cellular materials tend to be poor conductors of heat or conversely, good insulators against heat. Phenolic resin foam of commercial grades has its best insulating property at a density of about 2 lb. per cubic foot.

There are several methods of installing this material. Phenolic foam can be installed by preparing it before hand, like any other insulating

material which is shipped from the manufacturer to the constructor and filled into the wall space as a batting. One of the most interesting and economical possibilities for installing this insulating material is a foaming-in-place operation. In such a method, the ingredients which would produce foam are mixed together rapidly and while still liquid, before foaming starts, introduced into the wall space of a stud frame wall and foamed to whatever height the wall happens to be—normally 8 ft.

The cost of the raw materials for phenolic foam can be competitive in price with even the most inexpensive insulating materials used for home installation today. The greatest saving can be accomplished in installation costs by the development of proper methods.

Urban renewal

Mort Saber, NAHB staff member

Cities cannot continue using millions in federal funds to fatten slum landlords and still stay solvent. Instances of project site selection influenced by slum profiteers leaves no question that enforcement of minimum housing standards and condemnation of unsafe dwellings should precede clearance and redevelopment.

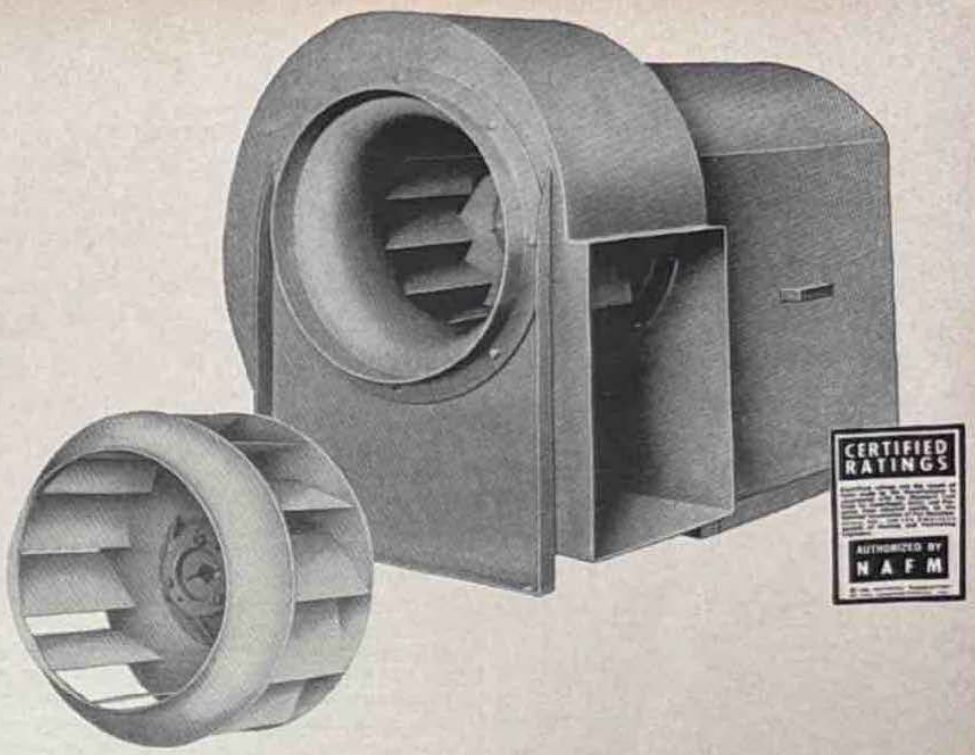
If condemnation proceedings were instituted before clearance negotiations, slum owners would be compelled to tear hovels down at their own expense and would be more inclined to sell the vacant site at a reasonable market value.

There has been a great deal of theorizing about city costs increasing where minimum housing standards compelled improvements to structures that were later included in clearance projects. This has not been proven or even convincingly demonstrated. Where such a situation has developed the fault is with city planning and lack of coordination between city agencies related to urban renewal.

What has been proven by the six years of experience since redevelopment aid appeared in the Housing Act of 1949 is that it gets very expensive when the city has to negotiate for slum properties, tear them down and sell at a reduced figure. It gets even more expensive when there are holdouts who force court action and delay projects while interest payments on loans and salaries for personnel pile up.

Far more fundamental to this issue than the dollar amount is the fact that many cities still have not taken the same action against rotten housing that they take against rotten food.

If we are honestly concerned about

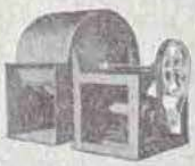


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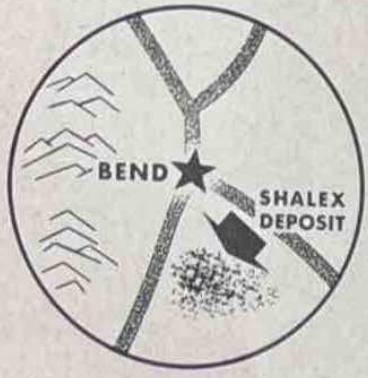
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the living conditions of the people in our communities, then a first expenditure must be to provide inspectors and housing code enforcement machinery to see that every living unit in the city meets minimum standards of health and safety. This is more than a health and safety hazard for the people concerned. It is lost tax revenue and spiraling city service costs that rob the homeowner, landlord, tenant, businessman, taxpayer.

Nuclear heating

Dr. Ralph Lapp, nuclear scientist

America as a nation has reached the turning point in atomic energy. We must shift our emphasis from military to civilian useages which up until now have played third fiddle in our atomic energy program.

According to the atomic energy budget for June 1957-June 1958, almost 90% of the $300 million allocated is designed for military application. Of this amount, atomic bombs get the biggest share, with reactors for the armed forces running a poor third.

However, I believe 1957 will see a turning point in emphasis with the development of central power plants

Briefs of papers presented here do not necessarily consist entirely of direct quotations.

run on uranium. In addition to providing an increasing amount of electrical power, these new plants will furnish energy which can compete with coal for home heating purposes.

Entire new communities can be created through the use of new fuels in high cost areas. Since uranium is virtually a weightless fuel, it may cut the expense of maintaining a suburban home and make possible the development of new suburban areas.

If we take a very long-range view of the future, remembering that today's plans may be the pattern for future centuries, we may accept as fact that scientists have within their grasp a source of hydrogen power that will be available long after such standard power resources as oil and coal have been exhausted.

This country has not yet developed any extensive shelter program—not through government, industrial or indiviual application. No adequate civil defense is possible without an extensive multibillion dollar shelter program; and although such a program would eventually cost at least $30 billion, this amount, spread out over a number of years, would cost less than one-tenth of the present military atomic budget.

Profits in prefabs

George E. Price, president of Prefabricated Home Manufacturers' Institute

Prefabrication has become the most effective means of combating these rising costs, which otherwise threaten to push home prices beyond the ability of a vast number of American families to buy. Through a continual development of our methods, we are achieving a greater degree of prefabrication —a more complete house package being the result.

Prefabricated homes are today the style leaders in the housing industry. they are planned and designed by the country's finest architects, who have given them the utmost in charm and livability. It is important to remember that this superior styling is a quality feature that is found in a wide range of prefabricated houses. An American family that might not otherwise be able to afford architectural service can get it in even the most modest prefabricated home.

There is a great variety of floor plans and exterior designs in every price range. Furthermore, a prefabricated home can now be customized as easily as any other and at a considerable saving.

Component technique

R. F. Schmitt, Berea, Ohio, builder

Throw the book out of the window every day and ask: "Is this the best method, design and material for the job?" Local codes and conditions frequently dilute the import of a specific approach. However, I should like to describe briefly our operation in which we have made a modest progress in applying some of the foregoing principles.

We build houses by a method commonly known as a standardized component technique. This has been applied over a period of four years with an annual production from 20 to 70 houses. In total, we have used it on about 250 houses. Its effect is a sales price $4,000 under the market and $3,000 under the FHA appraisal.

Our component technique has permitted us to gain considerable cost saving from a production and method standpoint and to retain a considerable degree of custom building and freedom of planning. In our system we attempt to project component thinking into every phase of the production of a home, beginning with land development on through the final completion of the house.

The use of this approach opens many opportunities for cost savings in method and particularly in the integration of the production system.

not specified

home was never like this

It is likely that all this talk about architects and home builders holding hands has been overworked of late; that a litle more action at this stage of the game might make a sizable contribution to the housing situation. And yet there are signs that some progress—on the West Coast, anyhow—has been made in design and tract planning. At the NAHB convention earlier this year, the four design awards all went to California architects and at least one of the projects cited is worthy of note and will be featured in a later issue of PA&B.

This month we are carrying some excerpts from the home builder sessions, not because the statements in themselves are world-shaking but because architects once in a while ought to get an inkling of what builders are talking about. We certainly do not agree with some of the statements, such as, "Prefabricated homes are today the style leaders of the housing industry." Nevertheless, neither architect nor builder can close his eyes to the fact that prefabrication is becoming an important element in the housing picture.

Among non-published comments, there are several we cannot swallow. For example, the implications made by a Minnesota home builder when he told his colleagues of the significant role their business plays in the nation's home life because "nine of every 10 divorced couples lived in rented units at the time of separation." We are reminded that a while back Richard Neutra related good architecture to happy and harmonious marriage but that's another matter.

Nor do we feel than an eastern marketing and building consultant made much of a contribution to the program when, addressing a women's builders panel, he divided potential home buyers into four classes, depending on the type of appeal which meets their desires and wants. The first, he said, is the appeal of the rose-covered cottage. "This is for the family which desires that little dream house in the country, the yard for the kids, the garden, flowers, trees, generally a quiet atmosphere."

The second appeal is that of minimum shelter. "These are the people who spend more money for food and clothing and automobiles than they do for shelter." And the third class are the "fun and frolic" group, the people who love big subdivisions. "They want to be where there are lots of people, swimming pools, parks, civic clubs, volunteer fire departments, big shopping centers."

The fourth is that of "snob appeal," with location the primary consideration. "A snob is the type of person who will pay $25,000 for a $20,000 house in the 'right' neighborhood."

So much for the marketing expert. We'll put our money on the Michigan builder who declared, "There ought to be not only a TV room but one to get away from TV."

Anyone for tennis?

100 candles—aia!

As our May issue goes to press we are in the nation's capital to join in on the AIA's centennial celebration. A complete report of the convention, with emphasis on the activities of West Coast architects, will be found in PA&B for June—provided we can sneak that editorial task in between a weekend trip to New York City and a vacation in our home state of Wisconsin.

Speaking of the AIA, we note that of the 48 members advanced to fellowship in this centennial year, only 20 have been cited for design. We hope this is not indicative of what is to come in the century that beckons.

A much more encouraging note is found in the institute's announcement of the annual journalism awards competition, which finds Cranston Jones of Time taking top honors in the general circulation magazine category with his cover story on Eero Saarinen of July 2, 1956.

R.E.K.



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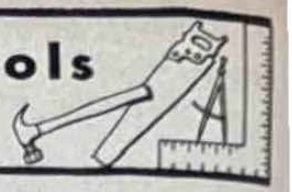
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* *Naturally, it's our own survey. Like to see the full report? Shape chart and specification details also available for the asking from* KRAFTILE CO., *Niles, Calif.; or* WASHINGTON BRICK & LIME CO., *Spokane, Wash., members of*

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LIGHTING SYSTEM: In its third contribution to wall-to-wall fluorescent ceiling lighting, Sylvania has introduced Sylva-Lume which permits creation of a variety of custom designs from a few standard parts. The system features interchangeable plastic panels that may be designed in an almost limitless number of overall patterns and color, form, texture and style. Sylva-Lume is adaptable to offices, stores, hotels, schools and public buildings. — Sylvania Electric Products, Inc.

(Item No. 1)

ROOF VAPOR SEAL: Celotex insulating roof slabs provide protection by employing a vapor seal at joints as well as a built-in asphalt membrane vapor barrier. Effecting the vapor seal is a rubber gasket inset premanently along the long tongue edge and continued across one short edge of the slab, resulting in a roof deck construction in which all four edges of the slabs are sealed by the gaskets. The roof slab units (also available without vapor barrier) are made of Celotex 2x8-ft. insulation board with a choice of 2- or 3-in. laminated thicknesses.—The Celotex Corp.

(Item No. 2)

BASE MOLDING: A molded rubber cove base, 2½ in high, that forms a curved surface rather than a joint or right angle between floor and wall is especially practical for facing the toe space of modern kitchen cabinets and counter units. Heretofore it has been necessary, in most cases, to cut down the height of a standard 4- or 6-in. molding in order to get a cove curve in the toe spaces of such pieces. The base comes in 4-ft. lengths, has a highly polished, durable outer surface and a sanded back for better adhesion.—B. F. Goodrich Co.

(Item No. 3)

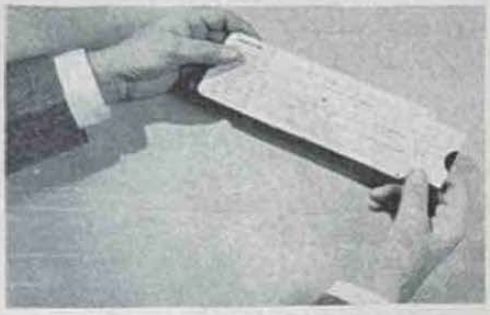
CURTAIN WALL GLASS: Vitrolux, a ¼-in. spandrel plate glass, is heat-strengthened with permanent color fused onto the inner side of the polished plate. Sixteen standard colors plus black and white are offered in 60x84-in. units. The surfacing material, which hides from view structural framework and building service facilities, is expected to find its most natural architectural use with ribbon windows of plate glass providing color contrasts in entire walls of glass.—Libby-Owens-Ford Glass Co.

(Item No. 4)

WEATHER STRIPPING: Inlock's self-sealing weatherstrip of Neoprene presents an economical way to install such components of contemporary architecture as curtain walls and ribbon walls, while assuring a positive, leakproof seal. It requires no special cement, binders or sealing or caulking compounds, presents a uniform appearance and may be removed and reused whenever necessary. The strip is fused into a continuous, one-piece, cushion-sealed setting for any size pane of glass, plastic sash or panel.—Inland Manufacturing Division, General Motors Corp.

(Item No. 5)

ROOF INSULATION SELECTOR: Selecting the correct roof insulation is made easier with Armstrong's slide



rule, based on the new certified C-values recommended by the U. S. Department of Commerce and Bureau of Standards. One side of the selector determines the C-value than an insulation must have to meet a specified U-value; the other side determines the U-value necessary to prevent condensation. A few minutes' practice should enable anyone to use the slide rule with ease.—Armstrong Cork Co.

(Item No. 6)

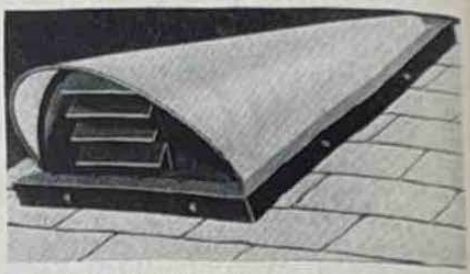
ALDER PANEL: Especially suited to rumpus rooms, cottages, lodges and motels, native alder is being used as a ¾-in. solid V-joint interior paneling, lightly finished in spar varnish with its golden and rich brown tones showing through. This is just one of the new uses which Pacific Coast architects and builders are finding for hardwoods from Washington, Oregon and California.—Northwest Hardwood Association.

(Item No. 7)

WARDROBE DOORS: Originated for schoolrooms, WARDROBEdoors facilitate neat, easily accessible cloak closets in minimum space for offices, plants, churches, hospitals and other buildings. Fingertip pressure raises and lowers the doors, consisting of two upward-acting sections, suitable for mounting chalkboard, chalk-rail and tackboard. The design permits ample wardrobe space in 2 ft. of depth and leaves floor and aisle completely clear for supervision and traffic when the door is open. The hardboard facing is scuff resistant.—Barber-Colman Co.

(Item No. 8)

SKYLIGHT: Daylite's plexiglass skylight fan and fluorescent light fixture are combined in one packaged unit and



come in three colors—natural, white and gray. The fan is concealed from view showing only the skylight from room below and a vented translucent plexiglass ceiling panel offers a flush ceiling appearance. Designed to flow with the pitch of the roof, the skylight rises only 12 in. from base to top and can be used on a flat roof or with a 5 and 12 pitch.—Daylite Engineering Co.

(Item No. 9)

VENEER BASE: Timboard, produced from prime wood formerly discarded as waste, has been designed not to replace plywood sheathing or wall surfacing but as a base for veneers and plastics. Wood veneers as thin as 1/42 in. can be applied without using crossbanding and with no telegraphing of core texture. Timboard has an edge-glueing strength almost twice that of plywood and comes in thicknesses from ⅜ through 1⅛ in.—Roddis Plywood Corp.

(Item No. 10)

ALUMINUM GRATING: For heavy and versatile usage in construction and maintenance industries, Klemp aluminum grating combines the advantages of a rectangular opening and riveted models. A 79% clear opening makes it practically nil for dirt, oil or scum to accumulate in corners. In addition to customary applications, the grating is finding use as room dividers and window visors.—Klemp Metal Grating Corp.

(Item No. 11)

SLIDING DOOR: Main feature of the improved Model G-1 steel sliding door is a black and lucite full-grip pull which harmonizes with just about any decorative scheme. Continuous channel mohair on all sides of the sliding section completely seals the door against infiltration of any weather.—Slide-View Door and Window Co.

(Item No. 12)

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CHALKBOARDS: Performance specifications for porcelain enamel chalkboards cover such specific qualifications as design and fabrication, finish, test procedures and packing. The wearability test used by manufacturers to measure their performance consists of a machine that slides a chalk-loaded eraser across a porcelain enamel specimen at 35 cycles per minute. This test, maintained for 30 hours with the gloss of the specimen measured at the beginning and end of the period, has shown that the approved enamels will not increase in gloss by more than three units.—Porcelain Enamel Institute.

(Item No. 13)

SEALERS: A four-page brochure lists the various types of Weatherban sealers available for sealing curtain walls, building panels and expansion joints, together with information on surface and joint preparation, application procedures and sealer properties. Drawings illustrate suggested minimum and maximum sealer joint sizes for curtain wall panels, methods of sealing curtain walls and sections of typical curtain wall structures.—Minnesota Mining and Manufacturing Co.

(Item No. 14)

ILLUMINATED CEILINGS: The story of Luve-Tile is told in a 16-page catalog which provides illustrated material on how to plan, how to install and how to maintain the illuminated ceilings. Also included are typical installations, specifications and description of the basic elements of the louvered tiles, molded in 12-in. squares of light-stabilized Polystyrene plastic, which can be used for complete ceilings or arranged in smaller sections to complement the architecture.—J. A. Wilson Lighting and Display, Inc.

(Item No. 15)

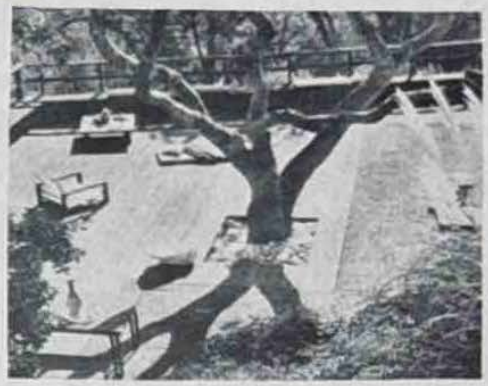
ADHESIVES CHART: A lot of application and descriptive information, including data on adhesives, coating and sealers, is packed into an easy-to-read industrial materials selection chart. It is divided into six sections: reclaim rubber, synthetic rubber, latices, plastic, epoxy resins and calkings.—Miracle Adhesives Corp.

(Item No. 16)

METAL SIGNS, SYMBOLS: "Graphic Design in Eternal Metals" provides four pages of illustrations of the variety of letters, signs, plaques, tablets and other art symbols made by Bayer to identify and decorate buildings. These architectural products are executed in bronze, aluminum, nickel-silver, brass and stainless steel.—A. J. Bayer Co.

(Item No. 17)

LANDSCAPING IDEAS: How to expand living space with landscaping structures is beautifully described in



the 1957 edition of "Garden Redwood Ideas from California." Ilustrated in the 16 pages, several of which are in color, are decks and terraces, fences and privacy barriers, garden shelters and potting sheds, retaining walls and raised planting beds, lanai rooms and poolside areas, benches and planters. Landscape architect Robert Royston designed the furniture which is pictured in terrace scenes on the front and back covers.—California Redwood Association.

(Item No. 18)

STEEL ROOF DECK: Truscon's 36-page catalog gives technical data, construction and erection details and specifications for its Ferrobord steel decking and accessories. Loading tables for all types of construction are included, along with photos of typical installations.—Truscon Steel Division, Republic Steel Corp.

(Item No. 19)

TIMBER DOME: Readers who are interested in seeing additional construction photos of the Montana State College Health and Physical Education Center (PA&B for April 1957) will find them in the monthly bulletin issued by Timber Structures, fabricator of the members used in the world's widest span timber building. There is also a cutaway section of the arena, along with details of such features as the tension ring, compression ring, arch rib splice and radial arch rib.—Timber Structures, Inc.

(Item No. 20)

SAFETY BARS: Hospital architects will be interested in "Reach for Safety," a 60-page body mechanics manual demonstrating the use of Reach Grab bars for patient maneuverability. More than 50 action drawings accompany the explanatory text.—National Steel Products Co.

(Item No. 21)

MARBLE: To acquaint the architect, builder, building owner and general public with its company, product and philosophy of operation, Carthage Marble has produced "A Story about Man and His Search for Beauty." The 52-page king-size presentation features illustrations of some of the world's greatest architecture, of present-day examples of the varied use of marble and of scenes depicting phases of marble production. Physical characteristics of marble are included but technical data is kept to a minimum.—Carthage Marble Corp.

(Item No. 22)

ALUMINUM WINDOWS: Universal is offering a comprehensive file of full- and quarter-scale window and screen details designed for convenient tracing. The file also contains a 16-page catalog giving standard aluminum window dimensions and details, as well as specifications for awning, projected, casement and window wall units.—Universal Window Co.

(Item No. 23)

PLASTIC LAMINATE: A 22-page booklet devoted to Micarta is tabbed an architect's reference manual and it is exactly that. Especially helpful are construction and application details for walls, commercial fixtures, sink and countertops, doors and movable and patterns offered are reproduced in full color.—United States Plywood Corp.

(Item No. 24)

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MAY 1957

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PA&B

T-square talk

NEW FIRM: Tacoma architects Alan Liddle, AIA, and Robert M. Jones, AIA, have combined separate practices under the firm name of Liddle & Jones, with offices at 1716 Pacific Ave. Both are graduates of the University of Washington. Liddle did a year of advanced study in Switzerland and entered private practice in 1952; Jones most recently was an associate in the office of Robert Billsbrough Price.

NEW OFFICE: John Harvey Carter has opened an office for the general practice of architecture at 1401 21st St., Room 201 Kaiser Building, Sacramento (GIlbert 3-1175).

NEW PARTNER: The Billings, Mont., architectural firm of Loners & Stroebe has added a third partner, Willard D. Johnson, AIA, and is now practicing under the name of Loners, Stroebe & Johnson.

ON THE MOVE: Charles Gilman Davis, AIA, has moved his office from the Loyalty Building to 2035 S.W. 58th Ave., Portland, where he is sharing space with another architect, Thomas G. Vadnais.

DIED: George B. McDougall, one-time California state architect, died in San Rafael April 20 after a brief illness at the age of 88. A past president of the Northern California Chapter, AIA, he had been a state architect for a quarter of a century when he retired 18 years ago.

John L. McCauley, 78, who during his active career designed some of Seattle's civic buildings and hotels, passed away late in March in San Diego, where he had lived for 27 years.

NEW ASSOCIATES: Salem, Ore., architect William I. Williams has advanced Roy H. Trask and W. Reginald Walker to associates of his firm.

MONTANA EXAMINERS: A. V. McIver of Great Falls is the new president of the Montana State Board of Architectural Examiners. Sigvald Berg of Helena is vice president and C. C. Cohagen of Billings, secretary.

TRADE FAIR: May 25 has been set aside as Architects' Day at the Washington State International Trade Fair in Seattle's National Guard Armory. Members of the profession will be admitted without charge from 1-10:30 p.m. on the day before the annual event ends.

Two Seattle architects are associated with the 1957 fair. John S. Detlie, AIA, designed decorations and Carl F. Gould, AIA, is serving on a panel to appraise displayed merchandise which will be shown later at the Seattle Art Museum and elsewhere in the state.

Miss Dayis Holcomb, former executive director of the Washington State Chapter, AIA, is publicity director.

MEMORIAL FUND: To honor the memory of the late Julia Morgan, one of the state's pioneer architects, a fund of $10,000—nucleus of an endowment to aid architectural students—has been established at the University of California. Gifts may be sent to the regents, either in checks, securities or other negotiable form.

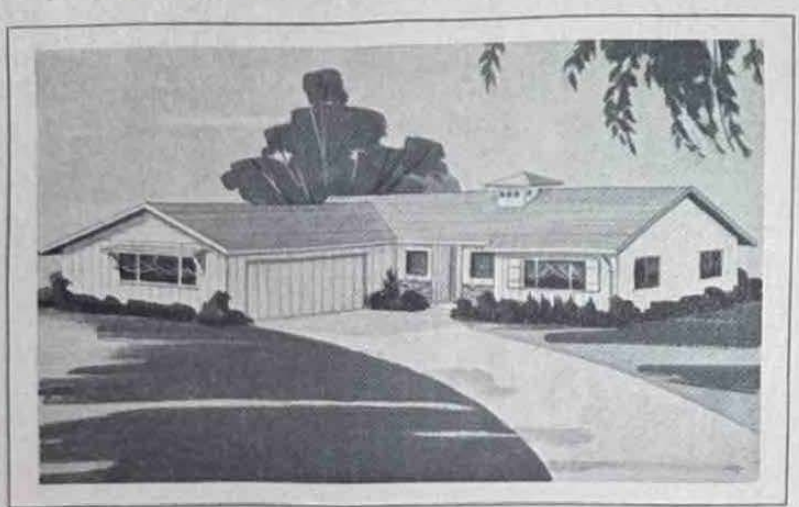
HONORED: Richard J. Neutra, FAIA, of Los Angeles has been voted an honorary member of the Accademia Nazionale di San Luca of Rome, comprised of Italy's most distinguished painters, sculptors and architects.

APPOINTED: Prof. Harry C. Weller, chairman of Washington State College's department of architectural engineering, is one of four new members named to the national education committee and the only representative from the West.

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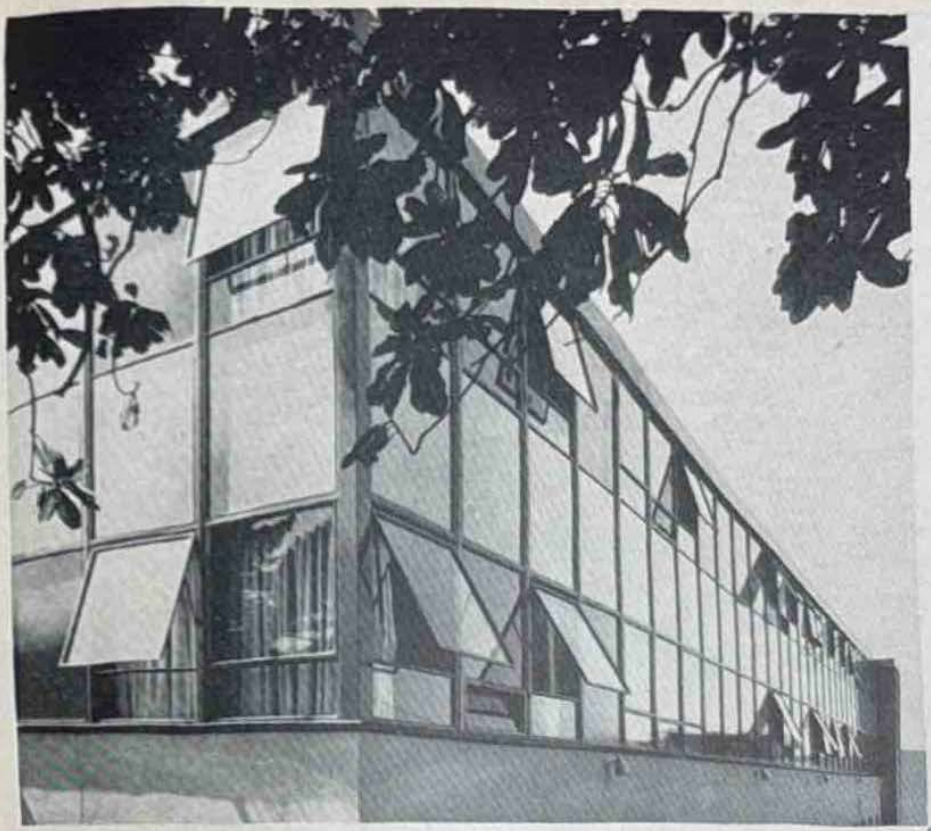


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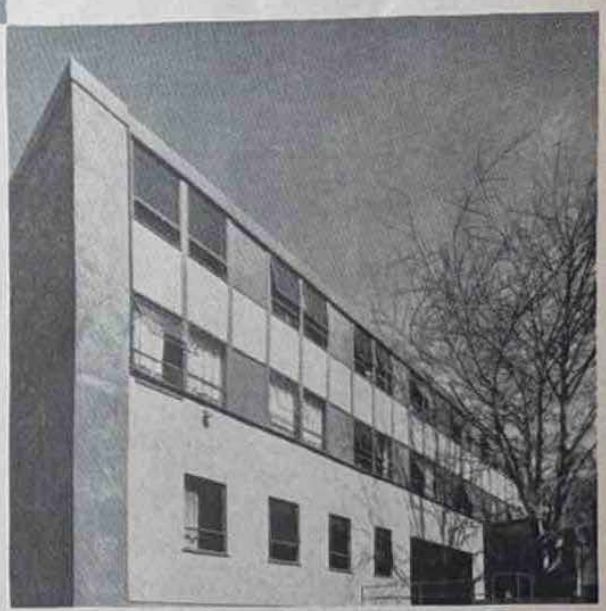
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• **Unit Masonry Association** of Seattle will hold its annual scholarship and awards banquet May 28 at the Washington Athletic Club. Speaker will be Frank Tufaro of New York, executive secretary of the Building Stone Institute and past president of the New York State Home Builders Association.

• **Laminated Panels, Inc.**, president C. Ray Smith, 72, of Seattle and former vice president of Morrison-Knudsen Co., Inc., died April 1 after a long illness.

• **Pomona Tile Manufacturing Co.** has named Richard L. Scherbacher to the newly created post of director of sales to coordinate activities of all branches throughout the country. Scherbacher, a graduate of the University of California, was general manager of the Los Angeles and Beverly Hills stores of Parmelee Dohrmann Co. for five years before joining Pomona Tile.

Among four new district offices set up by Pomona Tile are two on the West Coast—Sacramento, headed by Bab Touros, and Colton, by Dee Brown.

• **Gridwall Co.** of North Hollywood, Calif., which is now operating independently of its parent organization, Glide Window Co., has announced plans to expand its manufacturing and warehouse facilities.

• **United States Steel Corp.** supply division has created a Pacific Northwest district to expand operations and service in Oregon and Washington, with Edward C. LaBart as manager and Richard M. Padden, assistant manager. The division will continue to operate its warehouses in Portland and Seattle but office sales service functions will be centralized in the latter.

• **Empire Erection Co.** has been established at E. 8205 Marietta, Spokane, and is handling operations previously covered by Steelfab, Inc. Under the management of Earl Harris, Empire is an authorized dealer for Armco Steelox buildings.

• **Pack River Tree Farm Products** of Spokane has announced plans to construct two more plants for manufacture of Tenex, a waferwood textured panel, increasing production from a current 60 to 300 or more tons daily. Construction of a new plant at Sandpoint, Idaho, site of the present Tenex facility, is slated to begin next fall and another at Coeur d'Alene, Idaho, a few months later.

• **Robertshaw-Fulton Controls Co.** will begin construction of a $250,000 western research center this spring, which will be merged with the firm's research facility near the Los Angeles International Airport.

Ralph J. Davidson has been named sales representative of the Pacific Southwest, with offices in Long Beach, Calif.

• **General Controls Co.** has named Stan Osborne as field representative for its Los Angeles branch.

• **Holly-General Co.** with headquarters at 875 S. Arroyo Parkway, Pasadena, Calif., is the name of a new division formed by combining the administrative and sales activities of Holly Manufacturing Co. and General Water Heater Corp.

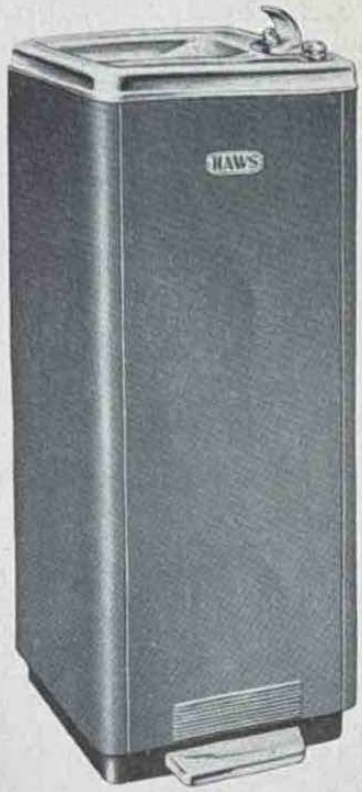
Arthur Drucker is San Francisco district manager for Holly-General.

• **Calaveras Cement Co.** of San Francisco has appointed William G. Jeffery as sales manager.

• **Day and Night Manufacturing Co.** of Monrovia, Calif., has appointed Owen McComas to the position of

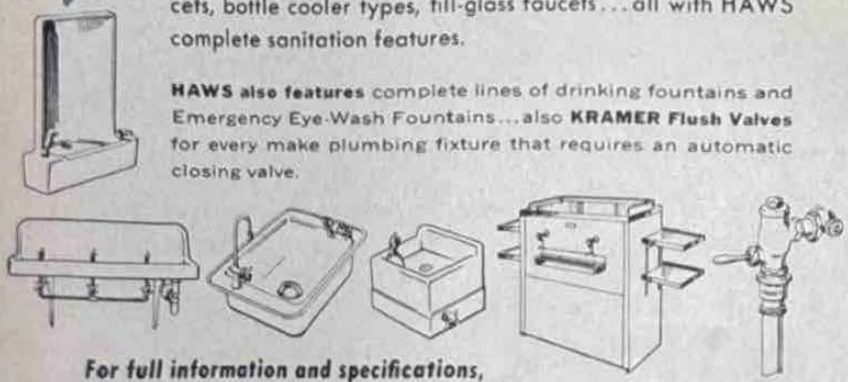
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national manager of new construction sales. Before joining the company in 1956 as product promotion manager for heating and air conditioning, he was director of merchandising for Arcadia Metal Products.

• **Sun Valley Industries, Inc.,** has appointed Ed Davison to manage its newly established Pacific Northwest branch in Seattle, serving Washington, Oregon, Idaho and Montana.

• **W. P. Fuller & Co.** has named Paul Anderson to the newly created post of manager of public relations.

• **Meg-A-Therm Corp.** of Los Angeles has been purchased by Edwin L. Weigand Co. and the firm is now known as Pacific Chromolax, Inc., located at 19119 S. Hamilton St., Gardena. Calif. Montgomery Brothers is the West Coast representative for all Meg-A-Therm products.

• **Armstrong Cork Co.** building products division has appointed W. A. Mixon as resident sales representative in Sacramento, Calif.

• **National Electric Products Corp.** has opened its new warehouse at 6400 Corvette St., Los Angeles (Raymond 3-4654), with 25,000 sq. ft. of floor area.

Laminated wood wholesale operation is unique

The nation's first residential laminated wood wholesale warehouse has been opened in Seattle, stocking and cutting beams to customer specifications.

Major stumbling block in similar operations across the land has been the necessity of stocking many different sizes. Bob Andrews and Bob Borneman, in forming Laminated Woods, Inc., set up their own size standardization.

In addition to questioning scores of residential designers, the two men studied reams of old solid timber beam order files from past years. From the many possible laminated wood combinations and sizes, only seven were selected. The initial order was made up of 50- and 64-ft. lengths in 3¼- and 5¼-in. widths and 4⅞- to 14⅝-in. depths.

"By stocking and cutting these standard sizes to the exact lengths needed, we can supply beams to lumber dealers in the western states at a moment's notice for the majority of the residential and small to medium sized commercial and industrial jobs," Andrews comments. "Not only are laminated beams available in sizes difficult to obtain from solid timber but they are thoroughly kiln-dried before laminating to resist checking, warping, twisting and other seasoning characteristics."

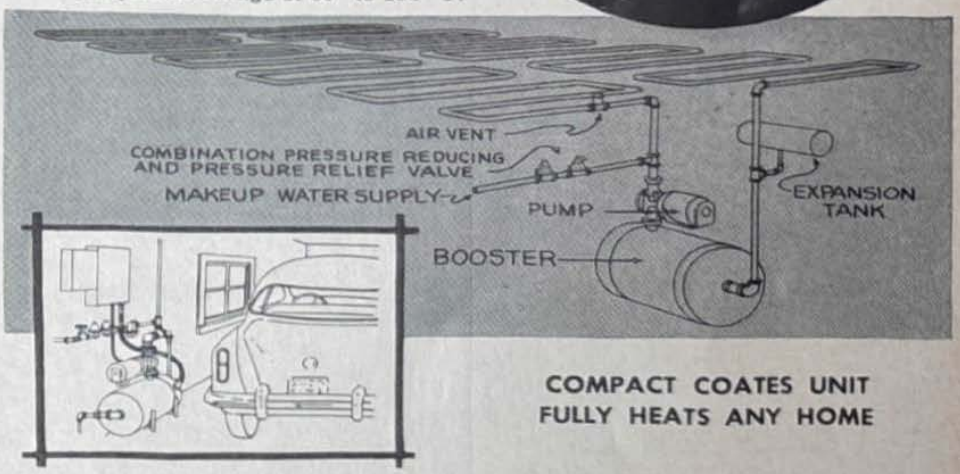
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NEWS—con't from p. 12

AIA fellowship goes to 16 West Coast architects

Sixteen or one-third of the AIA members advanced to fellowship during the national convention in Washington, D. C. are from the West Coast and Hawaii. They are, along with their chapters and fields of achievement, as follows:

Waldo Barrickman Christenson, Washington State, service to the institute.

Albert Frey, Southern California, design.

Arthur Banta Gallion, Southern California, literature.

Samuel Wood Hamill, San Diego, public service.

William Henry Harrison, Southern California design.

Douglas Honnold, Southern California, design.

Donald Beach Kirby, Northern California, service to the institute.

Charles Franklin Masten, Northern California, public service.

Charles Ormrod Matcham, Southern California, public service and service to the institute.

Frank Veach Mayo, Central Valley of California, public service.

Francis Joseph McCarthy, Northern California, public service.

John Frederic Murphy, Santa Barbara, public service.

Ulysses Floyd Rible, Southern California, design and service to the institute.

Whitney Rowland Smith, Pasadena, design.

Paul R. Williams, Southern California, public service.

George James Wimberly, Hawaii, design.

FLLW gives lecture series on California campus

Frank Lloyd Wright soon will leave for Iraq "and the first commission of my career that carries no financial limitations—giving me a certain sense of paralysis."

In Berkeley for a series of lectures at the University of California, Wright explained that in Iraq he will design an opera house and a "worldwide resort in the Garden of Eden . . . kind of a nice finish for an old American architect."

He also unveiled plans for a "Wedding Chapel in the Sky" to stand on stilts over the north garden of the Claremont Hotel in Berkeley. The 88-year-old architect said the projected $50,000 chapel will be an octagonal glass and steel structure with a peaked and gabled copper roof. Murray Lehr, owner of the Claremont, announced that construction on the Chapel is expected to start late this year.

"It will be a gay little thing," Wright commented, "with a certain sprightly spirit. Wedding bells can ring and the population can go forward. A fountain will play beneath the chapel, which will connect with the hotel lobby via an enclosed passageway."

Wright said he was "disappointed" that California had not accepted his plans for a reinforced concrete butterfly bridge for the projected second crossing of San Francisco Bay.

"The butterfly bridge," he declared, "is real 20th century architecture. But after all, we're still living in the 19th century despite the fact that we're seven years past the middle of the 20th. Reinforced concrete would make sense, instead of all that exposed steel, the life of which depends on paint.

"Architecture is becoming dehumanized," Wright asserted, "producing buildings without fragrance: lean urbanistic and sidewalk-happy structures."

Award to Seattle AGC



SAFETY FIRST—Seattle Chapter, AGC, receives plaque for having 100% of its members cooperating in national accident prevention program during past year. Allen R. Anderson (l.), who heads campaign in 1957, presents first award to Arthur Hainsworth (r.), 1956 chairman, while chapter president Gordon A. Mowat looks on.

Structural engineers elect



NEW PRESIDENT of Structural Engineers Association of Northern California, Henry J. Degenkolb (right), receives gavel from retiring president Walter L. Dickey. Other officers are J. Albert Paquette vice president; Donald A. Teixeira, secretary; and Samuel H. Clark, assistant secretary.

Construction News Bulletin

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BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

HOSPITAL ADDITION— Albany, Ore.
(Estimated cost $400,000)

Bids will be called about July by Albany General Hospital, Haldon Sexton, superintendent, 606 Elm St., Albany, for construction of a three-story 18-bed wing addition to the hospital. Plans by James L. Payne, architect, 725 S. Commercial, Salem.
SC 5-8. Previous report 1-23

● PAINTING— Astoria, Ore.

Bids will be opened 2 p.m., May 28, by 13th Coast Guard District, 618 2nd Ave., Seattle, for painting the main industrial wood storage and oil storage buildings at U.S. Coast Guard Base, Tongue Point, Astoria; Bid No. 1568. Specifications with above office. Bid bond 5%. SP 5-15

NEW HIGH SCHOOL— Beaverton, Ore.
(Estimated cost $1,500,000)

Preliminary plans by Freeman, Hayslip, Tuft & Hewlitt, architects, 2040 S.W. 3rd Ave., Portland, approved by Union High School District No. 10Jt., Washington County, D. Herbert Armstrong, superintendent, Beaverton, for the new high school on 33-acre site near the Sunset Valley school. Initial unit would house 800 sophomores and freshman by fall of 1959; includes lower class wing, central classrooms and administration section, cafeteria, gynmasium and outer shell of upper class section. With later addition of band and choral areas, stage and auditorium, and finishing of upper class section, cost would be approximately $2,000,000.

A bond election for $1,500,000 will be held May 28, to finance construction.
WB 5-2. Previous report 12-4

▲MUNICIPAL BUILDING—Beaverton, Ore.

Bid received by City of Beaverton, City Hall, Beaverton, for construction of a one-story, 18,000 sq. ft., reinforced concrete municipal building between Hall and Tucker streets on 5th St. in Beaverton. Plans by James G. Gardiner, architect, 3158 S.W. 87th Ave., Portland. Bids opened May 13. LOW BIDS: Charles S. Camplan, 2035 S.W. 58th Ave., Portland, $249,000; Gene Settergren, 1625 S.W. Woodward St., Portland, $251,586; H. G. Carl Construction Co., Box 387, Salem, $257,237.
WB 5-15. Previous report 5-1

★LIBRARY ADDITION— Bend, Ore.

Award to Van Matre Construction Co., 1474 Newport Ave., Bend, $23,249, by Deschutes County Library Board, Bend, for construction of a stack room addition to the library.
SP 5-11. Previous report 5-7

HOSPITAL ADDITION— Bend, Ore.
(Estimated cost $420,000)

Bids will be called by mid-summer by St. Charles Memorial Hospital, 700 Lava Road, Bend, for construction of a 10,000 sq. ft. 40-bed wing addition to be connected by passageway to the existing hospital, and a 2,350 sq. ft. chapel. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle. Reinforced concrete; exposed concrete exterior; flat built-up roof; steel, aluminum windows; metal stud, plaster partitions; asphalt tile, vinyl asbestos tile flooring; rigid insulation in roof; connected to existing heating unit. Chapel wing will be connected to 40-bed wing, and will accommodate of people. PD 5-15. Previous report 4-20

★GRAND PRAIRIE SCHOOL ADDITION— Corvallis, Ore.

Award announced by Linn County School District No. 14, Corvallis, for construction of a four-classroom addition to the Grand Prairie Elementary School in Corvallis. Plans by Chris Jeppsen, architect, Benton Hotel, Corvallis. Bids opened May 6. AWARD: Cutts Construction Co., 411 Tangent, Lebanon, $36,071. 2ND LOW: George U. Millet, Jr., 330 Sunset Drive, Eugene, $36,628. 3RD LOW: Hampton C. Platt, Box 27, Salem, $36,650. All figures include alternate for electric heating system and teachers' room. SP 5-14. Previous report 4-26

PHYSICS-CHEMISTRY BUILDING— Corvallis, Ore.
(Estimated cost $4,300,000)

Preliminary plans have been approved by Oregon State Board of Higher Education, Dr. John Richards, chancellor, John Hall, Eugene, for physics-chemistry building, to be constructed in three units, at Oregon State College, Corvallis. Construction funds are pending approval of the Oregon legislature. Estimated costs of the individual units are first unit, $1,820,000; second and third units, $1,250,000 each.
WB 5-2. Previous report 2-22

▲FRATERNITY HOUSE— Corvallis, Ore.

Bids opened and held under advisement by Phi Kappa Psi fraternity, Corvallis, for two-story, 9,000 sq. ft. frame fraternity house at 13th and Jackson streets. Plans by Donald B. Park, architect, 229 Governor Bldg., Portland. Bids opened May 7.
WB 5-9. Previous report 4-20

★CARBON FEED ROOM— Corvallis, Ore.

Award to Quentin Greenough, Inc., 3625 Polk St., Corvallis, $4,713, by City Council, City Hall, Corvallis, for construction of a carbon feed room at the Willamette water treatment plant in Corvallis. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis.
SP 5-10. Previous report 5-8

■ HOSPITAL ADDITION— Corvallis, Ore.

Planholders announced for construction of a second-story 21-bed addition to the one-story Good Samaritan Hospital in Corvallis, on which bids will be opened 4 p.m., May 23, by Eva M. Seen, secretary of the board, at the hospital, 27th and Harrison, Corvallis. Plans with Cleo H. Jenkins, architect, 225 S. 2nd St., Corvallis.

Planholders: Quentin Greenough, Box 868, Corvallis; Lester M. Burkett, 1615 Hall Lane, Corvallis; Grubb, Johnson & Rose, Box 127, Corvallis; Robert C. Wilson, 1020 N. 25th, Corvallis; John M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene.
SP 5-15. Previous report 5-7

DRUG STORE— Eugene, Ore.

Plans will be complete for construction of a 10,000 sq. ft. poured-concrete, drug store building in the new Safeway shopping center at 18th and Pearl in Eugene, for Dale Fisher of Eugene. Plans by Western Engineering Consultants, 110 E. 12th Ave., Eugene. Concrete tilt-up walls; glûed laminated beams; built-up roofing; concrete flooring; plaster and dry wall interior walls; air conditioning; forced air heating system, oil-fired boiler. DW 5-2

▲TRAINING CENTER FACILITIES— Eugene, Ore.

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of Army Reserve training center building, maintenance shop, driveway approaches, access road and utilities, at Eugene; ENG-45-108-57-126. Bids opened May 14.

LOW BIDS: Albert Vik & Son, Box 3056,

Eugene, $231,596 (items 1-11), $13,983 (additive items 16-21), $245,579 (total); John M. Steinmuller, Jr., 907 W. 3rd St., Eugene, $237,170, $14,648, $251,818; Waldo S. Hardie & Sons, Box 422, Eugene, $243,889, $15,258, $159,147. Government estimate, $223,241, $12,392, $235,633. SP 5-15. Previous report 5-4

★MARKET REMODELING— Gresham, Ore.

Award to Fred W. Carter Co., 6034 N.E. 60th Ave., Portland, $35,000, by Burnside One Stop Market, O. G. Stasi, owner, Gresham, for removal of a basement stairway, construction of new entrance, relocation of office and check stands and installation of new lighting fixtures at the market. SC 5-16

★INSULATING BOARD PLANT— Klamath Falls, Ore.

(Estimated cost $12,000,000)

Three additional subcontracts have been let by Robert Swan, project manager, Box 527, Klamath Falls, on projects included in construction of the insulating board plant near Klamath Falls, according to H. R. Stokes, project engineer for Johns-Manville Corp., 22 E. 40th St., New York City. General contractor is George A. Fuller Co., 3100 W. 8th St., Los Angeles. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. AWARD: Link-Belt Co., 3405 6th Ave. S., Seattle, for erecting coal handling equipment for the boiler house. Work includes construction of track hopper and the hopper conveyor over to a bucket elevator to carry coal up into boiler house coal bunkers. AWARD: Erie City Iron Works, Erie City, Pa., for installation of two steam boilers in boiler house to serve the entire project. Superintendent of work will be Frank Hodgins of Erie City. AWARD: Steel Maintenance Co., 2035 N.E. Columbia Blvd., Portland, for painting of the 100,000-gallon elevated tank recently completed. Red lead paint will be applied to the four pipe columns and the eliptical tank and finish will be aluminum paint.

Another subcontract will be awarded soon for painting of the wood handling conveyor system between the wood yard and pulp operation and the asphalt storage bin; work has just recently been completed. Crews are returning this week from Bethlehem Pacific Coast Steel Co. of San Francisco to erect structural steel for the pulp building. This fill be followed by erection of structural steel for the administrative office building on the highway side of the four main buildings.

ZZ 5-14. Previous report 4-23

MOTEL ADDITION— Klamath Falls, Ore.

Morrison & Howard, architects, Williams Bldg., Klamath Falls, have been retained by Keith Cobo, owner of City City Lodge, 11 Main St., Klamath Falls, to prepare plans and specifications for a two-story 148'x130', 26-unit addition to the City City Lodge motel. Each unit will cost approximately $6,500. Addition will have frame and brick exterior on reinforced concrete footings and foundation. ZZ 5-2

★BUILDING REMODELING— Klamath Falls, Ore.

Contract negotiated with DeWitt & Birch, 214 Martin, Klamath Falls, by William L. Bullard, owner, 1045 Auburn St., Klamath Falls, for remodeling a 100'x100' brick and concrete building into an apartment building, to be known as the Ewauna Apartments, at 219 S. 11th St. in Klamath Falls. Plans by Morrison & Howard, architects, Williams Bldg., Klamath Falls. Sub-contracts have been let to the following: Shaffer Electric, 3870 S. 6th, for electrical; Klamath Plumbing Co., 122 Riverside, for plumbing; Clark O. Kennon Decorating Co., 904 Kane St., for interior painting; Lester D. Chasten, 4376 S. 6th St., for laying of carpeting, linoleum, rubber tile and asphalt tile; Lew Hatfield, 815 Washburn Way, for exterior brick facing. All of Klamath Falls.

Building is of reinforced concrete footings and foundations; frame and concrete structure, brick facing. Work includes fan vents neers, Seattle district, 4735 E. Marginal Way, dryers in two utility rooms; electric wall heat units in each apartment; new entrance way, service entrance; construction of wood, steel and concrete stairways from ground floor to fourth floor attic storage room; changing partitions. ZZ 5-10

GRANDSTAND— Lakeview, Ore

Members of the Lakeview Lions Club are sponsoring construction of a 32' long grandstand at the site of the Lakeview municipal swimming pool, according to Stanley Tooke, swimming pool manager, Lakeview. Some subcontracts will be negotiated but most of the work will be done by voluntaer labor. ZZ 5-10

★FLOOR ALTERATIONS— Medford, Ore.

Award to Stanley Parrish, Goldy Bldg., Medford, $1,885, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for alterations in the Federal Office Bldg., Riverside Ave. N. and 6th St. E., Medford; Proj. DC-10-713.

PD 5-10. Previous report 5-4

MEDICAL OFFICE BUILDING— Medford, Ore.

(Estimated cost $100,000)

Construction underway by William Brooks, Medford, for a 6,000 sq. ft. light weight concrete block medical office building on E. Main St. in Medford, for Professional Properties, Inc. Completion expected by September. SC 5-10

★ROOFING, FLASHING REPAIRS— Portland, Ore.

Award to Pioneer Roofing Co., 16916 S.E. Main, Portland, $3,697, by 13th Naval District, room 100, Bldg. 232, U. S. Naval Station, Seattle, for repairing blisters and fabric and metal flashing and recoating training center building, shop and garage building and pier deck house at U. S. Naval and Marine Corps Reserve Training Center, Portland; Spec. No. 6709/57.

PD 5-9. Previous report 5-3

★JAIL RENOVATION— Portland, Ore.

Award to David Enyeart and Vern Frost, 4800 S.E. 11th Ave., Portland, $13,541, by Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for removing of cell blocks on seventh floor of courthouse and installing structural steel.

WB 5-10. Previous report 4-20

CLASSROOM BUILDING (Steel Frame)— Portland, Ore.

(Estimated cost $1,170,000)

Additional description on furnishing, fabricating, erecting and painting all structural steel, including base plates, for the southeast unit of State Hall, five-story, 100'x110', requiring about 400 tons of steel, on which bids will be opened 2 p. m., June 6, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at room 119 Old Main Bldg., Portland State College, 1620 S.W. Park Ave., Portland. Plans available May 20 from Lawrence, Tucker & Wallman, architects, 912 Failing Bldg., Portland. $25 deposit. Certified check or bid bond 10%.

Building will be adjacent to recently completed classroom building at S.W. Mill Ave. and Broadway. Bids for completion of the building will be called in late summer or eary fall. Basement floor will contain heating plant for entire college. The steel frame structure will have glass and minimum grid exterior; concrete floors on steel decking; metal lathe and plaster partitions; some masonry block partitions; suspended ceilings. See PCD 5-11 under STRUCTURAL STEEL WORK.

WB 5-14. Previous report 9-15

●ZOO BUILDING— Portland, Ore.

Bids to be opened 2 p. m., P.S.T., June 5, by Leonard W. Rayner, city purchasing agent, 208 City Hall, Portland, for construction of giraffe and okapi barn, Contract Group 6 as part of the development of Portland City Zoological Gardens in Hoyt Park, for the Bureau of Parks. Plans in room 208, City Hall. $10 deposit. Certified check or bid bond 10%. Plans by Lawrence, Tucker & Wallmann, architects, Failing Bldg., Portland.

Barn will be 50'x55'; lightweight aggregate block; plate glass windows; built-up roof on glued laminated beams and wood sheathing; metal window trim; corrugated metal on one wall; wood partitions; stainless steel drinking fountains; floor surfacing of special volcanic cinder on interior pens and exterior paddocks. WB 5-17

★UNION BUILDING— Portland, Ore.

Award to Teeples-Thatcher Co., 14205 N.E. Cully Blvd., Portland, $109,385, by International Woodworkers Union of Portland for construction of a one-story masonry and frame office building on N. Lombard near Interstate Ave. Other low bids were Norman Builders, 2805 S.W. 3rd, Portland, $109,764; Beebe Construction Co., 2134 N. Flint, Portland, $113,534. Plans by John Jensen, architect, 2266 N.W. Lovejoy, Portland.

WB 5-15. Previous report 5-1

●■ TELEPHONE BUILDING ADDITION— Roseburg, Ore.

Bids will be opened 2 p.m., May 21 in the office of Charles M. Twelves, chief engineer for Pacific Telephone & Telegraph Co. in Oregon, room 406, Lincoln Bldg., Portland, for construction of a 16'x48' reinforced concrete second story addition with ceramic tile exterior finish to the telephone company central office building at 915 S.E. Mosher Ave. in Roseburg. Plans with Church, Newberry & Rohr, architects, Builders Exchange Bldg., Portland.

Planholders: H. Barnhard, 722 Dakota Ave., Medford; Wiley Co., 236 E. Main St., Ashland; Waldo S. Hardie & Son, 858 Pearl Ave., Eugene; J. M. Steinmuller, Jr., 907 3rd Ave. W., Eugene; Albert Vik & Son, 348 Madison St., Eugene; Todd Building Co., Box 27, Roseburg; Gale M. Roberts, 338 11th Ave. W., Eugene. SC 5-14

APARTMENTS— Salem, Ore.

(Estimated cost $100,000)

Plans announced by M. T. Haverland, contractor and owner, 910 Menlo Drive, Salem, for construction of five one-story apartment buildings, each containing four apartments, at 18th and A streets in Salem. Construction of the first eight apartments will start in mid-May and are estimated at $34,000. CP 5-2

▲PUBLIC ADDRESS SYSTEM—Salem, Ore.

Bids received by Department of Finance & Administration, Salem, for furnishing and installing a public address system, including 32 microphones, in the Senate Chambers of the Capitol Bldg. in Salem; Inv. No. D-1881-57. Bids opened May 6. LOW BID: Manchester Chandler Co., 2915 N.E. Alberta, Portland, $5,827. Contract will be awarded when the Senate makes funds available.

CP 5-14. Previous report 4-26

SALEM HEIGHTS SCHOOL ADDITION— Salem, Ore.

(Estimated cost $160,000)

Plans underway by John Grimmer Groom, architect, 2390 S. 12th St., Salem, for construction of a four-classroom and multi-purpose room 14,000 sq. ft. addition to the Salem Heights Elementary School at 3495 Liberty Road in Salem, for Salem School District No. 24J, Charles Schmidt, superintendent, 1309 Ferry St., Salem. Project will include a new boiler room and new heating system for the entire school. CP 5-2

AUTO SHOW ROOM— Salem, Ore.

Plans announced by Continental Motors, Richard Don, proprietor, 3040 Liberty Road, Salem, for construction of a show room and shop building for handling of foreign cars, to be located on a 150'x240' tract at S. Commercial St. and Browning Ave. in Salem. Architects will be retained soon. CP 5-2

OFFICE BUILDING— Salem, Ore.

(Estimated cost $350,000)

Plans announced by State Finance Co., R. J. Schmidt, real estate department manager, 167 S. High St., Salem, for construction of a three-story office building in the 1100 block of Chemeketa St. in Salem. Plans underway by Ernest Weber, architect, 144 Pacific Bldg., Salem. It is anticipated that construction will start this summer. Curtain wall type structure, either porcelain prefabricated panels or Mo-Sai

decorative concrete panels; 21,000 sq. ft. office space in addition to lobby and utility core; luminous ceilings, acoustical tile; fixed sash; air conditioning system, heating, ventilating; self-service high-speed automatic elevators; off-street parking for 40 cars.
CP 5-4

SALEM MEMORIAL HOSPITAL— Salem, Ore.
(Estimated cost $500,000)
Bids will be called about June by Salem Memorial Hospital, Irwin Wendel, hospital administrato, 665 S. Winter St., Salem, for construction of a three-story concrete central service wing addition to the hospital. Plans by James L. Payne, architect, and Fred Kouse, associate architect, 725 S. Commercial, Salem. SC 5-8. Previous report 3-20

BUILDING FLOOR COMPLETION— Salem, Ore.
Bids will be called soon by State Department of Finance, 12th and Ferry streets, Salem, for completion of the second floor of the building, an area of about 10,000 sq. ft. Plans by James L. Payne, architect, 725 S. Commercial St., Salem. SC 5-8

★**WAREHOUSE— Salem, Ore.**
Award to Viesko & Post, 2250 Strong Road, Salem, $350,000, by Paulus Bros. Packing Co., L. H. Hogue, president, 14th and Oxford streets, Salem, for construction of 330'x360' warehouse building adjacent to the present building at the above address. Reinforced concrete columns; concrete block exterior; concrete block span row beams; trussed timber roof; asphalt paving on floors. Completion time August 1, 1957.
CP 5-10

●**CORRECTIONAL INSTITUTION— Salem, Ore.**
(Estimated cost $6,000,000)
Bids to be opened 2 p.m., P.S.T., May 28, by Oregon State Board of Control in room 124, Capitol Bldg., Salem, for construction of the Oregon State Correctional Institution boiler house and warehouse. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor, Portland. $25 deposit. Certified check or bid bond 10%.
Boiler House—46'x103' with 29' clearance; concrete slab floor and roof; composition asbestos roofing; steel sash; hollow metal steel and steel rolling type doors. Warehouse—90'x102', 11' clearance; reinforced concrete; concrete roof, asbestos roofing; steel sash; hollow metal steel and steel rolling type doors.
Mechanical contractors are offered the option of acting as general contractor as the mechanical is the largest portion of the work. DC 5-11. Previous report 3-2

■**LIBERTY SCHOOL ADDITION— Salem, Ore.**
Planholders announced for construction of a frame six-classroom addition to the Liberty Elementary School at 3810 Liberty Road in Salem, on which bids will be opened May 23 by Salem School District No. 24J, Charles Schmidt, superintendent, 1309 Ferry St., Salem. Plans with James L. Payne, architect, 725 S. Commercial, Salem.
Planholders: E. E. Batterman, 147 N. Commercial St.; H. G. Carl Construction Co., 1210 S. 22nd St.; Robert Morrow, 3365 S. Commercial St.; Mills Construction Co., 802 Kingwood Drive; R. L. Forster & Son, Box 612; Bob Randolph, 3815 Welty Ave.; Hampton C. Platt, 3805 Thorndale Road; C. A. Lantz, 1053 S. Commercial St.; C. W. & Willis A. Hill, Box 682; Grubb, Johnson & Rose, Box 127, Corvallis. All of Salem unless noted.
CP 5-15. Previous report 5-1

●**SALEM HEIGHTS SCHOOL ADDITION— Salem, Ore.**
Bids will be opened June 4 by Salem School District No. 24J, Charles Schmidt, superintendent, 1309 Ferry St., Salem, for construction of a four-classroom and multipurpose room 14,000 sq. ft. addition to the Salem Heights Elementary School at 3495 Liberty Road in Salem. Plans with John Grimmer Groom, architect, 2390 S. 12th St., Salem. CP 5-15. Previous report 5-2

RESTAURANT— Springfield, Ore.
(Estimated cost $75,000)
Construction underway by Smith & Ingram, contractors, 128 Sunshine Acres Drive, Eugene, for construction of a concrete block and timber restaurant, to be known as the Timber Topper, on 2nd St. in Springfield, for the Olsen-Quick Co., owner, 1416 7th Ave. W., Eugene. Building will be leased to Wilbur Houmes and James Lewis. Structure will have a partial second story with the top portion for storage. Covered canopy will provide parking for 15 cars. SC 5-7

●**SCHOOL—. Warm Springs, Ore**
Bids to be opened 2 p.m., May 27, by Edward A. Poynton, chief of the branch of Plan Design and Construction, Bureau of Indian Affairs, Box 1777, Albuquerque, N.M., for construction of a four-classroom school at the Warm Springs Indian Agency, approximately 16 mi. west of Madras, Ore. Plans, without deposit, available at New Mexico address.
One-story, 7,500 sq. ft.; concrete slab on ground, concrete and brick veneer walls, glued laminated beams, flat, built-up roof, toilet facilities in each room, plastered walls, acoustical tile ceiling, forced hot water system with oil fired boiler and coils for radiant heat in concrete slab. Persons desiring to view the site may contact Jasper Elliot, superintendent of the Warm Springs Agency. DC 5-14

WASHINGTON

★**ARMORY PAINTING— Aberdeen, Wash.**
Award to Springer Painting Co., N. 722 Monroe, Spokane, $1,700, by Department of General Administration, Lloyd Nelson, acting director, General Administration Bldg., Olympia, for exterior painting work at the National Guard Armory, 111 E. 3rd St., Aberdeen. Bids opened April 23.
DE 5-10. Previous report 4-6

★**TRINITY LUTHERAN CHURCH— Bellingham, Wash.**
Award to Ericksen & Weden, 1611 Northwest Road, Bellingham, $96,000 (approximate), by Trinity Lutheran Church, 2415 Dean, Bellingham, for construction of a one-story frame church. Plans by Grant, Copeland & Chervanak, architects, 420 E. Howell, Seattle.
PD 5-10. Preivous report 4-12

■**HOSPITAL ADDITION— Bellingham, Wash.**
Planholders announced for construction of two reinforced concrete additions to St. Luke's General Hospital and for remodeling work in the existing building, on which bids will be opened 2 p.m., May 22, by O. H. Overland, hospital administrator, at the hospital, Jersey and Chestnut streets, Bellingham. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle.
Planholders — GENERAL: Cawdrey & Vemo, 3601 Fremont Ave., Seattle; Eiford Co., Box 357, Bellingham; Kuney-Johnson, 1266 Mercer St., Seattle; James I. Barnes, Central Bldg., Seattle; Odegard Construction Co., Box 735, Everett; Walker & Florence, 317 E. Champion, Bellingham; Newland Construction Co., Box 230, Everett. MECHANICAL: A. J. Blythe, 1313 Railroad Ave., Bellingham; Urban, Inc., 2716 A St., Tacoma; Haskell Plumbing & Heating, 1509 Cornwall, Bellingham; Diamond B Plumbing & Heating, 915 Cornwall, Bellingham. ELECTRICAL: Adrian Fuller, 2312 Elizabeth, Bellingham; H. E. Mills Electric, 1511 Cornwall, Bellingham; Carl A. Johnson, 107 Grand, Bellingham. PD 5-11. Previous report 4-24

▲**METHODIST CHURCH— Bothell, Wash.**
Bids received in the office of Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, by Bothell First Methodist Church, J. Warne Sanders, pastor, for construction of a two-level 12,000 sq. ft. church plant at Bothell. Bids opened May 10.
LOW BIDS: W. F. Parsell, 11323 E. Riverside Drive, Bothell, $114,310; C B S Construction Co., 11115 7th Ave. N.W., Seattle, $119,700; Livers Bros., 3223 E. 123rd, Seattle, $123,864. SP 5-11. Previous report 5-3

★**HOUSES, WAREHOUSE— Bridgeport, Wash.**
Award to Gano & Hand, Brewster, $42,939, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of two houses and one warehouse, Brewster Flat Unit, Foster Creek Division, Chief Joseph Dam Project, Wash.; Spec. No. 100C-283. Bids which were opened April 9 at Bridgeport were held under advisement. SP 5-10. Previous report 4-5

★**RESIDENCE REPAIR— Bridgeport, Wash.**
Award to Yager Construction Co., Inc., Box 595, Ephrata, $2,730, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for repair of fire damage to a residence at Chief Joseph Dam, Bridgeport; CIVENG-45-108-57-67.
SP 5-10. Previous report 5-1

●**HIGH SCHOOL— Camas, Wash.**
Additional description given of 70,000 sq. ft. concrete and masonry high school, adjoining new physical education and music building. Bids will be opened 4 p.m., May 28, by School District No. 117, Marian E. Beecher, clerk, Superintendent's Office, Camas. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit.
School includes 16 classrooms, 3 science labs, 2 home economics room, 3 commercial classrooms, 2 shops, drafting room, arts and crafts room, multipurpose room with kitchen and stage, library and study hall and teachers' health and administration rooms. Concrete and masonry exterior walls; frame interior partitions; concrete slab floor on grade; asphalt tile flooring; built-up roof; acoustical ceilings; plaster wall finish; steam heating from existing plant; fluorescent lighting. WB 5-4. Previous report 4-27

CHURCH ADDITION— Camas, Wash.
(Estimated cost $110,000)
Plans announced by St. John's Presbyterian Church, N.E. 12th Ave. and Birch St., Camas, for construction of an 8,740 sq. ft. addition on the east and north of the church at Camas. Fund raising campaign underway under the direction of Richard E. Lawton. SC 5-10

★**MAINTENANCE SHOP, UTILITIES, PAVING— Camp Hanford, Wash.**
Award to Thompson Construction Co., 3319 10th Ave. W., Kennewick, $171,613, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of a signal maintenance shop and appurtenant utilities, facilities and paving at Camp Hanford; ENG-45-164-57-34.
SC 5-11. Previous report 4-24

NIKE FACILITY MODIFICATIONS, IMPROVEMENTS— Camp Hanford, Wash.
The Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, is unable to establish bid opening date due to lack of current wage rates, for modifications and improvements of Nike facilities at Camp Hanford; ENG-45-164-57-39. Date will be established by addendum upon receipt of rates from Department of Labor. SP 5-15. Previous report 4-17

CITY HALL ALTERATION— Centralia, Wash.
(Estimated cost $15,000 to $20,000)
Plans underway by Clyde W. Faithful, architect, Masonic Bldg., Centralia, for remodeling the city hall, involving enlargement of police department's quarters to include the first floor space formerly occupied by the fire department, an addition of a room to the city engineer's office, some changes in the main office area and new commission chambers at Centralia. Work will be done this summer. SC 5-2

SWIMMING POOL— Clarkston, Wash.
(Estimated cost $105,000)
Bids will be opened about July 1 by City Council, City Hall, Clarkston, for construc-

tion of a 60'x135' concrete swimming pool, including a masonry bathhouse and wading pool, at 2nd and Chestnut, Beachview Park, Clarkston. Plans by John McInerny, Colfax.

Pool will be one-story and will have poured concrete walls, concrete slab floor and concrete stairways. Bathhouse will have exposed masonry partitions and mill trussed roof. Gas fired heating system.

SP 5-15. Previous report 5-8

● RESIDENCES, UTILITIES— Ephrata, Wash.

Bids will be opened 10 a. m., June 11, by Bureau of Reclamation, Box 368, Ephrata, for construction of operation and maintenance housing, Low Gap Ditchrider residences in Block 85, about 25 mi. northwest of Othello, Grant County, Wash.; Spec. No. 117C-442. Specifications with above office. Bid bond 10%.

Work includes 1,200 c.y. earthwork for grading and leveling the site and finish grading for construction of buildings and for installation of road culverts and utilities systems; construction of two-bedroom residences with concrete basements; one two-car garage; pumphouse; concrete sidewalks; pneumatic water system for pumphouse; furnishing and installing road culverts; gravel surfacing; utilities systems including electrical distribution system for the pumphouse and two-car garage, water supply piping from pumphouse to residences, and sewerage disposal system with septic tank, drop manhole, distribution box and drain field.

SP 5-11

★ SUPERMARKET— Everett, Wash.

Award to Hainesworth Construction, 3028 Western, Seattle, no figure available, by Tradewell Stores, Inc., 4103 2nd Ave. S., Seattle, for construction of a 140'x140' supermarket on Highway 99, just south of Everett. Plans by Rushmore & Woodman, architects, J. S. Ditty Bldg., 602 104th St., Bellevue. PD 5-14. Previous report 4-27

MUSIC BUILDING— Everett, Wash.

Following is description for construction of a music building at North Junior High School at Rainier Ave. and 25th St. in Everett, on which bids will be opened 8 p. m., May 20, by Everett School District No. 2, Oscar Johnson, secretary, Everett High School, Everett. Plans with John C. Bryant, Jr., architect, and Robert Butterfield, associate, 208 Sager Bldg., Everett.

One-story; no basement; 3,360 sq. ft.; reinforced concrete footings and foundation; block walls; concrete slab floors; glued laminated roof; frame partitions; aluminum windows; multicolor enamel exterior wall finish, resin emulsion paint interior; lead in oil exterior trim, stain and varnish trim; drywall and prefinished forest board partitions; vinyl asbestos flooring; drywall, exposed decking ceilings; sound absorption insulation in walls; unit vents and convectors supplied by existing school plant.

SP 5-15. Previous report 5-9

▲ AIRMEN'S DINING HALL— Fairchild AFB, Wash.

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of an airmen's dining hall at Fairchild AFB; ENG-45-108-57-123. Bids opened May 9.

LOW BIDS: Purvis Construction Co., 5019 E. Sprague Ave., Yardley, $334,489; Sceva Construction Co., N. 2928 Madelia, Spokane, $344,455; Phil McInnis & Henry George & Sons, Hutton Bldg., Spokane, $346,713.

SP 5-11. Previous report 5-2

● FURNACE, DUCT CLEANING— Fort Lewis, Wash.

Bids will be opened 1:15 p. m., June 5, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for furnace and duct cleaning in converted family quarters at Fort Lewis; AVI-45-016-57-192. Specifications with above office. Bid bond 20%.

SP 5-10

● MESS HALL EQUIPMENT— Fort Lewis, Wash.

Bids to be opened 1 p. m., P.S.T., June 6, by Department of Army, purchasing and contracting office, Fort Lewis, for installation of mess hall equipment at Northeast Fort Lewis; Inv. No. AVI-45-016-57-193. Plans with above office. Bid bond 20%.

Equipment—Partitions, counters, serving counter, cultlery sink, tray slide, equipment stands in each of three buildings; cement asbestos board covering on partitions in 11 buildings; curtain wall and frozen food cabinets in 14 buildings; 14 lavatories; electric panel outlets and wiring, drains and waste piping.

DM 5-11

HEATING SYSTEM CONVERSION— Fort Lewis, Wash.

Bid opening of May 29 postponed until further notice by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for conversion of coal, hand-fired and stoker-fired heating systems to oil firing at Fort Lewis; AVI-45-016-57-185.

SP 5-11. Previous report 5-3

GARBAGE FACILITIES—Fort Lewis, Wash.

Bid opening of May 14 postponed until further notice by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for construction of garbage can washing facilities at the mess halls at Fort Lewis; AVI-45-016-57-184.

SP 5-11. Previous report 5-1

★ REMODEL BUILDING— Fort Steilacoom, Wash.

Award to Bona Fide Builders, Inc., 2430 E. 11th, Tacoma, $10,423 (includes $10,038 basic, $160 alt. for paint and $225 alt. for vinyl flooring), by G. Lee Sandritter, director, Department of Institutions, Olympia, for remodeling the animal sections of the Research Bldg. at Western State Hospital at Fort Steilacoom.

DE 5-10. Previous report 5-3

★ MAINTENANCE HEADQUARTERS— Goldendale, Wash.

Award announced by Klickitat County PUD No. 1, L. E. Darland, president of board of commissioners, Goldendale, for construction of a 73'x108' lightweight concrete block maintenance headquarters building at Goldendale. Plans by Charles Gilman Davis, architect, 2035 S.W. 58th Ave., Portland. Bids opened May 10. Low bid of $44,837 submitted by Nieman Construction Co., Vancouver, was irregular. AWARD: Sterner Construction Co., 13845 S.E. Rhine, Portland, $46,285. 3RD LOW: Mid-State Construction Co., 810 Union, The Dalles, $46,633. 4TH LOW: Leingang Construction Co., 3804 Summitview, Yakima, $47,189.

SP 5-14. Previous report 5-1

LIBRARY— Grandview, Wash.
(Estimated cost $35,000)

Construction underway by W. W. Nettleship, general contractor, 408 S. 26th Ave., Yakima, for a one-story library building on Division St. in Grandview, for Grandview Community Library, Ray Whitcomb, chairman, Grandview.

Poured concrete footings and foundation; block walls; concrete floors; glued laminated beams; built-up roofing; frame partitions; concrete stairway to entrance; aluminum windows; paint and polished glass exterior wall finish, plaster and paint interior; asphalt tile flooring; acoustical ceilings; forced air heating system, oil fuel.

IG 5-14. Previous report 4-26

★ BUS GARAGE— Kent, Wash.

Award to Noel Construction Co., 11014 Main St., Bellevue, $54,585, by Kent School District No. 415, Kent, for construction of a 3,000 sq. ft. school bus garage at Kent. Plans by Waldron & Dietz, architect, 215 8th N., Seattle. SP 5-11. Previous report 4-24

STORE REMODELING— Kirkland, Wash.

Preliminary drawings are underway by Cummings & Martenson, architects, 250 Market St., Kirkland, for remodeling 80,000 sq. ft. of store building at 120 Commercial St., Kirkland. Construction is expected to be underway this summer. PD 5-10

● LIFEBOAT STATION REPAIRS— LaPush, Wash.

Bids will be opened 2 p. m., May 28, by 13th Coast Guard District, 618 2nd Av Seattle, for sheerboom and launchway pairs, installation of gravity fuel oil syste and revision of boathouse wiring at Quil yute River Lifeboat Station at LaPush; I No. FS-1587. Specifications with above o fice. Bid bond 5%.

SP 5-

ELEMENTARY SCHOOL—Littlerock, Wa

Working drawings are underway by E. Mills, architect, 308 S. Tacoma, Tacoma, f construction of a one-story seven-classroo and multipurpose room elementary scho cluster plan, about 10 mi. south of Olym near Rochester, by Littlerock School Distri No. 332, Richard Burrell, principal. PD 5-

BANK— Lynnwood, Wash.
(Estimated cost $150,000)

Construction underway by Sanford Wrigh Clark Bldg., Everett, for an 11,000 sq. f masonry and frame branch bank buildin at Lynnwood, for First National Bank o Everett, 1604 Hewitt, Everett. Plans by Harold W. Hall & Associates, architects Commerce Bldg., Everett. Building wil have drive-in window, off-street parking night depository and safety deposit facilities Exterior of building to be brick and glass banking fixtures by Kellogg & Son, 48 Airport Way, Seattle, including new style teller's cage; recessed slim line lighting fixtures; mechanical ventilation.

SP 5-1

DENTAL CLINIC— Mount Vernon, Wash.
(Estimated cost $30,000)

Construction underway by Gunderson Construction Co., Route 2, Sedro Woolley, on a one-story 3,000 sq. ft. dental clinic on the corner of Fairhaven and Highway 99, Mount Vernon, for Dr. Floyd Hamstrom, Burlington. Plans by Donald M. Wilson, architect, 605 Bell, Seattle. Project involves: slab-on-grade; frame, pumice block flat built-up roof; plaster partitions; acoustical ceilings, rigid insulation; vinyl asbestos tile flooring; gas-fired hot air heat. PD 5-1

● SCHOOL ALTERATIONS—Olympia, Wash.

Bids to be opened 2 p. m., May 29, by Olympia School District No. 1, Virgil L. Adams, secretary, 116 N. Columbia, Olympia, for alterations to existing classroom and gymnasium buildings for Washington Junior High School, Eastside St. and Legion Way, Olympia. Plans with Wohleb & Wohleb & Associates, architects and engineers, 715 S. Washington, Olympia. $50 deposit. Certified check, cashier's check or bid bond 5%.

DM 5-1

● TELEPHONE BUILDING—Olympia, Wash.
(Estimated cost $850,000)

Bids will be opened 4 p. m., May 21, in the office of N. G. Berger, building engineer for Pacific Telephone and Telegraph Co., 1200 3rd, Seattle, for construction of a new dial equipment building at 714 S. Washington, Olympia. Plans by Decker, Christenson & Kitchin, architects and engineers, 4th Ave. Bldg., Seattle. Select list of bidders.

One-story, basement; reinforced concrete and brick; 115'x62'; minimum window space; designed to carry five additional stories and a lateral extension which will be added at a later date. Complete new power plant will be installed as part of the project. Completion by late fall.

Planholders: A. J. Phillips Construction Co., 721 Legion Way, Olympia; E. Goetting & Son, 2921 S. J St., Tacoma; Anderson Construction Co., 115 S. 9th, Tacoma; Ketner Bros., Inc., 419 St. Helens, Tacoma; John H. Sellen Construction Co., Inc., 228 9th N., Seattle; R. L. Absher Construction Co., 110 25th, Puyallup; Quality Builders, Box 150, Tacoma; A. G. Homann, Lacey. DM 5-1

SANCTUARY— Opportunity, Wash.

Preliminary plans nearing completion according to Spokane Valley Church of the Nazarene, Rev. Gene Hoskinson, pastor, 1001 Broadway, Opportunity, for construction of a new sanctuary for the church.

SC 5-10. Previous report 11-1

● CHURCH— Othello, Wash.

Bids to be opened 8 p. m., May 23, by First Presbyterian Church directors, Third and Larch, Othello, for construction of the

first unit of a new church. Plans with Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. $25 deposit.

One-story, 5,000 sq. ft.; cavity masonry walls and frame walls; slab-on-grade; mahogany plywood, gypsum board interior finish; aluminum sash; incandescent and fluorescent lighting; electric radiant heat in slab. DC 5-15. Previous report 1-10

●■ FLIGHT SHELTER MODIFICATION— Paine AFB, Wash.

Bids will be opened 2 p.m., May 28, by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for modification of flight shelters A, B, C and D by replacing deteriorated members, installing roofs over entrances, installing insulation and gypsum wallboard on walls and ceilings, installing floor covering to replace deteriorated floors and replacing wornout space heaters, at Paine AFB; Inv. No. 45-602-57-56. Plans with above office. Bid bond 20%. The Installations Engineer will be available to show prospective bidders the job site and to answer technical questions regarding the project between 1 p. m.and 4 p.m. on Mondays, Wednesdyays and Fridays.

Planholders: Solie Builders, 7514 Juniper Drive, Route 4, Everett; Sanford Wright, 302 Clark Bldg., Everett; Roy E. Rudd, Box 835, Everett; Metropolitan Construction Co., 1008 Broadway, Everett; Lindbrook Construction Co., 11738 35th N.E., Seattle; Linton Construction Co., Box 127, Lynnwood; D & A Construction Co., 1113 N. 100th, Seattle; Frank Damson, Route 2, Hillside Road, Everett; General Industries, Inc., 106 Main St., Edmonds; Jack Fast, 22 Etruria St., Seattle; Burfitt Construction Co., 1445 W. 56th, Seattle; Odegard Construction Co., 3302 Hill St., Everett; Shaffer Construction Co., 3409 Everett, Box 804, Everett; Rasmussen & Funk Co., Box 7061, Seattle; Gill Consruction Co., 5117 25th N.E., Seattle; E. E. Rasmussen, 7720 E. Greenlake Way, Seattle; Jasper S. Fairchild, 22316 5th N.E., Seattle.
HH 5-10

▲DINING HALL MODIFICATION— Paine AFB, Wash.

Bids received by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for modification of airmen's dining hall, Bldg. 303, at the base; Inv. No. 45-602-57-57-48. Bids opened May 9. LOW BIDS: Sanford Wright, 302 Clark Bldg., Everett, $19,887; Metropolitan Builders, 1008 Broadway, Everett, $19,995; D & A Construction Co., 1113 N. 100th, Seattle, $21,800.
HH 5-11. Previous report 4-16

●■ GARAGE BUILDING REPAIR— Paine AFB, Wash.

Bids will be opened 2 p.m., June 11, by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for repair of garage Bldg. 456 by replacing existing doors, providing automotive exhaust system, modifying lighting and wiring and modifying existing heating ducts and registers, at the base; Inv. No. 45-602-57-59. Specifications with above office. Bid bond 20%.

Planholders: Don L. Cooney, Inc., 300 Spokane St., Seattle; Star Iron & Machine Works, 435 E. 11th, Tacoma; F. T. Crowe & Co., 329 2nd West, Seattle; Angel & Nelson, 2010 Hewitt, Everett; Roy E. Rudd, Box 835, Everett; Sanford Wright, 302 Clark Bldg., Everett; Fryer-Knowles, 1718 Broadway, Seattle; Overhead Door Co. of Seattle, 3409 Stone Way, Seattle; General Industries, 106 Main St., Edmonds; Lindbrook Construction Co., 11738 35th N.E., Seattle; Metropolitan Builders, 1008 Broadway, Everett. HH 5-14

●■ OQ BUILDING MODIFICATION— Paine AFB, Wash.

Bids will be opened 2:30 p.m., June 6, by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for modification of six existing rooms in OQ Building No. 702 for V.I.P. quarters at Paine AFB; Inv. No. 45-602-57-58. Plans with above office. Bid bond 20%. Installations Engineer will be available to show prospective bidders the job site between 1 p.m. and 4 p.m. on Mondays, Wednesdays and Fridays.

Planholders: H. Halvorson, Inc., 20054 Pacific Highway S., Seattle; Howard S. Wright Co., Box 3764, Seattle; Solie Builders, 7514 Juniper Drive, Route 4, Everett; Sanford Wright, 302 Clark Bldg., Everett; Roy E. Rudd, Box 835, Everett; Metropolitan Construction Co., 1008 Broadway, Everett; Lindbrook Construction Co., 11738 35th N.E., Seattle; Linton Construction Co., Box 127, Lynnwood; D & A Construction Co., 1113 N. 100th, Seattle; Frank Damson, Route 2, Hillside Road, Everett; General Industries, Inc., 106 Main St., Edmonds; Jack Fast, 22 Etruria St., Seattle; Odegard Construction Co., 3302 Hill St., Everett; Rasmussen & Funk Co., Box 7061, Seattle; Gill Construction Co., 5117 25th N.E., Seattle; E. E. Rasmussen, 7720 E. Greenlake Way, Seattle; Jasper S. Fairchild, 22316 5th N.E., Seattle.

Area to be modified is 1,692 sq. ft.; partitions to be covered with ½" plasterboard with cedar paneling; ceramic tile floor with tile up 5' on walls in latrine; asphalt tile over existing fir flooring; fluorescent indirect lighting fixtures. HH 5-11

●■ DORMITORY MODIFICATION— Paine AFB, Wash.

Bids will be opened 2 p.m., June 6, by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for modification of airmen's dormitory building No. 335 to provide two-man rooms at Paine AFB; Inv. No. 45-602-57-57. Specifications with above office. Bid bnod 20%. Installation Engineer will be available to show prospective bidders the job site between 1 p.m. and 4 p.m. on Mondays, Wednesdays and Fridays.

Planholders: H. Halvorson, Inc., 20054 Pacific Highway S., Seattle; Howard S. Wright Co., Box 3764, Seattle; Solie Builders, 7514 Juniper Drive, Route 4, Everett; Sanford Wright, 302 Clark Bldg., Everett; Roy E. Rudd, Box 835, Everett; Metropolitan Construction Co., 1008 Broadway, Everett; Lindbrook Construction Co., 11738 35th N.E., Seattle; Linton Construction Co., Box 127, Lynnwood; D & A Construction Co., 113 N. 100th, Seattle; Frank Damson, Route 2, Hillside Road, Everett; General Industries, Inc., 106 Main St., Edmonds; Jack Fast, 22 Etruria St., Seattle; Odegard Construction Co., 3302 Hill St., Everett; Rasmussen & Funk Co., Box 7061, Seattle; Gill Construction Co., 5117 25th N.E., Seattle; E. E. Rasmussen, 7720 E. Greenlake Way, Seattle; Jasper S. Fairchild, 22316 5th N.E., Seattle.

Work includes covering all walls and ceiling of first floor with ½" gypsum board with taped joints; provision of hardboard wainscot in all halls and covering walls of latrine with prepainted hardboard and replacement of showers; provision of lavatory in each room; modification of lighting and heating. HH 5-11

★OFFICE BUILDING— Pullman, Wash.

Awards announced by Washington Water Power Co., W. 825 Trent, Spokane, for construction of a concrete block and brick, 96'x105' structure to be located on a 6¼-acre site over two mi. east of Pullman on the Pullman - Moscow Highway. The building, plans for which were prepared by Henry C. Bertelson, architect, Empire Bldg., Spokane, will house division offices and provide storage space. AWARDS: Commercial Builders, 508 Dexter, Pullman (general); C. M. Wilderman Co., 520 S. Main, Moscow, Idaho, (mechanical); Moscow Electric Co., 203 S. Main, Moscow (electrical). Amounts of contracts were not released but the entire cost including site is under $200,000.
MH 5-14. Previous report 5-7

●NATURAL GAS CONVERSION— Pullman, Wash.

Bids to be opened 2 p.m., May 24, by State College of Washington in Administration Bldg., college campus, Pullman, for conversion of 371 college-owned living units to natural gas. Plans with Sherman C. Markley, college superintendent of buildings and grounds, 102 Service Bldg., campus, Pullman. $10 deposit. Specifications call for provision and installation of natural gas heating system in 371 units of college housing as follows. MH 5-14. Previous report 5-3

ELEMENTARY SCHOOL— Pullman, Wash.

A 4.41 acre site has been purchased by Pullman School District No. 307 on Sunnyside Hill, Pullman, for a new elementary school. The school board has not yet determined the time to plan construction and financing has not yet been started. MH 5-15

PENNEY STORE REMODELING— Raymond, Wash.

Work underway by George Krueger, contractor, Raymond, for remodeling the front of the J. C. Penney store on Duryea St. at Raymond, according to Fred Dracobly and Fred Eichner, owners of the building. A recessed front of brick and aluminum is being installed. SC 5-10

■ HIGH SCHOOL ADDITIONS— Renton, Wash.

Additional planholders announced for construction of additions to John H. McKnight Junior High School located at the east termination of S. 115th in Renton and for alterations and remodeling of the Junior-Senior High School at 2nd Ave. and Morris St., Renton. Bids will be opened 8 p.m., May

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21, by H. R. Johnson, secretary, Renton School District No. 403, 1525 4th Ave. N., Renton.

Additional planholders — McKnight-Mechanical: L. G. Massart Plumbing & Heating, 4501 9th N.W.; George Lucken Plumbing & Heating, 922 Leary Way; Lincoln Mechanical Contractors, 714 Adams St.; Boyker Plumbing & Heating, 2627 Eastlake; Reynolds Plumbing & Heating, 110 Railroad Ave. S., Kent; West Coast Heating & Plumbing, 4125 9th Ave. N.W.; Ashwell - Twist Co., 967 Thomas; Navarre Plumbing & Heating, 3839 Stone Way; Bellevue Plumbing & Heating, 102nd and Main St., Bellevue; Percy Thorn Plumbing & Heating, 24 Etruria. Electrical: Lindberg Electric, 4600 Leary Way; Ewing Electric, 535 Main St., Edmonds; J. M. Hooper Electric, 215 Marion; Chapman Electric, 911 Walla Walla Ave., Renton; Connors Electric Co., 2523 Jefferson, Tacoma. Junior-Senior High—General: Venne Beauchamp, Box 637, Everett. Mechanical: Same as for McKnight except for deletion of Lincoln Mechanical Contractor and Percy Thorn Plumbing & Heating. Electrical: Same as for McKnight except for deletion of Connors Electric Co. All of Seattle except as noted. PD 5-15. Previous report 5-8

● HOUSING UNIT PAINTING— **Richland, Wash.**

Bids will be opened May 29 by Atomic Energy Commission, Box 550, Richland, for interior painting of approximately 360 housing units and about 185 fire alarm poles and 6 pedestals with boxes, at Richland. Plans with above office. Completion time September 13. SP 5-10

● ELEMENTARY SCHOOL— Seabeck, Wash.

Bids to be opened 2 p.m., May 29, by Central Kitsap School District No. 401, in Administration Bldg., at Silverdale, for construction of a six-classroom and multi-purpose room elementary school in Seabeck. Plans with E. L. Mills & Associates, architects, 308 S. Tacoma Aves., Tacoma. $20 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical and electrical.

One-story, 165'x117'; slab-on-grade; concrete block and brick brick veneer exterior wall; steel sash; glued laminated beams, 2x6, t&g decking, built-up roofing; two sky-domes; plasterboard on stud for interior wall; acoustical tile ceiling; asphalt and vinyl tile flooring; fluorescent and incandescent lighting. DC 5-14

● SUPPLEMENTARY CLASSROOMS— **Seattle, Wash.**

Bids to be opened 2 p.m., May 28, by Shoreline School District No. 412, Administration Bldg., 20th N.E. and E. 158th, Seattle, for construction of supplementary classrooms involving six buildings situated on the Shoreline Senior High School site located at E. 195th and 1st Ave. N.E. Plans with Peterson & Adams, architects, Smith Tower, Seattle. $20 deposit. Certified check, cashier's check or bid bond 5%.

Six movable wood frame structures, 24'x 40' each; cement-asbestos board exteriors; flat built-up roof; glued laminated beams; asphalt tile flooring; metal and wood sash; four electric unit heaters for each building. PD 5-14

■ PHYSICS LABORATORY ALTERATIONS— **Seattle, Wash.**

Planholders announced for alterations to 6,000 sq. ft. on the fourth floor of the Applied Physics Laboratory, 1013 E. 40th, Seattle. Bids will be opened 2 p.m., May 21, by University of Washington, Nelson Walstrom, comptroller, Administration Bldg., Seattle. Plans with Rich & Trimble, architects, 4507 University Way, Seattle.

Planholders: C B S Construction Co., 11115 7th Ave. N.W.; Lee Construction Co., 3623 Colorado; Noble W. White, Pier 65. All of Seattle. PD 5-14. Previous report 5-8

UNION HALL— **Seattle, Wash.**

Working drawings underway by Thomas Albert Smith, architect, 107 Cherry, Seattle, for a two-story reinforced concrete union hall at the southeast corner of Elliott Ave. and Bell St., Seattle, for Masters, Mates and Pilots Local 90, c/o Marine Engineers Beneficial Association, 1923½ 1st Ave., Seattle. Bids will be called in early summer, and construction completion expected this fall. PD 5-14. Previous report 3-12

★ELEVATORS— **Seattle, Wash.**

Award to Otis Elevator Co., 2200 4th Ave., Seattle, $199,901, by E. G. Henry, Board of Public Works, 512 County-City Bldg., Seattle, for installation of four passenger elevators and removal of existing freight elevator in City Light Bldg., 1015 3rd Ave., Seattle; Spec. No. 1507.

PD 5-10. Previous report 5-3

▲DENTAL CLINIC— **Seattle, Wash.**

Bids received by D. C. MacEwen, orthodontist, for construction of a one-story 900 sq. ft. dental clinic at 7556 15th Ave. N.W. in Seattle. Bids opened May 2. Plans by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle. LOW BIDS: Parsell & Laber, 11323 E. Riverside Drive, Bothell, $16,815; Raymond Construction Co., 8917 35th Ave. N.E., Seattle, $17,915; Tom Paulsen, 905 12th Ave. N., Seattle, $19,860.

PD 5-10. Previous report 4-26

★RESIDENCE— **Seattle, Wash.**

Construction will be underway about June 1st, contingent on government approval of the contract, by low bidder Larsen Construction Co., 4305 E. 77th, Seattle, $21,734, on a 1,371 sq. ft. residence for William Lindeman, 3819 E. 87th, Seattle. Plans by Rich & Trimble, architects, 4507 University Way, Seattle. One-story and basement; concrete foundations; 1"x10" channel cedar siding; flat built-up, gravel surface roof; aluminum windows; plaster partitions; oak, vinyl tile, slate flooring. Roy Sundberg, 4036 37th Ave. S.W., Seattle, $22,277, was second low bidder and will be awarded the contract if Larsen Construction decides to withdraw. PD 5-11

▲RESIDENCE— **Seattle, Wash.**

Bids received by Alfred W. Marr, for construction of a two-story, 2,100 sq. ft. residence at 4816 28th Ave. S., Seattle. Bids opened May 9. Plans by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle. LOW BIDS: Tex Nelson, 17301 Sylvester Road, $25,465; Tom Paulsen, 905 12th Ave., $25,755; Joe Hamlin, 1117 N. 85th, $26,339. Of Seattle.

PD 5-11. Previous report 4-27

● APARTMENT— **Seattle, Wash.**

Sub-bids will be opened 4:30 p.m., June 1, by builder-owner Rudy Simone, 3910 24th Ave. S., Seattle, at above address, for a 7,200 sq. ft. 16-unit apartment building at 11727 Beacon Ave., Seattle. Plans with the owner. Douglas W. Vickery is designer and Arthur D. Mahoney, structural engineer, 2307 Rainier Ave., Seattle. Frame building, balcony egress type; flat built-up roof; brick veneer; aluminum windows, slide type; plaster partitions; vinyl asbestos flooring; insulation between floors and on roof (rigid), walls (blanket); electric baseboard heat.

PD 5-11

▲FIRE EXTINGUISHING SYSTEM— **Seattle, Wash.**

Bids received by Department of the Army, room 300, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for installation of automatic fire extinguishing systems (E-124-57) R&U, Seattle Army Terminal, Seattle; Inv. No. 45-045-57-107-B. Bids opened May 10. LOW BIDS: Rainier Mechanical Contractors, Inc., 2702 E. 112th, Tacoma, $10,763; Grinnell Co. of the Pacific, Elliott and Bay, Seattle, $12,660; Pacific Automatic Sprinkler Co., 2148 N.E. Union Ave., Portland, $14,593.

SU 5-11. Previous report 4-26

▲UNION BUILDING— **Seattle, Wash.**

Bids received in the office of Harmon, Pray & Detrich, architects, Lloyd Bldg., Seattle, by Hoisting and Portable Engineers Local No. 302, 2800 1st Ave., Seattle, for construction of an 11,000 sq. ft. two-story reinforced concrete buildings at the southeast corner of Clay St. and Western Ave. in Seattle. Bids opened May 10.

LOW BIDS: Brazier Construction Co., 309 Pontius Ave., Seattle, $294,435; John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $296,100; Cawdrey & Vemo, 3601 Fremont, Seattle, $299,800.

SP 5-11. Previous report 5-

MOTEL— Seattle, Wash.

Working drawings are underway by Edwards & Cushman, architects, 2nd and Cherry Bldg., Seattle, for construction of a 70-unit three-story motel with lobby at 21[illegible] 5th Ave., Seattle, for owner-contractor William Woerner, 12717 8th Ave. N.W., Seattle. Plans call for 600,000 sq. ft. (each floor) 13,000 sq. ft. (basement); reinforced concrete; sandstone exterior, extensive plate glass, aluminum sash; flat built-up reinforced concrete slab roof; plaster partitions and walls; ceramic tile; wall-to-wall carpeting; electric wall panel heat. Building will have an elevator, steel marquee, 58-car basement parking, 28-car asphaltic concrete parking area outside. PD 5-13

APARTMENT— Seattle, Wash.
(Estimated cost $140,000)

Construction will be underway immediately by owner-contractor John P. King, 916 Yale N., Seattle, on a two-story 15-unit apartment building on Highland Drive, about one-half block from Aurora. Plans by Samuel G. Morrison, architect, Douglas Bldg., Seattle. Wood frame building, $,500 sq. ft.; frame construction; built-up roof, masonry-veneer exterior; plasterboard partitions; wall-to-wall carpeting; electric heat. Building will have 15, one- and two-bedroom units. PD 5-11

★HIGH SCHOOL ADDITION, ALTERATIONS— Seattle, Wash.

Award to Cawdrey & Vemo, 3601 Fremont, Seattle, $386,750, (basic plus all alternates) by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of a one-story, 108'x120' addition to Grover Cleveland High School and alterations to the existing building. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle.

PD 5-15. Previous report 5-1

● ELEVATOR CONVERSION—Seattle, Wash.

Bids will be opened 10:30 a.m., June 7, by Department of the Army, room 300, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for conversion of elevators at the terminal; Inv. No. TC 45-045-57-110B. Specifications with above office. Bid bond 20%. SP 5-13

BAKERY REMODELING— Seattle, Wash.

Remodeling will start immediately by Kermit Abelson, 7132 35th S.W., Seattle, on a one-story and basement 140'x120' bakery plant, including office space, at 11th and E. Union, Seattle, for Ruth Ashbrook Bakery, same address. Plans by Donald Wilson, architect, 605 Bell, Seattle, include obscure glass block, some maple flooring, fluorescent lighting, gas unit heaters. PD 5-13

● J. J. NEWBERRY STORE—Spokane, Wash.

Bids will be opened May 24 in the office of G. A. Pehrson & Associates, architects, Old National Bank Bldg., Spokane, for additions and alterations to J. J. Newberry Store No. 213 in Spokane. Plans with the architects. LL 5-14

CATHEDRAL ADDITIONS—Spokane, Wash.

Plans announced by Roman Catholic Diocese of Yakima, Most Rev. Joseph P. Dougherty, bishop, Liberty Bldg., Yakima, for additional construction, in connection with the rectory as previously announced (PCD 1-4), for St. Paul's Cathedral, 1208 W. Chestnut St., Yakima. Preliminary plans underway by Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima. Along with the rectory construction will be a new poured concrete baptistry, a poured concrete chapel, expansion of the priests' sacristy involving poured concrete and remodeling work for separating the narthex and nave by grill work. JG 5-3. Previous report 1-4 Rectory

▲OFFICE BUILDING ALTERATIONS— Spokane, Wash.

Bids received in the office of Henry C. Bertelsen, architect, and Lewis Klaue, associate, Empire State Bldg., Spokane, for

alterations to the Fidelity Savings and Loan Association building in Spokane. Bids opened May 9. LOW BID: Art M. Bengel, W. 1029 Bridge, Spokane, no figure released. LL 5-11. Previous report 5-7

★CHILDREN'S HOME ADDITION— Spokane, Wash.

Award to AAA Construction Co., N. 739 Helena, Spokane, $46,451, by St. Anne's Children Home, N. 707 Cedar for additions and alterations to the home. Plans by Henry J. Swoboda, architect, N. 6605 Division, Spokane. Six bids were received on May 3 for the project which involves construction of 2,400 sq. ft. of additional floor space on the main floor and basement, and remodeling the kitchen.
DC 5-15. Previous report 5-2

★HAY STORAGE BARN—Steilacoom, Wash.

Award announced by G. Lee Sandritter, director, Department of Institutions, Olympia, for construction of a hay storage barn at Western State Hospital in Steilacoom. Plans by Worthen, Wing, Seifert & Forbes, 9152 Gravelly Lake X Drive S.W., Tacoma. Bids opened May 10. AWARD: C & H Construction Co., 12303 Mile B Road, Tacoma, $9,528 (basic plus alts). 2ND LOW: R. G. Foster, 5324 S. 64th, Tacoma, $7,716 (basic). 3RD LOW: Fitzpatrick & McIntryre, 7701 Steilacoom Blvd., S.W., Tacoma, $8,003 (basic). DE 5-14. Previous report 5-2

★GRADE SCHOOL ADDITION, BUS GARAGE— Stevenson, Wash.

Subcontractors announced by White Construction Co., general contractor, 210 E. 10th Ave., Vancouver, for work involved in construction of a wood frame addition to Stevenson Grade School and for a bus garage near Stevenson High School. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. Owner is School District No. 3, Skamania County, Stevenson.

SUBCONTRACTORS: Alben Equipment Co., 3110 Alben Road, Vancouver, heating; Hoyt Plumbing Co., 1600 W. 39th, Vancouver, plumbing; Hersch Electric, Route 5, Vancouver, electrical; Drexel Scott, Vancouver, excavation; Soule' Steel Co., 2630 N.W. St. Helens Road, Portland, reinforcing steel; Garon Co., 915 W. 12th, Vancouver, structural steel, wire and iron; P. D. Parker, 315 E. 17th, Vancouver, brick; Charles Starr, 1810 Harney, Vancouver, concrete; Fred A. Snyder Roofing, Inc., 6639 S.W. Macadam Ave., Portland, roofing; Vancouver Roofing & Sheet Metal Co., 411 W. 5th, Vancouver, sheet metal; Central Wood Products, Inc., 1514 Main, Vancouver, millwork; W. P. Fuller & Co., 2181 N.W. Nicolai, Portland, glass and glazing; Timber Structures, Inc., Box 3385, Seattle, glued laminated beams; Calvert Co., 1709 E. 4th, Vancouver, trusses; M. Reuter & Sons Metal Products Co., 2230 S.E. Holgate, Portland, hollow metal doors; Mercer Steel Co., Inc., 2555 N.W. Nicolai, Portland, aluminum sash; J. W. Gieselman, Vancouver, floor covering; Multnomah Tile & Mantel, 302 N. Broadway, Portland, tile work; J. J. Kammer, 2515 N.E. Moll Road, Vancouver, plastering; E. W. Shields, 4246 S.E. Belmont, Vancouver, painting.
SC 5-15. Previous report 4-20

★MISCELLANEOUS BUILDINGS— Tumwater, Wash.

Award to E. Goettling & Son, 2921 S. J St., Tacoma, $137,950, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for construction of miscellaneous buildings for the Department of Natural Resources at Tumwater. DE 5-10. Previous report 4-30

★MASONRY REPAIRS— Vancouver, Wash.

Award to Sahara Waterproofing Co., 1510 W. Galer, Seattle, $2,280, by H. E. Pike, supervisor of purchasing, Box 1164, Olympia, for exterior masonry repairs to the primary building at the State School for the Blind in Vancouver. DE 5-10. Previous report 4-13

●WATER HEATING PLANT, PIPELINE— Willard Fish Station, Wash.

Bids to be opened 10 a. m., P.S.T., May 29, by Fish & Wildlife Service, Leo L. Laythe, regional director. The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland for construction of a water heating plant and related pipeline at the Willard Fish Cultural Station located about about six mi. north of Cook in Skamania County, Wash. Plans with Portland office. DM 5-10

RED CROSS BUILDING— Yakima, Wash.
(Estimated cost $100,000)

Plans will be complete later this month for construction of a new one- and two-story 9,800 sq. ft. Red Cross building at 4th and B St. in Yakima, for American Red Cross, Yakima Chapter, George Pinnell, chairman, 232 S. 2nd St., Yakima. Plans by Thomas F. Hargis, Jr., architects, Miller Bldg., Yakima.

No basement; 135'x45'; 82' two-story, balance one-story; ground floor ceiling above grade; concrete footings and foundation; poured concrete block, metal walls; frame floors on second floor, concrete slab on ground and first floor; timber beams, steel columns; flat built-up roof; frame partitions; wood and concrete stairways; aluminum windoms; paint exterior, sheet rock and plaster interior wall finish; drywall, plaster and gypsum lath partitions; asphalt tile flooring on 1st and 2nd floor, exposed concrete on ground floor; plaster, drywall and acoustical (alternate for acoustical tile) ceilings; batt insulation between joists in cement panels at curtain walls; hot air heating system; alternate for air conditioning system.
IG 5-10. Previous report 1-8

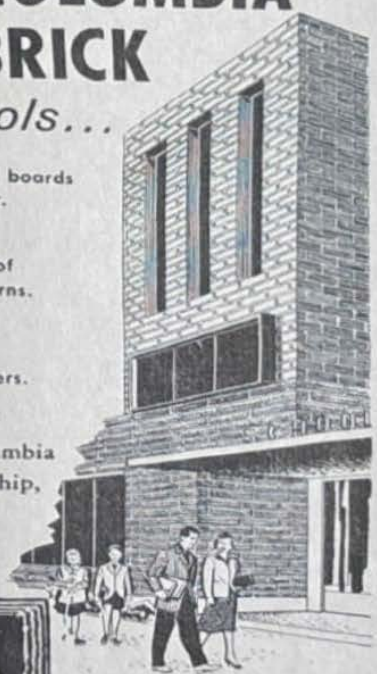
●PAINTING BUILDINGS— Yakima, Wash.

Bids will be opened 10 a. m., May 29, in the office of D. E. Stein, Yakima district engineer for Washington State Highway Commission at Olympia, for cleaning, surface preparation and application of one coat of primer and one coat of finish paint to all exterior wood and metal surfaces of 14 buildings in the district, including buildings at Clarkston, Pomeroy, Dodge, Dayton, Walla Walla, Pasco, Connell, Prosser, and Rimrock

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■ **CHURCH— Yakima, Wash.**

Planholders announced for construction of a two-level 161'x138' church on a five-acre tract at Ohio and Englewood avenues in Yakima. Bids will be opened 4 p.m., May 28, in First Christian Church, N. 3rd and E. B streets, Yakima, by church directors. Plans with Durham, Anderson and Freed, 1100 Denny Way, Seattle.

Planholders: Hills Construction Co., 102 S. 5th Ave., Yakima; W. Yeaman, 601 S. 1st St., Yakima; Jensen-Rasmussen, Box 89, Sunnyside; Vista Construction, Inc., S. 803 Park Road, Spokane; Mortensen Construction, 1021 Westlake N., Seattle.

PD 5-11. Previous report 5-7

★**YMCA BUILDING— Yakima, Wash.**

(Estimated cost $1,000,000)

Award to Paul Cook Construction Co., 307 Crescent Drive, Yakima, on a fixed fee basis, by Young Men's Christian Association, Clarence Ernst, secretary, S. 4th St., Yakima, for construction of a new YMCA building on the corner of Naches and E. Yakima avenues in Yakima. Plans by John W. Maloney, architect, Central Bldg., Seattle. Bids were previously rejected on this project.

IG 5-15. Previous report 3-22

CHURCH EDUCATIONAL UNIT— Yakima, Wash.

(Estimated cost $20,000)

Construction underway by volunteer labor on a concrete block educational unit to be located on Slavin Road in Terrace District, Yakima, for Southern Baptist Church, Rev. Elmer Mundy, pastor, Slavin Road, Terrace Heights, Yakima. Concrete floors; built-up composition roofing; sheet rock interior walls; asphalt tile flooring. IG 5-15

IDAHO

●**EQUIPMENT STORAGE SHED— Boise, Idaho**

Bids will be opened 2 p.m., May 28, by Department of Highways, 603 Main St., Boise, for construction of an equipment storage shed at the Strawberry Glen site near Boise, Ada County, Idaho. Plans with above office. $5 deposit. Certified check, cashier's check or bid bond 5%. SP 5-14

●**LABORATORY BUILDING— Coeur d'Alene, Idaho**

Bids will be opened 2 p.m., May 28, by Department of Highways, 603 Main St., Boise, for construction of a materials laboratory building at the headquarters site at Coeur d'Alene. Plans with Ernest M. Hicks, architects, 311 Powell Bldg., Coeur d'Alene. $10 deposit. Certified check, cashier's check or bid bond 5%. SP 5-14

ROCKET STORAGE FACILITIES— Gowen Field, Idaho

Bids will be opened about June 11 with a definite date to be established by addendum by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of rocket storage facilities at Gowen Field, near Boise, Ada County, Idaho; ENG-45-164-57-46. Specifications with above office. Bid bond 20%.

Project will include precast concrete roof decking; built-up asphalt and tar roofing; concrete block masonry; gravity-type roof ventilators; open web joists; forced hot water oil-fired heating system; supply lines and distribution systems; flexible bituminous paving; lighting protection system.

SP 5-14

SPERT 2 FACILITY— Idaho Falls, Idaho

(Estimated cost $1,300,000)

Plans and specifications will be issued late in May by Atomic Energy Commission, Idaho Operations Office, Idaho Falls, on Special Power Excursion Reactor Test No. 2 facility at the AEC's National Reactor Testing Station, Idaho; AT(10-1)-887.

Project involves construction of reactor building 60'x92', structural steel framework and pumice block walls; non-nuclear portions of the reactor system including reactor vessel, process piping, coolant system, electrical power system and a 20,000 gal., 14,000 gal. and 15,000 gal. storage tank; chain link security fence; frame gatehouse, area lighting system; control and instrument cables; electrical substation; water, sewage and waste disposal; site grading. A bidding period of about four weeks will be allowed. Construction is expected to take 15 months.

DM 5-14

MAINTENANCE SHOP ADDITION— Idaho Falls, Idaho

(Estimated cost $50,000)

Bids will be called late in May by Atomic Energy Commission, Idaho Operations Office, Box 122, Idaho Falls, for construction of an addition and modification of the maintenance shop in the Materials Testing Reactor and Engineering Test Reactor area in Idaho; AT(10-1)-908. The addition will be a 102'x88' reinforced concrete mezzanine floor in an existing building and will be supported on a structural steel beam and girder framework. Completion time 120 days. DM 5-15

▲**ARMORIES— Nampa, St. Anthony, Idaho**

Bids received in the office of Arthur Warren, commissioner, Department of Public Works, 316 Capitol Bldg., Boise, for construction of two National Guard armories, one at Nampa and the other at St. Anthony. Bids opened May 9. LOW BIDS—NAMPA: R. W. Luekenga Co., Box 943, Nampa, $79,812; R. E. Rice Construction Co., Box 5046, Boise, $84,840; David G. Dorsey, 1014 Everett St., Caldwell, $84,489. ST. ANTHONY: Robert F. Blodgett, 5110 Cherokee, Pocatello, $88,616; W. R. Cahoon Construction Co., Box 449, Pocatello, $89,277; Charles Zollinger & Son, Pocatello, $92,046.

SP 5-14. Previous report 4-27

BANK AND TRUST BUILDING— Pocatello, Idaho

(Estimated cost $400,000)

Plans will be completed about June 1 by Cedric M. Allen, architect, 403 N. Main, Pocatello, for construction of a three-story building addition for the Idaho Bank & Trust Co., J. Grant Bickmore, executive vice president, Carlson Bldg., Pocatello. The addition will extend 40' along W. Center St. from the Carlson Bldg. and will be about 90' deep. There will be three entrances to the new bank offices, one from the lobby of the Carlson Bldg., a revolving door where the present entrance is located and also at the southwest corner of the new structure. Drive-in window, night depository and 24-hour envelope depository will be on the west side adjacent to a parking area which will accommodate 24 cars. A circular drive will afford easy approach and exit from the drive-in window. Buildings which were in the expansion area have been razed by Steve Rhoads, Jr., 724 S. 19th, Pocatello. SC 5-10

MONTANA

★**BURLINGTON AVENUE SCHOOL ADDITION— Billings, Mont.**

Award announced by Yellowstone County School District No. 2, Clerk's Office, Lincoln Junior High School, 415 N. 30th, Billings, for construction of a four-classroom addition to the Burlington Avenue Elementary School in Billings. Plans by Nordquist & Sundell, architects, 1233 N. 27th St., Billings. Bids opened May 9. AWARD: Frates Construction Co., 424 Rimrock Road, Billings, $71,765 (includes $73,800 basic bid, $1,500 alt. ded. for wardrobe door change, $535 alt. ded. for furnace ceramic coated heat exchange). 2ND LOW: Hardy Construction Co., Box 1203, Billings, $74,660 (basic). 3RD LOW: Pederson Construction Co., 2925 Ronan Drive, Billings, $76,865.

EE 5-14. Previous report 4-30

★**ADMINISTRATION BUILDING— Billings, Mont.**

Award announced by City Council, City Hall, Billings, for construction of an administration building on site of the treatment plant at Billings. Plans by Gene T. Trotter, architect, 219½ N. Broadway, Billings. Bids opened May 7. AWARD: Lowe Construction Co., 2325 9th Ave. N., Billings, $13,480. 2ND LOW BID: Lynch Construction Co., Billings, $13,618. 3RD LOW: Boespflug Construction Co., 502 N. 25th St., Billings, $13,682. EE 5-14. Previous report 4-2

RESTAURANT FIRE— Billings, Mont.

(Estimated lost $120,000)

Fire, starting with an explosion, has destroyed the Rims Drive-in Restaurant located on the northern outskirts of Billings, according to owner William Bell of Billings. RB 5-14

●**MILES AVENUE SCHOOL ADDITION— Billings, Mont.**

Bids will be opened 8 p.m., May 27, by Yellowstone County School District No. 2, Billings, for construction of an eight- to ten-classroom addition to the Miles Avenue Elementary School in Billings. Plans with Walter Kuetzing, architect, 316 Hart Albin Bldg., Billings.

Masonry walls; glued laminated timber girders; plank decking; built-up roofing; aluminum windows; metal doors and door frames; acoustical tile, ceramic tile, asphalt tile flooring with linotile alternate; directional skylights; plaster louvres; forced air heating and ventilating systems, slim line lighting. EE 5-10

▲**HOSPITAL ADDITION— Conrad, Mont.**

Bids received by St. Mary's Hospital, Conrad, for construction of a two-story 76'x26' steel, frame and masonry convent addition to the hospital. Plans by George H. and Frank B. Shanley, architects, 201 Barber-Lydiard Bldg., Great Falls. Bids opened April 30. LOW BIDS: C. B. Lauch Construction Co., Box 724, Great Falls, $114,960; Falls Construction Co., 25th and River Drive, Great Falls, $115,000; J. E. Beaulaurier & Sons, 814 25th St. N., Great Falls, $115,648. EE 5-11

★**MAINTENANCE SHOP— Fort William H. Harrison, Mont.**

Award announced by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a 226'x80' National Guard repair and maintenance shop, including office, paint shop, leather shop and steam cleaning shop, at Fort William H. Harrison. Plans by Ostheimer & Campeau, architects, Granite Block, Helena. Bids opened May 1. AWARD: C. B. Lauch Construction Co., 3rd St. N., Great Falls, $173,000 (basic), $2,200 (alt. 1 add.), $3,000 (alt. 3 add.), $8,500 (alt. 4 add.), $1,500 (alt. 5 add.), $188,200 (total). 2ND LOW: Lowe Construction Co., 2325 9th Ave. N., Billings, $184,300 (basic), $1,500 (alt. 1 add.), $700 (alt. 2 add.), $500 (alt. 3 add.), $8,000 (alt. 4 add.), $900 (alt. 5 add). 3RD LOW: Gordon Construction Co., Box 319, Kalispell, $188,000 (basic), $1,800 (alt. 1 add.), $625 (alt. 2 add.), $760 (alt. 3 add.), $7,000 (alt. 4 add.), $1,004 (alt. 5 add.). LS 5-11. Previous report 5-1

●**TELEPHONE BUILDING—Glasgow, Mont.**

Bids will be opened 2 p.m., May 22, by Valley Rural Telephone Cooperative, Glasgow, for construction of a telephone building at Glasgow. Plans with above office. Plans by Glahart & Colgan, consulting engineers, 607½ Saint Joe St., Rapid City, S. Dak. $10 deposit. EE 5-11

SUNRISE PRESBYTERIAN CHURCH— Great Falls, Mont.

Building fund campaign will be underway soon by Sunrise Presbyterian Church, Rev. Roger Pohl, pastor, Great Falls, for financing construction of a new church at 38th St. between 5th and 6th avenues S. in Great Falls. William Kotz is general chairman of the building committee. SC 5-14

ARMY BUILDINGS, UTILITIES— Great Falls, Mont.

Bid opening of May 16 temporarily delayed. Bids will be opened about May 28 with a definite date to be established by addendum, by Corps of Engineers, Walla

Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of army reserve training center, motor vehicle storage shed, utilities and appurtenances at Great Falls, Cascade County.
SP 5-10. Previous report 5-2

■ **FIRST CHRISTIAN CHURCH—** **Helena, Mont.**

Planholders announced for construction of an addition to the First Christian Church in Helena, on which bids will be opened 5 p.m., May 23, Rev. Clifford N. Trout, pastor, at the church, 530 N. Benton Ave., Helena. Plans with Ostheimer & Campeau, architects, No. 4, Granite Block, Helena.

Planholders: C. B. Lauch Construction Co., 20 3rd St. N., Great Falls; Lowe Construction Co., Box 883, Billings; Gordon Construction Co., Box 519, Missoula; Underseth & Logan, 916 Harrison Ave., Helena; John Bergum, 1129 9th Ave., Helena; Herb Bergum, 835 N. Jackson St., Helena; Al Johnson, 326 Allen St., Helena; Wallace Waddell Construction Co., 1310 Leslie Ave., Helena. LS 5-15. Previous report 5-10

● **TM BUILDING—** **Kalispell, Mont.**

Bids will be opened 2 p.m., P.S.T., June 11, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for an operations area at TM Site 179 involving construction of 12 buildings, two gate houses, heating plant, pump houses, outside facilities about 15 mi. north of Kalispell; ENG-45-108-57-68. Plans with above office. Bid bond 20%. Completion time 570 calendar days.

Project involves construction of the following: transmitter and receiver building, operations building, power building, technical supply building, pit latrine, gate houses for operations and cantonment areas, administration and dispensary building, community building, BOQ building, two AM dormitories, dining hall, unit supply building, shop building, paint storage building, heating plant, sewage disposal pumphouse in cantonment area, pump house at upper and lower levels in operations area, 656' culvert, 6,150' barbed wire fence, 3,860' chain link security fence, 25,600 c.y. base or surface course of crushed aggregate, 51 ton asphalt for road mix, 8,270 sq. yd. roadmix pavement, 39,700 sq. yd. seal coat treatment, sanitary sewer system in operation and cantonment areas, drain lines.
DM 5-15. Previous report 5-8

★ **PAINTING—** **Lame Deer, Mont.**

Award to John Gillespie, Billings, no amount noted, by Bureau of Indian Affairs, 804 N. 29th St., Billings, for interior and exterior painting of Quarters No. 401, Ashland Farm Station, Lame Deer. Bids opened April 25. EE 5-14. Previous report 4-20

★ **TRAINING BUILDING—** **Malstrom AFB, Mont.**

Award to J. E. Beaulaurier & Sons, Box 2016, Great Falls, $276,851, by Corps of Engineers, Walla Walla district, Bldg. 602, construction of a proficiency training building at Malmstrom AFB; ENG-45-164-57-33.
SC 5-14. Previous report 4-18

City-County Airport, Walla Walla, for con-

★ **SQUADRON HEADQUARTERS BUILDING—** **Malmstrom AFB, Mont.**

Award to J. E. Beaulaurier & Sons, Box 2016, Great Falls, $256,860, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of a Squadron Headquarters and Operations building and appurtenant utilities, paving and fencing at Malmstrom AFB; ENG-45-163-57-24.
SC 5-11. Previous report 3-23

● **HELLGATE SCHOOL ADDITION—** **Missoula, Mont.**

Bids will be opened 8 p.m., May 22, by Hellgate School District No. 4, French town Road, Missoula, for construction of an addition to the Hellgate School. Plans with Fox, Ballas & Barrow, architects, Wilma Bldg., Missoula. LL 5-14

WYOMING

▲ **BUILDING REHABILITATION—** **Casper, Wyo.**

Bids received by Corps of Engineers, Omaha district, 1709 Jackson St., Omaha, Nebr., for rehabilitaion of 199 buildings, including replacing and repairing doors and windows, insulation board, wall and roof sheathing, storm windows, screens, asbestos-cement shingle siding and roofing, tightening roof trusses, interior and exterior painting, interior electrical wiring, installation of electrical fixtures, repairing and replacing plumbing and heating systems and equipment, at Natrona County Airport in Casper; ENG-25-066-57-72. Bids opened May 2. LOW BIDS: Swanson-Youngdale, Inc., 737 France St. N., Minneapolis, Minn., $334,243; A. D. Hayes, Lubbock, Texas, $345,700; Ross E. Cox, Box 1267, Baton Rouge, La., $346,312. SP 5-10. Previous report 4-26

● **COURTHOUSE ADDITION—** **Green River, Wyo.**

Bids will be opened 10 a.m., May 20, by Sweetwater County Commissioners, Courthouse, Green River, for construction of an addition to the courthouse. Plans with Kellog & Kellogg, architects, 309 N. Front St., Rock Springs, Wyo. $5 deposit. Bid bond 5%. SC 5-14

▲ **ELEMENTARY SCHOOL ADDITION—** **Midwest, Wyo.**

Bids received by School District No. 2 and Natrona County High School District, Casper, for construction of a one-story, 14,400 sq. ft., concrete, steel and brick addition to the elementary school at Midwest. Plans by Karl Krusmark, architect, 722 S. Center St., Casper. Bids opened May 6. LOW BIDS—GENERAL: Lane-Owens Construction Co., 1930 Cascade, Casper, $169,912; Peter J. Barton, Box 1110, Riverton, $183,576; Dougherty & Novotny Construction Co., Box 1841, Casper, $189,900. MECHANICAL: Frontier Plumbing & Heating Co., 611 W. 16th St., Cheyene, $38,210; Christensen Plumbing & Heating, 524 E. Yellowstone, Caasper, $38,276; Denny Plumbing & Heating Co., 619 Coburn Ave., Worland, $39,000. ELECTRICAL: Mike's Electric Service, Sheridan, $14,337; Union Electric, 142 S. Durbin, Casper, $16,338; American Electric Co., Box 494, Casper, $16,338. LY 5-15. Previous report 4-25

UTAH

▲ **STORAGE BUILDING REMODELING—** **Beaver, Utah**

Bids received by Departments of the Army and Air Force, National Guard Bureau, Office of U.S. Property & Fiscal Officer, Fort Douglas, for remodeling the motor vehicle storage building at Beaver; NG-42-0256-57-15. Bids opened May 9. LOW BID: Stallings & Hall Construction Co., 1233 Emerson Ave., Salt Lake City, $11,970. OTHER BID: D. B. Wade, Box 2342, Salt Lake City, $19,960.
SP 5-14. Previous report 4-27

CITY HALL— **Bountiful, Utah**

Bond election date extended to May 28 by City Council, City Hall, Bountiful, for a bond issue to finance construction of a new 7,760 sq. ft. brick and precast concrete city hall at Bountiful. Plans by Robert L. Springmeyer, architect, Zions Savings Bank Bldg., Salt Lake City.
GH 5-15. Previous report 3-22

SEVENTH WARD CHAPEL—Holladay, Utah

Construction underway by LDS Church Building Dept., 47 E.S. Temple, Salt Lake City, for the new Seventh Ward chapel in Holladay. Plans by Paul K. Evans, architect, 237 E. 3rd South, Salt Lake City. Building superintendent is Frank J. Lemperle, 434 Navajo St., Salt Lake City.
GH 5-15. Previous report 3-26

■ **ARMORY—** **Lehi, Utah**
(Estimated cost $160,000)

Planholders announced for construction of an armory, including gymnasium, kitchen, small classrooms and other facilities, on the south side of Main St. at approximately 4th in east Lehi. Bids will be opened 2 p.m., May 22, by Utah National Guard, Brig. Gen. Maxwell E. Rich, Utah Adjutant General, Fort Douglas. Plans with Robert L. Springmeyer, architect, 617 Zions Savings Bank Bldg., Salt Lake City.

Planholders: Groneman & Co., 70 W. 5th South, Provo; Alfred Brown Co., 627 Dooly Bldg., Salt Lake City; Ashton Lumber Co., Heber; Tolboe Construction Co., Box 7, Provo; Layton Construction Co., 1991 Siggard Drive, Salt Lake City; Richard J.



Miller, 41 N. 5th East, American Fork; John De Young, 1466 S. 10th East, Salt Lake City; Plewe Construction Co., 838 E.S. Temple, Salt Lake City; Newell J. Olsen & Sons, 127 S. 1st East, Logan; Fredrickson Builders, 4670 Redwood Road, Salt Lake City; John H. Haslam, 4121 Highland Drive, Salt Lake City; Chytraus Bros. Co., 2040 Redondo Ave., Salt Lake City.
GH 5-15. Previous report 4-25

▲COUNTY SHOPS— Midvale, Utah

Bids received by Salt Lake County Commissioners, City-County Bldg., Salt Lake City, for construction of the new Salt Lake County shops on a 22-acre site at 7200 South between the Denver and Rio Grande and Union Pacific Railroad tracks, in the vicinity of 700 West, in Midvale. Plans by William E. Nelson, architect, 2021 S. 2nd East, Salt Lake City. Bids opened May 6. LOW BIDS: Plewe Construction Co., 838 E.S. Temple, $254,980; MAC Construction Co., 3740 Lois Lane, $255,600; Layton Construction Co., 1991 Siggard Drive, $258,398. All of Salt Lake City.
GH 5-10. Previous report 4-30

▲SHOP, LUNCHROOM ADDITION— Murray, Utah

Bids received by Murray City Board of Education, 5025 S. State St., Murray, for construction of a new shop and lunchroom addition to the Murray High School. Plans by Cannon & Mullen, architects, 47 W.S. Temple, Salt Lake City. Bids opened May 8. LOW BIDS: G. Maurice Romney, 424 S. 7th East, Salt Lake City, $86,625; John H. Haslam, 4212 Highland Drive, Salt Lake City, $193,693; John DeYoung, 1466 S. 10th East, Salt Lake City, $194,500.
GH 5-11. Previous report 5-2

AIR CONDITIONING—Salt Lake City, Utah

Bids rejected by General Services Administration, Business Service Center, Bldg. 41, Denver Federal Center, Denver, Colo., for air conditioning the Jury Room at the U.S. Post Office and Courthouse in Salt Lake City; Proj. No. 556.
SP 5-10. Previous report 5-7

JUNIOR HIGH SCHOOL— Salt Lake City, Utah

Bid opening of May 21 temporarily postponed by Granite School District, David Gourley, superintendent, 3212 S. State St., Salt Lake City, for construction of the 1,200-student East Mill Creek Junior High School at 3670 South and 3100 East in Salt Lake City. Plans with Lorenzo S. Young, architect, Continental Bank Bldg., Salt Lake City.
GH 5-14. Previous report 4-12

■ARMORY— Salt Lake City, Utah

Planholders announced for construction of the second National Guard armory at Salt Lake City, on which bids will be opened 2 p.m., May 22, by Utah National Guard. Brig. Gen. Maxwell E. Rich, Utah Adjutant General, Fort Douglas. Plans with Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City.

Planholders: Groneman & Co., 70 W. 5th South, Provo; Alfred Brown Co., 627 Dooly Bldg.; Layton Construction Co., 1991 Siggard Drive; Maurice B. McCullough, 503 13th Ave.; Chytraus Bros. Co., 2040 Redondo Ave.; Fredrickson Builders, 4670 Redwood Road; Plewe Construction Co., 838 E.S. Temple; Jensen Construction Co., 548 W. 2nd North; G. Maurice Romney, 424 S. 7th East; Finn B. Paulsen, 3181 S. 1940 East. All of Salt Lake City unless noted.
GH 5-15. Previous report 4-25

■ARMORY— Smithfield, Utah
(Estimated cost $120,000)

Planholders announced for construction of a new National Guard armory at Smithfield, on which bids will be opened 2 p.m., May 22, by Utah National Guard, Brig. Gen. Maxwell E. Rich, Utah Adjutant General, Fort Douglas. Plans with Peter M. A. Moyes, architect, Boston Bldg., Salt Lake City.

Planholders: Ace S. Raymond, 1032 N. Main St., Logan; John H. Miekelson & Co., 528 E. Center St., Logan; Chytraus Bros. Co., 2040 Redondo Ave., Salt Lake City; Ernest Stettler & Sons Co., 672 E. 9th North, Logan; Olsen & Davis Construction Co., Logan; Joseph C. Jacobsen, 149 E. 7th North, Logan; Newell J. Olsen & Sons, 128 S. 1st East, Logan; Builders, Inc., 1156 Gramercy Ave., Ogden.
GH 5-15. Previous report 4-25

ALASKA

●BUILDING, ANTENNA ADDITIONS— Anchorage, Alaska

Bids to be opened 11 a.m., June 3, by U.S. Civil Aeronautics Administration, procurement branch, 402 Federal Bldg., Anchorage, for building and antenna additions at Angoon, Rogers Point, Thane, Sunset Cove and Sitka. Plans with above office.

Project involves—Schedule 1: 8' building additions at Angoon and Rogers Point; installation of government furnished masts, antennas and related work at all five sites. Schedule 2: Dismantling existing antennas and transmission lines at the five sites.
DC 5-15

●HEATING SYSTEMS— Eielson, Ladd AFB, Alaska

Bids will be opened 2 p.m., May 28, by Corps of Engineers, Alaska district, D-E Bldg., Anchorage, for improvements to family housing at Ladd and Eielson Air Force Bases, involving modifications to heating systems at Ladd AFB (Schedule A), modifications to heating systems at Eielson AFB (Schedule B) and turbine room ventilation and floor extensions at Ladd AFB (Schedule C); ENG-95-507-57-72. Specifications with above office and with Seattle branch office, 4735 E. Marginal Way, Seattle. Bid bond 20%. Completion times September 15 (Sched. A and B) and October 31 (Sched C).
SP 5-10

FIRE STATION No. 1— Fairbanks, Alaska

Plans will be complete about June 1 by E. R. McEntire & Associates, architects, 201 Chena Bldg., Fairbanks, for construction of Fairbanks Fire Department one-story substation No. 1 at the corner of W. 15th St. and Gilliam Way in Fairbanks.

No basement included; 3,040 sq. ft.; concrete footings and foundation; frame walls; concrete slab floors; glued laminated beams; flat glued laminated roof; frame partitions; wood windows; ribbed aluminum siding, concrete block exterior; gypsum board interior wall finish; drywall partitions; vinyl asbestos tile flooring; drywall, acous... ceilings; folding doors, blackboards, cla... fire doors; rigid insulation in roof, ... insulation in walls; hot water heating ... tem, oil fuel; mechanical exhaust syst...
SP ...

●GARAGE— Haines, Ala...

Bids will be opened 11 a.m., June 4, ... Bureau of Public Roads, Box 1961, June... for construction of an 80'x80' steel and t... ber frame garage building with concr... floor and metal roof and furnishing a... installing specified equipment at Hai... Proj. No. F-095-5(2). Specifications w... above office. Plans with above office, ... Federal Bldg., Juneau. Bid bond 5%.
SP 5...

▲HIGH SCHOOL— Homer, Alas...

Bids received by Alaska Public Work... Box 1181, Juneau, for construction of ... 1,000 sq. ft. reinforced concrete, steel a... wood frame high school building at Home... Proj. Aaa 50-A-234. Bids opened May ... (extended from May 8). LOW BID: Oh... Construction Co., Box 2137, Anchorag... $390,000. ONLY OTHER BID: J. B. Wa... rack Co., Box 2080, Anchorage, $408,000.
JU 5-10. Previous report 5-...

▲SCHOOL ADDITION— Kenai, Alask...

Bids received by Alaska Public Work... Box 1181, Juneau, for construction of ... reinforced concrete and wood frame, te... classroom addition (Contract B) and 7,5... sq. ft. reinforced concrete steel and woo... frame multipurpose room and boiler roo... addition (Contract A) to the high school ... Kenai; Proj. Aaa 50-A-195. Bids opene... May 9 (extended from May 8). LOW BID... Ohls Construction Co., Box 2137, Anchorag... $275,000 (Contract A), $225,000 (Contract B)... ONLY OTHER BID: J. B. Warrack Co., Bo... 2080, Anchorage, $290,000, $244,000.
JU 5-10. Previous report 5-...

★TACAN FACILITIES— Unalakleet AF Station, Alask...

Award to American Service, Inc., Box 87... Spenard, $63,870, by Corps of Engineers... Alaska district, in the Seattle branch office... 4735 E. Marginal Way, Seattle, for construc... tion of Tacan facilities, including a Naval... building, electrical distribution system, ac... cess road, area grading and diesel engine... installation, at Unalakleet Air Force Station... ENG-95-507-57-67.
SP 5-11. Previous report 4-...

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

●SEWER SYSTEM— Albany, Ore.

Bids will be received until 5:30 p.m., May 22, and will be opened at 7:15 p.m. on that date by City Council, City Hall, Albany, for construction of a storm and sanitary sewer system in the southern part of Albany. Plans and specifications with city engineer at above address. $20 deposit.

STORM SEWERS: 14,265' concrete pipe; 41 manholes. SANITARY SEWERS: 27,500 c.y. trench excavation; 7,560' reinforced concrete pipe; 10,710' concrete pipe; 4,715' asbestos-cement pipe; 58 manholes.
SC 5-15. Previous report 4-18

★SLUDGE BURNING FACILITIES— Astoria, Ore.

Award to Duoos & Son, Box 222, Astoria, $8,895, in the Public Works Office, U.S. Naval Station, Tongue Point, Astoria, for providing an oil-sludge burning facility, including construction of dolphins, ship to shore oil line, burning tank and other facilities, at the U.S. Naval Station, Tongue Point, Astoria; Spec. No. 1941/57. Bids opened April 25.
SU 5-9. Previous report 4-...

★BOILER SMOKESTACK AND BREECHING REPLACEMENT— Astoria, Ore.

Award to Astoria Welding Works, Box 88, Astoria, $14,156, by Public Works Office, U.S. Naval Station, Tongue Point, Astoria, for fabricating and installing three 43" diameter by 66' high 3/16" thick steel smokestacks and breeching on boilers at the heating plant at the U.S. Naval Station, Tongue Point, Astoria; Spec. No. 1943/57.
SP 5-10. Previous report 5-...

▲WELL DRILLING— Astoria, Ore.

Bids received by Oregon State Game Commission, 1634 S.W. Alder St., P.O. Box 4136, Portland, for well drilling on the Game

Commission property, Highway 20 at Gnat Creek, 20 mi. east of Astoria, Clatsop County, Ore. Schedule I covers 0 to 150'; Schedule II, 150' to 350'. BIDDERS: Haakon I. Bottner, 11544 N.E. Glisan St., Portland, (Schedule I) $6,279, (II) $5,128; R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, $6,856, $5,364. Bids opened May 8.
WB 5-10. Previous report 4-26

●STREET IMPROVEMENT— Baker, Ore.

Bids will be opened 8 p.m., June 3, by City Council, City Hall, Baker, for a street improvement project which encompasses approximately 5.5 mi. arterial and residential paving at Baker. Plans with Cornell, Howland, Hayes & Merryfield, engineers, 628 Idaho Bldg., Boise, and with city engineer. $40 deposit. Certified check, cashier's check or bid bond 5%. Quantities: 13,000 ton of 2" and 3" asphaltic concrete paving; 35,000' concrete curb and gutter and plain concrete curb; 110 concrete catch basins; 65,000 ton base and leveling rock; 50,000 c.y. street excavation; 265' of 20"x18" arch culvert; one small concrete inlet structure.
SP 5-15. Previous report 5-10

●TELEPHONE LINE— Beavercreek, Ore.

Bids will be opened 10:30 a.m., June 11, by Beavercreek Telephone Co., A. A. Hallander, manager-president, Firehall Bldg., Beavercreek, for construction of 111.80 mi. telephone line, involving 22.51 mi. open wire-pole line, 27.82 mi. open wire-joint use, 15.82 mi. aerial cable, 33.35 mi. modification to existing line and 12.30 mi. service drops, in the rural area surrounding Beavercreek, Clackamas County, Ore.; Oregon 526 Beavercreek. Plans and specifications with Robert Welty, consulting engineer, Box 282, The Dalles. $10 deposit. Completion time 100 working days.
SP 5-11

SEWAGE PLANT EXPANSION— Beaverton, Ore.

(Estimated cost $90,000)

Bond election for $60,000 approved by City, Al Rossi, mayor, City Hall, Beaverton, for expansion of sewage plant, including new digester, another settling tank, additional filter equipment and 350' of 24" trunk sewer piping. Application to be made for $30,000 in federal aid. WB 5-10. Previous report 4-24

●PROPELLER TYPE FANS— Bonneville, Ore.

Bids to be opened 11 a.m., P.S.T., May 23, by Corps of Engineers, 628 Pittock Block, Portland, for three propeller type fans, with discharge louvers, 15,000 cfm @ 1⅛" static pressure, fob Bonneville; CIVENG-35-026-57-236.
WB 5-15

▲JETTY CONSTRUCTION—Brooking, Ore.

Bids received by Corps of Engineers, 628 Pittock Block, Portland, for construction of two rubble-mound jetties at the mouth of Chetco River, Brookings; CIVENG-35-026-57-218. LOW BIDS: F. L. Somers, Box 668, Medford, $322,600; Elte Construction Co., Route 3, Boring, $374,000; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $383,600. Government estimate, $292,280. Bids opened April 17.
WB 5-14. Previous report 4-30

★JETTY, DIKE WORK— Coos Bay, Ore.

Award to General Construction Co., 4850 N.W. Front Ave., Portland, $1,395,645, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for repair of the outer end of the North Jetty and construction of pile dikes at Coos Bay; CIVENG-35-026-57-208. WB 5-15. Previous report 5-2

●ROAD CONSTRUCTION— Cottage Grove, Ore.

Bids to be opened 2 p.m., May 29, by U.S. Forest Service, H. P. Campbell, assistant supply officer, 729 N.E. Oregon St., Portland (P.O. Box 4137) for clearing, grading, drainage and surface base course of 0.32 mile section of Sharps Creek Road No. 2235-B, approximately 32 mi. southeast of Cottage Grove, Lane County, Umpqua National Forest, Ore. Plans with above office or with Supervisor, Umpqua National Forest, Post Office Bldg., Roseburg.
WB 5-14

●CLEARING, ABUTMENT EXCAVATING— Cougar Reservoir, Ore.

Bids to be opened 2 p.m., P.S.T., June 4, by Corps of Engineers, Portland office, 628 Pittock Block, Portland, for stripping and excavating the abutments for Cougar Dam and clearing a portion of the reservoir area at Cougar Reservoir, South Fork McKenzie River, Willamette River Basin, Ore.; CIVENG-35-026-57-234. Plans with above office. Bid bond 20%. Quantities: Sec. A, 800,000 c.y. unclassified excavation; Sec. B, 425,000 c.y. same.
DM 5-15

▲STREET IMPROVEMENT— Dallas, Ore.

Bids received by City Council, City Hall, Dallas, for the 1957 street improvement project at Dallas. Bids opened May 6. LOW BIDS: Central Paving Co., Uglow Ave., Dallas, $77,566; Salem Black Top Paving Co., 1815 S. 22nd, Salem, $82,498; Warren Northwest, Inc., Box 5072, Portland, $86,140.
SP 5-10. Previous report 5-1

●DESOLATION CREEK BRIDGE— Dale, Ore.

Bids will be opened 10 a.m., May 29, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland, for construction of 78', single lane, Desolation Creek Bridge, with treated timber superstructure and concrete piers, located on Desolation Road No. S725, approximately 10 mi. east of Dale, Grant County, Umatilla National Forest, Ore.; Bid No. 245. Plans with supply officer or Supervisor, Umatilla National Forest, Post Office Bldg., Pendleton, Ore.
WB 5-15

▲CONCRETE LINED CHANNEL— Eugene, Ore.

Bids received by Corps of Engineers, 628 Pittock Block, Portland, for construction of a 1,800' concrete lined channel at Amazon Creek beginning at Station 513/16.4 and ending at Charnelton St. Bridge, approximately 1,800', Eugene, Willamette River Basin Project, Ore.; CIVENG-35-026-57-214. LOW BIDS: J. M. Steinmuller, Jr., 907 W. 3rd, Eugene, $127,806; E-W Construction Co., 3170 W. 11th, Eugene, $136,970; Hamilton & Thoms, Box 726, Eugene, $160,800. Engineer's estimate, $154,709.
DM 5-14. Previous report 4-18

●SIDEWALK REPAIRS—Forest Grove, Ore.

Bids will be opened 2 p.m., May 27, by City Manager, City Hall, Forest Grove, for repairing 7,000 sq. ft. of 4" concrete sidewalk and 2,000 sq. ft. of 6" concrete walk in southwest Forest Grove. Specifications with above office.
SC 5-15

●WATER SCREENS— Grants Pass, Ore.

Bid opening extended from May 16 to 2 p.m., May 28, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Grants Pass, two vertical traveling water screens suitable for installation in the screen structure, consisting of completely self-contained screening units including for each screen a screen drive, detachable tooth-head sprocket and screen guides, for Savage Rapids Dam rehabilitation, Grants Pass Project, Ore.; DC-4891.
SP 5-14. Previous report 4-10

▲WATER MAIN PIPE— Heppner, Ore.

Bids received by City Council, City Hall, Heppner, for two mi. of 10" steel water main pipe. Bids opened May 6. LOW BIDS: Armco Drainage & Metal Products, Inc., 1320 S.W. Broadway, $1.74 per foot; Peerless Pacific Co., 2238 N. Interstate Ave., $1.75 per foot; Pacific Water Works Supply Co., 0440 S.W. Porter Ave., $1.78 per foot. The following bidders submitted figures on the basis of CFT: Waterworks Supplies Co., 4455 S.E. 24th, $176; Crane Co., 710 N.W. 14th, $187. All of Portland. SP 5-14. Previous report 5-1

WATER SYSTEM IMPROVEMENTS— Heppner, Ore.

(Estimated cost $193,000)

Plans announced by City Council, City Hall, Heppner, for a water system improvement program at Heppner. Plans and specifications by Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem. Recommended improvements include 51,600' of 8" steel pipe; coal tar wrapped pipe; 51,600' excavation; 35 air relief valves; four 8" valves; control valves and appurtenances for pressure control; development of well source at a location closer to the city (alternate to new supply line).
SC 5-7

●DAM, INTAKE WORKS, BRIDGES— Hills Creek Reservoir, Ore.

Bid opening extended from May 23 to 2 p.m., May 28, by Corps of Engineers, Portland office, 628 Pittock Block, Portland, for construction of dam and outlet works, sewer intake works and detour road and bridges at Hills Creek Reservoir, Middle Fork Willamette River, Ore.; CIVENG-35-026-57-175. SP 5-10. Previous report 4-26

▲CLEARING— Hills Creek Reservoir, Oakridge, Ore.

Bids received by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for clearing area "D," totalling approximately 95 acres, at Hills Creek Reservoir on Hills Creek, a branch of the Middle Fork Willamette River, approximately 4.5 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-57-223. LOW BIDS: Henry H. Miller, 2191 N.E. Stephens, Roseburg, $30,780; Schutt Construction Co., Inc., P.O. Box 727, Springfield, $39,400; H. G. L. Pierce, Route 2, Box 174D, Battleground, Wash., $60,800. Government estimate, $32,400. Bids opened May 13. WB 5-15. Previous report 5-4

●BRIDGE— Hills Creek Reservoir, Ore.

Bids to be opened 2 p.m., P.S.T., June 6, by Corps of Engineers, 628 Pittock Block, Portland, for construction of a reinforced concrete bridge at the lower crossing on the relocated Rigdon Road at Hills Creek Reservoir on Middle Fork Willamette River about two mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-57-238. Plans with above office. Bid bond 20%. Quantities: 490 c.y. structure excavation; 132 c.y. rock backfill; 433 c.y. substructure concrete; 514 c.y. superstructure concrete; 1,450 bbl. portland cement; 165,550 lb. steel reinforcement; 492' steel rail; 14,100 lb. miscellaneous metal.
DM 5-15

TRAILER PARK— Klamath Falls, Ore.

Preliminary site construction will start soon for a 16-acre deluxe trailer park near

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★

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the upper end of Biehn St. in Lakeside Addition, Klamath Falls, according to the Klamath Falls Planning Commission, Architect John Howard, chairman, City Hall, Klamath Falls. The trailer park will be constructed by Graham Bros., Ltd., Lakeport Blvd., Klamath Falls. ZZ 5-3

● STREET IMPROVEMENTS— Klamath Falls, Ore.

Bids will be opened 7:30 p. m., May 20, by Frank A. Blackmer, police judge, City Hall, Klamath Falls, for improvements to Eldorado Ave., Dahia St., N. 10th St., et al, at Klamath Falls. Specifications with city engineer at above address. $10 deposit.
SC 5-15. Previous report 2-6

★BEAR AND ALDER CREEK BRIDGES— Lakeview, Ore.

Award to Hampton C. Platt, 3805 Thorndale Road, Salem, $18,060, by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for construction of treated timber Bear Creek Bridge and treated timber and concrete Elder Creek Bridge, Fremont National Forest, Lake County, Ore.; Inv. No. 207.
WB 5-11. Previous report 5-4

★SEWAGE CLARIFIER— Lebanon, Ore.

Awards pending State Sanitary Authority and U. S. Dept. of Health and Welfare, for construction of a 55' diameter circular clarifier and other additions to the sewage treatment plant at Lebanon, according to Van R. Thome, city clerk, City Hall, Lebanon. Plans and specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Bids opened May 3. AWARD RECOMMENDATION: Mac Sharp & Michaels Construction Co., 9820 S.W. Eagle Lane, Beaverton, $30,108 (clarifier mechanism additional). ONLY OTHER BID: Henry Den-Herder, Box 307, Lebanon, $47,999 (clarifier mechanism additional). SP 5-10. Previous report 4-20

■ CLEARING— Oakridge, Ore.

Planholders announced for clearing areas F and H totaling approximately 472 acres at Hills Creek Reservoir, Middle Fork Willamette River, about 5 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-57-233. Bids will be opened 2 p. m., May 21, by Corps of Engineers, Portland District, 628 Pittock Block, Portland.

Planholders: Theodore Richert, Star Route 1, Box 86, Shelton, Wash.; R. K. Shelton Construction, Box 290, Idlewild Route, Roseburg; Schutt Construction Co., Inc., Box 727, Springfield; J. Ira McNutt Construction, P. O. Box 296, Springfield; C. H. Strong, Box 366, Eugene; Murray Bros. Construction, Box 191, Bend; Washington Utilities Construction Co., 1203 Regents Blvd., Tacoma; Harbert Bros., Estacada; Wixson & Crowe, Inc., P. O. Box 799, Redding, Calif.; The Helmick Co., P. O. Box 6128, Seattle; Henry H. Miller, 2191 N.E. Stephens, Roseburg; Modern Excavating Co., 6734 E. Marginal Way, Seattle; R. W. Byers, P. O. Box 67, Redding; H. & M. Construction Co., P. O. Box 296, Napa, Calif.; Wade Lahar Construction Co., P. O. Box 7, Mountain Home, Ark.; A. E. Carter, Star Route, Lowell; C. & S. Construction, Route 4, Mt. Vernon; H. & W. Construction, Route 11, Box 147, Olympia; Bednorz Construction Co., 23 Rainier Place S., Tacoma; Turner & Hoffman, 12556 S.E. Salmon St., Portland; Vergil Miller, 2041 Laura St., Springfield; Weed Control Service, Inc., 2605 S.W. 1st, Portland; J. H. Trisdale, Inc., P. O. Box 779, Redding.
WB 5-15. Previous report 5-4

■ AMMUNITION RENOVATION FACILITIES— Ordnance, Ore.

Planholders announced for ammunition renovation facilities, Umatilla Ordnance Depot, Umatilla and Morrow counties, Ordnance, ENG-45-164-57-44, on which bids will be opened 2 p. m., June 4, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla.

Planholders: E. S. Schnell & Co., 661 E. Ridgeway, Hermiston; Garratt Engineering & Equipment Co., 30 Rollins Road, Millbrae, Calif.; J. G. Watts Construction Co., Route 1, Box 300, Salem; Wayne Construction Co., 3810 Stone Way, Seattle; F. C. Wood Co., 2150 N. 1st, Hermiston; Timber Co., 2150 N. 1st, Hermiston; Twin City Construction Co., 404 N. 7th St., Pasco; Vista Construction, Inc., S. 803 Park Road, Spokane; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; Thompson Construction Co., 3319 10th Ave. W., Kennewick; George A. Moore & Associates, Inc., 923 S.W. 17th St., Portland; Lewis Construction Co., 2531 Kennewick Ave., Kennewick; E. Chuck Mardis, room 8, Griggs Bldg., Pasco; L. H. Hoffman Co., 1345 Lee Blvd., Richland; Lewis Hopkins Co., 221 S. 3rd St., Pasco; Interstate Construction Co., c/o Charles F. Krugle, Box 887, Madras; Jensen-Rasmussen Co., Box 89, Sunnyside; Elford Co., 1750 State St., Bellingham; Cherf Bros. & Sandkay, Inc., Box 938, Ephrata; Bechtel Bros. Builders, Box 792, La Grande; Dale Benz, Inc., 1912 W. Grant St., Box 6007, Phoenix, Ariz. SP 5-11. Previous report 5-3

▲SUBSTATION ADDITION—Portland, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Forest Grove 115 kv line No. 2 terminal addition to Keeler Substation, Washington County, Ore., about 10 mi. west of city limits of Portland on the Sunset Highway; Inv. No. 8364. LOW BIDS: Olson Electric Co., P. O. Box 830, Vancouver, $15,183; Brandon Co., 6401 Lincoln, Vancouver, $15,685; Barnes Electric Co., Inc., 1105 N. Alberta St., Portland, $15,738. Bids opened May 10.
WB 5-14. Previous report 4-27

★CLEARING, TRANSMISSION LINES— Portland, Ore.

Award to Tyee Construction Co., 1901 23rd Ave. S., Seattle, $171,255, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing and construction of the Big Eddy-Chenoweth 230-kv transmission lines Nos. 1 and No. 2, Wasco County, Ore., and Klickitat County, Wash.; Inv. No. 8377. WB 5-14. Previous report 5-3

● GRADING, PAVING— Portland, Ore.

Bids will be opened 10 a. m., May 23, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for grading and paving certain open areas at Terminal No. 2, 3636 N.W. Front Ave. Quantities: 3,600 c.y. excavation; 7,800 sq. yd. asphaltic concrete paving; 3,100 c.y. base rock; 360' of highway type guard rail; 725' of 8' chain link wire fence; 3 concrete catch basins with drainage pipe.
WB 5-14

● ELECTRICAL WORK— Portland, Ore.

Bids will be opened 10 a. m., May 23, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for furnishing and installing at Terminal No. 2, 3636 N.W. Front Ave., the following: 760 amp., 480 volt, 3 phase, underground service entrance terminating in an 800 amp service bus gutter; 13 poles, underground conduit, wiring and fixtures for floodlights, street lights, service poles and associated equipment.
WB 5-14

● COMBINATION PUMPER—Portland, Ore.

Bids will be opened 8 p. m., June 3, by Multnomah County Rural Fire Protection District No. 10, Lester A. Derry, chief, 1550 S.E. 122nd Ave., Portland, for one 750 gpm class A triple combination pumper. Specifications available at fire station at above address.
WB 5-14

● WATER PIPE— Portland, Ore.

Bids to be opened 2 p. m., May 24, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing cast iron water pipe. Certified check or bid bond 10%.
WB 5-14

★STATE HIGHWAY PROJECT— Portland, Ore.

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened April 19.

ROCK PRODUCTION — ELGIN - UNION SECTION: About 17,400 c.y. crushed material in stockpile on Wallowa Lake and Cove Highway, Union County; a St. Project. AWARD: E. H. Itschner, Box 2 Molalla, $56,550. SP 5-10. Previous report 4-

★DOCK CONSTRUCTION— Portland, O (Estimated cost $135,000)

Award to General Construction Co., 4 N.W. Front Ave., Portland, by Zidell M chinery Co., 3121 S.W. Moody St., Portlan for 40'x30' addition to dock at above a dress.
WB 5-

★STREET IMPROVEMENTS—Portland, Or

Award by Multnomah County Commi sioners, purchasing agent, 504 County Cour house, Portland, for street improvement AWARDS: Multnomah Road & Concrete Co 1130 S.E. 112nd Ave., $10,297 (S.E. Gra St.); Logan, Taylor & Co., 7800 N.E. Killing worth St., $16,187 (S.E. Malden St.), $4,3 (S.E. 151st Place); Oregon Asphaltic Pavi Co., 0441 S.W. Porter St., $19,280 (S.E. M St.); K. F. Jacobsen & Co., 1107 N. Russe St., $11,406 (S.W. Terwilliger Place).
WB 5-11. Previous reports 4-20, 4-26, 5-3, 5-

★WASH RACK DRAIN, SPOIL AREA GRADING— Portland, Or

Award to Thompson & Georgeson, Inc 1924 S.E. 6th, Portland, $6,896, by Corps o Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for wash rack drain and spoil area grading for the Air National Guard a Portland International Airport; ENG-45-18 57-127. SC 5-11. Previous report 5-

★STATE HIGHWAY PROJECT— Portland, Or

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened April 16 in Salem.

GRADING, PAVING—HOPMERE ROAD McNARY WYE SECTION: Grading, asphaltic concrete paving 2.92 mi. Wheatland Road, about four mi. north of Salem, Marion County; FAP No. S-329(1). AWARD: Central Paving Co., Box 38, Independence, $84,010. SP 5-15. Previous report 4-

★STATE HIGHWAY PROJECT— Portland, Or

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened March 29 in Portland.

GRADING—PACIFIC HIGHWAY EAST Grading 5.74 mi. N. Jefferson Junction-S.P. R.R. overcrossing section of Pacific Highway east about 10 mi. south of Salem, Marion and Linn Counties; FIP No. 1-(15). AWARD: Roy L. Houck & Sons, 1 N. 20th St., Salem, $605,067.
SP 5-15. Previous report 4-

★BANK PROTECTION— Portland, Or

Award to Harbert Bros., Estacada, $6 606, by Corps of Engineers, 628 Pittock Block, Portland, for construction of ston revetment and drift embankment along th right bank of South Santiam River a Gunderson. Location about four mi. nort of Lebanon, Linn County, Ore.; CIVENG 35-026-57-205. WB 5-15. Previous report 5-

● LEVEE— Portland, Or

Bids to be opened 2 p. m., P.S.T., June by Corps of Engineers, Portland office, 6 Pittock Block, Portland, for improvement levee system in Catching Inlet Drainage District, Catching Slough, Coos County, Ore.; CIVENG-35-026-57-217. Plans with above office. Bid bond 20%. Descriptio raising and strengthening existing levee placing dumped stone revetment; removin and replacing designated drainage structures, modifying existing Ross Slough tid box, all in Catching Slough, about three mi. southeast of town of Coos Bay. Quantities 76,800 c.y. levee embankment; 6,200 c.y. dumped stone revetment; 1,220 c.y. structure excavation; 3,060' piling, steel sheet 376' of bituminous coated corrugated metal pipe.
DM 5-

● GRADING, BRIDGE— Portland, Or

Bids to be opened 10 a. m., June 4, by Bureau of Public Roads, F. E. Andrews regional engineer, 753 Morgan Bldg., Port-

land (Box 3900), for 2.105 mi. grading and 80' reinforced concrete girder bridge, Oregon Forest Development Road Project Umpqua 291-B, Buckeye Creek Road, Umpqua National Forest, Douglas County, Ore. Plans with above office.

Quantities: 18 acre clearing, 12 acre grubbing; 83,000 c.y. excavation; 1,050' culvert pipe; 92 c.y. concrete; 21,000 lb. reinforcement steel; 170' steel bridge railing. DM 5-15

★**GRADING— Portland, Ore.**

Award announced by Bureau of Public Roads, 753 Morgan Bldg., Portland, for 5.488 mi. grading, Oregon Forest Highway Project 8-A3, B3, Umpqua Highway, Siuslaw National Forest, Douglas County, Ore. Bids opened May 14. AWARD: Commercial Iron Works, Inc., 2021 S.E. Grand Ave., Portland, $593,169. 2ND LOW: G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $640,447. 3RD LOW: J. Ira McNutt, Box 296, Springfield, $661,309.

WB 5-15. Previous report 4-26

■ **SEWAGE TREATMENT PLANT, INTERCEPTOR SEWERS—Roseburg, Ore.**

Planholders announced on first phase construction of a primary and secondary sewage treatment plant at the junction of Goeduck Road with Melrose Road at the west city limits and an interceptor sewer system, a project involving two schedules, Sched. I—interceptor sewer on south bank of South Fork Umpqua River and Sched. M—7,000' of sewer mains. Bids to be opened 7:30 p.m., May 20, by City Council, City Hall, Roseburg. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis.

Planholders — Sewage Treatment Plant: Lee Hoffman, Box 37, Beaverton; L. R. Dunaway, Route 1, Box 52A, Hillsboro; Trowbridge Electric, 622 S.E. Jackson, Roseburg; Joe Swearingen, Jasper; Henry Den-Herder, Box 307, Lebanon; John Steinmuller, 907 W. 3rd, Eugene; Todd Building Co., Box 27, Roseburg; John Kovtynovich, 395 Skyline Loop, Eugene; Marion Electric Co., 2715 Portland Road, Salem. Sanitary Interceptor Sewer and Sanitary Sewer Mains: Salem Sand and Gravel, 1405 N. Front, Salem; Henry Den-Herder, Box 307, Lebanon; Jeske Bros. Construction Co., 1870 Pacific Highway 99 N., Eugene; E-W Construction, 3170 W. 11th, Eugene; Henry H. Miller, 2191 N.E. Stephens, Roseburg; Riverside Construction Co., Box 3853, Portland; J. R. McAllister, 1862 N.E. Vine, Roseburg; Eugene Concrete Pipe and Products Co., Box 974, Eugene; Polson Implement Co. of Oregon, 208 S.E. Hawthorne, Portland.

DM 5-15. Previous report 4-25

● **PAVING, WALK ADDITIONS— Salem, Ore.**

Bids will be opened 2:30 p.m., May 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of paving and walk additions at the Salem substation, about 3 mi. west of Salem, Polk County, Ore.; Inv. No. 8402. Specifications with above office. Bid bond 25%.

Quantities: 4,060 sq. ft. concrete sidewalks; 280 sq. ft. reinforced concrete sidewalks; 50 c.y. excess material disposal; 210 ton asphaltic concrete. SP 5-15

WATER SUPPLY LINE— Seaside, Ore.

Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, have been retained by City, Robelt T. Urie, recorder-auditor, City Hall, Seaside, to make engineering studies on replacement of 16" steel water pipeline which brings water from South Fork of Necanicum River.

● **STORM SEWERS— The Dalles, Ore.**

Bids to be opened 8 p.m., May 20 by John B. Thomas, city clerk, City Hall, The Dalles for construction of the Oregon Avenue, Federal St. and Pentland St. storm sewers. Plans with city engineer. $20 deposit. Certified check, cashier's check or bid bond 5%. Quantities: 860 c.y. common excavation; 490 c.y. solid rock excavation; 2,825' of 6" to 15" CSP. DC-5-11

▲ **CONTROL HOUSE— Toledo, Ore.**

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the control house at Toledo Substation, east of the city limits of Toledo on the upper Olalla County Road, Lincoln County; Inv. 8373. LOW BIDS: L. B. Read, 2607 S.W. Sunset Blvd., Portland, $55,700; Grubb, Johnson & Rose, Crees Bldg., Corvallis, $58,125; John M. Steinmuller, Jr., 907 W. 3rd Ave., Eugene, $58,568. Bids opened May 8. WB 5-10. Previous report 5-1

WASHINGTON

SUBSTATION— Anacortes, Wash.

Clearing underway for construction of a new 6,000-kw substation to be located next to the reservoir on the Heart Lake Road, near Anacortes. Construction will be done by Puget Sound Power & Light Co., Ken Sherman, manager, 719 Commercial, Anacortes. Completion is expected by midsummer or early fall. ET 5-10

STREET CONSTRUCTION—Bellevue, Wash.

Bids will be called soon for opening about the first of June by Bellevue City Council, I. S. Rodley, city engineer, Bellevue, for 1,100' of street construction on N.E. 4th between 104th N.E. and 108th N.E., Bellevue, involving 800 ton of bituminous concrete or 4,700 sq. yd. of 7" portland cement and 3,000 c.y. fill. PD 5-4

21ST STREET SEWER PROJECT— Bellingham, Wash.

(Estimated cost $1,500,000)

The City Council, City Hall, Bellingham, has passed an ordinance appropriating $20,000 from the general fund for the 21st Street Sewer Project. The money will be matched by funds from Western Washington College for work on the sewer in the area, in advance of the projected comprehensive sewer project for the entire city of Bellingham. ET 5-4

TRANSMISSION, DISTRIBUTION LINES— Bellingham, Wash.

Whatcom County Commissioners, Courthouse, Bellingham, have approved a 50-year franchise for Puget Sound Power & Light Co. to construct, maintain and operate transmission and distribution electric power lines over several county roads outside the bounds of incorporated towns and cities in Whatcom County. ET 5-10

STREET LIGHTING— Bellingham, Wash.

City engineer, Ed Cameron is preparing a cost estimate for the City Council of additional mercury-vapor lights and 200-watt light-directing units and replacement of existing installations. ET 5-10

● **CULVERT, FILL— Bellingham, Wash.**

Bids will be opened 9:30 a.m., June 3, by City Council, City Hall, Bellingham, for the Commercial Street culvert and fill in Bellingham. Specifications with W. E. Cameron, city engineer, at above address.

BAKER LAKE ROAD MAINTENANCE— Bellingham, Wash.

A member of the Whatcom County Commissioners and the county engineer, Courthouse, Bellingham, have deemed unsatisfactory the present rock pit in the Baker Lake region and are checking other possible sites for the rock crusher, in preparation for extensive road maintenance work on Baker Lake Road. Funds in the amount of about $300,000 to maintain and rebuild portions of the logging road will be obtained from the forest service regional office about November. ET 5-11

● **SEWERAGE SYSTEM, TREATMENT PLANT— Bothell, Wash.**

Bids opening extended from May 28 to 8 p.m., June 10, by W. C. Caldwell, town clerk, Town Hall, Bothell, for construction of a sanitary sewerage system and sewage treatment plant, connecting with Lake Sammamish Slough and Lake Washington. Plans with Leo Daly & Associates, consulting engineers, Securities Bldg., Seattle, $50 charge, and may be inspected at Town Hall, Bothell. 5% bid bond. Quantities: 56,760' of 8" to 12" sanitary sewer line; 1 sewage lift station; 1 ejector lift station; 250,000 gal. per day mechanically activated sludge sewage treatment plant.

PD 5-15. Previous report 5-10

● **CAST IRON PIPE— Bremerton, Wash.**

Bids to be opened 10 a.m., P.S.T., May 22, by E. H. T. McGowan, city clerk, City Hall, Bremerton, for 3,000' of 16" cement lined cast iron pipe and 600' of 20" mechanical joint cast iron pipe, class 150. Plans with above office. DC 5-14

★ **IRRIGATION PUMP— Burbank, Wash.**

Award to R. M. Wade & Co., 1919 N.W. Thurman St., Portland, $2,165, by U. S. Fish & Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, for furnishing and installing one irrigation pump; Inv. FWI-5002.

WB 5-10. Previous report 4-23

★ **PIEZOMETERS—Chief Joseph Dam, Wash.**

Award to Corliss N. Smith, E. 6609 Riverside, Spokane, $6,477, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for installation and rehabilitation of piezometers at Chief Joseph Dam, on right bank of the Columbia River, near Bridgeport; CIVENG-45-108-57-68.

SP 5-11. Previous report 5-3

★ **EXCAVATION, PIPE— Colville, Wash.**

Award to C. J. Coojan, Kettle Falls, $3,231, by City Council, City Hall, Colville, for trench excavation and laying of water pipe in the city. Plans and specifications by Clarence Simpson, consulting engineer, N. 309 Argonne, Spokane. Bids opened May 7.

SP 5-14. Previous report 4-30

● **BOOSTER PUMPING STATION— Coupeville, Wash.**

Bids to be opened 8 p.m., May 27, by Town Clerk, Coupeville, for construction of a 150-gal. per min. booster pumping station with automatic controls to operate between existing tank at Coupeville and the station. Plans with Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle, $2.50 charge. Certified check or bid bond 5%. Work includes 50' of 6" steel water main connected to supply main. City of Coupeville has purchased the old Fort Casey army camp water system, and will abandon the old well-supply system upon completion of this project. PD 5-11

▲ **BARRIER WALL— Cushman Power Plant, Wash.**

Bids received by Board of Contracts and Awards, 204 City Hall, Tacoma, for construction of barried wall at Cushman Plant No. 1. Bids opened May 13. LOW BIDS: Kimball Logging & Construction Co., Shelton, $48,338. ONLY OTHER BID: Bona Fide Builders, 2430 E. 11th, Tacoma, $79,944.

EP 5-14. Previous report 5-1

SEWERAGE SYSTEM— Des Moines, Wash.

Working drawings are underway by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle, for a sewerage system (ULID No. 1) in Des Moines, for Des Moines Sewer District, R. I. Moss, secretary, Box 37, Zenith. Project will involve: 36,600' of 8" to 15" sewer pipe; 200' of 6" pressure line; 120 manholes; 6,000 c.y. bedding and roadway gravel; 770 wyes; pumping station; treatment plant. Bids will be called the latter part of this year, with construction to be complete in 1958.

PD 5-9. Previous report 12-15

● **DRAINS, PUMPING PLANT— Ephrata, Wash.**

Bids will be opened 10 a.m., June 11, by Bureau of Reclamation, Box 368, Ephrata, for deep drains and DE68V4 pumping plant, Block 45, near Othello, Adams County, Wash.; Spec. No. 117C-443. Specifications with above office. Bid bond 10%.

Quantities: 137,900 c.y. excavation; 4,200 c.y. backfill; 45 c.y. gravel protection; 17 c.y. concrete; 524' corrugated metal pipe; 808' reinforced concrete pipe. SP 5-11

PAVING, DRAINS, CURBS, GUTTERS—
Ephrata, Wash.

(Estimated cost $215,000)

Bids will be called early this summer by City Council, City Hall, Ephrata, for construction and installation of bituminous pavement, concrete curbs and gutters, storm drains, sanitary sewer lines and domestic water lines in certain portions of Ephrata. Working drawings underway by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Project was approved in the public hearing held April 22 by the council.

IG 5-10. Previous report 4-12

● GROUND WATER INTERCEPTION—
Ephrata, Wash.

Bids will be opened 10 a. m., June 4, by Bureau of Reclamation, Box 368, Ephrata, for ground water interception, West Canal, 2nd section, about 3 mi. south and west of Ephrata; Spec. No. 117C-441. Specifications with above office. Bid bond 10%.

Quantities: 3,900 c.y. common excavation for drain structures; 160 c.y. rock excavation; 3,740 c.y. backfill; 100 c.y. graded gravel; 1.3 acre grading; 110' corrugated metal pipe; 90' of 8" steel discharge pipe.

SP 5-11

★ DUMP TRUCK— **Everett, Wash.**

Award to Ralph Minor, Monroe, $6,241, by Snohomish County Commissioners, Courthouse, Everett, for one new 1957 model dump truck for use by Snohomish County Road District No. 3 in Everett. Bids opened April 22. HH 5-10. Previous report 4-9

● STREET LIGHTING— **Everett, Wash.**

(Estimated cost $96,000)

Bids will be opened 10 a. m., June 4, by City Council, City Hall, Everett, for installation of mercury-vapor street lights on aluminum standards serviced by underground wiring in the business districts of Everett. Specifications with Rod Colvin, city engineer, at above address. HH 5-10

▲ TRACTOR— **Everett, Wash.**

Bids received by City Council, City Hall, Everett, for a Fordson Major Diesel, 14 tractor or equal with backhoe and loader complete, for the Everett Water Department, Pacific and Cedar, Everett. Bids opened May 8. LOW BID: Cascade Tractor, 1021 Broadway, Everett, $8,650. ONLY OTHER BID: Pacific Hoist & Derrick, 3200 4th Ave. S., Seattle, $8,745. HH 5-11. Previous report 5-1

★ FIRE TRUCK— **Ferndale, Wash.**

Award to Roney's, Inc., 6500 N.E. Portland Highway, Portland, $13,965, by Town Council, Town Hall, Ferndale, for a new fire truck and pump to serve the Ferndale and Mountain View townships. Bids opened April 1. SP 5-15. Previous report 3-21

▲ ASPHALTIC CONCRETE PAVING—
Fircrest, Wash.

Bids received by City Council, City Hall, Fircrest, for repairing with 56,000 sq. yd. of 2" asphaltic concrete city streets south of Regents Blvd. and constructing 2,500' curb and gutter, LID No. 10, Fircrest. Bids opened May 13. LOW BID: Cascade Asphalt Paving Co., 6328 S. Tacoma Way, Tacoma, $59,146. ONLY OTHER BID: Woodworth & Co., 1200 E. D St., Tacoma, $61,062.

SP 5-15. Previous report 5-7

▲ EAGLE GORGE DAM—
Green River, Wash.

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of Eagle Gorge Dam and appurtenances at Green River; CIVENG-45-108-57-44. Bids opened May 2.

TWO LOW BIDS: Peter Kiewit Sons' Co., 1300 Aloha, Seattle, $10,874,360; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, $11,250,646. HI BID: Halvorson-Montag & Sons, Inc.-McLaughlin, Inc.-Babler Bros., Box 1449, Portland, $14,890,097. Government estimate, $6,812,627.

SP 5-11. Previous report 5-4

▲ BRIDGE CRANE—
Ice Harbor Lock and Dam, Wash.

Bids received by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for a 500-ton bridge crane for Ice Harbor dam powerhouse, Ice Harbor Lock and Dam, Wash.; CIVENG-45-164-57-67. Bids opened May 13.

LOW BIDS: Industrial Enterprises, Inc., Cudaho, Wis., $374,255; Moffett Engineering Co., Albany, Calif., $383,370; Judson-Pacific-Murphy Corp., 4200 E. Shore Highway, Emeryville, Calif., $404,266.

SP 5-14. Previous report 4-24

▲ GANTRY CRANE—
Ice Harbor Lock and Dam, Wash.

Bids received by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for a 35-ton tailrace deck gantry crane for Ice Harbor Lock and Dam powerhouse; CIVENG-45-164-57-70. Bids opened May 13.

LOW BIDS: Moffett Engineering Co., Albany, Calif., $111,616; Cyclops Iron Works, San Francisco, Calif., $135,884; Judson-Pacific-Murphy Corp., 4200 E. Shore Highway, Emeryville, Calif., $150,908.

SP 5-14. Previous report 5-2

■ BREAKWATER, BOAT BASIN—
Ilwaco, Wash.

Additional planholders announced for construction of a stone breakwater and dredging a small boat basin and dredging the west channel in Baker Bay near Ilwaco, Wash.; CIVENG-35-026-57-227. Bids will be opened 2 p. m., May 22, by Corps of Engineers, Portland District, 628 Pittock Block, Portland.

Additional planholders: Smith Bros., 3801 4th Plain, Vancouver; Walter W. Johnson Co., 141 Battery St., San Francisco; Neil R. Miller Co., Box 1033, Missoula; John F. Blakemore, 9025 G St., Oakland; Erland & Blickle, 8265 N. Borthwick, Portland; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blv., Portland.

WB 5-15. Previous report 5-4

● WATER SYSTEM IMPROVEMENTS—
Kent, Wash.

Bids to be opened 4 p. m., May 27, by City Council, City Hall, Kent, for construction of additions and improvements to the city water system. Plans with Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. $5 deposit. Certified check or bid bond 5%. Contract 1—19,330' of 16" water supply main, miscellaneous highway crossings, creek crossing, valves and fittings. Contract 2—7,300' of 8" and 1,320' of 6" cast iron water main, miscellaneous valves and appurtenances. Contract 3—East Hill Booster Pump Station involving one pump station with necessary controls. Contract 4—East Hill 125,000 gal. elevated steel tank.

DM 5-14. Previous report 5-10

● WATER WELL— **Moses Lake, Wash.**

Bids will be opened 3 p.m., May 29, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of a 12.75" diameter water well at Potholes substation, about 6 mi. west of Moses Lake, Grant County, Wash.; Inv. No. 8399. Specifications with above office. Bid bond 25%. Quantities: 250' of 12" ID casing; 250' of 6" inside diameter casing; 5 c.y. gravelpack filter materials.

SP 5-15

● GRADING, SURFACING—
Nespelem, Wash.

Bids will be opened 2:30 p. m., P.S.T., May 21, by Bureau of Indian Affairs, Portland Area Office, Roads Branch, 1-001 N.E. Lloyd Blvd., Portland (Box 4097), for grading, draining, and selected borrow base and surfacing courses on 10.85 mi. of highway near Nespelem, Colville Indian Reservation; Project CIR-609. Plans with above office.

Quantities: 104,330 c.y. unclassified excavation; 7,150 c.y. unclassified excavation for borrow, Case 1; 51,200 tons selected borrow base course; 23,500 tons selected borrow surface course; 3,622' culvert pipe and 738' pipe arch culvert, corrugated galvanized sheet metal. WB 5-10. Previous report 1-17

■ STATE HIGHWAY PROJECTS—
Olympia, Wash.

Planholders announced on highway construction for which bids will be opened a. m., May 21, by Washington State Highway Commission, Transportation Bldg., Olympia.

GRADING—MALOTT TO OKANOGAN. Clearing, draining, grading 7.165 mi. PS No. 10, Okanogan County, FAP No. F-02 (13/).

Planholders: J. N. Conley, 4332 N.E. Roy Court, Portland, Ore.; Donald M. Drake Co. 1600 N.W. Savier, Portland; K. L. Gould & Son, Box 351, Coeur d'Alene, Idaho; J. W. Hardison Co., Box 48, Yakima; Natt McDougall Co., 824 Pittock Block, Portland; C. E. Oneal, Inc., Box 270, Ellensburg; Osberg Construction Co., 1132 N. 128th, Seattle; Russell-Gillett Co., Box G, Cle Elum; San Jose Steel Co., 195 N. 30th, Yardley; J. P. Surace Construction Co., 3238 Seaview, Seattle; Western General Construction Co., 7721 36th S.W., Seattle; James Crick & Sons, Box 4228, Station B, Spokane; Farwest Fence Co., 19535 35th N.W., Seattle; F. R. Hewett Co., E. 5916 Baldwin, Spokane; United States Steel Corp., Cyclone Fence Division, 9[illegible] Pacific Ave., Tacoma; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Goodfellow Bros., Inc., Box 1337, Wenatchee; Carl Hohner, W. 730 Chelan, Spokane; Murphy Bros., Inc., E. 3728 Broadway, Spokane.

GRADING—G.N. RY. UNDERCROSSING. HAY CANYON—Clearing, draining, grading 1.241 mi. PSH No. 2, Chelan County, FAP No. F-028-1(11).

Planholders: J. Bacaloff Co., 8009 N.E. 60th, Portland; J. N. Conley, Portland; Curtis Construction Co., Box 106, Spokane; Donald M. Drake Co., Portland; K. L. Gould & Son, Seattle; Grant Construction Co., Coeur d'Alene, Idaho; J. W. Hardison, Yakima; Natt McDougall Co., Portland; C. E. Oneal Co., Inc., Ellensburg; Osberg Construction Co., Seattle; Russell-Gillett Co., Cle Elum; Sather & Sons, N. 1410 Howe, Yardley; J. P. Surace Construction Co., Seattle; Western General Construction Co., Seattle; James Crick & Sons, Spokane; Henry Hagman, 4025 W. Trent, Spokane; F. R. Hewett Co., Spokane; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; N. A. Dagestrom Co., E. 15 32nd, Spokane; Goodfellow Bros., Inc., Wenatchee; Carl Hohner, Spokane; Murphy Bros., Inc., Spokane.

BRIDGES—NEW YORK AVE. UNDERCROSSING—Two reinforced concrete slab bridges and one reinforced concrete box girder on 0.013 mi. PSH No. 1, Pierce County; FAP No. I-001-3(16).

Planholders: John E. Alexander, 1721 15th N.W., Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; Lockyear & White, Inc., Box 687, Longview; MacRae Bros., 59[illegible] 1st Ave. S., Seattle; Woodworth & Co., Inc., 1200 E. D St., Tacoma; Anderson Bridge Construction Co., 4130 S. Adams, Tacoma; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; The Hart Construction Co., 3536 E. 11th, Tacoma; Kuney Johnson Co., 12[illegible] Mercer, Seattle; Raymond Concrete Pile Co., 2323 N.W. Flanders, Portland; Soule Steel Co., Box 3685 Terminal Annex, Seattle; Wayne Construction Cot., 3810 Stone Way, Seattle.

DIVISION STREET BRIDGE—Draining, grading, constructing reinforced concrete box girder bridge on 0.109 mi. PSH No. 1 over Wenatchee River in Cashmere, Chelan County, FAP No. F-028-1(12).

Planholders: Peter Kiewit Sons' Co., Vancouver; Lockyear & White, Inc., Longview; Everett McKellar, Box 965, Chelan; Russell-Gillett Co., Cle Elum; Sather & Sons, N. 1410 Howe, Yardley; Wilson & Simpson, Box 1070, Port Angeles; Henry Hagman, Spokane; Snitily Bros. Construction Co., Box 671, Wenatchee Snook Bros., General Delivery, Colville; Soule Steel Co., Seattle; Wayne Construction Co., Seattle; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Goodfellow Bros., Inc., Wenatchee.

WHATCOM CREEK BRIDGE—Two reinforced concrete slab bridges on 0.001 mi. PSH No. 1, Whatcom County, FAP No. I-001-5(18).

Planholders: W. G. Clark Construction Co., 408 Aurora, Seattle; Peter Kiewit Sons' Co., Vancouver; Lockyear & White, Inc., Longview; Nelson Construction Co. of Ferndale, Inc., Box 417, Ferndale; Wilder Construction Co., 1480 State, Bellingham; Wilson & Simpson, Box 1070, Port Angeles; C. E. Croy, 2502 Lakeway Drive, Bellingham; Raymond Concrete Pile Co., 2323 N.W. Flanders,

Portland; Snook Bros., Colville; Soule Steel Co., Seattle; A. W. Stevens Contracting Co., 606 Fairhaven, Burlington; Wayne Construction Co., Seattle.

LITTLE WHITE SALMON RIVER BRIDGE—Reinforced concrete T-beam bridge on 0.025 mi. of Skamania County road, FAS No. S-0493(2).

Planholders: Natt McDougall Co., Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th, Portland; Wilson & Simpson, Box 1070, Port Angeles; Lee T. Dulin, 1035 W. Shinn, Kent; Hannan Bros. Co., 3525 N.E. Going, Portland; Snook Bros., Colville; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Murphy Bros., Inc., E. 3728 Broadway, Spokane.

TEITZEL BRIDGE—Reinforced concrete approaches and reinforced concrete deck on existing steel bridge on 0.038 mi. Lewis County road, FAS No. S-0625(2).

Planholders: Lockyear & White, Inc., Longview; R. L. Moss & Co., Box 37, Zenith; Pakar Construction Co., Box 447, Chehalis; Charles R. Schmiedeskamp, Portland; Wilson & Simpson, Box 1070, Port Angeles; Lee T. Dulin, 1035 W. Shinn, Kent; Snook Bros., Colville; Soule Steel Co., Seattle; Wayne Construction Co., Seattle.

PAVING — KOSMOS TO GLENOMA — Clearing, draining, grading surfacing, paving with type I-1 asphaltic concrete, stockpiling select roadway borrow, maintenance rock, crushed cover stone, crushed stone surfacing, mineral aggregates on 1.866 mi. PSH No. 5, Lewis County, a State Project.

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland; J. Arlie Bryant, Inc., and Clarence Braden, 3716 Skyview Drive, Spokane; J. N. Conley, Portland; Hardisty Construction Co., Inc., Vancouver; Interstate Asphalt Co., Inc., 905 E. Heron, Aberdeen; C. W. Thomas & Son, Box 402, Winlock; United Contracting Co., Box 5075, Portland; J. D. Shotwell Co., 3113 S. Pine, Tacoma.

PAINT BRIDGES—Cleaning, painting three bridges on PSH Nos. 2 and 15, King and Snohomish counties, G.N. Ry. overcrossing et al, a State Project, involving about 122 hours sandblast cleaning and three lump sum bids for cleaning and painting.

Planholders: A. H. Barbour & Sons, Inc., 2828 N.E. Alberta, Portland; Industrial Painters, Route 3, Box 1220, Bremerton; Andrew Nescheim, 9711 191st S.W., Edmonds; Puget Sound Painters, Inc., 6323 Brooklyn Ave., Seattle.

VENTILATION SYSTEM—Construct ventilation system on PSH No. 14, Pierce County, Tacoma Narrows Bridge Toll Plaza, a State Project. DM 5-3

No planholders at time of publication.

TOLL COLLECTION FACILITIES—Furnish, install toll collection facilities at Maple Street Bridge over the Spokane River in Spokane.

Planholders: Grant Money-Meters Co., 1117 Douglas Ave., Providence, R. I.; Electronic Signal Co., 139-05 Archer Ave., Jamaca, N.Y.; Chapman Electric, 911 Walla Walla, Renton; Taller & Copper, Inc., 75 Front, Brooklyn, N.Y.

DM 5-14. Previous report 5-3

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, for a highway construction project on which bids opened April 23.

BUILDING REHABILITATION Rehabilitation of state highway building at State and Franklin in Olympia, Thurston County; a State Project. AWARD: Cascade-Olympic Construction Co., Route 2, Box 131, Shelton, $20,425 (basic and two alts).

DE 5-10. Previous report——

●PUMP, PUMPHOUSE, PIPING— Othello, Wash.

Bid opening extended from May 20 to 8 p.m., May 27, by Georgianna Russell, city clerk, City Hall, Othello, for furnishing and installing a 1,200 gpm deep well turbine pump, construction of a pumphouse, pumphouse electrical and piping connections at Othello. Plans with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.

IG 5-11. Previous report 5-3

POWERLINE IMPROVEMENTS—— Pomeroy, Wash.

Plans announced by James Beck, district manager, Pacific Power & Light Co., for powerline improvement program at Pomeroy, including conversion of 23 mi. of power lines from 7,200-volt to 12,500-volt, installation of 100,000' new conductors, placing of 77 larger transformers and installation of 26 additional poles. MH 5-4

▲SUBSTATION, TRANSFORMER, REGULATORS— Port Angeles, Wash.

Bids received by Clallam County PUD No. 1, Oak and Boulevard, Port Angeles, for substation structures and substation equipment, including the following: Group 1—one rural type substation structure, including high and low voltage switches, protection, metering equipment, bus work and fencing; Group 2—one 3,750-kva, 3-phase, 67,000-7,620/13,800-volt transformer; Group 3—three 200-amp 7,620-volt regulators or one 500-kva 3-phase, 7,620/13,800-volt regulator; Group 4—complete substation unit. Bids opened April 30. LOW BIDS—GROUP 1: North Coast Electric Co., 171 Jackson St., Seattle, $18,948; Line Material Industries, 1221 W. Nickerson St., Seattle, $19,287; Schwager-Wood Corp., 8024 S.W. 35th Ave., Portland, $23,190. GROUP 2: Central Transformer Co., Box 687, Pine Bluff, Ark., $22,644; Wagner Electric Corp., 1904 3rd Ave., Seattle, $24,666; Maydwell & Hartzell, Inc., 206 Dexter Ave., Seattle, $25,410. GROUP 3: Graybar Electric Co., King and Occidental streets, and General Electric Supply Co., 1212 1st Ave. S., both of Seattle, $12,522 (identical bids); North Coast Electric Co., Seattle, $20,405. GROUP 4: Allis-Chalmers Mfg. Co., 5538 Henry Bldg., Seattle, $54,157; Westinghouse Electric Supply Co., 1051 1st Ave. S., Seattle, $55,224; General Electric Supply Co., Seattle, $56,200.

SP 5-14. Previous report 4-2

★PIPE— Port Townsend, Wash.

Award to Hydraulic Supply Mfg Co., 7500 8th Ave. S., Seattle, $195,167, by City Council, City Hall, Port Townsend, for furnishing 14,060' of electric welded steel pipe, coal tar coated and asbestos wrapped, to be delivered in vicinity of Olympic Highway, crossing near Crocker Lake, Jefferson County, along Olympic gravity pipeline right-of-way. SP 5-11. Previous report 4-27

★PUMP— Pullman, Wash.

Award to Mays Farm Equipment Co., Lacrosse, $10,838, by City Council, City Hall, for a 1,100-gal. deep well turbine pump for City Well No. 4. Bids opened April 29. MH 5-10. Previous report 4-18

●TIMBER BRIDGE— Randle, Wash.

Bids will be opened 2 p.m., May 27, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland (Box 4137), for construction of 39' treated timber Adams Creek Bridge on Randle Trout Lake Road No. 123.1, approximately 25.9 mi. southeast of Randle, Skamania County, Wash., Gifford Pinchot National Forest, 801 W. 8th St., Vancouver. WB 5-10

●GRADING, BRIDGES— Randle-Yakima Highway, Wash

Bids to be opened 10 a.m., May 29 by Bureau of Public Roads, F. E. Andrews, regional engineer, 753 Morgan Bldg. (Box 3900) Portland for 7.302 mi. grading and two reinforced concrete bridges totaling 160', Washington Forest Highway Project 13-A1,B1,D2, unit 2, Randle-Yakima Highway, Gifford Pinchot National Forest, Lewis County, Wash. Plans with above office.

Quantities: 80 acre clearing; 50 acre grubbing; 710,000 c.y. excavation; 1,123,000 sta. yd. overhaul; 465,000 c.y. mi. overhaul; 281 c.y. concrete; 80,700 lb. reinforcing steel; 2,200' culvert pipe. DM 5-15

●CLEARING, ERECTING TOWERS— Raymond, Wash.

Bids will be opened 3 p.m., May 24, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing the right-of-way, erection of steel towers and removal of steel towers on the Raymond-Raymond tide flats line relocation, beginning about ½ mi. south of the Raymond substation and terminating adjacent to the substation, Pacific County, Wash.; Inv. No. 8394. Specifications with above office. $25 deposit. Bid bond 25%.

Quantities—SCHED. 1: 1 c.y. adjustment for rock excavation in footing; 1 c.y. rock; clearing r/w from Sta. 666+86.6 to Sta. 661+45. SCHED. 2: Installation of towers and earth footing; clearing r/w from Sta. 661+45 to Sta. 646+63.0. SP 5-11

▲WATERMAIN— Renton, Wash.

Bids received by King County Water District No. 92, Paul C. Patterson, secretary, 6649 112th S.W., Renton, for construction of a watermain from a Seattle pipe line west on S.E. 69th to 116th S.E., Renmton. Bids opened May 13. Plans by Gardner & Hitchings, consulting engineers, 613 Arctic Bldg., Seattle. LOW BIDS: Mallory & Compton, Inc., 13751 Aurora, Seattle, $16,358; Superior Construction, 4610 37th S.W., Seattle, $17,375; Harold Kaeser Co., 3629 34th S., Seattle, $18,090. PD 5-15. Previous report 5-11

★STEAM LINE, WATER EQUIPMENT— Richland, Wash.

Award to Paul E. Hughes, Kennewick, $57,973, by Atomic Energy Commission, Richland, for replacement of steam line supports and water line valve enclosures and related work in the 100 area of the Hanford Works; Inv. No. 45-1-1187. Completion time 125 calendar days.

DC 5-10. Previous report 5-3

NATURAL GAS SYSTEM—Ritzville, Wash.

Construction underway under the supervision of Byron T. Holt, Havre, Mont., for bringing a natural gas system to Ritzville. Installation is by Eastern Washington Natural Gas Co. which is maintaining an office in the Oddfellows Bldg., Railroad Ave., Ritzville. A 4" line will be laid from the inter-city line, five mi. to the center of downtown Ritzville. MH 5-4

▲MAINTENANCE DREDGING— Seattle, Wash.

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for 530,000 c.y. maintenance dredging, the depth of which is 20' from 1st Ave. S. to 8th Ave. S. and 15' from 8th Ave. S. to head of waterway, Seattle Harbor, Duwamish River, Seattle; CIVENG-45-108-57-65. Bids opened May 13.

LOW BID: General Construction Co., 3840 Iowa, Seattle, $313,200. ONLY OTHER BID: Puget Sound Bridge & Dredging Co., 2929 16th S.W., Seattle, $321,900. Government estimate, $365,400.

SP 5-14. Previous report 5-4

▲BITUMINOUS SURFACING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for approximately 27.80 mi. of road mix bituminous surfacing and .91 mi. of asphaltic concrete paving between Seattle and Lake Burien in the Southwest Suburban Sewer District. Bids opened May 13. LOW BIDS: Washington Asphalt Co., 309 W. 39th, Seattle, $296,099; S & S Surfacing Co., 8328 15th N.W., Seattle, $296,705; Associated Sand & Gravel Co., Box 914, Everett, $301,139.

PD 5-14. Previous report 5-9

▲FENCING— Seattle, Wash.

San Jose Steel Co., Inc., 7034 15th N.W., Seattle, was low bidder at $2,310 when bids were opened May 6 by city purchasing department, County-City Bldg., Seattle, for furnishing, installing 480' of 7' chain link fence. PD 5-8. Previous report 4-25

▲CLEARING, GRADING, BITUMINOUS SURFACING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, grading, draining, ballasting, road-mix bituminous surfacing plus standard precast concrete slab bridge span on 3.69 mi. of Kent-Kangley Road, PSW No. 5 to Enumclaw-Selleck Road. Bids opened May 13. LOW BIDS: Lake City Gravel & Ma-

terials, Inc., 10728 Bothell Way, Seattle, $102,482; R. L. Moss, Zenith, $125,483; All City Excavating Co., 8114 9th Ave. S.W., Seattle, $128,939.

PD 5-14. Previous report 5-9

● CEMENT CONCRETE PAVING— Seattle, Wash.

Bids will be opened 9:30 a.m., June 3, by King County Commissioners, 606 County-City Bldg., Seattle, for 0.264 mi. of cement concrete pavement of Airport Way extension revision, adjacent to King County Airport (Boeing Field). Specifications with county engineer, 905 County-City Bldg., Seattle. $10 deposit. 5% bid bond.

Project involves: 6,095 c.y. common, common trench and structure excavation; 5,000 ton roadway borrow; 8 ton asphaltic cement in place; 70 ton type I-1 asphaltic concrete; 100 ton crushed cover stone; 7,442 sq. yd. cement concrete pavement; 3,540 pavement reinforcement; 6' of 18" standard reinforced concrete culvert pipe. PD 5-14

▲ SPRINKLER SYSTEM, ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Bids received May 7 by Paul R. Hendricks, city purchasing agent, City-County Bldg., Seattle, for installation of sprinkler system at Haller Lake Playground and asphaltic concrete paving at Carkeek Park. LOW BIDS: T. Yorozu Landscaping Co., 15335 32nd, Seattle, $1,748 (sprinkler system); Diesel Oil Sales, 2155 Northlake, Seattle, $1,600 (paving). PD 5-8. Previous report 5-1

★ LIGHTNING ARRESTORS— Seattle, Wash.

Award to Line Material Industries, 1220 W. Nickerson, Seattle, $2,100, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 200, 3 KV type lightning arrestors.

PD 5-10. Previous report 4-23

★ FENCING— Seattle, Wash.

Award to San Jose Steel Co., Inc., 7034 15th Ave. N.W., Seattle, $2,310, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing, installing 480' of 7' chain link fence.

PD 5-10. Previous report 5-8

★ REGULATING GATES, ACCESSORIES— Seattle, Wash.

Award to Guy F. Atkinson Co., Box 7528, Portland, $397,000, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing two fabricated 47'x40' regulating gates and accessories for spillway at Gorge High Dam.

PD 5-10. Previous report 5-8

★ ALUMINUM— Seattle, Wash.

Award to Clingan & Fortier, Inc., 3210 Airport Way, Seattle, $1,947, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 226 sheets of aluminum.

PD 5-10. Previous report 4-25

★ SPRINKLER SYSTEM— Seattle, Wash.

Award to J & W Construction Co., 4100 E. Marginal Way, Seattle, $3,202, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing a sprinkler system at the W. J. Dahl Playfield, Seattle.

PD 5-10. Previous report 5-4

● WATERMAIN— Seattle, Wash.

Correction: Bids to be opened May 22 (not May 27), by Board of Public Works, 512 County-City Bldg., Seattle, for installation of 27,440' of watermain in LID No. 6154, Mary Ave. N.W., et al.

DM 5-10. Previous report 5-8

▲ WATER LINE— Seattle, Wash.

Official tabulation has revealed the following low bids received May 8 by Board of Public Works, E. G. Henry, secretary, room 512, County-City Bldg., Seattle, for installation of 13,210' of pipe line on W. 100th St. from Dibble Ave. N.W. to W. 100th Place, Seattle. LOW BIDS—Alt. A (steel): Valley Construction Co., 7722 Rainier Ave., Seattle, $297,630; Lario Libri, 5960 Empire Way, Seattle, $303,798; Frank Coluccio, 7778 Seward Park Ave., Seattle, $304,871. Alt. B (concrete): Frank Coluccio, $294,106; Valley Construction Co., $295,945; Lario Libri, $300,965.

PD 5-10. Previous report 5-9

★ WATERMAINS, SEWERS— Seattle, Wash.

Award to Sposari & Macri, 983 22nd, Seattle, $10,185 (LID No. 6125), by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for installation of a watermain at 55th Ave. N.E. and 56th Place N.E., Seattle. Award of West Rose St. sewer installation contract was reported in PCD 4-5. PD 5-11. Previous report 4-5

★ BRIDGE REPLACEMENT— Seattle, Wash.

Award to Dale Madden, 3010 E. 163rd, Seattle, $9,846, by Department of the Army, Seattle Army Terminal, Procurement Division, room 300, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for replacement of bridges over depressed track (E-120-57) R & U; Inv. No. TC-45-045-57-102B.

PR 5-11. Previous report 4-26

★ AIR COMPRESSOR— Seattle, Wash.

Award to Washington Machinery Company, 7329 E. Marginal Way, Seattle, $2,491, by Department of the Army, Seattle Army Terminal, Procurement Division, room 300, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for furnishing an air compressor for the terminal's plant engineer division. PD 5-11

■ BULKHEAD REPLACEMENT— Seattle, Wash.

Planholders announced for bulkhead replacement, consisting of a quay wall with prestressed concrete piles, and a fender system of treated piles, at Pier 90, U.S. Naval Supply Depot, Seattle; Spec. No. 6592/57. Bids will be opened 2 p.m., May 23, by 13th Naval District, room 100, Bldg. 232, U.S. Naval District, Seattle.

Planholders: Dale Madden, 3010 E. 163rd; Larsen Construction, 4608 Colman Bldg.; General Construction Co., 3840 Iowa; American Pile Driving, Pier 2, Everett; Wayne Construction Co., 3810 Stone Way; Manson Construction & Engineering Co., 5209 E. Marginal Way; West Coast Construction Co., 835 W. 48th. All of Seattle unless otherwise noted. PD 5-11. Previous report 5-2

★ METERS— Seattle, Wash.

Award to Hersey Manufacturing Co., 1231 N.W. Hoyt, Portland, $3,882, only bidder, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for two 8" Hersey Detector meters. Bids opened May 6.

PD 5-11

▲ ROOF— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for construction of four-ply built-up roof over existing concrete roof, with a float coat, on a sewage treatment plant at 10515 39th Ave. N.E., Seattle. Bids opened May 10. BIDS: Independent Sheet Metal Corp., 1723 Westlake N., Seattle, $2,366; Associated Roofing & Metal Corp., 3918 6th Ave. N.E., $2,992; A B C Roofing & Siding, Inc., 41 Hinds, $3,194. PD 5-11. Previous report 5-3

● TRACTOR— Seattle, Wash.

Bids to be opened 10 a.m., May 21 by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle for furnishing tractor with back hoe and front loader. Plans with above office. DM 5-11

● CULVERT PIPE— Seattle, Wash.

Bids will be opened 9:30 a.m., May 20, by King County Commissioners, W. G. Carroll, purchasing agent, 402 County-City Bldg., Seattle, for furnishing 60' of 10 gauge 60" mult-plate corrugated arch culvert pipe. 5% bid bond. PD 5-11

● SPRINKLER SYSTEM— Seattle, Wash.

Bids will be opened 10 a.m., May 21, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for installation of sprinkler system at the Old Interbay Playground. Specifications with above office. PD 5-1

▲ COAL LOADING FACILITY— Seattle, Wash.

Bids received by C. H. Carlander, secretary, Port of Seattle, 406 Bell Street Terminal, Seattle, for construction of a coal loading facility at the Port's Pier 42, Dearborn Street Terminal. Bids opened May 1

LOW BIDS: General Construction Co., 3840 Iowa, Seattle, $114,000; Larsen Construction Co., Colman Bldg., Seattle, $123,45; Link-Belt Co., 3405 6th Ave. S., Seattle, $128,840. PD 5-15. Previous report 5-1

★ SPRINKLER SYSTEM— Seattle, Wash.

Award to T. Yorozu Gardening Co., 122 32nd Ave. S., $7,797 (galvanized iron pipe basic bid plus galvanized iron pipe alternate), by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for installation of a sprinkler system at Jefferson Park Playground.

PD 5-15. Previous report 4-1

■ WATERMAIN— Seattle, Wash.

Planholders announced for installation of 27,440' of watermain on Mary Ave. N.W., LID No. 6154. Bids will be opened 2 p.m., May 27, by E. G. Henry, secretary, Board of Public Works, 512 County-City Bldg., Seattle.

Planholders: Ace Construction, 7516 Roosevelt Way; H. D. Fowler Co., Inc., 901 Lane; Argentieri & Colarossi, 1815 Jackson; Frank Coluccio Construction Co., Inc., 7778 Seward Park Ave.; Harold Kaeser Co., 3629 34th S.; Joe Lundberg Construction Co., 3420 12 S.W.; Pacific Water Works Supply Co., 2 1st Ave. S.; Superior Construction Co., 46 37th S.W.; Donald Bingham, 20717 Highway 99, Lynnwood; Sposari & Macri, 983 22 Ave.; Lario Libri Construction Co., 2 Empire Way. Of Seattle unless otherwise noted. PD 5-15. Previous report 5-

▲ GATE VALVES— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing six 12" gate valves, flanged. Bids opened May 14. LOW BIDS: Fred G. Greaves Co., 418 8th Ave. N., $9 Western Utilities Supply Co., 5409 Ohio, $9 H. D. Fowler Co., Box 3084, $972.

PD 5-15. Previous report 5-

▲ PUMPING UNIT, CONTROLS— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing three centrifugal pumping units and controls for Bitter Lake Pumping Station. Bids opened May 14. LOW BIDS: R. M. Wade & Co., 532 1st Ave. S., $25,680; Allis-Chalmers Manufacturing Co., 5538 Henry Bldg., $25,994; DeLaval Turbine Pacific Co., 535 1st Ave. W., $26,000.

PD 5-15. Previous report 5-

● SEWER PUMPING SYSTEM— Seattle, Wash.

Bids to be opened 2 p.m., May 21, by Frank M. Brock, secretary, Seattle School District No. 1 at office of purchasing department, 815 4th Ave. N., Seattle, for construction of a sewer pumping system for Southwest Seattle High School (Chief Seattle High School) located at W. Thistle and 27th S.W. and W. Kenyon, Seattle. Plans with Naramore, Bain, Brady & Johanson, architects, 904 7th, Seattle. $25 deposit. Certified check or bid bond 5%.

Description: reinforced concrete vault 10'x10'x14', 30' below ground, to house pumps; about 1,700' of 6" pressure main; 11,425 c.y. excavation; 3,149 c.y. concrete; 156 ton reinforcing steel; 74 ton structural steel; 3,710 sq. ft. cement-asbestos wall board. Equipment will include four primary clarifiers, four flow meters, four floating covers 55' diameter, two chlorinators, two sludge pumps, two water pumps and air pumps, two sludge recirculator pumps; hard sprinkler system; 1,600 sq. yd. asphaltic concrete paving. PD 5-1

● SEWAGE TREATMENT PLANT— Seattle, Wash.

Bids to be opened 2 p.m., May 29, by

Board of Public Works, 512 County-City Bldg., Seattle, for construction of the Alki sewage treatment plant; Ord. No. 85593. Plans with city engineer, 404 County-City Bldg., Seattle. $10 deposit. Certified check 5%. Plans were prepared by Hammond, Collier & Isaac, engineers, 4010 Stone Way, Seattle. DM 5-15

■ **GRADING, SURFACING— Seattle, Wash.**

Planholders announced for draining, grading, surfacing with crushed stone 1.86 mi. of 116th S.E. from SSH No. 5-A to S.E. 232nd St., King County. Bids will be opened 9:30 a.m., May 27, by King County Commissioners, 402 County-City Bldg., Seattle.

Planholders: Anderson & Akers, 4756 Fauntleroy; Dale Madden, 3010 E. 163rd; L. L. Newburn, 6262 14th S.; W. J. Halloran, 416 Virginia St.; Bass Construction Co., 12526 Aurora; The Ballard Co., 1537 Ballard Way; R. L. Moss & Co., 512 21st S.; Excavators, Inc., 5756 29th N.E.; Kent & Tucker, 1431 134th Ave. N.E., Bellevue. All of Seattle unless otherwise noted.

PD 5-15. Previous report 5-8

■ **BRIDGE PIER REPAIR— Seattle, Wash.**

Planholders announced for repairing piers of bridge No. 3179 over Duwamish Waterway at 14th Ave. S., Seattle. Bids will be opened 9:30 a.m., May 20, by King County Commissioners, 606 County-City Bldg., Seattle.

Planholders: Pacific Pools Co., 815 Blanchard, Seattle; J. T. Broadfoot Co., 8031 Bothell Way, Seattle; Intrusion-Prepakt, Inc., 300 12th, Seattle. PD 5-15. Previous report 5-9

● **ROAD IMPROVEMENTS—Spokane, Wash.**

Bids to be opened 11 a.m., May 24, by Spokane County Commissioners, Courthouse, Spokane, for County Road Project No. 300, Forker Road, consisting of grading, draining, surfacing 0.94 mi. Plans with county engineer, above address. $2 deposit. Certified check or cashier's check 5%. Quantities: 10,840 c.y. common excavation; 4,630 c.y. solid rock excavation; 2,840 c.y. borrow; 1,060 c.y. crushed stone surfacing; 86' corrugated metal pipe. DC 5-10

CONCRETE BRIDGE— Stevenson, Wash.

Additional description given on 85' concrete bridge over North Fork of Washougal River, Skamania County, on which bids will be opened 11 a.m., May 20, by Skamania County Commissioners, Courthouse, Stevenson. Plans with N.W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland, or with County Engineer, Stevenson. $10 deposit. Certified check, cashier's check or bid bond 5%.

Contractors may bid on conventional reinforced box girder design, or precast and prestressed girder span. Conventional design will require 231 c.y. concrete; 26 c.y. tons reinforcing steel; 3,000 lbs. miscellaneous iron. Precast, prestressed design will require 66 c.y. cast-in-place concrete; three tons reinforcing steel; 10, 85' prestressed girders and 3,000 lbs. miscellaneous iron.

WB 5-11. Previous report 5-9

★**CULVERT— Tacoma, Wash.**

Award to Coast Contractors, 1624 Tacoma Ave., Tacoma, $6,921, by Pierce County Commissioners, Courthouse, Tacoma, for construction of a 42" extra strength reinforced concrete culvert, roadway embankment and fill and other work on E. 80th St. in Pierce County, CRP No. 1642.

SP 5-11. Previous report 5-9

▲**PAVING, CURB AND GUTTER, SEWER— Tacoma, Wash.**

Bids received by Board of Contracts and Awards, 204 City Hall, Tacoma, for asphalt pavement, concrete curb and gutter and storm sewer on Melrose St. and State St., LID No. 4584, and on N. 8th St., LID No. 4594, and for asphaltic pavement, concrete curb and gutter on Junett St. from S. 56th to S. 54th streets and asphaltic pavement between existing concrete curbs from S. 54th to S. 52nd streets, LID No. 5611, Tacoma. Bids opened May 13. LOW BIDS—LID 4584: Woodworth & Co., Inc., 1200 E. D St., $23,411; Paine & Gallucci, Inc., 1521 S. Grant, $24,806; Milone & Tucci, Inc., 3215 S. M St., $25,304. LID 4594: Woodworth & Co., Inc., $15,497; Paine & Gallucci, Inc., $16,191; Milone & Tucci, Inc., $16,562. LID 4611: Woodworth & Co., Inc., $8,711; Concrete Construction Co., Box 96, $9,723; Lige Dickson Co., 3315 S. Pine, $10,048. All of Tacoma.

SP 5-14. Previous report 5-10

▲**GRADING, PLACING GRAVEL— Tacoma, Wash.**

Bids received by Port of Tacoma, Archie E. Blair, secretary, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for grading and placing backrun gravel on areas within the terminal property. Bids opened May 8. LOW BIDS: Coast Contractors, 1624 S. Tacoma Ave., Tacoma, $1.18 per c.y.; Woodworth & Co., Inc., 1200 E. D St., Tacoma, $1.445 per c.y.; Kendall Construction Co., 3711 Center St., Tacoma, $1.80 per c.y.

SP 5-11. Previous report 4-30

★**STEEL BODIES— Tacoma, Wash.**

Award to Totem Equipment Co., 3706 Airport Way, Seattle, $23,100, by Board of Contracts and Awards, 204 City Hall, Tacoma, for furnishing, delivering and installing four enclosed steel bodies, fully equipped for power. It has been recommended that all bids be rejected on the chassis. Low bidder on April 22 was Diamond T Trucks, 2302 A St., Tacoma, $22,312.

SP 5-15. Previous report 4-24

● **LADDER SAFETY EQUIPMENT— The Dalles Dam, Wash.**

Bids will be opened 11 a.m., May 27, by Corps of Engineers, 628 Pittock Block, Portland, for ladder safety equipment for five ladders, including 240' of carrier rail, and 50 runners with belts, fob The Dalles Dam, Wash.; CIVENG-35-026-57-241. WB 5-15

STREET EXCAVATION— Toppenish, Wash.

Bids rejected by City Council, City Hall, Toppenish, for street excavation in Toppenish. Work will be done by city crews.

IG 5-10. Previous report 4-19

★**INTAKE CRANE, PUMP— Wenatchee, Wash.**

Award to American Hoist Pacific Co., 4975 3rd S., Seattle, $264,971, by Chelan County PUD No. 1, 327 N. Wenatchee Ave., Wenatchee, for designing, furnishing and delivering one intake deck gantry crane of 150 ton capacity, and for furnishing and delivering fishway jet pumps for the Rocky Reach Hydroelectric Project. Plans and specifications by Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seattle. Award contains optional provision to substitute Item 1a for Item 1, making the contract amount $244,504. SP 5-14. Previous report 3-26

▲**FLOATING CAISSON TRASH RACKS, GUIDES— Wenatchee, Wash.**

Bids received by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Billings, for (1) designing and furnishing a steel floating caisson approximately 60' long by 70' high including operating equipment, and (2) furnishing intake trash racks and trash rack guides for Rocky Reach Hydroelectric Power Project. Plans and specifications by Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seattle. Bids opened May 10. CAISSONS—ONLY BIDS: Gate City Steel, 4000 Warm Springs Ave., Boise, Idaho, $415,957; Commercial Steel Fabricators, Inc., 2929 16th S.W., Seattle, $435,087; Isaacson Iron Works, 8531 E. Marginal Way, Seattle, $476,622.

SP 5-14. Previous report 4-12

★**GANTRY CRANE, TRANSFORMER— Wenatchee, Wash.**

Award to Moffett Engineering, Inc., Albany, Calif., $152,000, by Chelan County PUD No. 1, 327 N. Wenatchee Ave., Wenatchee, for designing and furnishing one 80 ton capacity (two hooks of 40 tons each) draft tube deck gantry crane, complete with a 5-ton capacity trolley mounted, auxiliary hoist, for furnishing and delivering seven 120,000-kva main transformers, 3-phase, 60-cycle, for the Rocky Reach Hydroelectric Project on the Columbia River. Specifications by Stone & Webster, 707 Lloyd Bldg., Seattle. SP 5-15. Previous report 4-2

★**CIRCUIT BREAKERS, CRANES— Wenatchee, Wash.**

Award to Pacific Coast Engineering Co., Alameda, Calif., $498,000, by Chelan County PUD No. 1, 327 N. Wenatchee Ave., Wenatchee, for furnishing and delivering two 250-ton capacity traveling powerhouse cranes for the Rocky Reach Hydroelectric Project on the Columbia River. Specifications by Stone & Webster Engineering Co., 707 Lloyd Bldg., Seattle. No award yet for circuit breakers. SP 5-15. Previous report 3-19

★**CONTROL EQUIPMENT ASSEMBLY— White Bluffs Pumping Plant, Wash.**

Award to Electric Machinery Mfg. Co., Minneapolis, Minn., $26,200 fob Othello, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering one 2,500-volt metal-enclosed indoor type, motor control equipment assembly for White Bluffs Pumping Plant No. 1, Wahluke Branch canal laterals, Block 20, Columbia Basin Project, Wash.; DS-4855. SP 5-10. Previous report 4-11

● **BREAKWATER— Willapa Bay, Wash.**

Bids will be opened 2 p.m., June 6, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of the Nahcotta Breakwater involving rock breakwater 1,820' long, with 6' crest, to elevation +15.0 above M.L.L.W. with approximately 1,370' of the breakwater being constructed in an east-west direction south of Lincoln St. dock, and 450' of breakwater in a northerly direction along Nahcotta Channel, Willapa Bay; CIVENG-45-108-57-73. Specifications with above office.

Quantities: 24,000 ton class A armor rock; 24,000 ton class B rock; 3,600 ton quarry spall blanket. SP 5-11

▲**GRADING, DRAINING, STOCKPILING— Yakima, Wash.**

A low bid correction has been released by Yakima County Engineer, Courthouse, Yakima, on grading, draining, manufacturing, placing surfacing material and stockpiling additional materials for 11.74 mi. of county roads in the vicinity of Yakima and Cowiche;; CRP No. 417, LCRP No. 672, CHP No. 678, CRP No. 679. LOW BID: C. J. Painter, Box 51, Pasco, $197,090 (corrected from $203,090). IG 5-14. Previous report 5-11

★**ASPHALT DISTRIBUTOR—Yakima, Wash.**

Award announced by James Smith, city clerk, City Hall, Yakima, for purchase of an asphalt distributor for the Street Department at Yakima. Bids opened May 6. AWARD: Howard-Cooper Corp., 5821 N.E. Glisan, Portland, Ore., $5,485 (Model BXENYRE). IG 5-10. Previous report 4-30

AIRPORT IMPROVEMENTS—Yakima, Wash.
(Estimated cost $45,000)

Construction underway by C & E Construction Co., Inc., 2202 Rudkin Road, Yakima, for a 500' asphaltic concrete runway extension, Runway 9-27, at the Yakima Municipal Airport. Plans and specifications by Sam Hobbs, city engineer, City Hall, Yakima. This project was originally awarded to C & E Construction (bid opening November 5 last year) and then postponed because of financial trouble. The CAA approved a grant recently for the work.

IG 5-10. Previous report 4-4

STREET IMPROVEMENTS— Yakima, Wash.
(Estimated cost $13,500)

Working drawings underway by Sam Hobbs, city engineer, City Hall, Yakima, for grading, ballasting and surfacing with asphaltic concrete on S. Front St. and the same work plus construction of concrete curbs and gutters on Logan Ave. and Petzel Ave. in Yakima. Another project, previously announced with the above, has been dropped owing to expense (estimated at $104,000). The project involved grading, draining, ballasting and surfacing on one side of Sunset Drive, Lincoln Ave., et all. Both projects were discussed in the public hearing held May 6 by the council.

IG 5-10. Previous report 4-23

CURBS, GUTTERS, SIDEWALKS, SURFACING— Yakima, Wash.

Project dropped due to the results of a public hearing held May 6 by City Council, City Hall, Yakima, for construction of concrete, curbs, gutters and sidewalks and surfacing with asphaltic concrete sections of Gilbert School in Yakima.

IG 5-10. Previous report 5-4

★AIRPORT IMPROVEMENTS— Yakima, Wash.

Construction will start soon by Olsen Electric Co., 710 W. 8th, Vancouver, $69,900 contract, according to City Council, City Hall, Yakima, for installation of a high intensive lighting system on Runway 9-27 at the Yakima Municipal Airport. Plans and specifications by Leo Daly & Associates, consulting engineers, Securities Bldg., Seattle. This project was previously postponed due to financial difficulties. For details on the runway extension part of th's project, see PCD 5-10.

IG 5-15. Previous report 4-4

IDAHO

AIRPORT IMPROVEMENTS— Boise, Idaho
(Estimated cost $103,500)

Plans approved by City Council, City Hall, Boise, for an airport improvement program, including complete reconstruction of 1,700' of the instrument runway, additional unloading space and additional automobile parking space, at the Boise Airport, for Boise Airport Commission, Don Duvall, airport manager, Boise. The program has yet to be approved by the Civil Aeronautics Commission which would pay 52.6% of the total cost.

SC 5-9

STREET OILING— Boise, Idaho

Two special improvement districts have been created by City Council, City Hall, Boise, for the oiling of 28th St. from State St. to Anderson St. (estimated cost $58,595) and for oiling of Pierce St., E. Hays St., Logan St. et al (estimated cost $62,733) is Boise. Work will be done this summer.

SC 5-10

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., June 4, by Department of Highways, 603 Main St., Boise, for a highway construction project. Specifications with above office and with district engineer at Coeur d'Alene. $5 deposit. Certified check, cashier's check or bid bond 5%.

BITUMINOUS SURFACING—U. S. HIGHWAY 2: Construction of roadway and plantmix bituminous surfacing on 4.757 mi. between the Washington State Line and Priest River, Bonner County; FAP No. F-5121(3).

Quantities: 359,025 c.y. excavation; 66,500 c.y. selected borrow; 41,500 gal. asphalt road materials; 12 c.y. concrete; 5,310' pipe culvert; 49,800 ton crushed gravel base. SP 5-15

TRANSMISSION LINE— Boise, Idaho

Construction is underway by Morrison-Knudsen Co., 319 Broadway, Boise, for the 100 mi. transmission line between Boise and the hydroelectric development on the Snake River at Brownlee for Idaho Power Co., 807 Idaho, Boise. The line is estimated to cost about $4,500,000. See PCD 12, 11 and 2-24, 1956.

DC 5-11

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., May 28, by Department of Highways, 603 Main St., Boise, for a highway construction project. Specifications with above office. $5 deposit. Certified check, cashier's check or bid bond 5%. Completion time September 15, 1957.

SURFACING, STOCKPILING—MT. HOME-DIXIE: Constructing the surface and a bituminous surface treatment on 12.886 mi. Tollgate-Dixie and seal coating on 9.3 mi. Mountain Home-Tollgate, SH No. 68, and furnishing crushed rock in stockpile, Elmore County; FAP No. S-3809(1). State Proj. No. ST-M-3809(505) and Stockpile No. 203.

Quantities—S-3809(1): 77,200 ton crushed rock base course; 122,000 gal. asphalt road material; 5,650 ton cover coat material; ST-M-3809(505): 38,250 gal. asphalt road material; 1,925 ton cover coat material; 480 ton rejects in stockpile. STOCKPILE PROJ.: 15,000 ton of ¾" maximum crushed rock.

SP 5-10

WATER, SEWER SYSTEM— Cottonwood, Idaho

Two bond issues approved in the special election held by Town Council, Town Hall, Cottonwood, for $18,000 to finance adequate water facilities and $42,000 for sewerage facilities in Cottonwood. Plans and specifications will be authorized upon completion of financing and will be prepared by W. E. Thompson, consulting engineer, 224 Realty Bldg., Spokane. Bids will be opened about July 1.

SP 5-10. Previous report 3-6

SEWAGE DISPOSAL— Genessee, Idaho

Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, has been retained by City Council, City Hall, Genessee, to conduct a survey of sewer disposal requirements of Genessee and to make suggestions on solving sanitation problems. A bond election will be held for the sewage disposal improvements.

SC 5-4

★FISH PONDS, INTAKE STRUCTURE— Hagerman, Idaho

Award to W. R. Cahoon Construction Co., 3208 Pole Line Road, Pocatello, $24,658, by U. S. Fish & Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of six concrete fish ponds, one concrete intake structure, approximately 700' of 24" steel pipe and other related work at the U. S. Fish Cultural Station near Hagerman, Idaho.

WB 5-10. Previous report 4-25

★PUMPING PLANT, TANK, DISTRIBUTION SYSTEM— Hayden Lake, Idaho

Correction. Award to Chicago Bridge & Iron Co., White-Henry-Stuart Bldg., Seattle, $57,785, by Bureau of Reclamation, at Hayden Lake Corners, Hayden Lake, for Schedule 2, involving a 75,000-gallon elevator steel water storage tank, of the Rathdrum Prairie Project' Idaho; Spec. No. DC-4864. Schedules 1 and 3, involving the Hayden Lake pumping plant and distribution system, were awarded to the Intermountain Co., 1322 Grove, Boise. It was inadvertently reported in PCD 5-11 that Intermountain Co. was awarded all three schedules.

SP 5-14. Previous report 5-11

●BITUMINOUS SURFACING— Idaho Falls, Idaho

Bids opening has been extended from May 15 to May 24 by Atomic Energy Commission, Idaho Operations Office, Box 122, Idaho Falls, for surfacing about 47 mi. of roadway and 62,000 sq. yds. of parking areas and interior plant roads at National Reactor Testing Station in Idaho; AT(10-1)-900.

DM 5-14. Previous report 5-2

★RADIOACTIVE WASTE FACILITIES— Idaho Falls, Idaho
(Estimated cost $1,900,000)

The Fluor Corp., Ltd., Los Angeles, Calif., has been awarded a letter contract by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of storage tanks and related facilities to handle radioactive wastes at the National Reactor Testing Station in Idaho; Letter Contract No. AT(10-1)-890. Completion time June 30, 1958. Specifications call for construction of two 300,000-gallon stainless steel tanks with necessary piping; installation of necessary yard piping for interconnecting piping system between tanks and control facilities; installation of necessary yard area piping to existing tank area including air-lift pit, pump pit and associated pumps and piping tie-ins.

SP 5-9

MONITORING SYSTEM, ALARM SYSTEM MODIFICATION— Idaho Falls, Idaho
(Estimated cost $20,000)

Bids will be called this month by Atomic Energy Commission, Box 1221, Idaho Falls, for installation of a monitoring system and modification of the alarm systems in the MTR Area at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-899.

SP 5-11

SEWAGE TREATMENT PLANT— Lewiston, Idaho

Bids will be opened about November 12 by City Council, City Hall, Lewiston, for construction of a sewage treatment plant, pumping station and trunk line across the Clearwater River and interceptor sewers at Lewiston. Plans and specifications will be completed about September 15 by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. Project will be completed about March 19, 1959. Contracts will be let separately for the plant, a trunk line across Clearwater River to the North Lewiston plant site, a Snake River Ave. interceptor line and a North Lewiston interceptor line.

SC 5-4. Previous report 4-11

★TRANSFORMERS— Minidoka Project, Idaho

Award to Afton-Lemp Electric Co., 620 S. 9th, Boise, $2,160 fob Rupert, for 26 potential transformers for forty wells, Schedule 2, Minidoka Project, North Side Pumping Station, Idaho; Spec. No. 100S-287.

SP 5-11

●TAXIWAY LIGHTING FACILITIES— Mountain Home AFB, Idaho

Bids will be opened 2 p.m., June 6, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of airfield taxiway lighting facilities, involving excavation, trenching and backfilling, installation of direct-burial cable, conduit, lighting fixtures, electrical equipment, installation of Government-furnished equipment, and construction of asphaltic taxiway shoulder stabilization, at Mountain Home Air Force Base, Elmore County, Idaho; ENG-45-164-57-45. Specifications with above office. Bid bond 20%. Completion time 150 calendar days.

Quantities—ELECTRICAL ITEMS: 5,500' trenching; 7,500' of 3" conduit; 23,500' cable; 415' of 6-way duct. SHOULDER STABILIZATION: 4,100 c.y. excavation; 3,100 c.y. base course; 30 ton prime coat; 118 ton asphalt; 2,000 asphaltic concrete surface course; 500 sq. yd. taxiway painting.

SP 5-16

★BANK PROTECTION— Salmon, Idaho

Contract negotiated with E. Strand, General Contractor, Challis, $27,568, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for bank protection along the Salmon River, Tomanovich-Salmon City Location, near Salmon, Lemhi County, Idaho; CIVENG-45-164-57-78.

SP 5-11. Previous report 3-27

MONTANA

●WATER MAINS— Billings, Mont.

Bids will be opened June 4 by Yellowstone County Commissioners, Courthouse, Billings, for installation of 6" water main in St. Johns Ave. from 13th to 14th St. W. and 8" water main in 13th St. W. from Lynn Ave. to St. Johns Ave., RSID No. 380, Billings. Specifications with Sage Engineers & Land Planners, Inc., 1010 Poly Drive, Billings.

EE 5-14

★FISH PONDS, PIPELINE—Bozeman, Mont.

Award to W. D. Howells, Bozeman, $13,219, by U. S. Fish and Wildlife Service, Leo L. Laythe, regional director, 1001 N.E. Lloyd Blvd., Portland, for construction of six concrete fish ponds, pipeline and related work at the U. S. Fish Cultural Station near Bozeman.

WB 5-10. Previous report 4-27

▲CLEARING, TRANSMISSION LINE— Columbia Falls, Mont.

Bids opened by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing and construction of Schedule 1, Columbia Falls, Round Prairie Section of the Columbia Falls-Trego No. 1 115-kv

transmission line, beginning at the Columbia Falls substation, approximately 1½ mi. southeast of Columbia Falls, Flathead County, Mont.; Inv. No. 8375. Project terminates about five mi. west of Whitefish. LOW BIDS: Lewis Construction Co., 925 10th N., Great Falls, $98,110; Power City Electric Co., N. 920 Howard St., Spokane, $100,782; Sunset Construction Co., 2220 River Drive, Great Falls, $138,501. Bids opened May 13.
WB 5-15. Previous report 4-26

COUNTY ROAD IMPROVEMENT—
Great Falls, Mont.

Two county road improvement projects have been approved for 1958 construction by Cascade County Commissioners, Percy Ross, county surveyor, Courthouse, Great Falls. Projects are (1) improvement of a mile of connecting road with Judith Basin, involving a spur off the road which leads from Armington to the head of Little Belt Creek (estimated cost $1,800), and (2) elevating and improving a section of county road which connects with a main county road along Smith River, near Goodwin Coulee, then runs northeast, joining the county road which runs south of Great Falls to Ulm.
SC 5-10

★**FISH PONDS, PIPELINE—Kalispell, Mont.**

Award to L. C. LaRue, Kalispell, $15,208, by U. S. Fish & Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of six concrete fish ponds, steel pipeline and related work at Creston Fish Cultural Station near Kalispell.
WB 5-10. Previous report 4-25

★**BITUMINOUS PAVING—Missoula, Mont.**

Award to McAtee & Heathe, Box 4187, Station B, Spokane, and Clifton & Applegate, Yardley, Wash., $551,569, by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for bituminous paving on 28.660 mi. of Swan River Highway, Flathead National Forest, Lake County, Mont.; Montana FHP 15-A3, D1, E1, G1, H1.
WB 5-15. Previous report 5-9

▲**CURB, GUTTER, DRAINAGE, PAVING—**
Wolf Point, Mont.

Bids received by John C. Witte, city clerk, City Hall, Wolf Point, for curb, gutter, drainage and paving improvements in SID No. 25 at Wolf Point. Plans and specifications by Wenzel & Co., consulting engineers, 41 Meadowlark Drive, Great Falls. Bids opened May 7. LOW BIDS: Francis Tindall, 1302 W. Broadway, Lewistown, $182,183; Richardson Construction Co., 19 S. 9th Ave., Miles City, $188,453; Norgaard & Hilling, Williston, N. Dak., $202,540.
SP 5-14. Preivous report 4-24

WYOMING

★**CABLE REMOVAL, REPLACEMENT—**
Encampment, Wyo.

Award to W. G. Dale Electric, 114 E. 20th, Cheyenne, $9,692, by U. S. Air Force, Purchasing and Contracting Office, Box 101, Warren AFB, for removal and replacement of spiral-four cable at Encampment; IFB 48-600-57-67. Bids opened April 23.
SP 5-11. Previous report 4-16

★**SUBSTATION, POWERPLANT ADDITIONS— Guernsey, Wyo.**

Award to C.S.P. Engineering Co., Casper, $33,974, by Bureau of Reclamation, Glendo, for construction of 115- and 34.5-kv additions to Guernsey substation, switchyard and powerplant, Transmission Division, Missouri River Basin Project, near Guernsey, Platte County, Wyo.; DC-4867.
SP 5-10. Previous report 4-11

●**STREET IMPROVEMENT—**
Newcastle, Wyo.

Bids will be opened for the second time 7:30 p.m., May 13, by City Council, City Hall, Newcastle, for construction of base course and asphalt mat on 6th St., cement at the intersection of Main and Summit St., and repair, patching, building up and resealing of existing asphaltic streets within the city limits of Newcastle. Specifications with Fletcher-Robinson Engineering Co., consulting engineers, Box 727, Newcastle. $20 deposit. Certified check or bid bond 10%. Bids were previously opened April 29 and rejected.
SC 5-11. Previous report 5-8

★**SURFACING MATERIALS—Rawlins, Wyo.**

Award to Boatright-Smith Co., 418 McMicken, Rawlins, $6,100, by City Council, City Hall, Rawlins, for crushing, hauling, stockpiling 8,000 ton crushed gravel.
SP 5-10. Previous report 5-8

▲**TREATMENT PLANT REHABILITATION— Wendover AFB, Utah**

Bids received by U. S. Air Force, Purchasing and Contracting Office, Bldg. 214, Wendover AFB, for rehabilitation of the sewage treatment plant and for installation of new section of outfall sewer line and construction of lagoons at the base; IFB-42-607-57-25. LOW BID: England Bros. Construction Co., Tooele, Utah, no amount noted.
LY 5-10

UTAH

★**DISTRIBUTION LINE—Fort Douglas, Utah**

Award to Wasatch Electric Co., 406 S. State St., Salt Lake City, $3,650, by U. S. Air Force, Purchasing and Contracting Office, Fort Douglas, for construction of overhead and underground electrical distribution line from Bldg. No. 414 to the Rifle Range at Fort Douglas; AVI-42-077-57-12. Bids opened April 15.
SP 5-2. Previous report 4-13

★**SEWAGE DISPOSAL PLANT, OUTFALL LINES— Layton, Utah**

Award to Davis & Butler, Dooly Bldg., Salt Lake City, $1,355,937, by North Davis County Sewer District, Ray J. Dawson, president, Layton, for constructino of a 10,000,000-gallon-per-day plant and two-stage high rate sewage treatment plant in Layton. Plans by Templeton & Linke, consulting engineers, 500 Dooly Bldg., Salt Lake City.
GH 5-11. Previous report 4-19

★**FENCING— Salt Lake City, Utah**

Award to James E. Mason, Hagerman, Idaho, $1,488 per mi., by Bureau of Land Management, 312 Boston Bldg., Salt Lake City, for construction of the Rickenbach Allotment fence, involving approximately five mi. of barbed wire fence on public land, in Salt Lake City. Bids opened April 19.
GH 5-3. Previous report 3-15

★**STATE HIGHWAY PROJECTS—**
Salt Lake City, Utah

Two awards and bids on one project held for consideration by Utah State Road Commission, Salt Lake City, for two highway construction projects on which bids opened April 16.

SURFACING—STATE ROAD 113-U.S. 40 and 189—Roadmix bituminous surfacing, 2"; on FASP Route 248 and FASP Route 250 (county roads), Wasatch County; FASP No. S-0250(2).

Held for consideration.

LOW BID: Whiting & Harmond, Contractors, Springville, $152,513.

BRIDGE—FAP Route No. 35—Concrete and steel structure, 0.031 mi., at Blue Pool Wash 3.5 mi. northwest from Utah-Arizona State Line, Kane County, FAP No. F-035-1(2) 2nd Contract.

AWARD: Wangsgaard Construction Co., Logan, $83,012.

3 BRIDGES—FAP Route No. 35—Three concrete structures at Johnson, Seaman and Petrified Washes, Kane County; FAP No. F-035-1(2).

AWARD: E. R. Knowlton & Son, 78 Whitesides St., Layton, $190,876.
SP 5-10. Previous report 4-23

●**STATE HIGHWAY PROJECTS—**
Salt Lake City, Utah

Bids will be opened 2 p.m., June 4, by Utah State Road Commission, Salt Lake City, for the following highway construction project. Specifications with above office and with the district engineer in Ogden. $2 deposit. Certified check, cashier's check or bid bond 5%.

SURFACING—BRIGHAM CITY: Construction of 0.468 mi. of 3½" plantmix bituminous surfaced road on U.S. 30-A (Main St.) between 2nd South St. and 1st North St., Box Elder County; State Proj. No. 1587.

Quantities: 4,000 ton plantmix bituminous surface type A; 281 ton bituminous material; 12,000 ton gravel; 3,650' concrete curb and gutter.
SP 5-11

●**STATE HIGHWAY PROJECT—**
Salt Lake City, Utah

Bids will be opened 2 p.m., May 21, by Utah State Road Commission, Salt Lake City, for the following state highway project. Specifications with above office and with district engineer in Ogden. $2 deposit. Certified check, cashier's check or bid bond 5%.

SURFACING—WEBER COUNTY ROAD: Construction of 2.727 mi. of 2½" roadmixed bituminous surfaced road on FAS Route No. 580 between West Warren and Little Mountain, Weber County; FAS No. S-0580(2).

Quantities: 418 ton bituminous material; 16,300 ton gravel surface type B; 47,000 c.y. imported borrow.
SP 5-11

▲**STATE HIGHWAY PROJECTS—**
Salt Lake City, Utah

Bids received by Utah State Road Commission, State Capitol Bldg., Salt Lake City, for three highway construction projects on which bids opened May 7.

SURFACING-STATE ROAD No. 21—3.66 mi. of 2" roadmix bituminous surfacing between Wah Wah Springs and Wah Wah Summit, Beaver County; FAS No. S-0352(2).

LOW BIDS: L. A. Young Construction Co. & Vernal Sand & Gravel Co., Richfield, $139,867; W. W. Clyde & Co., Springville, $151,774; R. M. Jensen, 1962 S. 6th West, Salt Lake City, $170,559.

SURFACING, BRIDGE — STATE ROAD No. 162—Concrete bridge over 20' span and 3.672 mi. 2½" roadmix bituminous surfaced road between Pineview Dam and Eden, Weber County, State Project No. 1574 and FAS No. S-0569(1).

LOW BIDS: Wheelwright Construction Co., 2300 E Ave., Ogden, $291,264; Fife Construction Co., Brigham City, $298,106; Wilkinson Construction Co. and Bouchard & Stark Construction Co., Morgan, $308,847 (joint venture).

SURFACING—STATE ROAD No. 47—21.175 mi. 2" roadmix bituminous surfacing betweent Utah-Arizona State Line and Mexican Hat, San Juan County; FAP No. A-AA-67(1).

LOW BIDS: Industrial Construction Co., Box 910, Las Vegas, Nev., $665,957; J. M. Sumison & Sons, Springville, $685,933; W. W. Clyde & Co., Springville, $718,678.
SP 5-14. Previous report 4-25

ALASKA

★**FUEL STORAGE— Adak, Alaska**

Award to Swalling Construction Co., Box 1039, Anchorage; M-B Contracting Co., Lloyd Bldg., Seattle; Patti-McDonald Construction Co., Pouch 6, Anchorage, $4,386,000 (joint venture), by 17th Naval District, Captain R. B. Krum, Kodiak, for construction of petroleum handling and storage facilities at Adak, Aleutian Island, involving a pier, underground tanks, buildings, roads, utilities; Spec. No. 24159/56.
SP 5-10. Previous report 4-27

STREET IMPROVEMENTS, SEWERS—
Anchorage, Alaska

No work will be done during 1957 on street improvements and sewer construction in Anchorage, according to George O. Matkin, city engineer, City Hall, Anchorage.
SP 5-10. Previous report 4-12

●**SUBSTATION ADDITION—**
Anchorage, Alaska

Bids will be opened 10 a.m., June 11, by

Bureau of Reclamation, Pouch 5, Star Route, Alaska, for the addition of 34.5-kv bay X8 to the Anchorage substation, near Anchorage; DC-4827. Specifications with above office. Bid bond 10%.

SCHED. 1—FOUNDATIONS, STRUCTURE: Involves construction of concrete foundations and erecting steel structures. SCHED. 2—ELECTRICAL INSTALLATIONS: Installation of major electrical equipment; furnishing and installing outdoor electrical materials; furnishing and installing cable and control board section; furnishing and installing 2 unmounted terminal blocks.

SP 5-15

● TOPSOILING, SEEDING—
Eielson, Ladd AFB, Alaska

Bids will be opened 2 p.m., June 4, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for topsoiling and seeding approximately 70,000 sq. yd. at Ladd AFB and 178,000 sq. yd. at Eielson AFB; ENG-95-507-57-52. Specifications with above office and with Seattle branch office, 4735 E. Marginal Way, Seattle. Bid bond 20%. Approximately 15,000 c.y. excavation involved at Ladd AFB and 30,000 c.y. at Eielson AFB. Also included in the work at Ladd AFB is the adjustment of two manholes with vents. Separate bids on Ladd and Eielson work. Completion time September 15. SP 5-11

★ELECTRICAL DISTRIBUTION SYSTEM—
Fort Richardson, Alaska

Award to Connolly Construction Co., 400 Sitka, Anchorage, $134,715, by Corps of Engineers, Alaska District, in the Seattle branch office, 4735 E. Marginal Way, Seattle, for construction of an electrical distribution system, consisting of a 7,200-volt primary overhead line from the Fort Richardson heat and powerplant along Ski Bowl Road to site Summit, a distance of about 7 miles; ENG-95-507-57-75. SP 5-11. Previous report 5-2

★DREDGING, BREAKWATER CONSTRUCTION—Elfin Cove, Craig and Pelican Harbors, Alaska

Award by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, to Manson-Osberg Co., 1132 N. 128th, Seattle, $792,535 for dredging and breakwater construction at Craig Harbor, Elfin Cove and Pelican Harbor; CIVENG-95-507-57-5. Individual bids were $313,595 for Craig, $147,020 for Elfin and $331,920 to Pelican.

DM 5-15. Previous report 4-29

▲SURFACING— Juneau, Alaska

Bids received by Bureau of Public Roads, Box 1961, Juneau, for surfacing on the Nome-Kougarok Road; Proj. No. S-0141(1). Bids opened May 7. LOW BIDS: A & A Garage & Construction & Bronson Water Delivery, Nome, $137,882; Q-Trucking Co., Box 24, Nome, $161,254; Lee & Reader Construction Co., Box 226, Nome, $195,965.

▲COATING, FLOODLIGHTING GUYING— Whittier, Alaska

Bids received by Corps of Engineers, Alaska district, D-E Bldg., Anchorage, for testing protective coating (Sched. A) and floodlighting guying (Sched. B) at permanent docking facilities at Whittier; ENG-95-507-57-73. Bids opened May 10. BIDDERS: Warren Painting Co., Inc., Box 2091, Anchorage, $4,440 (Sched. A), $6,671 (Sched. B); Inlet Plumbing & Heating Co., Box 3095, Fairview, Anchorage, $15,934, $4,800. Government estimate, $12,180, $5,553.

SP 5-15. Previous report 5-9

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

May 20—Milton-Freewater—School Addition 5-8
May 21—Gladstone—School Addition 5-7
May 21—Portland—Interior Finishing 4-30
May 21—Roseburg—Telephone Building Addition 5-10
May 21—Vernonia—Flooring, Temperature Controls 5-3
May 22—Portland—School Remodeling 4-3
May 22—Portland—Remodel School 4-3
May 22—Portland—School Remodeling 4-25
May 22—Portland—Air Conditioning 4-30
May 23—Elgin—High School 4-27
May 23—Corvallis—Hospital Addition 5-7
May 23—Forest Grove—Girls' Dormitory, Alterations 5-3
May 23—Salem—Liberty School Addition 5-1
May 23—West Linn—School Additions 5-4
May 24—Eugene—Elementary School Additions 5-8
May 24—Portland—Doors 5-8
May 27—Warm Springs—School 5-14
May 28—Astoria—Tongue Point 5-15
May 28—Hood River—Fire Station 4-27
May 28—Salem—Correctional Institution 5-10
June 4—Ordnance—Ammunition Renovation Facilities 5-3
June 4—Salem—Salem Heights School Addition 5-15
June 5—Portland—Zoo Building 5-11
June 6—Portland—Structural Steel Work 5-11

WASHINGTON

May 20—Everett—School Alterations, Additions 5-7
May 20—Everett—Music Building 5-7
May 21—Ephrata—Garage, Warehouse Modification 4-23
May 21—Olympia—Telephone Building 5-10
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Bids Must Be in — Date Printed in Pacific Construction Daily

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WASHINGTON

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May 20—Mountlake Terrace—Grading, Asphaltic Concrete Paving 5-8
May 20—Othello—Pump, Pumphouse, Piping 5-3
May 20—Quincy—Sewer System 5-3
May 20—Seattle—Bridge Pier Repair 5-9
May 20—Seattle—Culvert Pipe 5-11
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May 21—Nespelem—Grading, Surfacing 5-10
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May 21—Seattle—Sprinkler System 5-11
May 21—Seattle—Tractor 5-11
May 21—Seattle—Sewer Pumping System 5-15
May 22—Bremerton—Cast Iron Pipe 5-14
May 22—Bremerton—Perry Street Improvement 5-7
May 22—Ilwaco—Breakwater, Boat Basin 4-26
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May 29—Moses Lake—Water Well 5-15
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IDAHO

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MONTANA

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UTAH

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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.

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A.M., MAY 23
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the office of said Commission in the City of Helena until 9:30 A.M., on May 23, 1957. The proposals will be publicly opened and read immediately thereafter.

1. F 58(22), U 257(14) & F 270(7) Unit 1—Grade, gravel surfacing, plant-mix oiling, and drain 2.241 miles on the Manicke-Kalispell, Kalispell-West Glacier and Kalispell-Whitefish Roads in Flathead County, involving about 70,281 cu. yds. excavation; 86 cu. yds. gravel backfill; 16,011 cu. yds. sand-base material; 19,697 mi. yds. overhaul; 80,880 tons crushed gravel; 2,320 M gals. watering; 559 units rolling; 72,697 gals. liquid asphalt; 169,410 gals. asphalt cement; 23,023 gals. emulsified asphalt; 1,057 lin. ft. corrugated metal pipe culvert; 366 lin. ft. copper water pipe; 3,860 lin. ft. concrete sewer pipe; 20 each drop inlets; 18 each drop inlets to remove; 4,058.6 sq. yds. concrete structures to be removed; 2,455.6 lin. ft. concrete structures to be removed; 4,152.9 lin. ft. new median curb; 2,304.6 sq. yds. new concrete sidewalk; 14,098.5 lin. ft. new concrete integral curb and gutter; 8 each new manholes, and other items. Project to be completed in 220 calendar days.

2. F 103(9)—Grade, gravel surfacing, bituminous surface treatment and drain 9.962 miles on the Lewistown-Roy Road in Fergus County, involving about 498,511 cu. yds. excavation; 520 cu. yds. gravel backfill; 67,102 mi. yds. overhaul; 258,059 tons crushed gravel; 12,579 M gals. watering; 2,174 units rolling; 57,386 gals. liquid asphalt; 57,386 gals. emulsified asphalt; 100 lin. ft. corrugated metal pipe culvert; 408 lin. ft. structural plate pipe culvert; 3,994 lin. ft. reinforced concrete pipe culvert; 330 lin. ft. relay pipe culverts; all lump sum clearing and grubbing and other items. Project to be completed in 230 calendar days.

3. F 217(9) Unit 1—Grade, gravel surfacing and drain 11.529 miles on the Gardiner-Livingston Road in Park County, involving about 646,267 cu. yds. excavation; 10,434 cu. yds. riprap; 655 cu. yds. gravel backfill; 141,413 mile yds. overhaul; 141,744 tons crushed gravel; 12,486 M gals. watering; 1,854 units rolling; 380 lin. ft. corrugated metal pipe culvert; 422 lin. ft. structural plate pipe culverts; 4,040 lin. ft. reinforced concrete pipe culvert; 4.20 acres clearing; 1.49 acres grubbing; and other items. Project to be completed in 300 calendar days.

4. F 217(9) Unit 3—Construction of one 90.0' steel and concrete bridge over Big Creek on the Gardiner-Livingston Road in Park County, involving about 185 cu. yds. excavation; 177.5 lin. ft. steel bridge rail; 46,838 lbs. reinforcing steel; 201.5 cu. yds. concrete; and 170 cu. yds. structure excavation. Project to be completed by October 31, 1957.

5. F 241(15)—Grade, gravel surfacing, plant-mix oiling, and drain 1.364 miles in the City of Dillon on the Dillon-Butte Road in Beaverhead County, involving about 36,276 cu. yds. excavation; 100 cu. yds. gravel backfill; 697 sq. yds. new concrete sidewalks and driveway; 48,885 tons crushed gravel; 6,343 tons plant mix; 1,344 M gals. watering; 257 units rolling; 12,808 gals. liquid asphalt; 82,064 gals. asphalt cement; 10,669 gals. emulsified asphalt; 6,049 lin. ft. concrete sewer pipe; 100 lin. ft. relay pipe culverts; 2,027.8 lin. ft. concrete median curb; 11,130.8 lin. ft. concrete integral curb and gutter; 2,802.4 lin. ft. concrete struc-

tures in place to be removed; 29 new drop inlets; 17 new manholes; 1,308 sq. yds. concrete to be removed; 15,641 lbs. reinforcing steel; 133.92 cu. yds. concrete; all lump sum removal of existing structure and maintaining traffic and other items. Project to be completed in 160 calendar days.

6. S 218(1) & 220(1)—Grade, gravel surfacing, bituminous surface treatment and drain 2.456 miles on the 29th street-Middlesex Avenue Road and the Higgins Ave. Extension south of Missoula Road in Missoula County, involving about 43,723 cu. yds. excavation; 100 cu. yds. gravel backfill; 42,935 tons crushed gravel; 18,616 tons uncrushed gravel; 1,880 M gals. watering; 361 units rolling; 15,326 gals. liquid asphalt; 15,326 gals. emulsified asphalt; 1,966 lin. ft. corrugated metal pipe culvert; and other items. Project to be completed in 100 calendar days.

7. S 178(2)—Grade, gravel surfacing, bituminous surface treatment and drain 4.825 miles on the Moiese-Charlo-Nine Pipe Road in Lake County, involving about 93,999 cu. yds. excavation; 121 cu. yds. gravel backfill; 50,726 mi. yds. overhaul; 91,997 tons crushed gravel; 18,251 tons sand base; 3,236 M gals. watering; 596 units rolling; 27,998 gals. liquid asphalt; 27,998 gals. emulsified asphalt; 308 lin. ft. corrugated metal pipe culvert; 72 lin. ft. structural plate pipe culvert; 2,750 lin. ft. reinforced concrete pipe culvert; and other items. Project to be completed in 100 calendar days.

8. S 206(1) Unit 2—Construction of one 110.0' steel and concrete bridge over Big Muddy Creek on the Homestead East and West Road in Sheridan County, involving about 310 cu. yds. excavation; 1,280 lin. ft. furnish treated timber piles; 1,248 lin. ft. driving treated timber piles; 217.5 lin. ft. steel bridge rail; 45,040 lbs. reinforcing steel; 219.6 cu. yds. concrete; 150 cu. yds. structure excavation; and all lump sum removal of existing structure and maintaining traffic. Project to be completed by October 31, 1957.

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 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 Missoula.

Harry L. Burns, Chairman ,
Scott P. Hart, State Highway Engineer

5796—5-11, 18

STREET PAVING, CURB, GUTTER
BIDS CLOSE 5 P. M., MAY 27
Coeur d'Alene, Idaho
NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN, that sealed bids will be received by the City Clerk of the City of Coeur d'Alene, Idaho, up to five o'clock P. M., on the 27th day of May, 1957, and said bids will be opened at a meeting of the City Council to be held on said day at 7:30 o'clock P. M., in the presence of such persons as see fit to attend such meeting for the paving of: College Drive between Garden Ave. and Hubbard St.; Lakeside Ave. between 150' West of 10th St. and 11th St.; Coeur d'Alene Ave. between 150' W. of 10th St. and 11th St.; Indiana Ave. between 10th St. and 11th St.; Wallace Ave. between 150' W. of 10th St. and 11th St., Garden Ave. between 150' W. of 10th St. and 11th St.; Tenth St. between Sherman Ave. and 110' N. of Garden Ave.; Pennsylvania Ave. between 150' W. of 9th St. and 10th St.; St. Maries Ave. between 150' W. of 9th St. and 10th St.; Ninth St. between 130' S. of Penn. and Mont. Ave., and for curbing minor portions of said streets and avenues, also for the construction of standard concrete curbs on both sides of Dollar St. between Ash Ave. and Young Ave. Such paving to be from curb to curb with a permanent type 2 inch asphaltic concrete pavement. All subgrade excavation work, gravel base, adjustment of manholes and catch basins to be done by the City of Coeur d'Alene.

A general description of the kind and amount of labor and material to be furnished is as follows: Construct Standard Curb 3,913 lineal feet.; Fine grade and compact gravel base; Furnish, lay and compact 2 inch Asphaltic Concrete Pavement on 29,000 square yards. The estimate of the City Engineer on the cost of said work is $40,000.00. (This does not include cost of work or labor to be done by the City of Coeur d'Alene.) All according to plans and specifications on file with the City Clerk and City Engineer and made a part of this notice.

Proposals must be plainly marked "Proposal for the Paving and Curbing of Local Improvement District No. 81 in the City of Coeur d'Alene," and shall be a lump and unit bid for the performance of such work and furnishing such material, and must be accompanied by a Certified Check in the amount of five (5) percent of the amount bid on some reliable bank payable to the City Treasurer of the City of Coeur d'Alene. In the event that the bidder to whom the contract is awarded shall refuse for ten (10) days after the contract is awarded to him to enter into the contract with the City and give bond for the faithful performance of the contract as called for in the plans and specifications, such check will be forfeited to the City.

The Certified Check of the lowest and next lowest acceptable bidder will be held until the contract is signed.

The bidder shall have a Class "A" State of Idaho Contractors License.

The right is reserved to reject any and all bids. Dated this 6th day of May, 1957.

D. E. Nedry,
City Clerk.
Elmer E. Soniville,
City Engineer.

5798—5-9, 15, 22

PENSTOCK COASTER GATE
BIDS CLOSE JUNE 4
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4911) will be received at Denver, Colorado, until June 4, 1957, for furnishing one 15- by 29.65-foot penstock coaster gate with extra replacement parts for Grand Coulee Dam, Columbia Basin Project, Washington. Delivery is desired within 360 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5792—5-18

BUILDING ADDITIONS
BIDS CLOSE JUNE 13
Tracy, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4907) will be received at Winters, California, until June 13, 1957, for furnishing labor and materials for additions to Tracy Administration Building, Central Valley Project, California. Location near Tracy, California. Principal items are lump sum for constructing addition to Tracy Administration Building; and other work. Completion time 150 days. For particulars, address Bureau of Reclamation, P. O. Box 2511, Sacramento, California; P. O. Box 546, Winters, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5787—5-18

STRUCTURAL STEEL WORK
BIDS CLOSE 2 P.M., P.S.T., JUNE 6
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed bids will be received by the Oregon State Board of Higher Education at Room 119, Old Main Building, Portland State College, 1620 S.W. Park Avenue, Portland, Oregon, until 2:00 P.M., PST, on Thursday, June 6, 1957, for structural steel work relating to the proposed five-story Classroom Building at Portland State College.

Briefly, the work includes furnishing, fabricating, erecting and painting all structural steel, including base plates, required for the construction of the Southeast Unit of State Hall, 100 feet by 110 feet, and estimated to require approximately 400 tons of steel.

Two sets of drawings, specifications and forms of contract documents may be obtained after May 20, 1957, by prime bidders only from Lawrence, Tucker & Wallmann, Architects, 912 Failing Building, Portland 4, Oregon, upon deposit of $25.00. Additional sets may be obtained from the Architects for the cost of reproduction.

The deposit made upon the procurement of the drawings, specifications and forms of contract documents will be refunded upon the return thereof in good condition within two weeks after the opening of bids by actual bidders, but to non-bidders only if returned no later than the date of 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 comply with Chapter 279, Oregon Revised Statutes, relating to the qualification of bidders. Prequalification forms are immediately available at the office of the Architects.

No bid may 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 a bid bond executed in favor of the State of Oregon and Oregon State Board of Higher Education in an amount not less than ten per cent 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 hour set for the opening thereof until after the elapse of 30 days from the bid opening.

OREGON STATE BOARD OF
HIGHER EDUCATION
By Earl M. Pallett, Secretary
Eugene, Oregon

5801—5-14

WATER HEATING PLANT, PIPELINE
BIDS CLOSE 10 A.M., P.S.T., MAY 29
Portland, Oregon
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., May 29, 1957 and then publicly opened, for the construction of a water heating plant and related pipeline, at the Willard Fish Cultural Station, located about 6 miles north of Cook, in Skamania County, Washington. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

5800—5-14, 21

SCHOOL ALTERATIONS
BIDS CLOSE 2 P.M., MAY 29
Olympia, Washington
NOTICE TO CONTRACTORS

Separate sealed bids for General, Mechanical and Electrical Work will be received by Olympia School District No. 1, at the School District Office, 116 North Columbia Street, Olympia, Washington, until 2:00 P.M., Wednesday, May 29, 1957, for the construction of Alterations to the Existing Classroom and Gymnasium Buildings for Washington Junior High School, Eastside Street and Legion Way, Olympia, Washington.

Bids will then and there be publicly opened and read aloud. Bids received after

the time fixed for opening cannot be considered.

Specifications, including Contract Documents, and Drawings may be examined and may be obtained at the office of the Architects, WOHLEB & WOHLEB and ASSOCIATES, Architects and Engineers, 713 South Washington Street, Olympia, Washington, and may be examined at the Associated General Contractors' Offices in Seattle and Tacoma, Washington, and at the Plan Bureau in Seattle, Washington, and the Association of Subcontractors of Washington, Tacoma, Washington.

Plans may be obtained at the Architect's office upon deposit of Fifty and No/100 Dollars ($50.00) for each set of General, or Mechanical or Electrical plans and specifications. 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 annotations, within 3 days after the time set for opening bids. Other deposits will be refunded with deduction for the actual cost of reproducing the drawings and specifications under the same condition.

Each bid must be accompanied by a certified check, cashier's check or bid bond, with state-licensed surety company as surety, in an amount not less than five per cent (5%) of the total amount of Base Bid No. 2, all made payable to Olympia School District No. One.

The right is reserved to reject any or all bids and to waive informalities in connection with said bids.

By order of
OLYMPIA SCHOOL DISTRICT No. ONE
By Virgil L. Adams, Secretary

5799—5-18

FISH SCREEN STRUCTURE
BIDS CLOSE JUNE 19
Camp White, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4910) will be received at Camp White, Oregon, until June 19, 1957, for furnishing labor and materials for fish screen structure for Savage Rapids Dam, Grants Pass Project, Oregon. Location near Grants Pass, Oregon. Principal items are 1,450 cu. yds. excavation; 580 cu. yds. concrete; furnishing and installing 24-inch diameter steel discharge pipe; and other work. Completion time 640 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.

5794—5-18

POWERPLANT
BIDS CLOSE JUNE 18
Green Springs, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4905) will be received at Building No. 234, Camp White, 9 miles north of Medford, Oregon, until June 18, 1957, for furnishing labor and materials for Green Springs powerplant, switchyard and penstock, Rogue River Basin Project, Oregon. Location 11 miles southeast of Ashland, Oregon. Principal items are 48,000 cu. yds. excavation; 194,700 pounds reinforcement; 2,400 cu. yds. concrete; installing 50-ton stiffleg derrick; furnishing and installing penstock and surge tank; installing and testing one 23,500 horsepower hydraulic turbine; and other work. Completion time 660 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; P. O. Box 386, Camp White, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5793—5-18

GRADING, CONCRETE GIRDER BRIDGE
BIDS CLOSE 10 A. M., JUNE 4
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC WORKS, May 14, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 o'clock A. M. on June 4, 1957, for furnishing the material and performing the work for constructing 2.105 Miles Grading and an 80-Foot Reinforced Concrete Girder Bridge, Oregon Forest Development Road Project, Umpqua 291-B, Buckeye Creek Road, Umpqua National Forest, Douglas County, Oregon, involving 18 Acres Clearing; 12 Acres Grubbing; 83,000 Cu. Yds. Excavation; 1,050 Lin. Ft. Culvert Pipe; 92 Cu. Yds. Concrete; 21,000 Lbs. Reinforcement Steel; 170 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, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Regional Director.

5802—5-18

GRADING, BRIDGES
BIDS CLOSE 10 A. M., MAY 29
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, May 15, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a. m. on May 29, 1957, for furnishing the material and performing the work for constructing 7.302 Miles Grading and two Reinforced Concrete Bridges totaling 160 Feet, Washington Forest Highway Project 13-A1, B1, D2, Unit 2, Randle-Yakima Highway, Gifford Pinchot National Forest, Lewis County, Washington, involving 80 Acres Clearing; 50 Acres Grubbing; 710,000 Cu. Yds. Excavation; 1,123,000 Sta. Yds. Overhaul; 546,000 Cu. Yd. Mi. Overhaul; 281 Cu. Yds. Concrete; 80,700 Lbs. Reinforcing Steel; 2,200 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, 753 Morgan Building, Portland, Oregon. F. E. ANDREWS, Regional Engineer.

5803—5-18

SANITARY SEWERS, BULKHEADS
BIDS CLOSE 10 A.M., P.S.T., MAY 22
Cordova, Alaska
NOTICE TO CONTRACTORS

Reference, Project Aaa. 50-A-43, Sewers and Bulkheads, Cordova, Alaska. Date, April 10, 1957. CORDOVA SANITARY SEWERS AND BULKHEADS, Project Aaa. 50-A-43, Cordova, 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 22, 1957, 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 as follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 2723, 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-43, Sewers and Bulkheads, Cordova, Alaska. Consisting of the following approximate quantities: 2,610 l.f. 8 to 15 sewer pipe, 800 l.f. cast iron pipe for outfall, 500 l.f. cast iron sewer pipe, 1,350 l.f. outfall outlet ditch, 1-outfall headwall, 18 standard manholes, 11 drop manholes, 1-cleanout, 9 standing connections, 200 l.f. steel sheet piling bulkhead (lump sum), and other miscellaneous items. 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.

5774—4-20, 27; 5-4

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MAY 21
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission, Olympia, Washington, on Tuesday, May 21, 1957, 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 and Grading on 7.165 miles of Primary State Highway No. 10 in Okanogan County, MALOTT TO OKANOGAN, FAP No. F-029-2(13), involving about 230,420 cubic yards of Common Excavation, 55,120 cubic yards of Solid Rock Excavation, 17 cubic yards of Concrete, 3,641 linear feet of Concrete Pipe, 244 linear feet of Corrugated Metal Pipe, 90 linear feet of Corrugated Structural Plate Pipe, 43,790 linear feet of Wire Fence and other items.
2. Clearing, Draining and Grading on 1.241 miles of Primary State Highway No. 2 in Chelan County, G. N. RY. UNDERCROSSING TO HAY CANYON, FAP No. F-028-1(11), involving about 401,330 cubic yards of Common Excavation, 15,590 tons of Riprap, 5,515 tons of Crushed Stone Surfacing, Ballast and Crushed Cover Stone, 48 tons of Asphalt Cement, 10 cubic yards of Concrete, 660 pounds of Steel Reinforcing Bars, 1,817 linear feet of Concrete Pipe, 400 linear feet of Galvanized Iron Pipe, 815 linear feet of Steel Pipe, 268 linear feet of Corrugated Structural Plate

Pipe, 19 Reinforced Concrete Spot Posts and other items.

3. Constructing Two Reinforced Concrete Slab Bridges and a Reinforced Concrete Box Girder Bridge on 0.013 mile of Primary State Highway No. 1 in Pierce County, NEW YORK AVENUE UNDERCROSSING, ET AL, FAP No. I-001-3(16), involving about 2,275 cubic yards of Concrete, 510,000 pounds of Steel Reinforcing Bars, 2,000 linear feet of Concrete Piling 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 and Constructing a Reinforced Concrete Box Girder Bridge on 0.109 mile of Primary State Highway No. 2 in Chelan County, DIVISION STREET BRIDGE OVER WENATCHEE RIVER-CASHMERE, FAP No. F-028-1(12), involving about 2,960 cubic yards of Common Borrow, 48 linear feet of Corrugated Metal Pipe, 5,560 tons of Riprap, 1,202 cubic yards of Concrete, 235,000 pounds of Steel Reinforcing Bars and other items.
5. Constructing Two Reinforced Concrete Slab Bridges on 0.031 mile of Primary State Highway No. 1 in Whatcom County, WHATCOM CREEK BRIDGE, FAP No. I-001-5(18), involving about 5,000 linear feet of Concrete Piling, a lump sum bid for Reinforced Concrete Superstructures (about 931 cubic yards of Concrete and 224,700 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.
6. Constructing a Reinforced Concrete T-Beam Bridge on 0.025 mile of a Skamania County Road, LITTLE WHITE SALMON RIVER BRIDGE, FAS No. S-0493(2), involving about 282 cubic yards of Concrete, 65,850 pounds of Steel Reinforcing Bars and other items.
7. Constructing Reinforced Concrete Approaches and Reinforced Concrete Deck on Existing Steel Bridge on 0.038 mile of a Lewis County Road, TEITZEL BRIDGE, FAS No. S-0625(2), involving about 142 cubic yards of Concrete, 27,000 pounds of Steel Reinforcing Bars and other items.
8. Clearing, Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Stockpiling Selected Roadway Borrow, Maintenance Rock, Crushed Cover Stone, Crushed Stone Surfacing and Mineral Aggregates on 1.866 miles of Primary State Highway No. 5 in Lewis County, KOSMOS TO GLENOMA, a State Project, involving about 6 acres of Clearing, 1.8 miles of Scarifying and Reshaping Roadway, 20,190 tons of Selected Roadway Borrow, 45,050 tons of Crushed Stone Surfacing, Maintenance Rock, Crushed Cover Stone and Mineral Aggregates, 4,585 tons of Asphaltic Concrete, 35 tons of Asphalt Cement, 93 linear feet of Concrete Pipe, 50 linear feet of Corrugated Metal Pipe and other items.
9. Cleaning and Painting Three Bridges on PSH Nos. 2 and 15 in King and Snohomish Counties, G. N. RY. OVERCROSSING, ET AL, a State Project, involving about 122 hours of Sand Blast Cleaning and 3 lump sum bids for Cleaning and Painting.
10. Constructing Ventilation System on Primary State Highway No. 14 in Pierce County, TACOMA NARROWS BRIDGE TOLL PLAZA VENTILATION, a State Project, involving a lump sum bid for the Entire Improvement.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5790—5-4, 11

TOLL COLLECTION FACILITIES
BIDS CLOSE 10 A.M., MAY 21
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Director of Highways of the State of Washington at the Transportation Building, Olympia, Washington, until 10:00 A.M., Tuesday, May 21, 1957, for furnishing and installing toll collection facilities at the Maple Street Bridge across the Spokane River in the City of Spokane, Spokane County, Washington, and will then and there be opened and publicly read. Bids received after the time fixed for opening will not be considered.

The principal items of equipment to be provided and maintained for this improvement are as follows:

Toll booth	1 only
Fully-automatic collecting unit and accessories	4 only
Semi-automatic collecting unit and accessories	2 only
Remote register (fully automatic lanes)	4 only
Remote register (semi-automatic lanes)	2 only
Time system	1 only

The work on this improvement will be awarded on either one of the two following alternates:

Alternate A provides for the rental of the toll collection facilities to the State of Washington on a monthly basis for five year contract periods. Alternate A also provides for maintenance services for the same contract periods.

Alternate B provides for the sale of the completed toll collection facilities to the State of Washington and for maintenance services by the Contractor for five year contract periods.

A bidder may submit a bid or bids, on the proposal form included herewith, for the performance of either one or both of the alternate proposals.

The award of the contract, if made, will be to the lowest and best bidder whose proposal complies with all the prescribed requirements of the plans and specifications. The award may be on either Alternate A or Alternate B, whichever is deemed most advantageous to the Director of Highways.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond. Deposits for Alternate A shall be not less than three times the total monthly rental and maintenance rates bid in the proposal. Deposits for Alternate B shall be not less than 5% of the total amount bid shown on the proposal for the sale of toll collection equipment plus a sum equal to three times the monthly maintenance rate bid on the proposal.

If a bidder bids on both alternates, only one deposit is required, in the larger of the amounts produced by the above computations.

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. In addition, bidders shall submit with their proposals and as a part thereof a statement of experience concerning the manufacture and operation of the equipment proposed to be furnished. This statement shall be in accordance with the section "Experience Requirements" of the special provisions.

Informational copies of maps, plans and specifications are on file in the office of the City Engineer in the City of Spokane, the Chapter Offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma, and Portland, Oregon, the offices of the District Engineers of the Department of Highways and Tudor Engineering Company, 74 New Montgomery Streets, San Francisco, California, where they may be inspected.

E. C. HUNTLEY, Chairman.
W. A. BUGGE, Director of Highways.

5789—5-4, 11

PRESSURE, METER STATION MODIFICATIONS
BIDS CLOSE MAY 22
Oak View, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4894) will be received at Oak View, California, until May 22, 1957, for furnishing labor and materials for modifications of pressure reducing stations and meter stations along pipe-line distribution systems, Cachuma Project, California. Location near Santa Barbara, California. Principal items are lump sums for furnishing and installing materials for modifications of pressure reducing stations and meter stations. Comp tion time 360 days. For particulars, addr Bureau of Reclamation, P. O. Box 97, C View, California; or Building 53, Den Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5772—4-27

STREET PAVING
BIDS CLOSE 5 P.M., MAY 27
Coeur d'Alene, Idaho
NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN, that sea bids will be received by the City Clerk the City of Coeur d'Alene up to five o'clo P.M., on the 27th day of May, 1957, a said bids will be opened at a meeting of t City Council to be held on said day at 7: o'clock P.M., in the presence of such pe sons as see fit to attend such meeting f the paving of: Government Way betwe Wallace Avenue and Harrison Ave.; Co struct a concrete retaining wall, curb a sidewalk on Government Way between Wa lace Avenue and Garden Ave.

All subgrade excavation, gravel base, ad justment of manholes and catch basins t be done by the City of Coeur d'Alene.

A general description of the kind an amount of labor and material to be fu nished is as follows: Construct curb an sidewalk—240 lin. ft.; Construct sidewalk 15 lin. ft.; Retaining wall with railing—18 lin. ft.; Furnish, lay and compact asphalti concrete—2,420 tons. The estimate of th City Engineer on the cost of said work i $30,000.00. (This does not include cost o work to be done by the City of Coeu d'Alene.) All according to plans and specifi cations on file with the City Clerk and Cit Engineer and made a part of this notice.

Proposals must be plainly marked "Pro posal for the Improvement of Governmen Way in the City of Coeur d'Alene," and sha be a lump and unit bid for the performanc of such work and furnishing such materia and must be accompanied by a **Certifie Check** in the amount of five (5) per cen of the amount bid on some reliable ban payable to the City Treasurer of the Cit of Coeur d'Alene.

The bidder shall have a Class "A" or "B State of Idaho Contractors License.

The right is reserved to reject any an all bids. Dated this 6th day of May, 1957

D. E. Nedry,
City Clerk.
Elmer E. Soniville,
City Engineer

5797—5-9

DEEP DRAINS, TRIBUTARIES
BIDS CLOSE 10 A.M., P.S., MAY 28
Ephrata, Washington
NOTICE TO CONTRACTORS

United States Department of the Interior Bureau of Reclamation, April 29, 195 Sealed bids, in single, (Specifications No 117C-437) will be received at the office o the Project Manager, Bureau of Reclama tion, Project Office Building, Division Avenue and C Street NW, Ephrata, Washing ton, until 10:00 a.m., Pacific Standard Time May 28, 1957, and then publicly opened fo furnishing labor and materials and perform ing all work for construction of Deep Drain DE49 and Tributaries in Block 43. This work will include 184,420 cu. yds. excava tion; 5,800 cu. yds. backfill about structures part compacted and puddled; 400 cu. yds rock backfill; 140 cu. yds. riprap; 100 cu yds. sand and gravel or crushed rock bed ding for riprap; 130 cu. yds. coarse gravel protection; 190 cu. yds. concrete; 285 barrels cement; 18,330 pounds reinforcement bars; 918 lin. ft. 24-, 30-, 36-, 42-, and 54-inch diameter standard-strength reinforced-con crete culvert pipe with type B joints; 1,096 lin. ft. 12-inch diameter, No. 16 gage, corru gated-metal pipe; 212 lin. ft. salvaging and relaying 12-, 15- and 18-inch diameter, corrugated-metal pipe; and 36 lin. ft. sal vaging and delivering 15-inch, 18-inch and 24-inch diameter, corrugated-metal pipe to the warehouse in Warden, Washington. Time allowed for completion will be 300 days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Man ager; P. O. Box 368, Ephrata, Washington.

5788—5-4

JUN 24 1957

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Pacific Architect and Builder

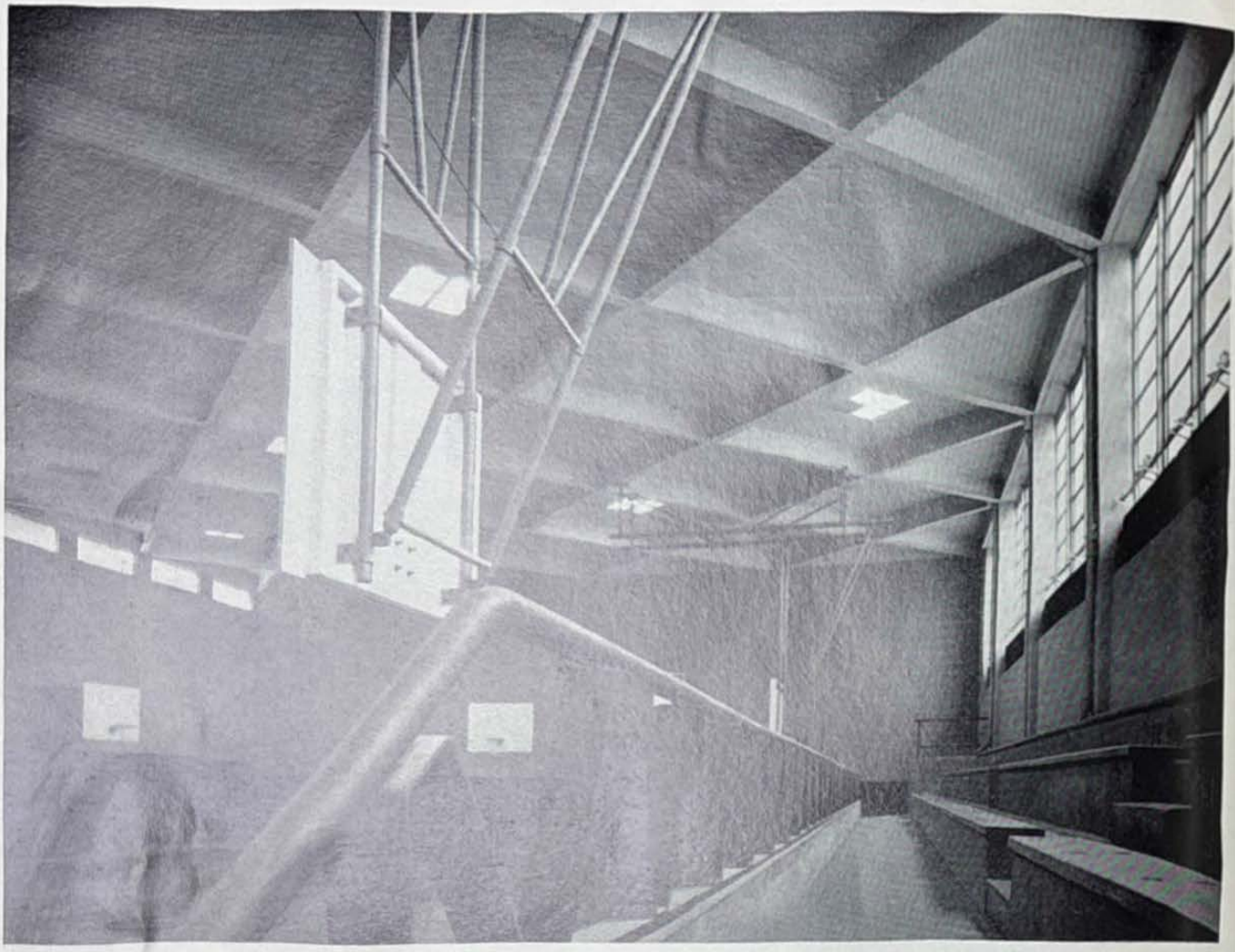
WITH CONSTRUCTION NEWS BULLETIN



A REPORT ON THE AIA CENTENNIAL
—with the keynote address

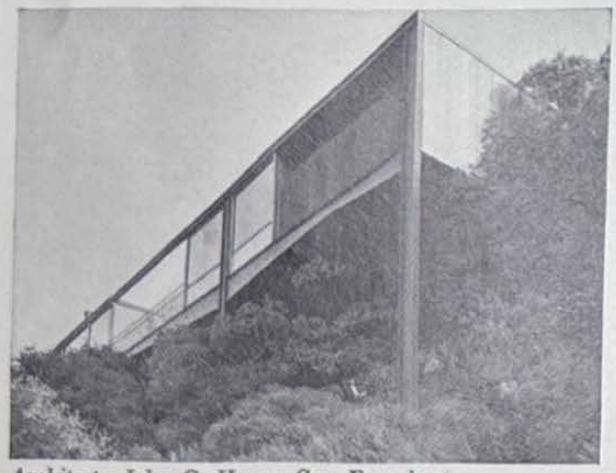
What's new in expansion bolts?

JUNE 1957



Architect: Appleton and Walford, San Francisco; Steel fabricator: Golden Gate Iron Works, Inc., San Francisco
Structural engineer: Ira S. Kessey, San Francisco

Exposed Steelwork in California



Architect: John C. Hoops, San Francisco
Steel fabricator: Schrader Iron Works, San Francisco
Civil engineer: John Brown, San Francisco

Here are two recent examples of how steelwork is left exposed for its beauty. In the Eureka Valley Recreation Center gymnasium in San Francisco the structural steel spans the 70 by 107 ft room in a bold grid pattern made up of interlacing diagonal steel beams 18 in. wide.

The attractive home "with a view" in Sausalito, Calif., has an exposed structural steel framework. Built on an "impossible" lot with a slope ranging from 50 to 70 per cent, structural steel was used as supporting columns. Erected in one day, the steelwork made it unnecessary to provide a continuous system of foundation walls.

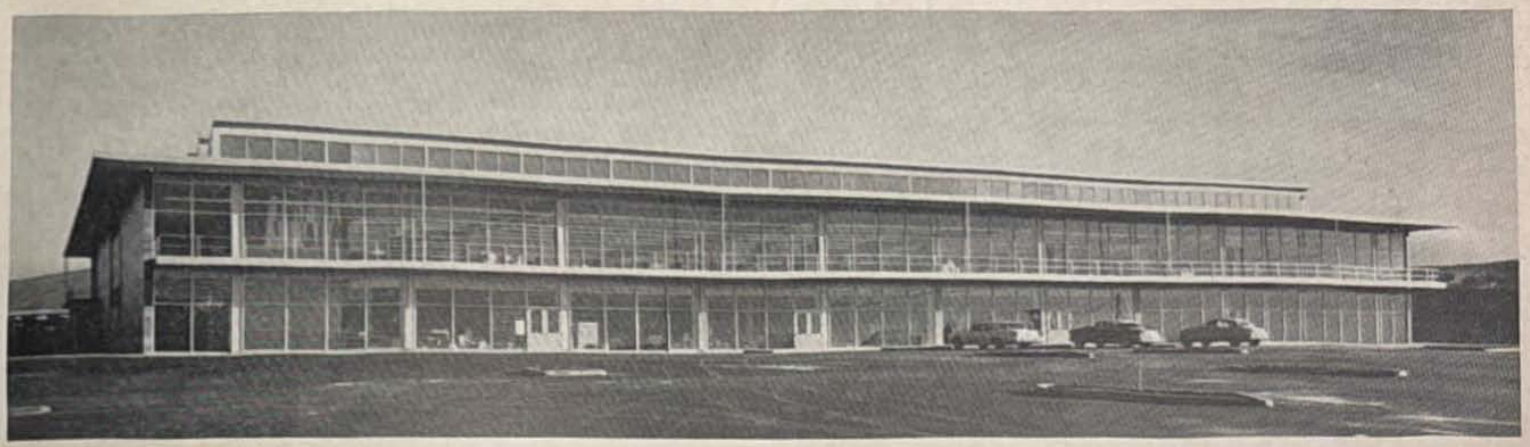
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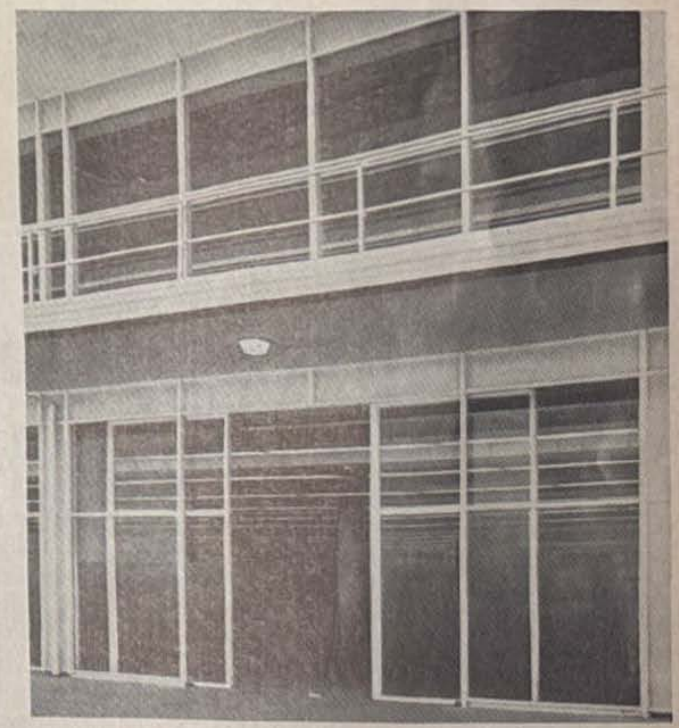
BETHLEHEM STEEL

Window Walls by Michel & Pfeffer



Hewlett-Packard, Page Mill Road, Palo Alto, California
Architects: Clark, Stromquist and Potter
Contractor: Wells P. Goodenough

...in the new Hewlett-Packard plant, Palo Alto

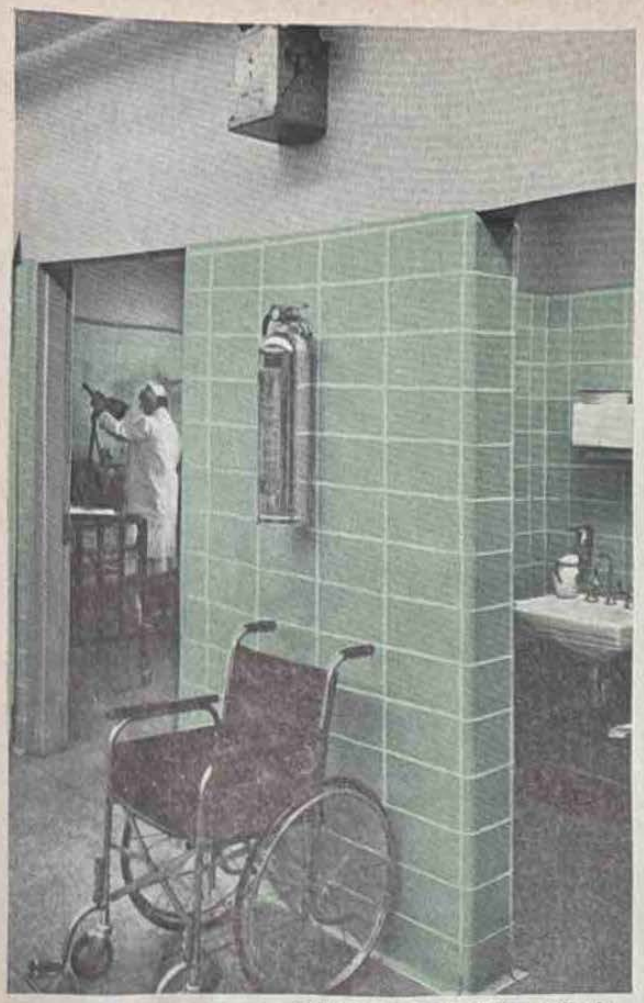


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Ford Motor Company, Milpitas, California
Architect: Albert Kahn, Associated Architects & Engineers
Glazed structural tile by Kraftile

CHEER FOR THE ILL & INJURED

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KRAFTILE COMPANY

NILES, CALIFORNIA

not specified

about this issue

The AIA Centennial program in the nation's capital last month was so complex that we can only touch the surface in our convention coverage in this issue (p. 10). We present simply a roundup of highlights, along with the complete text of the keynote address (p. 13). Additional convention material will appear in July and at least three other important addresses will be offered either in their entirety or in digest form in future months.

Bob Karolevitz, whose byline appears on PA&B's first special report, got the material for his article on the Minimum Security Building at the Washington State Penitentiary while handling an editorial assignment for the Department of General Administration. His 48-page booklet summarizes the progress made during the past eight years in the construction of state buildings and certainly constitutes first-rate public relations with taxpayers. To quote from the foreword:

"In making this special report, it is the department's intent not only to set forth the statistics of construction and of construction costs but, in addition thereto, to outline points of policy followed by the department in the allocation of construction funds and in the setting of standards of design for each of the individual building projects.

"Also, because the subject matter of this report will be reviewed by many whose interests are in facets other than the techniques of construction the editor has used terminology generally descriptive in nature rather than limiting comment to statistical matter and technical description."

The foreword points up the importance of preliminary planning too. "Countless conferences with heads of the operating departments, design studies by experienced, competent architects and engineers together with consultations with national research agencies have afforded a comprehensive background on which to base working drawings and specifications."

cruising down the river

For a good many AIA conventioneers, one of the most pleasant memories was the cruise down the Potomac to Mount Vernon. Although the boat was packed with more than 1,700 sightseers, the trip was an enjoyable one and a welcome relief from Washington's sweltering heat. At Mount Vernon the architects had an opportunity to see a special exhibition of drawings of the mansion, outbuildings, etc. In addition to refreshments, a buffet supper was served aboard, a full orchestra provided music for dancing and a calypso band performed on another deck. It was the sort of event which every convention needs to bring people together for a really successful meeting.

megalopolis

Our recent trip back east has helped us to understand the term Megalopolis which Dr. Jean Gottmann has given to the continuous urban area running from a line north of Boston to south of Washington. The area, with a population of close to 30 million, or almost one-fifth of the entire nation, is more than 600 miles in length and is gaining many of the characteristics of a single city. It will be the subject of a study to be made by the French scholar-author-geographer for the Twentieth Century Fund.

Megalopolis, of course, has implications for the rest of the country too. We see the many-city groupings around Los Angeles which already have reached to San Bernardino Island and, in Dr. Gottmann's opinion, may some day be united with San Diego on the coast. Around Chicago, on the shore of Lake Michigan, another impressive urban continuity is shaping.

R.E.K.

Pacific Architect and Builder

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THE COVER

Olympic View Junior High School, Mukilteo, Wash. (p. 18). Waldron & Dietz, Architects-Engineers; Art Hupy photo.

The Building Month: Trends/Views

THE LOS ANGELES METROPOLITAN AREA in 1956 led the country in building permit tabulation for the first time in its history. U.S. Department of Labor figures show that building construction there exceeded $1.5 billion, or $38 million more than the New York and New Jersey metropolitan areas.

FIVE SEATTLE AREA BUILDINGS have been cited in the seventh annual Honor Awards competition sponsored by the Washington State Chapter, AIA. They are, along with the architects: Lewis J. Dowell and John Russell residences, both by Paul Hayden Kirk & Associates; Bellevue Branch, Seattle-First National Bank, Mithun & Nesland, Ridenour & Cochran, Associates; office building for the Washington Conference of Seventh-Day Adventists, Robert J. Burman; and Olympic View Junior High School, Mukilteo, Waldron & Dietz (cover photo and p. 18).

THE WORLD'S FIRST SOLAR-HEATED OFFICE BUILDING, located in Albuquerque, N.M., survived its initial winter trials "satisfactorily," the American Society of Mechanical Engineers learned at its June meeting in San Francisco. Three engineers said that a system installed in their own offices last year "performed satisfactorily through the worst part of the winter including a much cloudier than normal January." They added that economic evaluation of their unit is not yet possible.

SOLUTION OF MANY PROBLEMS involving combustibles in buildings, the size and shape of structures, hazards from heat, smoke and poisonous gases and the use of automatic sprinkler systems "must be done on the drawing boards," chief engineer Horatio Bond of the National Fire Protection Association told that group's 61st annual meeting in Los Angeles May 25. He called upon architects and others concerned with building design to provide intelligent and imaginative solutions, adding that "eventually the content of courses in architectural and engineering schools must cover these areas of ignorance."

THE BEST IN CONTEMPORARY SWISS ARCHITECTURE AND DESIGN is being displayed for the first time in the U.S. at the National Housing Center in Washington, D.C., and will later tour the country under the auspices of the Smithsonian Traveling Exhibit Service.

SHOPPING CENTERS NOW IN OPERATION in this country total about 1,500 and an estimated 2,300 more are being constructed. These figures were given at the first annual meeting of the International Council of Shopping Centers, Inc., in Chicago last month. Delegates also were told that while national and local chain stores are essential attractions, if it weren't for the specialty shops every one of the nation's shopping centers would look exactly alike.

AMONG THE HOME BUILDERS TOURING POLAND THIS MONTH to study housing construction, design and conditions are three Californians: Charles Lee, Hayden-Lee Development Co., Beverly Hills; Carl Lawrence, Sacramento; and Ray K. Cherry, Hadley-Cherry, Inc., Los Angeles. The trip is part of an exchange of building experts arranged last year by the U.S. Department of State.

WORLD CONFERENCE ON PRESTRESSED CONCRETE in San Francisco July 29-August 2 will have a "sky's the limit note" when two structural engineers presently planning construction of buildings as high as six stories by the prestressed concrete lift-slab operation outline their methods. General arrangements chairman is Prof. T. Y. Lin of the University of California, conference sponsor.

SOUTHERN CALIFORNIA ARCHITECTS AND BUILDERS will compete for the best design in the field of health and comfort conditioning. First annual presentation will be made in December by the Institute of Heating and Air Conditioning Industries.

California 9% increase gives May volume shot in the arm

Bolstered by the feverish pace set in California, building permit volume for the second month in 1957 kept ahead of the total for the corresponding period last year in the five western states. A 9% increase in the Golden State offset drops in Washington (13%), Idaho (35%), Oregon (37%) and Montana (38%), adding up to $241,836,143 or a 1% overall increase.

Los Angeles chalked up a whopping $13¾ million gain in May over last year, although Los Angeles County went down $10¼ million. Other substantial jumps were Palo Alto, $7½ million; Pasedena and Fresno, each $4½ million; San Diego, $3 million; and San Diego County, $2 million. Decreases included Spokane, $3 million; Pomona, $2½ million; San Francisco, $2¼ million; and Portland, $1¼ million.

The total for May surpassed the April figure by an even greater margin, more than $9 million, with all states but Montana recording gains.

The January through May totals show that 1957 is running behind last year by close to $50 million but the trend of the last two months lends some justification to a more optimistic outlook concerning year-end tabulations.

	Jan.-May 1957	Jan.-May 1956
California	$ 855,073,588	$ 879,120,860
Oregon	49,726,083	61,419,693
Washington	113,963,424	125,265,200
Montana	11,027,062	11,707,721
Idaho	9,161,315	10,977,478
	$1,038,951,472	$1,088,490,952

Following is a breakdown of building permits issued by several major agencies during May.

	DWELLING UNITS		COMMERCIAL & INDUSTRIAL		PUBLIC	
King County	441	(4,300,940)	72	(1,112,480)	7	(822,740)
Seattle	612	(3,836,374)	172	(2,325,830)	2	(575,000)
Tacoma	151	(507,381)	57	(351,400)	2	(661,000)
Orange County	591	(7,311,551)	39	(681,780)	1	(26,125)
Sacramento Co.	448	(3,520,353)	91	(876,270)	8	(1,861,930)
Los Angeles Co.	1557	(19,739,630)	1208	(5,586,744)	22	(784,300)

Building Permit Totals for 116 Western Agencies for May 1957

CALIFORNIA	May 1957	Apr. 1957	May 1956
Alameda County	$ 3,232,000	$ 2,066,050	$ 3,303,000
Anaheim	2,597,407	3,407,609	3,644,740
Bakersfield	309,571	710,925	770,239
Burbank	1,575,262	1,198,635	1,814,754
Contra Costa County	3,567,798	2,283,932	5,734,939
Fresno	5,872,435	1,089,452	1,430,825
Fullerton	848,289	1,072,597	2,151,913
Glendale	3,148,692	1,561,323	1,497,593
Inglewood	931,292	590,745	774,235
Long Beach	3,509,875	8,859,808	4,985,935
Los Angeles	52,076,683	57,005,189	38,230,934
Los Angeles County	28,130,303	24,664,642	38,350,961
Oakland	3,386,717	2,979,426	2,505,226
Ontario	504,963	810,748	1,284,908
Orange County	8,370,171	5,743,660	5,764,698
Palo Alto	8,285,870	1,390,174	600,297
Pasadena	5,808,222	2,237,891	1,320,343
Pomona	1,210,535	837,515	3,779,829
Richmond	812,526	729,789	1,035,233
Riverside	1,559,546	1,066,261	1,714,778
Sacramento	2,185,751	2,824,550	4,686,121
Sacramento County	6,388,440	5,167,602	6,234,602
San Bernardino	1,596,752	1,258,719	2,683,969
San Bernardino County	6,454,386	9,090,746	5,042,207
San Diego	10,679,299	15,046,106	7,549,243
San Diego County	6,028,400	4,403,900	3,877,900
San Francisco	5,709,838	11,654,325	8,004,242
San Jose	4,889,575	9,147,945	5,611,155
San Mateo	1,015,306	862,651	1,208,758
San Mateo County	4,508,782	3,025,157	3,618,112
Santa Ana	2,391,618	962,201	801,880
Santa Monica	1,648,950	1,933,087	2,160,953
Stockton	3,169,289	1,120,111	1,800,779
Sunnyvale	1,661,875	4,417,580	2,494,388
Torrance	3,023,718	1,136,712	5,048,774
West Covina	1,419,909	1,470,965	1,301,480
TOTAL	$198,511,045	$193,918,728	$181,919,943

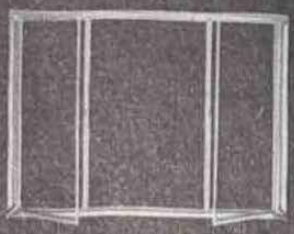
OREGON	May 1957	Apr. 1957	May 1956
Albany	$ 177,800	$ 209,000	$ 431,900
Astoria	54,585	22,610	38,254
Baker	40,890	188,030	22,520
Bend	258,100	110,921	56,276
Coos Bay	30,190	69,250	106,500
Corvallis	862,502	208,250	3,985,975
Eugene	351,470	1,091,608	1,486,570
Grants Pass	92,150	103,500	286,715
Gresham	244,317	49,875	131,100
Hillsboro	577,650	190,550	54,557
Klamath Falls	135,075	171,694	585,705
LaGrande	6,925	8,275	28,260
Lane County	740,459	925,737	1,045,895
Medford	450,125	282,275	560,867
Multnomah County	4,124,660	1,784,021	4,236,370
North Bend	81,208	31,825	70,327
Oregon City	15,845	71,900	112,584
Pendleton	108,517	108,120	318,190
Portland	2,803,115	4,058,400	4,173,515
Roseburg	57,922	15,574	470,570
Salem	444,558	307,620	455,894
Springfield	201,665	190,200	52,225
The Dalles	43,350	21,081	152,864
TOTAL	$ 11,903,018	$ 10,220,316	$ 18,863,927

WASHINGTON	May 1957	Apr. 1957	May 1956
Aberdeen	$ 208,900	$ 82,227	$ 45,670
Anacortes	26,991	193,635	92,165
Auburn	210,500	639,254	91,790
Bellingham	331,079	209,054	374,168
Bremerton	349,190	252,120	200,940
Centralia	65,304	55,737	98,834
Chehalis	81,670	150,710	115,000
Clarkston	10,865	43,680	34,815
Ellensburg	35,778	31,855	21,565
Ephrata	19,615	161,075	48,503
Everett	477,694	650,811	276,561
Kelso	17,200	53,500	75,500
Kennewick	306,930	127,760	220,740
King County	6,277,960	5,084,025	5,852,104
Kirkland	75,200	60,000	65,050
Longview	244,884	248,101	291,599
Moses Lake	70,689	71,040	226,750
Olympia	196,778	199,185	203,102
Pasco	51,555	132,410	154,095
Pierce County	984,036	2,238,107	2,882,249
Port Angeles	104,688	44,600	86,939
Puyallup	124,900	82,200	63,000
Ritzville	Nil	19,300	35,900
Seattle	6,897,879	5,462,250	5,070,025
Shelton	208,177	40,400	100,700
Spokane	2,648,036	2,196,210	5,588,310
Spokane County	1,378,547	2,266,294	2,253,649
Sumner	60,150	14,500	59,598
Tacoma	2,138,323	1,360,975	2,295,772
Vancouver	1,585,742	638,611	1,242,074
Walla Walla	271,895	73,780	136,585
Wenatchee	416,832	189,106	259,020
Yakima	765,505	302,880	2,210,774
TOTAL	$ 26,643,472	$ 23,393,392	$ 30,773,546

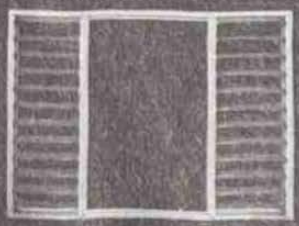
MONTANA	May 1957	Apr. 1957	May 1956
Billings	$ 252,000	$ 685,100	$ 756,900
Bozeman	152,000	105,500	83,100
Butte	506,657	79,035	155,243
Glasgow	59,315	20,178	152,581
Glendive	37,770	45,500	110,793
Great Falls	449,217	1,082,007	948,039
Helena	272,885	454,010	427,855
Kalispell	41,550	371,275	150,000
Lewistown	18,000	32,100	122,396
Livingston	280,255	69,340	110,450
Miles City	37,500	24,550	338,182
Missoula	64,319	183,912	157,275
TOTAL	$ 2,171,468	$ 3,152,507	$ 3,512,814

IDAHO	May 1957	Apr. 1957	May 1956
Boise	$ 500,527	$ 399,698	$ 487,756
Caldwell	186,995	61,300	65,630
Coeur d'Alene	187,330	87,059	290,775
Idaho Falls	578,445	536,200	1,046,417
Jerome	1,020	29,625	5,050
Lewiston	185,618	207,339	482,524
Nampa	408,050	122,050	293,900
Payette	225	20,950	29,725
Pocatello	316,730	229,175	1,139,463
Sandpoint	23,050	5,200	34,000
St. Maries	29,600	35,000	1,450
Twin Falls	189,550	149,935	156,250
TOTAL	$ 2,607,140	$ 1,883,531	$ 4,032,940
GRAND TOTAL	$241,836,143	$323,570,474	$239,103,170

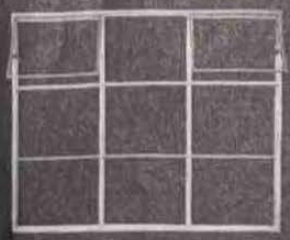
FOUR POPULAR STYLES



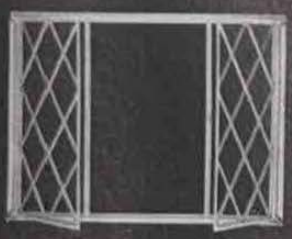
Bourne Aluminum Casements in a wide range of stock sizes.



Bourne Aluminum Jalousies for windows breezeways, porches.



Bourne Town & Country Windows for modern ranch house styling.

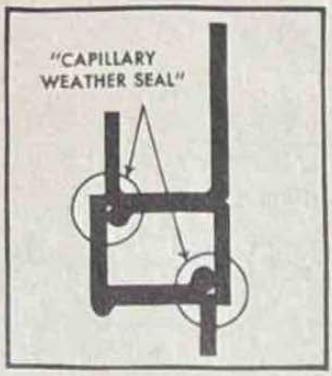


Bourne Diamond Patterns bring Old-World charm for modern homes.

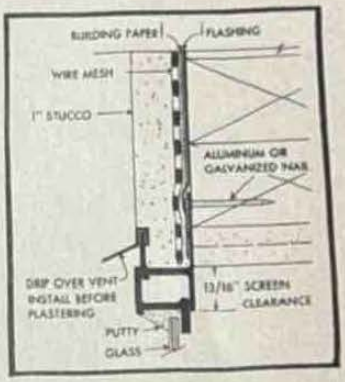
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Homestyle Center leaves Grand Rapids, seeks new site

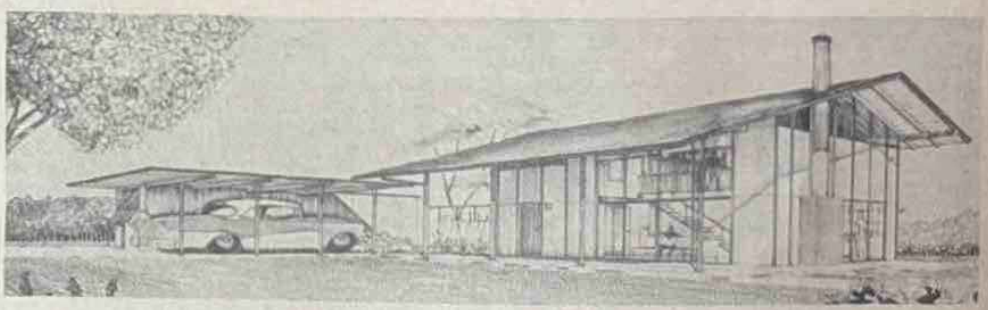
Groundbreaking for the Homestyle Center was scheduled for this spring on the outskirts of Grand Rapids, Mich., but all operations have been discontinued at that site. Arleigh C. Hitchcock, executive vice president, late last month announced, "We are presently discussing this move with groups from various cities who are interested in seeing the Homestyle Center brought to fruition."

A project of Home Research Foundation, Inc., it was conceived to become a permanent display and research center aimed at raising the level of home design, construction, furnishings and equipment.

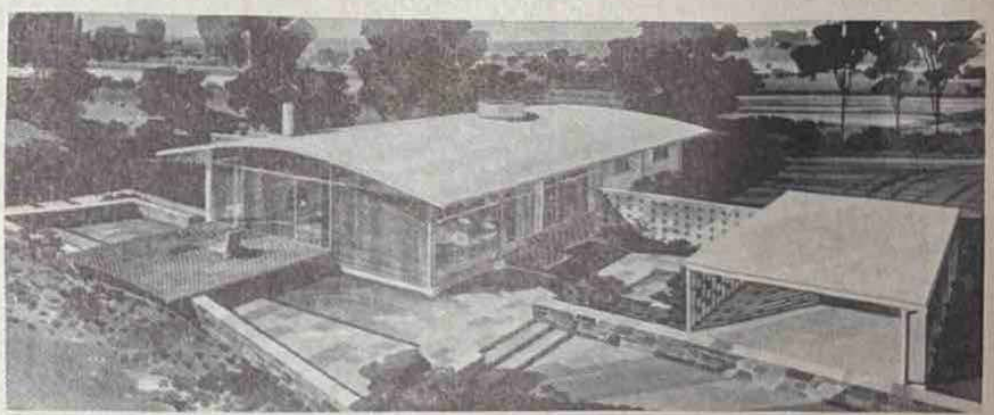
During the past two years the center has commissioned the services of architects, interior designers, landscape architects and consultant builders from all sections of the country. Four of the West Coast designs are shown on this page.



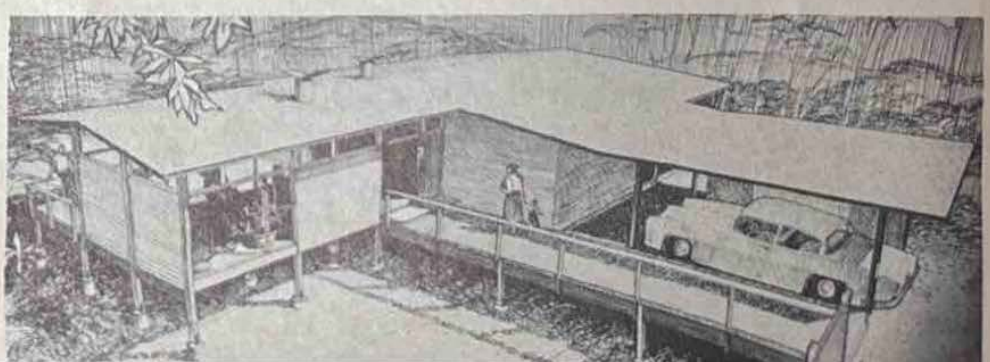
Steel-framed house providing utmost flexibility, with long-span roof beams eliminating interior bearing walls; exterior walls of thin plywood or plastic panels, double thickness of fixed glass or sliding glass doors; 1,200-1,500 sq. ft., costing about $17,000; three bedrooms, two baths. Jones & Emmons, architects; Harry Saunders, interior designers; Garrett Eckbo, landscape architect; Joseph Eichler, builder.



Tract-built type house for San Francisco Bay area, using mostly local materials; two-story plan for economy and to free as much of site as possible for outdoor living; 1,200-1,400 sq. ft., costing $16,000-18,000; three bedrooms, two baths. Wurster, Bernardi & Emmons, architects; Knorr Interior Planning, Inc., interior designer; Lawrence Halprin, landscape architect; August H. Rahlves, builder.



Retirement house for southern California demonstrating Oriental influence and minimizing housekeeping requirements; glued-laminated wood beams, arch shaped for form and good drainage, frame 27-ft. width in 10-ft. bays; 1,250 sq. ft. costing about $15,000; two bedrooms, two baths. Kazumi Adachi, architect; Norman Hansen, interior designer; Francis Dean, landscape architect; Ray K. Cherry, builder.



Budget house for young, growing family in Pacific Northwest, using natural materials and 8-ft. module framing for roof and floor; skylighted central kitchen; 1,290 sq. ft. costing $12,000-15,000; three bedrooms, two baths. Zema & Bumgardner, architects; Walt L. Kerr, interior designer; William G. Teufel, landscape architect; Albert Balch builder.

Symphony leader steals top billing

Registration exceeds 4,000 at Washington, D. C. sessions which produce several surprise stars

by ROBERT E. KOEHLER, Editor

A NEW CENTURY BECKONED a record-breaking number of registrants—4,300 in all—to the centennial celebration of the American Institute of Architects in Washington, D.C., May 13-17.

The architects and guests gathered in the Sheraton-Park and Shoreham hotels to hear leaders in the fields of technology, government, education, business, labor and the arts discuss the complex forces which shape human environment, or what re-elected president Leon Chatelain Jr. called "a reexploration of America," rather than the practice of architecture or the technical aspects of building.

It is only natural that such an unconventional approach to the national meeting would produce varying amounts of enthusiasm. But in the final analysis, to the architect who attended the majority of the sessions, the convention must have been a satisfying and at times quite stimulating experience.

Highlight of the program, to this writer at least, was a musical lecture presented by Dr. Howard Mitchell who proved to be as adept in analyzing architecture as he is in wielding his baton. Conducting the National Symphony Orchestra, he traced the parallel paths of "Music and Architecture in the Environment of Man."

Midway in the sessions the program got a real shot in the arm when Bennett Cerf gave a delightfully funny talk about the problems of publishing in general and Random House in particular.

The 89th annual convention got off to an auspicious start with a keynote address by Edward A. Weeks Jr., editor of the Atlantic Monthly, who discussed the social climate which is producing today's architecture. (See p. 13 for complete text.) And in the closing session Pietro Belluschi, FAIA, dean of architecture, Massachusetts Institute of Technology, expressed some doubts that architects are prepared for the enormously challenging task ahead. (A digest of his talk will appear in an early issue.)

Centennial banquet speaker Henry R. Luce, editor-in-chief of Time, Inc., called upon the federal government to set a standard of architectural excellence in its own buildings that would be an example for the rest of the country.

Of the several panel sessions, the one devoted to economics, or more specifically labor-management relations, was without a doubt the best organized, with Walter Reuther aptly demonstrating why he has risen to the chairmanship of the Economic Council of the AFL-CIO; and of the individual seminar papers, a discussion of environment by Dr. Paul Tillich, Harvard University professor, was perhaps the most provocative. (PA&B will carry this talk in July.)

In two other addresses of particular interest, actress Lillian Gish called for a Secretary of Art and Science in the nation's capital and Sen. Joseph S. Clark (D-Pa.) proposed creation of a Department of Urban Affairs with cabinet status.

Business sessions

The meeting became a "delegates' convention," as one AIA chapter president put it, when by a two-thirds vote they agreed to set aside a ruling from the chair that subjects read by the secretary could not be reopened for discussion at subsequent business sessions. Of the 20 legislative resolutions introduced, 16 were carried, including support of an advisory commission of the arts; two failed; and two were referred to the board. All by-law changes were carried.

The entire slate of national officers was retained and the nomination of Ulysses Floyd Rible of Los Angeles to succeed Donald Beach Kirby of San Francisco as director of the California-Nevada-Hawaii district was officially approved. The term of Donald J. Stewart as Northwest district director expires in 1959.

Music and architecture

"Architecture, we are told, is frozen music," Dr. Mitchell began. "Sir Joshua Reynolds has told us that architecture applies itself, like music, directly to the imagination.

"Music and architecture are more closely allied, perhaps, than any of their sister arts. They have certain



COMMEMORATIVE CENTENNIAL MEDAL is presented to President Eisenhower by AIA president Leon Chatelain Jr.



FOREIGN VISITORS include (l. to r.) Russian Ambassador Georgi N. Zaroubin, Russian architect Mordvinov and Polish architect Jerzyhryniewicki.



NORTHWEST REGIONAL DIRECTOR and Mrs. Donald Stewart of Portland at opening of exhibition "One Hundred Years of American Architecture."

at AIA Centennial celebration



NEW WORLD OF ECONOMICS: James Ashley, Dr. Emerson P. Schmidt, chairman Charles Luckman, AIA, of Los Angeles and Walter Reuther.



GOVERNMENT AND THE ARTS; chairman John S. Detlie, AIA, of Seattle, Dr. Howard Mitchell, Miss Lillian Gish and Dr. Leo Friedlander.



ENVIRONMENT AND THE INDIVIDUAL: Dr. George H. T. Kimble, Dr. Mildred C. McIntosh, Dr. Paul Tillich and chairman Dr. John E. Burchard.



basic things in common—good proportion, conformity among mass movements, flowing melodic line, high and low points of interest and a climactic focus of action which produces an emotional as well as intellectual impact. Both have abstract forms. Often musicians and architects employ the same terms in describing these forms—expressions such as warmth, texture, energy, movement, space and beauty.

"Of course musicians have advantage over architects in one respect. We can express our thoughts more safely. A good piece of music may receive the stamp of public approval and be played forever. Its composer, if he is living, and his descendants, if he is not, need not blush if his work proves to be worthwhile. On the other hand, a bad piece of music need never be played again. It can be locked away. It can easily be burned. It can even be eaten if the need is sufficiently desperate. Architecture is far more indigestible. A building is there for you to see and if it is a well constructed building but badly designed, it will outlive all our apologies. Like Mount Everest, it is there!"

Dr. Mitchell commenced his historical analysis with the cultural climax that took place in Greece in the latter half of the fifth century B.C. Concerning most recent developments, he had this to say:

"In the beginning of this 20th century many things were tried, both in architecture and in music. Some turned out seemingly well; some turned out very bad, even horribly. Le Corbusier, as an example, deliberately turned his back on the past, saying shockingly that a house is a machine—'a machine for living.' He had a musical counterpart, Arnold Schoenberg and his 12-tone scale, which to many is nothing but a machine for musical listening. Both have received much attention. It's difficult sometimes to know whether what they've done will have lasting beauty, or is simply bizarre. There is one point of agreement: the work is certainly different and to the professional artist, it's often interesting."

The conductor explained that today we have extremes in both architecture and music. "We have the architectural proponents of the International style—the one world, so to speak, who create the simplest possible design, abhore ornamentation and revere industrial materials. Their work often has an emotionless quality.

"There are, at the other extreme, the organic architects. They have few prejudices as to new or old. They employ natural materials, and harmony with nature. To them the site is everything. There are still other creative geniuses who pass through the battlelines of both sides."



NATIONAL SYMPHONY ORCHESTRA assists Dr. Howard Mitchell in musical lecture.

In his closing remarks, he declared that music and architecture both belong to the people of the world and they will have to decide what is good and what is bad. "This moves me to make a prediction. The pendulum is swinging away from mechanistic expression. We are entering a new romantic field of inspiration. It is abundant with individuality. To be great, architecture must be liveable, beautiful and of the earth. This is the same thing as saying that music must be listenable. The ability to startle is not enough. The performance must stand the test of time."

The city and architecture

If any one issue discussed during the AIA Centennial looms as the most important architecturally in the next 100 years, it is, as Belluschi put it, "whether the city itself can be saved as a social entity. Not the city alone but the whole visual world brought about by modern man's growing arsenal of technology has been up to now an insult to man's own nature. We see mostly disorder and ugliness everywhere, the obvious signs of a society still in a state of transition, a society which no longer places value on permanence, therefore on grace, because it assumes that improvements brought by a still advancing technology will continue to produce obsolescence.

"The central fact is that a new era is upon us and that none of the previous social experiences can quite guide us; we must find our way."

Government and architecture

"Predicting a staggering mass of building" over the next 25 years, the editor-in-chief of Time told the Cen-

tennial banquet audience that the United States was on the verge of creating architecturally the first "modern technological, prosperous and reverent civilization." The American revolution in architecture has been accomplished, he added.

Luce explained that good architecture is not only good economics but it is good government. Recalling that all the good architectures of the past had been sponsored by autocratic governments, he urged the architectural profession to demonstrate that real political freedom is not "uncompatible with persuasive beauty." Luce continued:

"Modern architecture did not grow up in the palaces of emperors or maharajas. It was not designed to proclaim pomp and glory—except the glory of a free and self-respecting people. Modern architecture, or at least a large part of it, grew up in response to the people's needs. They were badly housed; let us build good, clean, economical housing. That is only one example of the fact that modern architecture is not the servant of imperial luxury or of aristocratic vanity; it had to meet an economic test and its chance for freshness and vitality was in making use of the vast wealth of material and technology produced in a profit-and-loss economy.

"To be sure, a great deal of bad building is being done and people make money out of bad building. But the affirmation remains. I am speaking of the idea which is now implanted in our civilization: good architecture is good economics.

"But government is more than economics. Government must stand for things, for principles, for ideals. Government must be a symbol. And architecture is, above all the symbolizing art.

"I would be the last ever to agree that human life is bounded and prescribed by economics. Let us clearly reject the economic interpretation of history or of life—a narrow wretched philosophy shared by Marxists and robber barons. Life is more than economics! And so is architecture.

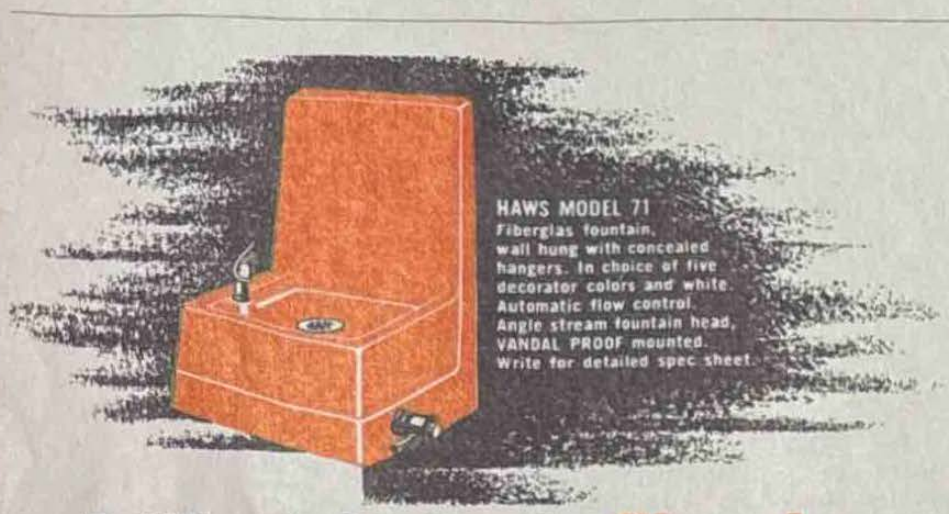
"But will you be given the chance to transcend economics, the chance to express the non-economic, the more-than-economic character and aspirations of the American nation? That is what we must mainly strive for, now—to get buildings, many of them, big and little, which point beyond themselves to the best in American life. The chance to express more than economics must be given you by the home builders of America, by the industrial corporations, by the universities and notably by government in all its many branches, federal and local.

"The relation of government to architecture may be put under two heads. Most importantly perhaps is the effect of government laws and policy on architecture. Government's influence for better or for worse is enormous in terms of urban renewal, city planning, housing policy, even the lowly local building codes. All Americans who wish to build a better America must learn how to teach politicians that bad architecture is bad politics."

In urging the government to sponsor an architecture characteristic of democracy and dignity, Luce applauded the State Department for its new policy in the designing of its embassy buildings. He said:

"Some of the new embassies are triumphs of modern architecture. They are also great acts of statesmanship. The Department of State deserves, I think, an award from this institute not only for the buildings themselves but for the magnificent directive under which they are being built. The Department of State has written a Magna Carta of fresh, imaginative architecture—an architecture of symbolism, symbolizing the dignity of this republic and its profound concern for all mankind.

"What we have done abroad we must do at home. We must do it here in Washington and down to every country courthouse and post office."



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In his keynote address at the AIA centennial, the editor of the Atlantic Monthly serves as a 'spiritual weathervane, pointing where the wind is blowing'



by EDWARD A. WEEKS JR.

Buildings which shape our lives

SPEAKING as one centenarian to another, let me begin by congratulating you on looking so much younger than your years. In America where we discard what we don't like with such devasting swiftness, any institution which has lived to be 100 must have endeared itself to the country at large. This is true of the American Institute of Architects just as I like to think it is true of the Atlantic.

When a man or woman has lived to the ripe age of 100, we ask them to tell us their secret of life. Well, I think one reason for the Atlantic's longevity is that we have changed our editors more frequently than any of our competitors. Whenever there was a sag in our circulation, we brought in a new editor. He was always a young man and his first duty was to attract young writers and young readers.

I suspect that the reason why the AIA is so alive today is that you have managed to keep together in an outspoken but happy family the Traditionalists, the Transitionalists and the Modern architects. This must have take firmness and tact, for you could so easily have broken apart as the art institutes have done. Instead, and very wisely, you have chosen to rub off on each other; you have pooled your resources and your fiercely differing tastes, and there is no doubt in my mind that you have all gained in vitality by so doing.

Ahead of us "A New Century Beckons," and all this week you will be peering forward, seeking to determine the new aspirations, the new opportunities, the new dangers which will call out your talent and forethought in the years immediately ahead. I am honored that you should ask me to be your keynoter; I had such a happy time with you at the Boston convention when you came to hear me at the Hotel Statler with the breakfast coffee hot on your breath. This evening I am going to try to be a kind of spiritual weathervane, pointing where the wind is blowing and showing what architects and editors, those arbiters of taste and thinking, need to do if they are to construct a life worth living in this ever-multiplying America.

For the past year I have enjoyed the sensation of living in two centuries. For part of each day I have been looking forward planning the contents of those special 20th century issues of the Atlantic which will celebrate our centennial in the autumn, and for the other part—usually in the evening—I have been looking back, back to the 19th century, familiarizing myself with the early editors and reading those contributors whose work gave luster to the magazine long before I was born. I think what strikes me most is the leisurely way in which they did things.

The Atlantic was founded and christened at two gargantuan feasts which were held at the Parker House in the spring of 1857. A group of gentlemen, including Emerson, Longfellow, Oliver Wendell Holmes, James Russell Lowell, Underwood and Phillips, sat down to dine at three in the afternoon, and they did not rise—perhaps they were unable to—until eight in the evening. Under the stimulus of oysters, steak, burgundy and brandy, money for the new periodical was found, the policy defined, the first editor Mr. Lowell (who was then 38) was chosen and the baby was formally christened the Atlantic Monthly. Just to make sure they hadn't been dreaming, they assembled at the same hour the following afternoon, ate and drank their way through another five-course meal and tidied up the details.

Two of their decisions were unique: first, they decided to make this an American periodical, and that was a daring thing to attempt when all our competitors were busily engaged in pirating or importing English authors; secondly, it was decided that the entire contents should be published anonymously. When you think of the fame of their leading contributors—Hawthorne, Thoreau, Emerson, Longfellow, and Lowell—you will see how magnificently confident they were and how little they cared for publicity. "The names of contributors will be given out," said Emerson, "when the names are worth more than the articles."

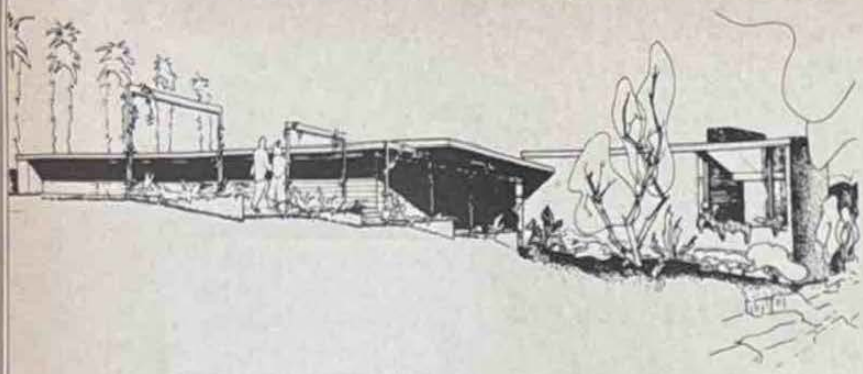
Remember that this was taking place at a time of great tension when the Union was in jeopardy and passions were running high. It was a year of financial depression; money was tight; and people were worried. Abraham Lincoln was unknown outside Illinois. There was no trans-Atlantic cable and no telephone. "Our age is an age of daring and doing," wrote an Atlantic contributor. "The world has advanced from a speed of five miles an hour to 20 or 30 or more." (He meant of course by railway.)

Darwin's provoking book, "The Origin of Species," was still in manuscript; not until two years later would it challenge all orthodox belief. Dr. Sigmund Freud, who was to have such a profound effect on all 20th century writers, had just been born. Thanks to Horace Mann, girls were at last admitted to our high schools on an equal footing with the boys. A woman teacher in the Boston public schools was paid $6.50 a month; a full professor at Harvard, such as our first editor, James Russell Lowell, received $1,200 a year.

In the architecture of that year Boston was capable of the very good, of the audacious and of the very bad. The Boston Athenaeum, that cool, spacious, beautifully lighted library on the top of Beacon Hill, is an example of the very good. It is an oblong Italianate building designed by Cabot & Cabot, which you will recognize as a Boston firm, and it distills as conducive an atmosphere for reading as I have ever found. True it looks out on a burying ground but then so do many of the public buildings in Boston. Burying grounds provide us with breathing room, air space, trees and flowering shrubs in the close confines of old Boston, and it might amuse you to know that in the cellar of the Athenaeum are some of the old tombs and gravestones. The architects needed the space and instead of changing their drawings, they decided not to worry the city fathers—they just arched a bay over the encroaching graves, and no one was the wiser.

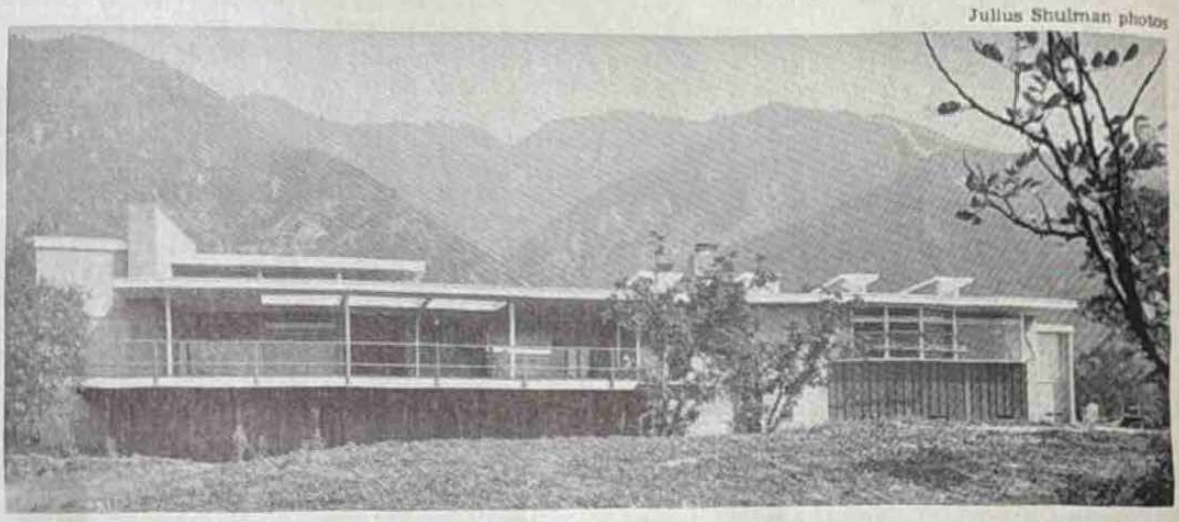
In the 1850s we were beginning to fill in with oyster shells the foundation of the Public Garden and the long mall

Continued on p. 31



APPROACH SIDE is made up of blank walls but redwood trellises guide step down to roofed deck entry. Covered wood balcony off living room and den and expansive use of glass make most of scenery on view side.

Julius Shulman photos







SLAT DECK has ample space for growing plants selected mainly for form and texture, lighted for viewing at night. Wide roof overhang provides sun protection.

John Wilfong Residence
Altadena, California

AIN-JOHNSON & DAY
Architects

PALLISGAARD & WILSON
General Contractors

Windows for looking out--not for looking in

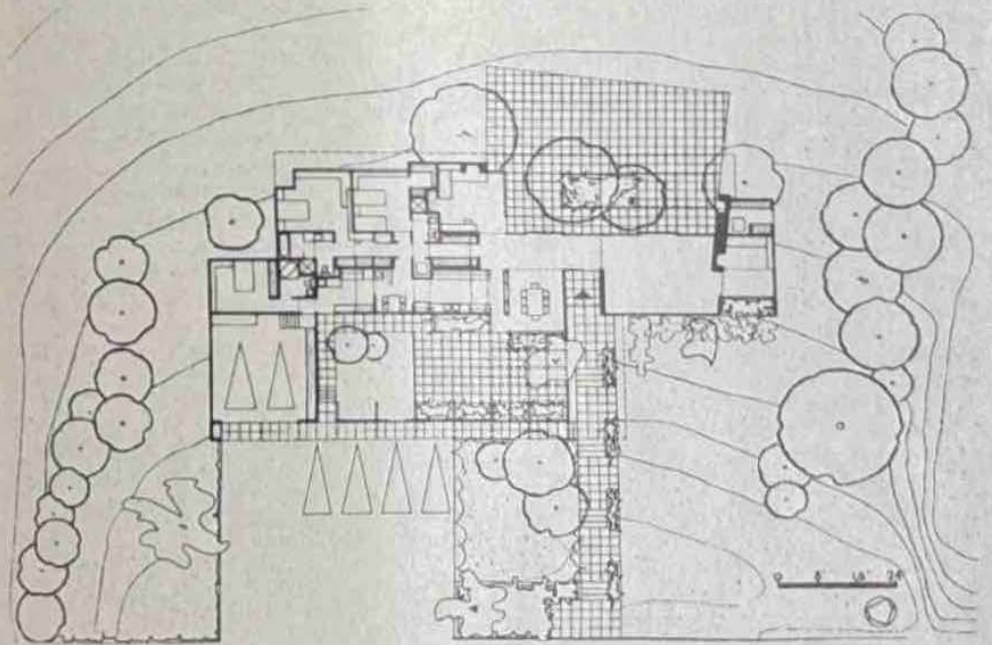
LIBERAL USE of wide sliding wall elements has helped to achieve a real graciousness of living in this long, narrow house on a spacious and gently sloping orchard lot overlooking the city and approached by a private road.

The clients wanted to take full advantage of what nature had accomplished with their location. Sliding walls were used, therefore, so that the living room, den and dining room could be opened into one another or shut off. The dining room opens directly onto its own outdoor patio but also commands another magnificent view across a glassed-in loggia by means of a 12-ft. sliding wall.

The house is largely glass on the view side, while the entrance side consists of blank walls. The windows, the architects make clear, are for looking out—never for looking in." Among the techniques used to aid the transition from inside to out is a planting well in the slat deck (1,176 sq. ft.) off the living room. Ornamental strawberry, with juniper for contrast, covers the slope in the approach area.

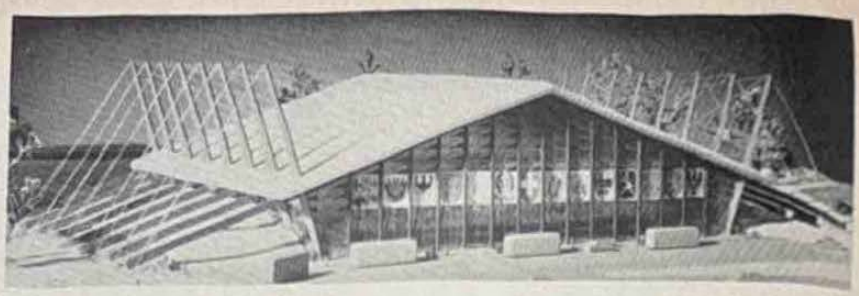
Four skylight bulkheads over the low-roofed portion provide light and ventilation for the bathrooms and dressing rooms, giving interior circulation and bringing the morning sun into the kitchen where the other main windows face north.

A two-way fireplace in the 22x52-ft. living room juts out to provide a semi-secluded alcove which doubles as a television area.



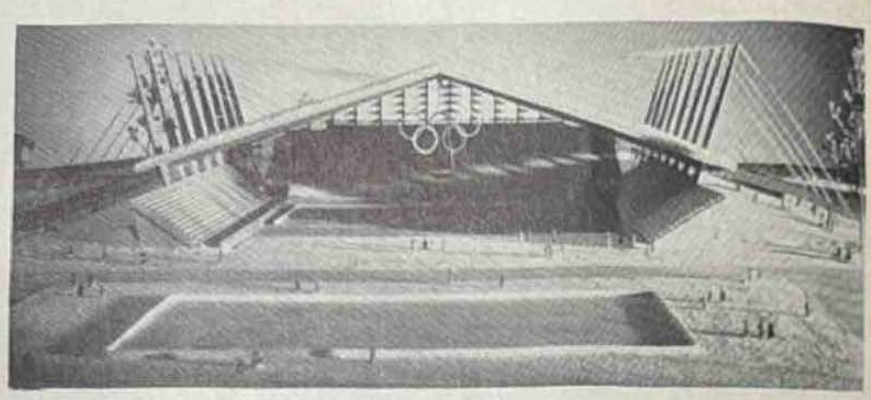
OUTLINE SPECIFICATIONS

Type of Construction: Wood frame on concrete footings.
Exterior Walls: Redwood and stucco.
Roof: Composition and gravel.
Floors: Wood finished in cork.
Doors: Slab.
Interior Walls: Plaster and wood over gypsum lath, with Milcor plaster stops for trim.
Ceilings: Plaster.
Insulation: Alcoa aluminum foil in roof and west walls.
Heating: Forced air gas system.
Total Area: 2,984 sq. ft., floor; 1,512 sq. ft., roofed deck and entry porch; 1,176 sq. ft., covered wood balcony.
Total Cost: $36,000 (including utilities and sales tax).



ENCLOSED ON THREE SIDES, north elevation exterior will display decorative seals of participating nations. Fourth side will be completely open to sun from south, offering view of speed skating rink and ski jumps beyond (see model below) and placing in silhouette Olympic symbol and flame suspended from roof.

Arena for 1960 Olympic Winter Games at Squaw Valley



CORLETT & SPACKMAN
KITCHEN & HUNT
Architects Associated

H. J. BRUNNIER
JOHN M. SARDIS
Structural Engineers

PUNNETT-PAREZ & HUTCHISON
Consulting Engineers

VANDAMENT & DARMSTED
Mechanical Engineers

OFFICE OF CLYDE C. KENNEDY
Sanitary Engineers

ECKBO, ROYSTON & WILLIAMS
Landscape Architects

SQUAW VALLEY IS SITE of small and comparatively undeveloped ski resort. Parking areas at right.

Phil Palmer photos



GREAT SNOW DEPTHS at Squaw Valley, Calif., posed a major problem in planning the enclosed ice arena which will house the opening and closing ceremonies of the 1960 Olympic Winter Games, along with figure skating and ice hockey events. It was necessary to design the 300-ft. clear span roof to carry loads up to 100 psf. or to develop a means of snow removal.

Two other problems arose: condensation occurs in such arenas, creating icicles and dripping from roof members on the spectators and on the skating surfaces; and the Olympic Arena, to seat about 8,000 persons, will be used for special events which may take place in extremely cold weather.

In considering the heating of the entire building and/or roof, the possibility of using reverse cycle refrigeration for a heat source was studied. The contemplated refrigerating plant has a capacity of 600 tons, which would produce 9,000,000 Btu., much more heat than required. (About 15,000 Btu. of heat per ton must be dissipated or wasted in a normal refrigeration system.) A complete analysis indicates that such a system can be used economically to melt snow, reduce condensation and partially heat the entire building.

Economical methods were sought to distribute the air. The roof deck of formed cellular steel spanning about 12 ft. is used to carry heated air for melting the snow and preventing condensation. Areas under the bleachers are used to carry the main air, partially warming the seats and permitting such ducts to be completely concealed.

In addition to the steel deck, the roof structure consists of rolled steel beam purlins spanning 33 ft. and the main supporting frames spanning 300 ft. The latter are tapered columns built up from steel plates, tapered steel box girders and inclined cable tension members. Each half of the main frame acts independently in somewhat the manner of a guy derrick, with the roof girder functioning as the boom, the column as the mast and the inclined cables as the guys. Cable anchorages are provided by deadmen of concrete and masonry, the extended roof girders resisting the horizontal thrust.

The ridge of the roof being located perpendicular to the long axis of the rink permits the maximum rise and number of choice seats parallel to the rink and facing the open vista of the valley. It also offers an unobstructed view over the entire arena for press, radio and television facilities.

Main access to the arena is through the lobby which extends the full length of the north elevation. Access to the main seating section is through openings at the mezzanine level, eliminating the need for cross aisles. Bleacher seats can be removed from above or below.

Gay colors—yellows, greens and reds—used both inside and out will be set off by the white snow.



Bring a little outside inside

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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.



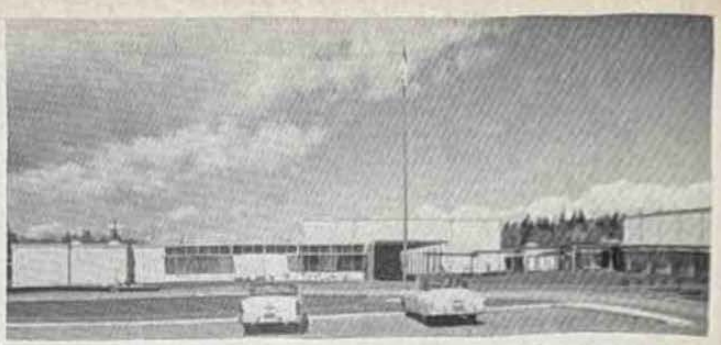
CATALOGS (S) IN SWEET'S

Soulé
LEADER IN METAL WINDOWS

3732

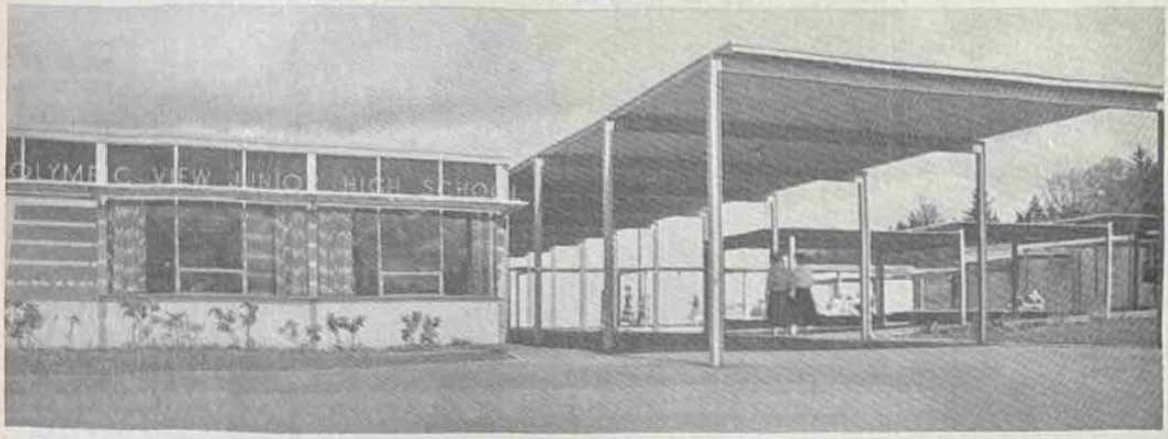
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Seattle 4100 West Marginal Way, HOlly 3600 • Spokane East 41 Gray Avenue, RIverside 7-8063
Phoenix 2026 South 11th Avenue, ALpine 3-3178 • Salt Lake City 220 Greyhound Building, EMpire 3-7728
Dallas 528 Interurban Building, RIverside 1-5225



SPACIOUS ENTRY AND PARKING AREAS are well integrated with total plant, can be surveyed from administrative office, seen below to left of steel frame corridor.

Art Hupy photos



School that looks to an orderly future

Olympic View Junior High School
Mukilteo, Washington

WALDRON & DIETZ
Architects

ROBERTA WIGHTMAN
Landscape Architect

HEDEEN CONSTRUCTION CO.
General Contractor

INITIALLY DESIGNED to accommodate 400 students, this school plant has been planned to allow for ultimate population twice that size. The architects, who were awarded the contract prior to the purchase of the site, are quick to commend school officials (headed by Superintendent Olin Simpson) for "such a farsighted and comprehensive outlook toward their planning problem" in achieving an orderly, coordinated expansion program.

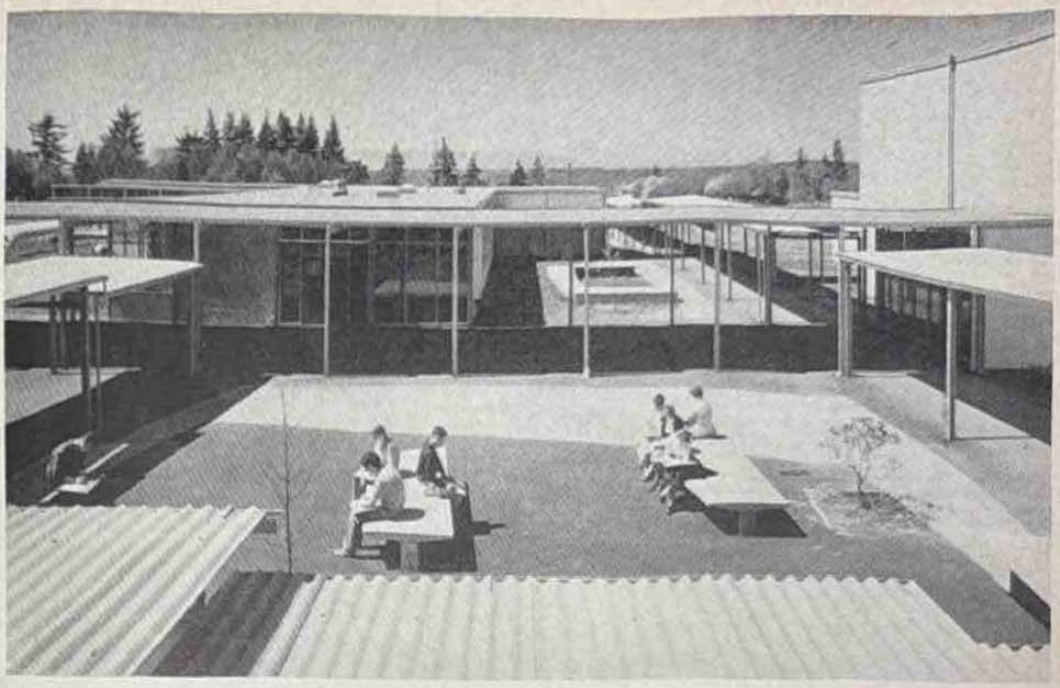
Consultations between the designers and school board members, which eliminated more than one difficulty sitewise, led to the purchase of 27 acres, about 20 of which will be intensively used for building, parking, bus loading and unloading, football and baseball fields and tennis courts, with the remaining seven for future bus terminal garage facilities.

The simple campus type plan connects the main building blocks with an outside corridor of steel frame supports and a covering of corrugated cement-asbestos board; the main entry corridor is of steel frame and steel decking. In addition to tying the units together, this network of walkways form courts in which have been placed some seating and planting. These hubs in turn serve as an interesting nucleus for social relations and as a pleasant transition from one building block to another.

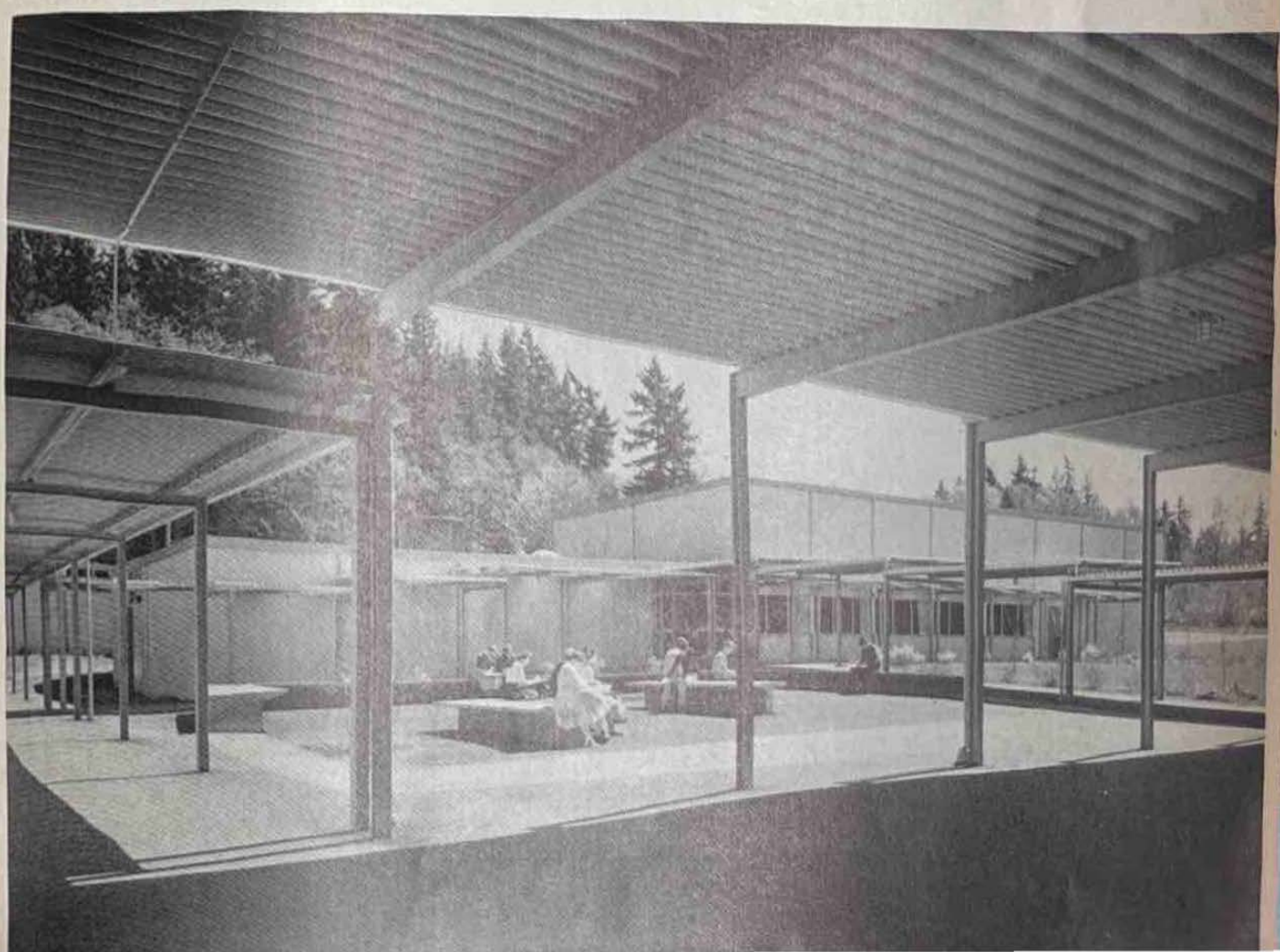
The first unit of the total plant consists of nine general classrooms and seven others for home economics, art, science, woodworking, music and physical education (two teaching stations); two locker and shower rooms and auxiliary spaces; multipurpose unit; library; two offices; health unit; kitchen; teachers' room; conference room; heating plant; storage areas; and six toilet rooms. Expansion provisions call for nine to eleven more classrooms and additional space for music and chorus, home economics, science and woodworking.

Primarily a concrete structure, the exterior walls are of reinforced concrete and structural steel combined in such a manner as to enable the contractor to cast lift panels on poured concrete floors, tilt and weld all joint connections.

The architects collaborated in part with the landscape architect during preliminary planning and construction and as soon as the latter was completed, landscaping was begun. As a result, the school took on a finished look at once and many serious water and ground erosion problems were avoided.



In selecting this project for an Honor Award in the 1957 competition of the Washington State Chapter, AIA, the jurors commented: "A junior high school simple in plan and details in which provision has been made for an orderly and coordinated expansion program. The jury was particularly impressed with the central student court that appears to form a hub of all activity centers."





LIBRARY CAN ACCOMMODATE 70 students at one time, is indicative of overall airy feeling found in school.

JUNIOR HIGH SCHOOL

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete.

Exterior Walls: Painted tilt-up reinforced concrete and structural steel.

Roof: Wood with supporting members of steel bar joists.

Floors: Concrete slab covered with asphalt tile except maple in gymnasium and quarry tile in toilets and kitchen.

Interiors: Plaster over wood stud partitions.

Ceilings: Acoustically treated perforated cane board.

Heating: Oil fired hot water.

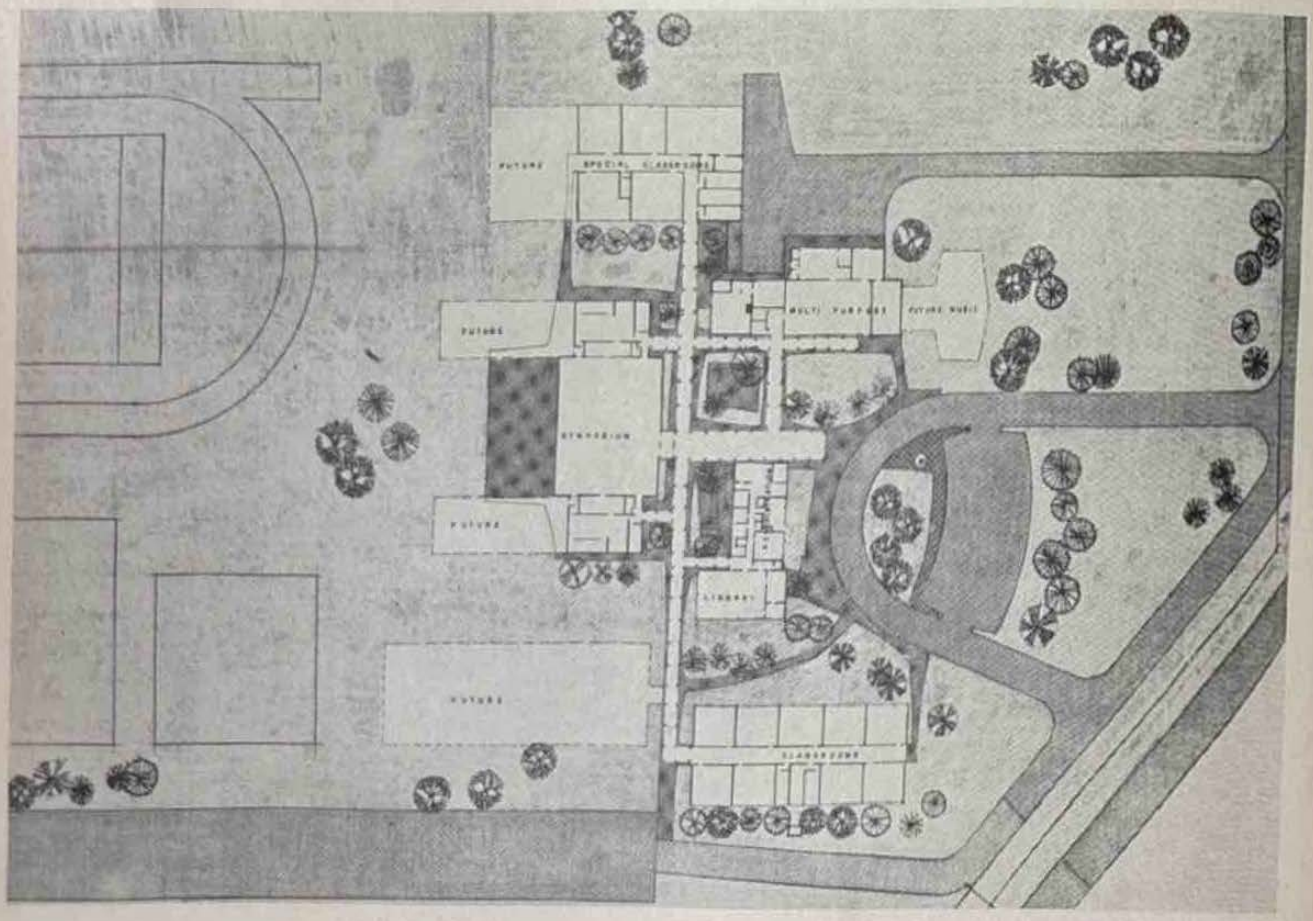
Ventilation: Central fan units providing air exchange in all rooms.

Lighting: Incandescent except fluorescent in administration office and kitchen; corridors naturally lighted by patterned wire glass set in O'Keefe skylights.

Total Cost: $685,000 (including architects' fee and sales tax).

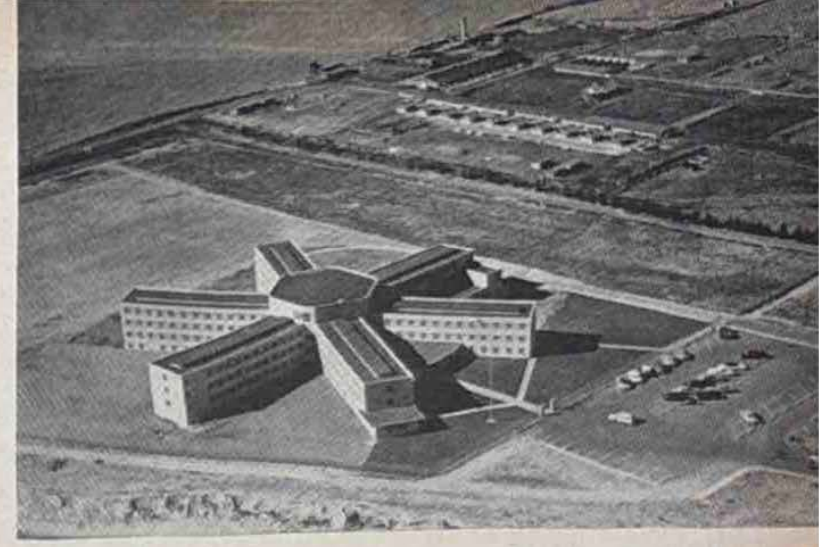
Total Area: 48,387 sq. ft.

Date of Completion: September 1957.



PA&B special report

Washington State's Minimum Security Building is a harbinger of advancements to come in replacing medieval custodial facilities with those better suited to modern techniques of penology



JOHN W. MALONEY, AIA
Architect

HENRY GEORGE & SONS
General Contractors

New thinking in prison construction

by BOB KAROLEVITZ

WHEN THE STRANGE six-wing radial type building began to rise on the flatlands outside the walls of the Washington State Penitentiary at Walla Walla, there were doubts in the minds of a few citizens.

Weren't iron bars and high walls the only **real** answers to prison construction?

Was the state about to launch on a coddling campaign of her lawbreakers?

Possibly those questions were legitimate at the time but since then the Minimum Security Building at the penitentiary has been completed and has had adequate time to test the philosophies of those who were instrumental in the design of the institutional structure. Those citizens who had doubts about the building's functional values fortunately found their fears without foundation.

Through the years the theories of custody, treatment and rehabilitation have undergone considerable change. It would readily follow that the facilities in which these programs were practiced should also be part of the evolution.

Washington State Penitentiary had its beginning before statehood when the new territorial prison received its first prisoner on May 18, 1887. In those days custody—often cruel and inhumane—was the only reason for a prison or jail of any sort. The buildings were erected specifically to accomplish that end: to lock men up and keep them there.

Unfortunately, while the students of penology were making long strides forward, the money was never available to destroy the old strap front, bucket type cell blocks entirely and erect modern structures designed to meet the advances of prison management and control. So it is that the penitentiary at Walla Walla has become the scene of the widest of extremes in prison architecture.

When money became available under a $20 million bond issue program for the 13 state institutions, prison authorities got their opportunity to achieve a most important goal. Their needs were actually three-fold: 1) to obtain more housing units, 2) to make possible the segregation of prisoners and 3) to facilitate a pre-parole training period.

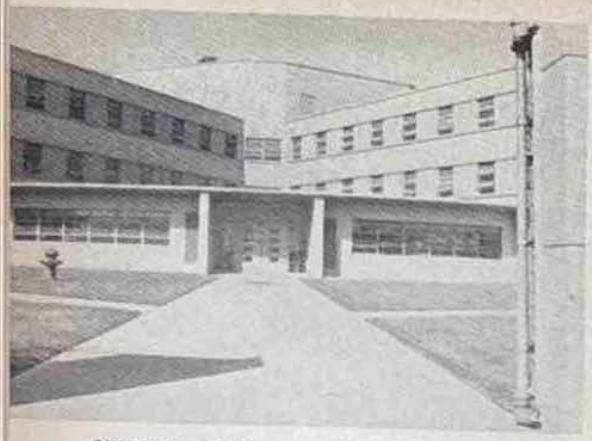
The $1½ million building which eventually resulted took into consideration each of those needs. First of all it provided domiciliary facilities for 296 more prisoners. Being located outside the wall of the prison proper, it was designed to assure the warden and his associates the segregation program they so sorely needed.

Segregation of prisoners can best be described by the old saw, "One rotten apple will spoil the bushel." Neither the best interests of society nor the individual are served by dumping into a single cell block inmates of varied security risk, criminal tendencies and rehabilitative potential.

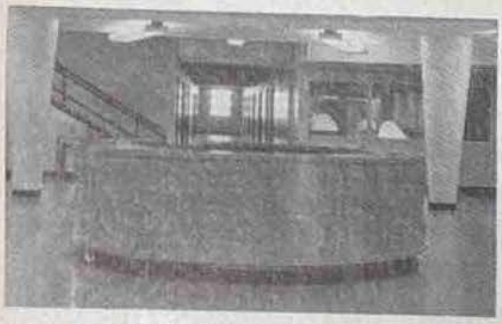
Thirdly, it has been learned through the years that failure to prepare "short-time" prisoners for ultimate release often resulted in their quick return into custody. A transitional period under conditions of minimum restraint and maximum personal responsibility provides this needed step to help the prisoner make a successful return to society. Again the new building made such a program possible.

The wheel-like design of the new eastern Washington installation is not just a whim off the drawing board of the architect. It was so conceived for economies in both first cost and cost

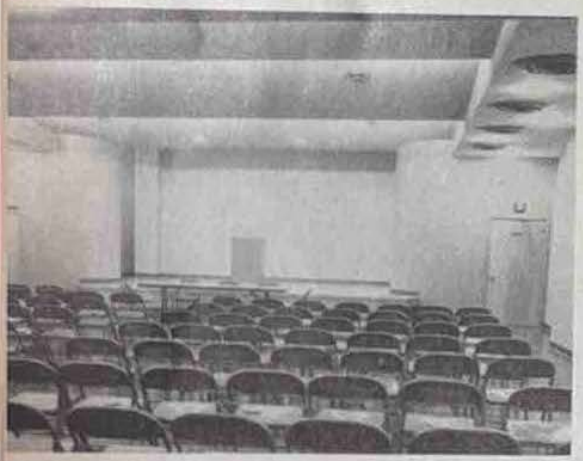




SIZEABLE AREA around building is enclosed with 8-ft. chain link fence.



GUARD CAN OBSERVE each of six wings from central desk.



MULTIPURPOSE AUDITORIUM is among special facilities found in basement.



CRAFTS-AND-HOBBIES SHOP is well lighted and spacious.

of operation.

The housing portion of the building figured out at a cost to build of approximately $2,790 per inmate. This is roughly one-half the current cost of building a jail cell block of like capacity. The savings resulted in many extras for the structure.

Economies in guard personnel and ease of security control result from the building design. From his position in the rotunda or hub, a single guard can oversee the corridors of all six wings on his floor. The design also provides a maximum number of outside rooms, a factor which has a notable psychological effect in preparing men for their ultimate freedom.

Though psychiatric type detention windows are used throughout, there are no bars on doors to the individual rooms. Each prisoner is charged with the upkeep of his own small area which is modestly furnished with table, chair, steel cot, mirror and built-in drawer space.

Such accomodations after a prisoner may have spent years in a cell block existence fall into the too-good-to-be-true category and few, if any, men risk the chance of jeopardizing their stay in the building by breaking regulations or failing in the housekeeping department.

Built primarily of reinforced concrete, the Minimum Security Building has three stories and basement. Besides the dormitory-like accomodations for the individual prisoners, the structure also boasts such basement facilities as a multipurpose auditorium with moveable seats, gymnasium, crafts-and-hobbies shop and kitchen and dining area.

The latter, is one of the highlights of the building, with terrazzo floors and completely tiled walls for easy maintenance. Stainless steel is used throughout the kitchen area which serves both in a production and training capacity. The kitchen also features walk-in freezing units, bakery and butcher shop. The in-prison freedom for the men is further evident in the dining area where food is served cafeteria style and the prisoners eat, not at the usual benches but at prison-made tables for four.

Bright, cheery colors have been used almost entirely in the decorating scheme. It's this departure from the usual drab penitentiary hues which strikes a visitor when he first enters the building's spacious lobby area. The same feeling prevails in the adjoining glass-enclosed visiting lounge.

Prisoners who have qualified for entry into the Minimum Security Building are generally assigned to outside-the-wall tasks in the garden, the dairy, the hog ranch, the poultry farm and the harvest fields. The operation of the building itself, including the kitchen force, requires other work details.

These work assignments, coupled with the general atmosphere of life in the new building, really offer a preparatory school for the return to society.

Of course, the usual hard-headed comment about being soft with our convicted criminals continues. But when it is considered that upwards of 500 men are released from the Washington State Penitentiary each year, then the problem of their adjustment to life on the "outside" looms to considerable importance.

Buildings alone do not make a successful prison; but there are times when specialized facilities become extremely valuable. It all boils down to the fact that dollars spent to accomplish successful releases prove a much greater economy than dollars expended for additional cell blocks to house maladjusted returnees.

OUTLINE SPECIFICATIONS

Type of Construction: Reinforced concrete, fireproof and earthquake resistant.

Exterior Walls: Painted monolithic concrete.

Roof: 20-year bonded tar and gravel over 2-in. rigid, insulation, copper flashing.

Windows: Psychiatric type steel detention sash glazed with clear sheet glass.

Doors: Hollow metal equipped with electric locks controlled from officers' stations, exterior and stairs; solid core unselected birch with hollow metal frames, interior.

Floors: Concrete slab with terrazzo in kitchen and dining room, asphalt tile in corridors and rooms, ceramic tile in toilet and shower rooms.

Interior Walls and Partitions: 2-in. solid plaster on metal lath, rooms; exposed concrete, stairs; exposed concrete block, basement; structural glazed tile, kitchen, dining hall and shower room.

Ceilings: Perforated acoustical tile, kitchen, dining hall, corridors and visitors' area; painted concrete, elsewhere.

Elevator: Plunger electric freight type connects kitchen receiving area with basement.

Heating: Oil fired boiler plant in basement provides circulating hot water for room convectors.

Ventilating: Supply fans in penthouse distribute filtered and washed air to rotundas, dining hall and other public areas; forced exhaust systems for kitchen, toilet and shower rooms.

Electrical: Basement transformer vault is served by 2,400-volt primary underground service; engine driven generator provides current for emergency lighting.

Total Area: 111,400 sq. ft.; 1,356,000 cu. ft.

Total Cost: $1,639,000 (including services, roads and 8-ft. chain link fence enclosure).

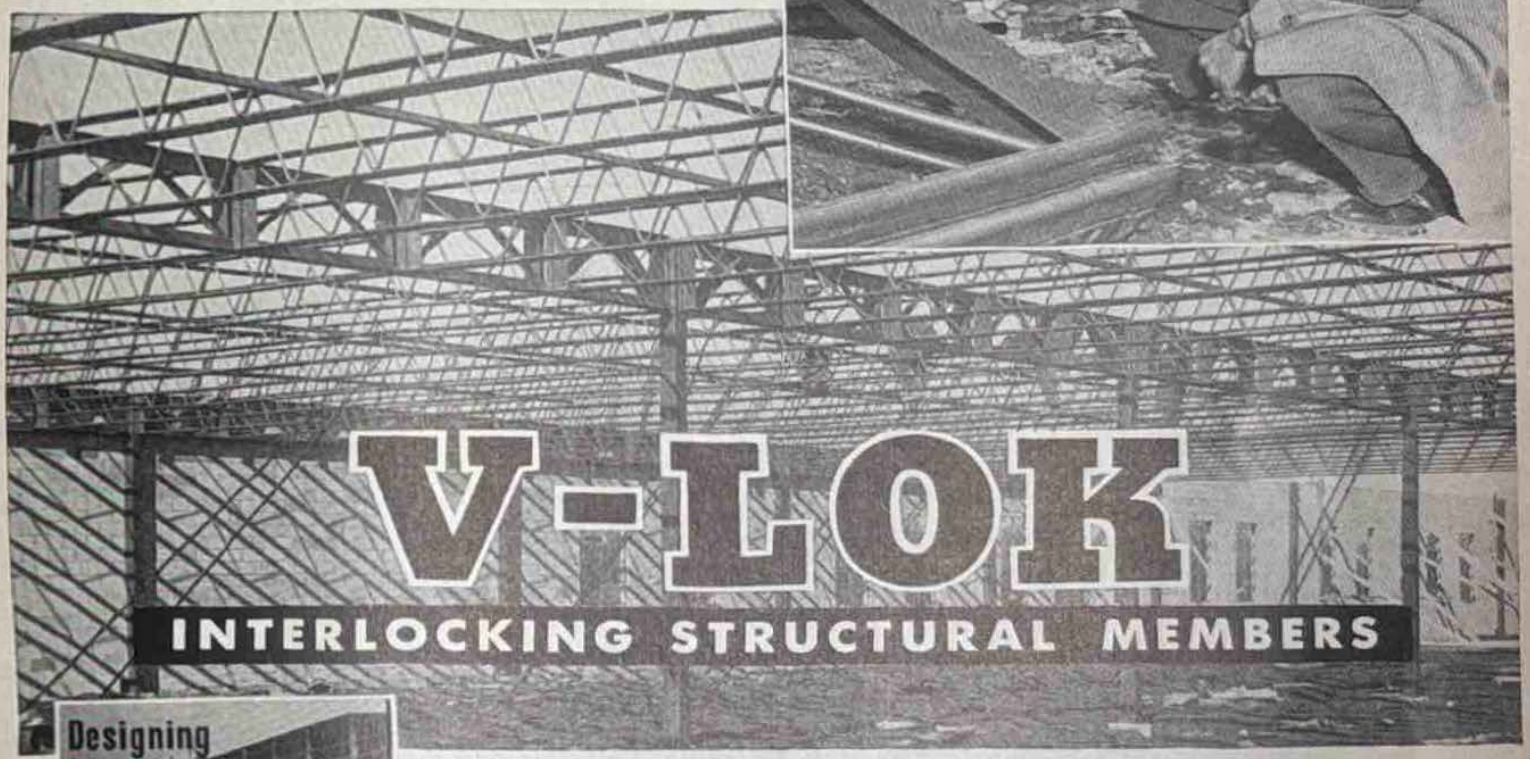
Date of Completion: January 1954.

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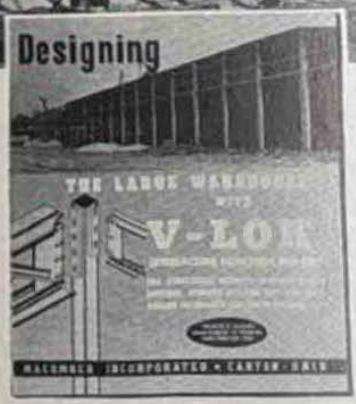
Joseph O. Divell, Perry Truck & Erection Co., Erie, Pennsylvania
Roland A. Ketzel, General Contractor, Erie, Pa.





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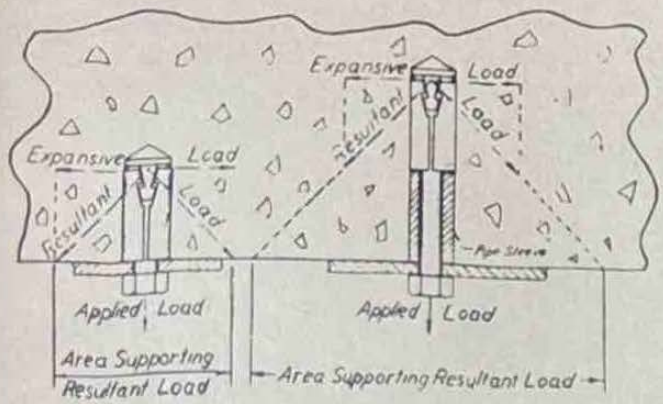
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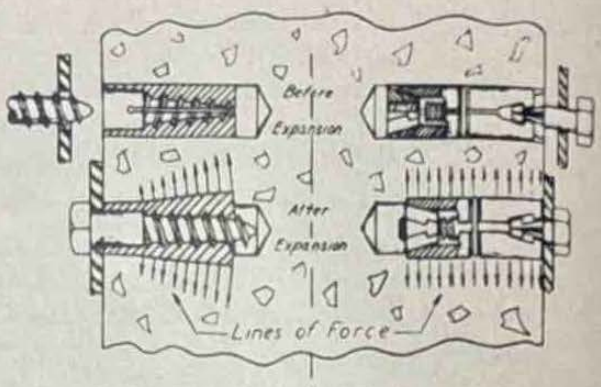
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FLUSH ANCHORING FIG 1A

DEEP ANCHORING FIG 1B



FIXED EXPANSION FIG 2

VARIABLE EXPANSION FIG 3

What's new in expansion bolts?

by LYNE S. METCALFE

'In the minds of the building contractor as well as the architect there has been a deep concern for load limits on any type of fastening'

AMONG the many advances made in construction and building techniques, materials and devices may be counted those which have to do with the fastening to masonry and later, to the various wall and partition materials which have been available.

The job of fastening to masonry has been a problem since building began. The first important progress in this field was the issuance of a patent on the first successful expansion bolt shortly before the turn of the century. Until this new basic principle was conceived the general practice was to laboriously cut a hole in masonry by means of crude tools or star drill and insert an iron rod or bolt in the hole and pour hot sulphur or hot lead around the bolt.

This, of course, was easy enough in floors but presented a real problem in making attachments to walls. In this case, the general practice was to insert a piece of wood and make a fastening to the wood plug by means of a wood screw or a nail. Attachments to ceilings became even more of a problem and the failure of these primitive methods has always been a source of considerable concern to building and construction activities.

Not only was it necessary to provide a means of attachment to this type of wall but also to hollow tile, plaster, plaster over lath, plasterboard and the new type of building construction known as dry wall construction. In the minds of the building contractor as well as the architect there has been a deep concern for load limits on any type of fastening, both on sheer loads such as fixtures hanging from walls and direct pull or axial load sometimes called tensile load for fastenings to ceilings. In addition there has been the problem of vibration in such instances as the attachment of motors.

The word expansion bolt is something of a misnomer as it has been developed in recent years. A more descriptive term, less generally used in the trade, would be expansion shield or expansion anchor.

Since the turn of the century, when the basic mechanical principles were conceived the first commercially accepted expansion shield was granted by the U. S. Patent Office, a considerable amount of engineering development in masonry fasteners has been accomplished; and with the resultant improvement in expansion shields such organizations as the Bell Telephone companies and public utility firms concerned about the permanency of their installations on masonry and hollow walls have set up standard procedures in the use of expansion shields.

Says Carleton H. Bunker, president of Diamond Expansion Bolt Co., Inc., pioneer in the engineering and design of masonry fasteners: "The greatest problem in masonry attachments has been to make the hole in masonry in which to insert the expansion shield or bolt. The cost of drilling a hole has far exceeded the cost of any expansion shield and under today's high labor rate, this factor is proportionately greater."

"With this in mind, our company and others in the field have concentrated on the development of anchors with small outside diameters which will sustain sufficiently heavy loads. The outstanding example of this development is without question the nail type expansion shield which (in the case of our product) is made of a forged aluminum shell with an inside core designed to expand longitudinally when the proper size nail is hammered into the shell. An anchor of this type properly installed and using only a ¼-in. hole drilled 1-in. deep in a good grade of concrete will develop a tensile or axial load of one ton.

"Another important development in connection with the use of expansion shields has been that of the carbide tipped masonry drill which is used in a rotary electric drill and which, under average conditions, will drill at a satisfactory speed and consequently reduce the labor cost in the installation of expansion shields. Unfortunately, when this drill was introduced it sounded like the answer to all drilling problems. Good percussion type drills are available and percussion drilling is the real solution in some types of particularly hard concrete or bluestone mix."

Many unique ideas have been developed for making attachments to

masonry that eliminate the uses of expansion shields or drilled holes; however, for permanency of installation and for high holding power, these other devices have not always proven adequate.

Research continues to want to improve the holding power of expansion shields and develop them to a point where the possibility of failure through human elements in the case of poor installation has been reduced to an utmost minimum. It is too infrequently realized that the care in drilling a hole has the greatest bearing upon the ultimate load that can be sustained by an expansion shield or the weakness in the masonry to which the attachment is made.

Another important factor frequently overlooked is that the holding power is increased as the depth of the installation is increased (Figures 1 and 2). All too frequently the failure of an expansion shield is due to the concrete or masonry breaking away. When this happens, it breaks away in a 45-deg. angle from the base of the drilled hole. Obviously, if the hole is deeper, a greater mass of concrete or masonry must give way before the attachment will fail.

Holding power tests, as given in some cases, can be misleading and indicate freak conditions. Expansion shields as presently manufactured by the leading companies in the industry will, when properly installed, withstand a load greater than the breaking strength of the bolt as issued by the bolt industry, the published tensile strength being as follows:

¼" - 2202	½" - 8803
⅜" - 3427	⅝" - 13754
¾" - 4950	¾" - 19779

Reliable manufacturers hesitate to claim holding power of expansion shields because of the high element of the human factor involved in a poor installation. Secondly, as previously mentioned, the type of masonry is a main factor. Obviously, an expansion shield if given a deep insertion in 1-2-4 mixture of well-aged concrete is going to hold a lot more than the same installation set a surface depth in a brick wall or, as too frequently happens, in the mortar between the bricks.

Here a point should be made in identifying or pointing out the difference between a fixed type of expansion shield and one that has variable amount of expansion (Figures 2 and 3). A good example of the former is the popular lag screw expansion shield. This is basically two shells with a core having a gradually decreasing diameter toward the back end. The tapered lag screw as it is turned into the shield starts to expand it and creates the maximum expansion when the lag screw is turned all the way in.

In order to fasten work securely with this type of shield, obviously the lag screw must be turned "home." This means that the hole must be almost perfect so that the maximum amount of expansion must concide with complete insertion of the lag screw. If the hole is too large maximum expansion will not be reached; consequently, the holding power will be less.

A good example of the variable type of expansion shield is the double machine bolt shield. This has a tapered nut on the inner end and a tapered cone on the outer end. After the machine bolt is turned all the way home, it begins to pull the shield forward against the tapered cone, expanding the front end of the shield and pulling the nut in at the back, thus setting up a parallel expansion which can be increased as the bolt is tightened. Again, this type of expansion shield is going to develop a greater holding power. The holding power is the resistance against withdrawal of the sides of the shield against the sides of the hole and the greater the surface contact between the shield and the hole, the greater its resistance to withdrawing.

In addition to these types of expansion shields, there are many others for fastening to masonry, the lead type for both wood screws and machine screws. The wood screw type has a variable amount of expansion due to the inner core construction which has been patented. The machine type screw anchor is basically a lead sleeve over a tapered hard metal cone. This type of anchor is set in the wall and calked in with a tool provided for the purpose.

In the case of attachments to hollow wall, probably the most popular fastening device has been the toggle bolt, the first of this kind being known as the gravity type toggle which was a pivoted bar on the end of a bolt, riveted loosely with one arm being longer and consequently heavier. As it was inserted in a drilled hole and pushed forward enough into the hollow space in back of the wall, the heavy end toppled over and became a cross bar which was pulled tightly against the back wall and a nut threaded on the outer side for making attachments.

A later development brought out the spring type toggle wherein the two arms were pivoted and actuated by a spring, which assured positive opening on the inside of the wall.

"This has developed into the most popular method of fastening until just recently when we introduced a new one-piece fastener under the trade name of Wing-Ding," Bunker explains.

In spite of the seeming perfection of expansion shields and anchors as developed today, research continues to look for a still better way to make permanent, secure and dependable fastening to masonry.



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MOVABLE WALLS: A movable interior wall system called Horizon offers almost unlimited design possibilities in shape, color, materials and textures while retaining the functional and economic advantages of modular construction and mass production. Any type of wall panel surface—wood, metal, plastic, vinyl fabric, glass—and any type of combination may be used. Posts may be round, oblong, fluted, oval or they may be hidden. All components are based on the 4-in. module. First installation of the system will be made this summer in the House of Seagram in New York.—E. F. Hauserman Co.

(Item No. 1)

FASTENERS: For rapid installation and high-tensile preload, the Huckbolt fastener has proved itself in the Kaiser aluminum dome where 19,000 were installed by a 38-man crew in just over 20 on-the-job working hours. They are recommended as a replacement for hot or cold driven conventional rivets, bolts, welding or other customary joining methods. No clamps or fit-up bolts are required. Consisting of a pin and a collar, the Huckbolt fastener is available with pin diameters of 3/16, 1/4, 5/16, 3/8 and 1/2 in.—Huck Manufacturing Co.

(Item No. 2)

METAL PANEL: A pattern with 4,032 reflective levels per sq. ft. that creates an ever-changing composition of lights and shadows has been developed for Rigid-tex Metal. Designed in 48-in. width, it is suitable for large surfaces



such as the exterior of curtain wall panels or for interior applications. Since repeat of the pattern is not obvious, 1-RL can be used for large surfaces without fear of monotony. Available in all metals and colors, the pattern is said to strengthen the metal both horizontally and vertically. Maximum gauge is .062 in., maximum pattern depth, .073 in.—Rigidized Metal Corp.

(Item No. 3)

LIGHTING FIXTURES: A line of stainless steel lighting fixtures are designed to harmonize with the trim metals of modern institutional and commercial buildings. The wall pocket and bracket lantern models are available in either the embossed pattern surface or in the smooth satin surface; the ceiling light and half cylinder pocket models only in the latter.—The Novelty Lighting Corp.

(Item No. 4)

STORE FRONTS: To eliminate at-the-site cutting and fitting of store fronts, Overly is offering a service that factory fabricates the sections to the architect's specifications. Sections are



locked together at the site and tilted into place. Overline Tilt-A-Front is available in bonderized steel with baked enamel color finish or stainless steel in any style. Colored glass or insulated steel panels may be substituted for the ¼-in. plate glass or thermopane.— Overly Manufacturing Co.

(Item No. 5)

ROOF DECKING: Designed for use with open beam or cathedral ceiling construction, Armstrong's Cushiontone combines in one material roof decking, acoustical efficiency, insulation, vapor barrier and interior finish. It is composed of layers of asphalt-impregnated insulation board laminated to an interior surface of insulation board which has been perforated to muffle noise and painted with a flame resistant finish. Made in 2x8-ft. planks, 2 or 3 in. thick, it is also available without a vapor barrier (2-in. thickness only) for use in sections of the country where the average January temperature is 40 deg. F. or above.—Armstrong Cork Co.

(Item No. 6)

WALL HEATER: Designed for motel and apartment installations, the Safti-Vent gas wall heater is one answer to the problem of adding some heating to single family dwellings. The 16,000-Btu. model fits under standard modular windows and its combustion chamber is completely sealed from room air. The heater fits in a 7¼-in. hole through the wall and operates on natural, mixed, manufactured or propane gas.—H. C. Little Burner Co., Inc.

(Item No. 7)

HIP-ROOF VENTILATOR: Designed for maximum ease of installation, the Series 50 low-silhouette, hip-roof ventilator incorporates a baffle under the rear of the hood and a weather flange around the top of the stack to keep out the rain and snow. The wide 4-in. flange makes for a quick, weather-tight installation and the 8-in. diameter stack readily accomodates round duct for kitchen fan applications. Available in .025-in. aluminum or 26-gauge galvanized steel, the vent provides 41 sq. in. of free area.—Leslie Welding Co., Inc.

(Item No. 8)

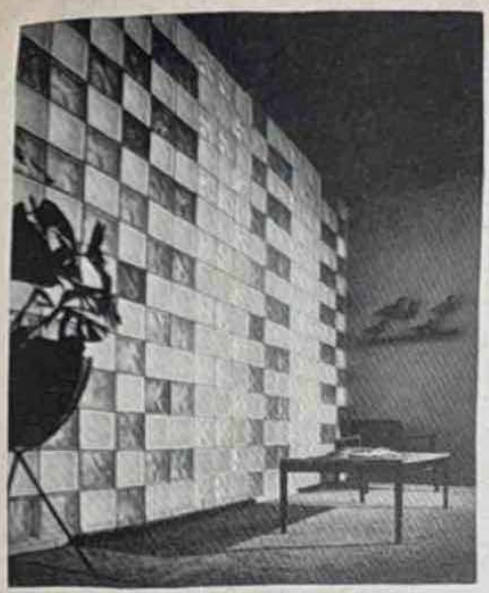
ELECTRIFIED FLOORS: Reinforced concrete floors that provide complete electrification for modern office buildings are now possible with a system which features Type E-R (electrically ready) Cofar cells. These units are wide troughs capped to form raceways through which wiring for office equipment and telephones may be pulled to any desk or office machine no matter where it is located. The cells are used between conventional Cofar units, deep corrugated, high-strength steel sheets 2½ ft. wide and up to 14 ft. long with traverse wires welded across the corrugations. The steel serves as a tight form for wet concrete and becomes the main positive reinforcement when the concrete sets.—Granco Steel Products Co.

(Item No. 9)

WOOD-STEEL FENCE: California redwood is combined with steel chain link to produce a sturdy fence with the attractive features of the redwood and the ventilating qualities of the chain link. The rustic redwood pickets are woven in the steel links with both sides presenting an equally trim appearance. Rustakes fence is available in heights up to 6 ft.—Cyclone Fence Department, United States Steel Corp.

(Item No. 10)

COLOR GLASS BLOCKS: All sorts of intriguing design possibilities are opened up with the introduction of color glass blocks by Pittsburgh Corning. To start with, the company is offering blue, green, yellow and coral with a median light transmission range of about 25%. Blocks have a fired-on translucent ceramic finish which tests have shown to be non-



fading and unaffected by acids, alkalis and sulfides. The company expects the color blocks to give new impetus to use of glass blocks in curtain wall construction since they offer the advantage of installation by one trade, little maintenance, a finished wall both inside and out and now color. Limited production is underway on the 8-in. square size.—Pittsburgh Corning Corp.

(Item No. 11)

Latest Handbooks, Manuals and Literature

Yours for the Asking

STAINLESS STEEL: The winning entries in Allmetal's first annual awards program—three magazine articles of most value and interest to those who specify or buy stainless steel parts or components—have been assembled in a 16-page brochure. The titles: "Design of Stainless Steel Curtain Walls"; Selection and Application of Stainless Steel in the Chemical Process Industry"; "How to Form Stainless Steel."—Allmetal Screw Products Co., Inc.

(Item No. 12)

WATER HEATERS: Data File 16 contains all you need to specify and select P-K copper-lined hot water storage heaters for any industrial or commercial installation. Found within the file cover are 1) diagram of construction details and recommended minimum specifications; 2) eight-page tabular section of dimensions, heating capacities and engineering data; 3) installation suggestions and piping arrangements; and 4) advertised case histories of typical installations.—The Patterson-Kelley Co., Inc.

(Item No. 13)

ROLLING GYMSTANDS: Wayne's 16-page catalog does more than just show installations of its four basic types: standard, recessed, movable and balcony. It lists complete architectural specifications and planning aids, including typical floor plans; provides dimension tables giving floor space requirements, open and closed, and seating capacity for each gymstand model; and has a sight-line study indicating correct rise per row for good visability. A section on accessories illustrates special equipment for customizing these units to particular applications—Wayne Iron Works.

(Item No. 14)

SCHOOL TABLE SEATING: How to solve shortages that exist in many school buildings are treated in two booklets issued by Sico. Illustrated with installation photographs, the 24-page piece shows how the company's tables can convert gymnasiums, hallways and other multipurpose rooms into eating areas. The experiences of four school administrators are outlined in the 12-page booklet.—Sico Manufacturing Co., Inc.

(Item No. 15)

WATERPROOFING: An eight-page brochure on Glasfab tells the purpose of a reinforcing membrane in below-grade waterproofing work and also gives job history reports of field applications. It also contains specifications on both hot and cold process methods of application.—Twinsburg-miller Corp.

(Item No. 16)

AIR DIFFUSERS: An 80-page manual has diagrams, tables and photographs to aid in the selection of Anemostat diffusers and accessories for all-air high velocity as well as conventional air conditioning systems and units in hotels, hospitals, schools, stores, theaters, churches, restaurants and commercial office buildings. All types of round, square and straight line diffusers are illustrated by more than 90 photographs. Other features: air distribution definitions, sound level characteristics, static pressure factors and typical installations.—Anemostat Corporation of America.

(Item No. 17)

WOOD PRESERVATIVE: "Now Wood Gets a 'Vaccine' Too" is the provocative title of a four-page brochure which shows how wood, impregnated with preservative by what is known as the Dri-Vac method, is protected against moisture absorption, swelling, shrinking, grain raising, checking, decay and termite and fungi attack. Virtually any type of wood up to 16 ft. long, including flooring, framing, dimension, decking, siding, doors and trim, can be subjected to the controlled vacuum according to predetermined specifications and come out fully treated.—Robbins Flooring Co.

(Item No. 18)

FIR PLYWOOD IN SCHOOLS: Illustrations and text in an eight-page brochure delineate advantages of using fir plywood in school construction. Discussed are applications as roof decking, subflooring, etc., for concrete forms, for exterior siding and interior paneling and for built-ins. Specialty products also are described.—Douglas Fir Plywood Association.

(Item No. 19)

INSULATION: The results of a study on mineral wool insulation at the NAHB experimental project in Austin, Texas, have been published in a booklet that includes detailed cost information on each house. According to the data, actual construction costs were reduced by application of thick mineral wool insulation rather than the minimum amount required by FHA because smaller air conditioning units were needed. Operating costs for heating and cooling also were considerably lowered. Author of the booklet is John R. Watt, associate professor of mechanical engineering at the University of Texas and formerly chief analyst for NAHB at the experimental village built in 1954.—National Mineral Wool Association.

(Item No. 20)

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NEW PARTNERS: Richard Doudna and A. Robert Williams have formed a partnership for the practice of architecture in Yakima, Wash. Doudna received his degree from the University of Michigan in 1952, Williams from the University of Washington in the same year. Both formerly were employed by the firm of Maloney & Whitney and later by its successor, Cowan & Paddock.

In Los Angeles Robert Kliegman, AIA, has formed an association with M. Tony Sherman, AIA, of Miami, for the design of buildings on the West Coast. The two architects collaborated on projects 10 years ago when they practiced in New York City.

REORGANIZED FIRMS: Charles O. Matcham, FAIA, of Los Angeles has reorganized his firm, to be known as Charles O. Matcham, Stewart S. Granger & Associates. Granger, who has been with the office for the past year, has become a partner, while Matcham continues as senior member of the firm. Both are active in the Southern California Chapter, AIA.

Associates in the firm are Ira Tron, AIA, and Edla Muir, AIA. Tron practiced in New York City before coming to California in 1946 and Miss Muir had her own office in Los Angeles and in Ellensburg, Wash., before becoming associated with Matcham this year.

Two Seattle architectural and engineering offices have joined forces under the name of Nickum, Lamont & Fey, at 71 Columbia St. Principals are George C. Nickum, managing partner of W. C. Nickum & Sons who will carry on marine design work under their present name; Daniel Lamont, AIA; and Lester Fey, AIA.

ON THE MOVE: The Missoula, Mont., architectural firm of Fox-Ballas-Barrow has moved to 614 Savings Center Building, 110 E. Broadway.

NEW ASSOCIATES: The architectural firm of Wurster, Bernardi & Emmons of San Francisco has announced three new associates: George R. Kennaday, Geoffrey W. Fairfax and Don E. Stover, AIA.

NEW OFFICE: Frank Kendall has opened an architectural office in the Washington National Building, 1132 S.W. 13th Ave., Portland. Kendall had been with Freeman, Hayslip, Tuft & Hewlett, architects, for 11 years, and was their chief draftsman the past eight years.

ON BOARD: Walter Gordon, AIA, of Portland has been appointed to succeed Walter E. Church, AIA, of Portland on the Oregon State Board of Architect Examiners.

Ralph E. Panhorst, AIA, has been appointed to the new Portland housing code board of appeal. Among alternate members are two other architects: Paul H. Wallwork and Robert J. Koch, AIA.

ON TOUR: San Francisco architect John S. Bolles is in the Far East as the city's official representative on a Chamber of Commerce business tour of Japan, Hong Kong and the Philippines.

APPOINTED: James D. Mount, AIA, has been named head of the design and production departments in the office of Kegley, Westphall & Arbogast, Los Angeles architects. He was graduated from the University of Southern California in 1950.

New director of research and planning for L. W. Davidson & Associates, Los Angeles architects-industrial engineers, is George T. Hayman.

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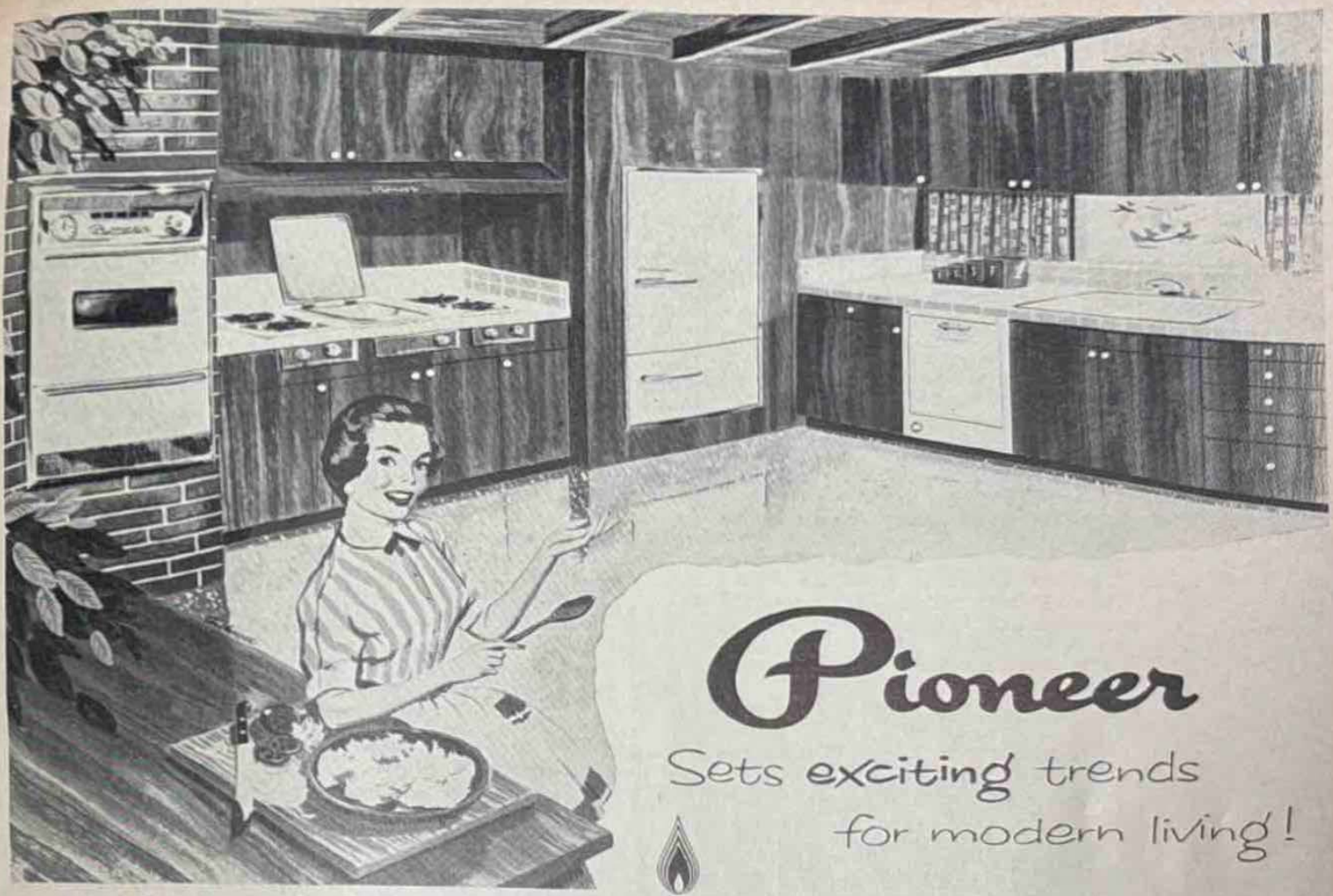


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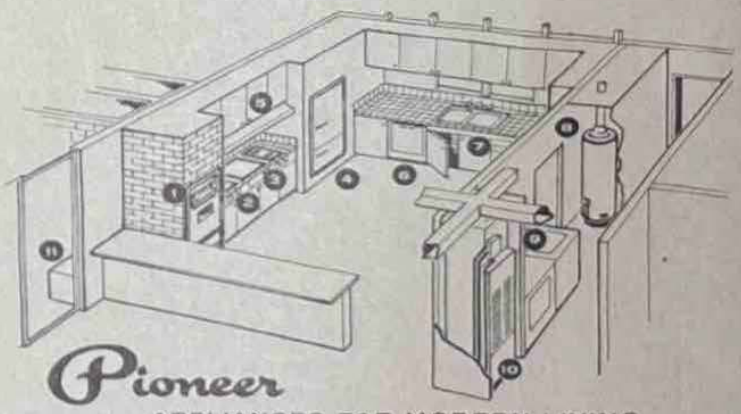
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PA&B Suppliers

• **T Steel Corp.**, manufacturer of long-span steel roof decking, has appointed Warren Burkland as regional manager of its new San Francisco office. He was formerly associated with the Seattle architectural firm of Grant, Copeland & Chervenak.

• **Allmetal Screw Products Co., Inc.**, of Los Angeles has announced its second annual stainless steel awards, topped by a $1,000 prize for a case history that describes the most effective use of stainless steel fastners in product manufacturing. For details write the company at 2978 Wilshire Blvd., Los Angeles 5, Calif.

• **Worley & Co.** of Pico, Calif., recently acquired by Ekco Products Co., has a new president, Robert C. Sabini. A native of California he will leave Chicago where he has been assistant to Ekco president B. A. Ragir.

• **Carter-Johnson, Inc.**, appliance distributor in Seattle, will move to San Diego where it will handle the full line of RCA Whirlpool home appliances and Estate gas ranges. The firm will occupy the headquarters of Jerry Achtenhagen & Sons, Inc., whose business it has acquired.

• **American Seating Co.** has appointed George M. Stanfield as western division manager with offices at 1010 S.W. 14th St., Portland. He will coordinate distributor activities in all states west of the Rockies, except California, where the company maintains two branch offices.

• **Weberwall Division** sales manager, A. Edsel Curry, is the new president of the Los Angeles Junior Chamber of Commerce.

• **Westinghouse Electric Corp.** has named John R. Ford as Seattle branch manager of its elevator division, replacing Russell J. Hurt who has been appointed assistant to the general service manager at the division's headquarters in Jersey City, N.J.

• **Monolith Portland Cement Co.** of Los Angeles has appointed Ben E. Teschner, with the firm for 29 years, as sales and service manager, succeeding the late R. B. MacNee.

• **Washington Plywood Co., Inc.**, of Everett, Wash., formerly known as Walton Plywood, has named A. H. (Dewey) Lung as manager. He most recently was in charge of Linn Plywood Co. of Albany, Ore.

• **Graystone, Inc.**, has elected a new chairman, John Hauberg Jr. of Seattle, president of Potlatch Yards, Inc., which recently purchased controlling stock in Graystone.

• **Great Lakes Carbon Corp.**, in a move involving its Palos Verdes stone department which quarries decorative building stone in southern and central California, has consolidated its dicalite and perlite divisions into a newly organized mining and mineral products division, headed by D. Loring Marlett.

• **Golco, Inc.**, has opened two warehouses in the Bay area, bringing its tile outlets in California to five. New locations are at 1559 Howard St., San Francisco, and 4022 Transport St., Palo Alto.

• **Cold Storage Door and Supplies, Inc.**, is a new company formed by Gene Hunter, with offices in the Produce Building, Los Angeles. Earlier Hunter was associated with Jamison Cold Storage Door Co. and Thermal Products Co., both of Los Angeles.

• **American Gilsonite Co.** of Salt Lake City has begun publication of a quarterly magazine for engineers, contractors and architects called "Pipe Insulation News."

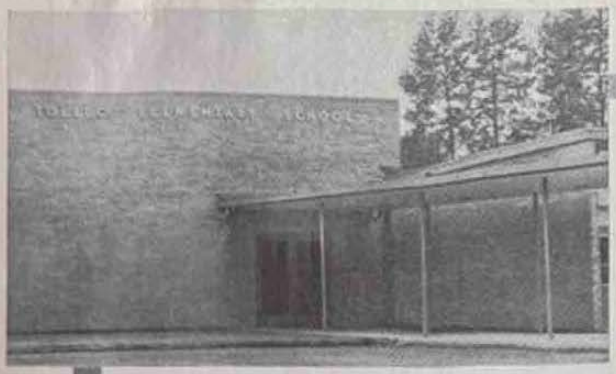
• **General Electric Appliances Co.** has opened its 130,000-sq. ft. combination regional warehouse, sales and service facility at 1649 Adrian Road, Burlingame, Calif.

• **Gunite Contractors Association** of Los Angeles has elected Don W. Shupp of Macco Corp. to head its slate of officers for 1957. James Enbody is vice president; J. A. Moore, secretary; J. A. Fredericks, treasurer; Stanley G. Zynda, recording secretary and manager.

• **General Electric Co.** apparatus sales division has a new manager of user industries sales for the Pacific Northwest, Howard H. Bullock of Los Angeles.

• **Westinghouse Electric Corp.** has opened a southern California headquarters office at 600 St. Paul Ave., Los Angeles, for its newly formed air conditioning wholesaling department, with William L. Constance as manager.

• **Lord Electric Co., Inc.**, has elected William R. McCabe, in charge of its Portland office, to the office of vice president.



architect:
STEWART & RICHARDSON

contractor:
K. T. HENDERSON

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Buildings which shape our lives (Cont'd from p. 13)

of Commonwealth Avenue and that was audacious. And in the Boston City Hall and in the old Post Office, which was removed under Cal Coolidge, Boston showed how truly dreadful public buildings could be.

In the best and the worst, the characteristic which was carried over so conspicuously from the 1850s was the element of spaciousness. This element was just as decisive in the reading habits of the time as it was in the architecture. The educated, conscientious American of that time regarded reading not only as a necessity but as a privilege and a delight. He had a room just for reading—my Grandfather had one, and as I describe it, please check off the items in the libraries you remember as a child. My grandfather, Charles Crook Suydam, was lieutenant colonel of the Second New Jersey Cavalry in the Civil War, and he stood 6 ft. 2. His bookshelves lined the room to the height of his chin and on top of them were displayed his spurs, his saber, horse pistols and faded Brady photographs of bearded officers seated before Meade's and Burnside's tents.

Grandfather's favorite chair — and you were never fool enough to sit in it—was to the left of the library table. On the table was a Confederate shell, a dud which had narrowly missed him; pens and ink; a spread of gray blotting paper; and at his shoulder a brass, gooseneck kerosene lamp with a green shade. By that soft mellow light, Granfather Suydam could read aloud without needing a drink for 50 minutes at a sitting. There isn't a man in this room who could do that today. We're too restless. But I sometimes think that I inherited more than my long nose from Grandfather Suydam; I wonder if my love of books, my zest for the printed word, did not begin with the voice, the lamplight, the feeling of repose in that room.

You realize that the editors of my grandfather's generation had no doubt that their readers would spend leisurely evenings by the library lamp. That is why they never hesitated to publish long articles. The stories and essays in the early issues of the Atlantic are twice or three times what my readers will tolerate today. Books then had few competitors and people weren't so eager to get out of the house.

Reading habits are a nice index of American taste. People today read with a nervous expectancy and they almost never read aloud. They have no patience for those endless passages of description in which Sir Walter Scott excelled; on the other hand, they have much more tolerance than their grandparents in matters of sex and violence. In this they have been conditioned by the two world wars. They have been trained to expect dialogue which will be rapid-fire and characterization which will be revealed without moralizing. They are interested in the intricacies of the subconscious mind and bored to death by "purple passages." They read their books in snatches at intervals of seldom more than an hour or two, and they read their magazines on planes, or while commuting, or waiting for the barber. "Nervous expectancy" has taken the place of leisure and spaciousness. This change may hint something to you about the homes of tomorrow.

I visit a number of college campuses each year in my quest for young writers. Last week I was at the University of Richmond and while there I had a talk with Charles Van Doren who had just flown back from his honeymoon. This tall young man who thinks aloud more attractively than



and this is just part of the story!

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Saint Joseph School, McPherson, Kansas; Architect: Robert Marr, McPherson, Kansas; Contractor: Frank Jackson, McPherson, Kansas. Rilco Wood Roof Deck of Western Red Cedar spans the 5¼" x 17⅞" x 40' laminated beams spaced 14' o.c.



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anyone else in television was talking about his reading. Se says he reads incessantly and whenever possible to the accompaniment of music: "When you read poetry," he told me, "against the background of the Ninth, it all means so much more to you." Charles speaks for the best educated generation of music lovers this country has produced. The present undergraduates are spending as much for their library of records as they do for their library of books. Music they must have—and this is something more permanent than a fad.

The girls must have not only music but music and the ballet. They have rhythm in their blood, much more of it than our generation, or their grandmothers. More than three million of them are presently studying ballet and those who are not built for it dream of having daughters who will be. They express their aspiration by dressing like ballerinas off stage.

As you well know, there is a great deal of new building on the college campuses today. The cheeseboxes which once housed the GIs and their wives are being replaced by new dormitories and these new dormitories for the married students are of two units. Small units for the newlyweds and larger ones for those with babies. When I was an undergraduate at Harvard, you were automatically dismissed if you got married in term; now the dean simply allows you an extra room. These young couples—these married children I am tempted to call them—are very eager to raise a family. Where we budgeted ourselves to have two, they throw the budget in the scrap basket and elect to have four, the sooner the better.

And there is one thing more which you will have observed. Singly, these young men and women are, many of them, fearfully lonely. I have been told that 20% of the undergraduates at eastern colleges—one in five—are receiving or ought to receive psychiatric. The future seems much more luring to them than it ever did to us in the 1920s. I think the reason why they are marrying so early and are so intent on having a family is that the home—their almost pathetically little homes—represents the only form of personal security they can imagine. Whether their home life will prove to be secure or a shambles depends to no small degree upon the kind of house, the kind of apartment you architects provide for them.

* * *

I have been speaking of the aspirations and of certain spiritual needs which I find in young Americans. Now I should like to consider what you architects can do to nourish their aspirations. In their daily living these young couples will be pulled two ways by conflicting impulses. Their first impulse will be to stay at home in their new pastel-tinted house which they have bought or rented with such high hopes; and these are the things which will hold them at home: their children, their TV screen, their long-playing records, their books, their flowering shrub and their little garden plot. If they find their home conducive to their needs and restful, they will stay in it; if not, the social mobility, which is a driving force in all Americans, will pull them out of their homes for longer and longer periods every year. It may pull them apart.

Let me tell you what I think of these newlywed homes which have been on the assembly line ever since the end of World War II. I find an initial fallacy in the proposition that we can go on making smaller and smaller houses for larger and larger Americans. The American boy and girl have been growing a fraction of an inch larger in each generation and you only have to compare a football player's uniform with the suits of armor in the Tower of London to realize that this is a condition of the New World which is going to continue. But the prefabricators have not taken this growth into account and if the cubic space of these homes continues to shrink, it won't be long before the newlyweds will be feeling like Alice in Wonderland who could contain hersef only by sticking one arm out of the window and a foot up the chimney.

Next, there is the picture window. People love to have a room with a view and in many of these new pastel homes there is a big picture window providing the inmates with a clear view of the public highway and its endless procession of motor cars. My wife and I spend our summers in a seaside resort north of Boston and to get to it we frequently drive through the East Boston Tunnel. When my boy Ted was 10 and having his first infatuation with automobiles, he loved everything about the East Boston Tunnel—the jam-up of cars, the gasoline stink, the fender to fender creeping, the out-of-state licenses. One day as we were battling our way through it, he remarked dreamily that he didn't see why we wanted to go away for the summer "Why," said he, "don't we just put the Boston house on its side in the tunnel and watch cars go by"? It amazes me to find how many American contractors have the same idea.

The shortage of space in the modern house has obliged the occupants to put most of their furniture out of doors. The result is that when they have a party everyone sits on the floor. They try to make an art of it with sheepskin rugs, tables 16 in. high and bookshelves you have to kneel down to. I am told that the Bauhaus has inspired this movement for the abolition of the chair and I wonder what Freudian bruise was inflicted on the members of the Bauhaus when they first came to sit. Speaking as a grandfather who is still addicted to the flyrod, I do like a chair when the evening comes—a chair with a back!

More serious is the question of privacy. Most of you are too young to remember that old adage:

> Come when you are called
> Do as you're bid,
> Shut the door after you,—
> And you'll never be chid.

That was a definition of American behavior in an age when children were quiet and houses had doors. But in these new homes there are few interior doors. As the housewife says in the popular advertisement, "I can stand at the sink and just by turning my head see into every corner of the house and what the children are up to." Yes, and by the same token, dear lady, the children without turning their heads can see into every corner of you. I think that the lack of privacy is the crying deficiency in American life. My heart goes out to the young housewife who said to me recently, "I can stand it just so long and then on Saturday mornings when Jack is home, you know what I do? I take a pillow and a book and I go into the bathroom and lock the door and lie down in the empty bathtub. It's the only spot in the house where I can really be unmolested."

The reason why Mrs. Lindbergh's book, "Gift from the Sea," touched millions of American women was because in it she was reminding them of this precious privacy which they have lost and cannot live without. "Mothers and housewives," writes Anne Morrow Lindbergh, "are the only workers who do not have regular time off. They are the great vacationless class . . . Woman's life today is tending more and more toward the state William James describes so well in the German word 'zerrissenheit'—torn-to-pieces-hood."

Men need to have a private place too, down cellar where they can putter, but in many of these modern houses there is no cellar and so they find privacy in puttering over their cars. Men find privacy in commuting and some of them in their work itself. But I repeat, the lack of privacy, the

lack of any place to get away from the pressure of world events and the family clamor is the greatest single deficiency in American living.

In an age of great insecurity we depend more than we realize upon that intangible known as community spirit. The cover of a recent issue of America Illustrated (the magazine which the USIA distributes in Russia) showed a panorama of San Francisco's Sunset District, a panorama which made me shudder. For here were row on row, block after block, of two-storied, identical concrete houses with not enough room in between to swing a cat. The uniformity and the lack of space are stifling and what was more benumbing was the lack of any green oasis. The only green spot in these square miles of concrete were the lawns and trees surrounding the public school.

Californians have told me that in the beginning the city planners on the West Coast called for a ratio of 1 to 10, one acre of parks and recreation areas for every 10 of buildings. But in San Bernadino County, that area which J. B. Priestley once described as "six suburbs in search of a city," in Los Angeles today, the subdividers are having their way. Oases which should have been parks have been plowed up and if this goes on much longer, the ratio will not be 1 in 10 but 1 in 60 or 1 in 80. It is not a pretty sight to see how the suburbs have devoured the orange and walnut groves in California.

In Seattle which has one of the most beautiful sites in the United States, one has to go 10 miles out of town to find a reasonably good specimen of Douglas fir, that superb native giant. There once were beautiful trees on the campus of the University of Washington but they have been destroyed to make room for more buildings.

Community spirit is kindled when people have room in which to devote themselves. It is kindled today in churches and in schools; it is kindled when old and young come together to watch the Little Leaguers play ball; it is kindled when the neighbors who believed in Ralph Bunche and who put together a purse of $1,000 to send him East to study, meet together in the high school of an evening to hear their local boy tell them of what is happening in the Middle East; it is kindled by the swanboats in the Boston Public Garden, by the picnics in Central Park and by art festivals; it is kindled by having a place to fish when the shad are running; it is kindled by the PTA, by community orchestras (of which we have more than 300 in the United States), by community singing in which the Negroes took such a leading part in Westchester County; it is kindled when mothers, dragging fathers with them, go to see their daughters dance in the high school auditorium. When you scant the space for such gatherings in our metropolitan centers, you mutilate the community spirit.

* * *

If the home will no longer provide privacy and fulfillment and if the comumnity subdivides its green oases until they are no more, then, and inevitably, the American families will have to compensate by getting into their cars and seeking refreshment elsewhere. We are in the process of shifting from a five-to a four-day week; it will come gradually and it will come with the increase of holidays and the extensions of weekends. You architects should have visible influence on the use which is made of this new leisure. As the Eastern Seaboard fills in from Bangor to the Florida Keys, people in the thickly settled areas will take their Sunday suppers to the picnic grounds, the fringe of woods, the stretch of flowering shrubs which borders the great thruways and which may come to be the only uncut land in the vicinity. Already the picnic grounds on Route 128, the big road which encircles Boston, are jammed with family parties every weekend.

Your aid will be required in the piecing together and preservation of the old colonial villages ike Sturbridge in Massachusetts, like Shelburne, that vivid reconstruction of old Vermont which Mrs. Watson Webb has assembled on the shore of Lake Champlain, or like the Farmers' Museum and its Crossroads Village in Cooperstown, N.Y.; you will have to fight for the preservation of historic sites which are in the path of bulldozers. (Fifty million visits were made to historic sites and buildings open to the public in 1956.) You will try to set apart in every city certain old houses, certain breathing spaces, certain outlooks on the harbor or the river to show the more impressionable teen-agers that American life does not consist merely of gasoline stations, the drive-in diner and the second-hand car park with its frantic little flags urging you in for the quick bargain.

In a state like Virginia, preservation has become a fine art. In Williamsburg where every fence rail and Kleenex carries the arms of William and Mary and in the gracious houses along the James — Westover, Stratford, Shirley and Berkeley Hundred—, it is so easy for the 20th century to imagine the grace and the

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quality of Colonial America. One is grateful for the care which has kept these shrines alive and it is fortunate for us all that they do not lie in the path of suburbia, that relentless stonecrusher.

I must say the Virginians had a more difficult time with Jamestown. The natural surroundings, if you remember, were not too impressive. They had to begin with the crumbling ivy-covered ruins of chapel, a small island from which the public was excluded and a sandy peninsula holding a large statue from which someone had mercifully removed its head. Now, what have they done? They have left the island right where it is with the padlock on it; they have left the chapel right where it is with the ivy on it; they have left the winged victory right where it is but now they have a head on it. They have dug out a couple of sod houses and a "little old fort"—and to this hallowed spot they are attracting thousands and thousands of tourists who can stand there and gaze at each other in a wild surmise. This is one of the most quietly spectacular achievements in the whole long history of sightseeing. Yet I notice that the Mayflower has been blown south and maybe that will help.

But the real fight today and the one which has challenged some of your greatest ability is the fight to revitalize and to beautify an old smoke-streaked city. Recapturing the beauty of the Golden Triangle in Pittsburgh, as the Allegheny Conference has done; restoring the usefulness and beauty of the St. Louis waterfront; recapturing the open declaration of Independence Mall in Philadelphia—these are the hard fights already half won. There will be many more of them ahead.

"Sleeping under a hedge," said the late G. K. Chesterton, "is not a new form of architecture." To that witticism I should like to add my postscript: that sleeping by a thruway is not the most desirable form of American architecture. Men have always lived by the side of a road because it was convenient to do so. But this country we loved is going to fill up at an astonishing rate in the next 25 years and I say that we can no longer permit this filling to be done haphazardly, as the local contractors and subdividers choose.

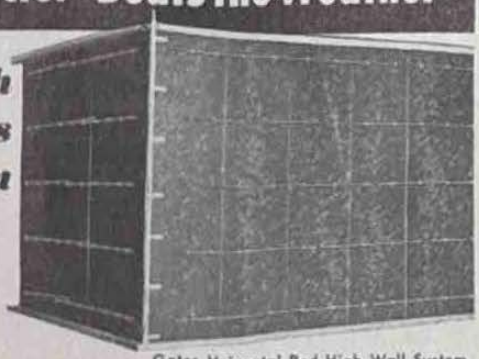
It is difficult to learn just how much rural land is being alienated for urban expansion each year but Paul B. Sears, chairman of the conservation program at Yale University, thinks that the estimates in the order of one million acres a year are not far off. One million acres a year of woodlands, meadows, abandoned farms, and marshes, taken out of the rural zone and into the city hopper! At that rate, how long will it take us to convert the Eastern Seaboard into a replica of the neon-lit, chromium-plated landscape which stretches from Los Angeles to San Diego. If that urban sprawl is to be avoided, it will be avoided because you architects join forces with city planners and conservationists—men as far-sighted as Robert Moses and Paul Sears—in devising a building philosophy for the future.

If each man plans for himself, if each contractor or each industry works solely for a single aim, the intentions may be good but the country will suffer. As an example of what non-planning can do, look at lower Bucks County, Pa. Here on the Delaware River an enormous steel plant has been erected to process the ore coming in from Venezuela. One hundred sixteen allied firms dealing in iron and steel products followed in the wake of the giant plant. Houses were at a premium and so a new town was erected, Levittown, Pa., a com-

Continued on p. 37

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BUILDING NEWS

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

OREGON

★PAINTING— Astoria, Ore.

Award to Walter J. Lauri, 539 Niagara Ave., Astoria, $2,299, by 13th Coast Guard District, 618 2nd Ave., Seattle, for painting the main industrial wood storage and oil storage buildings at U. S. Coast Guard Base, Tongue Point, Astoria; Bid No. 1586. PD 6-7. Previous report 5-29

●HOSPITAL ADDITION— Bend, Ore.

Bids will be opened 3 p.m., June 26, in administrator's office, by St. Charles Memorial Hospital, Sister M. Madeline, administrator, 700 Lava Road, Bend, for construction of a 10,000 sq. ft. 40-bed wing addition to be connected by passageway to the existing hospital, and a 2,350 sq. ft. chapel. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. $50 deposit. 5% bid bond. Reinforced concrete; exposed concrete exterior; flat built-up roof; steel, aluminum windows; metal stud, plaster partitions; asphalt tile, vinyl asbestos tile flooring; rigid insulation in roof; connected to existing heating unit. Chapel wing will be connected to 40-bed wing. PD 6-8. Previous report 5-24

●SCHOOL ADDITION— Damascus, Ore.

Bids will be opened 8 p.m., July 2, by Damascus Union District No. 26, Mrs. Lillian O. Anderson, clerk, at Damascus School on Herman Johnson Road (County Road No. 1060), Clackamas County, near Damascus, Ore., for construction of two-classroom wood frame addition to Damascus Primary School. Bids may be mailed to Route 1, Box 187, Clackamas. Plans with Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland. $15 deposit.

Concrete slab floor on grade; cedar siding; aluminum sash; built-up roof; asphalt tile floor covering; dry-wall interior; acoustical ceilings; incandescent lighting; extension of existing warm air heating system. WB 6-12

★HIGH SCHOOL— Elgin, Ore.

Award by School District No. 23, Union County, Elgin, for construction of 180-student wood frame high school building. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd, Portland. AWARD: Riverman & Son, 1230 N.E. 63rd, Portland, $310,000 (basic of $331,000 alternates). Other two low base bids were: Mason & Robinson, 2004 N.E. 137th, Portland, $336,428; Fred W. Carter, Inc., 6034 N.E. 60th, Portland. Bids opened June 6. WB 6-8. Previous report 5-23

●LIGHTING, OIL BURNER—Eugene, Ore.

Bids to be opened 3 p.m., P.S.T., June 24, by General Services Administration, Public Building Service, 909 1st Ave., Seattle, Wash., for installation of fluorescent lights, wiring, new circuit breakers, new oil burner and underground storage tank, new incinerator, overhauling vacuum pump, new service sink at the U.S. Post Office, 5th and Willamette, Eugene, Ore.; Proj. No. SEA-569. Plans with Seattle office. DM 6-7

●ADMINISTRATION BUILDING ADDITION— Eugene, Ore.

Bids to be opened 2 p.m., June 19, by Eugene School District No. 504-C, Clarence Hines, superintendent, 275 E. 7th, Eugene, for construction of a two-story addition to the administration building. Plans with Hamlin & Martin, architects, 150 W. 12th, Eugene. Addition will have 5,000 sq. ft. on each floor; masonry with steel joists; concrete block exterior walls, some brick facing; built-up roof; lath and plaster on steel studs for interior walls; acoustical plaster ceilings; new boiler for heating system. DW 6-8. Previous report 1-8

■ADMINISTRATION BUILDING ADDITION— Eugene, Ore.

Planholders announced for construction of a two-story addition to the administration building in Eugene, on which bids will be opened 2 p.m., June 19, by School District No. 504-C, Clarence Hines, superintendent, 275 E. 7th St., Eugene. Plans with Hamlin & Martin, architects, 150 W. 12th, Eugene.

Planholders: Albert Vik & Son, Box 3056; W. H. Shields Construction Co., Box 3037; J. M. Steinmuller, Jr., Box 3302. All of Eugene. DW 6-11. Previous report 6-8

LABOR TEMPLE— Eugene, Ore.

Stock sale underway by Labor Temple Association, Jens Horstrup, president and Joe Willis, secretary, 507 Willamette, Eugene, to finance construction of the new joint AFL-CIO union locals labor temple on Villard St. between Franklin Blvd. and Garden St. in Eugene. Plans by Paul Bogen, architect, 858 Pearl, Eugene. Two-story structure to be separated by 450-seat auditorium; offices on first floor, meeting halls on second floor; parking lot to accommodate 60 cars. DW 6-8

★ELEMENTARY SCHOOL ADDITIONS— Eugene, Ore.

Award to Arnt Ree & Son, 113 W. 18th, Eugene, $38,361, for one-classroom and playshed addition to Bailey Hill Elementary School near Eugene and $39,050 for three-classroom addition to Whittaker Elementary School in Eugene by Lane County School District No. 504-C, 275 7th Ave., Eugene. Plans by John H. Reynolds, architect, 364 E. Broadway, Eugene. Bids opened May 24. DW 6-11. Previous report 5-21

■COURTHOUSE— Eugene, Ore.
(Estimated cost $2,026,000)

Planholders announced for construction of a new courthouse just north of the existing structure on E. 8th Ave. in Eugene. Bids will be opened 2 p.m., July 1, by Lane County Commissioners, Courthouse, Eugene. Plans with Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene.

Planholders: W. H. Shields Construction Co., Box 3037; Gale M. Roberts, 338 W. 11th Ave.; Waldo S. Hardie & Son, Box 422; Albert Vik & Son, Box 3056; Viesko & Post, Box 69, Salem; H. G. Carl Construction Co., Box 387, Salem. Of Eugene unless noted. DW 6-11. Previous report 5-17

NURSING HOME ADDITION— Gresham, Ore.
(Estimated cost $104,000)

Construction underway by Howard Swanson Construction Co., Route 2, Gresham, on a one-story, 52-bed concrete block addition to Wildwood Nursing Home, Lillian E. Doerksen, owner-operator, 618 N.E. Hood Ave., Gresham. Plans by W. H. Yahn, architect, 208-B Fitzpatrick Bldg., Portland.

The addition will connect with the proposed 57-bed, 3-story hospital, on which construction is expected to start later this summer, and is designed for either convalescent or hospital use. Before the hospital is started a 3,000 sq. ft. reinforced concrete and cement block boiler and laundry building will be built across the street from the main hospital to serve both the nursing home and hospital. The nursing home addition will match existing building; brick and aluminum entrances; asphalt shingle roofing; aluminum sash; plaster wall finish; some acoustical tile ceilings; ceiling insulation; vinyl tile floor covering; ceramic tile floors and wainscots in lavatories and utility areas; plumbing in every ward; intercom system; complete air conditioning;

mostly incandescent lighting; oxgen piped to each room. For description of proposed hospital see PCD 1-18. WB 6-8

FIRST CHRISTIAN CHURCH—
Hermiston, Ore.

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for the First Christian Church at Hermiston. LL 6-12

ALTAMONT SCHOOL ADDITION—
Klamath Falls, Ore.

Morrison & Howard, architect, Williams Bldg., Klamath Falls, have been retained by Klamath County School Board, Carrol Howe, superintendent, Veterans Memorial Bldg., Klamath Falls, to prepare plans and specifications for a new reinforced concrete one-story multipurpose room addition to the Altamont Junior High School at 3900 S. 6th St. in Klamath Falls. Plans will be completed this year with construction planned for 1956. ZZ 6-12

PEACE LUTHERAN CHURCH—
Pendleton, Ore.

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for the Peace Lutheran Church at Pendleton. LL 6-8

▲ZOO BUILDING— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for construction of 50'x55' lightweight aggregate block barn for giraffe and okapi, Contract Group 6, Portland Zoological Gardens, Hoyt Park. Plans by Lawrence, Tucker & Wallmann, architects, Failing Bldg., Portland. LOW BIDS: Len Hufford Construction Co., 6921 N. Haight Ave., $50,544; Paul B. Emerick Co., 4540 S.E. 174th Ave., $51,000; Sergeant Construction Co., 10104 S.E. Ankeny St., $52,288. Of Portland. Bids opened June 5.
WB 6-7. Previous report 5-28

●BUILDING REPAIRS— Portland, Ore.

Bids will be opened June 25 by U. S. Air Force, 337th Fighter Group, R. T. Carrington, contracting officer, Bldg. T-111, Portland International Airport, Portland, for two building repair jobs. Bids will be opened at 9 a.m. for rehabilitation of hospital dining hall in Bldg. No. T-511; Inv. IFB-57-59. Bids will be opened at 1 p.m. for maintenance of siding on buildings T-301, T-302, T-729, T-1101, T-1109 and T-1114; Inv. No. IFB-57-58. WB 6-7

★GRADE SCHOOL— Portland, Ore.

Award to Walker & Green, Oregon City, $149,894, by Lynch School District No. 28, Multnomah County, 16301 S.E. Division, Portland, for construction of nine-classroom, reinforced concrete Lynchview Elementary School. Other low bids were: Fred W. Carter Co., Inc., 6034 N.E. 60th, Portland, $153,945; Mason & Robinson, 2004 N.E. 167th, Portland, $154,416. Bids opened June 4. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor, Portland.
WB 6-7. Previous report 5-23

▲CHURCH EXPANSION— Portland, Ore.

Bids received by Evangel Baptist Church, N.E. 29th and Everett, Portland, for a 50'x119', brick sanctuary with full basement and balcony and remodeling on the present building. Plans by Walter E. Kelley, architect, 808 S.E. 28th, Portland. LOW BIDS: Lorentz Bruun, 3636 S.E. 20th, $142,071; J. C. Milne Construction Co., 10600 S.E. Mt. Scott Blvd., $147,789; James S. Hickey, Inc., 523 S.E. Stark, $149,600. All of Portland. Bids opened June 4.
WB 6-8. Previous report 6-4

▲CLASSROOM BUILDING (Steel Frame)— Portland, Ore.

Bids received by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at Portland State College, 1620 S.W. Park Ave., Portland, for furnishing fabricating, erecting and painting all structural steel, including bas plates, for the southeast unit of State Hall, five-story, 100'x110', requiring about 400 tons of steel, at the college. Plans by Lawrence, Tucker & Wallmann, architects, 912 Failing Bldg., Portland. BIDDERS: A. Young & Son Iron Works, 2300 N.W. Nicolai St., Portland, (basic bid, fabrication) $68,995, (alternate A, erection) $14,995; Lewis Riffel, Inc., P. O. Box 4257, Portland, $74,329, $16,000; Bethlehem Pacific Coast Steel Co., P. O. Box 3827, Seattle, $84,364, $14,594; Fought & Co., Inc., P. O. Box 4297, Portland, $84,591, $14,355; Isaacson Iron Works, P. O. Box 3625, Seattle, $91,840, $18,950. No bids received for erection only. Bids received June 6.
WB 6-8. Previous report 6-1

★HAMILTON CLINIC— Portland, Ore.

Award to Hamilton Clinic, c/o Jensen & Gilham, architects, 2260 N.W. Lovejoy St., Portland, for construction of 2,000 sq. ft. wood frame one-story and basement Hamilton clinic building at S.E. 67th Ave. and Foster Blvd. AWARD: Norman Builders, 2805 S.W. 3rd Ave., $28,785. OTHER LOW BIDS: Ferguson-Boyles Co., 11614 S.E. Stark St., $28,885; Teeples & Thatcher, 8850 S.E. Otty, $29,790. Of Portland. Bids opened June 5.
WB 6-8. Previous report 6-1

▲CHURCH— Portland, Ore.

Bids received at office of Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland, for one and two-story, 4,600 sq. ft. wood frame classroom unit and fellowship hall for Vermont Hills Methodist Church, Rev. Eugene H. Walters, pastor, 5504 S.W. Iowa St. LOW BIDS: O. B. Blakely Construction Co., 10355 N.E. Saratoga St., Portland, $44,072 (basic); Herb Westerman, 246 S. 3rd St., Hillsboro, $44,275; Russ Todd, 9935 S.W. Fir Grove Lane, Portland, $45,800. Bids opened June 5.
WB 6-8. Previous report 6-4

●PAINTING WAREHOUSE— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., June 17, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., room 18, Portland, for complete redecorating of 16 offices, room and other interior areas, 22,764 sq. ft., and of exterior of Forest Service Warehouse, 2760 N.W. Yeon Ave., Portland. Specifications with supply officer. WB 6-11

●PLANT ADDITION— Portland, Ore.

Bids will be opened 10:30 a.m., June 20, by Multnomah County Commissioners, John W. West, purchasing agent, for construction of an addition ot the cannery and cold storage plant at Multnomah County Farm, including installation of equipment. Plans with roadmaster, 2115 S.E. Morrison St. $2 charge. Certified check or bid bond 10%.
WB 6-11

★CHURCH— Portland, Ore.

Award by Bethany Presbyterian Church, Bethany, Washington County, for wood frame church seating 350 and attached fellowship hall near existing church. Plans by Jensen & Gilham, architects, 2266 N.W. Lovejoy St., Portland. AWARD: Norman Builders, 2805 S.W. 3rd Ave., $54,221 (basic bid; minor alternates will be added). OTHER LOW BIDS: Teeples & Thatcher, 8850 S.E. Otty St., $57,365; R. A. Motley, 5029 S.E. Taylor St., $60,612. Of Portland. Bids opened June 7.
WB 6-12. Previous report 6-4

RESIDENTIAL PROJECT— Salem, Ore.

(Estimated cost $3,000,000)

Plans announced Emmett T. Rogers, owner, Route 1, Salem, for a residential project to be known as Madrona Hills, to be developed over a 10-year period on a 50-acre tract three miles northwest of Salem on the Wallace Road. About ten homes will be constructed by the owner this year. Plans call for a $100,000 water system fed by three wells and a reservoir, eventual installation of street lighting system, paved drives, sidewalks and two parks as recreation areas. The development is connected with Wallace Road by Deering Drive. SC 6-8

▲HEATING, PAINTING— The Dalles, Ore.

Bids received by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for new heating, interior painting and miscellaneous alterations at the U. S. Post Office at Union and 2nd streets at The Dalles: Proj. No. DC-10-632. Bids opened June 5. LOW BIDS: Lorentz Bruun Construction Co., 3636 S.E. 20th, Portland, $34,780; Midstate Construction Co., 810 Union St., The Dalles, $34,800; H. L. Grohne, 2594 N. Water St., Decatur, Ill., $35,400.
PD 6-7. Previous report 5-18

CHURCH— Tigard, Ore.

Plans announced by Tigard Friends Church, Dr. Arthur O. Roberts, pastor, Tigard, for construction of a new church, parsonage and parking area on recently purchased property across the street from the Phil Lewis Elementary School near S.W. 72nd Ave. in Tigard. SC 6-7

WASHINGTON

●GAP FILLER FACILITY—
Anacortes AF Station, Wash.

Bids will be opened 2:15 p.m., July 9, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seatle, for a gap filler facility, including construction of a communications base building, at Anacortes Air Force Station; ENG-45-108-57-91. Specifications with above office. Bid bond 20%.

Quantities: 460 c.y. excavation for grading; 50 c.y. 1½" crushed rock or crushed gravel; 23 sq. yd. portland cement concrete sidewalks; 74' culvert. SP 6-12

■ELEMENTARY SCHOOL— Belfair, Wash.

Planholders announced for construction of a one-story mill-type elementary school in the Lakewood area between Belfair and Allyn. Bids will be opened 8 p.m., June 18, by Belfair School District No. 45, Robert K. Johnson, superintendent, Belfair. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

Planholders: Noel Construction, 11014 Main, Bellevue; Sanford Wright, 302 Clark Bldg., Everett; Selmer Paulson, 1347 Trenton; Anderson Construction, 115 S. 9th, Tacoma; United Construction, 3627 Findlay, Seattle; Commercial Builders, 114 Shore Drive; Hal Burton, 2811 24th St.; Cascade-Olympia, Ruote 2, Box 131, Shelton.
HH 6-7. Previous report 5-29

▲EXTERIOR PAINTING—Bremerton, Wash.

A low bid of $4,593 was submitted by Frank W. Morris, Silverdale, when bids were opened June 4 by Public Works Department, Bldg. 78, U. S. Naval Base, Bremerton, for painting exterior metal, stucco and wood surfaces of five buildings at the Bremerton Shipyards. Of the four bids submitted, the highest was $10,490.
DM 6-7. Previous report 5-24

●BUILDING ADDITION—
Bremerton, Wash.

Bids will be opened 1 p.m., June 24, at the Public Works Office, Bldg. No. 22, U.S. Naval Ammunition Depot Bangor, Bremerton, for construction of a concrete block addition to Bldg. No. 70, Indian Island Annex; Spec. No. 12171/57. Specifications with above office. Work includes providing a concrete block building with concrete foundation and floor, wood partitions, wood frame roof, with split sheet roofing, and construction of a concrete ramp. SP 6-11

▲OIL BURNER, DRAFT INDUCERS—
Bremerton, Wash.

Bids received by Bremerton School District No. 100-C, Harold D. Pascal, superintendent, School Administration Office, 16th and Chester avenues, Bremerton, for installation of oil burner and fuel tank in the Central School at 5th and Warren in Bremerton, and for installation of two burners of wing-draft inducers on the two burners at Manette Elementary School in Bremerton. Bids opened June 6. LOW BIDS: Standard Plumbing & Heating, E. 10th and Shore Drive, Bremerton, $795 (burner), $108 (wing draft); Lent's, Inc., 279 4th, Bremerton, $989, $1,674; Bremerton Oil, 515 7th, Bremerton, $1,165, $1,448. SP 6-12. Previous report 5-31

▲BUILDING CONVERSION— **Bremerton, Wash.**

Bids received in the Public Works Office, Bldg. No. 22, U.S. Naval Ammunition Depot, Bangor, Bremerton, for conversion of Bldg. No. 10 for Ordnance Administration Building, NAD Bangor, Bremerton; Spec. No. 12170/57. Bids opened June 6. LOW BIDS: Selmer C. Paulson, 1347 Trenton Ave., Bremerton, $18,096; Commercial Buildings, 114 Shore Drive, Bremerton, $18,352; Winterburn Construction Co., Box 202, Port Townsend, $18,-258. SP 6-12. Previous report 5-21

●ARMORY PAINTING—Bremerton, Wash.

Bids to be opened 2 p.m., June 20, by J. Holz, acting state supervisor of purchasing, Box 1164, Olympia, for exterior painting of National Guard Armory, Linden and Union streets, Bremerton. Plans with above office. DC 6-12

●SCHOOL— **Burlington, Wash.**

Bids to be opened 8 p.m., June 27 by Burlington-Edison School District No. 100, in office at Burlington-Edison High School in Burlington for construction of the Lucille Umbarger Elementary School, Burlington. Plans with Galen W. Bentley, architect, 1130 State, Bellingham. $35 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical, electrical. DC 6-8

●ARMORY ADDITION— **Camas, Wash.**

Bids to be opened 2 p.m., July 2, by J. Holz, acting supervisor of purchasing for state, Box 1164, Olympia for an addition to the National Guard Armory, Camas. Plans with above office. DC 6-8

●BUILDINGS, UTILITIES— **Camp Hanford, Wash.**

Bid opening established as 2 p.m., June 19, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of six buildings, alterations to a building, fire alarm systems, steam services and appurtenant utilities for tactical facilities at Camp Hanford; ENG-45-164-57-48. SP 6-11. Previous report 5-29

■SCHOOL ADDITION— **Centralia, Wash.**

Planholders announced for construction of an addition to Ford's Prairie Elementary School. Bids will be opened 8 p.m., June 21, by Centralia School District No. 401, Centralia. Plans with William Arild Johnson & Associates, 3506 Broadway Ave., Everett. $20 deposit. Certified check, cashier's check or bid bond 5%.

Planholders: Centralia Plumbing Co., 316 S. Tower; War-Mur Electric, 312 S. Iron; E & L Electric, 320 N. Tower; James Electric, 1504 Market, Chehalis; Cascade Heating and Plumbing, 402 W. 5th, Olympia; Cascade-Olympia, Route 2, Box 131, Shelton; Lent's Electric, Plumbing and Heating, 279 4th St., Bremerton; Noel Construction, 11014 Main, Bellevue; Lee & Wood frame; concrete slab; glued laminated beams; wood siding; wood sash; plasterboard partitions; asphalt tile, ceramic tile; flooring; acoustical ceilings; wood cabinets; hollow metal exterior, solid core interior doors; batt insulation in exterior walls; blackboards; forced steam heat, oil-fired. HH 6-7. Previous report 5-31

LUTHERAN CHURCH— **Clarkston, Wash.**

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for Our Savior's Lutheran Church at Clarkston. LL 6-7

ZION LUTHERAN CHURCH— **Davenport, Wash.**

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for the Zion Lutheran Church at Davenport. LL 6-8

●BUILDING PAINTING— **Ephrata, Wash.**

Bids to be opened 10 a.m., P.S.T., June 27, by Bureau of Reclamation, Division and C St. N.W., Ephrata, for painting with semi-gloss enamel fire doors, interior wood surfaces and 180' of steel pipe handrail on the headquarters building in Ephrata; Spec. No. 117C-449. Plans with above office. Bid bond 10%. DM 6-7

●RESIDENCES, UTILITIES— **Ephrata, Wash.**

Bid opening extended from June 11 to 10 a.m., June 18, by Bureau of Reclamation, Box 368, Ephrata, for construction of operation and maintenance housing, Low Gap Ditchrider residences in Block 85, about 25 mi. northwest of Othello, Grant County, Wash.; Spec. No. 117C-442. SP 6-12. Previous report 5-11

FIRST BAPTIST CHURCH— **Everett, Wash.**

Project postponed indefinitely by First Baptist Church, Carlton B. Goodwin, pastor, Everett. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle. Funds in amount of $251,000 had been raised this spring toward the building fund for a new church. PD 6-8. Previous report 4-25

●ELECTRICAL OUTLETS— **Everett, Wash.**

Bids will be opened 10 a.m., June 24, by Everett Housing Authority, 14th and Poplar, Everett, for furnishing and installing 250 electrical outlets for Project Wash-6-1, Bakers Heights. Plans with above office. HH 6-11

●MEDICAL CLINIC— **Everett, Wash.**

Bids will be opened 4:30 p.m., June 25, in the office of the architects, Paul Hayden Kirk, 615 Lakeview Blvd., Seattle, by Pero Building Co., Inc., c/o architect, for construction of a two-story 6,736 sq. ft. medical clinic at 3125 Colby Ave., Everett.

Planholders: Don McDonald, 120 Fairview Ave. N., Seattle; Dale M. Madden, 3010 E. 163rd, Seattle; Paul Odegaard Construction

Buildings which shape our lives (Cont'd from p. 34)

munity of 16,000 houses for approximately 70,000 persons. The questions of schools sewerage, plumbing and social services were of incidental concern to Mr. Levitt; they were foreign to the steel company and so there was a minimum of coordination between the local authorities and the newcomers as this huge slice of prefabricated America went up.

There were even some hit or miss calculations on the part of the steelmasters. Not until the plant was erected did they discover that they had placed it at the exact spot on the Delaware where the fresh water from upstream meets the salt water from the estuary. Here the silt is deposited to such an extent that there was not sufficient depth to float the incoming freighters. So an $8 million pier was erected in Philadephia where the ore could be transshipped to scows which would then be towed upstream. If the engineers are susceptible to an error in judgment as fundamental as this, think of the errors in human engineering, in human living which could be perpetuated as we fill in the future gridirons of industry!

* * *

On October 23, 1943, Sir Winston Churchill was speaking to the members of the House of Commons who because of the blitz were meeting in secret. He said, "On the night of 10th May, 1941, with one of the last bombs of the last serious raid, our House of Commons was destroyed by the violence of the enemy, and we have now to consider whether we should build it up again and how and when. We shape our buildings and afterwards our buildings shape us." In those simple magnificent words, "We shape our buildings and afterwards our buildings shape us," Sir Winston revealed the nobility of architecture.

When you stand in the gloaming of Westminster Hall, that great cool, high-vaulted room, you may remember that here Richard II was dethroned and Charles I condemned, here were the trials of Sir Thomas More, of Essex and Warren Hastings, here the indecision and anguish of Parliament, and remembering, you feel the heartbeat of the English spirit. So the Cathedral of Chartres gives you to see the French genius and with your first view of the Acropolis, you begin to understand the Greeks.

And where does the "genius loci" reside in America? What are the buildings that have shaped American character so indelibly that when we visit them today, or stand in their shade, we too feel the invisible pressure of history? We find this deity in the New England village green with its church and white spire, its white orderly houses, its elms and quiet common; we find it in Mount Vernon with its commanding view high above the water, the slopes, and the fields which Washington loved; we find it in Monticello where the enterprise and the vision of the man who wrote the Declaration of Independence still lives; we find it in the Lincoln Memorial, the most heart-stirring, evocative building in the Capital.

But what of the buildings of tomorrow, the buildings which you will shape and which in time to come will shape our grandchildren and great-grandchildren? What will they be? On the campus, in the new high schools which are more and more tending to be community centers, in the factories which have become so colorful with your use of new materials, in laboratories like the General Motors Technical Center, in the recreation areas, and most needful of all, in the network of new communities which cannot live without a heart—there you will find your greatest challenge to be American.

Co., Box 735; Peter Spadafore, 607 Maulsby Lane; George Newland, 3302 Hill; Sanford Wright, Clark Bldg.; Darrow & Shaffer; Roy Rudd, 834 Grand; Don Walser, 1101 Casino Road. All of Everett unless otherwise noted.

Wood frame; flat built-up roof; 3" t&g decking, joist with sheathing; metal operating sash, stopped in Troppa glass; exterior sheathing with stucco, Italian tile, honeycomb plastic; plasterboard partitions, some ¼" plywood paneling; vinyl asbestos flooring; acoustical ceilings; some batt insulation for sound proofing; seven individual gas furnaces. Project includes five doctor's units, a laboratory and a pharmacy, and a 7,000 sq. ft. asphaltic concrete parking area.
PD 6-12

▲BUILDING REHABILITATION—
Fort Lawton, Wash.

Bids received by Department of the Army, Contracting Office, Fort Lawton, for rehabilitation of building Nos. 48,320 and 320A, at Fort Lawton; AVI-45-012-57-86. Bids opened June 10. LOW BIDS: C & R Builders, Inc., 1619 8th Ave. N., Seattle, $21,295; Jack Fast General Contractor, 22 Etruria, Seattle, $22,217; Dale M. Madden, 3010 E. 163rd, Seattle, $23,659.
PD 6-11. Previous report 6-1

▲MESS HALL EQUIPMENT—
Fort Lewis, Wash.

Bids received June 6 by purchasing and contracting office, Fort Lewis, for installation of messhall equipment at Northeast Fort Lewis; Inv. No. AVI-45-016-57-193. LOW BIDS: Jardeen Electric, 1240 S. Sprague, Tacoma, $32,856; Puget Sound Builders, 3507 S. 54th, Tacoma, $33,424.
PD 6-7. Previous report 5-11

▲AUTOPSY ROOM, MORGUE IMPROVEMENT— Fort Lewis, Wash.

Bids received by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for modification and improvement of autopsy room and morgue in Bldg. No. 14075, Madigan Army Hospital, Fort Lewis; AVE-45-016-57-199. Bids opened June 7.

LOW BIDS: Puget Sound Builders, 3507 S. 54th, Tacoma, $5,200; Doug Pravitz Contractors, Inc., 2301 Lincoln, Tacoma, $5,990; Jardeen Brothers Building Contractors, 1240 S. Sprague, Tacoma, $6,348.
JD 6-8. Previous report 5-22

▲HEATING SYSTEM CONVERSION—
Fort Lewis, Wash.

Bids received by Department of the Army, Fort Lewis, for conversion of coal, hand-fired and stoker-fired heating systems to oil fired at Fort Lewis; AVI-45-016-57-185. Bids opened June 10. BIDDERS: Pease & Sons, 10719 Waller Road, Tacoma, $37,092; Weber Plumbing & Heating, 110 N. Tacoma, $45,122; Stoker Engineering Co., 4320 S. Tacoma Way, Tacoma, $50,709. SP 6-12. Previous report 6-4

SCHOOL CONSTRUCTION— Lacey, Wash.

Plans underway by William Arild Johnson & Associates, architects, 3506 Broadway, Everett, for the 39,000 sq. ft. frame Hawkes Prairie Elementary School in Lacey, for North Thurston School District No. 3 of Lacey. Some brick and radiant heating are included with the estimated cost being $450,000. Plans are also underway by the architects for a multipurpose room and other additions to the South Bay Elementary School for an estimated $55,000. Plans have been completed and bids will be called soon by the district for construction of a five-classroom addition to Mountain View Elementary School, estimated at $55,000. SP 6-8

SCHOOL CONSTRUCTION—
Longview, Wash.
(Estimated cost $4,412,000)

Five-year construction program including eight new buildings has been approved by voters of Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview. Five of the structures are for expansion of the lower Columbia junior college campus. Also planned are a new elementary school on Columbia Heights and another junior high school. A bond election held now would qualify the district for $949,000 in state funds, leaving $3,436,100 to be paid by the district. SC 6-8

HEADQUARTERS BUILDINGS—
Montesano, Wash.
(Estimated cost $60,000)

A four-acre site across the highway from the Wynooche Airport west of Montesano has been purchased by Washington State Department of Natural Resources for construction of a new district headquarters, which would eventually include office, garage and shop, crew quarters and cookhouse, and a gasoline and oil storage shed. Lack of funds makes it unlikely that construction will start this year, according to L. T. Webster, chief state forester. SC 6-8

ELEMENTARY SCHOOL—Montesano, Wash.
(Estimated cost $300,000)

Recommendations with relation to the proposed elementary school at Montesano have been made by Vern Leidle, consultant on school building facilities for Montesano School District No. 124, Willis Rambo, superintendent, 124 Spruce East, Montesano. The recommendations include (1) a new elementary school to house the first six grades located on a separate 10-acre site, (2) consideration for establishment of a junior-senior high school program in the existing building after remodeling, and (3) development of the playground area between Sylvia and Church streets for junior and senior high school purposes. The school board has been considering locating the new elementary school on Wheeler Field but a definite decision has not been made.
SC 6-8. Previous report 3-6

●WOOD CABINETS—
New Dungeness Light Station, Wash.

Bids to be opened 2 p. m., P.S.T., June 19, by 13th Coast Guard District, Room 922, 618 2nd Ave., Seattle, for construction of birch kitchen cabinets and bathroom cabinets for duplex quarters at New Dungeness Light Station; Inv. No. FS-1620. Plans with above office.
DM 6-11

★ADDITIONAL LIGHTING—
Olympia, Wash.

Award to Lorentz Bruun Construction Co., 3636 S.E. 20th, Portland, $20,308, by General Services Administration, Public Buildings Service, 126 Federal Office Bldg., 909 1st Ave., Seattle, for additional lighting at the U.S. Post Office, Capitol Way at Valencia, in Olympia; Proj. No. CR-10-653.
PD 6-8. Previous report 5-25

SCHOOL CONSTRUCTION—
Opportunity, Wash.

Voters approved a $140,000 levy for construction and site acquistion for elementary schools at the May 28 election held by Central Valley School District No. 356, Gilbert Mills, superintendent, N. 607 Pines Road, Opportunity. Victor Louis Wulff, architect, W. 1526 Riverside, Spokane, has been retained to prepare plans. Bids will be called during the summer of 1958. Total project is estimated at $686,000.
PD 6-8. Previous report 4-18

METHODIST CHURCH— Oroville, Wash.

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for the First Methodist Church in Oroville.
LL 6-8

●HANGAR DOOR REPAIRS—
Paine AFB, Wash.

Bids to be opened 2 p.m., P.S.T., June 19 by purchasing and contracting office at Paine AFB for replacing metal tracks, installing wide flange beams, manhole and strengthening sides and bottoms of west hangar doors in Bldg. 207, Paine AFB. Plans with above office.
HH 6-7

▲OQ BUILDING MODIFICATION—
Paine AFB, Wash.

Bids received by purchasing and contracting office at Paine AFB for modification of six rooms in the OQ Building at Paine AFB; Inv. No. 45-602-57-58. LOW BIDS: Gill Construction Co., 5117 25th N.E., Seattle, $17,788; Solie Builders, 7514 Juniper Drive, Route 4, Everett, $18,957; D & A Construction Co., 1113 N. 100th, Seattle, $19,900. Bids opened June 6.
HH 6-8. Previous report 5-11

CHURCH— Pasco, Wash.

Working drawings underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for construction of a new church at Marie and Mead streets in Pasco, for Pasco First Christian Church, Pasco.
LL 6-7. Previous report 8-8, '56

EPISCOPAL CHURCH— Pasco, Wash.

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for the Episcopal Church of Our Savior at Pasco.
LL 6-7

●POST OFFICE— Pasco, Wash.

Bids will be opened 3 p.m., June 25, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for alterations to the U.S. Post Office building and driveway at 3rd Ave. and Lewis St. in Pasco; Proj. No. SEA-553. Plans with above office.
SP 6-11. Previous report 5-1

●CATHOLIC CHURCH, CLASSROOMS—
Port Orchard, Wash.

Bids will be opened in a private bid opening, 3 p.m., June 21, in the chancery, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry, Seattle, for construction of the two-story Saint Gabriel Catholic church with administrative and school wing, on Tacoma-Port Orchard Highway, 450 yd. south of its junction with Harber-Port Orchard Highway. Plans with Roger Gotteland, A.I.A. & Associates, 2nd and Cherry Bldg., Seattle. $75 deposit. Select list of bidders.

Plans include: 15,800 sq. ft.; structural steel frame; brick cavity wall; t&g roof decking, pitched roof (church), flat built-up roof (wing); steel windows; plaster partitions; concrete floors; 1" rigid insulation, most of roof, bat insulation on steel siding on wing; oil-fired hot water heat. Contract will be bid with several alternates: Alt. 1A — Lift station and pumps, connecting buildings, sanitary facilities with nearby sewage system. Alt. 1B — Installation of septic tank and disposal field. Alt. 2 — Acoustical tile on church ceiling.
PD 6-12. Previous report 5-22

NUCLEAR REACTOR BUILDING—
Pullman, Wash.
(Estimated cost $300,000)

July 11 has been tentatively selected as bid opening date for Washington State College's Nuclear Reactor Building. Plans for the three-story, 7,500 sq. ft. structure should be complete dby Philip Keene, college architect, 305 Services Bld., Campus, Pullman, by mid-June. Separate bids will be received on general, mechanical and electrical work. The building which will be located near the East Fairway on the campus, will have a hot water heating system power by natural gas.
MH 6-8. Previous report 6-4

PLANT SCIENCES BUILDING—
Pullman, Wash.

Preliminary plans underway by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle, for a reinforced concrete, Class A, Plant Sciences building on the campus of Washington State College, Pullman. $1,900,000 is to become available out of the new state budget which goes into effect July 1. An additional $1,451,000 may be forthcoming if voters of Washington approved Referendum Senate Bill 482 in the 1958 election.
MH 6-11

VETERINARY CLINIC ADDITION—
Pullman, Wash.
(Estimated cost $1,317,000)

Preliminary drawings by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane, have been approved by Washington State College for a two-story reinforced concrete veterinary clinic addition to McCoy Hall on the college campus at Pullman. Associate architects are Decker, Christianson & Kitchen, 1411 4th Ave., Seattle. The struc-

ture should be out for bids by the end of the year. MH 6-11

POULTRY PLANT STRUCTURES— Pullman, Wash.
(Estimated cost $311,000)
Preliminary plans underway by Funk, Murray & Johnson, architects, W. 524 4th, Spokane, for Poultry Plant structures on the campus at Washington State College, Pullman. MH 6-11

DAIRY PLANT— Pullman, Wash.
(Estimated cost $288,000)
Preliminary plans underway by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane, for a wood frame, Dairy Plant on the campus of Washington State College at Pullman. MH 6-11

INCINERATOR— Pullman, Wash.
(Estimated cost $150,000)
Preliminary plans underway by Kenneth Brooks, architects, W. 705 5th, Spokane, for an incinerator for Washington State College, Pullman. MH 6-11

SEEDHOUSE ADDITION— Pullman, Wash.
(Estimated cost $35,000)
Preliminary plans underway by Lawrence Evanoff, 515 American Legion Bldg., Spokane, for a 50'x60' two-story, concrete addition to the seedhouse at the campus of Washington State College, Pullman. MH 6-11

●PILASTER REINFORCING— Puyallup, Wash.
Bids to be opened 8 p.m., June 26, by Frank R. Ansley, director, Firwood School District No. 99, in administrative office, Route 6, Box 768, Puyallup, for gymnasiums pilaster reinforcing at the Firwood Public School. Plans with above office. $10 deposit. Certified check, cashier's check or bid bond 5%. DC 6-12

●AUTO-FREIGHT BUILDING— Renton, Wash.
Bids will be opened 2 p.m., June 18, in the Renton office, 213 Wells St., Renton, of Johnston & Campanella, architects, by Renton-Issaquah Auto Freight, Inc., 305 Airport Way, Renton, for construction of a 60'x100' auto freight building at 7th Ave. and Morris St., Renton. Plans with architect's Renton office. $25 deposit.
Concrete slab on pile; tilt-up concrete walls; steel roof trusses, steel decking; built-up roof; steel sash; metal sliding doors; gas-fired unit heaters. PD 6-8

CITY HALL— Richland, Wash.
Bids will be called in the latter part of June for opening sometime in August by Atomic Energy Commission, Bldg. 705, Richland, for cnostruction of a new city hall to be located on a site across the street from the main fire station at Richland. Plans by Young, Richardson & Carleton, architects, Central Bldg., Seattle.
SP 6-7. Previous report 1-11

★EQUIPMENT INSTALLATION, BUILDING ALTERATION— Richland, Wash.
Award to Frank H. Lohse, Pasco, by Atomic Energy Commission on a $79,508 contract for installing miscellaneous equipment in an existing building and altering another building behind the Hanford barricade and on a $6,000 contract for ventilation improvements to two buildings behind the Hanford barricade.
DM 6-8. Previous report 5-8

▲INTERIOR PAINTING— Richland, Wash.
A low bid of $73,864 was submitted by Payton Construction Co., Boise, Idaho, on June 10, to Atomic Energy Commission, Box 550, Richland, for phases 5, 6, 7 of a program for interior painting of 253 Richland housing units. Other low bids were: Harold Brinkley Painting Co., Kennewick, $76,242; Anderson Bros., Inc., Denver, Colo., $77,777. Engineer's estimate $99,430.
DM 6-12. Previous report 5-22

●BUILDING ADDITION— Richland, Wash.
Bids to be opened June 27 by Atomic Energy Commission, Hanford Operations Office, Box 550, Richland, for construction of two one-story, steel framed building inductions for clothing change and storage facilities behind the Hanford barricade. Plans with above office. Concrete foundation, floors; metal siding panels; roof decking and partitions; built-up roofing; installation of one 5,000 CFM evaporative cooler, two 5 kw and one 2 kw electric unit heaters, fan and gravity type roof ventilator, cooler supply connection ductwork, miscellaneous electrical work. DM 6-12

●ROOF COATING— Seattle, Wash.
Bid opening extended from June 11 to 1:30 p.m., P.S.T., June 24, by Department of Army, Procurement Division, 1519 S. Alaskan Way, Seattle, for roof coating at Seattle Army Terminal, 4500 E. Marginal Way, Seattle; Inv. No. TC-45-045-57-113B.
DM 6-7. Previous report 6-6

★SUPPLEMENTARY CLASSROOMS— Seattle, Wash.
Award to General Industries, Inc., 106 Main, Edmonds, $30,880 (basic less three alternates), by Shoreline School District No. 412, 20th N.E. and E. 158th, Seattle, for construction of supplementary classrooms involving six buildings situated on the Shoreline Senior High School site located at E. 195th and 1st Ave. N.E. Plans by Peterson & Adams, architects, Smith Tower, Seattle. Construction underway immediately. PD 6-8. Previous report 5-31

★REROOFING BUILDING— Seattle, Wash.
Award to A B C Roofing and Siding, Inc., 41 Hinds, Seattle, $5,889, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for reroofing the main industrial building at the U.S. Coast Guard base, 27th W. and Commodore Way, Seattle; Bid No. FS-1581.
PD 6-8. Previous report 5-25

●ARBOR HEIGHTS SCHOOL ADDITION ALTERATIONS— Seattle, Wash.
Bids will be opened 2 p.m., June 26, by Seattle School District No. 1, King County, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for construction of a 19,000 sq. ft. two-story 12-classroom addition to Arbor Heights elementary school, 38th Ave. S.W., and S.W. 104th, Seattle. Plans with George W. Stoddard-Huggard & Associates, architects and engineers, 1120 Harvard Ave., Seattle. $15 deposit. Reinforced concrete; concrete slab floors; 4-ply flat built-up roof; brick veneer. Four portable classrooms are to be moved, existing boiler temporarily sheltered, and new boiler installed.
PD 6-8. Previous report 4-3

●FIRE PROTECTION SYSTEM— Seattle, Wash.
Bids will be opened 2 p.m., June 24, by R. J. Loudon, Facilities Department, Boeing Airplane Co., 7755 E. Marginal Way, Seattle, for furnishing and installation of a fire protection system for buildings 3-310 and 3-311, Boeing Field. Specifications with above office and with Pacific Builder and Engineer, 2418 3rd Ave., Seattle. PD 6-11

▲ROOFING— Seattle, Wash.
Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for roofing project at King County Airport, Boeing Field, Seattle. Bids opened June 10. LOW BID: Independent Sheet Metal Corp., 1723 Westlake Ave. N., Seattle, $6,907. ONLY OTHER BIDS: Deming Roofing and Insulation Co., 1319 W. Nickerson, Seattle, $7,107; A B C Roofing and Siding, Inc., 41 Hinds, Seattle, $10,481. PD 6-12. Previous report 5-25

●ADMINISTRATION BUILDING— Seattle, Wash.
Bids will be opened 2 p.m., June 26, by South Central School District No. 406, Frank Horsfall, clerk, 14208 42nd Ave. S., Seattle, in room 71, Foster Junior-Senior High School, 4242 S. 144th St., for construction of a 2,000 sq. ft. administration office building, on the S.E. corner of the Showalter School site, 4628 S. 144th St., Seattle. Plans with Ralph H. Burhard, A.I.A., 2120 S.W. 152nd St., Seattle. $15 deposit. Certified check, cashier's check.
One-story; concrete slab; lightweight block walls; frame roof; built-up roofing; cement-asbestos board, plasterboard partitions, some sen wood; vinyl asbestos tile flooring.
PD 6-12

●ELEPHANT HOUSE ADDITIONS— Seattle, Wash.
Bids will be opened 10 a.m., June 25, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for alterations to the elephant house at Woodland Park Zoo; Spec. No. 601. Specifications with Park Department, 100 Dexter Ave., Seattle. Plans involve construction of a concrete water trough and furnishing and installing a steel barricade consisting of 10" wide-flange I-beams and 3" extra strong steel pipe, and a door bolt. PD 6-12

JUNIOR HIGH SCHOOL— Selah, Wash.
(Estimated cost $675,00)
Preliminary drawings approved by State Board of Education and bids will be called early in September, by School District No.

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119, Elmo Steinke, superintendent, Sunrise Park, Selah, for a new junior high school and gymnasium, a project consisting of five separate buildings, on N. 1st St. at Selah. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima. The buildings will be connected by covered outdoor corridors. IG 6-7

EMMANUEL LUTHERAN CHURCH— Spokane, Wash.

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for construction for the Emmanuel Lutheran Church, S. 411 Pine St., Spokane. LL 6-8

●DAIRY PLANT— Spokane, Wash.

Bid opening extended from June 7 to 2 p. m., June 21, at the Inland Power & Light Bldg., E. 320 2nd Ave., Spokane, for construction of a dairy processing plant for the Inland Empire Dairy Association on Francis Ave. east of Division St. in Spokane. Plans with Funk, Murray & Johnson, architects, W. 524 4th, Spokane. $75 deposit on general, $50 for mechanical and electrical.
LL 6-12. Previous report 6-6

●PAINTING— Tacoma, Wash.

Bids to be opened 3 p. m., June 19, by Port of Tacoma, Transit Shed No. 1, Pier 2, Port of Tacoma Terminal, Tacoma, for cleaning and painting the following structures located on the port's Pier 2 and leased to Kelley, Farquhar & Co.: exterior walls of four buildings, first floor interior walls and ceiling of warehouse, second floor interior walls of general storage area, entire pea processing area walls and some ceilings. Plans with port office. DM 6-11

★TRAINING CENTER, SHOP BUILDING— Tacoma, Wash.

Award to Rome Co., 3721 S. Tacoma Way, Tacoma, $294,517, by Corps of Engineers, 4735 E. Marginal Way, Seattle, for construction of a 15,500 sq. ft. two-story, reinforced concrete Army Reserve training center and a 3,750 sq. ft. reinforced concrete maintenance shop; ENG-45-108-57-135.
DM 6-11. Previous report 5-25

●PARK IMPROVEMENTS— Tacoma, Wash.

Bids will be opened 2 p. m., June 19, by Metropolitan Park District, W. O. Glundberg, secretary, 212 City Hall Annex, Tacoma, for improvements to Dash Point Metropolitan Park Recreation Area and related appurtenances. Plans and specifications with Stewart & Lamberger, architects and engineers, 608 S. Oxford St., Tacoma. Certified check, cashier's check or bid bond 5%.
SC 6-12

●TRUCK GARAGE, SERVICE STATION— Toppenish, Wash.

Bids opening extended from June 14 to 4 p. m., June 18, and proposals will be received in the office of Ed Marble, architect, Miller Bldg., Yakima, for construction of 4,500 sq. ft. concrete block truck garage and service station to be located at intersection between Highway 3A and 3B east of Toppenish. Owner is Kelly Oil Co., 1309 N. 1st, Yakima.

Revised list of planholders: V. K. Powell & Son, 101 E. 4th, Wapato; W. J. Parks & Son, 4403 Summitview, Yakima; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Stoops & Son, 215 Buena Way, Toppenish; Wallingford & Shelton, 205 S. 67th, Yakima; Jake P. Leingang, 3804 Summitview, Yakima; Gene Huylar, 103 S. Fir, Toppenish. IG 6-12. Previous report 6-6

■ADMISSIONS-SECURITY BUILDING— Walla Walla, Wash.

Planholders announced for construction of an Admission and Security building at Washington State Penitentiary, Walla Walla. Bids will be opened 3 p.m., July 9, by Lloyd K. Nelson, acting director, Department of General Administration, General Administration Bldg., Olympia. Plans with John W. Maloney, architect, 754 Centre Bldg., Seattle.

Planholders — GENERAL: Johnson-Busboom-Rauh, N. 601 Cedar, Spokane; Jensen-Rasmussen, Box 89, Sunnyside. ELECTRICAL: Power City Electric, N. 92 Howard, Spokane; Lord Electric, 1034 S.E. Water Ave., Portland; Electric Smith, 12 E. Sprague, Spokane. MECHANICAL: Grant County Plumbing and Heating, Box 156, Moses Lake; Central Plumbing and Heating, 510 S. 1st St., Yakima; Rainier Mechanical Contractors, E. 112th, Tacoma; James Smyth, N. 216 Division St., Spokane; P. S. Lord, 4507 S.E. Milwaukie Ave., Portland.
PD 6-11. Previous report 6-1

IDAHO

▲ROCKET STORAGE FACILITIES— Gowen Field, Idaho

Bids received by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of rocket storage facilities at Gowen Field near Boise, Ada County, Idaho; ENG-45-164-57-46. Bids opened June 11.
ONLY BID: Babbitt Construction Co., Box 4038, Boise, $61,434. Government estimate, $59,900. SP 6-12. Previous report 6-4

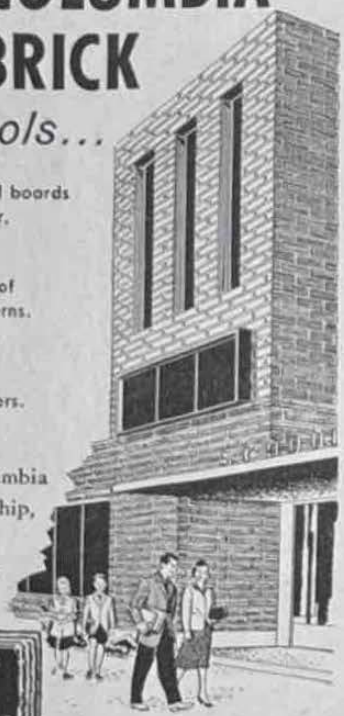
▲BUILDINGS, UTILITIES, FACILITIES— Idaho Falls, Idaho

Bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of buildings, utilities, facilities for the Flight Engine Test Facility, Aircraft Nuclear Propulsion Station, Idaho; Inv No. AT(10-1)-878. Seven bids were received on June 5. The project was divided into 11 sections on which separate bids were submitted. The total bids on the three low were as follows: Howard S. Wright Co. Inc., Box 3764, Seattle, $6,044,208; Hoffman Construction Co., 715

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S.W. Columbia, Portland, $6,116,028; James Stewart Co., Tucson, $6,190,668.
DC 6-8. Previous report 5-16

● **GRADE, HIGH SCHOOL ADDITION—** **Kellogg, Idaho**

Bids to be opened 2 p. m., M.S.T., July 18, by Joint Class A School District No. 391, Shoshone and Kootenai counties, in the superintendent's office in the old high school in Kellogg for construction of a four-classroom addition to the Pinehurst elementary and junior high school. Plans with Culler, Gale, Martell & Norrie, architects, 615 Realty Bldg., Spokane. $10 deposit on general, $5 for electrical and mechanical. General contract to cover all phases of work.

Wood deck, glued laminated beams, precast concrete columns, concrete floor on slab, brick veneer exterior wall, asphalt tile, acoustical tile, fiberglas insulation, four-ply build-up roof, wood sash, steel ventilators, extensions of existing heating system.
DC 6-12

● **AIR CONDITIONING—** **Lewiston, Idaho**

Bids to be opened 7:30 p. m., June 17, by A. M. Quane, city controller, City Hall, Lewiston for installing an air conditioning unit on the north wall in the City Council chamber at City Hall. Plans with above office. Certified check 5%. Description: self-contained type, 5 hp, single phase, 220 volt, 60 cycle with hermetic type refrigerating unit.
DC 6-12

HOUSE ADDITIONS— **Moscow, Idaho**

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for additions and alterations to the Alpha Ki Omega sorority house at the University of Idaho in Moscow.
LL 6-8

COURTHOUSE— **Moscow, Idaho**
(Estimated cost $400,000)

Plans will be complete in August by Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise, for construction of a new two-story with partial basement, 27,000 sq. ft. courthouse at Moscow, for Latah County Commissioners, Courthouse, Moscow. $50 deposit when bids are called. Mechanical and electrical engineers are Lyle Marque & Associates, Realty Bldg., Spokane. Completion time fall of 1958.

Reinforced concrete footings and foundation; poured concrete walls; concrete slab floors; concrete girders, beams, columns; flat roof; masonry partitions; concrete stairways; aluminum windows; concrete and brick (cast stone) exterior wall finish, plaster interior; plaster partitions; asphalt tile, ceramic tile and terrazzo flooring; acoustical ceilings; rigid insulation in roof; hot water heating system, natural gas fuel.
SP 6-8. Previous report 4-20

● **DORMITORY—** **Moscow, Idaho**
(Estimated cost $375,000)

Bids to be opened 2 p. m., June 28, by business manager, University of Idaho, Moscow, for construction of a 110-man dormitory (George L. Shoup Hall) on the campus. Plans with Lyle E. Marque & Associates, architects, 705 Realty Bldg., Spokane. $50 deposit.

Three-story, basement; concrete block; glass, ceramic mosaic, acoustical and glazed wall tile; built-up roof; two-pipe hot water heating system.
DC 6-12

★ **CLASSROOM-GYMNASIUM ADDITION—** **Nampa, Idaho**

Award announced by Arthur Warren, commissioner, Department of Public Works, 316 Capitol Bldg., Boise, for construction of a classroom-gymnasium addition to the Florence Ramsey training school at Nampa State School in Nampa. Bids opened June 6. AWARD: Emery S. Conner, 421 High St., Nampa, $111,094. 2ND LOW: J. H. Wise & Son, Box 267, Boise, $112,478. 3RD LOW: Luekenga Construction Co., Box 943, Nampa, $114,895.
SP 6-11. Previous report 5-23

PRESBYTERIAN CHURCH— **Sandpoint, Idaho**

Preliminary plans underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for the First Presbyterian Church at Sandpoint.
LL 6-8

MONTANA

● **ADMINISTRATION, CAFETERIA BUILDING—** **Billings, Mont.**

Bids will be opened 8 p.m., June 28, by Yellowstone County School District No. 26, Route 4, Billings, for construction of an 80'x110', one-story, masonry building containing cafeteria and administrative offices and meeting rooms near existing schools in the Lockwood area, east of Billings. Plans with Drake & Gustafson, architects, Empire Bldg., Billings. $35 deposit.

Slab on grade; glued laminated beams and columns; insulating roof deck; built-up roofing; aluminum windows; masonry and frame partitions; forced air heating system, natural gas fuel.
EE 6-11

★ **GARAGE—** **Billings, Mont.**

Award announced by Downtown Parking, Inc., Russell B. Hart, president, Billings, for construction of a five-level, reinforced concrete, 275-car capacity parking garage on the old Belknap Bldg. site, Montana Ave. and Broadway, Billings. Plans by Orr Pickering & Associates, architects, Fratt Bldg., Billings. Bids opened June 7. AWARD: Hitz Construction Co., 2111 4th Ave. N., Billings, 248,000. 2ND LOW: C. B. Lauch Co., Box 2559, Boise, Idaho, $261,317. 3RD LOW: Lowe Construction Co., 2325 9th Ave. N., Billings, $262,900.
EE 6-12. Previous report 5-29

● **GAP FILLER FACILITY—** **Brockway, Mont.**

Bids will be opened about June 26, with a definite date to be established by addendum, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for a gap filler facility, involving construction of a 1,240 sq. ft. concrete block communication building, at Brockway; ENG-45-108-57-169. Specifications with above office. Bid bond 20%.

Building will have concrete foundation and floor slab; open web steel roof joists and metal deck with insulated and built-up roof. Also included are heating and ventilating system, perimeter chain link fence, concrete walks, latrine and reinforced concrete tower foundation, tower erection, and about 250' access road.
SP 6-12

PHYSICS-PETROLEUM BUILDING— **Butte, Mont.**

J. G. Link & Co., 111 N. Montana, Butte, architects, have been selected to prepare plans for completion of a Physics-petroleum buildings at Montana School of Mines in Butte.
EE 6-8

★ **YOUTH CENTER, CHURCH ADDITION—** **Butte, Mont.**

Award announced by Gold Hill Evangelican Lutheran Church, Rev. Fred D. Dommer, pastor, 934 Placer, Butte, for construction of an L-shaped two-story youth fellowship and education addition to the church. Plans by Kestle-Godtland-Moyle, architects, 409 Silver Bow Bldg., Butte. Bids opened June 3. AWARD: Hammond-Everly Engineering Co., 27 W. Granite, Butte, $43,720. 2ND LOW: Cahill-Mooney Construciont Co., 1220 E. Front, Butte, $53,392. 3RD LOW: Haggerty-Messemer, Box 751, Bozeman, $69,988.
SP 6-11. Previous report 5-31

★ **VINYL TILE—** **Deer Lodge, Mont.**

Award to Albert J. Glore, Billings, $11,737, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol, Helena, vinyl tile work at the state prison in Deer Lodge, including lobbies, dining room and medium security building.
EE 6-11

● **LIGHTING FIXTURES—** **Dillon, Mont.**

Bids to be opened 3 p.m., P.S.T., June 24 by General Services Administration, Public Building Service, 909 1st Ave., Seattle, for installing government furnished fluorescent lighting fixtures, lobby fixtures and electrical service in the U. S. Post Office, Idaho St. at Sebree St., Dillon, Mont.; Proj. No. SEA-709. Plans with Seattle office.
DM 6-7

● **PAINTING—** **Fairfied, Mont.**

Bids will be opened 8 p.m., June 20, by School District No. 75, Teton County, Fairfield, for painting the exterior walls of all buildings on the school grounds at the Greenfield School at Fairfield. Plans with Ole Vervick, clerk, at above address.
SC 6-11

● ■ **DIAL EXCHANGE BUILDING—** **Glasgow, Mont.**

Bids will be opened 2 p.m., June 20, by Mountain States Telephone & Telegraph Co., in room 418, Roosevelt Hotel, Glasgow, for construction of a 60'x86' two-story and basement dial exchange building at Glasgow. Plans with Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena. Mechanical engineer is R. L. Prussing, 1004 Division St., Billings. Select list of bidders.

Planholders — MECHANICAL: Cummings Plumbing & Heating Co., 120 W. Benham, Glendive; Johnson Plumbing Shop, 527 1st Ave. S., Glasgow; Vertz Plumbing & Heating Co., 823 4th Ave. S., Glasgow; Pinski Bros. Plumbing & Heating, 1020 Central Ave., Great Falls; Larson & Co., 361 W. 4th South, South Lake City. ELECTRICAL: Wagenhals Electric, 525 2nd Ave. S., Glasgow Electrical Contracting Co., 509 1st Ave. South, Glasgow; Yellowstone Electric Co., 520 N. 32nd St., Billings; Bonnes Electric Co., 6. S. Park Ave., Helena.

Concrete footings and foundation; poured concrete walls; concrete floors; concrete and steel girders, beams, columns; tar and gravel flat roof; steel stud, masonry partitions; concrete stairways, ornamental iron railways; fancy brick and concrete exterior, tile interior wall finish; plaster interior partitions; asphalt tile, rubber tile flooring; plaster acoustical ceilings; baseboard hot water heating system, gas-fired.
LS 6-12

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● **WAREHOUSE ADDITION—** **Gore Field, Mont.**

Bids to be opened 2 p. m., P.S.T., June 18, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, for a one-story, 4,000 sq. ft. addition to the Air National Guard facilities, Gore Field, Great Falls, Mont.; ENG-45-164-57-49.

Planholders: Gray Co., Inc., Box 1741, Great Falls; Sletten Construction Co., Box 1188, Great Falls; Dudley Construction Co., Box 546, Great Falls; Mann Construction Co., Box 577, Redmond, Ore.; Leigland Co., Box 1862, Great Falls; H. S. Leigland & Sons, 1501 N. 35th, Seattle, Wash.; Nilson-Smith Construction Co., Box 1147, Great Falls; J. E. Beaulaurier & Sons, Box 2016, Great Falls.

DM 6-11. Previous report 5-7

CRIPPLED CHILDREN'S CLINIC— **Great Falls, Mont.**

(Estimated cost $230,000 to $250,000)

Description announced on a one-story, 12,550 sq. ft. brick and masonry crippled children's treatment center to be constructed on a 2½-acre site on Central Ave. and 44th St., Great Falls. Bids will be opened 3 p. m., June 21, by Montana Society of Crippled Children and Adults, Inc., in the office of the architects, Page & Werner, 151½ 4th N., Great Falls. Deposit of plans $35. Bid bond 5%.

Reinforced concrete footings, foundation; solid masonry walls; concrete floor on steel joist; timber and steel girders; glued laminated beams; wood partitions; metal stairway; aluminum windows; brick exterior and plaster and wood interior finish with metal trim; plaster, gypsum lath interior partition; maple, ceramic tile, vinyl asbestos floor finish; aluminum, fir and birch doors; wood cabinets; blackboards; gas fired boiler.

DM 6-7. Previous report 6-5

CHURCH— **Great Falls, Mont.**

Working drawings underway by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane, for construction of a new church in Great Falls, for Trinity Lutheran Church, 2204 4th Ave. N., Great Falls.

LL 6-7. Previous report 10-30

● **MAINTENANCE PAINTING—** **Great Falls, Mont.**

Bids will be received until 5 p.m., June 19, in the office of Victor F. Gibson, clerk of School District No. 1, 1015 1st Ave. N., Great Falls, and will be opened 7:30 p.m., on that date, in the auditorium of th S.D. Largent School, 915 1st Ave. S., Great Falls, for maintenance painting at several school buildings in the district. Plans with Davidson & Kuhr, architects, 104 4th St. N., Great Falls. Certified check or bid bond 5%.

SC 6-11

SCHOOL ADDITIONS, EXPANSION— **Kalispell, Mont.**

Two architectural firms have been retained by Elementary School District No. 5, Kalispell, to prepare plans and specifications for additions and expansion to three buildings in the district. Firms retained are Taylor, Thon, Schwartz & Kirkpatrick, 556 3rd Ave. N.E., Kalispell, for additions to Hedges and Peterson schools, and Brinkman & Lenon Architects & Engineers, Strand Bldg., Kalispell, for expansion of Central Junior High School.

SC 6-7

SALVATION ARMY BUILDING— **Kalispell, Mont.**

Building fund drive underway by The Salvation Army, Howard Hammer, chairman of the board, 5th Ave. W. and 2nd St., Kalispell, for construction of a new building in Kalispell.

SC 6-7

● **SCHOOL ADDITION—** **Lolo, Mont.**

Bids will be opened 8 p. m., June 18, by School District No. 7, School Building, Lolo, for construction of an addition to the school building at Lolo. Plans with Witwer & Price, architects, 107 E. Main St., Missoula. $15 deposit. Certified check or bid bond 5%.

SC 6-12

SCHOOL, RESIDENCE— **Miles City, Mont.**

(Estimated cost $300,000)

Architects Loners, Stroebe & Johnson, 418 N. 25th, Billings, retained by Montana State Board of Examiners, Helena, to design a dean's residence and a school building at the State Industrial School in Miles City.

EE 6-7

DIAL TELEPHONE BUILDING— **Poplar, Mont.**

Plans announced by Mountain States Telephone & Telegraph Co., 441 N. Park Ave., Helena, for construction of a new dial telephone building at Poplar.

EE 6-7

SCHOOL ADDITION—Twin Bridges, Mont.

(Estimated cost $270,000)

Architects Kestle & Moyle, Silver Bow Bldg., Butte, retained by Montana State Board of Examiners, Helena, to prepare plans for a dining hall for the State Children's Home at Twin Bridges. Previous action of the board in naming J. G. Link Co. of Butte as architects, was rescinded.

EE 6-7

● **HIGH SCHOOL ADDITION—** **Worden, Mont.**

Bids will be opened 8 p. m., June 24, by Yellowstone County School District No. 24, Superintendent's Office, Worden, for construction of a one-story concrete block 20'x40' music room addition to the high school building at Worden. Plans with Chandler C. Cohagen, architect, 211 Hedden Bldg., Billings.

Concrete slab on grade; frame roof, acoustical treatment; addition to be built so that only two exterior walls will be needed, using present building for other two walls.

EE 6-12

WYOMING

HIGH SCHOOL ADDITION— **Casper, Wyo.**

(Estimated cost $90,000)

Working drawings underway for construction of a 20,000 sq. ft. addition to provide a band room at Natrona County High School, 930 S. Elm, Casper, for Natrona County School District in Casper. Plans by Holzinger-Schropfer & Associates, architects, Box 625, Casper.

LY 6-7 Previous report 3-2

CHURCH— **Cody, Wyo.**

Preliminary plans underway by Tresler & McCall, architects, 1276 Sheridan Ave., Cody, for construction of a new church for the Presbyterian Church, 1101 Beck Ave., Cody.

LY 6-11

METHODIST CHURCH— **Cody, Wyo.**

Preliminary plans underway by Tresler & McCall, architects, 1276 Sheridan Ave., Cody, for construction of a new church, for the Methodist Church, 1401 Beck Ave., Cody.

LY 6-11

● **POST OFFICE WORK—** **Cody, Wyo.**

Bids will be opened 1:30 p. m., June 18, by General Services Administration, Office of the Director, Business Service Center, Bldg. 41, Denver Federal Center, Denver, Colo., for extension and remodeling work at the U. S. Post Office in Cody. Plans with custodian of the building and with above office.

SP 6-12

● **APARTMENT HOUSES, AMPHITHEATER—** **Grand Teton National Park, Wyo.**

Bids to be opened 2 p. m., M.S.T., July 9, by National Park Service, in the office of superintendent, Grand Teton National Park, Moose, Wyo., for construction at Colter Bay of two four-unit one-story department buildings and an amphitheater of 1,100-seat capacity. Plans with National Park Service, 1000 Geary St., San Francisco, Calif. Bid guaranty 20%. Plans call for concrete foundations and slabs, masonry block and wood siding exterior walls, built-up roofs, frame partitions with gypsum board or wood finish, wood sash and doors, asphalt tile flor covering, metal wall tile, builders hardware, plank seats on concrete supports, concrete stage, sound system, asphalt paving, water distribution system, plumbing, heating and electrical work. Completion time 150 calendar days.

M 6-8

TRAINING SCHOOL CONSTRUCTION— **Lander, Wyo.**

Working drawings underway for construction of an addition to the infirmary and construction of a shop building at the Wyoming State Training School. T. M. Willson, superintendent, Lander. Plans by Tresler & McCall, architects, 1276 Sheridan Ave., Cody.

LY 6-7. Previous report 1-22

HIGH SCHOOL— **Lander, Wyo.**

Preliminary plans underway for construction of a high school at Lander, for Fremont County Vocational High School District in Lander. Plans by Tresler & McCall, architects, 1276 Sheridan Ave., Cody.

LY 6-11

● **HIGH SCHOOL—** **Rawlins, Wyo.**

(Estimated cost $1,200,000)

Bids to be opened 7:30 p. m., July 10, by School District No. 3, Carbon County, Rawlins, for construction of a three-story reinforced concrete high school at Rawlins. Plans with school clerk, High School Bldg., Rawlins. Plans by Kellogg & Kellogg, architects, 1909 Casey Ave., Cheyenne, Wyo. Separate bids on general, mechanical and electrical. Building will have partial basement and 30 classrooms.

DM 6-11. Previous report 5-29

■ **HOSPITAL—** **Thermopolis, Wyo.**

(Estimated cost $1,540,000)

Planholders announced for the one-story and basement, 277'x479' Memorial Hospital of Hot Springs County and Gottsche Foundation Institute to be constructed at Hot Springs State Park in Thermopolis. Bids to be opened June 21 by the joint board of trustees for the two groups in the Courthouse, Thermopolis. Plans with Fisher, Fisher & Davis, architects, 827 Denver National Bldg., Denver, Colo.

Planholders: Alfred Brown Co., Dooly Bldg., Salt Lake City, Utah; J. C. Boespflug Construction Co., Inc., 502 N. 25th, Billings, Mont.; George C. Reid, Lander, Wyo.; Spiegelberg Lumber and Supply, Laramie, Wyo.; Riedesel-Lowe Co., 501 E. 15th, Cheyene, Wyo.; Olson Construction Co., Denver, Colo.; Long Construction Co., Denver, Colo.; Nelson Construction Co., Sheridan, Wyo.

DM 6-8. Previous report 5-21

● **GYMNASIUM—** **Worland, Wyo.**

Bids to be opened 2 p. m., June 27, on a gymnasium for the Wyoming Industrial Institute at Worland. Plans with Robert Wehrlie, 829 C Y Ave., Casper.

LY 6-8

UTAH

★ **STORAGE BUILDING REMODELING—** **Beaver, Utah**

Award to Stallings & Hall Construction Co., 1233 Emerson Ave., Salt Lake City, $11,970, by Departments of the Army and Air Force, National Guard Bureau, Office of U. S. Property & Fiscal Officer, Fort Douglas, Utah, for remodeling the motor vehicle storage building at Beaver; NG-42-0256-57-15.

PD 6-7. Previous report 3-14

● **ELEMENTARY SCHOOL ADDITION—** **Bountiful, Utah**

Bids will be opened 8 p. m., June 27 (extended from approximate date of May 28), by Davis County Board of Education, Samuel Morgan, superintendent, Courthouse, Farmington, for construction of an eight-classroom two-story addition west of the Bountiful Elementary School. Plans with Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City.

SP 6-12. Previous report 5-21

SCHOOL CONSTRUCTION— **Farmington, Utah**

(Estimated cost $4,000,000)

Plans announced by Davis County School Board, Samuel Morgan, superintendent, Morgan, for a three-year building program in the district, $2,000,000 of which will have to

be approved by bond election. Program is scheduled as follows. 1957-1958: eight-room addition to Bountiful Elementary School; 10-room addition to Tolman School at Bountiful; new 22-room junior high school to be located on a site just north of the South Davis Stake Center at Bountiful; two- or three-room addition to Syracuse School; new gymnasium at North Davis Junior High School in Clearfield. 1958-1959: 20-room elementary school in the area immediately south of Bountiful; 10-room addition to Bountiful High School; new elementary schools in the Kaysville, Centerville and Clearfield-Sunset areas. 1959-1960: construction of a $900,000 secondary school in the Clearfield area in the north end of the county. GH 6-11

★ARMORY— Lehi, Utah

Award to Layton Construction Co., 1991 Siggard Drive, $160,360, by Utah National Guard, Brig. Gen. Maxwell E. Rich, Utah Adjutant General, Fort Douglas, for construction of an armory, including gymnasium, kitchen, small classrooms and other facilities, on the south side of Main St. at approximately 4th in east Lehi. Plans by Robert L. Springmeyer, architect, 617 Zions Savings Bank Bldg., Salt Lake City. PD 6-7. Previous report 5-29

●■ CHURCH UNIT— Roy, Utah
(Estimated cost $27,000)

Bids to be opened 8 p.m., June 20, by Our Savior Evangelical Lutheran Church, Rev. A. E. Wickerstrom, pastor, Roy, for construction of one-story, 2,400 sq. ft. first unit of a church plant in Roy. Plans with Haines & Purhonen, 65 E. 4th S., Salt Lake City. Description: concrete footings, foundation; solid masonry walls; concrete floor slab; aluminum windows; brick veneer; plaster partitions; asphalt tile flooring; asphalt shingles on roof; hot air, gas fired heating.

Planholders: John DeYoung, 1466 S. 10th E.; Weyher Construction Co., 580 S. 4th W.; John H. Mickelson & Co., 528 E. Center, Logan; Perce Young, 2750 S. Main; Atlas Construction Co., 1841 E. 9th S.; Chytraus Bros., 2040 Redondo; Security Construction, 1875 Redondo; David Quinney, 1474 S. 6th W. All of Salt Lake City unless noted. GH 6-11. Previous report 5-21

LDS CHAPEL— Salt Lake City, Utah

Working drawings underway by William E. Nelson, architect, 503 Utah Savings & Trust Bldg., Salt Lake City, for construction of a new LDS chapel, including classrooms, chapel, recreation room and bishops' offices, for the East Mill Creek 2nd, 3rd and 4th Ward in Salt Lake City. GH 6-7

MUSIC HALL— Salt Lake City, Utah
(Estimated cost $150,000)

Working drawings underway for remodeling of the old Union Building into a music hall at the University of Utah in Salt Lake City, for University of Utah Board of Regents, Reed C. Culp, chairman of building committee, Salt Lake City. Plans should be complete by June 1. GH 6-7

★ARMORY— Salt Lake City, Utah

Award to Groneman & Co., 70 W. 5th South, Provo, $379,305, by Utah National Guard, Brig. Gen. Maxwell E. Rich, Utah Adjutant General, Fort Douglas, for construction of the second National Guard armory at Salt Lake City. Plans by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City. PD 6-7. Previous report 5-29

HOSPITAL WING— Salt Lake City, Utah
(Estimated cost $2,000,000)

Working drawings underway by John W. Maloney, architect, Central Bldg., Seattle, for a wing on the south side or front of the existing Holy Cross Hospital at 1045 E. 1st S., Salt Lake City. Sister Olivia Maria is administrator of the hospital. GH 6-7

AUDITORIUM— Salt Lake City, Utah

A drive has been launched by the Sugar House Chamber of Commerce for construction of a new civic auditorium on the old prison grounds at 1400 East 21st South in Salt Lake City. All civic clubs in Salt Lake City will participate in the drive. GH 6-11

ELECTRONICS PLANT— Salt Lake City, Utah

Plans announced by Litton Industries, Charles B. Thornton, president, Beverly Hills, Calif., for construction of an electronics manufacturing plant on a 10-acre tract at about 2201 West on North Temple, near Salt Lake Municipal Airport No. 1, in Salt Lake City. The first unit of the facility will cover 30,000 sq. ft. and will be of masonry and structural steel. SC 6-11

INFORMATION BUILDING— Salt Lake City, Utah

Preliminary plans underway by John N. Clawson, architect, 1965 S. 11th East, Salt Lake City, for construction of a Bureau of Information building at the "This is the Place" monument site in Salt Lake City. Bids will be called by Utah State Building Board, Jerry G. King, superintendent, 419 State Capitol Bldg., Salt Lake City. GH 6-11

JORDAN HIGH SCHOOL— Sandy, Utah

Preliminary plans underway by Ashton, Evans & Brazier, architects, 24 S.W. Temple, Salt Lake City, for construction of an addition to Jordan High School involving a three-stage remodeling program at Sandy, for Jordan School District, Reed H. Beckstead, superintendent, 9361 S. State St., Sandy. First stage of program will include five classrooms, two biology laboratories, physics laboratory, demonstration room and choiral room. Other two stages will involve renovation of the old structure and a new gymnasium. GH 6-11

★ARMORY— Smithfield, Utah

Award to Olsen & Davis Construction Co., Logan, $138,604, by Utah National Guard, Brig. Gen. Maxwell E. Rich, Utah Adjutant General, Fort Douglas for construction of a new National Guard armory at Smithfield. Plans by Peter M. A. Moyes, architect, Boston Bldg., Salt Lake City. PD 6-7. Previous report 5-29

ALASKA

ST. MARY'S EPISCOPAL CHURCH— Anchorage, Alaska
(Estimated cost $55,000)

Bids will be called in March of 1958 by St. Mary's Episcopal Church, Rev. Philip Jerauld, priest in charge, Anchorage, for construction of the new wood frame church at Lake Otis and Tudor roads in Anchorage. Plans by Edwin B. Crittenden & Associates, architects, 1565 F St. (Box 358), Anchorage.

Plans incorporate the existing basement structure into the new church; glued laminated columns; frame flors; glued laminated roof; frame partitions; wood stairways; wood windows; shingle exterior wall finish, cedar and gypsum board interior; asphalt tile flooring; drywall ceilings; batt insulation; hot water heating system, oil fuel. SP 6-8. Previous report 3-27

●POL BUILDING FACILITIES— Anchorage, Alaska

Bids to be opened 2 p.m., A.S.T., June 25, by Corps of Engineers, Alaska office, D-E Bldg., Anchorage, for improvements to POL facilities, ENG-95-507-57-92 involving Sched. A, Ocean Dock; Sched. B, correct deficiencies in 35 mechanical rooms; Sched. C, hospital area rehabilitation, all at Fort Richardson and Elmendorf AFB. Plans with above office and with Seattle office, 4735 E. Marginal Way, Seattle. Bid bond 20%. Description: A—repair, clean, paint, bury 2,600' of 10" surface laid pipeline, replace 625' of 10" coated steel buried pipe, construct frame sampling house and four pit houses; B—repipe pumps, rearrange generators, hot water tanks and install new equipment in mechanical rooms of shops and garages; C—rehabilitate six frame buildings and one warehouse involving heating, electrical and plumbing systems, painting, roofing, security fence, gravel parking area. DM 6-8

■ HANGAR, PUMPHOUSE, APRON— Anchorage, Alaska

Planholders announced for construction of Air National Guard facilities, including a 155'x170' hangar addition, fire pumphouse and storage tank and 100'x160' portland cement concrete apron with tie-down anchors at the International Airport in Anchorage; ENG-95-507-57-86. Bids will be opened 2 p.m., June 19, by Corps of Engineers, Alaska District, in the Seattle branch office, 4735 E. Marginal Way, Seattle.

Planholders: Patti-MacDonald Construction Co., Spring Apt. Hotel, Seattle, and Pouch 6, Anchorage; Kuney-Johnson Co., 1266 Mercer St., Seattle; Chris Berg, Inc., Contractors, 2730 Westlake Ave. N., Seattle; H. D. Fowler Co., Inc., Box 3084, Seattle; Pacific Alaska Contractors, 1515 Center St., Tacom; Fairbanks, Morse & Co., 668 Lane St., Seattle; Lewis-Riffel, Inc., 5851 N. Lagoon Ave., Portland, Ore.; Wilson Construction Co., 429 5th Ave., Anchorage; M-B Contracting Co., Box 2059, Anchorage; C. R. Lewis Co., Box 2095, Anchorage; Pacific Alaska Contractors, Box 676, Anchorage; J. B. Warrack Co., Box 2080, Anchorage; John C. Miller, Box 1654, Anchorage. SP 6-12. Previous report 5-28

● HANGAR, PUMPHOUSE, APRON— Anchorage, Alaska

Place of bid opening has been changed on construction of Air National Guard facilities, including a 115'x170' hangar addition, fire pumphouse and storage tank, and 100'x160' portland cement concrete apron with tie-down anchors at the International Airport in Anchorage; ENG-95-507-57-86. Bids will now be received at 2 p.m., June 19, in the Seattle office of the Alaska District Corps of Engineers, at 4735 E. Marginal Way, Seattle. Bids were previously to have been received in Anchorage. DM 6-12. Previous report 5-28

★HEATING SYSTEMS— Eielson, Ladd AFB, Alaska

Awards announced by Corps of Engineers, Alaska district, D-E Bldg., Anchorage, for heating system modifications at Ladd AFB (Sched. A), the same at Eielson (Sched. B) and turbine room ventilation and floor extensions at Ladd (Sched. C); ENG-95-507-57-72. AWARDS—Chandler Plumbing and Heating, Inc., Box 534, Fairbanks, $64,190 (Sched. A) $78,023 (Sched. B); Torgerson Bros., Inc., 1213 1st, Fairbanks, $10,855 (Sched. C). DM 6-8. Previous report 6-1

●LABORATORY— Elmendorf AFB, Alaska

Bids to be opened 2 p.m., A.S.T., June 20, by Corps of Engineers, Alaska office, D-E Bldg., Anchorage, for construction of a National Bureau of Standards Laboratory at Elmendorf AFB; ENG-95-507-57-87. Plans with above office and Seattle office, 4735 E. Marginal Way, Seattle. Bid bond 20%. Description: Frame building 38'x50', concrete footings and floor, built-up asphalt roof, forced hot water system oil-fired, electrical distribution, water and sewer lines. DM 6-8



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ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

▲SEWAGE PLANT, SEWERS—Albany, Ore.

Only one bid was received for construction of Contract No. 1, Cox Creek Trunk Sewer, by city recorder, Arthur R. Johnson, City Hall, Albany. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. ONLY BID—SEWER: E. & W. Construction Co., 3170 W. 11th Ave., Eugene, $46,020 (completion time 120 days). No bids were received for construction of additions and modifications to the sewage treatment plant. Bids opened June 5.

WB 6-5. Previous report 6-5

▲STREET IMPROVEMENT— Baker, Ore.

Bids received by City Council, Baker, for 5.5 mi. of arterial and residential street asphaltic concrete paving. LOW BIDS: K. F. Jacobsen Co., 1107 N. Russell, Portland, $305,657; James G. Robertson, Clackamas, $319,926; Central Paving Co., Independence, $327,320. Bids opened June 3.

DC 6-8. Previous report 5-24

SEWERAGE SYSTEM— Beaverton, Ore.

Bond issue for $225,000 approved by Sunset Valley Sanitary District, Merrill A. Meigs, president, 240 S.W. 132nd Ave., Beaverton, for construction of a new sewage treatment plant, new pumping station, additional gravity flow and pressure sewers. Plans by Carl E. Green & Associates, 510 Henry Bldg., Portland. The district is located three miles northeast of Beaverton on both sides of Sunset Highway.

WB 6-7. Previous report 5-28

▲SEWAGE TREATMENT PLANT, LINES— Clatskanie, Ore.

Bids received by Roland J. Pascoe, city recorder, City Hall, Clatskanie, for 5,700' of 2" to 14" sewers and pressure mains (Sched. 1), three sewage pumping stations (Sched. 2) and sewage treatment plant (Sched 3) at Clatskanie. Plans by N. W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland. Bids opened June 10. SCHED. 1—LOW BIDS: Houston Construction Co., Underwood, Wash., $47,298; Harry E. Olds, 3111 N. 24th St., Tacoma, $58,059; George W. Lind, 5000 N.E. Killingsworth St., Portland, $65,748. SCHED. 2—ONLY BIDS: Everett L. Wiggins, 5622 N. Delaware St., Portland, $37,771; Packard Pipe & Pump Co., 554 14th Ave., Longview, $51,955. SCHED. 3—ONLY BIDS: Everett L. Wiggins, Portland, $94,342; Packard Pipe & Pump Co., Longview, $94,152.

WB 6-12. Previous report 6-7

● CLEARING— Cougar Reservoir, Ore.

Bids to be opened 2 p.m., P.S.T., June 27, by Corps of Engineers, Portland office, 628 Pittock Block, Portland, for clearing about 75 acre downstream from the proposed Cougar Reservoir dam, approximately six mi. south of town of Blue River, Lane County; CIVENG-35-026-57-265. Plans with above office. Bid bond 20%. Completion time November 9.

DM 6-12

★CONCRETE LINED CHANNEL— Eugene, Ore.

Award to J. M. Steinmuller, Jr., 907 W. 3rd St., Eugene, $126,806, by Corps of Engineers, 628 Pittock Block, Portland, for construction of a 1,800' concrete lined channel at Amazon Creek beginning at Station 513/16.4 and ending at Charnelton St. Bridge, Eugene, Willamette River Basin Project, Ore.; CIVENG-35-026-57-214.

WB 6-8. Previous report 5-14

★PAVING, CURBS, FILL— Eugene, Ore.

Award announced by Lane County School District No. 52, Edythe Wolfe, clerk, Administration Office, 4640 Barger Drive, Eugene, for installation of asphaltic concrete paving, concrete curbs and gravel fill at Willamette High School, Cascade Junior High School, Clear Lake School, Fairfield School, Daneho School and Bethel Grade School. Plans by Wilmsen & Endicott, architects, 863 E. 13 Ave., Eugene. Bids opened June 3. AWARD: T. C. Wildish, 1072 W. Broadway, Eugene, $17,896. ONLY OTHER BID: Central Heating Co., 865 Olive, Eugene, $18,665.

DW 6-12. Previous report 5-29

● FISH SCREEN STRUCTURE— Grants Pass, Ore.

Bid opening extended from June 19 to 10 a.m., P.S.T., July 25, by Bureau of Reclamation, Bldg. 243, Camp White, Ore., for a fish screen structure for Savage Rapids Dam, Grants Pass Project, Ore.; DC-4910.

DM 6-77. Previous report 5-7

SUBSTATIONS— Gresham, Ore.

(Estimated cost, $200,000)

Construction underway by Portland General Electric Co., Jack Murton, division manager, 40 N.E. 4th St., Gresham, for construction of new substation on 14-acre site at Hogan Road and Burnside Extension, and for expansion of Russellville Substation at 101st and Burnside St., with addition of 7,500 kva transformer. New substation will include 7,500 kva. transformer bank with 375 kva regulator, and 12.5 kv metalclad feeder equipment.

WB 6-7

■ CLEARING—Hills Creek Reservoir, Ore.

Planholders announced for clearing approximately 575 acres in Area A at Hills Creek Reservoir on Middle Fork Willamette River about eight mi. southeast of Oakridge, Lane County; CIVENG-35-026-57-258. Bids will be opened 2 p.m., P.S.T., June 19, by Corps of Engineers, Portland District, 628 Pittock Block, Portland.

Planholders: James S. Trummell, Route 2, Burley, Ida.; Schutt Construction Co., Inc., P.O. Box 727, Springfield; H. & M. Construction Co., P. O. Box 296, Nampa, Ida.; C. & S. Construction Co., Route 4, Mt. Vernon, Wash.; J. Ira McNutt, P.O. Box 296, Springfield; Zachary Construction Co., P. O. Box 57, Cumberland, Wash.; Henry Miller Contractor, Inc., 2191 N.E. Stephens, Roseburg; Tomlinson & Miller, Kellogg Route, Box 54, Oakland, Ore.; R. K. Shelton Construction Co., Box 290, Idleyld Route, Roseburg; Vergil Miller, 2041 Laura St., Springfield; R. W. Byers, P.O. Box 67, Redding, Calif.; L. M. Simkins, 1129 Broad St., Augusta, Ga.; Halco Excavating Contractor, Box 96, Duarte, Calif.; Murray Bros. Construction, Inc., Box 191, Bend; Wilber Peterson, Route 2, Box 435, Creswell.

WB 6-11. Previous report 6-5

▲BRIDGE— Hills Creek Reservoir, Ore.

Bids received June 6 by Corps of Engineers, Pittock Block, Portland, for construction of a reinforced concrete bridge at the lower crossing on the located Rigdon Road at Hills Creek Reservoir on Middle Fork Willamette River, two mi. southeast of Oakridge, Ore.; CIVENG-35-026-57-238. LOW BIDS: C. J. Eldon, Box 5686, Portland, $103,543; West Coast Steel Work, 5609 N.E. 77th, Portland, $104,919; Colonial Construction Co., W. 615 Mansfield, Spokane, Wash., $105,563.

WB 6-7. Previous report 5-2

▲SHOULDER REPAIR, SEALING— Klamath Falls, Ore.

One bid received by 13th Naval District, Bldg. 232, U.S. Naval Station, Seattle, for repair and sealing of 14/32 runway shoulders at the Klamath Falls Air Force Base, Klamath Falls; Spec. No. 12212/57. ONLY BID: Dorman Construction Co., 6808 Highway 99, Vancouver, Wash., $24,593.

PD 6-7. Previous report 5-8

● RADIAL DRILL—Lookout Point Dam, Ore.

Bids will be opened 11 a.m., July 2, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for one 48" radial drill, fob Lookout Point Dam powerhouse, Ore.; Inv. CIVENG-35-026-57-263.

WB 6-12

PAVING, RESURFACING— Malin, Ore.

City Council, Malin, has approved street improvements involving graveling the continuation of Broadway and Front streets, paving 4th for one block, resurfacing Railroad St. and patching several streets. Bids will be called early in June.

ZZ 6-7

● TRANSMISSION LINE— McKinley, Ore.

Bids will be opened 3 p.m., June 25, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the 3.3 mi. Reston-Fairview 230-kv transmission line No. 1, McKinley-Fairview section, beginning about 0.2 mi. southeast of McKinley and terminating about 0.2 mi. southeast of Fairview; Inv. No. 8438. Specifications with above office.

SP 6-11

★1957 STREET PROGRAM— Milton-Freewater, Ore.

Award to Russell Olson Construction Co., Inc., Box 272, Pendleton, $46,984, by City Council, Milton-Freewater, for the 1957 street improvement program consisting of 1.16 mi. of new streets.

DC 6-7. Previous report 5-31

★SEWAGE PUMPING STATION— Newberg, Ore.

Award to Tedrick Construction Co., Route 2, Box 131, McMinnville, $9,000, by City Council, Newberg, for construction of a sewage pumping station. Plans by Carl Green & Associates, consulting engineers, 510 Henry Bldg., Portland.

WB 6-7. Previous report 5-24

● PUMPING STATION— Oak Grove, Ore.

Bids to be opened 7:30 p.m., June 20, by Oak Lodge Water District, R. W. Bailey, secretary, Box 226, Oak Grove, for construction of pumping station, including installation of two 16" pipe headers and two 1,400 gpm pumps with 75 hp motors. Plans with Carl E. Green & Associates, 510 Henry Bldg., Portland. $15 deposit. Certified check or bid bond 5%.

Pumps, starting gear and valves will be furnished by district. Quantities: 80 c.y. excavation; 36 c.y. concrete; 4,300 lbs. reinforcing steel.

WB 6-11. Previous report 3-27

● CONCRETE BRIDGE— Oakridge, Ore.

Bids will be opened 2 p.m., June 28, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of a steel and reinforced concrete bridge on relocated Rigdon Road at the upper end of proposed Hills Creek Reservoir on Middle Fork Willamette River approximately 9 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-57-266. Specifications with above office. Bid bond 20%.

Quantities: 1,475 c.y. structural excavation; 21,000 c.y. rock fill; 1,553 c.y. substructure and superstructure concrete; 2,400 bbl. portland cement; 224,580 lb. steel reinforcement.

SP 6-11

★INSTALLING DAM EQUIPMENT— Pelton Damsite, Ore.

Award to Anderson-Burke Co., 2114 Thorndike Ave., Seattle, $312,600, by Portland General Electric Co., Fred G. Hodge, purchasing agent, 410 Maegly-Tichner Bldg., 610 S.W. Broadway, Portland, for installing, testing and placing in operating condition

electrical equipment and materials at the Pelton Hydroelectric Development located on the Deschutes River about ten miles west of Madras, Ore.
WB 6-12. Previous report 5-16

★SINGLE PHASE TRANSFORMERS— Portland, Ore.

Award to Westinghouse Electric Co., U. S. National Bank Bldg., Portland, $876,670, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for single phase transformers; Inv. 8365.
WB 6-7. Previous report 5-21

★TRANSMISSION LINE— Portland, Ore.

Awards to Nichols Construction Co., P. O. Box 336, Grandview, Wash., $66,622, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Chenoweth-Harvey 1.15 mi., 115 kv. lines No. 1 and 2, Wasco County, Ore.; Inv. No. 8349. WB 6-7. Previous report 5-3

▲RELOCATE GRAIN UNLOADER— Portland, Ore.

Bids received by Commission of Public Docks, 3070 N.W. Front Ave., Portland, for relocation of existing 4,000 bushel per hour pneumatic grain unloader at Pier 1, Terminal No. 4, Portland. BIDDERS: Steel Construction Co. of Oregon, 5300 N.W. Front Ave., Portland, $13,264; Fought & Co., Inc., Swan Island, Portland, $17,448. Bids opened June 7. WB 6-11. Previous report 6-5

■ DRAINAGE MODIFICATIONS— Portland, Ore.

Planholders announced for installation of relief wells, levee exploration and strengthening founndation for and relocation of pumping plant, discharge pipes along Columbia Slough north of Portland; CIVENG-35-026-57-262. Bids will be opened 2 p. m., P.S.T., June 25, by Corps of Engineers, Portland district, 628 Pittock Block, Portland.

Planholders: C. J. Eldon, P. O. Box 5686; Q. L. Rufener, Inc., 4729 S.E. Ash St.; Willamette Tug & Barge Co., Foot of N. Portsmouth Ave.; Erland & Bliekle, Box 1945; J. Bacaloff Co., 6009 N.E. 60th Ave.; Barger Construction Co., 1319 N.W. Eastman Ave., Gresham; Tomlinson & Miller, Kellogg Route, Box 54, Oakland, Ore.; Palmberg Construction, P. O. Box 991, Astoria; Larson Construction Co., P. O. Box 120, Astoria; Steelman-Duff, Inc., 1218 N.7. 118th Ave.; Manson Construction & Engineering Co., 3209 E. Marginal Way, Seattle; General Construction Co., P. O. Box 3860, Portland.
WB 6-11. Previous report 6-6

▲REPLACE FENDER PILING— Portland, Ore.

Bids received by Port of Portland, 5848 N. Lagoon Ave., Swan Island, Portland (P. O. Box 4099), for replacement of 158 fender piling at Swan Island Drydock Area. BIDDERS: C. M. Corkum Co., 2630 S.W. 2nd Ave., Portland, $13,176; General Construction Co., 4850 N.W. Front Ave., Portland, $13,272; H. G. Palmberg Co., P. O. 991, Astoria, $13,500. Bids opened June 6.
WB 6-11. Previous report 5-29

▲BRIDGE LIGHTING— Portland, Ore.

Bids received by Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for relighting the Broadway Bridge, including ramps from Hoyt St. and 10th Ave., with mercury-vapor lamps. LOW BIDS: Ace Electric Co., 3525 N.E. Broadway, $24,062; Rochat Electric Co., 4636 N. Williams Ave., $28,950; W. R. Grasle Co., 437 N.W. 16th Ave., $39,768. Of Portland. Bids opened June 6.
WB 6-8. Previous report 5-25

★WATER PIPE— Portland, Ore.

Award to U. S. Pipe & Foundry Co., Colman Bldg., Seattle, $56,456, and to Pacific States Cast Iron Pipe Co., Portland Trust Bldg., Portland, $25,882, by city purchasing agent, 208 City Hall, Portland, for cast iron water pipe. WB 6-12. Previous report 5-29

▲TRUNK WINCHES— Portland, Ore.

Bids opened by city purchasing agent, 208 City Hall, Portland, for furnishing and installing three 12,000 lb. capacity truck winches. BIDDERS: Pierce Trailer & Equipment Co., 1306 S.E. 9th Ave., $1,394; Schetki Equipment Corp., 1810 S.E. 10th Ave., $1,413. Of Portland. Bids opened June 6.
WB 6-8. Previous report 5-25

★GRADING, BRIDGE— Portland, Ore.

Award to Fred W. Stegeman & Associates, Lebanon, $15,961, by Bureau of Public Roads, R. N. Kellogg, acting regional engineer, 753 Morgan Bldg., Portland, for 0.302 mi. of grading and construction of 60′ reinforced concrete bridge, Oregon Timber Access Road Project BLM 29-A, Farmen Road, Bureau of Land Management Eugene District, Lane County. WB 6-12. Previous report 6-7

● GRADING— Portland, Ore.

Bids to be opened 10 a. m., June 26, by Bureau of Public Roads, 753 Morgan Bldg., Portland (Box 3900) for grading 0.842 mi. Miller Creek Road, Bureau of Land Management-Roseburg District, Ore.; TARP BLM 25-2-15-A, Douglas County, Ore. Plans with above office.

Quantities: 6.36 acre clearing, grubbing; 25,800 c.y. unclassified excavation; 3,000 c.y. select borrow; 244′, 18″ culvert pipe; 48′, 24″ culvert pipe; 64′, 108″ structural plate pipe. DM 6-12

▲STATE HIGHWAY PROJECTS— Salem, Ore.

Bids received June 6 by Oregon State Highway Commission in Salem on 13 highway construction projects. Awards will not be made until the next meeting of the commission in Portland on June 27.

ALSEA MAINTENANCE BUILDING — Masonry block, 25′x32′ addition to existing structure, ½ mi. south of Alsea-Deadwood Highway, Benton County, a State Project.

LOW BIDS: Decatur and Maerz, 3926 Hayesville Drive, Salem, $7,067; John M. Steinmuller, 907 W. 3rd, Eugene, $7,226; L. H. Malloy, Salem, $8,780.

LONG TOM RIVER BRIDGE — Treated timber trestle approaches and a 75′ steel pony truss span (furnished by county), 4.7 mi. N. of Monroe, Benton County project.

LOW BIDS: Hamilton & Thoms, Box 726, Eugene, $21,790; Smith Bros., 3801 Fourth Plain Road, Corvallis, $22,975; White Bros. Co., Box 376, Walla Walla, Wash., $23,912.

GRADING, SURFACING — BEAVER SLOUGH—Structure, grading, stone base on Chrome Plant section of North Bank Road, Coos County; FAP S-330(1). Involves construction of 752′ reinforced concrete and timber overcrossing of S.P.R.R. and 0.23 mi. of main highway roadbed.

LOW BIDS: Coos Bay Dredging Co., Coos Bay, $189,342; Sig Anderson, 1371 Bayview, North Bend, $193,923; White Bros., Walla Walla, $201,900.

MIDDLE FORK MALHEUR RIVER BRIDGE—Construct 133′ reinforced concrete deck girder bridge at town of Drewsey, Harney County; FAP S-167(2).

LOW BIDS: Harry Hahner, Inc., Burns, $34,402; Harold E. Roy and O. L. Fusby, Hermiston, $36,345; J. O. Young & Sons, Box 52, Nampa, Idaho, $36,668.

BURNS ROCK PRODUCTION—About 12,000 c.y. crushed sanding material in stockpiles on General Oregon and John Day-Burns Highways, Harney and Grant counties, a State Project.

LOW BIDS: C. E. Leseberg, 201 Reece, Nyssa, $37,200; C. C. Meisel, Box 206, McMinnville, $40,080; Bob Hevener and Elmer T. Jenkins, Burns, $40,200.

PAVING — WALDPORT - YACHATS — Shoulder shaping and asphaltic concrete paving 8.49 mi. Oregon Coast Highway, Lincoln County, a State Project.

LOW BIDS: Babler & Rogers, 4617 S.E. Milwaukie, Portland, $84,210; Central Heating Co., 865 Olive, Eugene, $89,502; Central Paving Co., Independence, $91,412.

GRADING, PAVING—Grading and asphaltic concrete paving 0.42 mi. at Gates Truck Scale site on North Santiam Highway, Marion County, a State Project.

LOW BIDS: Warren Northwest, Inc., Box 5072, Portland, $23,711; Central Paving Co., Independence, $24,584; Western Paving and Construction Co., 115 E. 2nd, Albany, $25,179.

OILING, WEST UNIT—Oiling 12.16 mi. oiling Heppner-Forest Boundary Section of Willow Creek Road southeast from Heppner, Morrow County; FAP No. S-318(1).

LOW BIDS: Barney Heiser, 14000 S.W. Far Vista, Beaverton, $119,758; Verne Jarl, 438 S. Roberts, Gresham, $127,314; Calkins Crushing Co., Oceanlake, $128,073.

GRADING, PAVING — NORTH UNIT — Grading, asphaltic concrete paving 5.88 mi. Grass Valley-Kent section of Sherman Highway south from Grass Valley, Sherman County, FAP Nos. F-152(5) and F-90(3).

LOW BIDS: Rogers Construction Co., 11760 N.E. Glisan, Portland, $422,060; Central Paving Co., Independence, $422,499; Vernie Jarl, Gresham, $423,791.

PAVING — MILTON-FREEWATER — Asphaltic concrete paving 0.38 mi. Poplar and W. Broadway streets, Umatilla County, a City Project.

ONLY BID: Russell Olson Construction Co., Box 272, Pendleton, $14,134.

OILING—WARM SPRINGS, TIMBERLINE HIGHWAYS—Oiling 14.98 mi. Clear Creek-Willow Creek and Timberline Lodge-Government Camp section, Wasco and Clackamas counties, a State Project.

LOW BIDS: Hutton Construction Co., Portland, $38,255; Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $38,973; Central Heating Co., Eugene, $43,242.

BARRIER—Metal median barrier 19,800′ with metal posts on Portland-Salem Expressway south of Portland, Barbur Blvd.-Tualatin River section, Washington, Clackamas and Multnomah counties; FIP No. I-303(18).

LOW BIDS: Chicago Fence and Equipment Co. and Chain Link Fence Corp., Chicago, Ill., $85,082; Fred J. Stubbert, 1056 J St., Springfield, $90,374; Vern Hoaglin, Bertha Beaverton Highway, Beaverton, $95,194.

GRADING, OILING — BUTTE CREEK PASS—Grading, oiling 4.64 mi. John Day Highway about 6.4 mi. south of Fossil, Wheeler County; FAP No. F-4(3).

LOW BIDS: Vernie Jarl, Gresham, $579,969; Natt McDougall Co., 824 Pittock Block, Portland, $592,244; Durbin Bros., Route 5, Box 490, Eugene, $637,514.
DM 6-7. Previous report 5-25

● TRANSFORMER— Springfield, Ore.

Bids to be opened 3 p. m., P.S.T., June 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 20 mva transformer addition to Springfield substation on U. S. Highway No. 126 (McKenzie Highway); Inv. No. 8437. Plans with above office. Bid guaranty 25%. Quantities: 975 c.y. excavation, grading; 315′ drainage ditch; 290 c.y. structure excavation; 52 c.y. reinforced concrete footings; 23,250 lb. steel erection. DM 6-11

SEWAGE PLANT, SEWERS—Tillamook, Ore.

Bids will be called soon by City Council, City Hall, Tillamook, for construction of secondary treatment facilities at the primary sewage treatment plant and for extension of sewers at Tillamook. Specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. The capacity of the sewage plant will be enlarged to provide full secondary treatment for a population load of 6,000 to 7,000. The effluent enters the Trash River. SC 6-7



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● TRANSFORMER ADDITIONS— Toledo, Ore.

Bids to be opened 2 p. m., P.S.T., June 26, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of transformer additions, Toledo Substation, east of Toledo in Lincoln County; Inv. No. 8446. Plans with above office. Bid guaranty 25%. DM 6-12

WASHINGTON

WATER SYSTEM— Aberdeen, Wash.

Working drawings are underway by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle, for construction of a water system for the Central Park Water district, near Aberdeen, Ed Dahlstrom, secretary, water district office, Central Park, Aberdeen. Bids will be called about the first of July. Project will include water mains, well water supplies and storage tank. PD 6-7. Previous report 1-16

CIRCUIT BREAKERS— Aberdeen, Wash.

Improvement authorization approved by Grays Harbor Public Utility District, J. J. Stein, manager, 217 S. H St., Aberdeen, for installation of new oil circuit breakers and a new bus at the Market and A St. substation in Aberdeen. The project consists of replacing the old bus and circuit breakers in order to permit the station to accommodate an additional 5,000 kva transformer. The old bus and circuit breakers will be transferred to the Pacific Beach substation. SC 6-7

▲WATERMAIN— Aberdeen, Wash.

Bids received June 5 by City Council, Aberdeen, for replacing about 6½ mi. of Wishkah River wood stave pipeline with 28" steel or concrete cylinder pipe. Plans by John W. Cunningham & Associates, 1112 Portland Trust Bldg., Portland.

LOW BIDS: McKay & Carlin, Aberdeen, $513,579 (steel pipe), $527,175 (concrete pipe); United Construction Co., Route 8, Box 469, Olympia, $584,698, $596,734; Harbor Construction, 4055 21st W., Seattle, $623,760, $611,284. Andy Johnson, Aberdeen, bid $578,314 on concrete pipe. PD 6-7. Previous report 5-29

● STANDPIPE— Bellevue, Wash.

Bids will be opened 8 p. m., June 17, in the office of King County Water District No. 68, Richard Montgomery, secretary, at S.E. 7th St. and 96th Ave. S.E., Bellevue, for furnishing and installing a steel water storage standpipe at 95th Ave. N.E. and N.E. 22nd St., Bellevue. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora St., Seattle. $10 deposit. 5% bid bond, certified check. SCHED. A: 750,000 gal. steel water storage standpipe. SCHED. B: Tank foundation and underground piping, miscellaneous appurtenances. SCHED. C: 760' 4" asbestos-cement pipe replacement, miscellaneous appurtenances. PD 6-8

● SEWER COLLECTION SYSTEM, SEWAGE TREATMENT PLANT ADDITIONS— Bellevue, Wash.

Bids will be opened 3 p.m., June 28, in sewer district's office, by Bellevue Sewer District, Donald Wilson manager, S.E. 6th, Bellevue, for construction of sewage collection systems and pumping station, and additions to sewage treatment plant under ULID No. 7. Plans and specifications with R. W. Beck & Associates, consulting engineers, 1505 Tower Bldg., Seattle. $25 deposit. 5% bid bond, certified check. Two separate contracts are involved.

Project involves a pumping station, approximately 14,000' of 10" to 14" sewer line, and 38,000' of 6" and 8" sewer line, (Contract No. 1); additions to sewage treatment plant to increase capacity to 2,000,00 gal per day, (Contract No. 2). PD 6-8

★BOX CULVERTS— Bellingham, Wash.

Award to C. V. Wilder Construction Co., 1490 State, Bellingham, $68,688, for construction of reinforced concrete box culverts on Commercial and Young streets at Whatcom Creek, and for setting back the curb and filling on Commercial St. Engineer's estimate was $94,149. Second low bid was submitted by Elford Construction Co., 1750 State, Bellingham, $72,073. ET 6-8. Previous report 5-29

ROAD WORK— Bellingham, Wash.

Whatcom County Commissioners, Courthouse, Bellingham, are planning several road improvement projects. Already approved are 1—two lifts of light bituminous treatment and seal coat on 5⅛ mi. in Point Roberts area, estimated to cost $19,545; 2—ballasting 3⅔ mi. Baker Lake Road area estimated at $24,964; 3—two lifts of light bituminous treatment on Pangborn and Jones roads et al, estimated at $13,440. Contemplated projects include 1—two lifts of light bituminous treatment on 4 mi. Sumas-Kendall Road et al, estimated at $14,040; 2—improvements to six roads in third commissioner district estimated at $20,160. ET 6-7

CAST IRON PIPE— Bellingham, Wash.

Bids will be called soon by Henry Donnelly, water superintendent, for 800' of 10" cast iron pipe to be used to cross the Bellingham freeway at Northwest Ave. The State will pay a portion of the cost, leaving about $2,100 for the city's share. ET 6-12

★BREAKWATER— Bellingham Harbor, Wash.

Award to General Construction Co., Box 3845, Seattle, $1,142,300, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of a new breakwater, construction of three navigation structures and rebuilding of existing breakwater east of Squalicum Creek Waterway in Bellingham Bay; CIVENG-45-108-57-70. PD 6-. Previous report 5-22

DRY DOCK— Bremerton, Wash.
(Estimated cost $25,000,000)

Bids will be called early in 1958 by the Navy on a dry dock at Bremerton Naval shipyard that will provide 371½ feet working space alongside a carrier. An additional $10,000,000 will ultimately be required for pier space lost in making room for the new dry dock. DC 6-12. Previous report 1-9

★NIKE FACILITY MODIFICATIONS, IMPROVEMENTS— Camp Hanford, Wash.

Award to George A. Grant, Inc., Box 764, Pasco, $55,266, by Corps of Engineers, Bldg. 602, City-County Airport, Walla Walla, for modifications to Nike facilities at Camp Hanford involving additions to generator buildings and installation of fencing; ENG-45-164-57-39. DM 6-12. Previous report 5-31

WATER SYSTEM— Central Park, Wash.

Working drawings are underway by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora Ave., Seattle, for construction of a new water system with one or more wells, storage tank, distribution mains and fire hydrants, for Water District No. 2, Grays Harbor County, Ed. Dahlstrom, chairman of water district. PD 6-12. Previous report 10-10

● ROCK SLOPE PROTECTION— Chief Joseph Dam, Wash.

Bid opening extended from June 18 to 2 p. m., P.S.T., July 9, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for removal and disposal of loose rock and placing 20,000 sq. ft. chain link fence on rock slope at east end of powerhouse, Chief Joseph Dam, Bridgeport, Wash.; CIVENG-45-108-57-75. Specifications with above office. Bid bond 20%. DM 6-7. Previous report 5-31

● SITE DEVELOPMENT— Covington Substation, Wash.

Bids to be opened 2 p. m., P.S.T., June 24, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for site development and building foundation at Covington Substation on State Highway A5 about five mi. east of Kent; Inv. No. 8434. Plans with above office. Bid guaranty 25%. Project involves clearing, grading warehouse and storage area, spur track extension and entrance road; 7,870 c.y. excavation, grading; 42 c.y. reinforced concrete footings; 305 c.y. warehouse floor slab; steel conduits; construct spur track extension; install 1,200' fabric fence; fuel oil tank, lines; drainage system; 1,420 ton asphaltic concrete for paving. DM 6-11

HARBOR IMPROVEMENT— Edmonds, Wash.
(Estimated cost $550,000)

Bond election will be held in the fall by Edmonds Port Commission, E. E. Hopper, president, Edmonds, for funds to finance development of the proposed Edmonds boat harbor, including a 1,800' breakwater to provide protection for enough space for 750 small boat berths. Plans will include a service wharf, boat launching facilities, fuel terminal, administration building, parking for 300 cars and boat trailers, and three concession spaces. The project will require dredging of 250,000 c.y. material to provide deep water. Construction will start in spring of 1958. HH 6-8. Previous report 1-30

▲ASPHALTIC CONCRETE PAVING— Edmonds, Wash.

Bids received by City Council, City Hall, Edmonds, for installation of 1,100' of asphaltic concrete paving on 7th Ave., Edmonds; LID No. 1. Bids opened June 7. LOW BID: Earl Joplin Paving, 730 Cary Road, Edmonds, $7,080. ONLY OTHER BID: Washington Asphalt Co., 309 W. 39th, Seattle, $7,701. PD 6-11. Previous report 6-1

● DRAIN SYSTEM— Ephrata, Wash.

Bids to be opened 10 a. m., P.S.T., June 27, by Bureau of Reclamation, Division and C St. N.W., Ephrata, for construction of DE79 drain system in Block 46, Columbia Basin Project, Adams County about seven mi. east of Othello; Spec. No. 117C-450. Plans with above office. Bid bond 10%. Work includes: (a) earthwork for 3.3 mi. open drains; (b) earthwork for structures; (c) earthwork for training dikes; (d) rock lining for 0.2 mi. open drains. Quantities: 20,500 lb. reinforcing steel; 71,000 c.y. common excavation; 1,100 c.y. rock excavation; 320 bbl. cement. DM 6-7

● DRAINS, PUMPING PLANT— Ephrata, Wash.

Bid opening extended from June 11 to June 25 by Bureau of Reclamation, Box 368, Ephrata, for deep drains and DE68V4 pumping plant, Block 45 near Othello, Adams County; Spec. No. 117C-443. Plans with above office. Bid bond 10%. DM 6-7. Previous report 5-11

● SEWER, WATER SYSTEMS, ROADWORK— Ephrata, Wash.

Bids to be opened 8 p. m., June 26, by City Council, City Hall, Ephrata, for construction of sanitary sewage collection system improvements, water works distribution pipe extensions, storm sewer collection system, alley improvements, construction of roadway consisting of concrete sidewalk, integral curb and gutter, asphaltic concrete paving, storm drains, retaining walls. Plans with Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima, and with Dorothy McKinnon, city clerk, Ephrata. $25 deposit.

Sched. I-A, LID 7: curb and gutter, sidewalks, storm drains, water lines, sanitary sewer lines. Sched. I-B, LID 7: street excavation, paving. Sched. 2-A, LID 8: curb and gutter, sidewalks, storm drains. Sched. 2-B, LID 8: street excavation, paving. Sched. 3-A, general obligation: curb and gutter, sidewalks, retaining walls, storm drains, storm sewers. Sched. 3-B, general obligation: street excavation, paving. Sched. 4: alley paving. IG 6-8

● CRAWLER TRACTOR— Ephrata, Wash.

Bids will be opened 2 p. m., June 17, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for purchase of crawler tractor and sale or trade-in allowance for used crawler tractor, and delivery fob shipping point and/or Ephrata, Wash.; Inv. No. J-38, 200-A. Specifications with above office. SP 6-12

▲**DIKES, STRUCTURES**— **Ephrata, Wash.**

Bids received by Bureau of Reclamation, Box 368, Ephrata, for WW77A W.W. dikes and structures, Block 87, about 20 mi. west of Othello, Grant County, Wash.; Spec. No. 117C-444. Bids opened June 11. LOW BIDS: Burd & Bush, Box 96, Ephrata, $12,444; Mast & Myers, Box 1132, Moses Lake, $16,333; Henley Construction Co., 2208 S. 1st, Yakima, $18,720. Engineer's estimate, $11,405.
SP 6-12. Previous report 5-21

●**PILING**— **Everett, Wash.**

Bids will be opened 8 p.m., June 24, by Port of Everett, Tom McCutchan, manager, Port Office, Pier 1, Everett, for removal of approximately 60 existing piling and driving approximately 80 piling at the 14th St. Small Boat Harbor. Specifications with James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. $10 deposit. 5% bid bond, certified check or cashier's check.
PD 6-8

★**STREET LIGHTING**— **Everett, Wash.**

Award to Beldon Electric Co., 2815 Rockefeller, Everett, $85,440, by City Council for installing mercury-vapor street lights on aluminum standards serviced by underground wiring in the business district of Everett.
DC 6-12. Previous report 6-6

★**GRADING**— **Fairmount Substation Site, Wash.**

Award to I. M. Saimons, Alderwood Manor, $32,843, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for grading the Fairmount Substation site, Jefferson County, Wash.; Inv. 8409.
WB 6-12. Previous report 6-8

●**TEST WELL**— **Fort Lewis, Wash.**

Bids will be opened 2:15 p.m., June 24, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of test well No. 2 in the Ordnance Ammunition Area, Fort Lewis; ENG-45-108-57-167. Specifications with above office. Bid bond 20%.
SP 6-12

●**SEPTIC TANK**— **Ilwaco, Wash.**

Bids to be opened 2 p.m., P.S.T., June 18, by 13th Coast Guard District, 618 2nd, Seattle, for construction of 1,500 gal. reinforced concrete septic tank and accessories at Cape Disappointment Lifeboat Station, Ilwaco, Wash.; Bid No. FS-1619. Plans with above office. Bid bond 5%.
DM 6-7

●**SEWERS**— **Kelso, Wash.**

Bids to be opened 8 p.m., June 17, by City Council, City Hall, Kelso, for construction of sanitary sewers and water lines. Plans with Lora Blackstone, city clerk. $20 deposit. Certified check or bid bond 5%. Quantities: 2,000', of 10" 6,300' of 8", 2,600' of 6", 1,800' of 4" sewer pipe; 45 manholes; 1,800' of 4" cast iron pipe, mechanical joints; 15 fire hydrants.
DC 6-7

▲**PUMPING STATION, WATERMAIN**— **Kent, Wash.**

Bids received by City of Kent, town clerk, City Hall, Kent, for installation of a booster pumping station and 13,000' of 18" and 24" transmission watermain, plus development of springs on the Rock Creek Supply Main, Kent. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. Bids opened June 3. CONTRACT No. 5: Nielsen Brothers and Johnson Construction, 2626 Porter, Enumclaw, $36,711 (only bidder). CONTRACT No. 6—ALT. No. 1: Ace Construction Co., 7516 Roosevelt Way, Seattle, $287,672 (Pipe profile A, 18" and 24" steel pipe), $263,432 (Pipe profile B, 18" and 24" steel pipe); F. M. Taylor, 2108 N. 194th, Seattle, $354,135, $309,585; Frank Coluccio, 7778 Seward Park Ave., Seattle, $376,795, $363,045. ALT. No. 2: Ace Construction Co., $259,002 (Pipe profile A, 16" and 18" steel pipe), $234,762 (Pipe profile B, 16" and 18" steel pipe); F. M. Taylor, $315,120, $270,570; Frank Coluccio, $346,065, $332,315. CONTRACT No. 7: Frank Coluccio, $26,670 (only bidder).
PD 6-8. Previous report 5-31

★**LIFEBOAT STATION REPAIRS**— **LaPush, Wash.**

Award to DelGuzzi, Inc., 1020 E. Front St., Port Angeles, $9,353, by 13th Coast Guard District, 618 2nd Ave., Seattle, for sheerboom and launchway repairs, installation of gravity fuel oil system and revision of boathouse wiring at Quillayute River Lifeboat Station at LaPush; Bid No. FS-1587.
PD 6-7. Previous report 5-31

●**POWER LINE RELOCATION**— **McChord AFB, Wash.**

Bids will be opened 2 p.m., June 24, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for power and telephone line relocation for traffic signals at McChord AFB; ENG-45-108-57-165. Specifications with above office. Bid bond 5%.
SP 6-12

●**WATERMAIN**— **Mercer Island, Wash.**

Bids will be opened 8 p.m., June 27, by Mercer Island School District No. 400, Box 215, Mercer Island, for construction of a watermain for Mercer Crest School, 4136 86th Ave. S.E., Room 504, Mercer Island. Specifications with Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle. $10 deposit. 5% bid bond, certified check or cashier's check. Quantities: 6,490' of 6" to 14" cast iron class 150 pipe; 9' of 6" to 8" gate valves; 300 c.y. ¾" minus crushed rock; 40 c.y. pitrun sand and gravel.
PD 6-12

●**PUMPHOUSE**— **Moses Lake, Wash.**

Bids to be opened 8 p.m., June 18, by City Council, City Hall, Moses Lake, for construction of a pumphouse, installation of a 1600 gpm pump and 150 hp motor, electrical and pipe. Plans with city engineer. $15 deposit. Certified check, cashier's check or bid bond 5%. Sched. 1, pumphouse; Sched. 2, pump and motor; Sched. 3, electrical work; Sched. 4, piping.
DC 6-7

★**GRADING, SURFACING**— **Nespelem, Wash.**

Award to George Grant and R. A. Sime, Kennewick, $135,284, by Bureau of Indian Affairs, Portland Area Office, Roads Branch, 1001 N.E. Lloyd Blvd., Portland (Box 4097), for grading, draining and selected borrow base and surfacing courses on 10.85 mi. of highway near Nespelem, Colville Indian Reservation; Project CIR-609.
WB 6-12. Previous report 5-23

●**GRADING**— **Nisqually Area, Wash.**

Bids to be opened 10 a.m., July 2, by Bureau of Public Roads, 753 Morgan Bldg., Portland, for grading 3.123 mi. Mt. Rainier National Park Project 1-B10, Nisqually Entrance Road, Lewis and Pierce counties, Wash. Plans with above office. Quantities: 47 acre clearing; 38 acre grubbing; 261,000 c.y. excavation; 1,024,000 sta. yd. overhaul; 2,300' culvert pipe.
DM 6-8

●**BRIDGE**— **Nooksack River, Wash.**

Bids to be opened 10 a.m., P.S.T., June 24, by U.S. Forest Service, 729 N.E. Oregon, Portland, for construction of the 90', reinforced concrete North Fork Nooksack River Bridge on Wells Creek Road No. 403 about ½ mi. from State Highway No. 1, Whatcom County, Mt. Baker National Forest. Plans with above office and with supervisor of Mt. Baker National Forest, Post Office Bldg., Bellingham. Bid bond 5%. Quantities: 843 c.y. excavation; 103 c.y. concrete; 28,600 lb. reinforcing steel; 325 lb. structural steel; 172' metal safety rail.
DM 6-8

▲**SANITARY SEWER**— **Oak Harbor, Wash.**

Bids received by Clarissa Walrath, town clerk, City Hall, Oak Harbor, Whidbey Island, for construction of sewer extensions to the existing sanitary sewer system, involving 17,940' of 8" to 12" sewer and 60 manholes. Bids opened June 4. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. LOW BIDS: The Ballard Co., 1537 Ballard Way, Seattle, $73,930; Wilder Construction Co., 1840 State, Bellingham, $76,565; Ace Construction Co., 7516 Roosevelt Way, Seattle, $81,559. Contract will be awarded soon.
PD 6-7. Previous report 5-31

●**STORAGE TEST FACILITY**— **Oak Harbor, Wash.**

Bids will be opened 2 p.m., June 27, by 13th Naval District, room 100, Bldg. 232, U.S. Naval Station, Seattle, for a turbo-jet engine test facility, consisting of 2,500 sq. ft. 6" concrete paving, an 11 sq. ft. precast concrete building, 1,700' asphaltic concrete roadway, two 5,000-gal. underground oil storage tanks and extension of existing water, fire alarm and electrical services, at the U.S. Naval Station, Whidbey Island, Oak Harbor, Wash.; Spec. No. 6731/57. Specifications with above office.
SP 6-11

★**POWER SHOVEL**— **Okanogan, Wash.**

Award to Helliwell Equipment Co., E. 4031 Trent, Spokane, $25,994, by Okanogan County Commissioners, Courthouse, Okanogan, for furnishing a ½ c.y. truck-mounded power shovel. Bids opened June 10. Eleven bids were submitted, the highest being $31,590.
DM 6-12. Previous report 5-31

■**WATER SUPPLY SYSTEM**— **Olympic National Park, Wash.**

Planholders announced for construction of a water supply system for log cabin resort at Olympic National Park. Bids will be opened 2 p.m., June 20, by National Park Service, in the office of the superintendent, Olympic National Park, 600 E. Park Ave., Port Angeles.

Planholders: Louis Elterich, Box 868; DelGuzzi, Inc., 1020 E. Front; Owens Brothers, Railroad and Oak Streets; James Dempsey, Route 3; H. D. Fowler, Inc., Box 3084, Seattle; Wilson & Simpson, Box 1070; Federal Pipe and Tank, 6857 E. Marginal Way, Seattle. All of Port Angeles except as noted.
PD 6-7. Previous report 5-28

●**BRIDGE**— **Olympia, Wash.**

Bids to be opened 2 p.m., P.S.T., June 20, by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, Olympic National Forest, Post Office Bldg., Olympia, for construction of the Koestner Creek Bridge on Canoe Creek Road No. 247, about 50 mi. northeast of Aberdeen, Grays Harbor County, Olympic National Forest, Wash.; Bid No. 272. The bridge is to have a pile driven substructure with glued laminated treated superstructure and is to be about 50' in length. Plans with Olympia office. Bid bond 5%.

Quantities: 165 c.y. excavation; 5,037 lb. structural steel; 5.06 Mbm timber (glu lam); 15.42 Mbm treated timber; .25 Mbm untreated timber; 590' treated timber piling; 25 pile shoes.
DM 6-7

■**STATE HIGHWAY PROJECTS**— **Olympia, Wash.**

Planholders announced on state highway projects for which bids will be opened 10 a.m., June 18, by Washington State Highway Commission, Transportation Bldg., Olympia.

CEMENT TREATED BASE—PINES ROAD TO GREENACRES — Surfacing, cement treated base, asphaltic concrete paving, illumination systems on 5.556 mi. PSH No. 2, Spokane County; FAP No. I-002-6(26).

Planholders: Frank G. Baulne, Inc., Box



84, Yardley; Carbon Bros., N. 3430 Cook, Spokane; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Donald M. Drake Co., 1600 N.W. Savier, Portland; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Inland Asphalt Co., Box 4116, Station B, Spokane; Max J. Kuney Co., N. 120 Ralph, Spokane; Curtis Construction Co., Box 106, Spokane; American Bitumuls and Asphalt Co., Box 4062, Portland; Central Paving Co., Box 38, Independence, Ore.; Dorman Construction Co., 201 Adams Bldg., Vancouver; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; S & F Construction Co., Inc., Route 2, Spokane; Soule Steel Co., Box 3685, Terminal Annex, Seattle; D. A. Sullivan, Box 37, Parkwater Station, Spokane; Sullivan Paving, Inc., E. 6614 Main, Spokane; Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver; Snook Bros., General Delivery, Colville.

CEMENT CONCRETE PAVING—MIDDLE CROSSING OF SNOQUALMIE RIVER-CAMP MASON—Cement concrete and asphaltic concrete paving on 3.583 mi. PSH No. 2, King County; FAP No. I-002-1(15).

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Donald M. Drake Co., Portland; S. H. Edinger, Box 283, Kenmore; Fiorito Bros., 1100 Leary Way, Seattle; Permanente Cement Co., 5975 E. Marginal Way, Seattle; Charles R. Watts Co., 4121 6th Ave., N.W., Seattle; American Bitumuls and Asphalt Co., Portland; Peter Kiewit Sons' Co., Box 1777, Vancouver; Northwest Construction Co., 3950 6th N.W., Seattle; Washington Asphalt Co., 309 W. 39th, Seattle.

BITUMINOUS SURFACING — PARK RAPIDS-OLSEN CREEK — Clearing, draining, grading, light bituminous surfacing treatment, stockpiling crushed stone surfacing, maintenance rock, mineral aggregates on 2.320 mi. SSH No. 6-A, Stevens County; FAS No. S-0283(1) and State Project.

Planholders: Frank G. Baulne, Inc., Yardley; Carbon Bros., Spokane; Cherf Bros., Inc. and Sandkay Contractors, Inc., Ephrata; Curtis Construction Co., Spokane; F. R. Hewett Co., Spokane; Materne Bros., Spokane; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Russell-Gillett Co., Box G, Cle Elum; American Bitumuls and Asphalt, Portland; James Crick & Sons, Box 4228, Station B, Spokane; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; Standard Asphalt Paving Co., 119 N. Post, Spokane; D. A. Sullivan, Spokane; Morrison & Co., Inc., Box 597, Walla Walla; C. J. Painter, 947 W. Court, Pasco; Louis Schaefer, Box 1186, Quincy.

PAVING — DOLLARD ROAD-ARGONNE ROAD—Grading, surfacing, asphaltic concrete paving 1.913 mi. SSH No. 2-H, Spokane County; FAS No. US-0284(1).

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Curtis Construction Co., Spokane; F. R. Hewett Co., Spokane; Inland Asphalt Co., Spokane; Max J. Kuney Co., Spokane; Materne Bros. Co., Spokane; McAtee & Heathe, Inc., Spokane; S & F Construction Co., Spokane; Sullivan Paving, Inc., E. 6614, Spokane; Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver; Stagman & Robert, N. 1102 Pierce Road, Spokane.

BITUMINOUS SURFACING, PAVING—WINCHESTER WASTEWAY — NAYLOR—Roadmix bituminous surfacing, asphaltic concrete paving 16.18 mi. SH Nos. 7, 2, 2-F, Douglas and Grant counties; FAP Nos. F-031-1(6), F-028(4), State Project.

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Curtis Construction Co., Spokane; F. R. Hewett Co., Spokane; Materne Bros. Co., Spokane; American Bitumuls and Asphalt Co., Portland; Central Paving Co., Box 38, Independence, Ore.; Doolittle Construction Co., 519 Adams, Seattle; McAtee & Heathe, Inc., Spokane; Hardisty Construction Co., Inc., Vancouver; Morrill Asphalt Paving Co., Inc., Wenatchee; Morrison & Co., Inc., Box 597, Walla Walla.

BITUMINOUS SURFACING—WHITE SWAN—Clearing, draining, grading, light bituminous surfacing 0.664 mi. SSH No. 3-B, Yakima County; FAS No. S-0269(2).

Planholders: C & E Construction Co., Inc., Box 1545, Yakima; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; R. L. Moss & Co., Box 37, Zenith.

BITUMINOUS SURFACING—MARYHILL EAST—Light bituminous surfacing 11.740 mi. PSH No. 8, Klickitat County; FAP No. F-047-1(3).

Planholders: J. C. Compton, Box 86, McMinnville, Ore.; Doolittle Construction Co., Seattle; Dorman Construction Co., 201 Adams Bldg., Vancouver; McAtee & Heathe, Inc., Spokane; Morrison & Co., Inc., Walla Walla; American Bitumuls and Asphalt Co., Portland.

ASPHALT CONCRETE PAVING—EATONVILLE CUT-OFF AND MUCK-KAPOWSIN HIGHWAY—Clearing, draining, grading, asphaltic concrete paving 3.2 mi. Pierce County roads; FAS No. S-1319(1, S-0390(3).

Planholders: Associated Sand and Gravel Co., 6300 Glenwood, Everett; American Bitumuls and Asphalt Co., Portland; R. L. Moss & Co., eZnith; Pacific Sand and Gravel Co., Box 628, Centralia; Woodworth & Co., Inc., 1200 E. D St., Tacoma.

ROAD BRIDGE-COUNTY LINE—Clearing, draining, grading, surfacing, constructing reinforced concrete slab bridge on 0.270 mi. Grays Harbor and Pacific county road; FAS No. S-0573(2).

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Northwest Steel Rolling Mills, Inc., Seattle; Permanente Cement Co., 5975 9th N.W., Seattle; Wilson & Simpson, Box 1070, Port Angeles; Bocek Bros., Box 666, Hoquiam; Roger E. Holmes, Route 10, Box 493, Olympia; John E. Alexander, Inc., Box 7006, Seattle; Lee T. Dulin, 1035 W. Shinn, Kent; Quigg Bros.-McDonald, Inc., 1500 Riverside, Hoquiam; Soule Steel Co., Seattle.

BRIDGE—LATAH CREEK — Constructing reinforced concrete girder bridge on 0.030 mi. Spokane County road; FAS No. S-0469 (2).

Planholders: O. M. Chaplin, 328 S. Thor, Spokane; Cherf Bros., Inc. and Sandkay Contractors, Inc., Ephrata; Donald M. Drake Co., Portland; Walter G. Meyers & Sons, 1407 N. Calispel, Spokane; Murphy Bros., Inc., Spokane; Lee T. Dulin, Kent; Soule Steel Co., Seattle; Snook Bros., Colville.

BITUMINOUS SURFACING — GOLDENDALE-KLICKITAT-LYLE — Light bituminous surfacing 7.5 mi. Klickitat County Road; FAS No. S-0958(3).

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Curtis Construction Co., Spokane; American Bitumuls and Asphalt Co., Portland; J. C. Compton, McMinnville, Ore.; Doolittle Construction Co., Seattle; Dorman Construction Co., Vancouver; McAtee & Heathe, Inc., Spokane; Morrison & Co., Inc., Walla Walla.

STORM SEWER IN RITZVILLE—Storm sewer on 0.746 PSH No. 11, Adams County, a State Project.

Planholders: Murphy Bros., Inc., Spokane; Russell-Gillett, Cle Elum; R. L. Moss & Co., Zenith; Stagman & Roberts, Spokane.

PAVING — OLLALLIE CREEK-SUMIT—Asphaltic concrete paving 3.701 mi. PSH No. 2, King County, a State Project.

Planholders: American Bitumuls and Asphalt Co., Portland; Washington Asphalt Co., Seattle.

STOCKPILING — MIDWAY VICINITY—Stockpiling about 144,000 ton crushed stone surfacing, maintenance rock and mineral aggregates on PSH No. 2, Kittitas County, a State Project.

Planholders: Frank G. Baulne, Inc., Yardley; Carbon Bros., Spokane; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata; Curtis Construction Co., Spokane; F. R. Hewett, Spokane; Materne Bros. Co., Spokane; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; C & E Construction Co., Inc., Box 1545, Yakima; W. F. Herrett Co., 1619 E. Lynn, Seattle; Max J. Kuney Co., Spokane; D. A. Sullivan, Spokane; Wilder Construction Co., 1840 State, Bellingham; C. J. Painter, Pasco.

STOCKPILING — SOUTH BEND—Stockpiling about 9,350 ton crushed stone surfacing, maintenance rock, mineral aggregates on PSH No. 12, Pacific County, a State Project.

Planholders: Curtis Construction Co., Spopane; W. F. Herrett, Seattle; M. W. Logging Co. and Nasell R Co., Naselle; Pacific Sand and Gravel Co., Centralia; Quigg Bros.-McDonald, Inc., Hoquiam.

PAINT BRIDGES—Clean, paint six bridges on SH Nos. 8, 12, 1-N, I-R, Skamania, Lewis Wahkiakum, Cowlitz counties, Wind River Bridge et al, a State Project.

Planholders: Andrew Nesheim, 9711 191st S.W., Edmonds; A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland; Industrial Painters, Route 3, Box 1220, Bremerton.

PAINT BRIDGES — QUINAULT RIVER—Clean, paint three bridges on SH Nos. 9, 13-A, Grays Harbor County, a State Project.

Planholders: Andrew Nesheim, Edmonds; A. H. Barbour & Son, Inc., Portland; Industrial Painters, Bremerton.

PAINT BRIDGES — WENATCHEE RIVER—Clean paint four bridges on SH Nos. 15-C, 16 in Chelan and Okanogan counties, a tSate Project.

Planholders: Andrew Nesheim, Edmonds; A. H. Barbour & Son, Inc., Portland; R. P. Fisher & Sons, 5252 Fontanelle Place, Seattle; Industrial Painters, Bremerton.

NARROWS BRIDGE — Substructure and superstructure of Port Washington Narrows Bridge across the Port Washington Narrows on Secondary State Highway No. 21-B (Warren Ave.), Bremerton, Kitsap County.

Planholders: Blaw-Knox Equipment Division, Box 1198, Pittsburgh, Penn.; General Construction Co., Box 3845, Seattle; Ben C. Gerwick, Inc., 417 Market, San Francisco, Calif.; Peter Kiewit Sons' Co., Box 177, Vancouver; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; MacRae Bros., 5900 2nd S., Seattle; Northwest Steel Rolling Mills, Inc., Seattle; Permanente Cement Co., Seattle; Rumsey & Co., 3821 Airport Way, Seattle; United Concrete Pipe Corp., Box 467, Auburn; M. P. Butler, 3419 13th S.W., Seattle; Gate City Steel, Inc., 4000 Warm Springs Ave., Boise, Idaho; Industrial Painters, Bremerton; Pacific Bridge Co., 256 Montgomery, San Francisco, Calif.; Soule Steel Co., Seattle; John W. Stang Corp., 8221 Atlantic Ave., Bell, Calif.

DM 6-11. Previous report 6-1

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Awards announced by Washington State Highway Commission, Olympia, on two projects on which bids were opened June 4.

Clearing, draining, grading, surfacing 1.979 mi., Quilcene Center Road, Jefferson County; FAS No. S-0497(5). AWARD: J. P. Surace Construction Co., 3238 Seaview, Seattle, $38,716. Asphaltic concrete paving 2.140 SH Nos. 3, 4, 3-A, Meade Ave. intersection, Yakima County, a State Project. AWARD: DeAtley Asphalt Paving and Crushing Co., 809 Broadway, Yakima, $53,167.

DE 6-12. Previous report 6-6

● DITCHER— Othello, Wash.

Bids to be opened 2 p. m., M.S.T., June 17, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one hydraulically operated ditcher with revolving superstructure fob shipping point and/or Othello, Wash.; Inv. No. DJ-38-201-A. Plans with above office. DM 6-11

SEWER SYSTEM (PHASE 1)—Pasco, Wash. (Estimated cost $300,000)

Preliminary specifications have been completed by Cornell, Howland, Hayes & Merryfield consulting engineers, 1600 Western Ave., Corvallis, Ore., for the first phase of a long range program for storm and sanitary sewer system, involving 35,000' of 8" to 12" sewer pipe in LID No. 63, Pasco. It is hoped that construction will be completed during 1957. SC 6-7. Previous report 3-7

● AIRPORT LIGHTING— Pasco, Wash.

Bids to be opened 8 p. m., P.S.T., June 18, in the office of city clerk, City Hall, Pasco, for installation of runway lighting system for City of Pasco Municipal Airport. Plans with above office. Engineers for project are Vincent E. Small & Associates, 824 W. Lewis, Pasco. $15 deposit. Certified check, cashier's check or bid bond 5%. DM 6-8

★TIMBER BRIDGE— Randle, Wash.

Award to H. & W. Construction Co., Randle, $12,992, by U. S. Forest Service, re-

gional supply officer, 729 N.E. Oregon St., Portland, Box 4137), for construction of 39' treated timber Adams Creek Bridge on Randle, Trout Lake Road No. 123-1, approximately 25.9 mi. southeast of Randle, Skamania County, Wash., Gifford Pinchot National Forest. 801 W. 8th St., Vancouver.
WB 6-7. Previous report 5-29

★**REPLACEMENT WELL— Richland, Wash.**

Award to Western Drilling and Equipment Co., 1545 E. Bay, Tacoma, $13,500, by Atomic Energy Commission, Box 550, Richland, for constructing a 75' deep well, relocating wellhouse, reinstalling pump system, installing electrical facilities about four mi. north of Richland. Completion time 45 days.
DM 6-12. Previous report 5-23

▲**FENCING— Richland, Wash.**

Colorado Fuel and Iron Corp., E. 117 Boone, Spokane, $3,439, was low bidder June 10 for installing in the 700 Area at Richland 550' of chain link and hog wire fence and at Richland cemetery 290' of chain link fence. Bids were opened by Atomic Energy Commission, Box 550, Richland.
DM 6-12. Previous report 6-7

★**ROADMIX BITUMINOUS SURFACING— Ritzville, Wash**

Award to Standard Asphalt Paving Co., Inc., N. 119 Post St., Spokane, $58,184, by Adams County Commissioners, Courthouse, Ritzville, for 9.5 mi. of light bituminous surface treatment, 20 mi. of non-skid seal and 9 mi. of roadmix leveling course.
PD 6-12. Previous report 5-31

■ **GRADING, SURFACING— Seattle, Wash.**

Planholders announced for three separate street construction projects. Bids will be opened 9:30 a.m., June 17, by King County Commissioners, 402 County-City Bldg., Seattle.

Planholders — S.E. 53rd PLACE: Excavators, Inc., 5756 29th N.E.; Thomas Scalzo, 3211 Airport Way; Anderson & Johnson, 11037 Roosevelt Way; L. L. Newburn Co., 6262 14th Ave. S.; Seattle Contracting Co., 101 Nickerson; Kent & Tucker, Inc., 1431 134th N.E., Bellevue; Bass Construction Co., 12526 Aurora Ave.; John Patricelli, 1534 32nd S.; Lake City Gravel and Materials, 10720 Bothell Way; Anderson & Akers, 4756 Fauntleroy.

224TH AVE. N.E.: Belfield Brothers, Kent-Kangley Road, Kent; Morrison Construction Co., 512 21st Ave. S.; J. B. Sitterding, Box 647, Fall City; J. J. Welcome, Box 641, Redmond; plus all planholders for S.E. 53rd Place with the deletion of Seattle Contracting Co.

MAIN ST., 148TH N.E.; Same as for S.E. 53rd and 244th N.E. except for deletion of Seattle Contracting Co., J. B. Sitterding, and J. J. Welcome. All of Seattle except as noted. PD 6-7. Previous report 5-25

★**METER SETTERS— Seattle, Wash.**

Award to H. D. Fowler Co., Inc., 901 Lane, Seattle, $21,630, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 3,000 copper meter setters. PD 6-8. Previous report 5-29

★**TRASHRACK RAKE, STEEL TOWERS— Seattle, Wash.**

Award to Isaacson Iron Works, 8351 E. Marginal Way, Seattle, $15,000, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 12 type A frame galvanized steel towers. Award for Trashrack Rake has not yet been made.
PD 6-8. Previous report 5-28

★**GRADING, SURFACING— Seattle, Wash.**

Award to W. J. Halloran, 416 Virginia St., Seattle, $29,865, by King County Commissioners, 402 County-City Bldg., Seattle, for draining, grading, surfacing with crushed stone 1.86 mi. of 1162th Ave. S.E. from SSH No. 5-A to S.E. 232nd St., King County.
PD 6-8. Previous report 5-29

●**STANDPIPE ROOF— Seattle, Wash.**

Bids will be opened 2 p.m., June 26, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for re-laying existing slate roof (Alt. No. 1), or replacing existing room with asphalt shingles (Alt. No. 2), on the Volunteer Park Standpipe, Seattle. Specifications with Water Department, 323 County-City Bldg., Seattle.
PD 6-8

●**AIR-CONDITIONING EQUIPMENT— Seattle, Wash.**

Bids will be opened 10 a.m., June 17, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing of parts for air-conditioning equipment, including air filters, frames, manometers and louvres. Specifications with above office.
PD 6-8

●**EARTH MOVING— Seattle, Wash.**

Bids will be opened 2 p.m., June 20, by Port of Seattle, 406 Bell St., Seattle, for clearing, earth moving, grading, draining, 16" water line alteration, rock surfacing, security fencing, miscellaneous utilities at Seatle Tacoma Airport. Specifications with above office. $50 deposit. 5% bid bond, cashier's check, or money order. Quantities: 75 acres clearing, grubbing; 15 acre topsoil removal; 1,700,000 c.y. earth moving; 12,000' of 6" to 18" concrete drains; 60 catch basins and manholes; 2,500' of split pipe gutter; relocation of 16" watermain; moving buildings; 98 ace soil stabilization; 7,300 sq. yd. crushed rock surfacing; 6,000' chain link fencing. Bids on completion and surfacing of runway extension will be called in 1958.
PD 6-8

▲**TRUNK SEWER— Seattle, Wash.**

Bids received 8 p.m., June 6, by Lake City Sewer Distrcit, 3206 E. 125th, Seattle, for construction of 3,550' of 8", 454' of 12", 200' of 18" and 6,990' of 30" pipe for a trunk sewer in ULID No. 12. Plans by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. LOW BIDS: West Coast Construction Co., Inc., 835 W. 48th, $279,925 (Alt. A), $237,770 (Alt. B); Harold Kaeser, 3629 34th, $349,175, $344,916; Valley Construction Co., 7722 Rainier, $348,916, $348,916. All of Seattle. DM 6-8. Previous report 5-31

FUEL PIPE LINE— Seattle, Wash.

It is possible that a fuel pipe line may be required to service jet planes according to Port of Seattle officials. The line might extend from a tank farm on Puget Sound to tanks at Des Moines to handle fuel supplies that would be greater than trucks could handle.
RC 6-11

▲**SEAWALL— Seattle, Wash.**

Bids received by King County Commissioners, 606 County-City Bldg., Seattle, for construction of an untreated timber and pile seawall adjacent to the H. A. Miller Road (S. 104th St.) on Duwamish Waterway. Bids opened June 10. LOW BIDS: American Pile Driving Co., Pier 2, Everett, $8,228; Larsen Construction Co., Colman Bldg., Seattle, $11,104; MacRae Brothers, 5900 1st Ave. S., Seattle, $11,505.
PD 6-11. Previous report 6-5

INDUSTRIAL DEVELOPMENT— Seattle, Wash.

Public hearing will be held 10 a.m., June 20, by Port of Seattle Commission, C. H. Carlander, secretary, in the Chamber of Commerce Bldg. Auditorium, 215 Columbia St., Seattle, for consideration of creating and establishing the Duwamish Industrial Development District, and for establishment of a comprehensive scheme of harbor improvements and industrial developments for this district.
PD 6-12

●**SPRINKLERS— Seattle, Wash.**

Bids will be opened 2 p.m., June 25, by University of Washington Board of Regents, Helen Hoagland, secretary, Room 203, Administration Bldg., campus, for installation of a fully automatic lawn sprinkler system in portions of site development of existing First Unit and Second Unit under construction of University Hospital, Division of Health and Sciences. Plans with Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle. $15 deposit. Certified checw, cashier's check, or 5% bid bond. Work will involve installation of 475 sprinkler heads.
PD 6-12

●**PILING REPAIR, REPLACEMENT— Seattle, Wash.**

Bids will be opened 10:30 a.m., June 21, by Department of the Army, room 300, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for repair and replacement of damaged and deteriorated fender piling at the terminal; Inv. No. TC 45-045-57-123B. Plans with above office. Bid bond 20%.
SP 6-12

●**PUMP INSTALLATION— Seattle, Wash.**

Bids will be opened 8 p.m., June 19, by King County Water District No. 75, L. W. Bundy, secretary, 19863 28th Ave. S., Seattle, for furnishing and installing 500 gal. per minute deep well turbine pump and motor, electrical controls, pump and control houses, fence, chlorinator, miscellaneous piping, fittings and appurtenances and connection to water system for Well No. 5 located at S. 240th St. about 550' east of 16th Place S., Seattle. Specifications with district office. Certified check 5%.

Quantities: 10'x10' control house, 8'x8' pumphouse, 840' of 7' chain link fence, 200' of 6" watermain.
PD 6-12

★**SPRINKLER SYSTEM— Seattle, Wash.**

Award to Grinnell Company of the Pacific, Elliott and Bay, Seattle, $1,490, by 13th Coast Guard District, 618 2nd Ave., Seattle, for installation of dry-pipe sprinkler system at Captain of The Port, Pier 70, Seattle; Bid No. FS-1614.
PD 6-12. Previous report 5-31

▲**LATERAL SEWERS (Contract A-1)— Seattle, Wash.**

Bids received by Lake City Sewer District, 3206 E. 125th St., Seattle, for construction of lateral sewers in ULID No. 12, under Contract A-1, to become an integral part of the sanitary sewer system of the district. Plans and specifications by Hill & Ingman, consulting engineers, 1728 E. Madison, Seattle. Bids opened June 10. BIDDERS: Hanson Construction Co., 12701 Palatine Ave., Seattle, $247,431; Matt Malaspina & Co., 1901 23rd S., Seattle, $268,684; Valley Construction Co., 7722 Rainier Ave., Seattle, and Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, $278,150 (joint venture); Frank Coluccio, 7778 Seward Park Ave., Seattle, $298,263.
SP 6-12. Previous report 6-4

★**POWER TRANSFORMER—Seattle, Wash.**

Award to General Electric Co., Dexter Horton Building, Seattle, $21,403, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, $21,403, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing a power transformer, 3740/4687 kva.
PD 6-12. Previous report 5-8

★**TRACTOR— Seattle, Wash.**

Award to Cascade Tractor Co., 3601 Empire Way, Seattle, $6,459 (includes $2,000 trade-in), by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing tractor with back hoe and front loader. PD 6-12. Previous report 5-11



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▲**GRADING, CLEARING, DRAINING—** **Seattle, Wash.**

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for grading, clearing, draining the extended Garfield Playfield. Bid sopened June 11. LOW BID: John Patricelli Construction Co., 1534 32nd S., Seattle,, $6,864; L. L. Newburn Construction Co., 6262 14th Ave. S., Seattle, $9,488.

PD 6-12. Previous report 6-1

● **GENERATOR—** **Sedro-Woolley, Wash.**

Bids to be opened 8 p.m., June 24, by City Council, City Hall, Sedro-Woolley, for furnishing, installing, wiring a gasoline motor driven standby generator set, 24 kw, 31.5 kva. Plans with James H. Reid & Associates, consulting engineers, 420 Bell, Edmonds. $10 deposit. Certified check, cashier's check or bid bond 5%. DC 6-8

● **SEWAGE PUMPING STATION—** **Spokane, Wash.**

Bids to be opened 9:30 a.m., June 27, by Arthur Meehan, commissioner of public works, City Hall, Spokane, for construction of a sewage pumping station at Cannon St. and Francis Ave., Spokane. Plans with city engineer. $10 deposit. Certified check 5%. Quantities: 250 c.y. structural concrete; 29,400 lb. reinforcing steel, 130 sq. yd. walks and drives; outside piping; three main pumps; standby power sytsem. DC 6-7

● **SPRINKLER SYSTEM, TOPSOILING—** **Spokane, Wash.**

Bids to be opened 2 p.m., P.S.T., June 26, by 13th Naval District, Bldg. 232, U. S. Naval Station, Seattle, for providing lawn sprinkler system, topsoiling, seeding, about 28,000 sq. ft. in areas of three buildings at U. S. Naval and Marine Corps Reserve Training Center in Spokane; Spec. No. 12210/57. Plans with above office. DM 6-8

★**CONCRETE BRIDGE—** **Stevenson, Wash.**

Award to Teller Construction Co., 845 N. Graham, Portland, $37,541 (prestressed design), by Skamania County Commissioners, John R. McDonald, chairman, Courthouse, Stevenson, for construction of concrete bridge over the North Fork, Washougal River. Plans by N.W. Haner & Associates, consulting engineers, 220 S.W. Alder, Portland. PD 6-8. Previous report 5-22

▲**PARKING LOT—** **Tacoma, Wash.**

Bids received June 5 by Metropolitan Park District, Tom Lantz, superintendent, 210 City Hall, Tacoma, for construction of a 300-car parking area at Yacht Club basin; a 22,000 sq. ft. second-story addition to the boathouse; a launching ramp and two-story boat elevator. Plans by Stewart & Iamberger, architects and engineers, 608 S. Oxford, Tacoma. LOW BIDS: Hart Construction Co., 3536 E. 11th, Tacoma, $324,613; Industrial Engineers and Contractors, Inc., 711 Middle Waterway, Tacoma, $329,956; Larsen Construction Co., Colman Bldg., Tacoma, $344,834. DM 6-7. Previous report 5-28

★**SANITARY SEWERS—** **Tacoma, Wash.**

Award to Underground Utilities, Tacoma, $9,370, by Board of Contracts and Awards, 204 City Hall, Tacoma, for construction of stanitary sewers in LID No. 1939, involving four city streets, in Tacoma.

PD 6-7. Previous report 5-21

● **SURFACING—** **Tacoma, Wash.**

Bids to be opened 10 a.m., June 18, by Pierce County Commissioners, courthouse, Tacoma, for construction of Day Island Road, Pierce County from the east side of N.P. Railroad opposite south end of Day Island to 27th and Grandview in University Place. Plans with Keith F. Jones, county engineer. $5 deposit. Certified check. Cashier's check 5%. Quantities: 87,447 c.y. excavation; 11,080 c.y. select borrow; 920 c.y. crushed stone surfacing; 658' concrete culvert pipe. DM 6-8

KAPOWSIN CREEK BRIDGE— **Tacoma, Wash.**

Bids rejected by John W. Sonntag, county clerk, Pierce County Courthouse, Tacoma, for construction of Kapowsin Creek Bridge No. 19185, involving the removal of portions of existing bridge, placing new concrete stringer and deck system and underpinning of one abutment in Pierce County; CRP No. 1546. Bids opened May 28. No further action is anticipated for the present.

PD 6-11. Previous report 5-16

● **SANITARY SEWER—** **Tacoma, Wash.**

Bids to be opened 11 a.m., June 17, by Board of Contracts and Awards, City Hall, Room 204, Tacoma, for construction of sanitary sewer from Treatment Plant on Cleveland Way to 11th St. and E. J St. in LID No. 1921. Plans with above office. DC 6-11

▲**ASPHALT CONCRETE PAVING, SEWERS, SIDEWALKS—** **Tacoma, Wash.**

Bids received by Board of Contracts and Awards, 204 City Hall, Tacoma, on four paving projects. Bids opened June 10 and were received for the following: LID No. 4607—asphaltic concrete pavement, storm sewer on S. I St. for four blocks. LID No. 4612—asphaltic concrete pavement, storm sewer, cement concrete sidewalks on various streets. LID No. 4618—asphaltic concrete pavement on S. 21st. LID No. 2260—cement concrete sidewalks on various streets. BIDDERS—LID 4607: Lige Dickson Co., 3515 S. Pine, $21,126; Woodworth & Co., 1200 E. D St., $20,988; Concrete Construction Co., 2015 Center, $23,250. LID 4612: Lige Dickson Co., $29,778; Woodworth & Co., $28,940; Concrete Construction Co., $32,532. LID 4618: Paine & Gallucci, 1521 S. Grant, $5,505; Concrete Construction Co., $6,549. LID 2260: George Madsen, 6420 6th Ave., $6,061; Concrete Construction Co., $6,729. All of Tacoma.

SP 6-11. Previous report 6-6

★**LADDER SAFETY EQUIPMENT—** **The Dalles Dam, Wash.**

Award to Safety Tower Ladder Co., 1024 Burbank Blvd., Burbank, Calif., $4,278, by Corps of Engineers, 628 Pittock Block, Portland, for ladder safety equipment fob The Dalles Dam, Wash.; CIVENG-35-026-57-241. Bids opened May 27.

WB 6-12. Previous report 5-15

WATER PIPELINE— **Tolt River, Wash.**

A pre-bid conference will be held by Seattle Board of Public Works, Roy W. Morse, chairman, at 1:30 p.m., June 11, in the Conference Room of the Associated General Contractors, 215 W. Harrison, Seattle, to discuss the proposed 30 mi. Tolt River pipeline project. Alternate bids for steel or reinforced concrete cylinder pipe will be called on the following quantities and sizes: 63,000' of 66"; 27,000' of 60". Bids called for steel pipe only will be called as follows: 37,000' of 54"; 26,000' of 30" high pressure. Pipe manufacturers and contractors are invited to attend the meeting. DM 6-7

★**STREET SURFACING—Vancouver, Wash.**

Award by Vancouver Housing Authority, McLoughlin Heights, Vancouver, for construction and surfacing of streets in Andersen Highlands—1, Leiser Crest—8, and Morrison Road, in McLoughlin Heights. AWARD: Fred W. Hardisty Co., 6921 E. Middle Way, Vancouver, $28,986. OTHER BIDS: Parker & Fuhrman, 11524 S.E. Foster Road, Portland, $31,158; Dorman Construction Co., Vancouver, $34,537. Bids received June 5.

WB 6-7. Previous report 5-28

● **SEAL COAT—** **Wapato, Wash.**

Bids to be opened 8 p.m., June 24, Lee McAuliffe, clerk, City Hall, Wapato, for nonskid seal coating on about 85,000 sq. ft. of city streets. Plans with above office and with Gray & Osborne, engineers, 228 S. 2nd, Yakima. $10 deposit. IG 6-12

■ **GRADING, BRIDGE—** **West Fork White River, Wash.**

Planholders announced for construction of 0.659 mi. grading and a 125' reinforced concrete bridge, Washington Forest Development Road Project, Snoqualmie 191-A, White Fork White River Road, Pierce County, Wash. Bids will be opened 10 a.m., June 21, by Bureau of Public Roads, R. N. Kellogg, acting regional engineer, 753 Morgan Bldg., Portland.

Planholders: Snook Bros., Box 687, Rainier, Ore.; Teeples & Thatcher, 8850 S.E. Otty Road, Portland; Wayne Construction Co., 3810 Stone Way, Seattle; Excavators, Inc., 5756 29th Ave. N.E., Seattle; Bona Fide Builders, Inc., 2430 E. 11th St., Tacoma.

WB 6-12. Previous report 6-5

▲**BREAKWATER—** **Willapa Bay, Wash.**

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of the Nahcotta Breakwater involving rock breakwater 1,820' long, with 6' crest, to elevation 15.0 above M.L.L.W. with approximately 1,370' of the breakwater being constructed in an east-west direction south of Lincoln St. dock, and 450' of breakwater in a northerly direction along Nahcotta Channel, Willapa Bay; CIVENG-45-108-57-73. Bids opened June 6.

Apparent low bids are: Smith Brothers, Inc., Box 96, Vancouver, $192,960; P. J. Anderson & Son, 13501 Aurora, and Stoen Construction Co., 2210 E. 95th, both of Seattle, $270,384 (joint venture); Quigg Brothers—McDonald, Inc., 1500 Riverside Ave., Hoquiam, $396,804. Engineers' estimate, $276,060. PD 6-7. Previous report 5-22

★**WATER HEATING PLANT, PIPELINE—** **Willard Fish Station, Wash.**

Award to James & Yost, 5910 N.E. Ainsworth St., Portland, $59,836, by U. S. Fish & Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, for construction of a water heating plant and related pipeline at the Willard Fish Cultural Station located about six mi. north of Cook in Skamania County, Wash.

WB 6-7. Previous report 6-1

IDAHO

★**CORRUGATED METAL PIPE—** **Boise, Idaho**

Award to Armco Drainage and Metal Products, Inc., 227 S. 3rd, Boise, $6,484, by Ted Cramer, state purchasing agent, 225 State House, Boise, for Req. No. 3407-6520 for corrugated metal pipe for the Highway Department. PD 6-8. Previous report 5-28

★**STREET PAVING, CURB, GUTTER—** **Coeur d'Alene, Idaho**

Award to Inland Asphalt Co., Box 4116, Station B, Spokane, $33,884 (Proj. 1), $28,034 (Proj. 2), by City Council, City Hall, Coeur d'Alene for two street improvement projects involving asphaltic concrete paving of College Drive, et al, (Proj. 1) and on Government Way, including curbs and gutters, (Proj. 2), at Coeur d'Alene.

PD 6-8. Previous report 5-31

▲**GUARD RAIL—** **Cottonwood AF Station, Idaho**

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of 2,025' of highway beam guard rail, including concrete posts, along access road at Cottonwood AF Station; ENG-45-108-57-143. Bids opened June 7.

A low bid of $6,826 was submitted by J. C. Benton & Son, Beaverton, Ore.

DM 6-12. Previous report 5-23

PUMPHOUSE, INTAKE STRUCTURE, DISCHARGE LINE— **Fort Hall Indian Reservation, Idaho**

Bids rejected by Bureau of Indian Affairs, Land Operations-Irrigation, Room 851, Interior Bldg., Portland, for construction of a pumphouse, intake structure and discharge line for the Portneuf Pumping Station, Michaud Irrigation Project, Fort Hall Indian Reservation on west banks of Portneuf River about eight mi. northwest of Pocatello, Idaho. New bid call will be issued soon for portion of work, including pumphouse, substation, sewer line and pile driving. The forebay, river works, road and yard grading and paving will be eliminated.

WB 6-12. Previous report 6-4

●RESERVOIRS, PUMPS, PIPE— Grangeville, Idaho

Bids to be opened 8 p. m., June 17, by City Council, City Hall, Grangeville, for construction of two 500,000-gal. concrete water storage reservoirs, furnishing and installing two booster pumps, 6" and 10" water mains and incidentals. Plans with city clerk. $10 deposit. DC 6-8

▲IRRIGATION WELLS— Hamer, Idaho

Bids received by Fish & Wildlife Service, Leo L. Laythe, regional director, 1001 N.E. Lloyd Blvd., Portland (Box 3737), for drilling and casing four fresh water irrigation wells at the Camas National Wildlife Refuge near Hamer, Idaho. BIDDERS: R. P. Cope, Idaho Falls, $11,120; Andrews Well Drilling Contractor, Idaho Falls, $15,008. Bids received June 5. WB 6-7. Previous report 5-21

■ACCESS FACILITIES— Lucky Peak Dam, Idaho

Planholders announced on access facilities involving excavation, base course, stockpiling in Springs Shores Park and Mores Creek Park areas at Lucky Peak Dam near Boise; CIVENG-45-164-57-80. Bids to be opened 2 p. m., June 17, by Corps of Engineers, Bldg. 602, City-County Airport, Walla Walla.

Planholders: J. Bacaloff Co., 6009 N.E. 60th, Portland, Ore.; Quinn-Robbins Co., 703 S. 16th, Boise; Howard K. Russell, Star Route, Payette; Asphalt Paving and Construction Co., Inc., 3206 Pleasanton Ave., Boise; MacGregor Triangle Construction Co., Box 4128, Boise; Wade Lahar Construction Co., Highway 62 N.E., Montain Home, Arkansas; E. H. Woolf, 4348 State, Boise; Rhodes & Austin, Route 3, Boise; Allington Construction, Box 1829, Salt Lake City, Utah. DM 6-12. Previous report 5-28

★TRACTOR— Moscow, Idaho

Award to Everett Will Tractor Co., 218 N. Main, Moscow, $2,991, by Ted Cramer, state purchasing agent, 225 State House, Boise, for requisition No. 81 for crawler type tractor for the State Fish and Game Department at Moscow. PD 6-8. Previous report 3-28

▲TAXIWAY LIGHTING FACILITIES— Mountain Home AFB, Idaho

Bids received by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of airfield taxiway lighting facilities at Mountain Home Air Force Base, Elmore County, Idaho; ENG-45-164-57-45. Bids opened June 6.

ONLY BID: Olson Electric Co., 710 W. 8th St., Vancouver, Wash., $116,872. Government estimate $135,305.

PD 6-7. Previous report 5-23

●BRIDGE CRANE— Pocatello, Idaho

Bids will be opened 3 p. m., June 25, by Bureau of Indian Affairs, Branch of Land Operations, 1001 N.E. Lloyd Blvd., P. O. Box 4097, Portland, for 15-ton, overhead trolley type bridge crane, fob Pocatello, Ida; Inv. LO-11-57-625. WB 6-7

★PAVING, CURB AND GUTTER— Pocatello, Idaho

Award announced by Pocatello City Commissioners, City Hall, Pocatello, for bituminous paving, curb and gutter work in various parts of an improvement district in Pocatello, consisting of Jones Drive, Delano Ave., et al. Bids opened June 5. AWARD: Brennan Construction Co., 718 S. 2nd St., Pocatello, $84,992. ONLY OTHER BID: Carl E. Nelson Construction Co., Wilson and Maple, Pocatello, $88,879.

SP 6-12. Previous report 5-9

●AIRPORT IMPROVEMENTS— Sandpoint, Idaho

Bids will be opened 8 p. m., June 28, by City Clerk, City Hall, Sandpoint, for construction of Class H airport improvements on the City-County Airport, Bonner County, Idaho, including excavation and surfacing. Standard CAA specifications with Superintendent of Documents, Washington, D. C. $3 deposit.

Quantities: 920 c.y. excavation; 2,170 c.y. aggregate sub-base; 4,732 gal. bituminous prime coat; 27,400 gal. bituminous surface treatment; 720 ton surface treatment aggregate; 310 ton cover aggregate; 90' corrugated metal culvert pipe. SC 6-11

●STREET IMPROVEMENTS— Sandpoint, Idaho

Bids will be opened 8 p. m., June 28, by City Council, City Hall, Sandpoint, for street improvements involving grading, gravel backfilling, curbing and surfacing with plantmix bituminous concrete, on 3rd Ave., Main St., et al, at Sandpoint. Specifications with superintendent of public works, City Hall, and with Arthur Tiggelbeck, Farmin Bldg., Sandpoint. $10 deposit. Certified check or bid bond 5%.

Bids will be accepted on one or all three of the following sections. SECTION 1: Grading and gravel backfilling and adjusting all manhole and catch basin tops. Quantities: 32,000 c.y. street excavation and disposal; 17,250 c.y. gravel backfill; 95,000 sq. yd. rolling backfill; 250,000 gal. sprinkling. SECTION 2: All curb construction. Quantities: 18,000' of 6"x12"x16" reinforced concrete curb. SECTION 3: Placing and rolling 2" cushion and 2' bituminous concrete surfacing. Quantities: 2,540 c.y. crushed cushion; 45,000 sq. yd. bituminous concrete surfacing. Paving will consist of 13" pit run gravel backfill, 2" crushed gravel cushion ¾" minus and 2" bituminous concrete surfacing including installation of reinforced concrete curb and adjusting of catch basins, manhole tops and miscellaneous items.

SC 6-11

MONTANA

●WATER MAIN— Billings, Mont.

Bids will be opened 10:30 a. m., June 25, by Yellowstone County Commissioners, Courthouse, Billings, for installation of 225' of water main in RSID No. 381, Billings. Plans and specifications with Sage Engineers & Land Planners, 706 Central Ave., Billings. Certified check 10%. EE 6-12

●WATER MAINS, GRADING— Billings, Mont.

Bids will be opened 11 a. m., July 2, by Yellowstone County Commissioners, Courthouse, Billings, for furnishing and installing 1,310' of 6" cast iron water mains with two standard hydrants, for grading and gravel-ing Phillip and Stone streets from Riverside Road to Millard St. in the Hamilton Subdivision, RSID No. 382, Billings. Plans with L. R. Sampson, district engineer, Courthouse, Billings. Certified check 10%.

EE 6-12

●ROAD MATERIALS— Billings, Mont.

Bids will be opened 5 p. m., June 25, in the office of city clerk, by City Council, City Hall, Billings, for purchase of 225,000 gal. asphalt and 10,000 gal. asphalt cement and for 7,000 ton plantmix asphalt surface course for use by the street department at Billings. Specifications with city clerk. Certified check or bid bond 5%. Separate bids for asphalt and asphalt cement and for plantmix asohalt. EE 6-12

SEWER SYSTEM— Butte, Mont.

(Estimated cost $2,825,000)

Plans announced by City Council, City Hall, Butte, for construction of a sanitary and storm sewer system to embrace the metropolitan area in Butte. SC 6-7

●EARTHWORK, STRUCTURES FOR DRAINS— Glendive, Mont.

Bid opening extended from June 11 to 10 a. m., June 25, by Bureau of Reclamation, Glendive, for earthwork and structures for open and closed drains 1-6-Q, 2-7-S, 2-3-K2 and 2-3-K3, in the counties of Custer, Prairie and Dawson near the towns of Glendive and Terry, Mont.; Spec. No. 600C-179.

SP 6-12. Previous report 5-21

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids to be opened 9:30 a. m., June 28, by Montana State Highway Commission, Helena, on 12 highway construction projects. Plans with above office.

ROAD, BRIDGE, MILES CITY - NORTH DAKOTA LINE ROAD—Grade, gravel surfacing, bituminous surface treatment, drain, construct one 57' treated timber bridge on 12.247 mi. in Fallon County; F 86(16).

Quantities: 649,334 c.y. excavation; 47,212 mi. yd. overhaul; 274,045 ton crushed gravel; 81,455 gal. liquid asphalt, same for emulsified asphalt; 200' steel beam guard rail.

GREAT FALLS-FORT BENTON ROAD WORK—Plantmix oiling on 10.322 mi. in Cascade and Choteau counties; F 145(11).

Quantities: 28,956 ton crushed gravel; 20,591 gal. liquid asphalt; 47,603 gal. emulsified asphalt; 347,495 gal. asphalt cement.

PABLOE - KALISPELL ROAD WORK — Grade, drain 4.831 mi. in Lake County, F 191(14)U1.

Quantities: 441,660 c.y. excavation; 86,901 mi. yd. overhaul; 1,784' reinforced concrete pipe culvert; 122' galvanized iron pipe.

OVERPASS—One 214' steel and concrete overpass over NPRR tracks, and one 172' box culvert on Clark Fork on Upper Nine Mile Road, Silver Bow County; USG 213(2).

Quantities: 127,262 lb. reinforcing steel; 785 c.y. concrete; 1,220 c.y. excavation.

ROAD—HELENA - FLESHER PASS - LINCOLN ROAD—Grade, drain 6.234 mi. in Lewis and Clark County; S 2(13)U2.

Quantities: 533,787 c.y. excavation; 19,114 mi. yd. overhaul; 2,134' reinforced concrete pipe culvert.

ST. XAVIER - HARDIN ROAD WORK — Grade, gravel surface, bituminous surface, drain 8.436 mi. in Big Horn County; S 26(6)U1.

Quantities: 291,727 c.y. excavation; 439,795 mi. yd. overhaul; 105,071 gal. asphalt; 4,304' reinforced concrete pipe.

BRIDGES—ST. XAVIER-HARDIN ROAD—Three treated timber pile bridges, widen one treated timber pile bridge in Big Horn County; S 26(6)U2.

Quantities: 63,066 Mbm treated and 2.834 Mbm untreated timber; 2,280' timber piles; 1,407 lb. structural steel.

LEDGER-EAST AND WEST ROAD WORK —Reshape, gravel surface 6.527 mi. in Pondera County; S 107(5).

Quantities: 1,654 mi yd overhaul 25,202 ton crushed gravel

ARMELLS CREEK-HAYS-HARLEM ROAD WORK—Grade, gravel surface, bituminous

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surface treatment, drain 12624 mi. in Blaine County; S 187(3)U1.

Quantities: 980,539 c.y. excavation; 59,427 mi. yd. overhaul; 226,516 ton crushed gravel; 151,530 gal. asphalt; 5,180' pipe culvert.

BRIDGE—ARMELLS CREEK-HAYS-HARLEM ROAD — Three treated timber pile bridges in Blaine County; S 187(3)U2.

Quantities: 48,789 Mbm treated and 1,455 Mbm untreated timber; 1,340' piles; 563 lb. structural steel; 378 c.y excavation.

BRIDE—TERRY-BROCKWAY ROAD—One 825' steel and concrete bridge over Yellowstone River near Terry, Prairie County; S 302(13).

Quantities: 216,729 lb. reinforcing steel; 1,647' steel bridge rail; 2,372 c.y. concrete; furnish 202,356 lb. steel bearing piles; 5,125 c.y. excavation.

BUILDINGS — BILLINGS — Construction combined shop and office building, 160'x60' and 42'x85'.

Plans on this project with Loners & Stroebe, architects, 418 N. 25th, Billings. $25 deposit. DM 6-11

●CONTROL TOWER REINFORCEMENT— Helena, Mont.

Bids will be opened 7:30 p.m., June 24, by City Commissioners, Civic Center Bldg., Helena, for reinforcement of airport control tower at the Municipal Airport north of Helena. Plans with Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena. $10 deposit. Certified check 10%. LS 6-12

●■PAVING, UTILITIES— Helena, Mont.

Bids will be opened 7:30 p.m., June 24, by W. J. Leary, acting city manager, Civic Center Bldg., Helena, for street paving, utility connections and sanitary sewer construction in SID Nos. 202, 204 and 205 in Helena. Plans and specifications with Morrison-Maierle, Inc., consulting engineers, 910 Helena.

Planholders: Helena Sand & Gravel Co., Broadwater, Helena; Utility Builders, Inc., Box 1154, Great Falls; Nilson-Smith Construction Co., Box 1147, Great Falls; Robertson & Cave, Inc., Box 1488, Great Falls; McLaughlin, Inc., Box 1824, Great Falls; Northwestern Engineering Co., Rapid City, S. Dak.; Inland Construction Co., Box 416, Miles City; Long Construction Co., Box 1291, Billings (SID 202 only).

Quantities—SID 202: 57,320 sq. yd. excavation above subgrade; 650 c.y. excavation below subgrade; 6,470 ton hot plantmix bituminous surface course; 92,000 gal. penetration asphalt; 22,600' combined curb and gutter; 2,500' concrete gutter; 650' sanitary sewer pipe; 420' storm drain pipe. SID 204, SID 205: 16,090 sq. yd. excavation above subgrade; 300 c.y. excavation below subgrade; 2,650 ton hot plantmix bituminous leveling course; 4,065' vertical curb; 6,180' concrete gutter; 2,060' storm drain pipe; alternate for 7,460 ton 1½" crushed gravel base. LS 6-12. Previous report 1-9

●SANITARY SEWER— Kalispell, Mont.

Bids will be received July 1 by City Council, City Hall, Kalispell, for construction of a 300' sanitary sewer in the alley of Block 216, SID No. 291. No bids were received at the June 3 bid opening. Plans with H. J. Hunt, city clerk, above address. Certified check or bid bond 10%. DM 6-12. Previous report 6-1

STORM SEWER— Laurel, Mont.
(Estimated cost $184,336)

Petitions are being circulated in the City of Laurel by City Council, City Hall, Laurel, concerning voting on a bond issue to finance storm sewer construction at Laurel. SC 6-7

★RUNWAY RECONSTRUCTION— Missoula, Mont.

Award to Union Construction Co., Hammond-Arcade Bldg., Missoula, $361,921, by Missoula County Airport Commissioners, Missoula, for reconstruction of the 7,050' east-west runway at the airport. DM 6-12. Previous report 5-8

▲SURFACING— Missoula, Mont.

A low bid of $7,680 was submitted by Dillsworth Construction Co., Inc., Box 1005, Helena, when bids were opened June 4 by U.S. Forest Service, 1036 Federal Bldg., Missoula, for 3.1 mi. of pit run surfacing on Trask-Lowland Road No. 435 in Deerlodge National Forest, Jefferson County, Mont.; Bid No. 102-57. Seven bids were submitted, the high figure being $13,800. DM 6-12. Previous report 5-24

RR BRIDGE SUPERSTRUCTURE— Noxon, Mont.

Work has been started by Kansas City Bridge Co. on steel erection for the superstructure of the lower crossing railroad bridge below Noxon on the Noxon Rapids Dam project. The bridge will contain 16 120-foot spans. DC 6-7

WYOMING

●POWER, TELEPHONE LINES— Casper, Wyo.

Bids to be opened 10 a.m., M.S.T., July 16, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of about 3.1 mi. of 4,160-volt power line with joint constructed 6-wire telephone line; conversion of 6 mi. 2-wire phone line to 4-wire; construction of 2.9 mi. of 2-wire phone line; dismantle 13 mi. 2-wire phone line, Missouri River Basin Project, Glendo Unit, Oregon Trail Division, in sections of Alcova, Red Hill and Fremont Canyon, Pathfinder, near Casper, Wyo.; Spec. No. DC-4930. Plans with Denver office. DM 6-12

●STATE HIGHWAY PROJECTS— Cheyenne, Wyo.

Bids to be opened 10:30 a.m., June 24, by State Highway Commission, State Office Bldg., Cheyene, for highway construction. Plans with above office.

GRADING CONTRACT, FAIP No. I-091-1 (1) Unit 1—Grading, draining, special embankment, miscellaneous work on 6.985 mi. four-lane divided highway on the Evanston-Ft. Bridge Road from Ft. Bridger west to Bigelow Bench, Uinta County.

Quantities: 997,000 c.y. excavation; 318,200 c.y. mi. haul 125 ton asphaltic material.

GRADING CONTRACT, FAIP No. I-091-4 (1) Unit 1—Grading, draining, select material surfacing, four structural plate pipe and pipe arch culverts on 5.026 mi. four-lane divided construction on the Rawlins-Sinclair Road, Carbon County.

Quantities: 1,261,400 c.y. excavation; 430,200 c.y. mi. haul; 2,190' standard reinforced concrete pipe; 123,600 ton select material surfacing.

STRUCTURE CONTRACT FAIP No. I-091-4(1)—Construction of twin three-continuous plate girder span bridges over Sugar Creek on Rawlins-Sinclair Road, Carbon County.

Quantities: 306 c.y. class A concrete; 513 c.y. class B concrete; 165,020 lb. reinforcing steel; 284,260 lb. structural steel.

PORTLAND CEMENT CONCRETE PAVEMENT, FAIP No. I-223(14), I-223(16) Unit 2; I-223(17) Unit 2; F-134(5), F-223(20)—Paving 6.623 mi. of four-lane divided highway including interchange ramps on Wheatland-Cheyenne, and grading, draining, select material surfacing, curb and gutter, irrigation sprinkler system, portland cement concrete paving on four-lane divided highway on 1.393 mi. of Central Avenue connection, Laramie County.

Quantities: 11,900 c.y. excavation; 780 c.y. mi. haul; 282,440 sq. yd. concrete pavement; 13,880 sq. yd. reinforced concrete pavement.

ASPHALTIC PAVEMENT FAIP No. I-223 (14), I-223(15), I-223(16) Unit 2; I-223(17), Unit 2; F-134(5), F-223(20), F-0167(3)—Crushed gravel base course, bituminous stabilized base course, plantmix surface course on 11.094 mi.; base course surfacing, plantmix surface course on 6.623 mi. shoulders; base course surfacing, plantmix surface course on 4.368 mi. service roads, all located on Wheatland-Cheyenne Road, Laramie County.

Quantities: 3,100 c.y. excavation; 350 c.y. mi. haul; 2,700 ton select material surfacing; 50,895 ton crushed gravel base course; 77,600 ton plantmix base course; 50,410 ton plantmix surface course; 6,995 ton asphaltic material.

STRUCTURE CONTRACT FAIP No. I-225 (5) Unit 2—Two separation structures consisting of one four-continuous WF girder spans over McKinley St. and One four-continuous WF girder spans over Center St. on F St. section of Casper Urban System, Natrona County.

Quantities: 968 c.y. class B concrete; 396,440 lb. structural steel; 140,670 lb. reinforcing steel.

PLANTMIX FAIP No. F-010-4(1)—Grading, draining, crushed gravel base course, plantmix surface course, stone chip seal coat on 3.691 mi. Jackson-Moran Road, Teton County.

Quantities: 265,000 c.y. excavation; 112,000 c.y. mi. haul; 129,000 T mi. haul; 24,000 ton select material surfacing; 17,200 ton crushed gravel base course; 8,400 ton plantmix surface course.

PAVING, FAIP No. F-034-5(1)—Grading, draining, storm sewer, curb and gutter, median paving, base course surfacing, plantmix surfacing, stone chip seal coat on 0.970 mi. Greybull streets, Big Horn County.

Quantities: 57,010 c.y. excavation; 62,000 c.y. mi. haul; 347 ton asphaltic material; 25,050 ton select material surfacing; 51,770 T mi. haul; 3,800 ton plantmix surface course; 1,350 sq. yd. concrete median paving.

SURFACING — Grading, draining, base course surfacing, sand seal coat, one structural plate pipe, two structural plate pipe arches, four structural plate stockpiles on 7.633 mi. Gillette-Savageton Road, Campbell County.

Quantities: 260,000 c.y. excavation; 30,000 c.y. mi. haul; 368,000 T mi. haul surfacing material; 16,000 ton select material surfacing; 355 ton asphaltic material.

SURFACING, FAIP No. S-1002(1)—Grading, draining, base course surfacing, surface treatment (inverted peneration type), three structural plate pipes on 6.098 mi. Sussex-Linch Road, Johnson County.

Quantities: 434,500 c.y. excavation; 68,200 c.y. mi. haul; 63,000 ton select material surfacing; 40.8 c.y. concrete; 2,240 lb. reinforcing steel; 34,160 lb. structural steel; 15,000 ton crushed gravel base course; 171,000 T mi. haul surfacing material; 330 ton asphaltic material.

PLANTMIX, FAIP No. S-1205(1)—Grading, draining, base course surfacing, plantmix surface course, stone chip seal coat on 5.110 mi. Aubur south to Nield String Road, Lincoln County.

Quantities: 166,000 c.y. excavation; 11,300 c.y. special embankment; 140,000 c.y. mi. haul; 104,000 T mi. haul surfacing material; 590 ton asphaltic material; 17,800 ton select material surfacing; 6,150 ton plantmix surface course.

SURFACING, FAIP No. S-2200(1)—Base course surfacing, stabilized base course surfacing, stone chip seal coat on 10 mi. Gooseberry Creek Road, Washakie County.

Quantities: 29,100 ton crushed gravel base course; 97,100 T mi. haul surfacing material; 925 ton asphaltic material.

SURFACING, State Project No. SC-CFM 4360—Base course surfacin' 7.42 mi. Big Badger Creek Road, Sheridan County.

Quantities: 20,000 ton crushed scoria base course; 60,000 T mi. haul surfacing material.

ROADMIX, State Project No. SC-CFM 4361 Unit 2—Oil treatment by road mix method, crushed sand-gravel seal coat 9 mi. Lingle-Veteran Road, Goshen County.

Quantities: 7,200 ton crushed gravel surfacing; 42,600 T mi. haul surfacing material; 107,000 sq. yd. processing; 430 ton asphaltic material.

SURFACING—State Project No. SC-CFM 4404—course surfacing, crushed sand-gravel seal coat 11.288 mi. Palmer Canyon Road, Platte County.

Quantities: 15,000 ton crushed gravel base course; 345 ton asphaltic material; 55,400 T mi. haul surfacing material.

SURFACING—State Project No. SC-CFM 4500—Draining, base course surfacing 10 mi. Cheyenne River - Roxson Road, Niobrara County.

Quantities: 4,350 ton crushed gravel base course; 450 ton crushed gravel surfacing; 90 ton asphaltic material; 2,506' laying corrugated metal pipe.

PLANTMIX, State Project No. SC-CFM

4530—Base course surfacing, plantmix surfacing course, sand seal coat 2.352 mi. Boulder-Big Sandy Road, Sublette County.

Quantities: 5,000 c.y. pit run gravel base course; 4,000 c.y. mi. haul 2,200 ton plantmix surface course; 26,000 T mi. haul surfacing material; 210 ton asphaltic material.

SHOP BUILDING, State Project No. 4342—Highway maintenance building 122'x81' at Kemmerer, Lincoln County.

BRIDGE—State Project No. 4444—Excavation and construction of one three-continuous reinforced concrete slab span bridge and approaches, one bituminous coated siphon, two welded steel flumes 1.351 mi. waste drain ditch on Lingle-Barnes Road, Goshen County.

Quantities: 40,000 c.y. excavation; 193 c.y. concrete; 28,130 lb. reinforcing steel; 4,790 lb. structural steel. DM 6-8

UTAH

●EARTHWORK, PIPE LINE, STRUCTURES— Ogden, Utah

Bids to be opened 10 a.m., M.S.T., July 17, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for earthwork, 4.2 mi. of pipe lines, concrete structures for trunkline 10 (West Farmington) and trunkline 18.8 (Woods Cross), Davis Aqueduct near Ogden, Davis County, Utah; Spec. No. DC-4927. Plans with above office. Bid bond 10%. Quantities: 111,300 c.y. excavation; 455 c.y. concrete in structures; 883 c.y. concrete in reservoir lining; 2,013 bbl. cement; 149,000 lb. reinforcement bars; 27,000 lb. steel pipe, fittings. Completion time 330 days. DM 6-11

PARKING TERRACE—Salt Lake City, Utah

Working drawings underway for construction of a 110'x210' 500-car parking terrace adjacent to the Auerbach Department Store at State and Broadway in Salt Lake City. Plans by Ashley T. Carpenter, architect, Crandall Bldg., Salt Lake City. Plans will be complete in September for seven floors of the structure and all 14 levels will be complete by June of 1958. GH 6-7

▲STATE HIGHWAY PROJECTS— Salt Lake City, Utah

Bids received by Utah Road Commission, Salt Lake City, for the following highway construction projects on which bids opened June 4.

SURFACING—BRIGHAM CITY: Construction of 0.468 mi. of 3½" plantmix bituminous surfaced road on U. S. 30-A (Main St.) betweent 2nd South and 1st North St., Box Elder County; State Proj. No. 1587. LOW BIDS: Waterfall Construction Co., 1685 Wall Ave., Ogden, $99,385; Hilton & Carr Construction Co., Box 572, Ogden, $106,709; Fife Construction Co., Brigham City, $108,347.

BITUMINOUS SURFACING — Plantmix surfacing 11.601 mi. on U.S. 89 between Pigeon Hollow Junction and Mt. Pleasant and a portion of Spring City main street, Sanpete County; FAP F-027-5(2) and S.P. 1588. LOW BIDS: L. A. Young Construction Co. & Vernal Sand & Gravel Co., Richfield, $628,615; Jack B. Parson Construction Co., Smithfild, $632,934; W. W. Clyde & Co., Springville, $649,109.

SP 6-11. Previous reports 511-, 5-25

●STATE HIGHWAY PROJECTS— Salt Lake City, Utah

Bids to be opened 2 p.m., June 18, by Utah State Road Commission, State Capitol, Salt Lake City, for highway construction. Plans with above office. $2 deposit. Certified check, cashier's check or bid bond 5%.

ROADMIX, BRIDGE, STATE ROAD 86—Roadmix bituminous surfacing and concrete structure over 20' span for 3.751 mi. from junction of State Road No. 86 and 87, Duchesne County, FASP S-0252(1).

Quantities: 414 ton bituminous material; 41,600 ton gravel; 717 c.y. concrete; 80,000 c.y. roadway excavation.

ROADMIX, STATE ROAD 88 — Roadmix bituminous surfacing from Ouray north for 10.8 mi., Uintah County, FASP S-0264(1).

Quantities: 1,214 ton bituminous material; 115,500 ton gravel; 148,500 c.y. excavation.

PLANTMIX, STATE ROAD 171—Plantmix bituminous surfacing for 3.3 mi. on 33rd S. between State and 23rd E., Salt Lake County; State Project 1566.

Quantities: 18,000 ton plantmix bituminous material; 48,000 sq. yd. portland cement stabilized base course.

PLANTMIX, BRIDGE, U. S. 56 and 80—Plantmix bituminous surfacing and concrete structure over 20' span for 1.266 mi. between Springville and Mapleton Bench, Utah County; FAP F-020-1(1).

Quantities: 16,500 ton plantmix bituminous surfacing; 1,102 ton bituminous material; 71,500 c.y. borrow; 1,168 c.y. concrete. DM 6-11

ALASKA

●AIRFIELD REHABILITATION— Nome, Alaska

Bids to be opened 10 a.m., June 27, by Civic Aeronautics Administration, Federal Bldg., Anchorage, for rehabilitation of the airfield at Nome; Inv. No. 57-92. Plans with above office. $20 deposit. Work to be bid on three schedules. Sched. 1—sub-surface drainage. Quantities: 33,100' of 6" to 18" corrugated metal pipe drains; 400' of 42" and 600' of 24" corrugated metal pipe culverts; 30,000 ton crushed rock backfill; flood gates, manholes, spillways, ditches. Sched. 2—Produce, place, compact about 60,000 ton crushed rock sub-base on runways, stockpile 36,000 ton crushed rock aggregates. Sched. 3 — Install high intensity runway lighting system on two runways and control panel, duct under runways, erect 62' beacon tower, 25'x44' regulator substation building, install standby power plant, equipment, asrial and underground control line and cable. DC 6-12

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

June 17—Boring—School Addition 6-5
June 17—Drain—Heating System Replacement 5-29
June 17—Portland—Maintenance Building 6-5
June 17—Portland—Painting Warehouses 6-11
June 19—Bandon—Garage 6-5
June 19—Eugene—Administration Building 6-8
June 20—Portland—X-Ray Room Addition 5-23
June 20—Portland—Kitchen Equipment 6-5
June 20—Portland—Plant Addition 6-11
June 21—Ashland—Move, Rehabilitate Houses 6-4
June 24—Eugene—Lighting, Oil Burner 6-7
June 24—Portland—Alterations, Insulation 6-5
June 25—Portland Building Repairs 6-7
June 26—Bend—Hospital Addition 6-8
June 26—Portland—Bridlemile Grade School 6-1
June 26—Portland—School Alterations 6-1
June 26—Portland—School Addition 6-1
June 27—Portland—Shower Modification 6-6
July 1—Eugene—Courthouse 5-17
July 2—Damascus—School Addition 6-12

WASHINGTON

June 17—Everett—Heater, Furnace Installation 5-22
June 17—McChord AFB—Army Building Painting, Fencing 6-4
June 17—McChord—Flight Training Building 5-24
June 17—Okanogan—Armory 5-25
June 18—Belfair—Elementary School 5-29
June 18—Bremerton—Painting 5-25
June 18—Ephrata—Residences, Utilities 6-12
June 18—Fort Lewis—Permanent Family Housing 5-17
June 18—Paine AFB—Remote Control System 6-4
June 18—Renton—Auto-Freight Building 6-8
June 18—Richland—Sprinkler, Alarm Systems 5-29
June 18—Toppenish—Truck Garage, Service Station 6-12
June 18—Yakima—Air Conditioning 6-1
June 19—Camp Hanford—Buildings, Utilities 6-11
June 19—Connell—Garage, Storage Building 5-16
June 19—New Dungeness Light Station—Wood Cabinets 6-11
June 19—Paine AFB—Hangar Doors—Repairs 6-7
June 19—Seattle—Floor Covering 6-5
June 19—Tacoma—Painting 6-11
June 19—Tacoma—Park Improvements 6-12
June 20—Bremerton—Armory Painting 6-12
June 20—Fort Lewis—Building Additions 6-5
June 20—Geiger AFB—Jet Test Cell 5-28
June 21—Port Orchard—Catholic Church, Classrooms 6-12
June 21—Spokane—Training Center, Shop 6-1
June 21—Spokane—Dairy Plant 6-12
June 24—Bremerton—Building Addition 6-11
June 24—Concrete—School Additions 6-6
June 24—Everett—Electrical Outlets 6-11
June 24—Seattle—Roof Coating 6-7
June 25—Everett—Medical Clinic 6-12
June 25—Pasco—Post Office 6-11
June 25—Port Angeles—Shop, Equipment Shed 5-22
June 25—Seattle—Elephant House Additions 6-12
June 26—Puyallup—Pilaster Reinforcing 6-12
June 26—Seattle—Arbor Heights School Addition 6-8
June 26—Seattle—New Vault, Building Alterations 6-6
June 26—Seattle—City Light Building Addition 5-24
June 26—Seattle—City Light Building Addition (Electrical, Mechanical) 5-3
June 26—Seattle—Administration Building 6-12
June 27—Burlington—School 6-8
June 27—Ephrata—Building Painting 6-7
June 27—Richland—Building Addition 6-12
July 2—Camas—Armory Addition 6-8
July 9—Anacortes AF Station—Gap Filler Facility 6-12

IDAHO

June 17—Lewiston—Air Conditioning 6-12
June 18—Kellogg—Grade, High School Addition 6-12
June 19—Idaho Falls—Maintenance Shop Addition 6-4

June 20—Idaho Falls—Buildings, Utilities 5-29
June 21—Idaho Falls—SPERT 2 Facility 5-24
June 25—Grangeville—Nursing Home 5-21
June 28—Moscow—Dormitory 6-12

MONTANA

June 17—Billings—Lighting, Painting, Building Alterations 6-1
June 17—Havre—Post Office Lighting 6-4
June 18—Gore Field—Warehouse Addition 6-11
June 18—Lolo—School Addition 6-12
June 19—Great Falls—Administration Building 6-5
June 19—Great Falls—Maintenance Painting 6-11
June 20—Fairfield—Painting 6-11
June 20—Glasgow—Dial Exchange Building 6-12
June 20—Helena—Incandescent, Fluorescent Lamps 6-5
June 20—Roy—Church Unit 6-11
June 21—Great Falls—Crippled Children's Clinic 6-5
June 24—Dillon—Lighting Fixtures 6-7
June 24—Worden—High School Addition 6-12
June 26—Brockway—Gap Filler Facility 6-12
June 28—Billings—Administration, Cafeteria Building 6-11
July 2—Helena—Entrance Modification, Paving 6-4

WYOMING

June 18—Cody—Post Office Work 6-12
June 18—Evanston—Hospital Buildings 5-29
June 21—Thermopolis—Hospital 5-21
June 25—Riverton—Memorial Hospital Addition 5-31
June 27—Anchor Dam Government Camp—Residence, Service Facilities 6-6
June 27—Worland—Gymnasium 6-8
July 9—Grand Teton National Park—Apartment Houses, Amphi-Theater 6-8
July 10—Rawlins—High School 6-12

UTAH

June 20—Ogden—Army Training Center 5-24
June 20—Roy—Church Unit 6-11
June 27—Bountiful—Elementary School Addition 6-12

ALASKA

June 18—Bethel, Kotzebue, Nome—Communications Centers 5-28
June 19—Anchorage—Hangar, Pumphouse, Apron 5-28
June 20—Elmendorf—Laboratory 6-8
June 20—Juneau—Airport Building Addition 6-6
June 25—Anchorage—POL Building Facilities 6-8
June 26—Petersburg—Warehouse, Garage Building 6-4
June 26—Sitka—School 6-4

ENGINEERING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

June 17—Fern Ridge Reservoir—Drill, Develop Well 6-5
June 17—Portland—Clearing, Power Line 6-5
June 18—Ashland—Powerplant, Switchyard 5-7
June 18—Cottage Grove—Concrete Bridge 6-6
June 18—Portland—Curbs, Sidewalks 6-6
June 19—Grants Pass—Fish Screen Structure 5-7
June 19—Hills Creek Reservoir—Clearing 6-5
June 19—Salem—Water Distribution System 6-5
June 20—Clatskanie—Fire Pump Conversion 6-5
June 20—Oak Grove—Pumping Station 6-11
June 21—Reedsport—Transmission Line 5-29
June 21—Salem—Water System 6-5
June 21—Springfield—Transformer 6-11
June 25—McKinley—Transmission Line 6-11
June 25—Portland—Drainage Modifications 6-6
June 26—Portland—Grading 6-12
June 26—Toledo—Transformer Additions 6-12
June 27—Cougar Reservoir—Clearing 6-12
June 28—Oakridge—Concrete Bridge 6-12
July 2—Lookout Point Dam—Radial Drill 6-12
July 9—Ashland—Derrick 5-25
July 9—Green Springs Power Plant—Derrick 5-25

WASHINGTON

June 17—Bellevue—Standpipe 6-8
June 17—Ephrata—Crawler Tractor 6-12
June 17—Everett—Corrugated Metal, Concrete Pipe 6-5
June 17—Kelso—Sewers 6-7
June 17—Othello—Ditcher 6-11
June 17—Seattle—Air-Conditioning Equipment 6-8
June 17—Seattle—Grading, Surfacing 5-25
June 17—Seattle—Lateral Sewers (Contract B-1) 6-5
June 17—Seattle—Sprinkling System 6-5
June 17—Tacoma—Sanitary Sewer 6-11
June 17—Wenatchee—Fishway Pumps 5-22
June 18—Coulee Dam—Water Main Lining 5-28
June 18—Coulee Dam—Street Lighting Systems 5-24
June 18—Goldendale—Substation 6-5
June 18—Ilwaco—Septic Tank 6-7
June 18—Moses Lake—Pumphouse 6-7
June 18—Olympia—State Highway Projects 6-1
June 18—Olympia—Bridge Substructure, Superstructure 5-31
June 18—Pasco—Airport Lighting 6-8
June 18—Pullman—Storm Sewers 6-5
June 18—Tacoma—Surfacing 6-8
June 19—Kingston Control Area—Test Well 6-6
June 19—Richland—Dock Shelter, Pipeline 5-23
June 19—Seattle—Water Tanks 6-5
June 19—Seattle—Communication Ducts, Manholes 6-5
June 19—Seattle—Pump Installation 6-12
June 20—Camp Hanford—Roads, Sidewalks, Utilities 5-31
June 20—Olympia—Bridge 6-7
June 20—Olympic National Park—Water Supply System 5-28
June 20—Seattle Defense Area—Fuel Tanks, Piping, Drainage, Surfacing 5-29
June 20—Seattle—1957 Earth Moving 6-8
June 20—Seattle—Lateral Sewers (Contract B-2) 6-5
June 21—Kingston Area—Modification of Transformer Structures 6-5
June 21—Seattle—Piling Repair, Replacement 6-12
June 21—West Fork White River—Grading, Bridge 6-5
June 24—Covington Substation—Site Development 6-11
June 24—Everett—Piling 6-8
June 24—Fort Lewis—Test Well 6-12
June 24—McChord AFB—Power Line Relocation 6-12
June 24—Nooksack River—Bridge 6-8
June 24—Seattle—Lateral Sewers (Contract B-3) 6-5
June 24—Seattle—Fire Protection System 6-11
June 24—Sedro-Woolley, Generator 6-8
June 24—Vancouver—Transmission Line Tower Relocation 5-31
June 24—Wapato—Seal Coat 6-12
June 25—Ephrata—Drains, Pumping Plant 6-7
June 25—McChord AFB—Water Supply, Roads 6-5
June 25—Richland—Communications System 6-4
June 25—Seattle—Underground Utilities Alteration, Additions 6-6
June 25—Seattle—Clearing School Site 6-5
June 25—Seattle—Steam Generating Unit 5-28
June 25—Seattle—Sprinklers 6-12
June 26—Ephrata—Sewer, Water Systems, Roadwork 6-8
June 26—Seattle—Standpipe Roof 6-8
June 26—Spokane—Sprinkler System, Topsoiling 6-8
June 27—Ephrata—Drain System 6-7
June 27—Mercer Island—Watermain 6-12
June 27—Oak Harbor—Engine Test Facility 6-11
June 27—Spokane—Sewage Pumping Station 6-7
June 28—Bellevue—Sewer Collection System, Sewage Treatment Plant Additions 6-8
June 28—Chelan Falls—Tank Painting 6-5
July 2—Nisqually Area—Grading 6-8

IDAHO

June 17—Grangeville—Reservoir, Pump, Pipe 6-8
June 17—Lucky Peak Dam—Access Facilities 5-28
June 20—Michaud Flats—Earthwork, Structures 5-16
June 25—Pocatello—Bridge Crane 6-7
June 28—Sandpoint—Street Improvements 6-11
June 28—Sandpoint—Airport Improvements 6-11

MONTANA

June 18—Billings—Curb, Gutter, Sidewalk 5-31
June 20—Missoula—Clearing, Grading, Draining 6-5
June 24—Helena—Paving, Utilities 6-12
June 24—Helena—Control Tower Reinforcement 6-12
June 25—Billings—Water Main 6-12
June 25—Billings—Road Materials 6-12
June 25—Glendive—Earthwork, Structures for Drains 6-12
June 25—West Glacier—Water, Sewer Lines 6-6
June 26—West Glacier—Bituminous Surfacing 6-6
June 28—Helena—State Highway Projects 6-11
July 1—Kalispell—Sanitary Sewers 6-12
July 2—Billings—Water Mains, Grading 6-12

WYOMING

June 24—Cheyenne—State Highway Projects 6-8
July 16—Casper—Power, Telephone Lines 6-12

UTAH

June 17—Little Mountain—Test Air Heater 6-5
June 18—Casper—Oil Storage Tanks 5-18
June 18—Salt Lake City—State Highway Project 6-11
June 27—Ogden—Control Equipment Assembly 5-25
July 17—Ogden—Earthwork, Pipe Line, Structures 6-11

ALASKA

June 18—Eklutna-Palmer—Transmission Line 5-16
June 19—Lena Point—Water Supply 5-25
June 20—Big Delta, Fairbanks, Northway—Water Supply 5-28
June 21—Elmendorf AFB—Steam Lines 6-4
June 26—Petersburg—Surfacing, Sewers 5-28
June 27—Nome—Airfield Rehabilitation 6-12
July 2—Chilkat River—Bridge 6-5
July 2—Ketchikan—Dredging, Breakwater 6-6

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.

DERRICK
BIDS CLOSE JULY 9
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4920) will be received at Denver, Colorado, until July 9, 1957, for furnishing one 50-ton stiffleg derrick, complete with hoisting and slewing equipment and electrical controls for Green Springs Power Plant, Rogue River Basin Project, Oregon. Delivery is desired within 300 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 3, Colorado. W. A. Dexheimer, Commissioner.
5816—6-1

BRIDGE, GRADING
BIDS CLOSE 10 A. M., JUNE 21
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 7, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a. m. on June 21, 1957, for furnishing the material and performing the work for constructing 0.659 Miles Grading and a 125-foot Reinforced Concrete Bridge, Washington Forest Development Road Project Snoqualmie 191-A, West Fork White River Road, Snoqualmie National Forest, Pierce County, Washington, involving 13 Acres Clearing and Grubbing; 15,200 Cu. Yds. Excavation; 233 Cu. Yds. Concrete; 48,700 Lbs. Reinforcement Steel; 34 Each Timber Piles, Driven; 257 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, 753 Morgan Building, Portland, Oregon. Regional Engineer.
5828—6-8

POWERPLANT
BIDS CLOSE JUNE 18
Green Springs, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4905) will be received at Building No. 234, Camp White, 9 miles north of Medford, Oregon, until June 18, 1957, for furnishing labor and materials for Green Springs powerplant, switchyard and penstock, Rogue River Basin Project, Oregon. Location 11 miles southeast of Ashland, Oregon. Principal items are 48,000 cu. yds. excavation; 194,700 pounds reinforcement; 2,400 cu. yds. concrete; installing 50-ton stiffleg derrick; furnishing and installing penstock and surge tank; installing and testing one 23,500 horsepower hydraulic turbine; and other work. Completion time 660 days. For particulars, address Bureau of Reclamation, P. O. Box 937, Boise, Idaho; P. O. Box 386, Camp White, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5793—5-18

TRANSMISSION LINE
BIDS CLOSE JUNE 18
Anchorage, Alaska
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4916), will be received at Anchorage, Alaska, until June 18, 1957, for furnishing labor and materials for Relocating part of Eklutna-Palmer 115-kv Transmission Line, Eklutna Project, Alaska. Location near Palmer, Alaska. Principal items are constructing approximately 9 miles of 115-kv wood-pole transmission line; and other work. Completion time 180 days. For particulars, address Bureau of Reclamation, P. O. Pouch No. 5, Star Route, Anchorage, Alaska; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5804—5-25

FISH SCREEN STRUCTURE
BIDS CLOSE JUNE 19
Camp White, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4910) will be received at Camp White, Oregon, until June 19, 1957, for furnishing labor and materials for fish screen structure for Savage Rapids Dam, Grants Pass Project, Oregon. Location near Grants Pass, Oregon. Principal items are 1,450 cu. yds. excavation; 580 cu. yds. concrete; furnishing and installing 24-inch diameter steel discharge pipe; and other work. Completion time 640 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.
5794—5-18

PUMPING PLANTS
BIDS CLOSE JUNE 25
Ventura River Project, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4918) will be received at Denver, Colorado, until June 25, 1957, for furnishing fourteen motor-driven, horizontal, centrifugal-type pumping units, with capacities ranging from 3.2 cfs to 16 cfs and with heads ranging for 220 feet to 900 feet, for five pumping plants of the Ventura River Project, California. Delivery is desired within 365 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5807—5-25

SUBSTRUCTURE, SUPERSTRUCTURE FOR NARROWS BRIDGE
BIDS CLOSE 10 A.M., JUNE 18
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Director of Highways of the State of Washington at the Transportation Building, Olympia, Washington, until 10:00 A.M. Tuesday, June 18, 1957, for the construction of the concrete substructure and superstructure of the Port Washington Narrows Bridge across the Port Washington Narrows on Secondary State Highway No. 21-B in the City of Bremerton, Kitsap County, Washington, and will then and there be opened and publicly read. Bids received after the time fixed above for opening will not be considered.

This improvement consists of the following elements:

1. Constructing 16 reinforced concrete bridge piers and abutments and aproximately 312 linear feet of T-beam structure, 793 linear feet of box girder structure and 609 linear feet of lightweight concrete deck slab and sidewalk.
2. The principal approximate quantities involved are:

Common Excavation	20,800 Cu. Yds.
Structure Excavation above Elevation 101	4,900 Cu. Yds.
Structure Excavation below Elevation 101	9,400 Cu. Yds.
Shoring and Cribs	Lump Sum
Riprap in Place	3,900 Cu. Yds.
T-Beam Superstructure in Place (Approximately 1,090 Cu. Yds Class "A" Concrete)	Lump Sum
Box Girder Superstructure in Place (Aproximately 4,960 Cu. Yds. Class "A" Concrete)	Lump Sum
Lightweight Concrete Slab, Sidewalks and Median in Place (Aproximately 960 Cu. Yds. Lightweight Concrete)	Lump Sum
Portland Cement	960 Sacks
Class "H" Concrete in Place	11,300 Cu. Yds.
Class "B" Concrete in Place	6,970 Cu. Yds.
Class "A" Concrete in Place	140 Cu. Yds.
Superstructure Steel Reinforcing Bars in Place (Approximately 1,812,000 Pounds	Lump Sum
Steel Reinforcing Bars in Place	1,386,000 Pounds
Furnishing and Placing Anchor Bolts	6,560 Pounds
Downspouts and Drain Pipes in Place	Lump Sum
Bridge Drains in Place	20 Only
Water Line Hangers in Place	11 Only
Expansion Pit Frames and Covers in Place	2 Only
Telephone Conduit, 3½" "Korduct", in Place	10,100 Linear Feet
Telephone Conduit Expansions in Place	42 Only
Electrical Items in Place	Lump Sum
Navigation Light Brackets in Place	12 Only
Standard Bridge Railing Type No. 2 in Place	3,417 Linear Feet
Painting Steel Superstructure	Lump Sum

Prequalification of bidders is required. Maps, Plans and specifications for the concrete substructure and superstructure of the Port Washington Narrows Bridge 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 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 City Engineer in the City of Bremerton, the Chapter Offices of the Associated General Contractors of America in Seattle, (Mt. Pacific), Spokane, Tacoma, and Portland, Oregon, and the office of the District Engineers of the Department of Highways where they may be inspected. Soil samples and a copy of the soils report are on file in the office of the City Engineer in the City of Bremerton where they may be inspected.

W. A. Bugge, Director of Highways
E. C. HUNTLEY, Chairman

5821—6-1, 8

EARTHWORK, STRUCTURES

BIDS CLOSE JUNE 20

Rupert, Idaho

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4915) will be received at Ruper, Idaho, until June 20, 1957, for furnishing labor and materials for Earthwork and Structures for Laterals from Main Canal East, Main Canal West, and Wells in Area 6, Michaud Flats Project, Idaho. Location near American Falls, Idaho. Principal items are 200,000 cu. yds. excavation; 530 cu. yds. concrete in structures; furnishing and laying 12,140 lin. ft. concrete pipe; and other work. Completion time 280 days. For particulars, address Bureau of Reclamation, Rupert, Idaho; or Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.
5805—5-25

PENITENTIARY BUILDING

BIDS CLOSE 3 P.M., JULY 9

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed proposals will be received by the Director, Department of General Administration, General Administration Building, Olympia, Washington, until 3:00 P.M., Pacific Standard Time, Tuesday, July 9, 1957, and will be opened immediately thereafter for the construction of an Admissions and Security Building at the Washington State Penitentiary, Walla Walla, Washington, for the State of Washington by and through the Department of General Administration. Separate bids will be received for the General Construction, Prison Equipment, Mechanical Work and Electrical Work.

Drawings, specifications and form of contract documents for this work may be obtained from the office of John W. Maloney, A.I.A., Architect, 754 Central Building, Seattle 4, Washington.

The drawings, specifications and form of contract documents may be examined at the Office of the Director, Department of General Administration; Associated General Contractors, Tacoma, Spokane and Seattle; at the Spokane Construction Council, Spokane Hotel, Spokane, Washington; at the Office of John W. Maloney, Architect, 754 Central Building, Seattle; and Plan Center, 702 West Walnut, Yakima, Washington.

A deposit of Fifty Dollars ($50.00) for drawings and specifications will be required from each bidder. This deposit will be returned to him upon the return of the drawings and specifications in good condition to the Architect's Office.

The Director, Department of General Administration, reserves the right to accept or reject any or all proposals and to waive informalities.

LLOYD K. NELSON, ACTING DIRECTOR
Department of General Administration
Olympia, Washington
5826—6-8

WATER LINE AND LINING

BIDS CLOSE 10 A.M., P.S.T., JUNE 18

Ephrata, Washington

NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, May 27, 1954. Sealed bids, in single, (Specifications No. 117C-447) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division Avenue and C Street NW, Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, June 18, 1957, and then publicly opened for furnishing labor and materials and performing all work for Lining Existing Steel Water Mains and Furnishing and Installing Cast-Iron Water Supply Line, Coulee Dam, Washington. Bids will be considered on either or both of the 2 schedules. The work will include—Schedule No. 1: 225 cu. yds. excavation and backfill of pipe trenches; removing and replacing 1100 lin. ft. lawn sod; clearing 15 obstructions in existing mains; cleaning, lining and testing existing 8-inch steel invasion pipe mains; Schedule No. 2, 100 cu. yds. excavation and backfill of pipe trenches; removing and replacing 100 lin. ft. lawn sod; and furnishing and laying 305 lin. ft. 12-inch diameter cast-iron water main. Time allowed for completion will be 60 days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P.O. Box 368, Ephrata, Washington.
5824—6-8

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., JUNE 18

Olympia, Wash.

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, June 18, 1957, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvemnts 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 11 inclusive.

The improvements for which bids will be received follow:

1. Surfacing, Constructing a Cement Treated Base, Paving with Type I-1 Asphaltic Concrete and Installing Eight Illumination Systems on 5.556 miles of Primary State Highway No. 2 in Spokane County, PINES ROAD TO GREENACRES — PAVING, FAP No. I-002-6(25), involving about 20,120 cubic yards of Common Excavation, 690 cubic yards of Solid Rock Excavation, 63,400 tons of Selected Roadway Borrow, 75,780 tons of Crushed Stone Surfacing, 2,810 cubic yards of Crushed Cover Stone and Mineral Aggregate, 613 tons of Asphalt Cement, 36,940 tons of Asphaltic Concrete, 12,710 barrels of Portland Cement, 45,800 tons of CTB Aggregate, 11,350 tons of Blending Sand, 146 cubic yards of Concrete, 33,400 pounds of Steel Reinforcing Bars, 7,945 linear feet of Cement Concrete Curb, 9,455 linear feet of Cement Concrete Gutter, 2,300 linear feet of Precast Traffic Curb, 221 linear feet of Corrugated Metal Pipe, 3,655 linear feet of Chain Link Fence, 2,857 linear feet of Beam Guard Rail, 198 Guide Posts, 8 lump sum bids for Installation of Illumination Systems and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Surfacing and Paving with Cement Concrete and Type I-1 Asphaltic Concrete on 3.583 miles of Primary State Highway No. 2 in King County, MIDDLE CROSSING OF SNOQUALMIE RIVER TO CAMP MASON, FAP No. I-002-1(15), involving about 1,020 cubic yards of Common Excavation, 4,400 cubic yards of Solid Rock Excavation, 19,050 tons of Selected Roadway Borrow, 13,520 tons of Crushed Stone Surfacing, 45 tons of Asphalt Cement, 310 cubic yards of Crushed Cover Stone and Mineral Aggregates, 7,180 tons of Asphaltic Concrete, 57,910 square yards of Cement Concrete Pavement, 50 cubic yards of Concrete, 854 linear feet of Asphaltic Shoulder Curb, 153 linear feet of Beam Guard Rail, 58 Guide Posts and other items. Minimum Wage Rates for this project have been predetermined by law and are set forthin the bid proposal.
3. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on 2.320 miles of Secondary State Highway No. 6-A in Stevens County, PARK RAPIDS TO OLSEN CREEK, FAS No. S-0283(1) and State Project, involving about 43 acres of Clearing, 100,410 cubic yards of Common Excavation, 6,180 cubic yards of Solid Rock Excavation, 19,000 tons of Selected Roadway Borrow, 59,935 tons of Crushed Stone Surfacing, Crushed Cover Stone, Maintenance Rock and Mineral Aggregates, 70 tons of Asphalt Cement, 466 linear feet of Corrugated Metal Pipe, 262 linear feet of Corrugated Structural Plate Pipe-Arch, 481 linear feet of Beam Guard Rail, 35 Guide Posts, 635 cubic yards of Riprap and other items.
4. Grading, Surfacing and Paving with Type I-1 Asphaltic Concrete on 1.913 miles of Secondary State Highway No. 2-H in Spokane County, (DOLLAR ROAD TO ARGONNE ROAD, FAS No. US-0284(1), involving about 3,500 cubic yards of Common Excavation, 7,900 tons of Crushed Stone Surfacing, 41 tons of Asphalt Cement, 240 cubic yards of Crushed Cover Stone, 12,550 tons of Asphaltic Concrete, 740 linear feet of Beam Guard Rail and other items.
5. Surfacing, Constructing a Bituminous Surface Treatment Road Mix and Paving with Type I-1 Asphaltic Concrete on 18.18 miles of State Highways Nos. 7, 2 and 2-F in Douglas and Grant Counties, WINCHESTER WASTEWAY TO NAYLOR, ET AL, FAB Nos. F-031-1(6) and F-028-2(4) and State Project, involving about 16,935 cubic yards of Crushed Stone Surfacing, Crushed Cover Stone and Mineral Aggregates, 615 tons of Asphalt Cement, 14,250 tons of Asphaltic Concrete and other items.
6. Clearing, Draining, Grading and Surfacing with Light Bituminous Surface Treatment on 0.664 mile of Secondary State Highway No. 3-B in Yakima County, WHITE SWAN VICINITY, FAS No. S-0269(2), involving about 11,900 cubic yards of Common Excavation and Borrow, 5,650 tons of Selected Roadway Borrow, 5,700 tons of Crushed Stone Surfacing and Ballast, 25 tons of Asphalt Cement, 200 cubic yards of Crushed Cover Stone, 23 cubic yards of Concrete, 5,160 pounds of Steel Reinforcing Bars, 490 linear feet of Corrugated Metal Pipe, 1,419 linear feet of Concrete Pipe, 75 linear feet of Beam Guard Rail and other items.
7. Constructing a Light Bituminous Surface Treatment on 11.740 miles of Primary State Highway No. 8 in Klickitat County, MARYHILL EAST, FAP No. F-047-1(3), involving about 379 tons of Asphalt Cement, 3,290 cubic yards of Crushed Cover Stone and other items.
8. Clearing, Draining, Grading, Surfacing and Paving with Type I-1, Asphaltic Concrete on 3.200 miles of Pierce County Roads, EATONVILLE CUT-OFF AND MUCK-KAPOWSIN HIGHWAY, FAS Nos. S-1319(1) and S-0390(3), involving about 1,970 cubic yards of Unclassified Excavation, 15,860 cubic yards of Common Borrow, 21,670 cubic yards of Selected Roadway Borrow, 2,785 cubic yards of Crushed Stone Surfacing and Mineral Aggregates, 55 tons of Asphalt Cement, 8,750 tons of Asphaltic Concrete, 17,315 linear feet of Asphaltic Concrete Gutter and Spillway, 1,069 linear feet of Concrete Pipe, 40 linear feet of Corrugated Metal Pipe-Arch, 218 Guide Posts, 1,800 linear feet of Beam Guard Rail and other items.
9. Clearing, Draining, Grading, Surfacing and Constructing a Reinforced Concrete Slab Bridge on 0.270 mile of a Grays Harbor and Pacific County Road, COUNTY LINE BRIDGE, FAS No. S-0573(2), involving about 4,970 cubic yards of Unclassified Excavation, 1,220 cubic yards of Selected Roadway Borrow, 460 cubic yards of Crushed Stone Surfacing, 338 cubic yards of Concrete, 77,200 pounds of Steel Reinforcing Bars, 365 linear feet of Steel Bridge Rail, 306 linear feet of Steel Piling and other items.

10. Constructing a Reinforced Concrete Girder Bridge on 0.030 mile of a Spokane County Road, LATAH CREEK BRIDGE, FAS No. S-0469(1), involving about 403 cubic yards of Concrete, 73,600 pounds of Steel Reinforcing Bars, 307 linear feet of Standard Bridge Railing, 840 linear feet of Concrete Piling and other items.
11. Surfacing with Light Bituminous Surface Treatment on 7.500 miles of a Klickitat County Road, GOLDENDALE-KLICKITAT-LYLE ROAD, FAS No. S-0958(3), involving about 9,270 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 278 tons of Asphalt Cement and other items.
12. Constructing a Storm Sewer on 0.746 mile of Primary State Highway No. 11 in Adams County, CITY OF RITZVILLE, a State Project, involving about 550 cubic yards of Crushed Stone Surfacing, 60 tons of Bituminous Mix, 4,412 linear feet of Concrete Pipe and other items.
13. Paving with Type I-1 Asphaltic Concrete on 3.701 miles of Primary State Highway No. 2 in King County, OLALLIE CREEK TO SUMMIT, a State Project, involving about 400 cubic yards of Crushed Stone Surfacing, 1,190 tons of Asphaltic Concrete, 5,530 linear feet of Asphaltic Concrete Curb, 362 linear feet of Corrugated Metal Pipe and other items.
14. Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on Primary State Highway No. 2 in Kittitas County, MIDWAY VICINITY, a State Project, involving about 144,000 tons of Crushed Materials.
15. Stockpiling Crushed Stone Surfacing, Maintenance Rock and Mineral Aggregates on Primary State Highway No. 12 in Pacific County, SOUTH BEND VICINITY, a State Project, involving about 9,350 tons of Crushed Materials and other items.
16. Cleaning and Painting Six Bridges on State Highways Nos. 8, 12, 1-N and 1-R in Skamania, Lewis, Wahkiakum and Cowlitz Counties, WIND RIVER BRIDGE, ET AL, a State Project, involving about 215 hours of Sand Blast Cleaning and 6 lump sum bids for Cleaning and Painting.
17. Cleaning and Painting Three Bridges on State Highways Nos. 9 and 13-A in Grays Harbor County, QUINAULT RIVER BRIDGE NO. 9/410, ET AL, a State Project, involving about 158 hours of Sand Blast Cleaning and 3 lump sum bids for Cleaning and Painting.
18. Cleaning and Painting Four Bridges on State Highways Nos. 15-C and 16 in Chelan and Okanogan Counties, WENATCHEE RIVER BRIDGE, ET AL, a State Project, involving 4 lump sum bids for Cleaning and Painting.

E. C. HUNTLEY, Chairman
W. A. BUGGE, Director of Highways

5825—6-1, 8

ADMINISTRATION BUILDING
BIDS CLOSE 2 P.M., P.S.T., JUNE 26
Seattle, Washington
NOTICE TO CONTRACTORS

Notice is hereby given that the South Central School District No. 406, 14208 42nd Ave. So., Seattle 88, Washington, will receive sealed bids up to 2:00 P.M., P.S.T., June 26, 1957, at 14208 42nd Ave. So., Seattle, Washington, at which time all bids will then and there be opened and publicly read aloud in Room 71 of Foster Jr.-Sr. High School at 42nd Ave. So. and So. 144th St. for the construction of a new 2,000 sq. ft. Administration Office. It will be one story with a concrete slab, lightweight block walls and a frame roof with built-up roofing.

Each bid shall be in accordance with the plans, specifications, and other contract documents now on file with Ralph H. Burkhard, A.I.A., 2120 S.W. 152nd Street, Seattle 66, Washington, where copies may be obtained upon furnishing a deposit of $15.00 for each set. Deposit will be refunded upon the return of plans and specifications in good condition on the above date or the submission of a bona fide bid accompanied by the plans and specifications.

Each bid shall be made out on a bid form to be obtained from the Architect at 2120 S.W. 152nd Street, Seattle 66, Washington.

Each bid must be accompanied by a certified check, Cashier's Check, or a satisfactory bid bond in favor of South Central School District No. 406 executed by the bidder and a surety company in an amount equal to 5 per cent of the bid.

Each proposal shall be sealed and addressed to Frank Horsfall, Clerk of the Board of South Central School District No 406, and the name of the project plainly written on the outside of the package.

The South Central School District No. 406 reserves the right to reject any or all bids and to waive minor informalities.

No bidder may withdraw his bid after the hour set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty days.

Dated this 10th day of June, 1957.

Signed: FRANK D. HORSFALL.

5835—6-12, 18, 25

NURSING HOME
BIDS CLOSE 10:30 A.M., P.S.T., JUNE 25
Grangeville, Idaho
NOTICE TO CONTRACTORS

Sealed bids in duplicate for the construction of the Idaho County Nursing Home at Grangeville, Idaho will be received at the office of the Board of Idaho County Commissioners at the Idaho County Court House, Grangeville, Idaho, Room No. 6 until 10:30 A. M. Pacific Standard Time, Tuesday, June 25, 1957, and then at said office publically opened and read aloud.

The Board of Idaho County Commissioners reserves the right to waive any informality in, or to reject any or all bids.

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.

Each bid must be accompanied by a certified check, cashier's check or a bid bond issued by a bonding company licensed to do business in the locality of the project, in form furnished by the Architect, in an amount not less than five per cent (5%) of the Base Bid.

Drawings, specifications, and forms of contract documents may be obtained at the office of Walker, McGough & Trogdon, Architects, A.I.A., West 1023 Riverside Avenue, Spokane, Washington, or viewed at the office of the County Auditor, Idaho County Court House, Grangeville, Idaho.

Each prime contractor shall submit a plan deposit of $50.00 per set of contract documents with the maximum of two sets per contractor.

Plan deposits will be refunded providing that drawings and specifications are returned within 30 days and in good condition. Forms PHS 142, 145, 146, 147, 148, need not be returned.

The building is a brick veneer structure, with a composition roof, steel window-wall units, partial basement of reinforced concrete, slab on grade with composition flooring, interior partitions of plaster and glazed masonry units, acoustic tile and plaster ceilings, ceramic tile floors and walls in some areas, commercial type kitchen, miscellaneous hospital equipment, an elevator, and a hot water heating combined with an air distribution system. Estimated construction cost $189,000.00.

The General, Mechanical and Electrical work will be performed under separate prime contracts operating concurrently.

Secretary
Board of Idaho County Commissioners
Grangeville, Idaho

5814—5-25; 6-1, 8, 15, 22

GRADING
BIDS CLOSE 10 A. M., JUNE 26
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 13, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 26, 1957, for furnishing the material and performing the work for constructing 0.842 mile of graded road on a lump sum basis, on Oregon Timber Acess Road Project BLM 25-2-15-A, Miller Creek Road, Bureau of Land Management — Roseburg District, Douglas County, Oregon. The approximate quantities are as follows: 6.36 Acres Clearing and Grubbing; 25,800 Cu. Yds. Unclassified Excavation; 3,000 Cu. Yds. Selected Borrow for Topping; 244 Lin. Ft. 18" Culvert Pipe; 48 Lin. Ft. 24" Culvert Pipe and 64 Lin. Ft. 108" Structural Plate Pipe. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. R. N. Kellogg, Acting Regional Engineer.

5836—6-15

GRADING
BIDS CLOSE 10 A.M., JULY 2
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, June 11, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on July 2, 1957, for furnishing the material and performing the work for constructing 3.123 Miles Grading, Mt. Rainier National Park Project 1-B10, Nisqually Entrance Road, Lewis & Pierce Counties, Washington, involving 47 Acres Clearing; 38 Acres Grubbing; 261,000 Cu. Yds. Excavation; 1,024,000 Sta. Yds. Overhaul, 2,300 Lin. Ft. Culvert Pipe, 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, 753 Morgan Building, Portland, Oregon. R. N. Kellogg, Acating Regional Engineer.

5831—6-15

REINFORCED CONCRETE BRIDGE
BIDS CLOSE 10 A.M., P.S.T., JUNE 24
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed bids for construction of North Fork Nooksack River Bridge (reinforced concrete) on Wells Creek Road #403 approx. one-half mile from State Highway #1, Whatcom County, Mt. Baker National Forest, Washington, will be received until 10:00 a.m. PST June 24, 1957 by the Regional Supply Officer, P. O. Box 4137, 729 NE Oregon, Portland, Oregon. Bids may be secured from him of the Forest Supervisor, Post Office, Bellingham, Washington.

5832—6-11

STREET IMPROVEMENTS
BIDS CLOSE 10 A.M., P.S.T., JUNE 26
Petersburg, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-241, Street Improvements, Petersburg, Alaska. May 23, 1957, Street Improvements, Project Aaa. 50-A-241, Petersburg, 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, June 26, 1957, 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 2723, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works Room 309, Federal Bldg., Ketchikan, 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, Wash.; Portland Chapter, Suite 112,

Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Avenue, Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Ore. 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 the 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 percent 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: STREET IMPROVEMENTS, Project Aaa. 50-A-241, Petersburg, Alaska consisting of the following items of work: 3,049 l.f. 6", 8" and 10" asbestos cement sewer pipe, 659 l.f. 12" and 18" BTCMP Culverts, 9 each standard manholes, 431 l.f. concrete curb and gutters, 120 c.y. rock riprap, 4.6 sq. yd. concrete sidewalk, 2.30 miles of fine grading subgrade and 4,513 c.y. crushed aggregate base course. 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.
5818—5-29; 6-4, 11

REMOVE PILING, DRIVE NEW PILING
BIDS CLOSE 8 P.M., JUNE 24
Everett, Washington
NOTICE TO CONTRACTORS

Sealed bids will be recived by the PORT OF EVERETT at the Port Office, Pier 1, Everett, Washington until 8:00 P.M., June 24, 1957, for the removal of approximately 60 existing piling and the driving of approximately 80 piling at the 14th Street Small Boat Harbor. Said bids will then and there be opened and publicly read aloud.

Plans and specifications may be examined at the Port Office or at the office of James H. Reid & Associates, and a set thereof obtained upon a deposit of $10.00.

Each bid shall be accompanied by a bid bond, certified check or cashier's check made payable to the Port of Everett in amount not less than five per cent (5%) of the amount of the bid, as a guarantee that the bidder shall execute the contract in conformity with the contract documents if it be awarded to him, and shall provide surety bond or bonds as specified therein within five (5) days after notification of the award of contract to the bidder.

The Port of Everett reserves the right to reject any or all bids and to waive irregularities or informalities in the bid or in the bidding.

No bidder may withdraw his bid after the hour set for the opening thereof, or before award of contract, unless said award is delayed for a period exceeding thirty (30) days.

Tom McCutchan, Manager
Port of Everett

5834—6-11

REINFORCED CONCRETE BRIDGE
BIDS CLOSE 11 A.M., P.S.T., JULY 2
Juneau, Alaska
NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10. Date: May 31, 1957, Juneau, Alaska. Sealed bids, in single copy, for furnishing all labor, equipment, and materials and performing all work for the Chilkat River Bridge, Federal Aid Project No. F-095-5(1), Haines Highway, Territory of Alaska, described herein will be received until 11:00 a.m., P.S.T., July 2, 1957, in Room 319, Federal Building, Juneau, Alaska, and then publicly opened. This project, located 24 miles north of Haines, Alaska, is construction of a 500'x24' I-beam bridge consisting of ten 50' spans. The structure will have a reinforced concrete deck with steel angle and channel railing. The abutments and piers are to be concrete supported on 10 BP steel piles. Stage construction will permit the existing timber structure to serve as a detour bridge before being removed. The following work is involved: excavation for structures, 100 cu. yds.; structural steel piles, 10BP42, furnished 3,750 lin. ft.; 10BP42 structural steel piles, driven 79 each; splices 6 each; pile core stoppers 75; class A concrete 549.7 cu. yds.; reinforcing 87,880 lbs.; structural steel, furnished, fabricated and erected 156,840 lbs.; dismantling the existing bridge. 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. Unsuccessful bidders will be required to return plans and specifications. E. H. Swick, Regional Engineer.
5833—6-15

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A. M., June 28
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 9:30 a.m. on June 28, 1957. The proposals will be publicly opened and read immediately thereafter.

1. **F 86(16)**—Grade, gravel surfacing, bituminous surface treatment, drain and construction of one 57.0' treated timber bridge on 12.247 miles on the Miles City-North Dakota Line Road in Fallon County, involving about 649,045 tons crushed gravel; 15,177 M gals. watering; 2,608 units rolling; 81,455 gals. liquid asphalt; 81,455 gals. emulsified asphalt; 3,679 lin. ft. corrugated metal pipe culvert; 156 lin. ft. structural plate pipe culvert; 772 lin. ft. relay pipe culverts; 15.899 MBM treated timber; 0.861 MBM untreated timber; 380 lin. ft. treated timber piles; 200 lin. ft. steel beam guard rail; all L. sum removal of existing structure and maintaining traffic; and other items. Project to be completed in 250 calendar days.

2. **F 149(11)**—Plant-mix oiling 10.322 miles on the Great Falls-Fort Benton Road in Cascade and Chouteau counties, involving about 28,956 tons crushed gravel; 40 hours watering; 78 units rolling; 20,591 gals. liquid asphalt; 47,603 gals. emulsified asphalt; 347,495 gals. asphalt cement; all L. sum furnish and maintain water plant. Project to be completed in 90 calendar days.

3. **F 191(14)U1**—Grade and drain 4.831 miles on the Pablo-Kalispell Road in Lake County, involving about 441,660 cu. yds. excavation; 344 cu. yds. gravel backfill; 86,091 mi. yds. overhaul; 6,175 M gals. watering; 823 units rolling; 122 lin. ft. galvanized iron pipe; 300 lin. ft. structural plate pipe culverts; 1,784 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; all L. sum clearing and grubbing; and other items. Project to be completed in 250 calendar days.

4. **USG 213(2)**—Construction of one 214.5' steel and concrete overpass over the Northern Pacific Railway tracks and one 172.0' box culvert on the Clark Fork on the Upper Nine Mile Road in Silver Bow County, involving about 625 cu. yds. excavation; 127,262 lbs. reinforcing steel; 785 cu. yds. concrete; 595 cu. yds. structure excavation; 22 each prestressed beams; and 431.5 lin. ft. bridge rail. Project to be completed by June 30, 1958.

5. **S 2(13)U2**—Grade and drain 6.234 miles on the Helena-Flesher Pass-Lincoln Road in Lewis and Clark County, involving about 533,787 cu. yds. excavation; 112 cu. yds. riprap; 537 cu. yds. gravel backfill; 19,114 mi. yds. overhaul; 7,977 M gals. watering; 156 lin. ft. corrugated metal pipe culverts; 225 lin. ft. structural plate pipe culverts; 2,134 lin. ft. reinforced concrete pipe culverts; 44 lin. ft. relay pipe culverts; and other items. Project to be completed in 150 calendar days.

6. **S 26(6)U1**—Grade, gravel surfacing, bituminous surface treatment and drain 8.436 miles on the St. Xavier-Hardin Road in Big Horn County, involving about 291,727 cu. yds. evcavation; 990 cu. yds. riprap; 118 cu. yds. gravel backfill; 439,795 mi. yds. overhaul; 117,402 tons crushed gravel; 6,696 M gals. watering; 1,132 units rolling; 52,382 gals. liquid asphalt; 52,689 gals. emulsified asphalt; 561 lin. ft. corrugated metal pipe culverts; 4,304 lin. ft. reinforced concrete pipe culvert; 263 lin. ft. relay pipe culverts; 520 FBM lumber for headgates; and other items. Project to be completed in 200 calendar days.

7. **S 26(6)U2**—Construction of 3 treated timber pile bridges and the widening of one treated timber pile bridge on the St. Xavier-Hardin Road in Big Horn County, involving about 68.066 MBM treated timber; 2.834 MBM untreated timber; 2,280 lin. ft. treated timber piles; 1,407 lbs. structural steel; all L. sum removal of existing structure and maintaining traffic; all L. sum revision of existing structure and maintaining traffic. Project to be completed by May 31, 1958.

8. **S 107(5)**—Reshaping and gravel surfacing 6.527 miles on the Ledger-East and West Road in Pondera County, involving about 827 cu. yds. binder; 1,654 mi. yds. overhaul on binder; 25,202 tons crushed gravel; 922 M gals. watering; 234 units rolling; 52 hours blading; and other items. Project to be completed in 80 calendar days.

9. **S 187(3)U1**—Grade, gravel surfacing, bituminous surface treatment and drain 12.624 miles on the Armells Creek-Hays-Harlem Road in Blaine County, involving about 980,539 cu. yds. excavation; 59,427 mi. yds. overhaul; 226,516 tons crushed gravel; 19,185 M gals. watering; 2,978 units rolling; 75,765 gals. liquid asphalt; 75,765 gals. emulsified asphalt; 4,968 lin. ft. corrugated metal pipe culverts; 212 lin. ft. structural plate pipe culverts; 89 lin. ft. relay pipe culverts; all L. sum clearing and grubbing; all L. sum removal of existing structure; and other items. Project to be completed in 450 calendar days.

10. **S 187(3)U2**—Construction of 3 treated timber pile bridges on the Armells Creek-Hays-Harlem Road in Blaine County, involving about 48.789 MBM treated timber; 1.455 MBM untreated timber; 1.340 lin. ft. treated timber piles; 563 lbs. structural steel; 378 cu. yds. unclassified excavation; and all L. sum removal of existing structures and maintaining traffic. Project to be completed by April 30, 1958.

11. **S 302(13)**—Construction of one 825.0' steel and concrete bridge over the Yellowstone River near Terry on the Terry-Brockway Road in Prairie County, involving about 216,729 lbs. reinforcing steel; all L. sum structural steel; 1,647.0 lin. ft. steel bridge rail; 2,372.5 cu. yds. concrete; 5,125 cu. yds. structure excavation; 202,356 lbs. furnishing steel bearing piles; 4,053 lin. ft. driving steel bearing piles; all L. sum test piles; 36 each floor drains; all L. sum shoring and cribs; and other items. Project to be completed by August 31, 1959.

12. **SMP 003-0323-0142**—The work contemplated consists of providing all labor, materials and equipment for construction and entire completion of a combined office and shop building (160'x60' shop and 42'x85'8" office) at Billings, Montana, according to Plans and Specifications prepared by LONERS & STROEBE, ARCHITECTS, Billings, Montana.

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 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 office of Harry L. Burns, chairman, the Bureau of Public Roads at Missoula.

Fred Quinnell, Jr., State Highway Engineer
Harry L. Burns, Chairman
5838—6-15, 22

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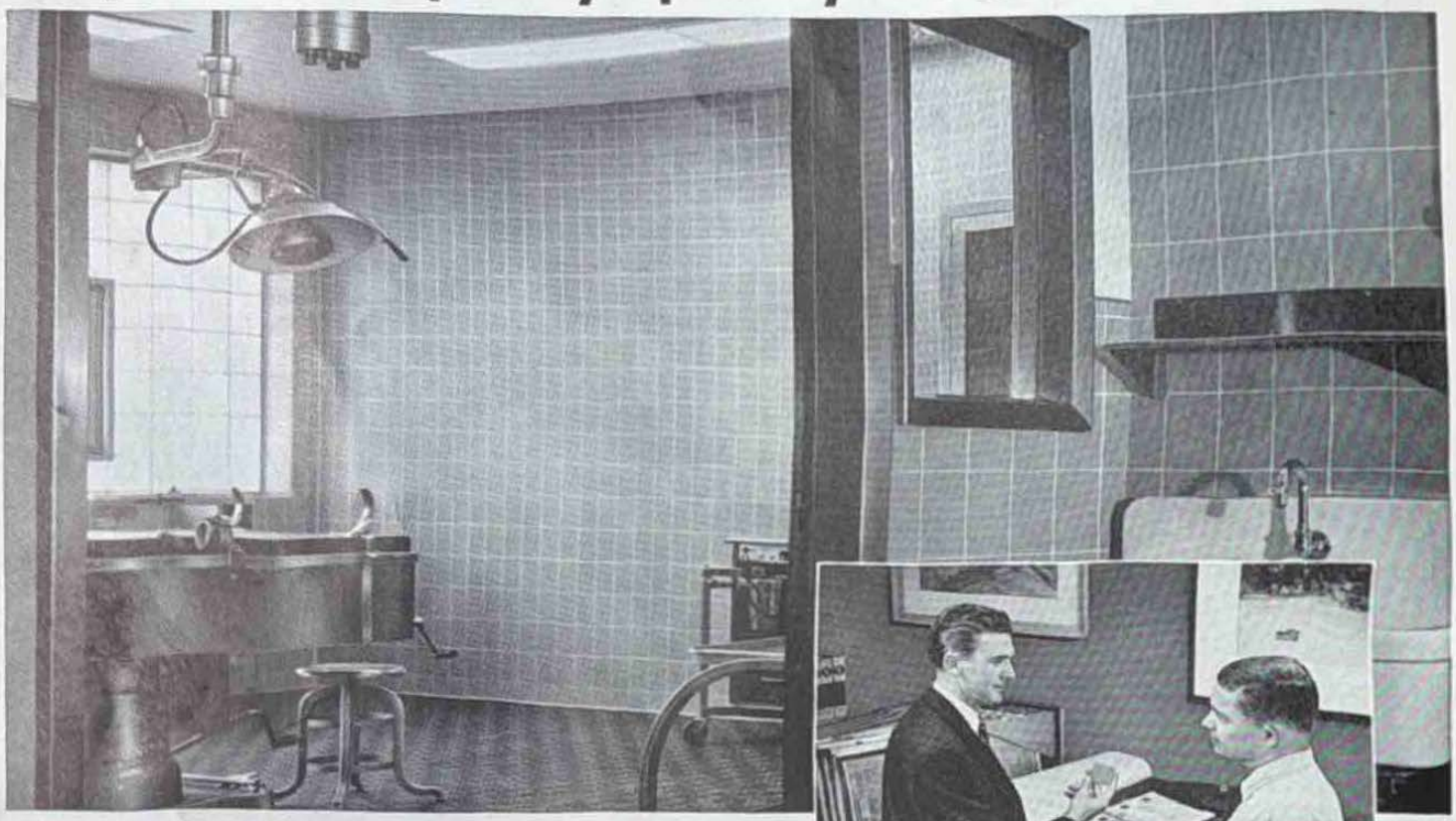


THE INDIVIDUAL AND HIS ENVIRONMENT
—a provocative message by Dr. Tillich

Progress report on lift-slab

JULY 1957

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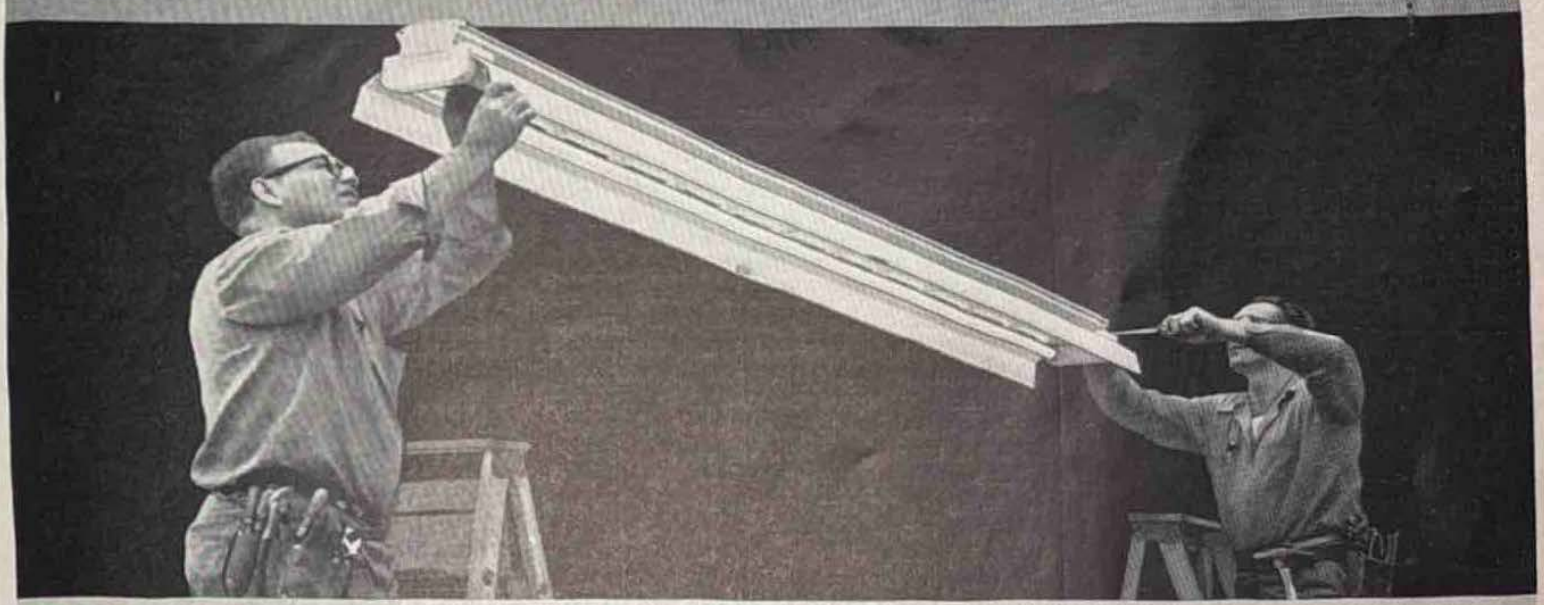
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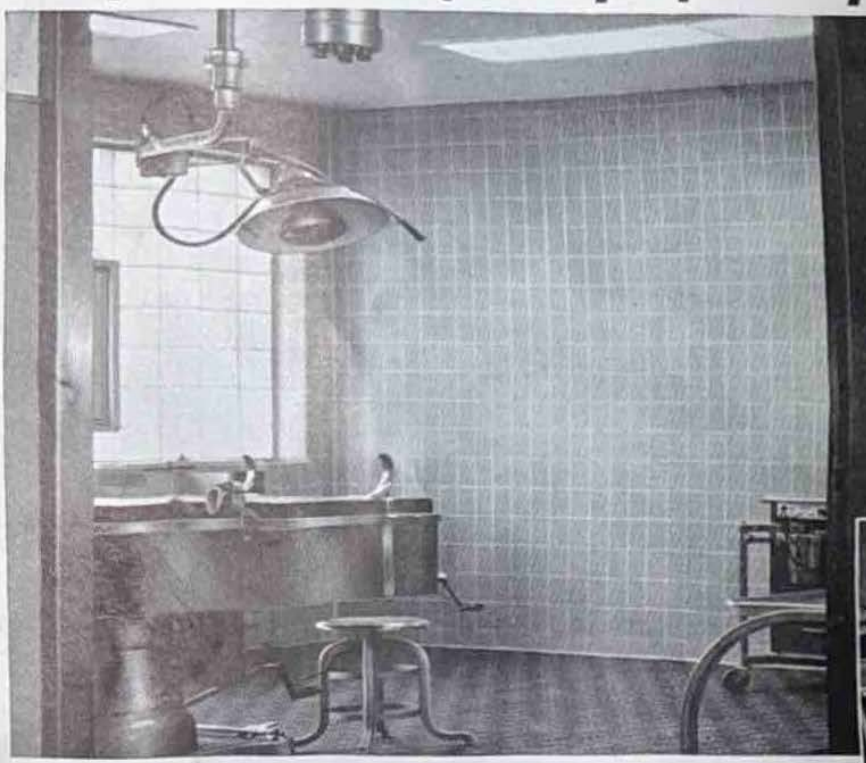
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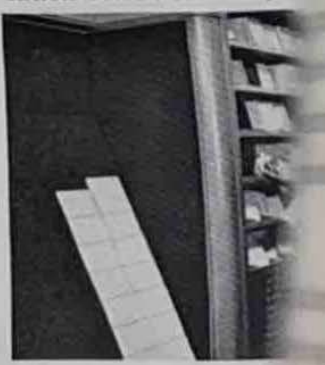
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The individual and *his* environment

by DR. PAUL TILLICH, Professor, Harvard University

THE TERM ENVIRONMENT seems simple and without problems. Actually it is complex and a difficult though open doorway for man's self-understanding. Man and his relation to his world are misunderstood if man's environment is defined as the totality of objects which are so close to the place where he lives that he experiences them in a continuous encounter. If taken in this sense, environment is identical with surroundings. In order to know the environment of a man one has to register, within an arbitrarily chosen orbit, every single object which he may regularly encounter. For instance, every single tree along the road he uses daily, every single figure in the pattern of his drapery, every single car which he sees passing his street, every color, every sound by which he is consciously or unconsciously affected. All this and an infinite amount of other objects surround him. But they are not his environment.

Environment is made up of those elements of his surroundings which are relevant for him as man. A man and his dog have the same surroundings but a different environment. The Bosch painting in my living room is environment for me; it is not environment for my dog for whom only the peculiar smell of oil and varnish may have environmental character. For my maid, the environmental character of the picture may consist of the awareness of the subject matter of the painting and of her duty to dust it from time to time. All this means that environment is not identical with surroundings and that it is correlative to him who has surroundings. The question is not environment and the individual but the individual and HIS environment.

This means that the same surroundings are something quite different for different kinds of individuals. If one takes a New York Puerto Rican out of his slum surroundings and out of the environment which was his environment and puts him into an apartment within a new housing project, he will bring his old environment into the new surroundings and deal with them in terms of his old. They soon will become a slum. Conversely, if somebody who grew up in a cultivated house and for whom the Bosch picture was a picture, he could make of a cave in a wartime trench a small underground living room. This is the first limit for the influence of surroundings on the individual. He selects from the surroundings what shall become his environment.

In this man is not different from any other living being—the dog, the fly, the migrating bird. But there is a difference between man and all other beings: man's environment has the character of world. The environment of animals remains environment. It never can become world. What is world?

The Greeks called it cosmos, which means beauty, order, structure. The Romans called it universe, which means the unity of an infinite manifoldness. A definition of man in which all other definitions are implied is that he has not only environment but also world. World is the structural unity of an inexhaustible number of actual and possible things. It is THE STRUCTURE which makes the world world: if we encounter world, we encounter it as a whole which is structural in time and space, in geometrical and biological forms, in things and consciousness of things, in laws and spontaneity, in the positive and the negative. All this makes the world world and determines the relation of world and environment. One could say that in man's environment world is present and that every piece of his en-

Continued on p. 33

An address presented during the seminar entitled "Environment and the Individual" at the AIA Centennial in Washington, D.C.

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THE COVER

The Boardwalk Shopping Center, Belvedere, Calif. (p. 19). John Lord King, Architect; Dean Stone-Hugo Steccati photo.

The Building Month: Trends/Views

RETURNING FROM A 16,000-MILE TOUR OF EUROPE, a Los Angeles architect believes that "diminishing home ownership in the free countries of the world constitutes a greater threat to democracy than the Soviet stockpile of atomic bombs." Dan Saxon Palmer, who visited Portugal, Spain, Switzerland, France, Germany, Austria and Italy on his extensive housing tour, declared that there is virtually no new individual home construction of consequence underway in any of these countries, with the result that there is a serious overcrowding in most metropolitan areas. Practically all new European housing is in the form of apartments, he said, and the percentage of families who own their own homes is steadily decreasing.

FIRST PROJECT UNDER CONTROVERSIAL MISSION 66 PROGRAM has been completed at Yellowstone National Park. Canyon Village, located about two miles from the Grand Canyon, includes 500 cottage units capable of housing 1,500 persons overnight, a massive lodge 320 ft. long with dining room, cafeteria and coffee shop to accommodate some 5,000 persons a day, an administrative building and three employee dormitories.

CAN CONSTRUCTION OF SCHOOL BUILDINGS BE STANDARDIZED? This hot potato which has been kicked about in many a school board meeting is now being considered in Ogden, Utah. "Some standards should be adhered to in all buildings," the superintendent declared at a recent session; and the school district's consulting architect agreed that certain broad policies should be outlined in writing, but warned against those so stringent and inflexible as to restrict progress.

TOMORROW'S HOME MAY WELL HAVE LUMINOUS CEILINGS and electrically lighted panel walls, with the intensity of light and color readily controlled by the flick of a switch to suit the householder's changing moods. George W. Clark, Sylvania's lighting engineering manager, believes that ceiling design is one of the few ways left to the architect to express his individuality and that ceilings lighted with fluorescent tubes from wall to wall behind plastic sheeting of various design, tones and textures is a way out for new effects.

MENTAL HOSPITALS OF THE FUTURE should have more space, even if they are to accommodate the same number of patients. VA psychiatrist Dr. Harry H. Botts of Chillicothe, Ohio, says that strides made in rehabilitation have changed the whole picture. "Mental hospitals in the future will not be designed just for bedding down patients," he explains. "Bed care always will have to be provided for the older chronic patients, but it will be part of geriatric or old-age care, not part of a mental institution."

DESIGNS FOR A SOLAR-HEATED RESIDENCE, particularly adapted to the arid Southwest, will be sought in an international competition open to practicing architects, designers and students, which closes August 15, 1957. Nathaniel Owings of San Francisco will be a member of the five-man jury for the sponsor, the Association for Applied Solar Energy of Phoenix.

FIRST NEW PRIVATE COLLEGE OF SCIENCE AND ENGINEERING established in the U.S. in more than 20 years is being organized in Claremont, Calif., with the initial construction program underway. To be known as Harvey Mudd College, it will be the fifth member of the Associated Colleges of Claremont which share certain facilities. Ultimate enrollment probably will not exceed 350 and there will be one faculty member for each 10 students.

METHODS FOR DISTRIBUTING CURTAIN WALL DATA to architects and builders are being considered by the Aluminum Window Manufacturers Association, with F. A. Loeback, manager of architectural sales for Kaiser Aluminum, in charge.

Six-month total in five states hits $1.2 billion

Building volume in the five western states for the first six months of this year exceeded $1.2 billion, $94 million below the same period in record-breaking 1956. While the picture is by no means rosy at the mid-year point, if the second half of 1957 follows last year's pattern a good share of the deficit may be wiped out. The first half of 1956 showed a $2½ million drop compared with the preceding period, but the year-end total chalked up a $63 million gain.

The following tabulation by states comparing January through June totals shows that building volume in all five states is running behind 1956.

	Jan.-June 1957	Jan.-June 1956
California	$1,014,674,729	$1,063,898,673
Oregon	59,803,247	75,560,905
Washington	135,772,981	161,298,241
Montana	13,381,720	15,280,497
Idaho	11,495,279	13,045,845
	$1,235,136,956	$1,329,084,161

While the April and May figures tend to indicate building was beginning to set a faster pace, the June volume slumped down, with a drop of $44½ million below the same month in 1956. Idaho was the only state to record an increase.

The usual seasonal increase of June over May was completely ignored except in Montana where it was very slight. The five-state total showed a $45½ million decrease.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during June. (First number in each category refers to the number of permits, not the number of units.)

	DWELLING	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	63 ($ 1,037,150)	27 ($2,139,910)	1 ($ 9,750)
King Co.	447 (4,452,720)	54 (450,590)	3 (79,000)
Seattle	566 (3,844,976)	159 (2,792,920)	1 (2,000)
Tacoma	97 (424,065)	34 (256,645)	1 (366,000)
Los Angeles Co.	2,109 (16,985,802)	372 (5,586,268)	50 (1,102,320)
Orange Co.	256 (2,677,783)	23 (151,176)	6 (200,500)
Sacramento Co.	420 (3,042,319)	47 (828,080)	7 (3,599,000)

Building Permit Totals for 116 Western Agencies for June 1957

CALIFORNIA	June 1957	May 1957	June 1956
Alameda County	$ 3,976,200	$ 3,232,000	$ 2,740,200
Anaheim	2,841,700	2,597,407	2,915,850
Bakersfield	365,618	309,571	602,485
Burbank	1,229,820	1,575,262	864,675
Contra Costa County	2,462,832	3,567,798	4,091,744
Fresno	1,479,088	5,872,435	997,742
Fullerton	1,403,931	848,289	1,671,178
Glendale	1,346,350	3,148,692	1,387,096
Inglewood	2,474,628	931,292	802,983
Long Beach	2,902,270	3,509,875	3,878,030
Los Angeles	49,346,194	52,076,683	52,070,838
Los Angeles County	24,775,672	28,130,303	29,602,593
Oakland	4,623,660	3,386,717	5,803,059
Ontario	449,577	504,963	291,859
Orange County	3,318,852	8,370,171	8,404,780
Palo Alto	775,380	8,285,870	1,578,168
Pasadena	1,614,588	5,808,222	1,622,678
Pomona	1,975,487	1,210,535	1,773,737
Richmond	716,347	812,526	1,073,584
Riverside	904,602	1,559,546	2,951,226
Sacramento	1,588,884	2,185,751	1,876,338
Sacramento County	7,588,095	6,388,440	9,214,645
San Bernardino	2,329,135	1,596,752	1,175,383
San Bernardino County	6,144,921	6,454,386	4,450,710
San Diego	10,198,376	10,679,299	8,476,149
San Diego County	5,333,300	6,028,400	4,721,000
San Francisco	4,547,392	5,709,838	5,875,834
San Jose	4,222,050	4,889,575	5,104,915
San Mateo	581,389	1,015,306	1,796,331
San Mateo County	1,398,567	4,508,782	1,897,390
Santa Ana	1,595,201	2,391,618	2,280,611
Santa Monica	1,564,789	1,648,950	1,264,245
Stockton	651,101	3,169,289	1,023,344
Sunnyvale	1,653,155	1,661,875	3,505,866
Torrance	684,377	3,023,718	5,722,267
West Covina	546,613	1,419,909	1,268,280
TOTAL	$159,610,141	$198,511,045	$184,777,813

OREGON	June 1957	May 1957	June 1956
Albany	$ 100,900	$ 177,800	$ 149,900
Astoria	43,860	54,585	1,291,080
Baker	154,595	40,890	59,810
Bend	109,991	258,100	81,880
Coos Bay	16,445	30,190	76,675
Corvallis	256,791	862,502	1,320,020
Eugene	901,595	351,470	428,527
Grants Pass	99,695	92,150	212,575
Gresham	3,500	244,317	86,900
Hillsboro	67,825	577,650	77,495
Klamath Falls	144,656	135,075	386,270
LaGrande	29,639	6,925	37,118
Lane County	715,533	740,459	1,115,660
Medford	250,700	450,125	579,772
Multnomah County	2,048,530	4,124,660	2,708,468
North Bend	72,230	81,208	50,778
Oregon City	56,545	15,845	41,782
Pendleton	77,135	108,517	86,555
Portland	4,559,630	2,803,115	4,467,445
Roseburg	44,530	57,922	139,048
Salem	250,274	444,558	563,398
Springfield	17,965	201,665	98,953
The Dalles	54,600	43,350	81,103
TOTAL	$ 10,077,164	$ 11,903,018	$ 14,141,212

WASHINGTON	June 1957	May 1957	June 1956
Aberdeen	$ 91,636	$ 208,900	$ 53,919
Anacortes	48,770	26,991	114,144
Auburn	106,500	210,500	160,775
Bellingham	438,856	331,079	540,692
Bremerton	214,185	349,190	86,235
Centralia	49,507	65,304	195,923
Chehalis	123,081	81,670	17,296
Clarkston	66,690	10,865	83,355
Ellensburg	18,708	35,778	25,975
Ephrata	79,567	19,615	15,940
Everett	405,704	477,694	320,541
Kelso	56,100	17,200	19,400
Kennewick	118,985	306,930	42,450
King County	5,423,930	6,277,960	14,567,397
Kirkland	14,406	75,200	70,675
Longview	224,946	244,884	1,260,803
Moses Lake	209,833	70,669	685,219
Olympia	361,270	196,778	203,804
Pasco	179,928	51,555	50,330
Pierce County	1,124,950	984,036	2,177,699
Port Angeles	61,250	104,688	24,650
Puyallup	165,825	124,900	72,680
Ritzville	Nil	Nil	20,000
Seattle	6,807,941	6,897,879	7,005,160
Shelton	18,300	208,177	35,850
Spokane	1,423,023	2,648,036	2,596,063
Spokane County	1,274,813	1,378,547	1,604,635
Sumner	387,600	60,150	27,725
Tacoma	1,284,725	2,138,323	2,383,764
Vancouver	501,156	1,585,742	572,848
Walla Walla	83,295	271,895	236,950
Wenatchee	162,213	416,832	89,000
Yakima	272,864	765,505	671,144
TOTAL	$ 21,809,557	$ 26,643,472	$ 36,033,041

MONTANA	June 1957	May 1957	June 1956
Billings	$ 552,400	$ 252,000	$ 1,796,889
Bozeman	28,675	152,000	48,400
Butte	331,725	506,657	90,973
Glasgow	306,300	59,315	23,920
Glendive	39,600	37,770	167,800
Great Falls	649,223	449,217	757,776
Helena	213,030	272,885	51,134
Kalispell	98,350	41,550	234,350
Lewistown	19,500	18,000	101,000
Livingston	41,355	280,255	70,080
Miles City	57,000	37,500	68,063
Missoula	17,500	64,319	162,400
TOTAL	$ 2,354,658	$ 2,171,468	$ 3,572,776

IDAHO	June 1957	May 1957	June 1956
Boise	$ 571,517	$ 500,527	$ 420,213
Caldwell	169,555	186,995	80,202
Coeur d'Alene	37,920	187,330	259,050
Idaho Falls	1,002,600	578,445	393,000
Jerome	9,925	1,020	32,590
Lewiston	88,170	185,618	192,649
Nampa	34,515	408,050	197,925
Payette	18,300	225	14,300
Pocatello	168,312	316,730	338,463
Sandpoint	50,200	23,050	27,700
St. Maries	2,650	29,600	600
Twin Falls	180,300	189,550	111,675
TOTAL	$ 2,333,964	$ 2,607,140	$ 2,068,367
GRAND TOTAL	$196,185,484	$241,836,143	$240,593,209

The Building Month: Trends/Views

RETURNING FROM A 16,000-MILE TOUR OF EUROPE, a Los Angeles architect believes that "diminishing home ownership in the free countries of the world constitutes a greater threat to democracy than the Soviet stockpile of atomic bombs." Dan Saxon Palmer, who visited Portugal, Spain, Switzerland, France, Germany, Austria and Italy on his extensive housing tour, declared that there is virtually no new individual home construction of consequence underway in any of these countries, with the result that there is a serious overcrowding in most metropolitan areas. Practically all new European housing is in the form of apartments, he said, and the percentage of families who own their own homes is steadily decreasing.

FIRST PROJECT UNDER CONTROVERSIAL MISSION 66 PROGRAM has been completed at Yellowstone National Park. Canyon Village, located about two miles from the Grand Canyon, includes 500 cottage units capable of housing 1,500 persons overnight, a massive lodge 320 ft. long with dining room, cafeteria and coffee shop to accommodate some 5,000 persons a day, an administrative building and three employee dormitories.

CAN CONSTRUCTION OF SCHOOL BUILDINGS BE STANDARDIZED? This hot potato which has been kicked about in many a school board meeting is now being considered in Ogden, Utah. "Some standards should be adhered to in all buildings," the superintendent declared at a recent session; and the school district's consulting architect agreed that certain broad policies should be outlined in writing, but warned against those so stringent and inflexible as to restrict progress.

TOMORROW'S HOME MAY WELL HAVE LUMINOUS CEILINGS and electrically lighted panel walls, with the intensity of light and color readily controlled by the flick of a switch to suit the householder's changing moods. George W. Clark, Sylvania's lighting engineering manager, believes that ceiling design is one of the few ways left to the architect to express his individuality and that ceilings lighted with fluorescent tubes from wall to wall behind plastic sheeting of various design, tones and textures is a way out for new effects.

MENTAL HOSPITALS OF THE FUTURE should have more space, even if they are to accommodate the same number of patients. VA psychiatrist Dr. Harry H. Botts of Chillicothe, Ohio, says that strides made in rehabilitation have changed the whole picture. "Mental hospitals in the future will not be designed just for bedding down patients," he explains. "Bed care always will have to be provided for the older chronic patients, but it will be part of geriatric or old-age care, not part of a mental institution."

DESIGNS FOR A SOLAR-HEATED RESIDENCE, particularly adapted to the arid Southwest, will be sought in an international competition open to practicing architects, designers and students, which closes August 15, 1957. Nathaniel Owings of San Francisco will be a member of the five-man jury for the sponsor, the Association for Applied Solar Energy of Phoenix.

FIRST NEW PRIVATE COLLEGE OF SCIENCE AND ENGINEERING established in the U.S. in more than 20 years is being organized in Claremont, Calif., with the initial construction program underway. To be known as Harvey Mudd College, it will be the fifth member of the Associated Colleges of Claremont which share certain facilities. Ultimate enrollment probably will not exceed 350 and there will be one faculty member for each 10 students.

METHODS FOR DISTRIBUTING CURTAIN WALL DATA to architects and builders are being considered by the Aluminum Window Manufacturers Association, with F. A. Loeback, manager of architectural sales for Kaiser Aluminum, in charge.



Six-month total in five states hits $1.2 billion

Building volume in the five western states for the first six months of this year exceeded $1.2 billion, $94 million below the same period in record-breaking 1956. While the picture is by no means rosy at the mid-year point, if the second half of 1957 follows last year's pattern a good share of the deficit may be wiped out. The first half of 1956 showed a $2½ million drop compared with the preceding period, but the year-end total chalked up a $63 million gain.

The following tabulation by states comparing January through June totals shows that building volume in all five states is running behind 1956.

	Jan.-June 1957	Jan.-June 1956
California	$1,014,674,729	$1,063,898,673
Oregon	59,803,247	75,560,905
Washington	135,772,981	161,298,241
Montana	13,381,720	15,280,497
Idaho	11,495,279	13,045,845
	$1,235,136,956	$1,329,084,161

While the April and May figures tend to indicate building was beginning to set a faster pace, the June volume slumped down, with a drop of $44½ million below the same month in 1956. Idaho was the only state to record an increase.

The usual seasonal increase of June over May was completely ignored except in Montana where it was very slight. The five-state total showed a $45½ million decrease.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during June. (First number in each category refers to the number of permits, not the number of units.)

	DWELLING	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	63 ($ 1,037,150)	27 ($2,139,910)	1 ($ 9,750)
King Co.	447 (4,452,720)	54 (450,590)	3 (79,000)
Seattle	566 (3,844,976)	159 (2,792,920)	1 (2,000)
Tacoma	97 (424,065)	34 (256,645)	1 (366,000)
Los Angeles Co.	2,109 (16,985,802)	372 (5,586,268)	50 (1,102,320)
Orange Co.	256 (2,677,783)	23 (151,176)	6 (200,500)
Sacramento Co.	420 (3,042,319)	47 (828,080)	7 (3,599,000)

Building Permit Totals for 116 Western Agencies for June 1957

CALIFORNIA	June 1957	May 1957	June 1956
Alameda County	$ 3,976,200	$ 3,232,000	$ 2,740,200
Anaheim	2,841,700	2,597,407	2,915,850
Bakersfield	365,618	309,571	602,485
Burbank	1,229,820	1,575,262	864,675
Contra Costa County	2,462,832	3,567,798	4,091,744
Fresno	1,479,088	5,872,435	997,742
Fullerton	1,403,931	848,289	1,671,178
Glendale	1,346,350	3,148,692	1,387,096
Inglewood	2,474,628	931,292	802,983
Long Beach	2,902,270	3,509,875	3,878,030
Los Angeles	49,346,194	52,076,683	52,070,838
Los Angeles County	24,775,672	28,130,303	29,602,593
Oakland	4,623,660	3,386,717	5,803,059
Ontario	449,577	504,963	291,859
Orange County	3,318,852	8,370,171	8,404,780
Palo Alto	775,380	8,285,870	1,578,168
Pasadena	1,614,588	5,808,222	1,622,678
Pomona	1,975,487	1,210,535	1,773,737
Richmond	716,347	812,526	1,073,584
Riverside	904,602	1,559,546	2,951,226
Sacramento	1,588,884	2,185,751	1,876,338
Sacramento County	7,588,095	6,388,440	9,214,645
San Bernardino	2,329,135	1,596,752	1,175,383
San Bernardino County	6,144,921	6,454,386	4,450,710
San Diego	10,198,376	10,679,299	8,476,149
San Diego County	5,333,300	6,028,400	4,721,000
San Francisco	4,547,392	5,709,838	5,875,834
San Jose	4,222,050	4,889,575	5,104,915
San Mateo	581,389	1,015,306	1,796,331
San Mateo County	1,398,567	4,508,782	1,897,390
Santa Ana	1,595,201	2,391,618	2,280,611
Santa Monica	1,564,789	1,648,950	1,264,245
Stockton	651,101	3,169,289	1,023,344
Sunnyvale	1,653,155	1,661,875	3,505,866
Torrance	684,377	3,023,718	5,722,267
West Covina	546,613	1,419,909	1,268,280
TOTAL	$159,610,141	$198,511,045	$184,777,813

OREGON	June 1957	May 1957	June 1956
Albany	$ 100,900	$ 177,800	$ 149,900
Astoria	43,860	54,585	1,291,080
Baker	154,595	40,890	59,810
Bend	109,991	258,100	81,880
Coos Bay	16,445	30,190	76,675
Corvallis	256,791	862,502	1,320,020
Eugene	901,595	351,470	428,527
Grants Pass	99,695	92,150	212,575
Gresham	3,500	244,317	86,900
Hillsboro	67,825	577,650	77,495
Klamath Falls	144,656	135,975	386,270
LaGrande	29,639	6,925	37,118
Lane County	715,533	740,459	1,115,660
Medford	250,700	450,125	579,772
Multnomah County	2,048,530	4,124,660	2,708,468
North Bend	72,230	81,208	50,778
Oregon City	56,545	15,845	41,782
Pendleton	77,135	108,517	86,555
Portland	4,559,630	2,803,115	4,467,445
Roseburg	44,530	57,922	139,048
Salem	250,274	444,558	563,398
Springfield	17,965	201,665	98,953
The Dalles	54,600	43,350	81,103
TOTAL	$ 10,077,164	$ 11,903,018	$ 14,141,212

WASHINGTON	June 1957	May 1957	June 1956
Aberdeen	$ 91,636	$ 208,900	$ 53,919
Anacortes	48,770	26,991	114,144
Auburn	106,500	210,500	160,775
Bellingham	438,856	331,079	540,692
Bremerton	214,185	349,190	86,235
Centralia	49,507	65,304	195,923
Chehalis	123,081	81,670	17,296
Clarkston	66,690	10,865	83,355
Ellensburg	18,708	35,778	25,975
Ephrata	79,567	19,615	15,940
Everett	405,704	477,694	320,541
Kelso	56,100	17,200	19,400
Kennewick	118,985	306,930	42,450
King County	5,423,930	6,277,960	14,567,397
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GRAND TOTAL	$196,185,484	$241,836,143	$240,593,209

Becket sets up shop in Bagdad for Iraq government

The West Coast firm of Welton Becket & Associates has been selected by the government of Iraq to establish architectural headquarters in that country and has already sent a study team to Bagdad to undertake first steps to organize the office.

"Office space has been provided by Iraq, but it will require extensive alterations to meet our needs," Becket explains. "This office will be completely unique from any architectural office in the United States.

"In the first place, it will have to be organized as an architect-general contractor-client combination, but run as a single unit by our firm. The Iraq government requirements call for this grouping and building in a foreign country is a close composite of these functions."

Becket says that perhaps the most unusual feature of the office will be that all figuring will have to be done on both the Arabic language and metric scales so that plans can be read by all contractors and suppliers working on the jobs.

Heading the study team in Bagdad is Charles B. McReynolds, architectural project chief with the Becket organization. Once the office is established after the first of next year, McReynolds is to be director. Others on the team are Dick Bird, architectural designer, and Richard Bradshaw, consulting structural engineer. A fourth member, Haig Assadourian, will travel from Becket's Cairo, Egypt, office to join the team in Bagdad.

First project to be planned by the office will be a huge hotel for the government of Iraq. Operation and management will be handled by Hilton Hotels International.

Briefly noted . . .

• The University of Washington School of Architecture in Seattle has been given status as an autonomous college to be known as the College of Architecture and Planning. Prof. Arthur P. Herrman, director of the school, has been named acting dean.

• Development of Los Angeles County's $51 million civic auditorium and music center through an open competition has been advocated by the Southern California Chapter, AIA.

• California's Marin County Board of Supervisors has voted to open negotiations with Frank Lloyd Wright to design an $8 million government center just north of San Rafael on U. S. Highway 101.

• The Hawaii Housing Authority has called for construction of 624 low-rent homes in Honolulu at a cost of $9,605,000.

• The Greater Seattle Housing Council has elected William C. Newell Jr. of the Home Builders' Association of Greater Seattle as president and architect John M. Morse as vice president. The council was formed to develop greater availability of housing for minority group families.

• The regents of the University of California, planning for a 1970 enrollment of 103,000 students, have earmarked more than $43 million for capital improvements next year. They also have announced that the Berkeley-Richmond architectural firm of Vernon DeMars-Donald Hardison has won a competition to design a $10 million student center on the Berkeley campus.

Projects of note

• Pietro Belluschi's Equitable Building in Portland will get a four-story addition—38 ft. in width, stretching 200 ft. across the west side—to the two-story portion of the glass and aluminum structure. Architects for the addition are Skidmore, Owings & Merrill, whose office succeeded the original designer.

• A boom town seems to be in the making in Washington's Stevens County. Washington Water Power Co. has completed a 60,000-volt substation and a local transmission line, awaiting a town to grow into it at Uranium City, site of a $3 million uranium processing plant now being erected by Dawn Mining Co. Construction is now starting on a 10-unit motel, two service stations, a four-unit office building and 12 all-electric homes.

• San Francisco's highest skyscraper, to be designed by architects Pereira & Luckman, is now in the planning stage and will be erected within three years south of Market Street.

San Francisco studies needs of housing government

A team of consulting architects has reported that it would cost at least $24 million to solve the problem of housing San Francisco's local government offices for the next 20 years.

The architects' recommendations are part of a $70,000 master plan being prepared for the future development of San Francisco's Civic Center. Three firms are associated in making the plan: architects Wurster, Bernardi & Emmons, architects Skidmore, Owings & Merrill and traffic engineers DeLeuw Cather & Co.

The report indicates the city should build a new $16 million courthouse and spend $8 million on remodeling the existing city hall to serve both the judicial and executive branches of San Francisco government. Later an office building annex to cost $4½ million would be added to the Civic Center to bring all of the now scattered city bureaus into one structure.

The report is now being reviewed by the finance committee of the San Francisco Board of Supervisors.

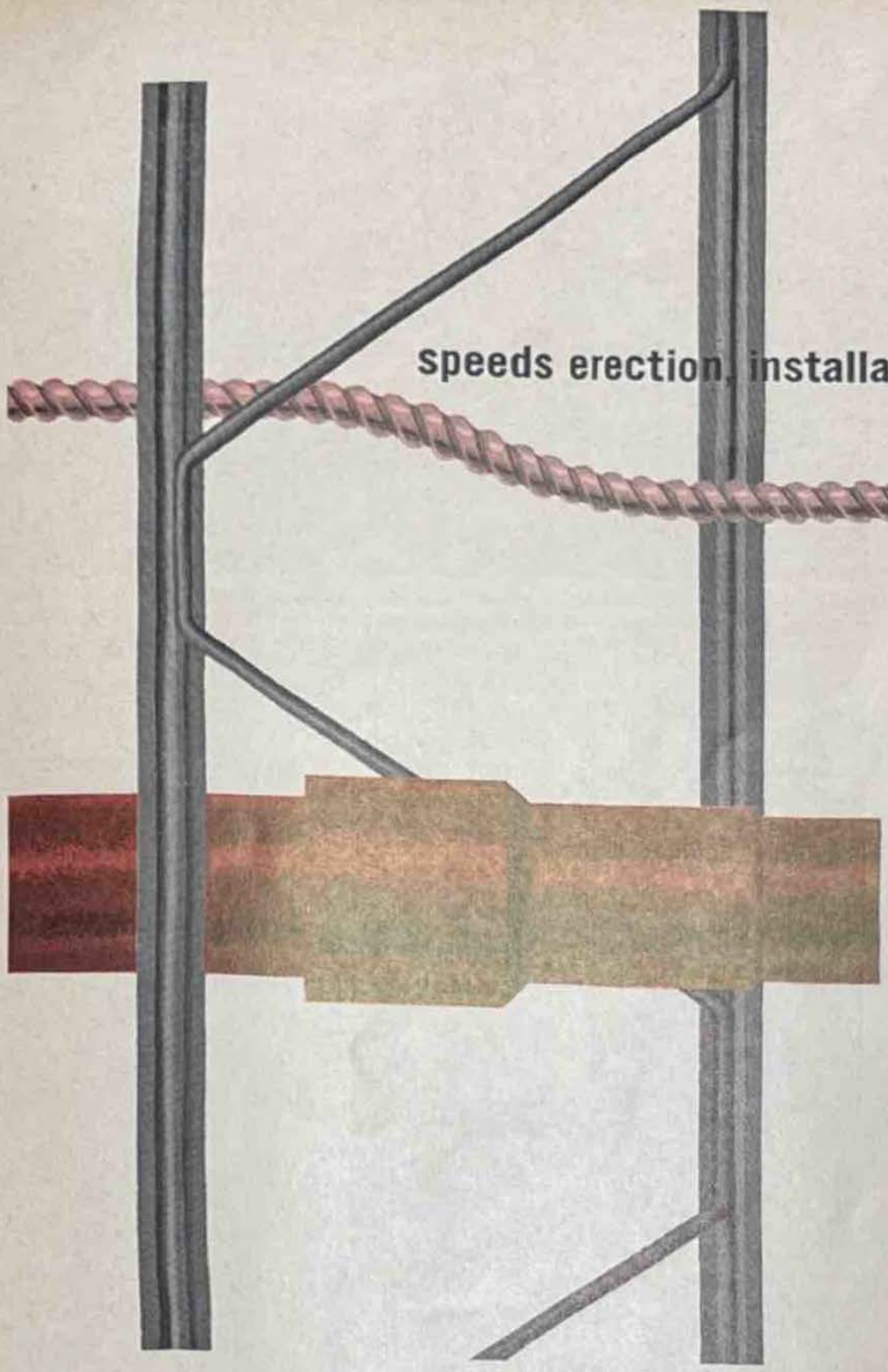
Board reviews roof slab failure on Florida job

An engineering board assigned to investigate the causes of the collapse of a section of roof last August on the then newly completed Blanckner Elementary School in Orlando, Fla. has released its report to the Prestressed Concrete Institute. Among the points covered are these:

1. The collapse was not caused by ultimate failure of the slabs.
2. The design of the roof slab was defective in that the extreme fiber stresses exceeded the allowable.
3. The cracking of the slab resulted in excessive deflection and the ponding of water on the roof which brought about more deflection and also rotation of the slab at the supports.
4. The bearings points of the slab on the concrete block wall were eccentric and the wall design was inadequate.
5. The rotation of the slabs shifted the bearing point causing the wall to collapse. This wall, which had window openings from one end to the other, its pilasters and the tie (bond) beam were inadequately designed.

Board members were H. Ross Bryan, consulting engineer, Nashville, Tenn.; H. H. Edwards, president, Leap Concrete, Inc., Lakeland, Fla.; and Prof. A. M. Ozell, College of Engineering, University of Florida.





Another Soulé First

SOULÉ STEEL STUD

speeds erection, installation of pipe and conduit

This time-saving and cost-cutting steel stud design was pioneered and perfected by Soulé. It features wide web openings for faster installation of pipe and conduit. The Soulé design also makes the stud easier to handle on the job—hand cutting is faster, speeding erection. Soulé steel stud is available in 2″, 3¼″, 4″, and 6″ widths. Call your nearest Soulé office for complete specifications and details.

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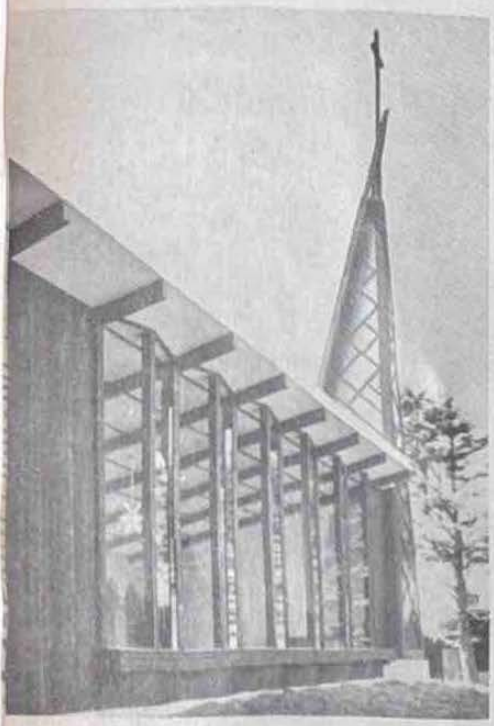
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Los Angeles 6200 Wilmington Avenue, LUdlow 5-0911
San Diego 1975 Fifth Avenue, BEImont 2-1071
Portland 2630 N.W. St. Helens Road, CApitol 3-5154
Seattle 4100 West Marginal Way, HOlly 3600
Spokane East 41 Gray Ave., Riverside 7-8063
Phoenix 2026 South 11th Avenue, ALpine 3-3178
Salt Lake City 220 Greyhound Bldg., EMpire 3-7728

Oregon premiates five projects in awards program

In its second design competition, the Oregon Chapter, AIA, presented three buildings with first honor awards and two with awards of merit. The architect jury made up of Paul Kirk of Seattle, Kenneth Brooks of Spokane and Dewitt Robinson of Portland reviewed 28 entries. In commenting on the winners, they said that all were small, beautifully and sensitively carried out and featured regional woods. Architects and owners received their citations at a banquet in Portland June 16, with Brooks as principal speaker.

First Honor Awards (below and right)



OCEANLAKE-WECOMA COMMUNITY CONGREGATIONAL CHURCH, Oceanlake: Warren Weber, architect; John Fuller & Sons, contractor (PA&B for Sept. '55). "Site not unlike those chosen in Sweden; shingle tower similar to those used in that country."

HOYT STREET MEDICAL CLINIC BUILDING, Portland: Skidmore, Owings & Merrill, architects; Norman Builders, contractors. "Simple cube forward on site with parking at rear; side setbacks required by code used for driveways; has plesant scale."

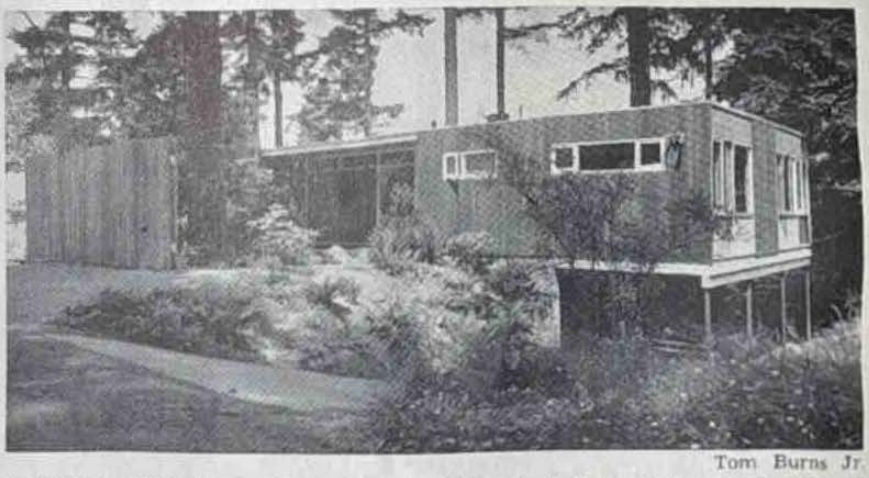
Dearborn-Massar





PORTLAND GARDEN CLUB: John Storrs, architect; Norman Builders, contractor. "Refined detailing with integrated landscaping; quality of Saarinen of growing old with dignity; adopated mass of building to site."

Awards of Merit

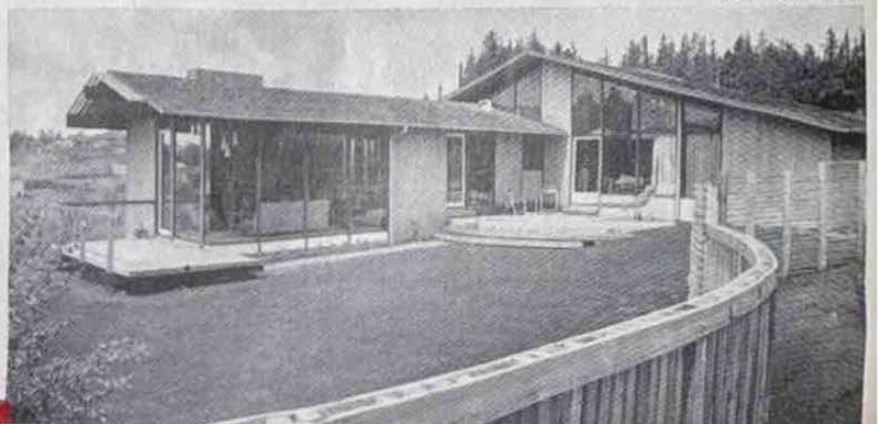


Tom Burns Jr.

WILLIAM L. FLETCHER RESIDENCE, Portland: William L. Fletcher, architect; Fred McCarroll (original construction) and Ellis-Andrews (addition) contractors. "Small, pure shelter on carpet of forest, rather than growing out of forest, decks are spacious and inviting; good site planning."

PHILIP FELDMAN RESIDENCE, Portland: Saul Zaik, designer; Max Shimshak, contractor. "Completeness of plan of house and site very commendable, particularly treatment of main entrance; details carefully considered and worked out."

Tom Burns Jr.

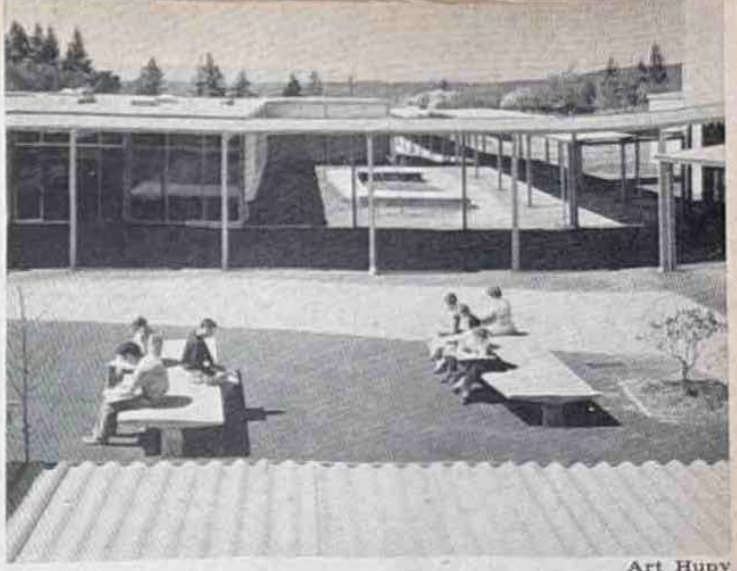


Five buildings honored in Seattle competition

A school, an office building, a bank and two residences were cited as outstanding examples of Seattle area architecture in the seventh annual honor awards competition sponsord by the Washington State Chapter, AIA.

A jury of three Northwest architects—Lancelot E. Gowen of the University of Washington's School of Architecture, Thomas F. Hargis of Yakima and Robert B. Price of Tacoma—selected the five winners from 31 entries which were first judged on the basis of photographic panels. Twelve finalists were then personally viewed and inspected by the jurors.

At a June 6 dinner meeting architects, owners and contractors of the winning buildings were awarded certificates "in recognition of the professional excellence manifested by the Architect . . . the intelligent cooperation shown by the Client in demanding and recognizing the highest architectural standards and the fine performance of the Contractor in execution of the work."



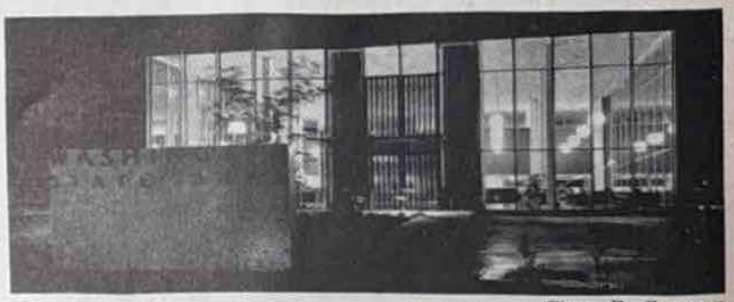
Art Hupy

OLYMPIC VIEW JUNIOR HIGH SCHOOL, Mukilteo: Waldron & Dietz, architects; Hedeen Construction Co., contractor (PA&B for June '57). "Simple in plan and details in which provision has been made for an orderly and coordinated expansion program. Particularly impressed with the central student court that appears to form a hub of all activity centers."



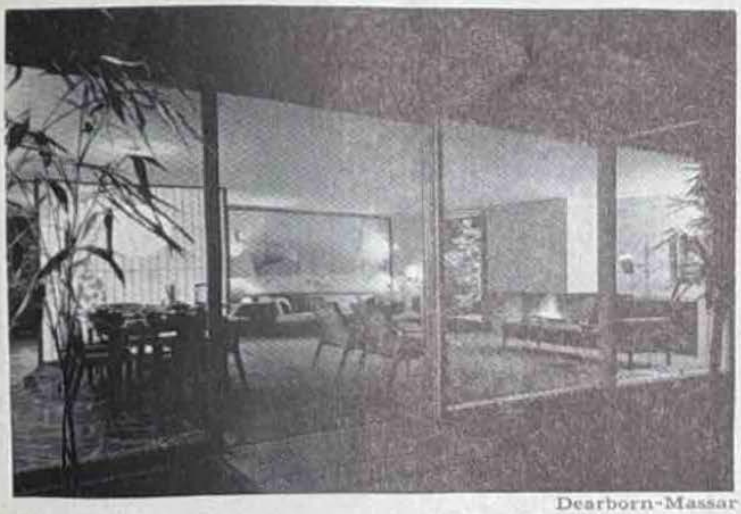
Art Hupy

WASHINGTON CONFERENCE OF SEVENTH-DAY ADVENTISTS OFFICE BUILDING, Seattle: Robert J. Burman, architect; Baugh Construction Co., contractor. "Impressed with the simplicity of plan and consistent detailing."



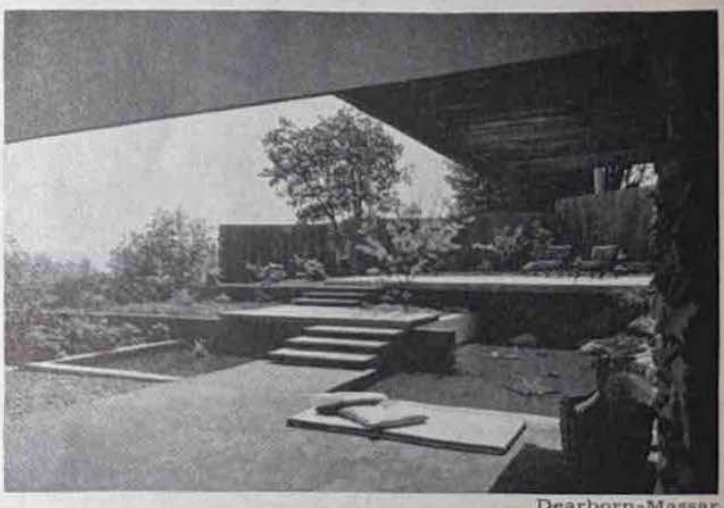
Chas. R. Pearson

SEATTLE-FIRST NATIONAL BANK, BELLEVUE BRANCH: Mithun & Nesland, Ridenour & Cochran, Associates, architects; Wick Construction Co., contractor. "Particularly impressed with this glass and steel cage design for modern banking facilities."



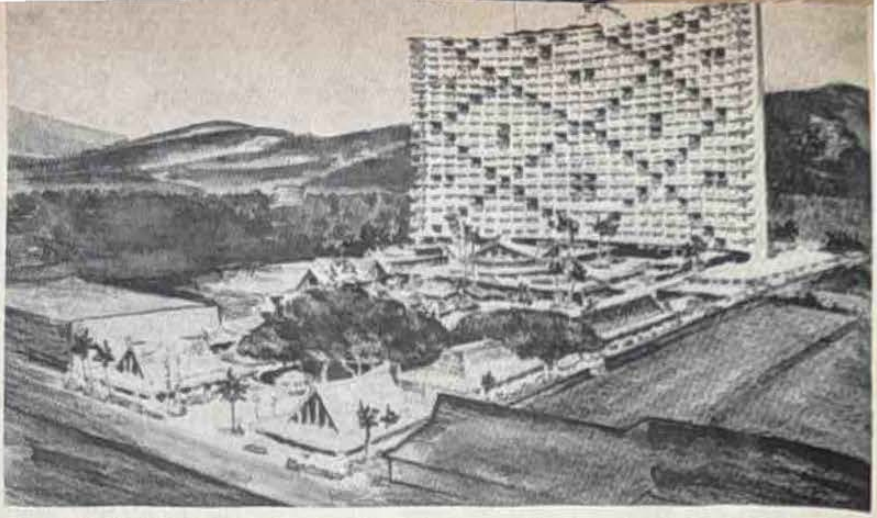
Dearborn-Massar

JOHN RUSSELL RESIDENCE (Electri-Living Home), Medina: Paul Hayden Kirk & Associates, architects; Robinson Homes, Inc., contractor. "Commended for excellence of plan, simplicity of detail and general consistency of its parts."



Dearborn-Massar

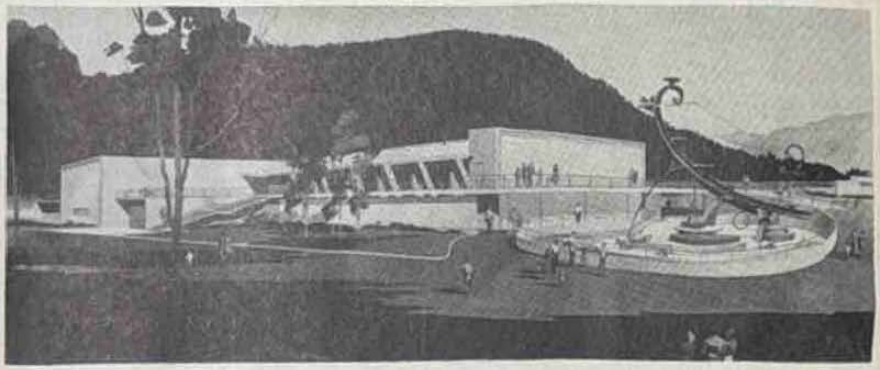
LEWIS J. DOWELL RESIDENCE, Seattle: Paul Hayden Kirk & Associates, architects; Lewis J. Dowell, contractor. "Vertical as well as horizontal space was used to the utmost for drama and a sense of continuity. Special commendation for integration of house and garden."



PROPOSED 20-STORY HOTEL FOR HAWAII would be built of steel and concrete in one-story thickness to catch vista of ocean and Waikiki in front and of mountains at rear. Plans call for corridors to be dropped below floor level and glass enclosed with vents, permitting full view and trade wind ventilation. Ocean front balconies are designed to give decorative pattern to facade which recalls Hawaiian tapa cloth. Costing about $7 million, hotel would be focal point of Waikiki Development Co.'s current project, International Market Place. Architects: Wimberly & Cook.



FIRST NEW MAJOR OFFICE BUILDING in downtown Seattle, 21-story structure costing more than $10 million, is scheduled for occupancy by mid-1959. Main entrance will feature landscaped plaza. Building above lobby level will be enclosed with tinted gray glass set in vertical aluminum members. Each floor will be spanned by 70-ft. prestressed concrete joints, eliminating interior supporting columns and allowing complete flexibility of layout. Architects: Jones & Bindon; consultants: Skidmore, Owings & Merrill.



PRIMATE HOUSE AND MONKEY ISLAND part of five-year project to be completed by mid-1959 at Portland Zoological Gardens, will be unique in its interrelationship of interior and exterior displays. Public will view exhibits through reflection-free glass during cooler months and will see monkeys in their outdoor cages whenever weather permits. Island, surrounded by 20 ft. of water and reached by tunnel from basement, will feature gayly painted apparatus in fantastic forms. Architects: Lawrence, Tucker & Wallmann.



NINE-YEAR PROJECT OF NEWPORT HARBOR UNION HIGH SCHOOL in Costa Mesa, Calif., is sited on 70 acres, 20 of which have been set aside for agricultural programs. Administration building will be suspended off ground to allow unobstructed view of entire plant, of lift-slab construction for most part. Eating shelter is planned as dome 100 ft. in diameter, with standard rolled steel beams and poured gypsum roof over asbestos formboard. Architects: Lind, Pleger, Blurock & Hougan.

Where architects hang their hats

SETH M. FULCHER
Seattle, Washington



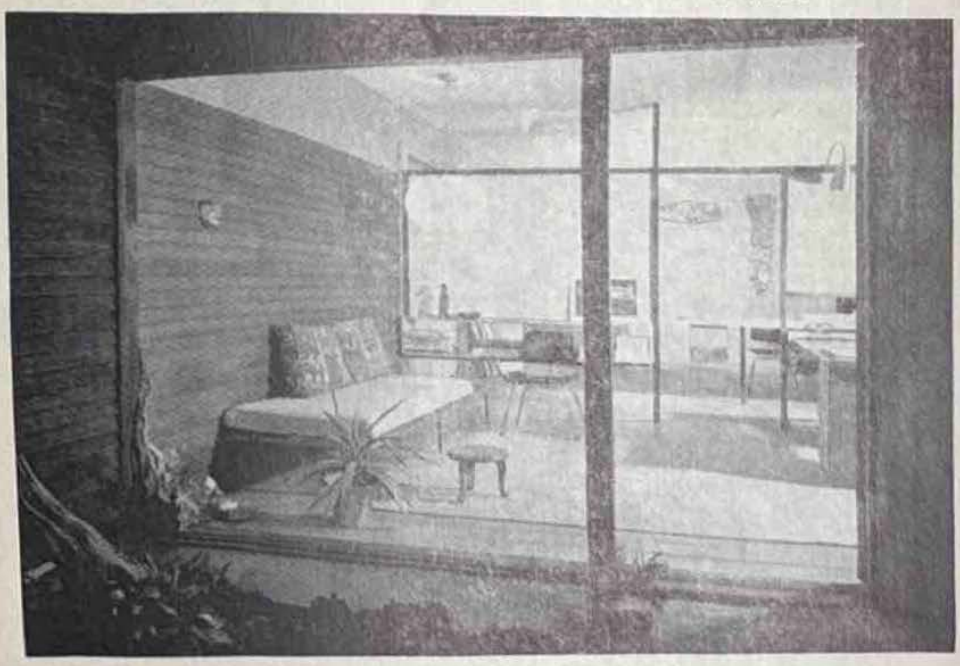
FLIMSY POULTRY STORE becomes pleasant office for architect who is assisted in practice by his art-major wife turned draftsman. Cedar wall hides unattractive backyard outside, covers old plaster inside.

Vern Green photos except below





WINDOW INTERCEPTS beveled siding which carries visitor's attention inside.



WITH a minimum budget and no structural changes, this architectural office was remodeled from a small poultry store built more than 20 years ago. The face lifting was accomplished primarily by relocating the entrance through a small scale side court backed by a screen fence and wall detail of ¼x4-in. beveled cedar siding.

Shoji screens and horizontal eyebrow louvers at the existing front windows provide the required privacy and sun control on the south exposure. Clinker brick garden wall and contiguous planter boxes furnish masonry contrast to the slate gray stained siding. Mahonia and barberry form a planting buffer at the street.

Included in the 625 sq. ft. of area is a small waiting and drafting room, with space for a future conference and samples area.

KAWNEER...

A single source for a comple



CUSTOM FABRICATED

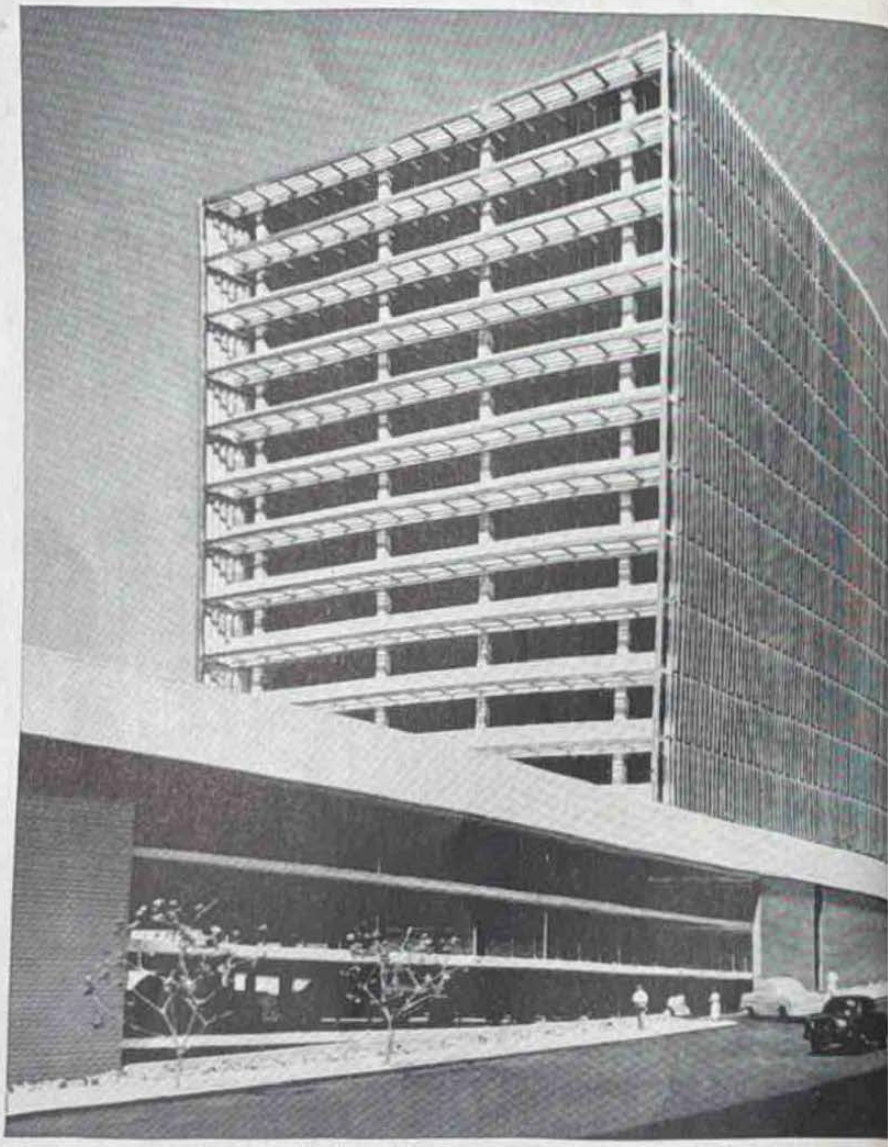
ANALYSIS AND ENGINEERING—The Kawneer engineering team considers every curtain wall application as unique. Each is subjected to a searching analysis. Such points as (1) the curtain wall's effect on load bearing elements, (2) adequate accomodation for wall movement due to wind load and temperature change, (3) weathering features and (4) integration of all components within the wall system are the subjects of careful study. The result of this careful analysis is a curtain wall design that provides the highest standards of performance while retaining the most expressive appearance of the architect's design.



Imperial Oil Company, Sarnia, Ontario, Canada
Arch.: John B. Parkin Assocs., Sarnia

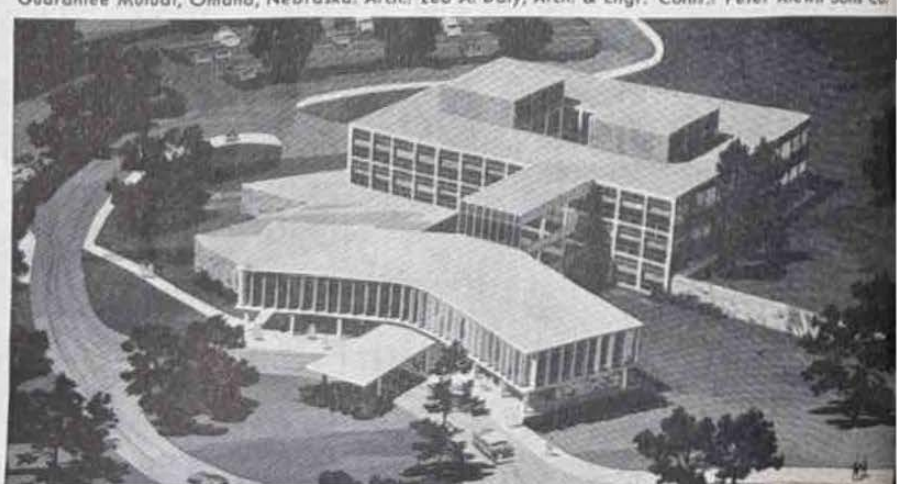
FABRICATION—Kawneer modern fabricating facilities and flexibility of production assure you of the most effective execution of your metal wall requirements. Whatever finish or material, whatever performance demands you make, Kawneer will provide the answer in its metal wall system.

INSTALLATION—Kawneer takes complete responsibility for engineering, fabrication and installation . . . assurance that your curtain wall will perform to your complete satisfaction.



Tishman Building, Los Angeles, Calif. Arch.: Victor Gruen Assocs. Arch. & Engr., A.I.A.

Guarantee Mutual, Omaha, Nebraska. Arch.: Leo A. Daly, Arch. & Engr. Contr.: Peter Kiewit Sons Co.





Mutual Benefit Life Insurance Co., Newark, N. J.
Arch.: Eggers & Higgins, F.A.I.A., Newark
Gen. Contr.: Geo. A. Fuller, New York City

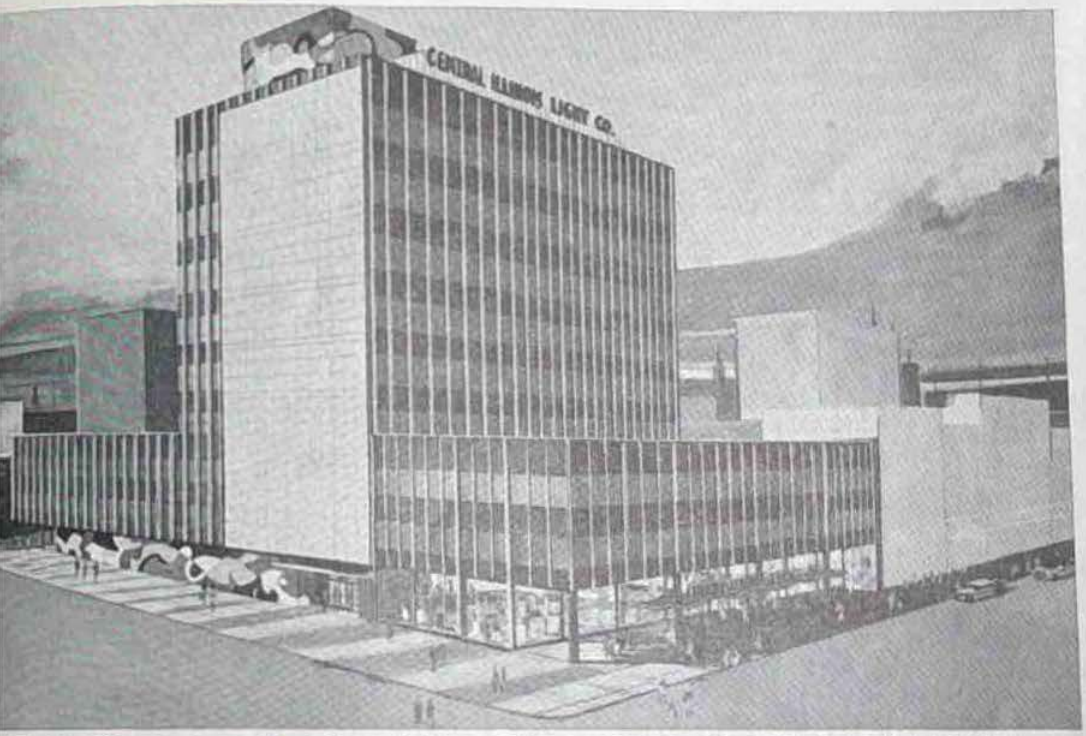
curtain wall system



BROAD PRODUCT RANGE—COMPREHENSIVE SERVICE

Kawneer as a single source for curtain wall means high quality units are available in aluminum, stainless steel or porcelain finish. You have a selection of roll formed, brake formed or extruded shapes. Specially designed operating sash with neoprene or vinyl weather seal or fixed glazing can be used. Insulated sandwich panels, custom-engineered sun control devices can be adapted to any job. The finest aluminum entrance units and aluminum or vinyl covered flush doors are also available.

Kawneer is your best single source for curtain wall components. Kawneer metal wall engineers will assist you to design, detail and specify curtain walls that will maintain your high standards of design and construction.



al Illinois Light Company, Peoria, Illinois. Gregg & Briggs, Architect and Engineer. General Contractor: V. Jobst & Son



Equitable Life Insurance Bldg.
San Francisco, Calif.
Arch.: Loubet & Glynn, San Francisco
Consultant Arch.: Irwin Claven, New York City

Geigy Chemical Co.,
Greenburg, N.Y. Arch.: Skidmore, Owings & Merrill, NYC. Contr.: Vermilya-Brown, NYC

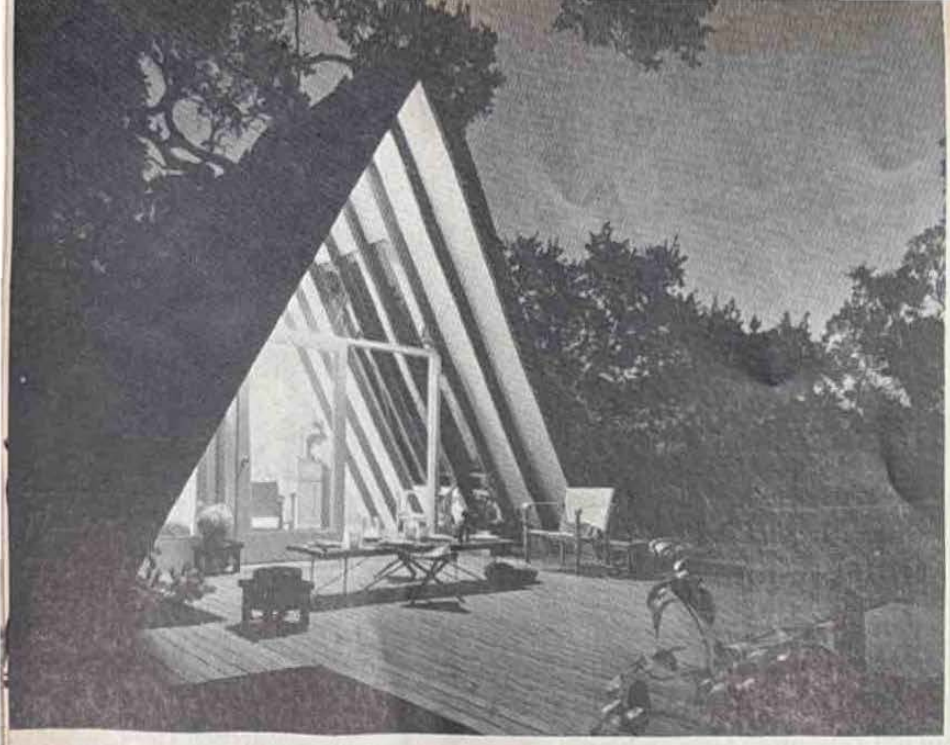


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Morley Baer photos

PREFABRICATED by San Francisco contractor, cabin is available for slightly more than $1,000 f.o.b.

A do-it-yourself cabin

PREFAB LEISURE HOUSE: Using a hammer, wrench and ladder, two persons can erect this all-purpose cabin in three to four days. It is suitable for metropolitan and suburban living, the mountains or the seaside; it can serve as a playhouse, garden shelter, pool cabana, ski hut, resort cabin and even a motel or rental unit.

The basic structure makes a shelter 18 ft. wide and 20 ft. from rear wall to front porch, or by the addition of two 4-ft. units, a 30x18-ft. area. Beams are all precut and can be bolted together with bolted holes already drilled into the beams. Battens are included.

Engineered to resist extreme winds and heavy snow loads, the house is built around a series of 11 triangular trusses of 2x6 Oregon fir, which eliminate the problems of stud walls and cross bracing. Exterior panels of marine plywood are secured by heavy 2x3 pine battens; plywood ¾-in. flooring and 2x6 porch flooring are applied to 2x6 joists. Campbell & Wong, architects.

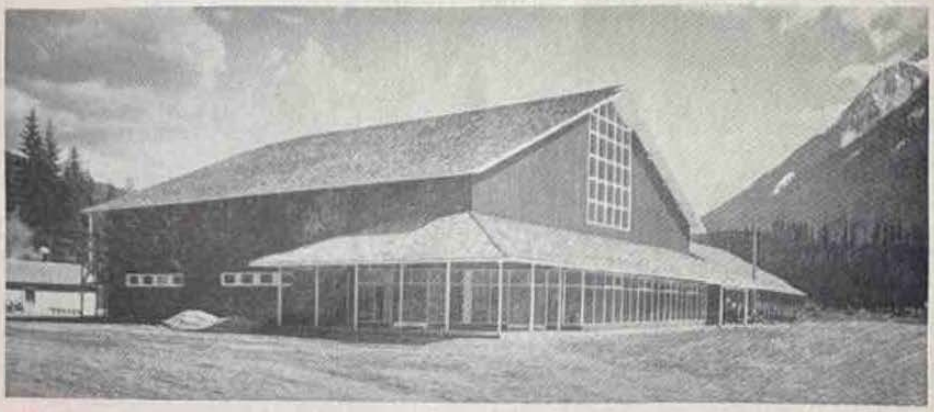
PROJECT ROUNDUP—

For civic-minded townsfolk

COMMUNITY HALL, DARRINGTON, WASH.: In planning a building to house a gymnasium, lounge and kitchen, the architect had to keep utmost in mind that it would be constructed by untrained labor.

The hall is of frame construction, with exterior siding of rough board and batten, 1x10 and 1x3. Covered with handsplit cedar shakes ¾ to 1¼ in. thick, the roof deck is made of 3x6 t&g on trusses at 17 ft., 4 in. o.c., the span being 110 ft. The gymnasium floor is 60x103 ft. and the balcony will seat nearly 1,000 spectators. Possible addition of a pool was provided for in the design. Harold W. Hall, architect.

HALL BUILT BY VOLUNTEER LABOR serves community nestled in lower foothills of Cascade Mountains.



Another do-it-yourself cabin

WEEKEND LOG CABIN: Although this "contemporary" was specifically planned for a sloping site near Lake Tahoe, it would feel right at home in the Pacific Northwest too. It has a construction cost of slightly more than $8 per square foot of living area and includes 1,000 sq. ft. of interior space and 240 sq. ft. of deck area.

In summer months the living area can be opened to the deck to make one large room Kitchen, bath and bedroom are on the main floor, with additional sleeping quarters in the attic. The main floor is raised above the ground level to provide space for a two-car garage or carport as well as storage and workshop space under the cabin itself.

Built on pier type concrete foundations, the basic structure is of five A-frames formed with Douglas fir logs cut from trees adjacent to the site. They are simply strapped to the founnations at the bottom and are notched into and strapped to each other at the roof peak. The same heavy timbers are used to tie the A-frames together at the floor line and the floor joists also serve to provide rigidity to the frames, set 10 ft. o.c., with purlins across to receive t&g sheathing.

Exterior walls (actually the roof) are shingled, although shakes could be used just as easily, and the flat portions are finished with built-up material and asbestos cap sheet. All interior partitions are frame, windows are wood and the log cabin character is retained by use of a ladder instead of stairs. The kitchen is separated from the main living areas by a counter and hanging cabinets of wood. One of two sinks in the kitchen is deep for small laundry washings and additional space for such facilities is found under the house adjacent to the garage.

Sleeping quarters in the attic area open out onto a flat section of roof which can be used for sun bathing or outdoor loafing. Windows also offer access to the flat deck for wintertime removal of snow. Central heating is provided by a butane floor furnace located between the kitchen and bath glamor of an open fire. Harold Onstad, architect.



ENTRANCE IS VIA RAMP and all floor levels are above average snow line. Deck faces paved court used for games.

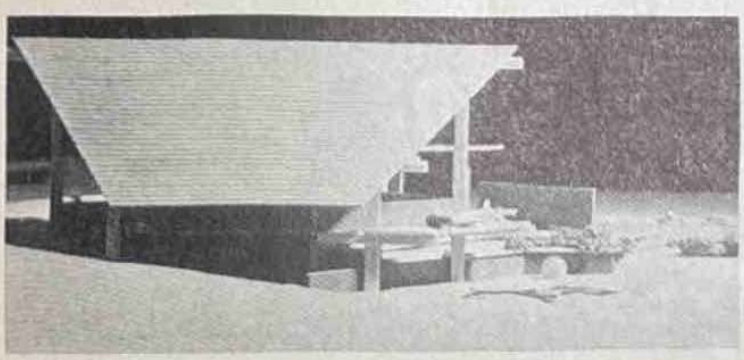
RECREATION up and down the coast

For a change of pace in living

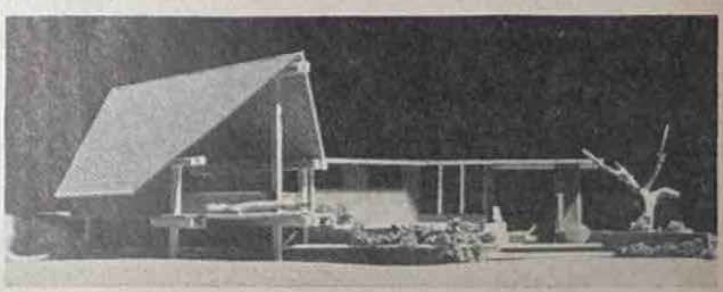
BEACH HOUSE, NESCOWIN, ORE.: Conceived as a retreat from the daily chores of city life, the structure was designed to be as free as possible from housekeeping problems; to be imaginative, both in form and in material; and to take advantage of a spectacular site of mountains and pounding surf.

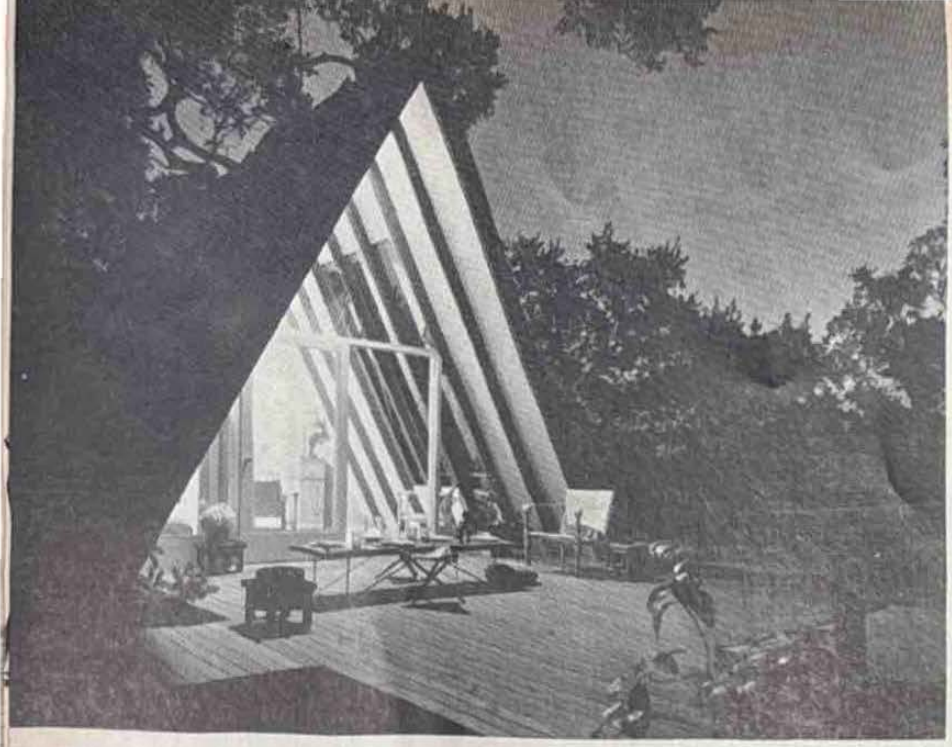
The young family includes three small boys, whose bunk room sleeps six when needed; the guest loft sleeps four. Kitchen drudgery is lessened by the closeness of a large family type dining table and a unit which encloses all necessary appliances.

Construction is of heavy rough-sawn posts and beams, covered with 3-in. t&g hemlock decking which is used on the floor as well as the roof. The sloping portion of the roof is treated with shakes; the flat section is built up. Bleached cedar boards on the exterior have been left to weather. Donald Blair, architect.



UNUSUAL DESIGN DICTATED by architect's desire to give client complete change from typical city residence.







Morley Baer photos

PREFABRICATED by San Francisco contractor, cabin is available for slightly more than $1,000 f.o.b.

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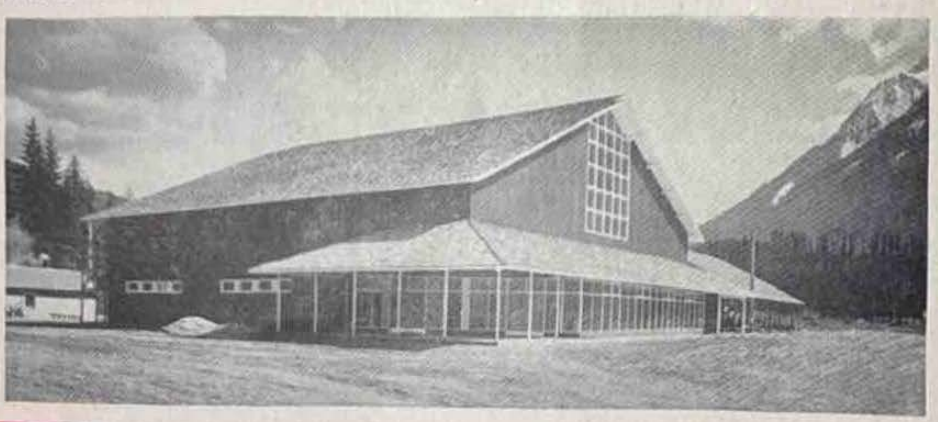
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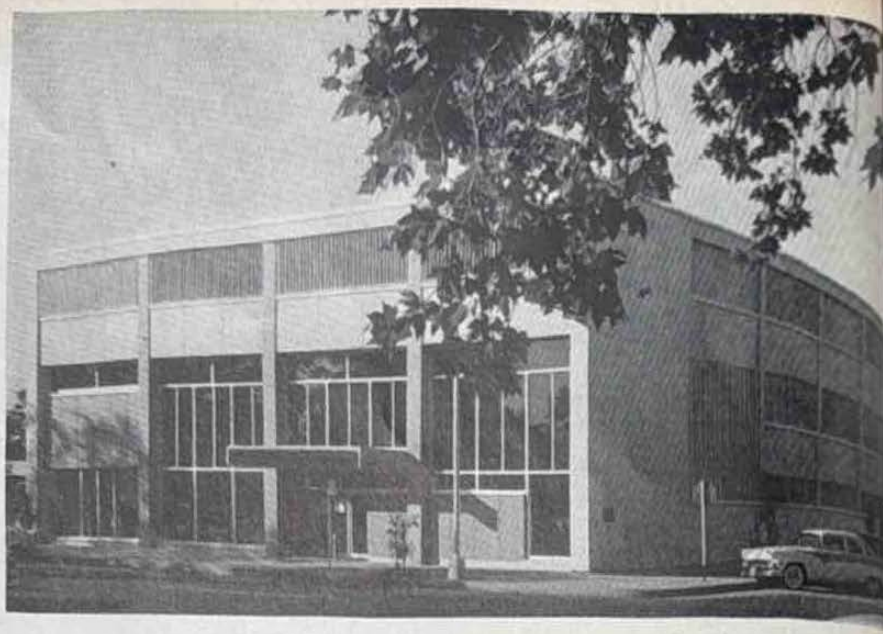
MITCHELL VAN BOURG, AIA
Architect

H. J. BRUNNIER
Structural Engineer

G. L. GENDLER
Mechanical Engineer

STEPHEN LINDHEIM
Electrical Enigneer

NOMELLINI CONSTRUCTION CO.
General Contractor

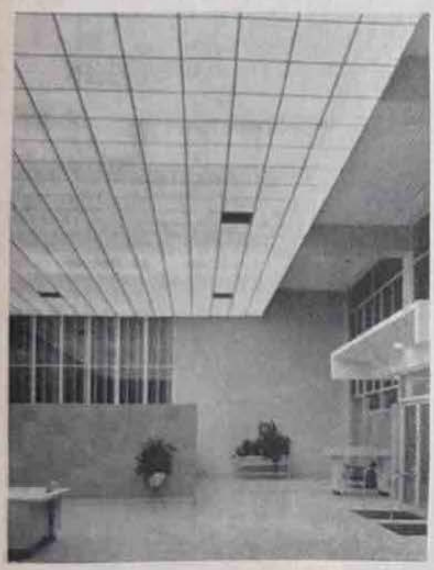


ADJUSTABLE ALUMINUM LOUVERS provide sun control; laminated low transmission glass protects northeast exposure at main lobby.

Phil Fein photos



BASIC LIGHTING SYSTEM is installed in 2x2-ft. modular grid suspended ceiling. Fixtures are insertable at any point by lifting out acoustical panels. Underfloor ducts every 6 ft. accommodate power, telephone, communication, signal and future TV circuits on all floors.



Tomorrow's design today

Modesto Irrigation District Office Building
Modesto, California

THE PROGRAM called for a highly flexible, special purpose public building in a hot agricultural community to which the owner supplies all electric power and both irrigation and domestic water. The client plans to occupy the structure for 20 years by utilizing progressively advanced equipment and operational techniques and then for 30 more by physical expansion; thus long-range amortization criteria had to be applied to problems of internal space rearrangement and of maintenance characteristics, both inside and out.

Provision also had to be made for customer and staff parking, public access for drive-in cashiers, routine business and multipurpose use of an assembly hall at any time. Finally, the architect was instructed to design a building which would not make uncomfortable the farmer-customer who comes to town in work clothes.

The result has been a three-story and basement building of reinforced concrete, planned for a fourth floor addition by means of movable metal partitions and a coordinated mechanical-electrical floor and ceiling system at each level, with a single vertical utility shaft at the center. The structure is virtually free from any permanent interior lateral walls. Its exposed monolithic columns are in contrast with spandrels and walls of quartz crystals in 2-in. thick precast panels used as forms and poured solid.

OUTLINE SPECIFICATIONS

Structure: Reinforced concrete, 3-story and basement, 122x82 ft.

Exterior Walls: 2-in. precast concrete with gray and white quartz facing, aluminum trim.

Roof: Flat, vermiculite insulation over membrane with 5-ply composition.

Windows: All-vent aluminum sash, precast white concrete sills, adjustable aluminum sun control louvers.

Floors: Concrete slab covered with terrazzo in public areas; vinyl, rubber, ceramic and cork tile elsewhere except carpeting in directors' room.

Interior Walls: Plaster on metal lath over furring, with marble, Flexwood, Novoply, perforated metal acoustical panels in public areas; movable prefabricated metal partitions (Weber Showcase & Fixture Co.).

Ceilings: Suspended modular acoustical, translucent plastic luminous, plaster.

Heating: Gas fired heat pump, central heating and air conditioning system based on reverse cycle operation of refrigeration compressor.

Total Area: 44,050 sq. ft.

Total Cost: $819,675.

Cost per Square Foot: $18.60.

Date of Completion: August 1956.



Dean Stone-Hugo Steccati photos

Belvedere, California

JOHN LORD KING, AIA, Architect

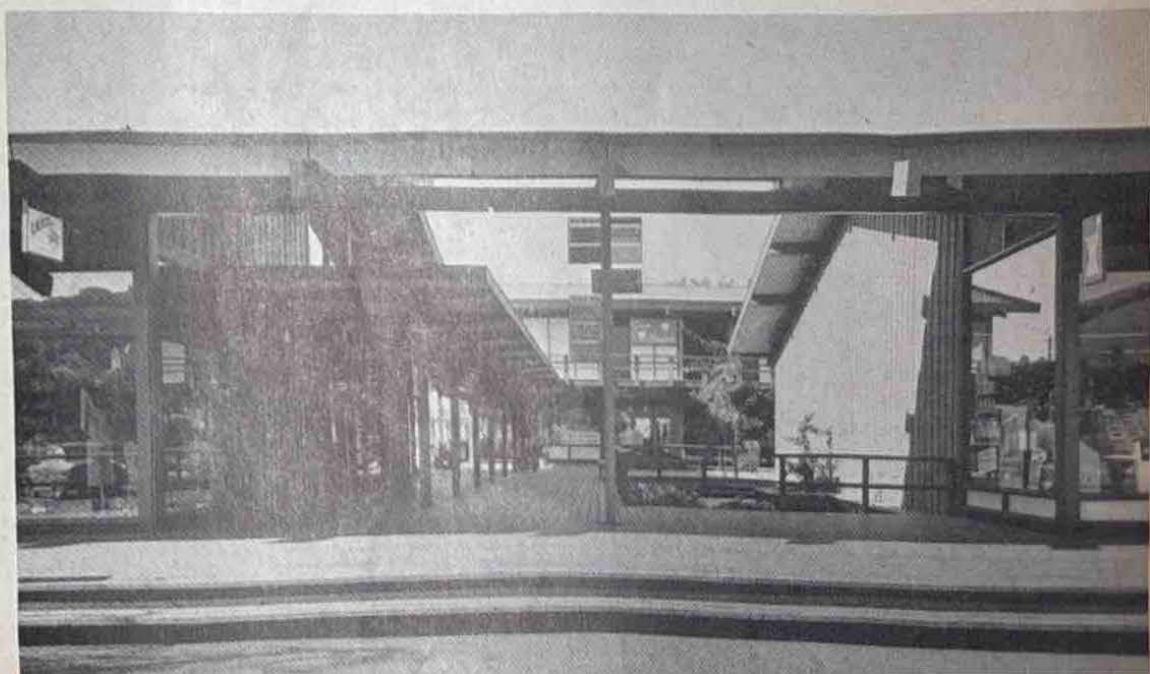
PUNNETT, PAREZ & HUTCHISON, Civil Engineers

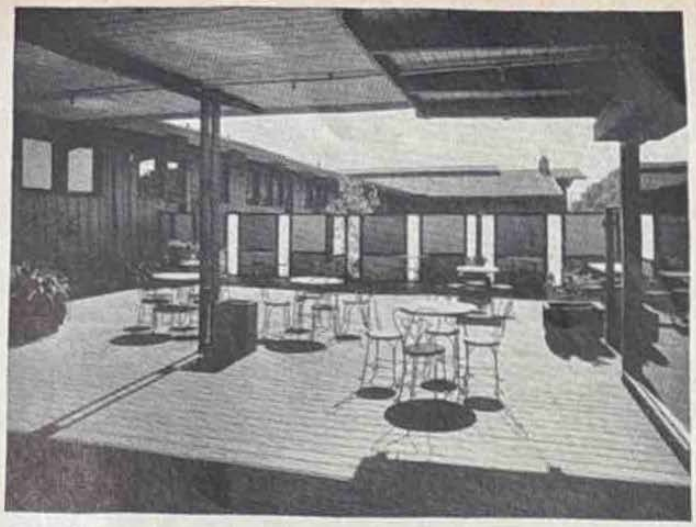
ISADORE THOMPSON, Structural Engineer

KELLER & GANNON, Mechanical-Electrical Engineers

THOMAS D. CHURCH, Landscape Architect

SHARP & ROBINSON, General Contractors





COVERED WALKWAYS which cluster around courtyards form wind screen for terrace cafe outside restaurant.

An eloquent architectural understatement

THIS SHOPPING CENTER has a unanimity and graceful simplicity seldom achieved in such a project; furthermore, the overall operation has proved to be unusually financially successful. Here is the architect's thinking behind the center:

"The Boardwalk was designed to meet the rapidly growing retail needs of the south end of the Tiburon Peninsula and the city of Belvedere. A thorough economic study indicated that about 44,000 sq. ft. of space, together with the existing and potential shopping area in the town of Tiburon, would handle neighborhood requirements of the anticipated population.

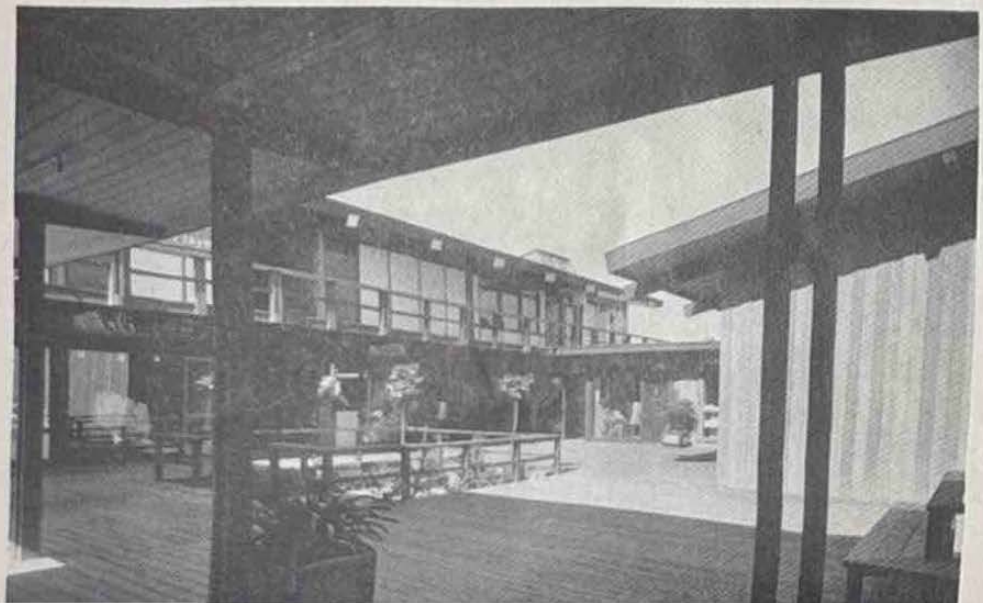
"The site, a flat triangular piece of four acres, was ideally located on the Tiburon Highway, with excellent access to Belvedere and immediately adjacent to the balance of the commercially zoned land in Tiburon. Access roads to the parking area are so located that they can tie in to future expansion across Beach Road and the shops in Tiburon. Geographically the site was developed with a somewhat residential character to act as a buffer and green strip between the housing areas of Belvedere and industrially zoned railroad property on the east side of Tiburon Highway.

"The site in the old days was a deep water lagoon which, over the years, silted up and has been recently filled. As a consequence foundation problems were difficult. The cost of piling in the deep silt was considered prohibitive; thus a gridiron of concrete pad footings, spaced 20x40 ft., was placed upon the crust of the new fill, with precast concrete cantilevered foundation girders forming the support for a wood deck 3½ ft. above existing grade. This height allowed for initial settlement and since each foundation girder is shimmed up about 8 in. from its footing and held in place by stirrups, the expected differential settlement is extremely easy to handle.

"The sloping parking lot is 18 in. below the center proper and is readily accessible at strategic points by cantilevered wood steps. This elevation increases the identity of the stores and minimizes the sea of cars in front. At the service side of all shops, the existing grade was maintained, thereby providing a loading platform at normal height.

"All of the shops are tied together

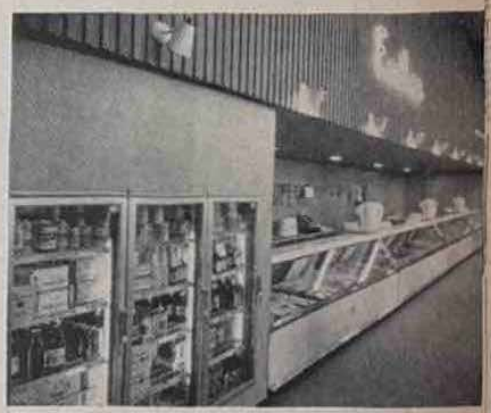
REDWOOD EXTERIOR SIDING reflects general residential character of area. Roof structure is of 2x6 t&g fir on wood purlins; boardwalk is of edge-grained vertical fir.





AWARD OF HIGHEST HONOR goes to Boardwalk in Northern California AIA competition. Architect gives much credit to owner, David W. Allen of Belvedere-Tiburon Development Co., "as it was largely due to his imagination and confidence in the area that the project came into being." Juror Pietro Belluschi's comment: "I think the jury was delighted to see the professional hand of architects in this particular field of buildings. We hope that this specific project may serve, in a sense, as an example of what can be done to make shopping centers an attractive addition to any community."





by covered walkways and those clustered around the courtyards form a wind screen which affords a pleasant terrace cafe outside of the restaurant, used on sunny days even during the winter.

"The structural frame supported on the cantilevered foundation beams consists of steel bents 20 ft. on centers and spanning either 30, 40 or 90 ft. For flexibility, it was decided that the frame should be rigid in itself to allow complete freedom of planning and minimize the difficulties inherent in future tenant changes. The exterior deck or boardwalk from which the center gets its name is of edge-grained vetrical fir with ¼-in. cracks between boards, simplifying the drainage problems. Narrow sidewalks and approaches to the steps on the parking lot level and the courtyards are paved with exposed aggregate concrete.

"A uniform pattern of fluorescent light was provided throughout the store areas, with a continuous strip of incandescent downlights over all show windows. The canopies in which these downlights are mounted cantilever out through the exterior wall and act as light coves to illuminate the covered walkways. This has proven to be adequate at night, but does not conflict with the desired intensity within the show windows themselves.

"Piped services are provided in a continuous strip at the rear of all stores, with gas, power, water and waste suspended from the cantilevered foundation beams. Again, the structural system offers utmost simplicity and flexibility in the arrangement of any particular plumbing requirements.

"One of the earliest considerations in design was the careful control of all tenant signs. The choice of eight related colors was given to each tenant, but the location and size of the sign was limited by the panels above

the show windows of the store fronts. Hanging signs perpendicular to the fronts were provided in a uniform size for identification along the boardwalk. Any lettering on glass was prohibited. Bulletin boards at strategic locations seem to be adequate and a source of considerable interest to shoppers, even more so than signs which might be pasted upon the inside of windows.

"In keeping with the residential character, a great deal of attention was paid to landscaping. Trees for shade or windbreaks have been planted throughout the parking lot, along the street and within the courts. While most low planting is tough ground cover to withstand public traffic, there are areas where colorful flowers and shrubs have been used which can be changed to follow the seasons.

"Prior to the initial planning of the Boardwalk, it was contemplated that about two-thirds of the present retail area would be built. However, during construction there was so much interest in the project that it seemed logical to complete the building as designed, even though some areas might not develop their full retail expectancy for a number of years. At the end of 10 months, every store is paying above the minimum rental and the gross volume of business is 25% above the original estimate."

OUTLINE SPECIFICATIONS

Structure: Steel bents 20 ft. o.c. on concrete pad footings on grade and precast concrete cantilevered foundation beams. One story, some areas with mezzanines for selling and storage; 4,000 sq. ft. of two stories.

Exterior Walls: Resawn redwood siding with fir trim.

Roof: 2x6 t&g fir on wood purlins covered with tar and gravel.

Doors: Solid core pine, exterior; hollow core, interior.

Floors: Vinyl or asphalt tile over wood.

Interior Finish: Redwood, plywood, plasterboard with fir trim on drywall partitions.

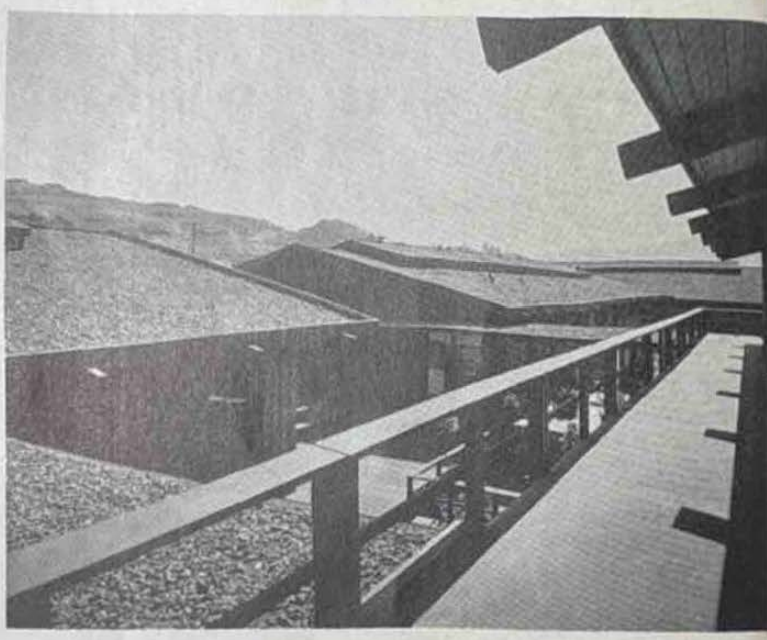
Ceilings: Exposed wood decking except for few areas such as bank and underside of mezzanines where acoustical treatment is used.

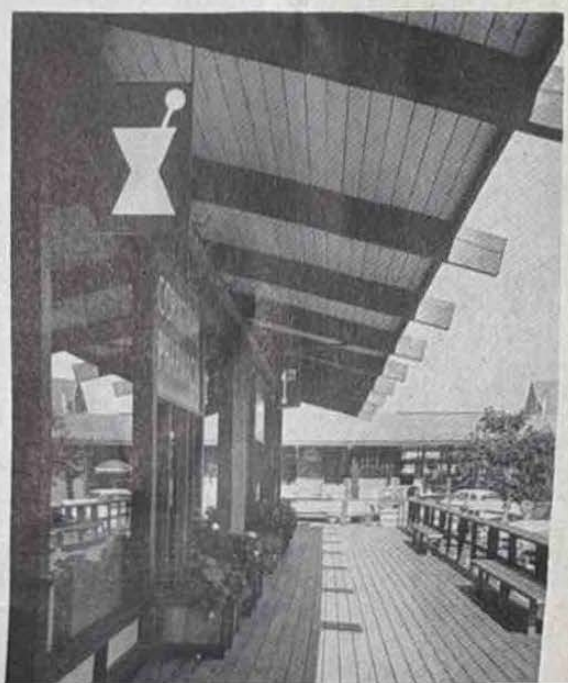
Heating: Gas fired unit heaters or independent forced warm air systems.

Total Area: 45,450 sq. ft.

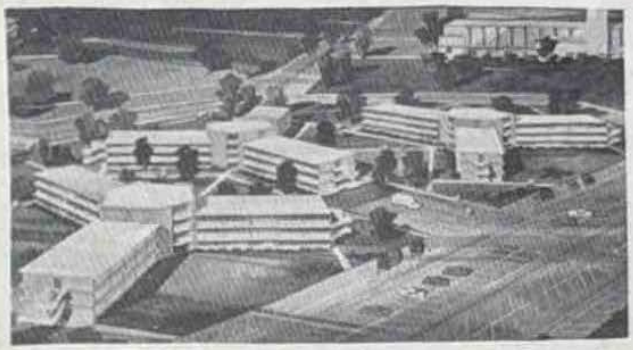
Date of Completion: March 1956.



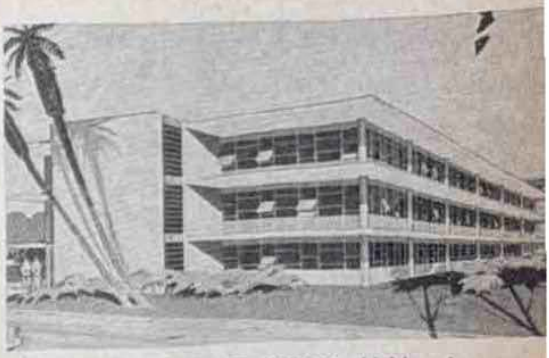




CONTINUITY AND CLEAN LINES of overall project are clearly evident in these photos. Cost data are not of much value since general contract included complete finish in many units, including bank, and also included work not part of center which was not segregated.



DORMITORIES ARE now underway for Loyola University, Los Angeles. Lift-slab has been specified for fast, economical and fireproof construction. Architects: Albert C. Martin & Associates.



LIFT-SLAB'S CANTILEVER DESIGN shields windows with protective overhang in Administration Building for Pasadena city schools. Architects: Neptune & Thomas.

LIFT-SLAB--a progress report by first firm to make this method available on West Coast

LIFT-SLAB CONSTRUCTION is coming of age. Structures totaling more than 16 million square feet were lifted as of December 1956 by licensees of United States Lift Slab Corp. and International Lift Slab Corp. as compared with four million square feet lifted as of January 1955.

Vagtborg Lift Slab Corp., first to make the method available on the West Coast, reports that the increasingly tight supply of steel in 1956 served to focus attention on this type of construction, along with the development of new and improved techniques.

For instance, last year Vagtborg demonstrated the practicability of lifting on concrete columns, using a new, wide-head jack, adjustable to round or square columns. Fitted to 20-in. square precast concrete columns, the new jacks lifted 67 tons each during construction of a parking structure in Oakland. This is believed to be the heaviest single jack loading yet put on a lift-slab column, although it did not extend the jacks to full capacity, according to company officials.

Other lifts on concrete columns included the multi-million dollar Ramo-Wooldridge project in Los Angeles and the Aerophysics Corp., Goleda, which utilized round concrete columns fabricated by a unique spinning process. Significantly, the very first lift-slab project in Mexico—in 1956—also used concrete columns.

Last year also marked increased application of prestressed concrete slabs. Particularly noteworthy was the manner in which William Simpson Co. used both prestressed and mild steel in the same slab during construction of North American Aviation's new headquarters in El Segundo, Calif. Conventional steel reinforcement was used in each slab's 30-ft. span, while the 35-ft. span was post-tensioned with wrapped steel cables supplied by Prescon Corp.; Bowen & Bowen were engineering consultants.

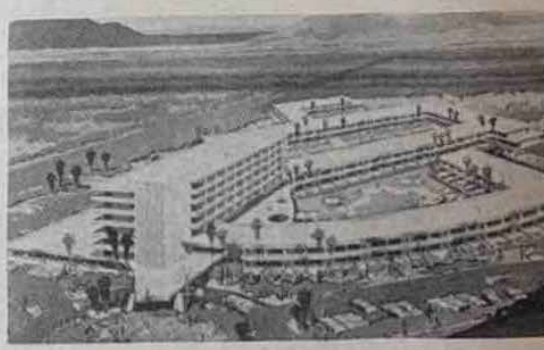
Another North American Aviation project, the Autonetics Division Building in Downey, Calif., earned still another lift-slab distinction in 1956 with 140,000 sq. ft. poured and lifted within one month. General contractor for the record-breaking performance was Diversified Builders, Inc., a division of Macco Corp., with Vagtborg the lifting subcontractor.

Quality, as well as speed, was improved in 1956. Typical was the elimination of a previous tendency toward a deflection in the center of each slab. A carefully calculated "crown" is now poured in the center, resulting in a level upper surface despite any slight deflection of the slab.

Definite improvements in corrugated paper boxes used in coffered lift-slab were achieved. Extensive research produced new methods of cross-ply reinforcement and waterproofing which have virtually eliminated box failures. Today designers can count on a perfect waffle-patterned ceiling, along with the proved struc-



RECORD NUMBER of slabs will be lifted in office-parking structure planned for Las Vegas this year. Architect: Kenneth N. Lind, AIA.



ONE OF LAST YEAR'S most spectacular lift-slab projects—Valley Ho Hotel, Scottsdale, Ariz. Architects-engineers: Edward L. Varney & Associates.

the show windows of the store fronts. Hanging signs perpendicular to the fronts were provided in a uniform size for identification along the boardwalk. Any lettering on glass was prohibited. Bulletin boards at strategic locations seem to be adequate and a source of considerable interest to shoppers, even more so than signs which might be pasted upon the inside of windows.

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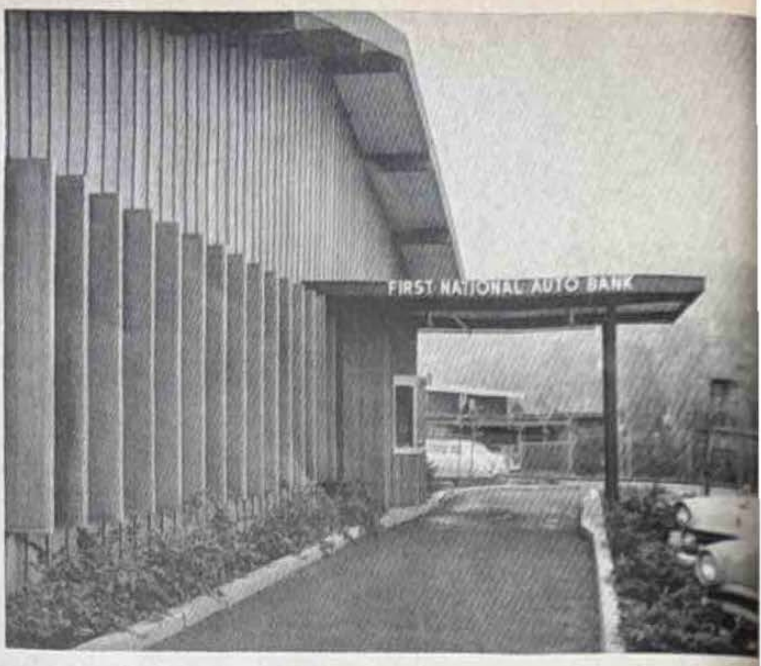
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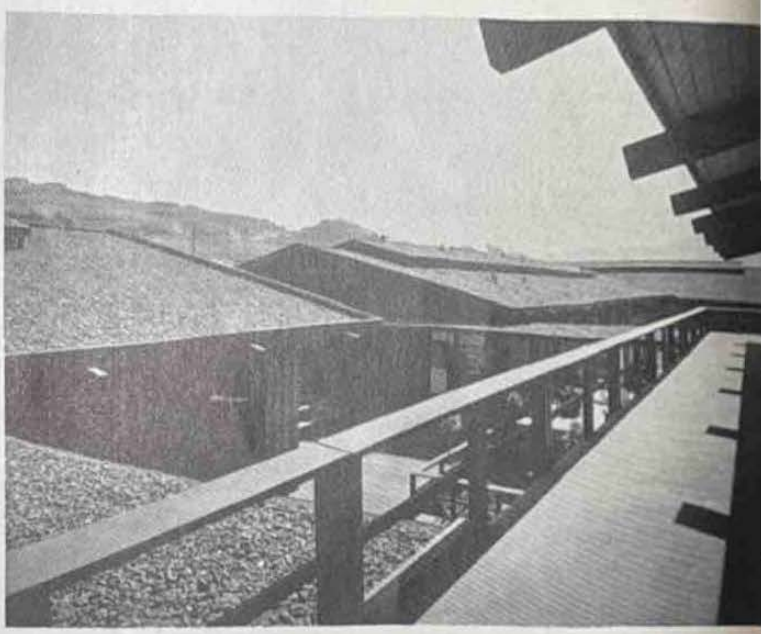
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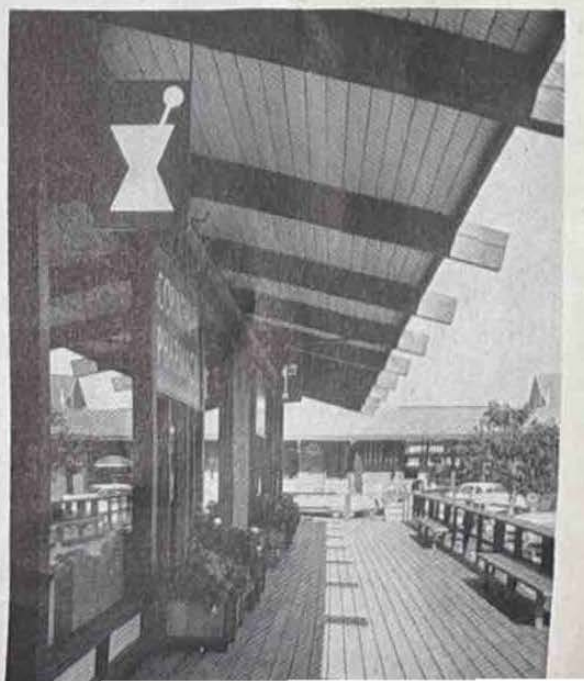
Heating: Gas fired unit heaters or independent forced warm air systems.

Total Area: 45,450 sq. ft.

Date of Completion: March 1956.







CONTINUITY AND CLEAN LINES of overall project are clearly evident in these photos. Cost data are not of much value since general contract included complete finish in many units, including bank, and also included work not part of center which was not segregated.

tural and acoustical benefits of coffered lift-slab construction.

Improved techniques were accompanied by a widening application of lift-slab in 1956. Near the year-end, for example, United States Lift Slab Corp.'s projects under contract included schools, dormitories, hospitals, apartments, residences, hotels, motels, warehouses, office buildings, garages, parking structures and miscellaneous government buildings.

Lift-slab also extended its geographical frontiers in 1956. Projects were reported from practically every state in the union and licensees of the Youtz-Slick method were active in Australia, Hawaii, Mexico, Cuba, Iceland and Puerto Rico. To Canada went the honor of lifting the first eight-story building.

An increase was noted too, in the number of architects and engineers planning lift-slab projects. Today California leads the world in lift-slab designers, with Texas, Canada and Ohio following in order.

New multi-stage techniques will probably mean taller buildings in 1957. An 11-story building has been planned for Las Vegas and it is reported that lift-slab is being considered for a 22-story apartment building to be erected on famed Sunset Strip in Los Angeles.

Other developments to look for this year include the use of lift-slab in raising bridges above flood levels, the construction of double-decker, lift-slab highways and further application of the tilting of lift-slabs in building sports stadiums.

Ed. note: Lift-slab made its debut in the Northwest in the summer of 1953 with the building of the Roosevelt Grade School in Missoula, Mont., reported in Construction News Bulletin, forerunner of PA&B, for September 19, 1953.



IN RECOGNITION of firm's designing more than one million square feet of lift-slab construction, J. Edward Martin (l.), chief of engineering, is congratulated by Robert C. Field, vice president of Southern California Chapter, AIA. Special award was made to Albert C. Martin & Associates at recent luncheon by C. Henning Vagtborg (r.), president of Vagtborg Lift Slab Corp.

Lift-slab makes gains in school projects

The growing importance of lift-slab in school construction throughout the country is dramatically told in photographs and charts in a 24-page booklet issued by a licensor, United States Lift Slab Corp.

In 28 states, Canada and Cuba, 117 educational structures have been completed using the Youtz-Slick method. These projects range from one to five stories and from 4,633 sq. ft. to 365,723 sq. ft., the total being 4,457,951 sq. ft. as of July 1, 1956.

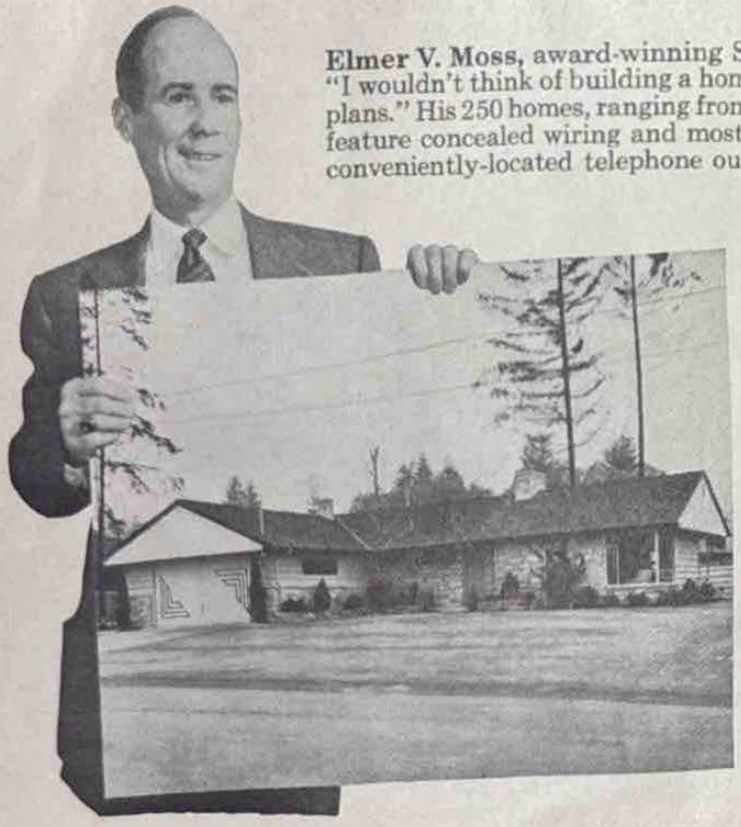
California, with 16, leads the West in the number of school jobs. Montana has two; Oregon, one; and Washington, one.

Economies of time and money have been found to exist in not only the smallest utility type structures, but also in the larger and more ornate ones, the booklet points out.

The chart below cites the number of architects and engineers who have designed lift-slab projects of all types.

State	Architects	Engineers
Calif.	37	26
Idaho	1	1
Mont.	1	
Oregon	3	3
Wash.	6	3

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.

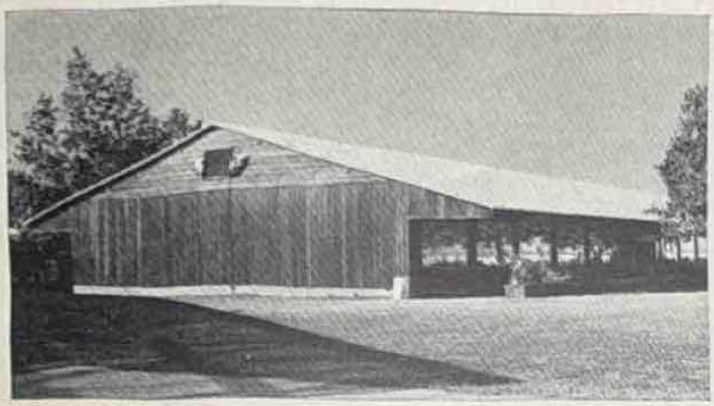
Concealed wiring, built-in outlets, color telephones, kitchen and bedroom phones — these are features your buyers look for! Leading architects and builders include some or all of these in every new home. They know how much telephone planning adds to the value of a home . . . that it makes for better-built homes and satisfied buyers.

Pacific Telephone

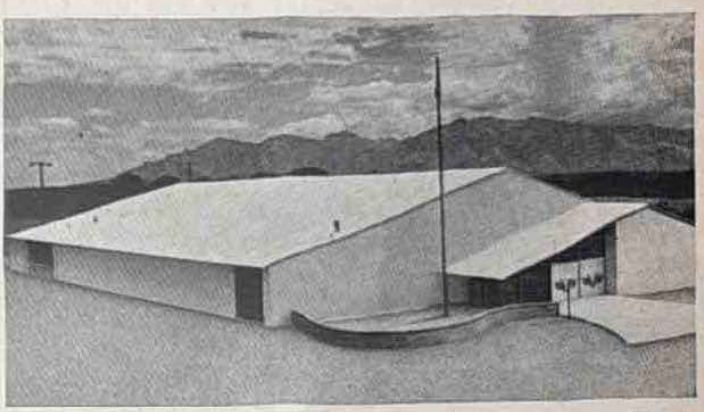
We'll be glad to help you plan built-in telephone facilities. Just call our business office and ask for our free Architects & Builders Service.

It pays to include Telephone Planning in every home you build!

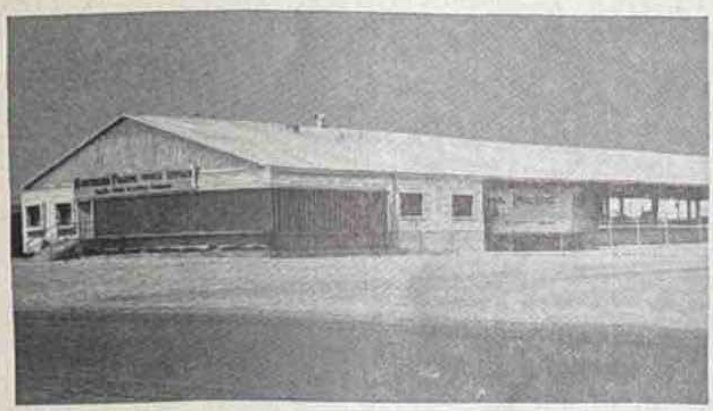
check these four good reasons for building with steel



ECONOMY—Real dollar savings are possible when you build with steel. Rigid frame construction with post-free interiors, gives you almost 100% use of the enclosed area. Speed of construction puts the building to use faster . . . and there's no costly maintenance problem with steel. That's why the District Fair Committee, at Turlock, California, specified steel for the functional, economical fair building shown above.



VERSATILITY—The building above is an example of the flexibility of use possible with steel structures. This is a combination gymnasium, auditorium and classroom in Tucson, Arizona. Steel buildings are being constructed for *every* purpose in all kinds of businesses, industries and institutions. And remember, the use of steel construction allows for the easiest and most economical expansion of your building when needed.



STABILITY—The strength and rigidity of steel makes it the ideal material to use in the construction of industrial plants, warehouses and shipping sheds. It combines structural strength with freedom of layout and movement in your building. Rigid frame construction provides a stable structure which withstands battering winds, weather and accidental knocks. That's why steel was selected for the loading depot, above, under lease by Pacific Motor Trucking Company in Fresno.



BEAUTY—The attractive looking office building above, located in Bakersfield, is just one example of the many smart architectural designs possible with steel. NOTE: The architect-designed buildings shown on this page were constructed from Butler Manufacturing Co. pre-engineered structural systems using United States Steel Roofing, Siding, Plates and Sheets. When *you* build, specify the *one* material that gives you *all* the important building advantages...steel...United States Steel.

For offices, plants, theatres, farms, churches, schools . . .

Give your buildings the advantage of steel

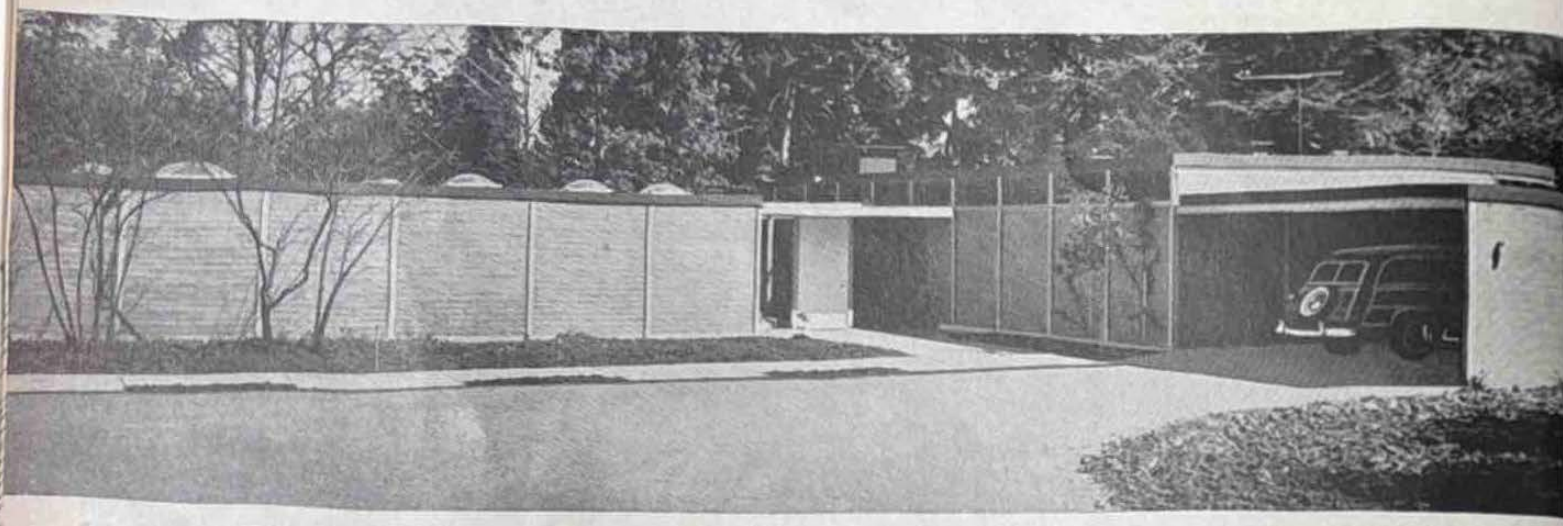
USS

United States Steel Corporation • Columbia-Geneva Steel Division
120 Montgomery Street, San Francisco 6

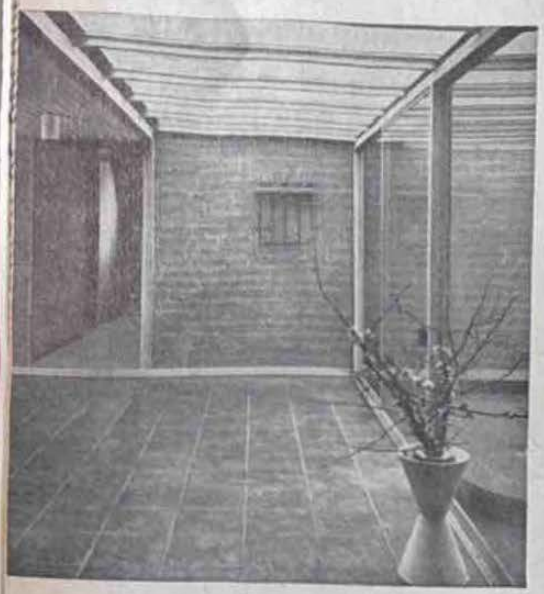
UNITED STATES STEEL



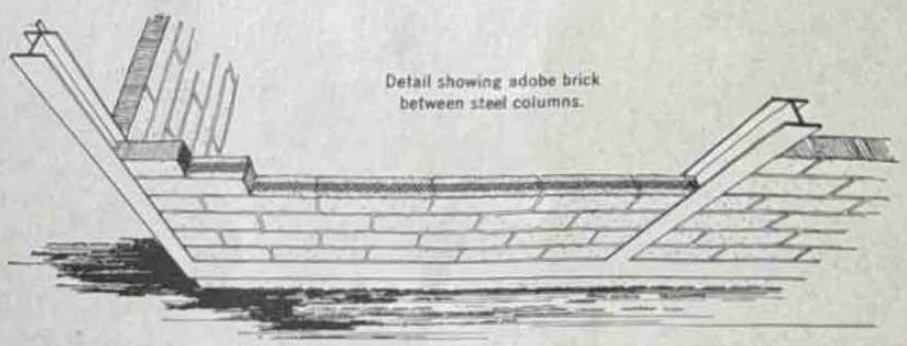




This Atherton, California, home combines the native qualities of both steel and adobe brick—the strength and versatility of steel and the insulating ability of adobe. The owner has a home that is attractive, permanent, fire and termite resistive, and requires the barest minimum of upkeep. Construction cost, in 1955, was $11.34 per square foot of living area. The home is arranged in a bi-nuclear design with living and sleeping quarters separated by a glass entry.



The speed and ease of steel construction was an important plus-factor since the home was built during the heavy winter rains of 1955-56. Steel framing members were welded together at the plant and delivered to the site where San Jose Steel Co., Inc., erected the complete steel frame in just two days. The roof was placed during the third day and interior work continued uninterrupted by outside conditions.

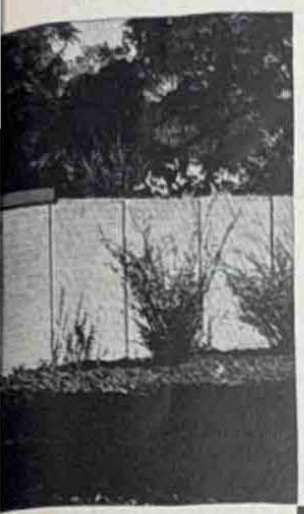


The adobe bricks, 3½" x 4" x 16", were fitted directly into the H-section steel columns. Expanded metal lath was used on every other course of brick to give greater rigidity to the wall. Since the adobe bricks formed non-bearing walls, only a single rather than the usual double course of brick was required. United States Steel vertical columns used were 4"H13#; horizontal beams were 6"WF15.5#. The module was 6 feet, 9 inches.

ARCHITECTS & ENGINEERS: Write for your free copy of *"New Horizons for Home Building...With Steel."* This new booklet contains case histories of architect-designed steel homes and information on building codes, specification data and advice on the maintenance and painting of steel. Write: Architects & Engineers Service, Room 1260, United States Steel Corporation, Columbia-Geneva Steel Division, 120 Montgomery Street, San Francisco 6.

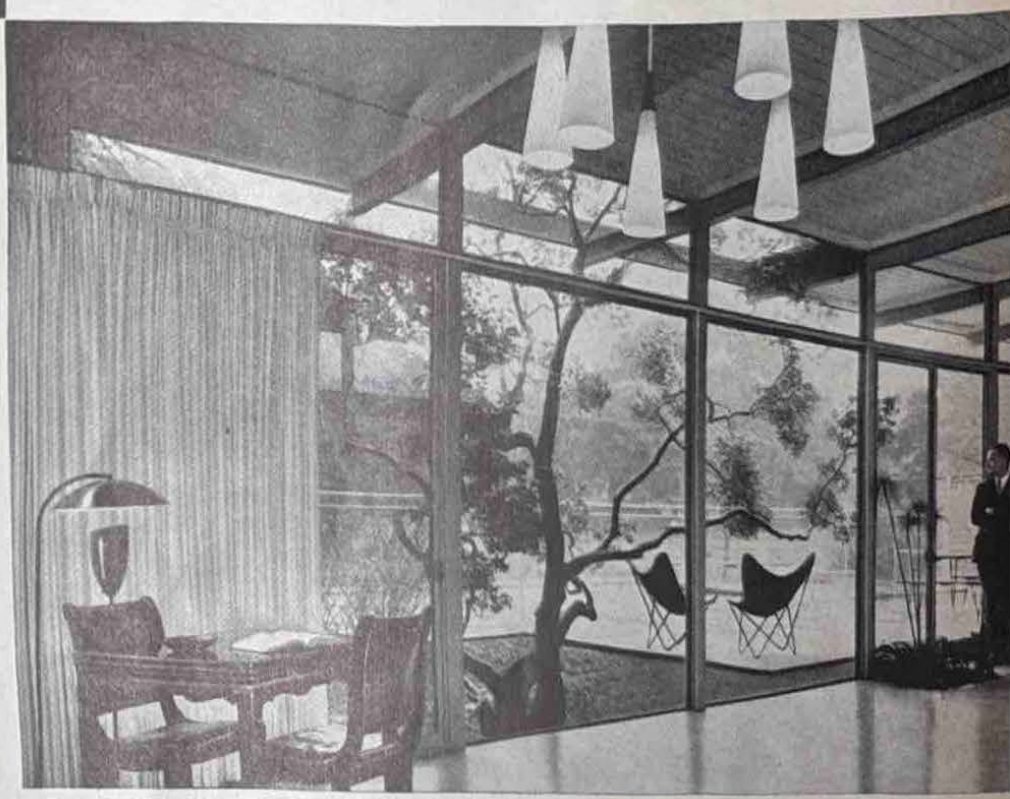
News of another steel home from United States Steel

Teaching old materials new tricks...with steel



The use of adobe brick, one of the oldest home building materials, and steel, one of the newest, combine in this house to achieve a new level of originality in residential architecture.

This unique combination of adobe and steel resulted in both artistic and practical advantages. Unrestricted by conventional building methods, this 3,474 square-foot home is designed for indoor-outdoor integration and maximum design flexibility.



The United States Steel shapes used in this home are sold by steel jobbers in your locality.
Designer: Don Knorr, Knorr Associates, San Francisco
Engineer: John Brown, San Francisco
Builder: Whelan Construction Co., Redwood City

Constructed as a speculative home, steel gave the contractor the rare opportunity of building the house so that it was adaptable to the demands of the buyer. Steel framing eliminates the need for load-bearing walls, which allows the new owner to adapt the interior to his individual needs. Walls in steel-frame homes can be free-standing storage cabinets or even drapes can be used to divide interior space.

Western homes of the future are now building with steel... **UNITED STATES STEEL**

Materials – Products – Tools

and the latest literature

SKYLIGHT: Believed to be the first major development in skylighting since the introduction of Skydomes by Wasco in 1950, a material has been developed to provide controlled daylighting sought by architects and engineers. To be used in Wascolite Reflectadomes, it reduces glare and the variation in light received at different hours of the day as well as objectionable heat.—Wasco Products, Inc.

(Item No. 1)

JOIST HANGER: Cutting installation time as much as 50% is a feature of the Teco-Cal joist hanger formed from heavy gauge galvanized sheet metal, coming complete with special 1½ in. nails for mounting. The hangar is said to eliminate shrinkage problems encountered with most conventional types and provide a stronger connection. Only two sizes are required to handle all 2-in. dressed lumber from 2x6 to 2x14. Flush joints, top or bottom, are easily achieved without mortising.—Timber Engineering Co.

(Item No. 2)

SHOWER SEAT: Here's an answer to that problem of washing and drying feet and legs without standing in an awkward position—a stainless steel shower seat which will support any human weight. The Saf-T-Showr folds flush against the wall when not in use and measures 14⅜x13¼ in. It fits into a 4⅜-in. recess between studs, attaches with four lag screws and, when folded flush, provides a convenient ring for washcloth or towel. The recessed portion of the seat is watertight when closed and can be used to house soap, shampoo, etc.—Safety Seat Division, House of Hospitality.



(Item No. 3)

SPACE DIVIDERS: A flexible group of go-together hardwood modules can be used as a space divider or as furniture. Any or all of the 15 basic Wonderwall units can be grouped in a variety of arrangements. Included are open-shelf, closed-shelf, pegboard-backed wardrobe and drawer type units with nine of the units having two-sided utility.—I-XL Furniture Co.



(Item No. 4)

BATHTUB: A porcelain on steel bathtub with end outlet permits installation of trap and waste line above the floor. Called the Huntington, it offers economy in installation, particularly in slab type construction, by eliminating the necessity of runing waste lines under the slab. Tub was developed by Ingersoll-Humphryes in conjunction with the research and development committee of the NAHB. — Ingersoll-Humphryes Division, Borg-Warner Corp.

(Item No. 5)

JOINT COMPOUND: For curtain wall construction and on surfaces where adhesion is difficult, A. C. Horn has developed an expansion joint material and caulking compound that elongates 325% through the normal temperature range of 70 deg. to 80 deg. Called Hornflex, it maintains a tight seal of joints by squeezing and stretching with any movement. The company says it sets to touch in 12 hours.—A. C. Horn Co., Inc.

(Item No. 6)



WALL TILE: To provide an interesting note for tile walls in many locations—schools, libraries, auditoriums, home nurseries, recreation rooms, etc.—Mosaic has produced a new series of colorful glazed ceramic inserts. These multicolor inserts, depicting events in early American history, come in two sizes: 6x6x⅜ in. and 9x6x½ in.—The Mosaic Tile Co.

(Item No. 7)

Latest Handbooks, Manuals and Literature

Yours for the Asking

STRUCTURAL CLAY PRODUCTS: "The Pacific Northwest Brick and Tile Index" has been published to aid the designer in using and specifying locally manufactured structural clay products from selection of a unit type to the application of a specific unit on the job. But the loose-leaf manual will be used outside the area too for it contains general specifications for masonry construction and shows 10 typical wall sections, with descriptions and technical data for each.—Pacific Northwest Brick and Tile Association.

(Item No. 8)

SCHOOL DESIGN: In December 1955 the Douglas Fir Plywood Association called together six of the country's foremost architects for a design conference and handed them this assignment: to meet the challenge for tomorrow's schools with provocative, new ideas in building and equipment.

The results of each designer's work is now available as a separate sheet and conveniently assembled in a 9x11¾-in. folder. Architects represented are Robert B. Price of Tacoma (stressed skin vaulted roof), John Lyon Reid of San Francisco (folded plate roof), Charles R. Colbert of College Station, Texas (an educational oasis), William W. Caudill of Bryan, Texas (a classroom evolution), John Weems of Aiken, S. C. (a demountable classroom), and Paul Rudolf of Cambridge, Mass. (stressed skin acousti-temp roof).—Douglas Fir Plywood Association.

(Item No. 9)

METAL LETTERS: "Architectural Metal Letters" is a profusely illustrated 20-page booklet giving detailed specifications, showing methods of installation and describing all available finishes for Bayer's basic alphabets and script styles. Examples of specially cast, highly stylized trademark names, plaques, crests and emblems are shown.—A. J. Bayer Co.

(Item No. 10)

KITCHEN LAYOUTS: For architects and school planners concerned with the layout of kitchens using all-paper service, the Paper Cup and Container Institute has prepared a series of guide sketches. Plans are for kitchens serving from 100 to 1,000 students and include comparative designs for conventional service. Sketch of a central kitchen designed for 3,500 meals per day is also included.—Field Research Division, Paper Cup and Container Institute.

(Item No. 11)

CHURCHES: How to design the Tudor arch, with examples of formulas and drawings, is explained in a 12-page brochure devoted to churches which use glued laminated structural arches. There are illustrations of typical purlin and haunch connections, with tables for the latter. Among 12 projects whose finished interiors are shown, along with sketches of basic arches, are three West Coast churches. —Timber Structures, Inc.

(Item No. 12)

WROUGHT IRON: While design and text of "The Picture Book of Wrought Iron" are "pitched" to the consumer, emphasizing advantages and sales points of Locke products, the 12-page brochure is cataloged especially for the architect and builder. Wrought iron designs are grouped with wrought iron accessories, cast designs with their accessories and standard size rails with awning columns, lanterns and posts and other allied building products.—Locke Manufacturing Co.

(Item No. 13)



PLYWOOD FINISHING: A 36-page manual containing 68 full-color illustrations shows how various plywoods look after they are finished and offers work-saving techniques. Among the topics covered: preparing the surface, method of application, interior and exterior finishes, how and when to apply finishes and suggested uses in the home.—Simpson Logging Co.

(Item No. 14)

PLASTIC INSULATION: Both architects and builders will be interested in a construction detail folder containing 12 scale drawings of comfort applications of Styrofoam, each on an individual sheet. Shown are the plastic insulating material applied to either a wood or metal window, to a masonry wall at the door opening, under a concrete slab, on a foundation, in a crawl space, on a foundation wall exterior and in connection with either a perimeter heating duct or an electrical outlet. Also included in the file-size folder is a drawing of a push box for application of adhesive to the Styrofoam. — Plastics Sales Department, The Dow Chemical Co.

(Item No. 15)

ROOF PROBLEMS: Anyone concerned with roof maintenance will find "Solving Roof Problems" a helpful addition to his files. The 16-page brochure is illustrated by photographs, drawings and diagrams and explores such subjects as the various types of roofs, how they are built, what factors enter into their deterioration and how roof troubles can be diagnosed and treated. —Tremco Manufacturing Co.

(Item No. 16)

LIGHTING: For those interested in the specifications, installation or purchase of industrial lighting equipment, RLM Standards Institute has announced publication of a periodic newsletter. The first issue now being released treats such items as the forthcoming RLM specifications covering fluorescent lighting units for the 800 milliampere lamps and recommendations for increase in the efficiency of light output on the SD-1 units.—RLM Standards Institute, Inc.

(Item No. 17)

PERFORATED PANELS: Despite its limiting title, "Home Owners' Guide to Masonite Peg-Board Panels and Fixtures" contains some ideas for architects and builders, especially those engaged in remodeling projects. Hints on decorative and functional applications are presented plus sketches of the matching metal fixtures.—Masonite Corp.

(Item No. 18)

COLUMN TYING: How general contractors reportedly save up to 35% in labor and material costs by tying concrete column forms with Signode steel strapping is explained in a four-page brochure. An illustrated case history describes how the company's methods enabled one contractor to save 350 man-hours in pouring column forms for a six-story building just completed in Kalamazoo, Mich.—Canadian Steel Strapping Co.

(Item No. 19)

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.

JULY 1957

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 _____

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PA&B T-square talk

DIED: Charles Sumner Greene, 89, a native of Ohio who came to California in 1893, to become one of the country's most distinguished architects, died June 11 at his home in Carmel. He and his brother, the late Henry Mather Greene, were credited with developing what is now known as the "native California" school of residential design, noted for its glassed openings onto shaded courts, pierced overhangs and the absence of gingerbread.

Arthur Brown Jr., FAIA, often referred to as the dean of architects in the Bay area, died July 7 in Burlingame, Calif., at the age of 83. He was stricken with a heart attack upon his return from Washington, D. C., where he had served as one of three chief advisors on design for the remodeling of the U. S. Capitol.

Despite his age, Brown maintained a continuously active architectural practice and refused to retire. Among his projects: San Francisco City Hall, War Memorial Opera House, Veterans Building, Federal Office Building —all in Civic Center—, Coit Tower, Hoover Library and many other Stanford University structures, as well as the Interstate Commerce and Labor Department buildings in Washington, D.C. Born in Oakland and a graduate of the University of California, he was made a member of the Institut de France in 1926 and was elected to the American Academy of Arts and Letters in 1943.

Grey Wornum, an internationally known English architect who spent much of his time in San Francisco, died June 11 in New York City at the age of 68. He was decoration architect for the liner Queen Elizabeth and in 1952 was awarded the Royal Gold Medal for architecture.

NEW OFFICE: The architectural firm of Victor Gruen Associates has opened an office in Hawaii, with Neal Butler, associate and project coordinator for the Waialae Shopping Center in Honolulu, in charge of the operation.

The firm also has announced two new associates: Marcel Sedletzky and Franz Szymanski.

NEW PARTNERS: Baird Heffron, structural engineer, and Ted Moulton, AIA, have formed a partnership known as Heffron & Moulton at 717 Market St., San Francisco (YUkon 2-5674). The two men, formerly associated with Donald Beach Kirby & Associates, San Francisco architects-engineers, will continue to work with that office in the promotion of new projects.

NEW FIRM NAME: The Seattle architectural firm of Jones & Bindon has been changed to Bindon & Wright, with Leonard W. Bindon, AIA, and John L. Wright, AIA, as principals. John Paul Jones, AIA, although relinquishing his position as a partner, will serve as a consultant.

ON THE MOVE: John Kewell, AIA, has announced the removal of his offices to 1901 W. Eighth St., Los Angeles.

HONORED: Frank T. Kegley, partner in the Los Angeles architectural firm of Kegley, Westphall & Arbogast, has been elected a member emeritus of the AIA in recognition of his more than 47 active years in the profession. A graduate of the University of Illinois in 1908, he became a licensed practicing architect in California two years later. Later Kegley continued his career in Chicago and during

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World War II was supervisor of shipbuilding for the Navy in the Great Lakes area.

TO FRANCE: Miss Nina Pence, who has practiced architecture in Klamath Falls, Ore., for the past 10 years, has left for France where she will take advanced study at the American School of Fine Arts at Fontainbleau. She is a graduate of the University of Michigan.

BACK HOME: Professor Emeritus Stanley A. Smith returned to Pullman, Wash., last month after two years of special service in Turkey aiding in the design of buildings for that nation's new Ataturk University. For 32 years he was chairman of the department of architectural engineering at Washington State College. Upon retiring in 1955 he took the Turkish assignment with a team of experts organized by the University of Nebraska to provide technical aid in the founding of the university.

APPOINTED: James G. Pulliam, AIA, and member of the American Society of Planning Officials, has been named land planning chief of Welton Becket & Associates, Los Angeles architects-engineers. With the firm since 1955, he holds degrees in architectural engineering from Dartmouth College and in architecture from Harvard University.

ELECTED: Seattle architect Francis E. Huggard, who is a member of the City Planning Commission, has been named international president of the Knights of the Round Table.

ON FACULTY: Portland architect Walter Gordon has been named a visiting professor of architecture at the University of Oregon and will spend two days a week on the Eugene campus.

TOURS: The second annual architect's tour of Japan is scheduled to leave San Francisco October 3. Led by southern California architect Kenneth Nishimoto, the group will spend three weeks visiting the most colorful cities in Japan, which also contain the most interesting architectural projects — shrines, palaces, universities and private homes.

✔ Gira Arquitectura, the Mexican architectural seminar tour, will depart from Laredo, Texas, October 6, returning to that city October 19, with Paul Elliott, AIA, of Houston as co-escort.

ENGINEERS ELECT: New officers of the Consulting Engineers Association of Oregon are Thomas R. Miles, Portland, president; Holly A. Cornell, Corvallis, vice president; Rowland Rose, Portland, secretary; and Guy H. Taylor, Portland, treasurer.

CONSULTING ENGINEERS: Hugh C. Carter, former senior design engineer for the Los Angeles architectural-engineering firm of Pereira & Luckman has formed a new consulting engineering organization, Hugh Carter Engineering Co., at 222 Atlantic Ave., Long Beach, Calif.

✔ In Seattle Gilbert H. Mandeville has resigned as executive director of Leo A. Daly & Associates to establish his own firm of Gilbert H. Mandeville & Associates in the Joseph Vance Building.

STUDENT AWARDS: Neil R. Penry, 23-year-old graduate student, has won three of the most coveted prizes for architectural students at the University of California, Berkeley: the Alpha Rho Chi prize, a grant-in-aid from the Northern California Chapter, AIA; and the Tile Council of America prize. At the same school Richard M. Clayberg was awarded the Mario Ciampi prize and a grant-in-aid from the Women's Architectural League of San Francisco; and George F. Tully won the Kenneth Foster Strong architectural prize.

Among other citations to West Coast architectural students this spring:

University of Southern California: Peter von Muehlen, Welton Becket & Associates fellowship.

University of Oregon: George A. McMath, Women's Architectural League of Oregon scholarship ($250); Gary Michael, Ion Lewis travel fellowship ($2,000).

University of Washington: Richard S. Alden, AIA gold medal: Joseph H. Onuma, AIA second award; Robert J. Patton, faculty medal; Alvin Dreyer, Alpha Rho Chi medal; Glenn L. Brewer, alumni traveling scholarship ($700); Jerald Bell and Jack Vincent, Washington State Chapter, AIA, scholarships ($250 each); Barry K. Upson, Northwest Plaster Bureau prize ($250).

With the AIA

Southwest Washington has honored five area crafstsmen for excellence in their particular skills. They are: Guy Anderson for a mural to be erected in the new Clover Park Junior High School; Anders Liljas, masonry foreman of Johnston Construction Co. for crafstmanship executed by himself as well as ability to coordinate and direct the work of his men; Oliver Tiedman of Klee Wyk Studios for a terra cotta and mosaic sculptured wall panel for Knight, Vale & Gregory; Mark Mitchell for roofing work; Ed Buettner of Standard Iron and Wire Works for structural as well as ornamental metal work.



IN TACOMA: New Southwest Washington officers are (seated) Charles Pearson, president; Gilbert Wojahn (retiring president), director; (standing) Robert T. Olson, first vice president; Gordon Johnston, director; Alan Liddle, treasurer; Percy Ball, secretary; Donald Burr, second vice president.

California Council has approved establishment of a group health insurance program for AIA members and their employees. In other actions at its board meeting in Carmel June 28-29, the council launched a long-range legislative program designed to "gain the understanding and win the informed support of the architectural profession in California by all members of the state legislature."

Washington State has reelected James J. Chiarelli as president. Other officers: Robert H. Dietz, first vice president; Walter H. Rothe, second vice president; Talbot Wegg, secretary; and A. O. Bumgardner, reelected treasurer. John L. Wright succeeds Dietz as director for a three-year term, joining Lloyd J. Lovegren, Arnold G. Gangnes and Harrison J. Overturf. All are Seattleites except Rothe who is from Yakima.

Northern California has appointed Joseph Paul as public relations counsel, succeeding Erich Nielsen. Paul, who has maintained his own office since 1947, has been named by the San Francisco Art Commission to handle publicity for the 1957 Art Festival.

Southwestern Oregon has named this slate of officers for 1957: Clare K. Hamlin, Eugene, president; Sheldon R. Haatvedt, Albany, vice president; B. King Martin, Eugene, secretary-treasurer; and Thomas A. Balzhiser, Eugene, retiring president, and V. E. (Chris) Jeppsen, Corvallis, directors.

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• **Gladding, McBean & Co.** has purchased the fixed assets of Washington Brick and Lime Co. of Spokane. According to president C. W. Planje, Gladding, McBean intends to continue the operation of the structural glazed tile unit at the acquired facility, but at present has not finalized plans for other products.

• **J. H. Baxter & Co.** general sales manager, W. W. Jackson of San Francisco, has been elected chairman of the board of the American Wood Preservers Institute.

• **Unit Masonry Association** of Seattle has elected Donald E. Jordan, sales manager of Layrite Concrete Products, as president.

• **Portland Cement Association** has appointed Lawrence C. Miller as field engineer for Spokane, southeast Washington and north central Idaho. He formerly was associated with the structural design section of Weyerhaeuser Timber Co. and the consulting firm of Horace J. Whitacre & Associates in Tacoma.

• **Reynolds Metals Co.** has appointed Metals Supply of Emeryville, Calif., as a distributor of its mill products and architectural aluminum.

• **Universal Manufacturing Corp.** of Patterson, N. J., has opened a western regional sales office and distribution warehouse in Los Angeles for its line of fluorescent ballasts for residential, commercial and industrial use. George J. Kaufman, who has been with the firm for six years, is the regional manager.

• **Mitchell Manufacturing Co.** has appointed Dallman Co. of San Francisco as distributor of its line of room and package air conditioners in northern California.

• **Radiant Heat and Cooling Corp.** of Santa Clara, Calif., has named Edwin H. Klaus as vice president in charge of marketing.

• **Northwest Plaster Bureau** has received the Portland Art Directors award for the outstanding series of display classified newspaper advertisements, part of a promotion program directed by Dawson & Turne Inc. of Portland, for the past months. The competition drew 80 e tries from throughout the Northwe with 12 finalists being cited.



CHAIRMAN Dick Cronn of Portland promot committee of Northwest Plaster Bureau sho citation and one of ads in award-winning p gram.

• **Forest Fiber Products Co.** of Fo est Grove, Ore., has appointed Henr B. Jacobsen as general sales manage He had headed sales in the southwe division since 1955, with headquarter in Los Angeles.

In two other company moves, Jac Gumm has been transferred to th Los Angeles sales office to provid better service in southern Californi and Saul Zuckerman has been name industrial sales representative for tha area.

• **Roddis Plywood Corp.** has gone into production on a 24-hour, three-shift basis at its $3.7 million plant at Arcata, Calif., where 15 million square feet of Timboard will be turned out annually.

• **Georgia-Pacific Corp.** has named Warren F. Bradeen, most recently with C.P.I. Veneers of Seattle, to its fir and industrial lumber sales department; and Roy L. Beals as staff engineer in its Portland general headquarters office.

• **American Sisalkraft Corp.** has named Joseph W. Smith, manager of its South Atlantic district for 16 years, as assistant sales manager of its western division, with headquarters in San Francisco.

• **Pacific Northwest Brick and Tile Association** has elected John Gorin, who heads Lowell Brick and Tile Co., Lowell, Wash., as president and Carlton Goudge, vice president of Gladding, McBean & Co., Seattle, as vice president.

• **The Coralite Co.** has been organized in Los Angeles to manufacture and distribute Coralite, plastic finish wallboard.

The individual and his environment (Cont'd from p. 4)

vironment points beyond itself to his world. This is decisive for any attempt to change man's environment. The criterion of every change in environment is the character of the world which is manifest in the changed surroundings and which determines the character of the environment which people can make of it.

The presence of world in an environment expresses itself in many ways. And each of these expressions has symbolic character. It points to a particular self-understanding of man within his world. As such it reveals something about man and world in themselves and in their encounter. The environment as the result of an encounter wins spiritual significance. Let me give a few examples.

Environment is by its very nature limited in space. But world, present in environment, drives beyond any limited space. The world-space is open in all directions without a noticeable or even imaginable end (whatever physical theory may say about the limited space of the universe). This infinite space is potentially present in the limited space of the environment, producing two reactions each mixed with anxiety and courage. The infinite space is both threatening and liberating. It threatens to take away any place upon which one can stand by its endlessness and emptiness. It liberates from the bondage to a particular space its narrowness and its tendency to isolate from the world.

Narrowness, on the other hand, has given the name to anxiety, "angustiae" in Latin. It is the cutting off of life-potentialities which produces such an outbreak of basic anxiety. At the same time the narrow place is the protected place—the mother's womb, the cave, the narrow streets of the wall-protected medieval town. The modern functional house with its large open glass walls seems to express the same courage which has conquered the space above the surface of the earth and is conquering the cosmic space itself. But man remains man and often just in contrast to his wide openness, needs the place which is a separated part of endless space to give him a feeling of psychological as well as physical protection.

Connected with the question of the endless and limited space is that of environment which gives privacy and which prevents privacy. The spiritual problem in this respect is even more urgent than that in the former example. External privacy makes inner solitude possible or at least easier. And nothing is more needed in a period of loneliness within the crowd than solitude with oneself and the divine ground of one's being. The interdependence of the individual and his environment has produced an environment in which solitude is less and less possible. Both time which leaves no time for solitude and space which is organized without a space for privacy work against it.

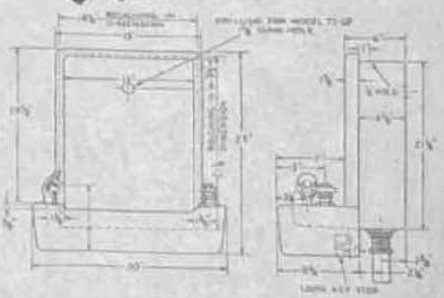
There is no privacy in houses for the individual member of the family. This is being caused by owners and builders under the false assumption that the family is a unity which must always appear together. But the family consists of individual selves who need self-encounter. Otherwise, they become lonely within the family group and hostile to it, or they resign to their fate of losing their individuality. It is here that a large responsibility lies wth the architectural profession.

Connected again with this problem is that of environment and conformity. Its spiritual significance is still greater. Driving through the housing projects which are found throughout Long Island in commuting

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distance from New York, I asked myself: what does this mean in terms of human existence? Settlement after settlement with little distance between them, each with exactly the same model of house, small differences in color and design, each for itself in immediate vicinity of the others, each surrounded by a small garden. The whole things seems to me a disturbing symbol of loneliness in a crowd, breeding as well as confirming the patternization of present-day industrial society.

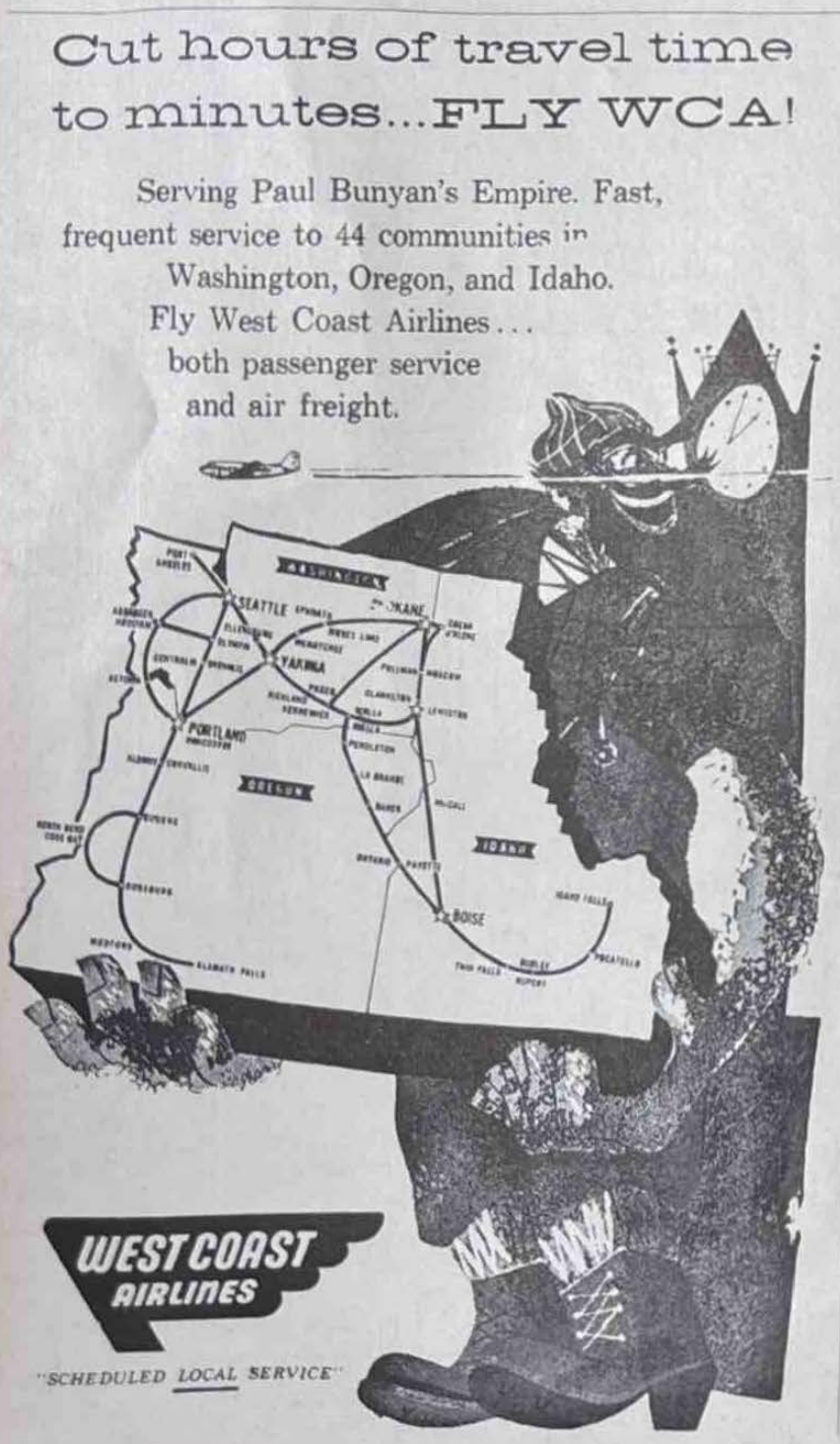
The impression given by the metropolitan apartment house developments is different. They lie more in the direction of mass concentration but they seem to leave more freedom for individual non-conformism—as big cities always do. What will these developments do to the individual is the question that now arises? In the daily movement of people between model house, office, factory, school, train, social-togetherness with people who live under the same laws of existence, are there symbols left which break the conformist compulsion?

The answer may be: it cannot be done from outside. Neither the city planners nor the architects nor those who direct the movement of the population can produce such symbols. They must come from inside. They are the concern of education and religion. But if we look in the light of this answer at the educational institutions, from family and school to public communications and at the way in which the churches consecrate conformism every Sunday morning, we shall become skeptical about this answer. Adjustment to the demands of our competitive mass society is the aim of most directly or indirectly educational activities. Such developments are useful for the ruling groups in a society and they give security to the others, not only in dictatorial but also in democratic systems. But there is a limit to their usefulness. When man becomes dehumanized in patternized security, the whole system loses those who can support it in the future, those who can say "no" to a given pattern.

Let us remember that environment is a correlative concept and that surroundings are not yet environment. It may be that the surroundings develop in a way which makes non-conforism almost impossible. But they cannot suppress it completely. Every man has a source of uniqueness in his self. Participation is only one pole of being, individualization is the other. And every man has a direct approach to the ultimate ground and meaning of life—the divine. Certainly solitude seeks for privacy. But it can even be experienced within the crowd.

And since this is so, symbols of non-conformism will always appear in the midst of surroundings which try to compel adjustment to models and patterns. We are made by our environment and we make it at the same time. Out of this follows our task, the task also of a group like this today. We should not imagine that we can change our cultural trend, either as architects or as theologians or as educators.

Symbols cannot be produced intentionally. They are born and grow and die. But one can tell how they are conceived and born: out of the personal passion of individuals who in total honesty and total seriousness penetrate into the demands of the material with which they work, who have a vision of the form which is adequate to their aim, and who know that in the depth of every material, every form and every aim something ultimate is hidden which becomes manifest in the style of a building, of a poem, of a philosophy. Out of this depth symbols can and will be born which, by their very character, say "no" to present conformity and which point to an environment in which the individual can find symbols of his encounter with ultimate reality.



Construction News Bulletin

Vol. 63—No. 15 (PA&B) News Section of Pacific Architect and Builder July 20, 1957

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BUILDING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

★BANK REMODELING— Albany, Ore.

Award to Lorentz Bruun, 7337 S.E. 28th Ave., Portland, no amount announced, by First National Bank of Portland, C. B. Stephenson, president, 404 S.W. 6th Ave., Portland, for remodeling and expansion of Albany Branch Bank. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland. Bids were opened in May.
WB 7-17. Previous report 5-7

AUDITORIUM-GYMNASIUM— Bend, Ore.
(Estimated cost $110,000)

Plans announced by St. Joseph's Academy, Bend, for construction of a three-level auditorium-gymnasium building at Bend. The stage for the building would be at the west end, connecting with existing building and allowing classrooms in the building to become dressing rooms. On the east side would be junior high school regulation length gymnasium. SC 7-16

SERVICE STATION— Bend, Ore.
(Estimated cost $28,000)

Construction will start soon by Murray Bros. Construction Co., 1260 E. 1st, Bend, for a new service station on the corner of Greenwood and E. 6th St. in Bend. The building will be leased to Standard Oil Co. of California for a Chevron station. SC 7-16

●RESIDENCES—
Butte Falls, Fort Klamath, Ore.

Bids will be opened 2 p.m., P.S.T., July 30, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., P.O. Box 4137, Portland, for construction of one-story frame residences, one 50'x40', and the other 64'x 30', at Butte Falls Ranger Station, Jackson County, and at Fort Klamath Ranger Station, Klamath County, both in Rogue River National Forest, Ore. Plans with supply officer, or with Supervisor Rogue River National Forest, Post Office Bldg., Medford.
WB 7-13

▲PRESBYTERIAN CHURCH—
Corvallis, Ore.

Bids opened and held under advisement by United Presbyterian Church, Arthur VanderSys, chairman of building committee, P.O. Box 651, c/o Chapman Manufacturing Co., Corvallis, for wood frame, 5,200 sq. ft. church on Dixon St. Plans by John W. Foster, architect, 410 Postal Bldg., Portland. BIDDERS: John Carrick, Route 3, Box 950, Albany, $55,950; Robert C. Wilson, 1275 N. 9th St., Corvillas, $58,462; Grubb, Johnson & Rose, Crees Bldg., Corvallis, $64,000; Quentin Greenough, 2600 Tyler St., Corvallis, $66,000. Bids opened July 12.
WB 7-17. Previous report 6-25

★BOILER ALTERATIONS— Dallas, Ore.

Award by Board of County Commissioners, Polk County, Dallas, for furnishing and installing two boilers to replace existing boilers, fireproofing the boiler room and other alterations at Polk County Courthouse. Plans by Roald, Schmmer & Harrington, architects, 1104 Portland Trust Bldg., Portland. AWARD: Arnett's Inc., 425 W. 1st Ave., Albany, $9,113 (basic); $1,434 (alternate). OTHER LOW BIDS: H. H. Rich, Dallas, $9,280 (basic); Copenhagen & Co., 4949 S.E. 26th Ave., Portland, $9,989. Bids opened July 12.
WB 7-17. Previous report 7-3

★SCHOOL ADDITION— Damascus, Ore.

Award to A. C. Bardi, 8105 S.E. Duke St., Portland, $17,814, by Damascus Union School District No. 26, Clackamas County, Mrs. Lillian O. Anderson, clerk, Route 1, Box 187, Clackamas, for construction of two-classroom wood frame addition to Damascus Primary School. Plans by Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland. WB 7-12. Previous report 7-6

▲COURTHOUSE— Eugene, Ore.

Bids received by Lane County Commissioners, Courthouse, Eugene, for construction of a new courthouse just north of the existing structure on E. 8th Ave. in Eugene. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene. Bids opened July 11. LOW COMBINED BID: Gale Roberts, 338 W. 11th Ave., Eugene, $1,495,381. ONLY OTHER COMBINED BID: W. H. Shields Construction Co., Box 3037, Eugene, $1,500,000. OTHER LOW BIDS — ELECTRICAL: Electric Corp. of Salem, Box 266, Salem, $118,700. MECHANICAL: Hennen & Vos Co., 771 Blair, Eugene. ELEVATORS: Otis Elevator Co., 222 E. Broadway, Eugene, $98,112. DW 7-13. Previous report 7-9

METHODIST CHURCH— Gresham, Ore.

Preliminary plans have been approved by Gresham Methodist Church, 200 E. Powell Blvd., Gresham, for a 30,000 sq. ft. church at Norman Ave. and N.W. 8th St. Plans by Stuart B. Mockford, architect, 723 Washington St., Oregon City.

Church will include nave seating 362 persons, overflow space for 200 persons, social hall on lower level to accommodate 410 persons, and classrooms for 450 students grouped around enclosed court. Masonry block, native stone and cedar or hemlock; copper-sheathed spire 72' high. WB 7-16

EXHIBIT BUILDING— Hermiston, Ore.

Final approval has been given by Umatilla County Court, Courthouse, Hermiston, for construction of a new steel 40'x156' exhibit building to be adjacent to, and south of, the commercial exhibit building at the fairgrounds in Hermiston. Completion is expected soon. SC 7-16

▲BOILER INSTALLATION—Hillsboro, Ore.

Bids received July 11 by School District No. 7, Washington County, Vida Goodman, clerk, Hillsboro, for installation of boiler at B. W. Barnes School, Hillsboro. Plans by W. Bruce Morrison, consulting engineer, 918 Cascade Bldg., Portland. LOW BIDS: Buchanan Co., Inc., 1518 N.E. Killingsworth St., $14,944; Copenhagen, Inc., 4949 S.E. 26th Ave., $16,428; Sunset Valley Plumbing & Heating Co., 13370 N.W. Cornell Road, $17,413. Of Portland. WB 7-16. Preivous report 6-26

★BUILDINGS, UTILITIES—
Howard Prairie Damsite, Ore.

Award to Harold W. Salter, Rogue River, $38,960, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of a two-stall garage, shop and storage building, laundry and toilet building and generator shed, and furnishing and installing sewage, water and electrical distribution system for Howard Prairier community facilities; Spec. No. 100C-298. SP 7-16

★VENTILATING SYSTEM—
Klamath Falls, Ore.

Awards announced by School District No. 1, Klamath Falls, for installation of a new ventilating system at Mills Elementary School, E. Main and Orchard Ave., Klamath Falls, and for carpentry work incidental to the project. Plans by Howard R. Perrin, architect, 1121 Main St., Klamath Falls. Bids opened July 6 (extended from July 2). AWARDS—VENTILATING: G. C. Motley, 812 Klamath Ave., Klamath Falls, $21,733 (basic and alt. 2). CARPENTRY: Guy Mo-

lott, 5206 Walton Drive, Klamath Falls, $1,300. ZZ 7-12. Previous report 6-22

★INSULATING BOARD PLANT— Klamath Falls, Ore.

(Estimated cost $12,000,000)

Three additional subcontracts have been let by Robert Swan, project manager, Box 527, Klamath Falls, on projects included in construction of the insulating board plant near Klamath Falls, according to H. R. Stokes, project engineer for Johns-Manville Corp., 22 E. 40th St., New York City. General contractor is George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. AWARD: Fenstra, Inc., Emeryville, Calif., for steel sash for the four main buildings covering 271,500 sq. ft. AWARD: Lord Electric Co., 535 S.W. Clay St., Portland, for complete electrical work, including all power wiring, connecting all machines, lighting, distribution circuits, exterior distribution system. Work to start July 15. AWARD: Rosendahl Engineering Co., Los Angeles, for mechanical portion of the entire project, including processing piping for all materials (as opposed to piping for sanitary and water purposes), heating and ventilating and equipment installation. Sub-bids may be asked for items such as sheet metal.

Sub-bids have been invited from the J-M approved list of contractors for glass and glazing. It is anticipated that approximately 14 more subcontracts will be let for work such as sanitary plumbing, masonry, interior fire sprinklers, aluminum sash, lockers and kitchen equipment. Southern Pacific Co. is running in a double siding and first tests of material are expected to go through the plant about mid-December.

Excavation is underway by George A. Fuller crews at the north end of the ½ mi. long series of proposed buildings for the sorting house. Work will start immediately on the slasher building. Chicago Bridge & Iron Co. of Chicago has completed the 100,000-gal. water tank and has started on the metal work for three soaking tanks in the debarking building. Work will include erecting three storage tanks in the same building. Link-Belt Co. of Seattle has nearly completed the erection of coal handling equipment for the boiler house. Sub-contract will be let soon for brick work for the building. Bethlehem Pacific Coast Steel Co. of San Francisco has returned crews to the job to start erecting structural steel for the 10,000 sq. ft. administrative office building which will be on the front highway side of the four main buildings.

ZZ 7-12. Previous report 5-25

★RESIDENCE REMODELING— Klamath Falls, Ore.

Contract negotiated with Al Depew, 5808 Denver Ave., Klamath Falls, by R. L. Cotter, owner, 1049 Lakeshore Drive, Klamath Falls, for extending roofing and one room and applying siding to entire front of structure and other interior remodeling of a residence in Klamath Falls. ZZ 7-12

★U. S. NATIONAL BANK— Klamath Falls, Ore.

(Estimated cost $40,000)

Contract negotiated with Duncan Construction Co., Box 1088, Klamath Falls, by U. S. National Bank of Portland, E. C. Sammons, president, 740 Main St., Klamath Falls, for construction of a 36'x90' pumice block one-story second branch bank (Town and Country Branch) building in the 3600 block on S. 6th St. in Klamath Falls. Plans by Morrison & Howard, architects, Williams Bldg., Klamath Falls. Work will start this month and will be completed for an October opening. ZZ 7-17. Previous report 6-28

■DORMITORY, GYM, HEATING PLANT— La Grande, Ore.

(Estimated cost $1,358,000)

Planholders announced for construction of three-story dormitory to house 146 students; physical education building, and two-story, 1,000 sq. ft. addition to central heating plant, all reinforced concrete construction at Eastern Oregon College of Education, La Grande. Bids will be opened 11 a. m., July 25, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at 311 State Hall, Portland State College, 1620 S.W. Park Ave., Portland. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $50 deposit. Heating plant plans by W. Bruce Morrison, mechanical engineer, Cascade Bldg., Portland. Separate general, mechanical and electrical bids on dorm and on gym. Separate general and mechanical (latter includes electrical) bids on heating plant. Separate or combination bids on the three projects.

PLANHOLDERS—GENERAL: Bechtel Bros., P. O. Box 792, La Grande; H. G. Carl, P. O. Box 387, Salem; W. H. Shields Construction Co., P. O. Box 3037, Eugene; A. Ritchie & Co., P. O. Box 516, Walla Walla; Waldo S. Hardie & Son, P. O. Box 422, Eugene; McCormack Construction Co., S.E. 3rd and Goodwin, Pendleton; J. H. Wise & Son, Inc., Box 267, Boise; George Irwin, Route 3, Box 329, Canby. MECHANICAL: Modern Plumbing & Sheet Metal, 613 E. Jackson, Medford (sub on heating plant); Intermountain Co., Box 1652, Boise; Bill Bohnenkamp, 1607 Adams Ave., La Grande; Buchanan Co., Inc., 1518 N.E. Killingsworth St., Portland; Central Plumbing & Heating, P. O. Box 153, Yakima; P. S. Cook Co., S.E. 3rd, Pendleton; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland; Arnett's, 425 W. 1st Ave., Albany; Lord Bros. Contractors, 9233 N. Calvert Ave., Portland. ELECTRICAL: William Bohnenkamp, 1607 Adams Ave., La Grande; Electric Corp., P. O. Box 266, Salem; Tice Electric Co., 2139 S.E. Belmont St., Portland; Ace Electric, 3525 N.E. Broadway, Portland; Mid-Columbia Electric Co., 310 E. 4th St., The Dalles (not bidding heating plant); Dimitre Electric Co., 133 S.W. 2nd Ave., Portland; Watco Electric, 4715 S.W. Macadam Ave., Portland; Vaughans Electric, 108 S.E. Court Ave., Pendleton (not bidding heating plant). HEATING PLANT ONLY: Oregon Boiler Erectors, Inc., 226 Ransom Bldg., Eugene. WB 7-17. Previous report 6-28

●HOSPITAL ADDITION— Lebanon, Ore.

Bids will be opened 8 p. m., August 1, by Lebanon Community Hospital, Allen H. Erb, hospital administrator, Labanon, for construction of a 25-bed nursing home addition to the hospital. Plans with Wicks & Brown, architects, 515 Commercial, Astoria.

SC 7-13. Previous report 1-9

●DISTRICT OFFICE BUILDING— Madras, Ore.

Bids will be opened 10 a.m., August 6, by J. P. Vertrees, project construction engineer, Route 1, Box 38, Culver, for construction of a 38'x61' one-story district office building at the airbase, adjacent to the present North Unit Irrigation District office, at Madras; Inv. No. 100C-307. Specifications with above office and with Bureau of Reclamation, Box 937, Boise. Completion time 120 days.

Structure will have footings down to rock; concrete slab floor; Roman brick veneer; tile roof; vault and heating system included.

SC 7-17

MEETING HALL— Merrill, Ore.

Members of the Merrill VFW and its auxiliary are volunteering labor to remodel the former Merrill High School shop building, which has been moved to N. Lincoln and E. 1st, and to construct a 24'x30' wing addition to the structure. Work includes reinforced concrete footings and foundation for present building and addition; arches built into ceiling; reflooring old building; replacing 96 panes of glass; installation of electric heating system, kitchen facilities. ZZ 7-16

●■HIGH SCHOOL ADDITION— Milwaukie, Ore.

Bid opening extended from July 16 to 8 p. m., July 23, by School District No. UH-5, Clackamas County, Fred F. Paulsen, clerk, Superintendent's Office, Milwaukie High School, Milwaukie, for 19-classroom wood frame addition to Clackamas High School, Lake and Webster roads. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit.

Planholders: Blanchard Construction Co., 2546 S.W. Vista Ave., Portland; Juhr & Sons, 1339 S.E. Gideon St., Portland; George Irwin Route 3, Box 391, Canby; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland.

WB 7-13. Previous report 7-3

●POLICE STATION— Milton-Freewater, Ore.

Bids will be opened August 12 by City Council, City Hall, Milton-Freewater, for construction of a new police station adjoining the City Hall on the south end. Plans with city clerk. SC 7-12

●FUEL OIL TANK— Myrtle Point, Ore.

Bid opening postponed from July 10 to 8 p. m., July 24, by School District No. U.H. 2, Coos County, Paula Cook, clerk, Union High School Office, Myrtle Point, for fuel oil tank and related piping to be connected to existing boiler room building at the school. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. WB 7-13. Previous report 7-3

▲ELKS LODGE— Oceanlake, Ore.

Bids received at the Elks Lodge office in Oceanlake for construction of a new 80'x90' one-story, reinforced concrete (three sides) and masonry (one side) lodge. Plans by E. E. Isaacson, architect, 285 W. Irving, Astoria. Bids opened July 15. LOW BIDS—GENERAL: R. L. Greene, 3505 N.E. Broadway, Portland, $77,770; Randolph Construction Co., Salem, $78,778; Duoos & Son, Box 222, Astoria, $79,579. MECHANICAL: George Abrahamson, 478 Bond, Astoria, $22,135; George Eilertson Plumbing Co., Oceanlake, $24,250. ELECTRICAL: Rouske Electric Co., Oceanlake, $5,700; Caley Electric, Oceanlake, $6,970; Clark Electric, Oceanlake, $7,450. Some brick trim will be used on the building with architectural concrete finish.

SC 7-17

GLASS PLANT RECONSTRUCTION— Ontario, Ore.

Reconstruction will start immediately at the Benson Glass Co. in Ontario, according to owner Don Benson. Part of the building was destroyed by fire on July 4. SC 7-16

★CHURCH— Portland, Ore.

Award to O. B. Blakely Construction Co., 10355 N.E. Saratoga St., Portland, $44,072, by Vermont Hills Methodist Church, Rev. Eugene H. Walters, pastor, 5504 S.W. Iowa St., for one- and two-story, 4,600 sq. ft. wood frame classroom unit and fellowship hall at S.W. 55th Drive and Iowa St. Plans by Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland. WB 7-16. Previous report 6-8

●GYMNASIUM— Portland, Ore.

Bids close 2:30 p. m., August 7, and will be opened 3:30 p. m., by Portland School District No. 1, 620 N.E. Halsey St., Portland, for construction of 116'x118', two-story reinforced concrete gymnasium building at Cleveland High School, S.E. 28th Ave., between Franklin St. and Powell Blvd. Plans with business office. $50 deposit. Certified check or bid bond 10%. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bdlg., Portland.

Basement includes two team rooms, girls' and boys' locker and basket rooms, apparatus room, exercise room, social room, office, storage and first air room; main floor is devoted to standard gymnasium floor seating 1,800; contract includes parking lot for 135 cars, concrete sidewalks and equipment, including lockers, baskets, metal storage cabinets, locker room benches (bleachers under separate contract). Brick veneer exterior; aluminum siding on penthouse trusses; aluminum sash; concrete and ceramic tile floor; long-span joists in gym ceiling; maple gym playing floor; partitions include metal studs, lath and plaster, concrete blocks and glazed structural units; ceilings have 1" Insulrok suspended panels; built-up roofing; some plastic wall covering; terrazzo stairs; flush and recessed in-

Profitable leads on building and engineering projects in the six Pacific Northwest states and Alaska appear in these columns.

candescent lighting; three new transformer vaults; forced air heating from existing boiler. WB 7-12

▲WOODMERE SCHOOL ADDITION— Portland, Ore.

Bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for 26,000 sq. ft. frame and concrete addition to Woodmere Primary School, 6540 S.E. 78th Ave. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland. LOW BIDS: Howard Brewton, 1240 S.E. Gideon St., $365,853; Mason & Robinson, 2004 N.E. 21st Ave., $367,894; Contractors, Inc., 1101 N.E. 21st Ave., $369,400. Of Portland. Bids opened July 10.
WB 7-12. Previous report 7-2

▲ORCHID STREET SCHOOL—Portland, Ore.
(Estimated cost $326,577)

Bids received by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for construction of 11-classroom brick and curtain wall Orchid St. Plans by Scott & Payne, architects, 511 Builders Exchange Bldg. LOW BIDS: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $326,483; Weston Construction Co., 7415 N.E. Glisan St., $327,000; Teeples & Thatcher, 8850 S.E. Otty Road, $329,400. Of Portland. Bids opened July 10.
WB 7-12. Previous report 7-2

▲SCHOOL REMODELING— Portland, Ore.

Bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for remodeling home economics room at Girls Polytechnic High School. LOW BIDS: Lorentz Bruun, 3636 S.E. 20th Ave., $11,886; E. Carl Schiewe, 1024 N.E. Davis St., $12,059; Wilson & Dean, 1016 N.E. 61st Ave., $12,065. Of Portland. Bids received July 10.
WB 7-12. Previous report 6-29

▲BOY SCOUT OFFICE— Portland, Ore.

Bids received in the office of Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland, for construction of two-story 10,000 sq. ft. wood frame office building with partial basement for Portland Area Council of the Boy Scouts of America, 1009 S.W. 5th Ave. Bids opened July 10. LOW BIDS: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $160,000; Henry M. Mason Co., 2206 N.W. Thurman St., Portland, $160,000; E. E. Settergren, 3723 S.E. 21st Ave., Portland, $163,000. Robertson, Hay & Wallace was low on the basis of alternates.
WB 7-12. Previous report 7-2

★OFFICE BUILDING— Portland, Ore.

Award to Charles S. Camplan Co., 2035 S.W. 58th Ave., Portland, approximately $140,000, by Howard Stearns, owner, 1133 S.W. Market St., for 8,000 sq. ft., 2-story, steel and concrete office building for occupancy by Metropolitan Life Insurance Co., Portland North Office, Clifford A. Stine, manager, Failing Bldg. Plans by Gordon Kee Cochran, architect, 1962 N.W. Kearney St., Portland. Second floor will be leased to another tenant.

Steel frame construction; concrete block walls; concrete floor decks; roman brick trim; aluminum sash; built-up roofing; some concrete retaining walls; 50'x100' paved parking space; frame interior partitions; hardwood paneling in offices; asphalt tile flooring; acoustical tile ceilings; partial basement to house low pressure hot water heating and air conditioning; fluorescent lighting. WB 7-13

■SWIMMING POOLS— Portland, Ore.

Planholders announced for construction of two concrete regulation outdoor swimming pools, each 42'x75', at Woodrow Wilson High School, southwest Portland. Bids will be opened 2 p.m., July 30, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland. Plans with purchasing agent. $25 deposit. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg.

Planholders: Blanchard Construction Co., 2546 S.W. Vista Ave.; Mac Sharp, 9820 S.W. Eagle Lane, Beaverton; Teeples-Thatcher Co., 8850 S.E. Otty; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave. Of Portland except as noted.
WB 7-13. Previous report 7-6

●ELECTRICAL WORK— Portland, Ore.

Bids will be opened 10:30 a.m., July 25, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for replacing electrical panels, feeders and gutters, and installation of a sub-distribution switchboard in Multnomah County Courthouse. Specifications with roadmaster, 2115 S.E. Morrison St. $2 charge. Certified check or bid bond 10%.
WB 7-13

■PRIMATE HOUSE, MONKEY ISLAND Portland, Ore.

Planholders announced for construction of reinforced concrete, 3-level, T-shaped primate house and monkey island, Contract Group 9, Portland Zoological Gardens, Hoyt Park. Bids will be opened 2 p.m., August 1, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland. Plans with purchasing agent. $50 deposit. Plans by Lawrence, Tucker & Wallmann, architects, 912 Failing Bldg.

Planholders: E. E. Settergren, 3723 S.E. 21st Ave.; James & Yost, Inc., 5910 N.E. Ainsworth St.; D. Diamond Corp., 37 S.E. Morrison St.; Smith-Phillips Co., 7405 S.W. Macadam Ave.; Supreme Builders, Inc., 4232 N. Williams Ave.; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave.; Paul B. Emerick, 4540 S.E. 174th Ave.; Charles S. Camplan Co., 2035 S.W. 58th Ave. Of Portland.
WB 7-13. Previous report 6-27

●RESIDENCE— Portland, Ore.

Bids will be opened 2 p.m., July 30, in office of Warren Weber, architect, 610 Fenton Bldg., 310 S.W. 6th Ave., Portland, for 3,900 sq. ft. one-story brick residence for W. G. Dye on S.W. Elizabeth Court. Select list of bidders.

Three-bedroom residence with small attached greenhouse; small basement for oil-fired hot water heating plant; paneling heating in floor slab; brick exterior walls; cedar shingle roof; aluminum sash; gypsum board interior finish, with some oak, walnut and select white maple; oak flooring; some double glazing. Contract will include removing 1,300 c.y. dirt. WB 7-17

▲SCHOOL ADDITION— Portland, Ore.

Bids opened and held under advisement by School District No. 27, Multnomah County, Gladys Nuckolls, clerk, 740 S.E. 182nd Ave., Portland, for construction of wood frame three-classroom and multipurpose room addition to North Rockwood School at 330 N.E. 172nd Ave., Portland. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland. Bids opened July 11.
WB 7-17. Previous report 7-3

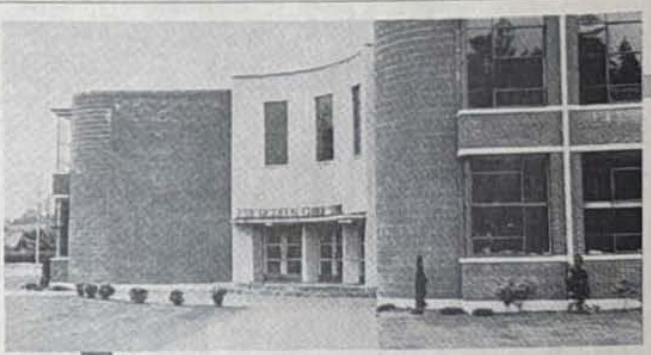
●COURTHOUSE ALTERATIONS— Portland, Ore.

Bids will be opened 10:30 a.m., August 1, by Multnomah County Commissioners, John W. West, purchasing agent, 504 Multnomah County Courthouse, Portland, for alterations in Courthouse, and for furnishing parapet roof drains for Courthouse. Plans with roadmaster, 2115 S.E. Morrison St. $2 charge each project. Certified check or bid bond 10%. WB 7-17

MEDICAL CLINIC ADDITION— Portland, Ore.

Plans will be issued to select list of bidders in first half of August for a three-story, 42'x104' reinforced concrete addition to Medical Clinic, 4212 N.E. Broadway, Portland. Plans by Burns, Bear, McNeil & Schneider, 2940 S.W. Belmont St., Portland.

Reinforced concrete with some curtain wall construction; brick exterior finish; aluminum sash; built-up roof on concrete; asphalt and vinyl tile flooring; acoustical tile ceilings and mechanical acoustical ceiling structure; mostly plaster wall finish; steam heating with oil or gas boiler. Facilities will be provided for X-ray; internal



architect:
CHARLES V. RUEGER

contractor:
Lewis Construction Co.

mason contractor.
FRED R. BOEDECKER

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medicine; surgery; eye, ear, nose and throat, and dentistry. WB 7-17

STATE OFFICE BUILDING REPAIRS— Salem, Ore.
(Estimated cost $110,000)

Architects William I. Williams and John Grimmer Groom, 467 Marion St., Salem, have been retained to prepare plans for structural repairs, including floor rehabilitation and rewiring for the State Capitol Bldg. in Salem, according to Secretary of State Mark Hatfield. Relocation of several state agencies will be necessary to make room for the repair work. Bids will be called after plans have been approved. CP 7-16

SWIMMING POOLS, PARKS— Salem, Ore.

Three proposals were approved in the July 11 special election held in the city of Salem for swimming pool and park improvements. School district voters favored a pool repair levy of $52,000 a year for two years, while city voters approved an extra pool repair $38,000 levy a year for two years. The swimming pool measures will raise a total of about $180,000 for renovation of Olinger and Leslie pools which are jointly operated by the City of Salem and Salem School District. In addition to those measures, voters approved a $150,000 bond issue to improve city parks. Parks included for the scheduled improvements are Highland Park, Fairmount Playground, West Salem Playground, River Road Playground, Clarmont St. Playground, Fairgrounds Playground, Albert-Wallace (Marine) Park, Pringles Creek Park and Bush Pasture Park. SC 7-17

LABOR AND INDUSTRIES BUILDING— Salem, Ore.

Secretary of State Mark Hatfield is urging the Department of Finance & Administration to recommend immediate planning of a labor and industries building in the Capitol Mall. SC 7-17

■ **SCHOOL ADDITIONS— Siletz, Ore.**

Planholders announced for 42'x61', two-classroom and corridor, reinforced concrete addition to grade school, and completion of locker room in basement of adjoining gymnasium at Siletz. Bids will be opened 10:30 a.m., July 23, by Lincoln County School District, Marion Huff, superintendent-clerk, Court House, Newport. Plans with superintendent or with F. Marion Stokes, architect, 205 Hughes Bldg., Portland. $25 deposit.

Planholders: C. W. & Willis A. Hill, P.O. Box 682, Salem; L. H. Meloy, 1215 N. Liberty St., Salem; Sterner Construction Co., 13845 S.E. Rhine St., Portland; Cascade Contractors, P.O. Box 774, Eugene; George S. Millette, Jr., 330 Sunset Drive, Eugene. WB 7-17. Previous report 7-3

● **CITY HALL WORK— Silverton, Ore.**

Bids will be opened August 5 by City Council, R. E. Borland, city manager, City Hall, Silverton, for rebuilding the concrete ramp and retaining wall on the north end of the City Hall and for installation of a 2100-gallon fuel oil tank under this ramp. Specifications with above office. SP 7-12

BAPTIST CHURCH— Springfield, Ore.
(Estimated cost $115,000)

Bid call will be issued about July 22 by First Baptist Church, J. Melvin Elving, pastor, Springfield, for construction of two-story frame first unit of new church at 12th and "G" streets. Plans nearly complete by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland.

Includes fellowship hall for temporary use as sanctuary seating 240 persons, and Sunday School rooms in basement. Frame construction; concrete and wood floors; brick and vertical tongue and groove board exterior finish; aluminum sash; built-up roof with gravel topping; gypsum and wood paneling interior wall finish; acoustical tile ceilings; glued laminated arches; cathedral glass roof trellis; asphalt and vinyl asbestos flooring; recessed and surface incandescent lighting; electric radiant heating in floors; electric unit heaters. WB 7-17

PARISH— Sublimity, Ore.
(Estimated cost $60,000)

Construction underway under the supervision of Hubert Stuckart, Sublimity, for a structure to house three apartments, an office and full basement at St. Boniface parish at Sublimity. Completion is scheduled for late fall. SC 7-12

● **SWIMMING POOL BUILDING— Sweet Home, Ore.**

Bids will be opened 8 p. m., August 5, by U.H.S. District No. 2, Harold Dishaw, superintendent, Sweet Home, for 58'x150' reinforced concrete building to cover existing swimming pool. Plans with Raymond Kermit Thompson and Polly Povey Thompson, architects, 1728 N.W. 32nd Ave., Portland. $25 deposit. Bid bond 5%.

Reinforced concrete and some concrete block construction; south wall has aluminum sash and aluminum sliding doors; plexiglass glazing; steel roof trusses with steel decking, fibreglas insulation and built-up roofing; plaster over concrete block areas; painted interior and exterior; fibreglas acoustical tile ceilings; water heater and filter for pool (other mechanical equipment already installed in pool); space heaters from existing steam plant; automatic roof ventilators; incandescent lighting; portable 1 bleachers under separate contract. WB 7-17. Previous report 1-3

★ **GARAGE— Talent, Ore.**

Award to Thomas J. Parker, Ashland, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of a garage building at Talent; Spec. No. 100C-295. SP 7-16

● **LIGHT STATION ROOFING— Tillamook, Ore.**

Bids will be opened 2 p. m., July 31, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for reroofing the lantern section of the light tower at Cape Mears Light Station, Tillamook; Inv. No. FS-1629. Specifications with above office. SP 7-17

● **FIRE HALL ADDITION—West Linn, Ore.**

Bids will be opened 8 p. m., August 14, by city recorder, Andy Harila, West Linn, for 32'x40' concrete and frame addition to existing fire hall. Plans with Stuart B. Mockford, architect, 723 Washington St., Oregon City. $25 deposit. Bid bond 5%.

Concrete lower floor to house two fire engine; frame upper floor will provide additional living quarters; composition shingle roof; shakes on side walls; wood overhead doors; wood sash; some linoleum tile and formica work; heat from existing plant; some electrical work and plumbing; plaster wall finish in upstairs. WB 7-13

▲ **SEWER SYSTEM— Weston, Ore.**

Wester Construction Co., Athol, Idaho, submitted a low bid, the amount of which was not noted, for the sewer pipe and interceptor portion of the proposed city sewer system at Weston. Bids opened July 8, by City Council, City Hall, Weston. SC 7-13. Previous report 6-29

● **MENTAL HOSPITAL— Wilsonville, Ore.**

Bids will be opened 2 p.m., July 30, by Oregon State Board of Control, in room 124, State Capitol Bldg., Salem, for the first two phases of construction, involving site preparation and utilities, for the F. H. Dammasch state mental hospital near Wilsonville. Plans with Stanton, Boles, Maguire & Church, architects, 208 S.W. Start St. (Concord Bldg.), Portland. $100 (site work) and $20 (well drilling) deposits.

There will be two contracts, the first to include storm sewer, heating system trenches, roads, grading and landscaping, and the second to involve drilling water supply wells.

It is planned that bids on the first construction unit will be advertised in the spring of 1958. Plans for the second phase are to be completed in time for an early bid call if the 1959 legislature approves funds. SC 7-12. Previous report 5-28

● **GRADE SCHOOL ADDITION— Yamhill, Ore.**

Bid opening extended from July 8 to 8:30 p. m., August 1, by School District No. 16, Yamhill County, Helen Stump, clerk, Yamhill Grade School, Yamhill, for masonry and wood frame addition to Yamhill Grade School, including 159'x70' classroom section and 59'x84' physical education section. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. WB 7-13. Previous report 7-2

WASHINGTON

REFINERY— Anacortes, Wash.

A long-term contract has been concluded with The Texas Co. to supply the requirements of Texaco's new refinery now under construction at March's Point near Anacortes, according to John F. Wallin, northern division manager of Puget Sound Power & Light Co. The contract calls for the delivery of 55,000-volt power to serve requirements up to 16,700-hp at the refinery. To serve the refinery and other industry in western Skagit County and Whidbey Island, Puget plans to install the coming year a second 40,000-kva, 110/55-kv transformer bank at its March's Point substation the new equipment will double the capacity of the substation. To serve the enlarged substation Puget expects to complete construction of a second 110-kv, 23-mi. long transmission line from the Sedro Woolley switching station to the March's Point substation at Summit Park.

Underground construction is more than halfway completed at the refinery site. The 780-acre area has been fenced in and former county roads traversing the heart of the refinery have been closed to public travel. Pile driving and foundation pouring for the main processing units have been nearly completed and work is still underway on the main drainage system. Six tank foundations have been poured recently and six additional tanks are to be completed each week, with an eventual total of 60 tanks in the Texas Co. tank farm. About 100 c.y. concrete is being poured daily at the site, with about 40,000 c.y. required before the plant is completed, according to Bechtel Corp. superintendent W. V. Hanna. Other progress at the plant includes installation of a railroad spur from the nearby Great Northern line onto the refinery tract. Some delay is expected in building wharf facilities, as a result of revisions in plans, and work will not start until late August. Work is well underway on two water reservoirs which will be encased by earth levees with asphaltic cement lining. The reservoir will be located in the north refinery area in the heart of the tank farm. ET 7-16. Previous report 6-21

BULK, STORAGE BUILDINGS— Anacortes, Wash.
(Estimated cost $100,000)

Construction underway on bulk and storage buildings at Dean's Corner in Anacortes, for Pacific Gas & Fuel, Inc. The firm has purchased one acre of land west of the service station on which the buildings and warehouse will be built. ET 7-16

REFINERY— Anacortes, Wash.

The Fluor Corp., Ltd., 2500 S. Atlantic Blvd., Los Angeles, Calif., has started on the second phase of the alkylation plant at Shell Oil Co. refinery near Anacortes, with the recent unloading of part of the heavy equipment needed in the next construction step. A second Chicago Bridge & Iron Co. crew has arrived at the site and has started the erection of pressure storage vessels. ET 7-17. Previous report 6-28

■ **OFFICE BUILDING— Arlington, Wash.**

Additional planholders announced for construction of a new 42'x74' brick office and service headquarters building at Arlington. Bids will be opened 7:30 p. m., July 23, by PUD No. 1, 3030 Colby, Everett. Plans with Harmon, Pray & Detrich, architects, Lloyd Bldg., Seattle.

Planholders: Livers Brothers, 3223 E. 123rd, Seattle; Puget Sound Builders, Mayfair Apartments, Everett; Roy E. Rudd, 2911 Bond, Everett; Odegard Construction, Box 735, Everett. PD 7-13. Previous report 7-9

HANGAR— Bellingham, Wash.

Bids will be opened soon by Port of Bellingham Commissioners, Dock Waterway, Bellingham, for construction of a four-unit hangar at the airport in Bellingham. Specifications are to be prepared for a pole frame and steel frame type structure.
ET 7-17

★SAFEWAY STORE— Chehalis, Wash.

Award to K. T. Henderson Construction, 1362 Colorado, Longview, no figure available, by Safeway Stores, Inc., 1200 Westlake Ave. N., Seattle, for construction of a food market at 6th and Market streets in Chehalis. Plans by Harold W. Hall, architect, Commerce Bldg., Everett. PD 7-13. Previous report 5-25

■NATATORIUM— Chehalis, Wash.

Planholders announced for construction of an 11,600 sq. ft., one-story, concrete block natatorium building, containing an L-shaped swimming pool varying in depth from 3½' to 5' to 5'11"' in diving area, at 13th and Mills streets in Chehalis. Bids will be opened 3 p.m., July 29, by City Commissioners, City Hall, Chehalis. Plans with Margaret McChord, city clerk, City Hall, and with C. W. Faithfull and James W. Wilson, architects, Masonic Bldg., Chehalis.

Planholders—GENERAL: K. T. Henderson, 1362 Colorado St., Longview; Harold M. Hill, 1116 15th Ave., Longview; Cascade-Olympic Construction Co., Route 2, Box 131, Shelton. MECHANICAL: Rainier Mechanical Contractors, Box 2128, Tacoma; Pacific Waterworks Supply Co., 2900 1st Ave. S., Seattle. ELECTRICAL: James Electric Co., 1504 Market St., Chehalis. POOL: Gun-Crete Cement Co., 10813 S.W. Barbur Blvd., Portland, Ore.; McDonough Steel Co., 800 75th Ave., Oakland, Calif.
SP 7-17. Previous report 7-5

●RESIDENCES— Darrington, Wash.

Bids will be opened 2 p.m., July 31, by Regional Supply Officer, Box 4137, 729 N.E. Oregon, Portland, for construction of two 50'x40' one-story frame ranger station residences at Darrington; Bid No. 12. Specifications with above office and with Supervisor, Mt. Baker National Forest, Post Office Bldg., Bellingham.
SP 7-12

●ELEMENTARY SCHOOL—Edmonds, Wash.

Bids will be opened 2 p.m., August 2, in the Board room, Edmonds High School by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for construction of the one-story, 38,000 sq. ft. five building Melody Hill Elementary school at 62nd Ave. W. and 222nd St. S.W., Mountlake Terrace. Plans with Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. $50 deposit.

Project includes: slab-on-grade; lightweight cement block; glued laminated beams, flat built-up roof; fibre glass roofing; plasterboard, cement-asbestos partitions; wood sash; Ultra-lite insulation in ceiling; asphalt tile flooring; oil-fired hot water heat exchangers.
PD 7-13. Previous report 5-28

●CHURCH SANCTUARY— Everett, Wash.

Sub-bids will be opened July 17 by Newland Construction Co., Box 230, Everett, for construction of a 100'x114' one-story partial basement church sanctuary, adjacent to existing church, for First Congregational Church, Rockefeller and Everett avenues, Everett. Plans with Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.

Wood frame; concrete slab-on-grade; glued laminated arches; plant gable roof; rigid insulation; brick veneer exterior; metal sash; asphalt, vinyl asbestos tile; gas-fired hot water forced air heat, convectors. Plans include 250-capacity sanctuary, church parlor, kitchen, administrative area, lavatory facilities.
PD 7-16

●REST ROOMS— Everett, Wash.

Bids will be opened 8 p.m., July 24, by Port of Everett, T. P. McCutchan, manager, Pier 1, Everett, for construction of rest rooms and related facilities at Everett Yacht Basin. Plans with James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. $10 deposit. Certified check, cashier's check or bid bond 5%.
HH 7-17

▲ROOFING REPAIR— Fairchild AFB, Wash.

Bids received by U.S. Air Force, Procurement Office, Fairchild AFB, for repair of building roofs at the base; Inc. No. 57-123. Bids opened July 10. LOW BIDS: Northwest Roofing Contractors, E. 7207 Sprague, Spokane, $22,123; Krueger Sheet Metal Works, W. 17 Main, Spokane, $29,343; Brunette Roofing, 1318 N. Walnut, Spokane, $23,588.
LL 7-12

BOWLING CENTER— Hoquiam, Wash.
(Estimated cost $50,000)

Construction underway by Harold L. Schmidtke, general contractor, 431 Emerson, Hoquiam, on the new East Side bowling alley at Hoquiam. The 96'x150' concrete block building will contain 15 alleys with automatic pinsetters, a tavern and snack bar. Adjacent to the alley will be parking space for 120 cars. Completion is scheduled for early fall.
SC 7-17

JUNIOR HIGH SCHOOL—Kennewick, Wash.

Working drawings underway by John S. Villesvik, architect, 109 N. 3rd St., Yakima, for construction of a new junior high school at 4th and Union in Kennewick, for Kennewick School District No. 17, Edward F. Bloom, superintendent, 500 S. Dayton St., Kennewick. IG 7-17. Previous report 6-26

ADULT EDUCATION CENTER, SHOP— Kirkland, Wash.
(Estimated cost $80,000)

Preliminary plans and cost estimates have been completed by Cummings & Martenson, architects, 250 Market St., Kirkland, for Lake Washington School District No. 414, J. Tremaine McGintry, clerk, Box 188, Kirkland, for remodeling and conversion of Stewart Heights Administration Bldg., 10903 N.E. 53rd, Kirkland, into a 16,000 sq. ft. adult educational center and a 4,000 sq. ft. maintenance shop. Plans involve re-siding of existing building with 3/16" asbestos cement panels; asphalt and gravel re-roofing of built-up roof; plasterboard partitions; 3,600 sq. ft. asphalt tile flooring on concrete floor; sheet metal duct work; renovating of existing furnace, installation of gas-fired unit heaters; re-wiring entire building. Financial arrangements to be considered by Board of Directors before further action on the project.
PD 7-16

▲SCHOOL— Lacey, Wash.

Bids received by North Thurston School District No. 3, Lacey, for construction of a five-classroom addition to the Mountain View Elementary School at Lacey. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. Bids opened July 10. LOW BIDS: Cascade Olympic Construction Co., Route 2, Box 131, Shelton, $59,698; M & O Construction Co., 1323 S. K St., Tacoma, $62,144; Construction Engineers & Contractors, Inc., 801 Port of Tacoma Road, Tacoma, $62,987.
HH 7-13. Previous report 6-26

SCHOOL— Lynden, Wash.

Lynden School District No. 504, Elbert Isom, superintendent, Lynden, has approved the purchase of eleven acres of land for construction of the William A. Fisher school at Lynden.
ET 7-17

■JUNIOR HIGH SCHOOL— Mead, Wash.

Planholders announced for construction of an 18-classroom, one-story, concrete junior high school building at Pittsburgh Ave. and Center St. in Mead, on which bids will be opened 8 p.m., July 23, by Mead School District No. 354, Mead. Plans with Culler, Gale, Martell & Norrie, architects, 615 Realty Bldg., Spokane.

Planholders — GENERAL: Selkirk Construction Co., W. 722 16th; Sceva Construction Co., N. 2928 Madelia; Johnson-Busboom-Rauh, N. 601 Cedar; E. R. Haynes, W. 2028 Sinto; AAA Construction Co., N. 739 Helena; Purvis Construction Co., Box 64, Yardley; Allied Construction Co., Box 124; William F. Spilker & Sons, Route 5. MECHANICAL: Standard Plumbing & Heating, E. 1801 Sprague; McClintok & Turk, N. 3812 Division; C. E. Womack, S. 328 Jefferson; Arnold & Jeffers, N. 1309 Ash. ELECTRICAL: Electric Smith, E. 123 Sprague; Rod's Electric, N. 1020 Washington; Frost Electric, N. 2115 Division. All of Spokane.
LL 7-12. Previous report 7-10

CHURCH— Mesa, Wash.
(Estimated cost $30,000)

Construction will start soon for a new church at Mesa, for United Protestant Church, Rev. Theron A. Zimmerman, acting minister, Mesa. The Washington Congregational Christian Conference and the Board of Home Missions, New York, has approved a loand and grant for the building.
SC 7-16

●■STORE ADDITION, DRUG STORE— Mercer Island, Wash.

Bids will be opened 2 p.m., July 23, in the office of architects Detlie & Peck, Securities Bldg., Seattle, by Richard Anderson,

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owner, for construction of a 4,800 sq. ft. drugstore, and a 2,300 sq. ft. addition to Art's Food Center, Mercer Island Shopping Center, Mercer Island. $10 deposit. One general contract.

Drug store involves wood frame; concrete slab-on-grade; concrete block; batt insulation in built-up roof, wood joists; dry-wall partitions; asphalt tile flooring; oil-fired hot air heating. Addition includes concrete block walls; t&g roof decking on steel beams; rigid insulation in built-up roof; dry-wall partitions; some asphalt tile flooring; extension of existing heating plant. Storage area, office space, heating plant and toilet facilities in addition, some asphaltic concrete surfacing for parking area by drug store.

Planholders: Cawdrey & Vemo, 3601 Fremont Ave.; E. F. Sjicl, 535 Pontius Ave.; Hainsworth Construction, 3028 Western; Veale Construction, 2nd and Cherry Bldg.; Wick Construction, 720 N. 35th; Strand, Inc., 1801 N. 34th; Jentoft & Forbes, 927 W. 46th; Roxbury Construction Corp., 204 109th S.E., Bellevue; Ed Brehm, 9406 N.E. 32nd, Bellevue; H. E. Forsman, 3833 Stone Way; C & R Builders, 1619 8th Ave. N. All of Seattle except as noted. PD 7-13

●■ELEMENTARY SCHOOL—
Metaline Falls, Wash.

Bids will be opened 3 p. m., July 23, by Metaline Falls School District No. 57, Metaline Falls, for an elementary school. Plans with McClure & Adkison, architects, Sherwood Bldg., Spokane.

Planholders: R. C. Worst, 625 Best Ave., Coeur d'Alene, Idaho; Northwestern Construction of Washington, Box 1135, Spokane; Hansen & Parr, W. 315 Boone, Spokane; Purvis Construction Co., Box 64, Yardley; Selkirk Construction Co., W. 722 16th, Spokane; E. R. Haynes, W. 2028 Sinto, Spokane. LL 7-12

▲CHURCH ADDITIONS, ALTERATIONS—
Oroville, Wash.

Two bids received and subsequently rejected by Catholic Diocese of Spokane, S. 317 Howard, Spokane, for additions and alterations to Immaculate Conception Catholic Church in Oroville. Plans by Henry J. Swoboda, architect, N. 6605 Division, Spokane. Bids opened July 3. BIDDERS: Armstrong & Armstrong, Box 627, Okanogan, $51,130, $51,130; William F. Spilker & Sons, Route 5, Spokane, $51,642. LL 7-16. Previous report 6-26

REST ROOM FACILITIES—Oroville, Wash.

Bids will be called this fall by U. S. Forest Service for construction of rest room facilities in the overnight camping area now being developed on the west side of Osoyoos State Park near Oroville. An appropriation of $10,500 has been set aside by the State Parks and Recreation Commission for work at the park. SP 7-17

POST OFFICE BASEMENT EXPANSION—
Pasco, Wash.
(Estimated cost $39,000)

Plans announced by Postmaster Lon Leeper, Post Office, Pasco, for a remodeling job at the post office, involving demolition of partitions in the basement of the building to provide one 2,100 sq. ft. room. SC 7-16

▲COURTROOM, JURY FACILITIES—
Prosser, Wash.

Bids received by Benton County Commissioners, Courthouse, Prosser, for alterations to the second floor of the courthouse to provide a new courtroom, four jury rooms to replace those utilized for a new courtroom, new room for storage and Bailiff, and an additional judge's chamber, at Prosser. Plans by Cormac C. Thompson, landscape architect, 1124 5th St., Prosser. Bids opened July 11. LOW BIDS: Rupp Bros., Prosser, $39,808; Howard E. Martin, Sunnyside, $47,062; McReynolds & Boutelle, Kennewick, $49,638. SC 7-18. Previous report 6-19

●BUILDING ADDITION— Pullman, Wash.

Bids will be opened 2 p. m., August 2, in the Administration office, by State College of Pullman, Washington, Pullman, for construction of a 3,400 sq. ft. addition to the existing coffee shop in the Wilson Compton Union Building on Wilson Road, Pullman. Plans available with John W. Maloney, architect, 754 Central Bldg., Seattle, after July 18. Plans involve six 24'x24' bays; brick veneer and Arizona stone exterior to match existing building; plate glass, aluminum sash; acoustical ceiling; rubber tile flooring; lighting, heating, sound system extended from existing facilities. Plans include enlargement of fountain room, furnishing some food service equipment. PD 7-16. Previous report 7-2

▲NUCLEAR REACTOR BUILDING—
Pullman, Wash.

Bids received by Washington State College Board of Regents, 303 Administration Bldg., WSC campus, Pullman, for construction of a three-story, 69'x55' concrete nuclear reactor building to be located northeast of the campus in Pullman. Plans by Philip Keene, college architect, 305 Services Bldg., Pullman. Bids opened July 10. LOW BIDS—GENERAL: Sceva Construction Co., N. 2928 Madelia, Spokane, $132,597; Purvis Construction Co., Box 64, Yardley, $136,101; Ruud Construction Co., 602 Realty Bldg., Spokane, $143,897. MECHANICAL: James Smyth Plumbing & Heating Co., N. 216 Division, Spokane, $55,788; H. D. Powell, 612 S. Main, Moscow, $55,925; Standard Plumbing & Heating, E. 1801 Sprague, Spokane, $57,600. ELECTRICAL: Electric Smith, E. 123 Sprague, Spokane, $22,155; Spence Electric, 306 S. Washington, Moscow, $24,212; Mott Electric Co., E. 3915 Trent, Spokane, $25,261. MH 7-12. Previous report 7-9

▲GARAGE— Quincy, Wash.

Bids received on July 8 by Grant County Road District 3, Ephrata, for construction of a shop and garage in Quincy, are under study. Plans call for a 76'x40', concrete block structure. LOW BIDS: Kane, Collins, & Randolph, Quincy, $14,622; Basin Builders, Ephrata, $15,490; A. I. Ball, Quincy, $15,831. DC 7-16

●SCHOOL ADDITIONS— Randle, Wash.

Bids will be opened 8 p. m., August 8, in the superintendent's office, by White Pass School District No. 303, R. J. Cebull, secretary, Randle, for construction of two one-story school building additions to existing Randle school building. Plans with Mallis & DeHart, architects, Lyon Bdlg., Seattle. 5% bid bond, certified check or cashier's check.

Steel frame; 10,000 sq. ft.; masonry exterior; built-up roof; steel sash; plaster partitions; acoustical ceilings; asphalt tile flooring; heating connected to existing system. Two classrooms, band and choral room, administrative area, storerooms in one building; industrial arts shop in other building, both connected by covered walkways to existing school. PD 7-12

PARAMOUNT CLEANERS BUILDING—
Raymond, Wash.

Max Bayless, owner of Paramount Cleaners, Raymond, has been granted permission to construct a 14'x36' concrete block building adjacent to the present building. The old building will be razed and replaced by an addition to the structure now contemplated. Construction will be done by Gene Gurr of Raymond. SC 7-16

SHOPPING CENTER— Renton, Wash.

Working drawings will be completed in about 60 days by Johnston & Campanella, architects, Orpheum Bldg., Seattle, for construction of 60,000 sq. ft. of retail store space in Renton Highlands near existing government-owned and leased shopping center, for Greater Renton Shopping Centers, Inc., Renton. Plans involve 16,000 sq. ft. for owner's occupancy, in addition to a restaurant, recreation facilities, service area and a 500-car parking area. PD 7-16

▲ELECTRICAL WORK— Renton, Wash.

Bids received by Renton School District No. 403, Administration Bldg., 1525 4th Ave. N., Renton, for electrical work for primary service and distribution alterations at Renton Junior-Senior High School located at N. Logan and 4th N., Renton. Bids opened July 11. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. LOW BIDS: Lindberg Electric Co., 4600 Leary Way, Seattle, $13,212; Donald W. Close Co., 2921 13th S.W., Seattle, $13,400; Chapman Electric, 911 Walla Walla, Renton, $13,789. PD 7-13. Previous report 6-27

★INTERIOR PAINTING— Richland, Wash.

Award to Payton Construction Co., Boise, Idaho, $73,454, by Atomic Energy Commission, Box 550, Richland, for interior painting of about 248 various type housing units, phases 8 and 9 of a program for interior painting at Richland. SP 7-12. Previous report 7-9

★RESIDENCE— Seattle, Wash.

Award to Tex Nelson, 17301 Sylvester Road, $22,400, by Alfred W. Marr, for construction of a two-story 2,100 sq. ft. residence at 4616 28th Ave. S., Seattle. Plans by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle. Construction is underway. PD 7-16. Previous report 5-11

■RETIREMENT HOME ADDITION—
Seattle, Wash.

Planholders announced for construction of a 110'x150' two-story and partial basement wing addition to the existing retirement home. Bids will be opened 2 p. m., July 22, by Kenney Presbyterian Home, Kenneth G. Myers, secretary of the board, 7100 47th Ave. S.W., Seattle. Plans with Durham, Andeson & Freed, architects, 1100 Denny Way, Seattle.

Planholders: W. G. Clark, 408 Aurora; Jentoft & Forbes, 927 W. 46th; B. F. Turnbull, 4351 Leary Way; Veale Construction, 2nd and Cherry Bldg.; John Sellen, 228 9th Ave. N.; H. Halvorson, 20054 Pacific Highway S.; Herbert U. Taylor, 11239 Arroyo Beach Place S.W. All of Seattle. PD 7-16. Previous report 7-16

■STORE ADDITION— Seattle, Wash.

Planholders announced for construction of a 3,000 sq. ft. addition to the Brennan Supply Co., 14032 Aurora Ave., Seattle. Bids will be opened 5 p. m., July 17, by the owners. Plans with Seth McCallen Fulcher, 9797 Holman Road, Seattle.

Planholders: Leo Ereth, 1526 W. 167th; Thomas Rose, 16725 15th N.W.; G. W. Hunter, 10311 32nd N.E.; F. E. Casey, 1313 11th Place N., Edmonds; Gill Construction, Inc., 5117 25th N.E.; Ken Heggen, 6071 Wellesley Way, Cliff Marston, 4608 E. 103rd. All of Seattle except as noted. PD 7-16. Previous report 7-12

★CLINIC— Seattle, Wash.

Award to Riley Pleas, Inc., 522 19th Ave. N., Seattle, $231,243, (general, mechanical, electrical), by Group Health Cooperative of Puget Sound, 200 15th Ave. N., Seattle, for construction of a one-story frame clinic at Northgate. Plans by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle. Bid for mechanical and electrical contracts were submitted at an earlier bid opening and subsequently included in the above contract award. PD 7-16. Previous report 6-13

★CLINIC—Electrical and Mechanical—
Seattle, Wash.

Award to L. G. Massart Plumbing & Heating, 3839 Stone Way, (mechanical) and to B & B Electric Contractors, 7100 Rainier Ave. (electrical), no figures available, by Group Health Cooperative of Puget Sound, 200 15th Ave. N., Seattle. Plans by Paul Hayden Kirk, architect, 615 Lakeview Blvd., Seattle. These bids were incorporated into the general contract submitted by and awarded to Riley Pleas, Inc., 522 19th Ave. N., Seattle, $231,243. PD 7-16. Previous report 6-6

★RESTAURANT— Seattle, Wash.

Award to E. C. Rasmussen Construction Co., 7720 E. Green Lake Way, Seattle, $25,000, by Albert Bon, owner, for alterations and additions to Luau Barbecue Restaurant, 315 Broadway North, Seattle. Plans by Wisbeck & Konzen, architects, 564 Broad St., Seattle. PD 7-16. Previous report 7-6

▲ MAPLE FLOORS— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing and installing maple floors in county field houses. Bids opened July 15. LOW BIDS: Queen City Floor Co., Inc., 310 W. Republican, Seattle, $11,470; Lundwick & Brown Floor Co., Inc., 1902 N. 34th, Seattle, $11,590. Puget Sound Floor Co., Inc., 6015 244th S.W., Mountlake Terrace submitted a bid of $3,950 for only one unit.
PD 7-16. Previous report 7-6

● ELEMENTARY SCHOOL ADDITIONS— Seattle, Wash.

Bids will be opened 2 p. m., August 13, by Shoreline School District No. 412, Myron Ernst, secretary, in the Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for construction of additions to North City Elementary School at East 190th between 8th and 10th Ave. N.E. Plans with Mallis & DeHart, architects, Lyon Bldg., Seattle. 5% bid bond, certified check, cashier's check.
PD 7-16

ELEMENTARY SCHOOL— Seattle, Wash.

Preliminary plans are completed by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle, for construction of the 27,000 sq. ft. one-story Cascade Elementary School at 32nd and S. 136th St., Seattle, for Seattle School District No. 1, S. E. Fleming, superintendent, 815 4th Ave. N., Seattle. Plans include two six-classroom units, an administrative unit and a multi-purpose unit.
PD 7-12

● HOSPITAL ADDITION, REMODELING— Seattle, Wash.

Bids will be opened at 2 p. m. (general, elevator contracts), 2:30 p. m. (electrical contract) and 3 p. m., (mechanical contract) on July 23, in the office of Stoddard, Huggard & Associates, architects, 1120 Harvard Ave., Seattle, for construction of three additional floors, and remodeling of existing building at Seattle General Hospital, 5th Ave. and Marion St., Seattle. Reinforced concrete; metal spandrels; flat built-up roof; metal lathe, plaster partitions; asphalt tile, grounded tile, ceramic tile; rigid insulation exterior walls, roof; air conditioning, vetilation system. Plans include new entrance and foyer, emergency room and X-ray room, five operating rooms, patients' rooms.
PD 7-13. Previous report 7-13-56

● HEATERS— Seattle, Wash.

Bids will be opened 10 a. m., July 24, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing of electric baseboard heaters. Specifications with above office (Spec. No. 1526).
PD 7-17

CHURCH ADDITION— Seattle, Wash.

Working drawings are underway by Clifford Dobson, architect, 4115 University Way, Seattle, for construction of an 9,360 sq. ft. one- and two-story addition to the existing church, for Church of Jesus Christ of Latter Day Saints, second ward, 4001 44th Ave. S.W., Seattle. Masonry construction; slab-on-grade; cast stone or mosaic stone exterior; metal windows; some plaster partitions, some pumice block and exposed brick; asphalt tile; maple floor in gymnasium; forced warm air heat, some hot water radiation. Plans include a kitchen, lobby, administrative area, gymnasium - recreation with stage at one end, locker rooms, toilet area, classrooms.
PD 7-17

● ■ RESIDENCE— Seattle, Wash.

Bids will be opened July 22 in the office of architect Thomas Albert Smith, 107 Cherry, by George Strobel, owner, for construction of a one-story and daylight basement 1,500 sq. ft. residence at Angle Lake. Plans with the architect. Select list of bidders.

Planholders: Merle Suver, 19318 3rd S., Seattle; M. P. Umberger, Seattle; Everett Tiggard, 8300 Fauntleroy, Seattle; Al Fast, 2559 E. 98th, Seattle; Busch Construction, 15832 96th Ave. S., Renton.

Plans involve wood frame; butterfly roof; fibre glass insulation in roof; t&g cedar siding; drywall partitions; slate, carpeting, hardwood, vinyl tile, ceramic tile flooring; oil-fired warm air heat.
PD 7-17

● COMFORT STATIONS— Seattle, Wash.

Bids to be opened 10 a. m., July 30, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for construction of comfort stations at West Seattle Golf Course. Plans with Park Department Office, 100 Dexter Ave., Seattle. Certified check or bid bond 5%.
DM 7-17

HARRISON ELEMENTARY SCHOOL ADDITION— Seattle, Wash.

Working drawings are almost complete by Jones & Bindon, architects, 715 Hoge Bldg., Seattle, and bids will be called the end of July by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for 10,000 sq. ft. (approximately) of remodeling, and a 22,500 sq. ft. addition to Harrison Elementary School, 413 32nd Ave. N., Seattle. Addition involves concrete slab-on-grade; precast concrete columns; glued laminated beams; 2"x6" t&g flat built-up roof, 1½" rigid insulation in roof; brick veneer exterior; aluminum window walls with cement-asbestos board insulated filler panels, plastic coating; drywall partitions; asphalt tile flooring; extension of existing heating system. Remodeling includes toilet area, nurses room, teachers room, addition of bookstorage area. There will be two small brick and concrete interior courts with open planting area.
PD 7-17. Previous report 3-26

● LUSTER APARTMENT— Seattle, Wash.

Sub-bids will be received until July 29 by Carl Luster, owner, 663 Skinner Bldg., Seattle, for construction of a nine-unit 8,700 sq. ft. apartment building at 24th Ave. N.E. and E. 53rd St. General contractor and co-

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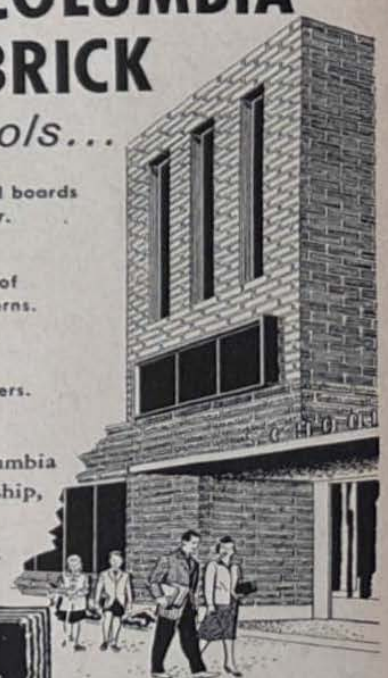


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owner is Lorn Elliott, c/o Carl Luster, above address. Plans by Jones, Lovegren, Helms & Jones, architects, Republic Bldg., Seattle. Wood frame; brick veneer; metal windows; drywall partitions; batt insulation in roof and walls; carpeted floors; some ceramic tile; hot water electric baseboard heat. Units will have steel and concrete stairs and balcony. PD 7-17

●GALLEY ALTERATIONS— Seattle, Wash.

Bids will be opened 3 p. m., July 25, by Department of the Navy, Public Works Office, Bldg. No. 11, U. S. Naval Air Station, Seattle, for alterations to galley, Chief Petty Officer's Club, U. S. Naval Air Station, Seattle; Spec. No. 660 6/57. Plans with above office. Work consists of removal and alterations of partitions; removal of galley fixtures; removal of drop ceiling; extension of existing tile floor; painting; connecting fixtures to electric power, water and sanitary sewer; removal and replacement of about 40' underground sanitary drain. SP 7-13

JUNIOR HIGH SCHOOL— Selah, Wash.

Plans will be complete late this summer for construction of the one-story, three-unit, 18-classroom junior high school and an administration building at Selah, for Selah School District No. 119, Elmo Steinke, superintendent, Sunrise Park, Selah. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima.

Classrooms will be in three units with two units having seven classrooms each and one having four. Building will have concrete slab on grade; window wall construction; glued laminated beams, steel pipe columns; built-up composition roof, 3"x6" wood decking; frame partitions; steel windows; brick veneer; plaster and wood lath partitions; asphalt tile flooring; plaster, acoustical ceilings; 2" rigid insulation in roof; hot water heating system, oil fuel. Administration building will be the same as above. IG 7-12. Previous report 6-7

GYMNASIUM— Selah, Wash.

Working drawings underway by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima, for construction of a new concrete block gymnasium in connection with new junior high school in Selah, for Selah School District No. 119, Elmo Steinke, superintendent, Selah.

Poured concrete footings and foundations; hardwood floors; steel columns and trusses; steel truss built-up composition roof, 3"x6" wood decking; plaster and paint interior finish; plaster and wood lath partitions; ceramic tile flooring in showers; acoustical ceilings; metal lockers; 2" rigid insulation in roof; hot water heating system, oil fuel. IG 7-12. Previous report 3-8

★BUILDING PAINTING— Spokane, Wash.

Award to Springer Painting Co., N. 722 Monroe, Spokane, $2,690 (Item No. 2), by 13th Naval District, room 100, Bldg. 232, U. S. Naval Station, Seattle, for interior painting of Bldg. Nos. 300, 900 and 1100; Spec. No. 12242/57.

PD 7-12. Previous report 6-27

★DAIRY PLANT— Spokane, Wash.

Awards announced by Inland Dairy Association, Joe M. Click, general manager, W. 1803 3rd, Spokane, for construction of a dairy processing plant for the Inland Empire Dairy Association on Francis Ave. east of Division St. in Spokane. Plans by Funk, Murray & Johnson, architects, W. 524 4th, Spokane. No figures available on the following. AWARDS—GENERAL: Eric Plath, Box 6235, Spokane. MECHANICAL: James Smyth Plumbing & Heating, N. 216 Division, Spokane. ELECTRICAL: Brown-Johnson, N. 118 Lincoln, Spokane.

LL 7-12. Previous report 6-12

★DETENTION ADDITION—Spokane, Wash.

Award to William F. Spilker & Son, Route 5, Spokane, $226,640, by Spokane County Commissioners, Courthouse, Spokane, for construction of a 14,075 sq. ft. wing at the juvenile detention home in Spokane. Plans by Henry J. Swoboda, architect, N. 6605 Division, Spokane. Bids opened June 27.

LL 7-12. Previous report 6-21

●GAS UNIT HEATERS— Spokane, Wash.

Bids will be opened 4:30 p. m., July 24, by School District No. 81, Spokane County, Building and Grounds Department, Spokane, for installation of new gas unit heaters in John Rogers High School. Specifications with above office. $10 deposit. Bid bond 5%. LL 7-12

COMMUNITY COLLEGE— Spokane, Wash.

Spokane school officials are investigating possible use of George Wright AFB property for construction of a community college.

SC 7-17

★OFFICE BUILDING— Spokane, Wash.

Award to Hazen & Clark, W. 108 Boone Ave., Spokane, $59,048, by Lincoln First Federal Savings & Loan Association, for construction of the Spokane Valley branch of the company. Plans by Whitehouse, Price, DeNeff & Deeble, architects, 715 Hutton Bldg., Spokane. Bids opened July 12. Contracts were also awarded to Electro-Kold Refrigeration Factory & Service Shop, S. 151 Post, Spokane, for air conditioning installations, and to Spokane Safe & Lock Co., S. 213 Howard, Spokane, for installing the vault. Other low bidders on the project were Pacific Electric Co., S. 507 Sherman, Spokane, on the electrical work, and Standard Plumbing & Heating, E. 1801 Sprague, Spokane, on mechanical work.

SC 7-17. Previous report 7-3

●MULTIPURPOSE UNITS—Spokane, Wash.

Bids will be opened 4:30 p. m., July 24, by Spokane School District No. 81, in room 107, Lewis and Clark High School, W. 521 4th Ave., Spokane, for construction of seven 70'x100' Haydite block multipurpose units at Hamblen, Lincoln Heights, Pratt, Holmes, Lidgerwood, Ridgeview and Westview elementary schools. Plans with architects Stuart Blackwell & Associates, N. 119 Post St., Spokane, and Frederic A. Long, 500 Columbia Bldg., Spokane. $50 deposit.

Brick veneer paneling; steel deck built-up roofing; concrete floors; vinyl plastic, quarry tile, ceramic tile floor covering; ceramic tile wainscot; gas fired hot air heating systems.

SC 7-17

BON MARCHE RENOVATION— Tacoma, Wash.

(Estimated cost $40,000)

Work underway by Udall Construction Co., Security Bldg., Tacoma, for extensive exterior renovation on the Bon Marche building at S. 11th and Broadway in Tacoma, according to managing director John H. Keeler. The project includes sandblasting, window painting, repairing all grille work and installing a new rear entrance. SC 7-16

★STADIUM HIGH SCHOOL—Tacoma, Wash.

Award to Woodard Construction Co., 3842 N. Frace St., Tacoma, $167,800, by Tacoma School District No. 10, Business Office, 5th floor, School Administration Bldg., Tacoma, for remodeling work, involving roof reconstruction, at Stadium High School, 111 N. E St., Tacoma. Plans by E. J. Breseman, architect, Perkins Bldg., Tacoma. Bids opened July 8. SC 7-12. Previous report 6-25

TACOMA BUILDING REHABILITATION— Tacoma, Wash.

(Estimated cost $100,000)

Plans announced by Weyerhaeuser Timber Co., Tacoma Bldg., Tacoma, for rehabilitation of the old 10-story Tacoma Bldg., including a two-story addition to make the building a 12-story structure. Work will involve cutting through old walls, installing new connecting halls and removing old elevators.

SC 7-17

PORT IMPROVEMENTS—Vancouver, Wash.

(Estimated cost $300,000)

Plans announced by Port of Vancouver, Kenneth Engebretsen, port manager, Foot of W. 16th, Vancouver, for improvements to terminal No. 2, including addition of a huge loading crane and addition of a 300'x140' section to the dock. Money for the project will be raised through sale of bonds. The terminal will be approximately 1,300' long with the addition and will have a berth capacity of three large ships. SC 7-16

MONUMENT FACILITIES EXPANSION— Walla Walla, Wash.

Plans announced by National Park Service, Lawrence Merriam, regional director, and W. J. Kennedy, superintendent of the monument, Walla Walla, for expansion of the Whitman National Monument facilities, involving construction of visitor center building, museum, two residences and other facilities. It is possible that the expansion may be completed by 1957. SC 7-16

▲ADMISSION-SECURITY BUILDING— Walla Walla, Wash.

Bids received by Lloyd K. Nelson, acting director, General Administration, General Administration Bldg., Olympia, for construction of Admission and Security building at Washington State Penitentiary. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle. Bids opened July 12. LOW BIDS—GENERAL: Johnson-Busboom-Rauh, 601 N. Cedar, Spokane, $799,940. MECHANICAL: W. R. O'Rourke, 339 S. 2nd, Walla Walla, $378,234. ELECTRICAL: Electric Smith, E. 123 Sprague, Spokane, $99,846. PRISON EQUIPMENT: Decatur Iron & Steel Alabama, $284,533.

DE 7-17. Previous report 7-11

SMELTING PLANT EXPANSION— Wenatchee, Wash.

(Estimated cost $10,000,000)

Aluminum Co. of America, W. N. Farquhar, manager of Wenatchee Works, Wenatchee, has announced plans for a $10,000,000 expansion of its smelting plant at Wenatchee by mid-1961. This news was announced simultaneously with notice of an agreement to purchase 23 per cent of the power generated by Chelan County Public Utility District No. 1's Rocky Reach dam, under construction on the Columbia River near Wenatchee. Alcoa's agreement to pay 23 per cent of all cost of building and operating the Rocky Reach project over a 50-year contrate period is contingent on a provision that final costs, including financing expenses, do not exceed certain limits. The proposed new potline would use 50,000 kw. of firm power.

WB 7-16

●RANGER STATION RESIDENCE— Wenatchee, Wash.

Bids will be opened 2 p. m., August 1, by U. S. Forest Service, in the office of the Regional Supply Officer, 729 N.E. Oregon St., room 18 (Box 4137), Portland, for construction of the one-story 50'x40' frame Lake Wenatchee ranger station residence, Wenatchee National Foest, Chelan County, Wash.; Bid No. 16. Plans with above office and with Supervisor, Wenatchee National Forest, Post Office Bldg., Wenatchee.

SP 7-16

INSURANCE BUILDING— Yakima, Wash.

Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima, has been retained by United Pacific Insurance Co., George Brown, Liberty Bldg., Yakima, to prepare plans and specifications for construction of a new office building at E. Yakima Ave. and S. Naches Ave. in Yakima. IG 7-16

STORE REMODELING— Yakima, Wash.

(Estimated cost $20,000)

Work will start soon by Quality Builders, Box 1503, Tacoma, on remodeling work, including an addition to the mezzanine floor at MacDougal's Store, 209 E. Yakima Ave., Yakima. Owner is Ditter MacDougal. Plans by Lyle Swedberg, architect, 911½ Pacific Ave., Tacoma. Work will consist of the above addition, new railing, plastering and finishing walls to match those of existing building, remounting some light fixtures and adding some new fluorescent lights. IG 7-16

MEDICAL CENTER ADDITION— Yakima, Wash.

Working drawings underway by Doudna & Williams, architects, 325 Miller Bldg., Yakima, for construction of a five unit addition to the Yakima Medical Center building on 12th and W. Spruce St. in Yakima, for Yakima Medical Association, Dr. Fred C. Hopp, president, 307 S. 12th Ave., Yakima. Each unit to be a separate building located around landscaped court developments.

IG 7-12

IDAHO

●CAPITOL BUILDING RENOVATION— Boise, Idaho

Bids will be opened July 25 by Arthur Warren, commissioner, Department of Public Works, State Capitol Zldg., Boise, for renovations, including building repair, cleaning and waterproofing, to the State Capitol Bldg. Specifications with above office. SC 7-12

HIGH SCHOOL RENOVATION—Boise, Idaho

The Board of Trustees of Boise Independent School District, D. C. Beaumont, superintendent, 1207 Fort St., Boise, has voted unanimously to accept a bid for a "precipitron" heating-cooling system as part of the renovation of Boise High School. The accepted system will cost about $207,300. Plans for the renovation project by Hummel, Hummel & Jones, architects, 1324 Idaho, Boise. SC 7-13. Previous report 6-5

▲USAR BUILDING ALTERATIONS— Burley, Idaho

Leonard D. Johnson, 2058 Burton Ave., Burley, submitted the only bid, in the amount of $5,983, for alterations and modifications of U.S.A.R. building at 200 E. Main St. in Burley; ENG-45-164-58-1. Bids opened July 12 by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla. SP 7-17

J. C. PENNEY STORE— Caldwell, Idaho

Construction underway by David Dorsey of Caldwell for the new J. C. Penney Co. store to be located at Kimball Blvd. and Blaine St. in Caldwell. Completion expected in October. SC 7-16

AIRCRAFT WARNING STATION— Emmett, Idaho

Construction is underway by Radio Corporation of America for the CAA for an aircraft warning station on top of Squaw Butte near Emmett. An access road will also be constructed to the site. DC 7-17

★NURSING HOME— Grangeville, Idaho

Awards, pending U. S. Public Health Service approval, have been made by Idaho County Commissioners, Courthouse, Grangeville, for construction of a 34-bed brick veneer county nursing home adjoining the General Hospital on W. Main St., Grangeville. Plans by Walker, McGough & Trogdon, architects, W.E. 1023 Riverside, Spokane, Wash. AWARDS—GENERAL: Babbitt Construction Co., Box 4038, Boise, $162,066. MECHANICAL: Lewiston Plumbing and Heating, $208 5th, Lewiston, $34,199. ELECTRICAL: Stout Electric Co., 848 Main, Lewiston, $15,526. DC 7-16. Previous report 7-2

GYMNASIUM COMPLETION— Harrison, Idaho

Bond issue for $18,000 approved in a special election held by the Harrison School District, Harrison, for funds to finance completion of the gymnasium at Kootenai High School in Harrison. SC 7-13

CREDIT UNION BUILDING— Lewiston, Idaho
(Estimated cost $22,693)

Construction underway by Kenaston & Huntley, Box 144, Lewiston, for a one-story concrete, concrete block and brick office building at 25th and Main streets in Lewiston, for Potlatch No. 1 Federal Credit Union, Herb Schmidt, vice president, Lewiston. Mechanical contractor is Miller Bros. Plumbing & Heating Co., 1116 17th Ave., Lewiston; electrical contractor is Stout Electric Co., 848 Main Ave., Lewiston. SC 7-13

OFFICE BUILDING— Lewiston, Idaho
(Estimated cost $70,000)

Plans underway by Hugh Richardson, architect, Weisgerber Bldg., Lewiston, for an office building for the Idaho Employment Security Agency in Lewiston according to Raymond D. Butler, local manager for the agency. The structure will be built at 12th and Idaho streets and an existing apartment building on the site will be removed. DC 7-16

●COLLEGE BUILDING ALTERATIONS— Lewiston, Idaho

Bids to be opened 2 p.m., July 25 by D. R. Theophilus, president of University of Idaho and Lewis-Clark Normal School at his offices in Moscow, for alterations to buildings and for mechanical equipment and incidental work at the Lewis-Clark Normal School in Lewiston. Plans with C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls. $50 deposit. Certified check, cashier's check or bid bond 5%. DC 7-16

HOSPITAL EXPANSION— Moscow, Idaho

Plans are being discussed by trustees of the Gritman Memorial Hospital in Moscow for expansion of the hospital, according to M. Kenworthy, chairman, of the board. SP 7-16

★DORMITORY— Moscow, Idaho

Awards announced by University of Idaho, Moscow, for construction of a 110-man dormitory (George L. Shoup Hall) on the campus. Plans by Lyle E. Marque & Associates, architects, 705 Realty Bldg., Spokane. AWARDS—GENERAL: Henry George & Sons, Hutton Bldg., Spokane, Wash., and Dunham Engineering Co., Box 42, Moscow, $266,857 ($259,877 basic, $6,980 for demolition of Idaho Club). MECHANICAL: C. M. Wilderman Co., 520 S. Main, Moscow, $55,555. ELECTRICAL: Maxwell's, Inc., E. 14 Mission, Spokane, $20,261. SP 7-17. Previous report 7-2

●ADMINISTRATION, LABORATORY BUILDINGS— Moscow, Idaho

Bids to be received until 2 p.m., July 25, by the business manager of the University of Idaho in his office on the campus at Moscow for construction of an administrative building at the Forestry Summer Camp in McCall and a veterinary research laboratory at the Caldwell Experiment Station in Caldwell. Bids will be opened in the office of the president, university campus, Moscow. Plans with Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise. $25 deposit. Plans may be examined in office of the university engineer, Moscow. Certified check, cashier's check or bid bond 5%. DC 7-17

●■ HIGH SCHOOL— Payette, Idaho
(Estimated cost $131,000)

Bids will be opened 8 p.m., July 22, by School District No. 371-J, in the Library Room of the High School Building, 1215 Center Ave., Payette, for rebuilding of the fire and water damaged Payette High School building. Plans with Charles W. Johnston, architect, 13 No. 8th St., Payette.

Work will consist of demolition of top floor; new built-up roof; glass block skylights; re-plastering; asphalt tile floors; new doors; new hardware; chalkboards; acoustical tile ceilings; painting interior; new electrical system; rebuilding and modernizing heating and plumbing systems. Included are four additive alternates.

Planholders—GENERAL: R. E. Rice Construction Co., 4502 State St., Boise; Babbitt Construction Co., Inc., Box 4038, Boise; L. H. Krieger Construction Co., Box 26, Nampa; Luekenga Construction Co., Box 943, Nampa; DeBord Construction Co., Box 319, Payette; David G. Dorsey, 312 N. 5th, Caldwell. MECHANICAL AND ELECTRICAL: Caldwell Electric Co., 608 Main St., Caldwell; Cook Electric, 55 Ord Blvd., Nampa; McCurry's Electric Service, 810 Arthur St., Caldwell; Electric Service Co., 821 State St., Boise; Simonson Plumbing & Heating, Route 4, Nampa; Murray Burns Plumbing & Heating, Box 2648, Boise; Baldridge Electric, 2017 1st Ave. S., Payette; F & M Electric Co., 208 11th Ave. S. Ext, Nampa; Arrow Plumbing Co., Box 148, Ontario, Ore. SP 7-13. Previous report 7-9

★BANK AND TRUST BUILDING— Pocatello, Idaho

Award to C. H. Elle Construction Co., Box 1190, Pocatello, $422,499, by Idaho Bank & Trust Co., J. Grant Bickmore, executive vice president, Carlson Bldg., Pocatello, for construction of a three-story building addition extending 40' along W. Center St. from the Carlson Bldg. and being about 90' deep. Plans by Cedric M. Allen, architect, 403 N. Main, Pocatello. The above bid does not include vault equipment, teller facilities, granite work and fixtures. The total estimated cost of the structure will be $550,000 and is to be completed about June 1, 1958. SC 7-17. Previous report 5-10

MONTANA

HOUSING UNITS— Bozeman, Mont.
(Estimated cost $131,000)

Bids will be opened about July 30 by Montana State College, R. R. Renne, president, Bozeman, for construction of 35 family-type housing units at the college. Plans by David Wessell, south of Bozeman. Bids were called earlier on this project but were not approved by the Board of Education because bids were not advertised in the paper. SC 7-16

▲ELEMENTARY SCHOOL— Circle, Mont.

Bids received by McCone County School District No. 1, Circle, for construction of a new one-story, 8,000 sq. ft., six-classroom

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elementary school at Circle. Plans by Drake & Gustafson, architects, Empire Bldg., Billings. Bids opened July 10. TWO LOW BIDS Idland & Undum, Circle, $113,935 (less $26,500 if mechanical work is eliminated); Sterhan Construction Co., Box 1247, Glendive, $118,114 (less $29,600 if mechanical work eliminated). The school district is reportedly studying advisability of awarding contract on basis of general and electrical work only and revising mechanical specifications and readvertising bids on that section of the project.

EE 7-16. Previous report 7-6

▲HIGH SCHOOL— Columbia Falls, Mont.

Bids received by Flathead School District No. 6, D. Fulton, superintendent., Columbia Falls, for construction of a new 115,000 sq. ft. 600-student high school to be located on an 8.4-acre site on 4th Ave. W. in the Hoerner Addition, Columbia Falls. Plans by Weed & Fehlberg, architects, Box 183, Kalispell. Bids opened July 12. The low bids appear to be about $200,000 in excess of funds available and plans will be revised. In view of a number of bidders asking somewhat near the same prices, a new bid call is not contemplated. Following are basic bids. GENERAL—LOW BIDS: Montana Builders Co., Box 4011, Kalispell, $1,014,695; H. Halvorson, Inc., Box 6, Yardley, Wash., $1,047,317; Gordon Construction Co., Box 319, Missoula, $1,075,000. MECHANICAL—TWO LOW BIDS: Fullerton Plumbing & Heating Co., 401 W. Main, Hamilton, $294,700; Christensen Plumbing & Heating Co., 3615 Montana Ave., Billings, $298,275. ELECTRICAL—TWO LOW BIDS: Rainbow Electric, 2220 River Drive, Great Falls, $166,104; Western Montana Electric Co., 205 W. Front St., Missoula, $173,000.

SC 7-17. Previous report 7-2

SCHOOL— Fort Missoula, Mont.

(Estimated cost $70,000)

Plans have been completed and will be reviewed by Housing and Home Finance Agency before a bid date is set by Target Range School District No. 23, Missoula County, Missoula, for construction of a four-classroom and multipurpose room school near Fort Missoula. Plans by Taylor, Thon, Schwartz & Kirkpatrick, architects, 556 3rd Ave. East-North, Kalispell. $25 deposit when bids are called.

One-story; no basement; concrete footings and foundation; 6,700 sq. ft. area; frame, block walls; concrete slab flors; timber girders, beams, columns; flat roof; masonry and frame partitions; steel windows; exposed masonry walls; exposed masonry partitions; asphalt tile flooring; spruce deck ceilings; folding doors, glass panels; blanket insulation in walls; steam heating system, unit vents, gas fuel.

RB 7-12. Previous report 6-18

★LUSTRE ELEMENTARY SCHOOL— Fraser, Mont.

Award to Morgan & Oswood, Box 225, Glasgow, $95,000, by School District No. 23, Frazer, for construction of the one-story, L-shaped, concrete block, four-classroom Lustre Elementary School in the Lustre Community at Frazer. Plans by Holland & Lund, architects, 306 Electric Bldg., Great Falls. SP 7-13. Previous report 7-6

★MOTEL— Great Falls, Mont.

Award announced by owner James B. Pannell of Bordeleau-Pannell & Amundson, architects, 309 1st Ave. N., Great Falls, for construction of the three-story and basement Mid-Town Motel at 2nd Ave. and 6th St. in Great Falls. Bids opened July 9. AWARD: Talcott Builders, 2600 9th N., Great Falls, $223,598 ($180,029 basic, $43,569 alt. add for additional floor). 2ND LOW: Palmer Construction Co., 1324 Central Ave. W., Great Falls, $182,834, $43,384. 3RD LOW: Dick Olson Constructors, Box 1371, Great Falls, $184,921, $45,207. ELEVATOR—LOW BID (not awarded): Otis Elevator Co., 400 1st Ave. S., Great Falls, $17,484.

SP 7-16. Previous report 7-2

●COLLEGE BUILDING ADDITIONS— Havre, Mont.

(Estimated cost $48,000)

Bids will be opened August 1 by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of an addition to the top floor of Cowan Hall, to house a practical nurses' laboratory and construction of a ground floor addition to the auto mechanics' building at Northern Montana College in Havre. President of the college is Dr. L. O. Brockmann. Plans with the board of examers. The nurses laboratory is estimated to cost $15,000 and the mechanics addition, $33,000. SC 7-13

CATHEDRAL RENOVATION—Helena, Mont.

Renovation work is well underway at the Cathedral of St. Helena, 551 N. Warren, Helena, according to Rev. Edward P. Gilmore, pastor of the cathedral parish. Repair aind cleaning of stained glass windows is the most important part of the project. In addition to this work, interior and exterior work is planned for completion in 1958. SC 7-16

●EXECUTIVE MANSION— Helena, Mont.

Bids will be opened 10 a. m., August 8, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of the two-story, 159½'x63', 5,900 sq. ft. Governor's mansion to be located at the corner of Carson and Broadway streets, about three blocks east of the Capitol building in Helena. Plans with Chandler C. Cohagen, architect, Hedden Bldg., Billings. Bids were previously received last December for this project and rejected as too high. Plans have been revised.

The front elevation of the building will show only one floor, with both stories being visible from the sides and back. The structure will have a low-peak sloping roof and many windows. Dominating the main floor will be the State Room which will have a high ceiling and will measure 33½'x27½'. The room will open onto a triangular shaped porch through picture window-type doors facing north. SC 7-17. Previous report 4-6

TELEPHONE FACILITIES EXPANSION— Shelby, Mont.

(Estimated cost $100,000)

Work is underway on expansion of telephone facilities and equipment in Shelby, according to Mountain States Telephone & Telegraph Co., L. G. Bucklin, manager, Shelby. The initial phase of the project required an addition to the telephone building. The addition has been completed and an installation crew, under the supervision of foreman Charles Benjamin, is now installing additional power supplies, dial switching equipment and long distance trunking equipment. A major part of the job is installing of seven new switchboard operator positions. SC 7-17

WYOMING

★HIGH SCHOOL— Rawlins, Wyo.

Awards announced by Rawlins-Sinclair-Fort Steel School District No. 3, 3rd and Buffalo, Rawlins, for construction of a three-story reinforced concrete high school at Rawlins. Plans by Kellogg & Kellogg, architects, 1909 Carey Ave., Cheyenne. Bids opened July 10. AWARD—GENERAL: L. M. Olson, Rawlins, $913,850 ($916,000 basic, $12,500 alt. 2 ded., $28,000 alt. 4 add. MECHANICAL: P. S. Cook Plumbing & Heating, 419 W. 17th St., Cheyenne, $237,899. ELECTRICAL: Simpson Electric, Inc., 920 E. 15th St., Cheyenne, $80,585.

SP 7-16. Previous report 7-3

★HOSPITAL— Thermopolis, Wyo.

Award to J. C. Boespflug Construction Co., Inc., 502 N. 25th, Billings, Mont., $1,565,507 (low bid after deletion of alternates), by Joint Board of Trustees, Hot Springs County and Gottsche Foundation Institute, Courthouse, Thermopolis, for construction of the one-story and basement 277'x479' Memorial Hospital of Hot Springs County and Gottsche Foundation Institution at Hot Springs State Park in Thermopolis. Plans by Fisher, Fisher & Davis, architects, 827 Denver National Bldg., Denver, Colo.

SP 7-16. Previous report 7-3

UTAH

★INFIRMARY— Provo, Utah

Award to Tolboe Construction Co., Box 72, Provo, $860,842, by Eldred Sunset Manor Foundations, Inc., Seth P. Billings, president, 2055 S. State St., Provo, for construction of a new 150-bed infirmary north of County Youth Home in Provo. Plans by architects Fred L. Markham, 45 N. University Ave., Provo, and Willard C. Nelson, 761 N. Yale Ave., Provo. GH 7-16. Previous report 7-6

ALASKA

●CHURCH— Anchorage, Alaska

Bids will be opened 4 p. m., July 23, in the office of Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage, for construction of the First Church of Christ, Scientist, at L St. near 13th in Anchorage. Plans with the architects. SC 7-17

★DUPLEX— Barrow, Alaska

Award to Fairbanks Builders, Inc., 1446 Turner St., Fairbanks, $137,610, by Civil Aeronautics Administration, Federal Bldg., Anchorage, for construction of a Weather Bureau duplex at Barrow; Proj. No. 5-57-136. SP 7-16. Previous report 7-13

●RESIDENTIAL, UTILITY BUILDINGS— Bartlett Cove, Alaska

Bids will be opened 2 p. m., August 15, by Superintendent, Sitka and Glacier Bay National Monuments, Box 738, Sitka, for construction of residential and utility buildings, including a one-story 25'x66' frame employes residence, two-story 24'x65' frame general storage and employee quarters, one-story 31'x76' frame equipment storage and workshop, one-story 18'x24' oil and gas house, and one-story 22'x24' frame powerhouse, at Bartlett Cove, Glacier Bay National Monument, Alaska; Proj. No. GB-W 133. Plans with National Park Service, 1000 Geary St., San Francisco, Calif. Bid bond 20%.

Concrete foundations; slab on grade; board and batten exterior walls; cedar shingles; marine (on piles) railway for pulling small boats out of water; overhead doors; floor coverings; plumbing, heating and electrical work. SP 7-13

●LATHROP HIGH SCHOOL ADDITIONS— Fairbanks, Alaska

Bids will be opened 10 a. m., August 14, by Alaska Public Works, 123 W. 3rd St. (Box 1181), Juneau, for construction of a 12-classroom second floor addition to and alterations to specified areas in the existing Lathrop High School building in Fairbanks; Proj. Aaa 50-A-331. Specifications with above office. $25 deposit. SP 7-12

●COLLEGE GRADE SCHOOL— Fairbanks, Alaska

Bids will be opened 10 a. m., August 14, by Alaska Public Works, Box 1181, Juneau, for construction of the one-story, 20,000 sq. ft., pipe column with glued laminated beams and concrete masonry College Grade School building in Fairbanks; additive alternates included for extra classrooms. Plans with above office. $25 deposit. SP 7-12

●VISITOR CENTER, UTILITIES— McKinley Park, Alaska

Bids will be opened 2 p. m., August 6, by Superintendent, Mount McKinley National Park, McKinley Park, Alaska, for construction of a one-story partial basement 2,200 sq. ft. visitor center and utilities at Mount McKinley; Proj. No. McK-W128. Plans with National Park Service, 1000 Geary St., San Francisco, Calif. Bid bond 20%. Completion time 180 calendar days.

Work will include a small concrete generator house with diesel engine generator, a septic tank and disposal field, and about 1,300' water line. Quantities: 1,340' galvanized steel water pipe; 140' vitrified clay pipe; 120' corrugated metal arch pipe.

SP 7-16

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Wyoming, Utah, Alaska

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

OREGON

CURBING, GRADING— Amity, Ore.

Preparation is underway in Amity for a curbing and grading project, according to City Council, City Hall, Amity. Relocation of power and telephone lines on the streets designated for improvement has been completed. SC 7-13

▲DERRICK— Ashland, Ore.

American Hoist & Derrick Co., St. Paul, Minn., submitted the only bid, in the amount of $85,335 freight allowed, for one 50- ton stiffleg derrick complete with hoisting and slewing equipment and electrical controls for Green Springs Powerplant, Talent Division, Rogue River Basin Project, Ore.; DS-4920. Bids opened July 9 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo.
SP 7-16. Previous report 5-25

CANAL, DIVERSION DAM—Ashland, Ore.

Bids will be called soon by Bureau of Reclamation, Denver Federal Center, Denver, Colo., on construction of eight mi. of canal, three mi. of reinforced concrete rectangular flume section, and an earth and rockfill diversion dam and appurtenant structures, Howard Prairie Canal and Little Beaver Creek Diversion Dam, Rogue River Basin Project, Ore. Project is located near Ashland. Completion time 630 days.

Quantities: 914,000 c.y. canal excavation; 2,000 c.y. structure excavation; 2,000 c.y. backfill about structures; 15,000 c.y. compact embankments; 4,700 c.y. concrete in canal lining; 2,100 c.y. concrete in rectangular flume; 335 c.y. concrete in structures; 1,370' of 48" precast concrete, cylinder pipe or modified prestressed cylinder pipe. DM 7-17

DAM, TUNNELS, PRESSURE CONDUIT— Ashland, Ore.

Bids to be called soon by Bureau of Reclamation, Denver Federal Center, Denver, Colo., on constructing an earth dam and appurtenant structures, two 6' diameter tunnels and 60" diameter, 8" shell thickness, monolithic concrete, precast concrete pipe or steel pipe pressure conduit, Rogue River Basin Project, Keene Creek Earth Dam, Cascade Divide and Green Springs Tunnels and Green Springs Pressure Conduit. Project is located about 16 mi. southeast of Ashland. Completion time 600 days.

Quantities: 110,000 c.y. open cut excavation; 15,000 c.y. tunnel excavation; 127,000 c.y. excavation from borrow; 100,000 earthfill in dam; 55,000 c.y. rockfill in dam; 443,000 lb. steel tunnel supports; 2,800' rock bolts in tunnels; 25,000 c.y. concrete in structures; 5,400 c.y. concrete in tunnel lining; 4,000' pressure conduimt. DM 7-17

▲HIGH SCHOOL SITE WORK— Beaverton, Ore.

Bids received by School District No. 10-J, Multnomah-Washington counties, D. Herbert Armstrong, clerk, Beaverton Union High School, Beaverton, for grading 30-acre site for new high school near Murray and Cornell roads. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. LOW BIDS: F. & S. Construction Co., 1865 Highway Ave., Salem, $19,852; Goodat Crane Service, 1735 S.E. Union Ave., $26,446; M. L. O'Neil & Sons, 375 Horne Lane, Eugene, $30,268. Bids opened July 12.
WB 7-17. Previous report 6-22

●ELECTRIC POWER MODIFICATIONS— Burns AF Station, Ore.

Bid opening extended from July 19 to 2 p. m., July 23, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modification to electric power, supply facilities, including construction of four transformer substations, concrete encased duct banks and appurtenant work, at Burns Air Force Station; ENG-45-108-57-175.
SP 7-13. Previous report 7-11

REFRIGERATION EQUIPMENT— Clackamas, Ore.

Bids will be received about August 1 by Construction Department of Safeway Stores, Oakland, Calif., for refrigeration equipment in connection with the 542,000 sq. ft. Safeway distribution system center to be constructed just east of S.E. 82nd Ave., Portland, and south of town of Clackamas. Select list of bidders. Building plans are being completed by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 19th Ave., Portland, and bids will be called by Construction Department of Portland Retail Division of Safeway Stores, 1139 S.E. 3rd Ave., Portland.
WB 7-16. Previous report 2-12

★CLEARING— Cougar Reservoir, Ore.

Award to J. F. and E. L. Newton, 1731 N.E. 37th Ave., Portland, $11,100, by Corps of Engineers, Portland office, 628 Pittock Block, Portland, for clearing about 75 acres downstream from the proposed Cougar Reservoir Dam, approximately six mi. south of town of Blue River, Lane County; CIV-ENG-35-026-57-265.
WB 7-12. Preivous report 7-2

●GRADING, SURFACING, PAVING— Dallas, Ore.

Bids will be opened 11 a. m., July 23, by Polk County Commissioners, Courthouse, Dallas, for grading, surfacing and paving 1,630' of Rogers Lane, about three mi. north of Salem bridge, in Dallas. Specifications with county engineer at above address. Completion time October 1.

■STEEL GIRDER BRIDGE— Detroit Dam, Ore.

Planholders announced for construction of a steel girder bridge with concrete piers and deck across the North Santiam River at the Detroit Dam reservoir; CIVENG-35-026-57-286. Bids will be opened 2 p. m., July 23, by Corps of Engineers, Portland district, 628 Pittock Block, Portland.

Planholders: Babler Bros., 4617 S.E. Milwaukie Ave.; Valley Construction Co., 6100 N.E. Columbia Blvd.; Steel Construction Co. of Oregon, 5300 N.W. Front Ave.; C. J. Eldon, P. O. Box 5686; Don L. Cooney, Inc., 300 Spokane St., Seattle; Hampton C. Platt, Box 27, Salem; Gate City Steel, Inc., 4000 Warm Springs Ave., Boise; Owens Bros., Port Angeles, Wash.; Hamilton & Thoms, Box 726, Eugene; Colonial Construction Co., 615 W. Mansfield, Spokane; Hannan Bros. Co., 3525 N.E. Going St.; Wayne Construction Co., 3810 Stone Way Ave., Seattle; Louis Elterich, P.O. Box 868, Port Angeles; Moore Dry Dock Co., Foot of Adeline St., Oakland, Calif.; Concrete Construction Co., 1635 S.E. 11th Ave.; Erick Enquist, Box 747, Troutdale; Snook Bros., P. O. Box 687, Corvallis; West Coast Steel, 12005 N. Burgard; Central Paving Co., P. O. Box 38, Independence; C. E. Leseberg, Nyssa; Larson Construction, Box 120, Astoria; Tom Lillebo Construction Co., P. O. Box 365, Reedsport; A. H. Saxton & Son, 11531 S.E. Powell Court; Barnhardt-Reid, Box 548, Gates; Misco Westcoast, 1123 W. Hanford St., Seattle; O. C. Bennard, 222 N.E. Holland St.; B. F. & H. Construction Co., 1217 S.W. 19th Ave. Of Portland except as noted. WB 7-16. Previous report 7-5

★ROAD RELOCATION— Estacada, Ore.

Award to Vernie Jarl, Box 507, Gresham, $229,837, by Portland General Electric Co., Fred G. Hodge, purchasing agent, 410 Maegly-Tichner Bldg., Portland, for relocation of 1½ mi. section of Clackamas River Road about 5 mi. southeast of Estacada, in connection with North Fork Hydroelectric Project. WB 7-17. Previous report 6-28

PARK AND PLAYGROUND— Four Corners, Ore.

Plans announced by Salem School Board and Four Corners park and playground officials, Four Corners, for development of a community park and playground on 1½ acres of Four Corners school property. Work on the grounds is scheduled to start immediately. SC 7-13

WATER SCREENS— Grants Pass, Ore.

Bids rejected by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Grants Pass, two vertical traveling water screens suitable for installation in the screen structure, consisting of completely self-contained screening units, including for each screen a screen drive, detachable toothhead sprocket and screen guides, for Savage Rapids Dam rehabilitation, Grants Pass Project, Ore.; DC-4891.
SP 7-16. Previous report 5-28

●RESERVOIR— Grass Valley, Ore.

Bids will be opened 8 p. m., August 5, by Don E. Smith, city recorder, City Hall, Grass Valley, for construction of a 100,000-gallon reservoir and appurtenances at Grass Valley. Specifications with above office. Prequalification of bidders required. Bidders are to submit plans for the reservoir which may be of any type material. Among qualifications is the stipulation that the overflow must be 40' above the ground level. SC 7-12

▲SURFACING— Jefferson, Ore.

Bids received by City Council, City Hall, Salem, for surfacing 3rd St. from Hazel to Church and Hazel St. from 3rd St. east across the railroad tracks in Jefferson. LOW BIDS: Salem Black Top Paving Co., 1815 S. 22nd, Salem, $7.20 per ton; Western Paving & Construction Co., 115 E. 2nd, Albany, $7.35 per ton; Warren Northwest, Inc., 1742 Center, Salem, $7.75 per ton. SC 7-17

★PARKING IMPROVEMENTS— Klamath Falls, Ore.

Contract negotiated with Asphalt Paving Co., Chelsea Addition, Klamath Falls, by Crater Lake Machinery Co., 1410 S. 6th St., Klamath Falls, to blacktop existing customer and employee parking area and extending the area to accommodate 50 cars and trucks.
ZZ 7-17

★GRANDSTAND, FIELD LIGHTING— Lebanon, Ore.

Award by School District No. UH-1, Linn County, J. W. King, clerk, Superintendent's Office, Lebanon, for an open, 112'x31' steel, masonry and precast concrete grandstand. Plans by Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.E. 3rd Ave., Portland. AWARD: Hampton C. Platt, 3805 Thorndale Road, Salem, $24,200 (Basic, $32,200, less alternate). OTHER LOW BIDS: Al Lawson, 2520 S.W. Hamilton Court, Portland, $24,366, $32,866; Mac Charp, 9820 S.W. Eagle Lane, Beaverton, $27,672, $37,141. Bids received July 11. Bid opening on field lighting postponed until 8 p. m., July 26.
WB 7-16. Previous report 6-26

●FIELD LIGHTING— Lebanon, Ore.

Bid opening postponed from July 11 to 8 p. m., July 26, by School District No. UH-1, Linn County, J. W. King, clerk, Superintendent's Office, Lebanon, for field lighting. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland.

Bid opening for grandstand was held July 11 as scheduled.
WB 7-13. Previous report 6-26

▲HIGHWAY CONSTRUCTION—
Lookout Point Dam, Ore.

Bids received by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of relocated State Highway No. 58 at Lookout Point Reservoir, Middle Fork Willamette River, about one mi. south of Lookout Point Dam; CIVENG-35-026-57-281. Bids opened July 12. LOW BIDS: Harbert Bros., Route 1, Box 7, Estacada, $253,898; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland, $365,027; C. R. O'Neil, General Delivery, Myrtle Creek, $476,373. Engineer's estimate, $359,720.
WB 7-13. Previous report 7-3

▲TRANSMISSION LINE— McKinley, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Reston-Fairview 230-kv transmission line No. 1, McKinley-Fairview section, Coos County, about 0.2 mi. southeast of McKinley; Inv. No. 8484. BIDDERS: North Idaho Construction Co., Coeur d'Alene, Idaho, $47,692; George Smith, Bothell, Wash., $53,560; Sierra Electric Co., 6105 N.E. Mallory St., Portland, $55,917. Bids opened July 11. WB 7-13. Previous report 7-9

★STREET IMPROVEMENTS—
McMinnville, Ore.

Award to C. C. Meisel, Box 206, McMinnville, $24,282, by City Council, City Hall, McMinnville, for street improvements, including grading, rock base construction, concrete curbs and paving, at McMinnville.
SP 7-13. Previous report 6-29

● SEWER SYSTEMS— McMinnville, Ore.

Bids will be opened 5 p.m., July 23, by City Council, City Hall, McMinnville, for construction of a trunk sanitary sewer in the northeast part of the city, a lateral sewer system in Mochettaz sanitary sewer district and a lateral sewer system in the North Evans district No. 3. Specifications with William A. Zosel, city recorder, at above address. $25 deposit.

Quantities—TRUNK SEWER: 4,400' of 21", 1,660' of 15" concrete pipe; 15 manholes; 200 c.y. rock fill; one railroad; one highway crossing. MOCHETTAZ SEWER: 695' of 10", 3,150' of 8", 520' of 6" concrete pipe; 15 manholes; one highway crossing. NORTH EVANS SEWER: 1,885' of 10", 430' of 8", 735' of 6" concrete pipe; 5 manholes; four clean-outs.
SC 7-17

STORM SEWER SYSTEM— Medford, Ore.
(Estimated cost $95,000, entire project)

The first segment in Medford's six-year storm sewer program has been authorized by City Council, City Hall, Medford. The first segment planned is from Lincoln St. to Bear Creek on 10th St. The council approved an agreement with Southern Pacific Railroad for an easement to construct and operate a 42" storm sewer under the 10th St. crossing.
SC 7-13

▲SEWER, WATER LINE—Milwaukie, Ore.

Bids received by city recorder, R. E. Osborne, Milwaukie, for construction of 2,585' of 21" and 18" concrete sewer line and 750' of 12" cast iron water line to serve the Industrial Park area. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. LOW BIDS: John Luyben & Sons, Inc., 14005 N.E. Halsey St., Portland, $32,029; Don Thornton, 2809 W. 21st St., Vancouver, $33,321; George W. Lind, 5000 N.E. Killingsworth St., Portland, $35,562. Bids opened July 8.
WB 7-12. Previous report 6-22

● FUSE MOUNTINGS, FUSES—
Portland, Ore.

Bids will be opened 2 p.m., July 24, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for fuse mountings, fuses and fittings to be furnished and delivered fob Mead, Wash. (Group 1) and fob Goshen, Ore.; Pasco, Wash., and Wenatchee, Wash. (Group 2); Inv. No. 8487 Specifications with above office.
SP 7-16

★SWITCHGEAR— Portland, Ore.

Award to Westinghouse Electric Co., U. S. National Bank Bldg., Portland, $34,140, by city purchasing agent, 208 City Hall, Portland, for one set of 11 kv switchgear at Ankeny pumping station for Bureau of Sewage & Refuge Disposal.
WB 7-12. Previous report 5-31

● STATE HIGHWAY PROJECT—
Portland, Ore.

Bids will be opened 9 a.m., August 8, by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland, for a highway construction project. Specifications with the highway commission in Salem. $2 deposit.

CONCRETE BRIDGES—PACIFIC HIGHWAY: Construction of 16 reinforced concrete deck girder bridges, North Jefferson Junction-Santiam Junction Section of the Pacific Highway, Marion-Linn counties, Federal Aid Interstate Project. Alternate bids will be received for construction of the structures by the pretensioned - precast method of construction and by the conventional poured-in-place method.

Quantities: 900 c.y. structure excavation; 11,000' concrete piling; 500 concrete piles; 450' of 8" metal drain pipe; 7,000 c.y. general excavation. For the pretensioned alternate, the following: 4,240 c.y. concrete; 663,000 lb. metal reinforcements; 103,000 lb. prestressed reinforcements. For poured - in-place alternate, the following: 4,240 c.y. concrete; 1,156,000 lb. metal reinforcement.
SP 7-12

● LANDSCAPING— Portland, Ore.
(Estimated cost, $15,500)

Bids close 2:30 p.m. and will be opened 3:30 p.m., August 7, by Portland School District No. 1, 620 N.E. Halsey St., Portalnd, for landscaping at James Madison High School. Plans with business office. $25 deposit.
WB 7-12. Previous report 1-15

★SEWAGE CHLORINATOR—Portland, Ore.

Award to Wallace & Tiernan, Seattle, $1,124, by Port of Portland, Swan Island, Portland, for furnishing, installing and placing in operation a chlorine feeder, chlorine scale and auxiliary equipment for the Portland International Airport sewage treatment plant.
WB 7-13. Previous report 7-2

★SEWER— Portland, Ore.

Award to Samuel K. Azar, 5306 S.E. 99th Ave., Portland, $12,966, by City Auditor, Will Gibson, City Hall, Portland, for construction of N. Druid Ave. and Houghton St. sewer system.
WB 7-13. Previous report 7-2

★WHEEL TRACTOR— Portland, Ore.

Award to Cramer Machinery Co., 1005 S.E. Stark St., Portland, $3,995, by city purchasing agent, 208 City Hall, Portland, for furnishing one gasoline driven wheel tractor with hydraulic loader and attachments.
WB 7-13. Previous report 6-18

● GATES, FITTINGS— Portland, Ore.

Bids will be opened 2 p.m., July 25, by city purchasing agent, 208 City Hall, Portland, for furnishing and installing two gates and fittings at north entrance road to the parking area of the Portland Zoological Garden in Hoyt Park. Certified check or bid bond 10%.
WB 7-13

■ CLEARING, ACCESS ROADS—
Portland, Ore.

Planholders announced for clearing the right-of-way and construction of access roads for Sched. 2 of the Santiam-Alvey section of the McNary-Alvey 287 kv transmission line No. 1, Linn and Lane Counties, Ore.; Inv. No. 8489, 8480. Bids will be opened 2:30 p.m., July 23, by Bonneville.

Planholders: G. L. Pierce, Route 2, Box 174-D, Battleground, Wash.; Lyle King, Route 1, Box 1683, Sweet Home; Cresto and Lamphere, Box 251, Easton, Wash.; Linnlane Construction Co., Box 1255, Sweet Home; Murray Bros., Box 191, Bend; John M. King Co., 1501 Taylor Way, Tacoma; C. & S. Logging Co., Route 4, Mt. Vernon, Wash.; H. & M. Construction Co., 4200 E. Jewell Ave., Denver; Mike P. Porter, 885 Fairview Ave., Salem; Henry H. Miller, Contractors, Inc., 2191 N.E. Stephens, Roseburg.
WB 7-13. Previous report 7-10

★STOCKPILING— Portland, Ore.

Award to Umpqua River Navigation Co., Reedsport, $40,660 (Schedule A) by Bureau of Public Roads, Baird M. French, regional engineer, 753 Morgan Bldg., Portland, for stockpiling 14,435 c.y. crushed rock for spur roads to Esmond Creek Road and West Fork Smith River Road, Oregon Timber Access Road Project BLM 239 and 670, Bureau of Land Management-Eugene and Coos Bay Districts, Lane and Douglas counties. Award on Schedule B was announced in PCD on 7-11.
WB 7-17. Previous report 7-11

★BITUMINOUS SURFACING—
Portland, Ore.

Award to Morse Bros., P.O. Box 117, Harrisburg, $28,150, by Bureau of Public Roads, Baird M. French, regional engineer, 753 Morgan Bldg., Portland, for constructing 11.422 mi. bituminous surfacing treatment, Oregon Timber Access Road Project BLM 68-A4, Smith River Road, Bureau of Land Management - Coos Bay District, Douglas County, Ore. WB 7-17. Previous report 7-11

★STATE HIGHWAY PROJECT—
Portland, Ore.

Award to Sig Anderson, 1371 Bayview Ave., North Bend, Ore., $23,377, by Oregon State Highway Commission, Salem, for grading and oiling 0.13 mi. near north end of McCullough Bridge over Coos Bay, Glasgow Road, Coos County; a State Project. Bids opened June 27 in Portland.
SP 7-17. Previous report 6-29

PARKING LOT— Portland, Ore.

Multnomah County Commissioners, John W. West, purchasing agent, will construct a 15,600 sq. ft. parking lot at an estimated cost of $3,000, at the east end of the new Morrison Street Bridge for lease to James Fantz, 7130 S.W. 37th Ave., Portland. Instead of building parking lots on remaining areas the county will landscape two sections totaling 28,000 sq. ft., and hold a 5,000 sq. ft. area.
WB 7-17. Previous report 6-18

■ BERTH REHABILTATION—
Portland, Ore.

Planholders announced for rehabilitation of the substructure and deck of the slip berth, Pier No. 5, Terminal No. 4, Portland. Bids will be opened 10 a.m., July 26, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland. Plans with commission office.

Planholders: C. M. Corkum Co., 2630 S.W. 2nd Ave.; Teeples & Thatcher, 8850 S.E. Otty St.; Willamette Tug & Barge Co., Foot of N. Portsmouth St.; Lorentz Bruun, 3636 S.E. 20th Ave.; General Construction Co., 4850 N.W. Front Ave.; James & Yost, Inc., P.O. Box 1025; Richland L. Martin Co., P.O. Box 482, Oswego; Manson Construction Co., Seattle (30 S.E. Alder St., Portland); Palmberg Construction Co., P.O. Box 991, Astoria. Of Portland except as noted.
WB 7-17. Previous report 7-10

★TRANSMISSION LINE— Reedsport, Ore.

Award to Witzig Electric Co., 223 S. 4th St., Corvallis, $19,386, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 115 kv OCB tie line at Reedsport Substation, Douglas County; Inv. No. 8420. WB 7-12. Previous report 6-25

● TERMINAL ADDITIONS—Redmond, Ore.

Bids will be opened 2 p.m., July 23, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Round Butte terminal additions at the Redmond substation, about one mi. west of Redmond, Deschutes County, Ore.; Inv. No. 8481. Specifications with above office. Bid bond 25%.

Quantities: 200 c.y. structural excavation; 75 c.y. reinforced concrete footings; 27,500 lb. steel erection; installation of station equipment; 465 sq. ft. concrete sidewalks; 135 c.y. crushed rock.
SP 7-15

★**PAVING—** **Salem, Ore.**

Award to Central Paving Co., Independence, $8,168 (Mahart), $12,227 (Durbin), by Marion County Court, Courthouse, Salem, for two paving projects in the suburban area of Salem, involving 2,300' asphalt concrete paving on 20' wide Durbin Ave. and 900' paving and concrete curbing on both sides of 34' wide Mahart Ave. Bids opened June 28. CP 7-13. Previous report 6-21

SEWER PROJECT— **Salem, Ore.**

The City Council, City Hall, Salem, is submitting application for federal grants to finance major sewer construction, including $100,000 trunk line, to serve west slope of Candalaria and Laurel Springs Addition in Salem. Work will include gravity lines, 50' lift station and possibly the enlargement of existing sewage disposal plant in north Salem. CP 7-13

ROAD RESURFACING— **Salem, Ore.**

Marion County Engineer John Anderson, Courthouse, Salem, has asked the court to set a date for opening bids on surfacing five suburban roads in the Salem area. Roads being considered for resurfacing include Lancaster Drive, Fisher Road and Hulsey, Cherry and Browning avenues. SC 7-13

●**ASPHALTIC CONCRETE PAVEMENT—** **Salem, Ore.**

Bids will be opened 10:15 a. m., July 24, by Marion County Court, Courthouse, Salem, for asphaltic concrete paving in Salem. Specifications with county engineer at above address. Certified check, cashier's check or bid bond 10%. SC 7-17

★**WELDER AND TRAILER—** **Seufert, Ore.**

Award to Davis Industrial Products Co., 338 N.W. 6th Ave., Portland, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for gasoline engine driven D.C. welder with trailer, welding cable and other items, fob The Dalles Dam, Seufert, Ore.; CIVENG-35-026-57-280. Bids opened July 1. WB 7-13. Previous report 6-22

STREET IMPROVEMENTS— **Sheridan, Ore.**
(Estimated cost $70,000)

Work to start soon under the supervision of O. C. Yocom of McMinnville, consultant for Sheridan, on paving and street reconstruction at Sheridan, according to Council Winer Melonuk, street commissioner. Work is being financed by a $70,000 bond issue approved in 1956. SC 7-10

●**STORM SEWER—** **Springfield, Ore.**

Bids will be opened 7:30 p. m., July 22, by William E. Mansell, city recorder, City Hall, Springfield, for installation of a storm sewer in 8th St. extending from O St. to an open ditch south of Q St. in Springfield. Specifications with city engineer at above address. $5 deposit. Prequalification of bidders required.

Quantities: 525' of 12", 35' of 8" tongue and groove concrete pipe; one manhole; 30 c.y. bedding gravel; 200 c.y. barrun backfill. SC 7-17

●**TERMINAL ADDITION—Tillamook, Ore.**

Bids will be opened 2 p. m., July 26, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Tillamook substation 115-kv Beaver Line terminal addition, at the junction of the Wilson River Highway (Oregon State Highway No. 6) and Evergreen Drive, which is about one mi. east of U. S. Highway 101 in Tillamook, Tillamook County, Ore.; Inv. No. 8486. Specifications with above office. Bid bond 25%.

Quantities: 120 c.y. structural excavation; 32 c.y. reinforced concrete footings; 11,700 lb. steel erection; installation of station equipment; 174 sq. ft. concrete sidewalks; 120 c.y. crushed rock. SP 7-13

★**STREET OILING—** **West, Linn, Ore.**

Award by city recorder, Andy Harila, City Hall, West Linn, for approximately 22,000 sq. yd. of asphaltic surfacing on various streets. AWARDS: Parker-Fuhrman Co., 11524 S.E. Foster Road, Portland, $45 per ton asphalt in place; $2.50 c.y. rock in place. OTHER BIDS: Portland Road & Driveway Co., 7295 S.E. King Road, Portland, $45, $2.60; Owen F. Snyder, Route 3, Tigard, $55, $3.00. Bids opened July 10.
WB 7-13. Previous report 6-25

●**STEAM LINE—** **Woodburn, Ore.**

Bids will be opened 2 p. m., July 31, by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., for construction of new steam line from boiler house to new building at MacLaren School for Boys near Woodburn. Plans with Whitnew, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland. $25 deposit. Certified check or bid bond 10%. WB 7-17

WASHINGTON

▲**CHLORINATOR—** **Anacortes, Wash.**

Wallace & Tiernan, Inc., 2916 Western Ave., Seattle, was low bidder with $6,645 for the chlorinator at the new filter plant in Anacortes, according to City Council, City Hall, Anacortes. ET 7-9

●**WATERMAIN—** **Bellevue, Wash.**

Bids will be opened 11 a. m., July 22, by King County Water District No. 95, Charles T. Mallery, secretary, south of Bellevue, for furnishing and installing 15,500' of water pipe; ULID No. 1. Specifications with Gardner & Hitchings, consulting engineers, 613 Arctic Bldg., 3rd and Cherry, Seattle. $20 deposit.

Quantities: 15,500' of 6" cast iron (or steel, Alt. A) water pipe; 16,000' trenching; 1,000 c.y. excavation; 100 culvert pipe lengths relay; 100 meter services; 27 hydrants; 2 pressure release valves; 27 hydrant assemblies; 17 valve assemblies. PD 7-13

▲**WATERMAIN EXTENSION—** **Bellevue, Wash.**

Bids received by King County Water District No. 68, Richard Montgomery, secretary, S.E. 7th St. and 96th Ave. S.E., Bellevue, for furnishing and installing 5,875' of 4" to 6" class 150 asbestos-cement pipe watermain on N.E. 8th and on Bellevue-Redmond Highway. Bids opened July 15. Plans by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle. LOW BIDS: Shoreline Construction, 12519 15th Ave. N.E., Seattle, $19,757; Frank Coluccio, 7778 Seward Park Ave., Seattle, $19,825; Lario Libri, 5960 Empire Way, Seattle, $21,974.
PD 7-17. Previous report 7-11

FLOOD CONTROL— **Bellingham, Wash.**

Whatcom County Commissioners, Courthouse, Bellingham, have submitted three applications to the State Department of Conservation and Development for matching funds for flood control in the county. Project 57-7 calls for facing with rock riprap the Nooksack River bank at the north end of the Guide-Meridian bridge on the east side; Proj. No. 57-6 calls for work on the south side of the Nooksack River, upstream from Everson, to protect a drainage district, State Highway and farm lands; Proj. No. 57-8 has been completed and involved rock riprap work on the north side of the river, two mi. east of Lynden. ET 7-16

AIRPORT DEVELOPMENT— **Bellingham, Wash.**

Gilbert H. Mandeville, consulting engineer, Securities Bldg., Seattle, has been retained by Port of Bellingham Commissioners, Dock Waterway, Bellingham, to make a comprehensive survey for future development at the Bellingham Airport. The preliminary survey indicates possibility of developing a shopping center at the south end of the airport, possible recreational or commercial use of property abutting Highway 99, and possible industrial park in the western area. The complete survey will require about 45 days. ET 7-16

●**GATE VALVES—** **Bellingham, Wash.**

Bids will be opened 10 a. m., July 22, by Alfred B. Loop, city comptroller, City Hall, Bellingham, for 14 flanged gate valves ranging from 16" to 36", two 12" mechanical joint valves and two cast iron valve boxes. Specifications with John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland. SC 7-12

★**WATER MAINS—** **Bellingham, Wash.**

Award to C. V. Wilder Constructino Co., 1840 State St., Bellingham, $53,640, by Bellingham Water Commissioners, City Hall, Bellingham, for placing 25", 20" and 16" water pipe at three freeway crossings on Illinois St., James St. and Meridian St. in Bellingham. Plans by John W. Cunningham & Associates, consulting entgineers, 1112 Portland Trust Bldg., Portland.
ET 7-13. Previous report 7-10

SEWER PROJECT— **Bellingham, Wash.**
(Estimated cost $500,000)

A water-users' levy has been voted by the City Council, City Hall, Bellingham, to finance a sewer improvement project. SC 7-13

★**SEWER ADDITION, EXTENSION—** **Burlington, Wash.**

Award to Robert Wade, 1340 E. Rio Vista, Burlington, $27,865 (6" to 8" clay, 12" to 15" concrete pipe), by City Council, City Hall, Burlington, for construction of an extension to the existing sewer system, Knutzen Addition in Burlington. Plans and specifications by Kilkey and Sisler, engineers, Journal Bldg., Kirkland.
PD 7-16. Previous report 7-9

▲**ROCK SLOPE PROTECTION—** **Chief Joseph Dam, Wash.**

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for removal and disposal of loose rock and placing 20,000 sq. ft. chain link fence on rock slope at east end of powerhouse, Chief Joseph Dam, Bridgeport, Wash.; CIVENG-45-108-57-75. Bids opened July 16.

LOW BIDS: Farwest Fence Co., Seattle, $9,400; Carl Hohner, 5801 E. 3rd, Spokane, $9,800; Don L. Cooney, Inc., 300 Spokane St., Seattle, $15,600. Government estimate, $16,810. SP 7-17. Previous report 7-11

●**STORM SEWER—** **Clarkston, Wash.**

Bids will be opened August 12 by City Council, City Hall, Clarkston, for a storm sewer from 6th to 8th St. on Chestnut St. Specifications with Eugene Asselstine, city engineer, at above address. The city sewer will tie in with the one to be constructed by the state (highway bid opening July 16). SC 7-12

★**ACCESS ROAD—** **Deep Creek AF Station, Wash.**

Award to Carbon Bros., N. 3430 Cook St., Spokane, $41,930, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 1,400' long access road, involving 2,900 sq. yd. 2" asphaltic concrete for 18" width and 328' of 15" culvert, at Deep Creek Air Force Station; ENG-45-108-57-139. SP 7-16. Previous report 6-20

★**GRADING, PAVING—** **Everett, Wash.**

Award announced by Snohomish County Commissioners, Courthouse, Everett, for grading and paving of automobile parking areas and roads at the Snohomish County Airport, Paine Field, Everett. Bids opened July 8. AWARD: Associated Sand & Gravel, 6300 Glenwood Ave., Everett, $18,604. 2ND LOW: Olympic Paving Co., 417 E. 81st, Seattle, $20,506. 3RD LOW: Lake City Gravel & Materials Co., 10728 Bothell Way, Seattle, $20,880. HH 7-12. Previous report 6-25

★**RESURFACING—** **Everett, Wash.**

Award to Associated Sand & Gravel, 6300 Glenwood Ave., Everett, $13,125 (street), $2,771, (alley), by City Council, City Hall, Everett, for resurfacing Colby Ave., 10th St. and alleys in Block 683 between Colby and Wetmore avenues with bituminous pavement. HH 7-13. Previous report 7-3

★**GRADING—** **Everett, Wash.**

Award announced by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for grading the site

of the new junior high school in Everett. Bids opened July 15. AWARD: Thomas L. Scalzo, 3211 Airport Way, Seattle, $23,449. 2ND LOW: All City Excavating Co., 8114 9th S.W., Seattle, $29,600. 3RD LOW: S & W Construction Co., 606 S. 140th, Seattle, $29,750. HH 7-17. Previous report 7-2

★FIRE HOSE— Everett, Wash.

Award to Munnell & Sheril, 1163 N.E. 63rd, Portland, $1.48 per foot, by John L. Sugars, city clerk, City Hall, Everett, for furnishing the fire department with 950' of 2½" Dacron fire hose. Bids opened July 10. HH 7-17. Previous report 6-25

▲HEAT MAIN REPLACEMENT— Fairchild AFB, Wash.

Bids received by U. S. Air Force, Fairchild AFB, for replacement of steam heat mains at the base; Inv. No. 57-122. Bids opened July 10. LOW BIDS: Russ Owens Plumbing & Heating, 1020 N. Washington, Spokane, $94,709; James Smyth Plumbing & Heating, 216 N. Division, Spokane, $96,750; Arnold & Jeffers, N. 1309 Ash, Spokane, $101,707. LL 7-12

▲SWITCH STATION— Goldendale, Wash.

Bids received by Klickitat County PUD, Goldendale, for supplying design and materials for a 12.5-kv switch station in Klickitat County. Bids opened July 8. LOW BIDS: Line Materials Co., Milwaukee, Wis., $14,000; Midway Electric, St. Helens, $17,439; Schwager-Wood Corp., 8024 S.W. 35th, Portland, $21,000. SC 7-12

● TRANSMISSION LINE— Grant County, Wash.

Bids will be opened 2 p.m., August 1, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the North Ephrata 115-kv tap to the Soap Lake 115-kv tap, Grant County, Wash.; Inv. No. 8489. Specifications with above office. $25 deposit. Bid bond 25%. Work will include 74' culvert and electrical equipment installation. SP 7-16

● ICE-PREVENTIVE HEATING SYSTEM— Kennewick, Wash.

Bids will be opened 10 a.m., August 27, by Bureau of Reclamation, Box 516, Kennewick, for ice-preventive heating system at Chandler Canal Headworks, near Prosser, Benton County, Wash.; Spec. No. DC-4940. Specifications with above office. Bid bond 10%. SP 7-12

RAILROAD CROSSING REPAIRS— Kennewick, Wash.

(Estimated cost $30,000)

Work will start about July 15 for improvements to Northern Pacific Railway crossings at Fruitland, Washington and Benton streets in Kennewick, according to City Engineer Mar Winegar. SC 7-5

● FENCING— Kennewick, Wash.

Bids will be opened 10 a.m., August 6, by Bureau of Reclamation, Kennewick, for construction of 26 mi. of wildlife protective fencing along Kennewick division main canal and the Badger east lateral; Spec. No. 100C-308. Specifications with above office. The work extends from 3 to 20 mi. south and west of Kennewick. SC 7-17

● TURBINE PUMP— Mabton, Wash.

Bids opening extended from July 11 to 8 p.m., July 25, by Cornelia A. McBridge, town clerk, Town Hall, Mabton, for furnishing and installing a new 375- to 400-gal.-per-minute capacity deep well turbine pump and right angle gear drive for Well No. 3; for purchase of a now surplus deep well pump equipped with electric motor and separate and spare electric motor. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. IG 7-16. Pevious report 7-19

● SEWER PIPE— McCleary, Wash.

Bids will be opened 8 p.m., July 23, by City Clerk, City Hall, McCleary, for supplying 704' of 60" bituminous corrugated metal pipe and couplings and fittings for use in storm sewer construction at McCleary. Specifications with above office. $5 deposit. SC 7-13

● SUSPENSION INSULATORS— Mead, Pasco, Wash.

Bid opening extended from July 16 to 2 p.m., July 30, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 3,702 suspension insulators fob Mead, and 2,808 suspension insulators fob Pasco; Inv. No. 8488. SP 7-17. Previous report 7-13

● FIELD LIGHTS— Mercer Island, Wash.

Bids to be opened 4 p.m., July 25, by Mercer Island School District No. 400, King County, in the office of superintendent, Mercer Crest School, 4136 86th S.E., Mercer Island, for installation of athletic field lights. Plans with above office. DC 7-17

★ROAD SURFACING— Moclips, Taholah, Wash.

Award to Lake City Gravel & Materials, Inc., 10728 Bothell Way, Seattle, $64,073, by Bureau of Indian Affairs, Branch of Roads, 1001 N.E. Lloyd Blvd., Portland, for manufacture and placement of crushed gravel surfacing and application of a bituminous preservative treatment on 8.002 mi. of highway from Moclips to Taholah, Wash., Quinault Indian Reservation. SC 7-17. Previous report 7-11

● CASCADE CREST TRAIL— Okanogan, Wash.

Bids will be opened 3 p.m., July 31, in the office of the Regional Supply Officer, 729 N.E. Oregon St., room 18 (Box 4137), Portland, for construction of three miles of the Cascade Crest Trail, between Windy Pass and Jim Pass, Okanogan County, Okanogan National Forest, Wash.; Bid No. 15. Plans with above office and with Supervisor, Okanogan National Forest, Post Office Bldg., Okanogan. Arrangements may be made for an inspection of the site prior to submission of bid by calling District Ranger, D. E. Garvik, Early Winters Ranger Station, Mazama, Wash., prior to July 22, the date on which trip is planned.

Quantities: 1,000' rock slide; 4,814' clearing; 15,900' grading. SP 7-16

● STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids will be opened 10 a.m., July 30, by Washington State Highway Commission, W. A. Bugge, highway director, Olympia, for highway construction. Specifications with above office. $2 deposit. Certified check or cashier's check 5%.

DRAINING, GRADING, SURFACING — PORTLAND AVENUE: Draining, grading, surfacing and paving with type I-1 asphaltic concrete on 1.718 mi. Pierce County road; FAS No. S-1313(1).

Quantities: 11,128' cleaning and preparing ditches; 14,754' concrete pipe; 6,460 c.y. selected roadway borrow; 2,150 c.y. crushed stone surfacing and crushed cover stone; 30 ton asphalt cement; 3,890 ton asphaltic concrete; 15,810' asphaltic concrete gutter.

BITUMINOUS ROAD MIX — MARVIN ROAD, FIR TREE CHAMBERS ROAD: Constructing bituminous treatment road mix on 7.437 mi. Thurston County roads; FAS Nos. S-0510(2) and S-0492(1).

Quantities: 425 ton asphalt cement; 6,250 c.y. mineral aggregate.

BITUMINOUS SURFACING, SEAL—SUNNY SANDS WEST: Surfacing and contracting light bituminous surface treatment and non-skid seal treatment on 1.210 mi. of Wahkiakum County road; FAS No. S-0579(3).

Quantities: 2,250 c.y. solid rock borrow; 2,000 c.y. sand borrow; 2,565 c.y. crushed stone surfacing, crushed cover stone and mineral aggregate; 58 ton asphalt cement.

SURFACING, STOCKPILING — BLYN EAST, ET AL: Surfacing, constructing bituminous surface treatment plantmix and stockpiling crushed stone surfacing and mineral aggregates on 6.180 mi. PSH No. 9 in Clallam and Jefferson counties; a State Project.

Quantities: 7,855 ton screened gravel surfacing; 31 ton asphalt cement; 13,825 ton bituminous plantmix; 53,000 ton crushed stone surfacing, mineral aggregate and reject material.

DRAINING, SURFACING, PAVING—COSMOPOLIS, ABERDEEN: Draining, surfacing, constructing cement treated base and paving with type I-1 asphaltic concrete on 3.292 mi. of State Highways Nos. 13, 13-A and 9 in Grays Harbor County, J St. in Cosmopolis to Curtis St. in Aberdeen, et al, a State Project.

Quantities: 5,965 c.y. common excavation; 7,490 ton selected roadway borrow; 6,230 ton crushed stone surfacing, gravel surfacing and ballast; 73 ton asphalt cement; 420 c.y. crushed cover stone and mineral aggregate; 10,625 ton asphaltic concrete; 1,285 ton CTB aggregate; 410 bbl. portland cement; 300' asphalt shoulder curb.

SURFACING,PAVING—PONDERS-LAKEVIEW, PUYALLUP RIVER-ARDENA ROAD: Surfacing with light bituminous surface treatment and paving with type I-1 asphaltic concrete on 4.365 mi. PSH No. 1 in Pierce County; a State Project.

Quantities: 2,940 c.y. crushed stone surfacing and crushed cover stone; 121 ton asphalt cement; 14,400 ton asphaltic concrete; 300' precast traffic curb.

CRANBERRY CREEK AND DEER CREEK BRIDGES—Constructing two reinforced concrete flat slab bridges on 0.046 mi. of SSR No. 14-A in Mason County; a State Project.

Quantities: 2,270 c.y. excavation; 1,300 c.y. roadway borrow; 360 c.y. crushed stone surfacing; 180 c.y. loose riprap; 84 c.y. concrete, 18,600 lb. steel reinforcing bars, lump sum bid for superstructures (about 224 c.y. concrete, 47,400 lb. steel reinforcing bars, 290' reinforced concrete bridge railing); 2,040' treated timber piling.

GRADING, SURFACING, BRIDGE—RAINY CREEK BRIDGE APPROACHES: Clearing, draining, grading, surfacing with light bituminous surface treatment and constructing a reinforced concrete slab bridge on 0.232 mi. PSH No. 5 in Lewis County; a State Project.

Quantities: 10,170 c.y. common excavation; 2,400 c.y. roadway borrow; 1,260 c.y. crushed stone surfacing and crushed cover stone; 8 ton asphalt cement; 117' concrete pipe; 187 c.y. concrete; 34,240 lb. steel reinforcing bars.

BOX CULVERT, BRIDGE REPAIR—CITY OF CHEWELAH: Constructing a reinforced cocnrete box culvert and repairing reinforced concrete bridge columns on PSH No. 3 in Stevens County; a State Project.

Quantities: 565 c.y. structure excavation; 100 c.y. crushed stone surfacing; 40 ton bituminous mix; 100' cement concrete curb; 35' steel pipe; 50 sq. ft. cement concrete sidewalk; 100 c.y. loose riprap; 165 c.y. concrete; 38,500 lb. steel reinforcing bars.

STOCKPILING—BLACK DIAMOND VIVINITY, ET AL: Stockpiling maintenance rock, sand and mineral aggregates on PSH No. 5, Pierce and King counties; a State Project.

Quantities: 34,300 ton crushed materials.

ILLUMINATION SYSTEM—RIMROCK TUNNEL: Installing illumination system on PSH No. 5 in Yakima County; a State Project.

ILLUMINATION SYSTEMS — RICHLAND WYE, ET AL: Installing four illumination systems on PSH No. 3 in Benton and Franklin counties; a State Project.

OFFICE BUILDING ADDITION — TUMWATER: Constructing a reinforced concrete addition to the district office building in Thurston County; a State Project. SP 7-12

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids opened July 16.

PAVING—POWER LINE TO MOSES LAKE UNIT 1—Draining, grading, surfacing, constructing cement treated base, asphaltic concrete paving 8.832 mi. PSH No. 18, Grant County; FAP No. I-002-4(4) Unit 1.

LOW BIDS: Cherf Bros. & Sandkay, Inc., Box 938, Ephrata, $811,222; Materne Bros., Box 7052, Spokane, $832,513; James Crick & Sons, Box 4228, Station B, Spokane, $843,733.

GRADING—BURNT BRIDGE CREEK TO STOCKFORD ROAD—Clearing, draining, grading 2.016 mi. PSH No. 1, Clark County; FAP No. I-001-1(31) Unit 1.

Natt McDougall Co., 824 Pit-rtland, $279,563; Herman Kath-55, Kenmore, $297,748; K. L. on, 3419 16th Ave. W., Seattle.

RIDGE—SSH No. 11-G UNDER-AND APPROACHES—Draining, rfacing constructing cement e, asphaltic concrete paving, concrete box girder bridge on SH No. 18, Grant County; FAP 5) Unit 2.
S: Cherf Bros. & Sandkay, Inc., 09,993; Sather & Sons, 1410 N. lley, $519,763; F. R. Hewett Co., dwin, Spokane, $524,900.

— BRIDGEPORT WAY UNDER-—Reinforced concrete box girder PSH No. 1, Pierce County; FAP 3(19) Unit 1.
IDS: Concrete Construction Co., er St., Tacoma, $190,299; John E. r Co., Box 7006, Seattle, $198,522; Builders, 5220 S. Orchard St., Ta-12,744.

ES—CENTRAL AVE. AND Y RAMP CROSSINGS IN MOSES LAKE—ed concrete slab bridge and rein-concrete girder bridge on PSH No. t County; FAP No. I-002-4(5) Unit 3.
BIDS: Snook Bros., Box 687, Cor-Dre., $124,366; O. M. Chaplin, 328 S. pokane, $125,082; Cherf Bros. & Sand-ic., Ephrata, $125,912.

ING—HIGHLAND STREET TO DIAG-STREET IN CLARKSTON AND N CREEK BRIDGE APPROACHES—ng, grading, surfacing asphaltic con-paving on 1.359 mi. PSH No. 3, Asotin y; FAP Nos. F-042-1(2) and F-042-1(4).
W BIDS: United Paving Co., Route 4, 50, Spokane, $212,317; Inlet Asphalt Co., 1116, Station B, Spokane, $233,495; Mor-& Co., Box 597, Walla Walla, $234,426.

VING — CITY WATERWAY BRIDGE 1-V/106 APPROACH RAMPS—Draining, ing, surfacing asphaltic concrete paving SSH No. 1-V, Pierce County; FAU No. 0236(1) Unit 2.
roject withdrawn.

RIDGE — WILLOW GROVE ROAD IDGE — Reinforced concrete flat slab dge on 0.012 mi. Cowlitz County road; S No. S-1336(1).
OW BIDS: Lockyear & White, Box 687, ngview, $12,515; Roger E. Holmes, Route Box 493, Olympia, $14,712; Snook Bros., rvallis, $15,167.

PLANTMIX SURFACING—PORT GAM-LE TO KINGSTON—Plantmix bituminous rfacing on 7.40 mi. PSH No. 21, Kitsap ounty; a State Project.
LOW BIDS: United Paving Co., Spokane, 110,327; Asphalt Paving & Engineering Co., Box 356, Tacoma, $112,241; Hardisty Con-truction Co., 219 Medical Arts Bldg., Van-ouver, $119,662.

ROADMIX—SUMMIT EAST—Roadmix bi-tuminous paving on 1.326 mi. PSH No. 1, Chelan County; a State Project.
LOW BIDS: S & S Surfacing Co., 8328 15th Ave. N.W., Seattle, $59,787; Graves & Burke and Anson & Co., Box 119, Wen-atchee, $59,806; Doolittle Construction Co., 510 Adams, Seattle, $64,272.

PAVING—NATIONAL AVENUE TO SAL-ZER CREEK—Draining, grading, surfacing asphaltic concrete paving on 1.020 mi. PSH No. 1, Lewis County; a State Project.
LOW BID: Pacific Sand & Gravel Co., Box 628, Centralia, $68,280. ONLY OTHER BID: Hardisty Construction Co., Vancouver, $76,290.

BITUMINOUS SURFACING—KEYSTONE CONNECTION — Light bituminous surface treatment, non-skid seal treatment on 3.6 mi. SSH No. 1-D, Island County; a State Project.
LOW BIDS: Associated Sand & Gravel Co., 6300 Glenwood Ave., Everett, $24,986; Wilder Construction Co., 1840 State St., Bellingham, $25,804; S & S Surfacing Co., Seattle, $26,605.

SEAL TREATMENT—GLACIER TO EXCELSIOR—Non-skid seal treatment on 7 mi. PSH No. 1, Whatcom County; a State Project.
LOW BIDS: S & S Surfacing Co., Seattle, $20,770; Doolittle Construction Co., Seattle, $22,200; Associated Sand & Gravel Co., Everett, $22,665.

DRAINAGE—WARM SPRINGS VICINITY—Drainage on 0.284 mi. PSH No. 2, Chelan County; a State Project.
LOW BIDS: Tom T. Larson, Box 552, Wenatchee, $25,204; John B Knowles, 1040 Monroe, Wenatchee, $25,848; Russell B. Gillette, Box G, Cle Elum, $30,902.

DRAINAGE—DOTY VICINITY—Drainage on PSH No. 12, Lewis County, a State Project.
LOW BIDS: Beuter & O'Neil, 2301 Sniveley Ave., Chehalis, $15,659; Bruck Bros., Route 1, Box 66, Port Angeles, $15,762; Pakar Construction Co., Box 447, Chehalis, $19,663.

PAINTING BRIDGES—SNOHOMISH RIVER—Cleaning, painting bridges Nos. 1/211W and 1/211E on PSH No. 1, Snohomish County, a State Project involving about 1,300 hours.
LOW BIDS: Andrew Nesheim, 9711 191st S.W., Edmonds, $108,930; General Paint Removing Co., 526 6th N., Seattle, $137,800; C. H. Savage Co., 4126 S.E. Milwaukie Ave., Portland, $139,344.

PAINTING NISQUALLY RIVER BRIDGE—Cleaning, painting bridge on PSH No. 1, Thurston and Pierce counties, a State Project involving about 90 hours.
LOW BIDS: A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland, $9,975; Norman J. Ryker, 3120 S. Tacoma Way, Tacoma, $11,950; C. H. Savage, Portland, $12,616.

ELECTRICAL WORK ON N. FORK OF WILLAPA RIVER — Reconstruct electrical system on bridge No. 13/103 on PSH No. 13, Pacific County, a State Project.
LOW BID: Van S. McKenny Co., Inc., 104 Wall St., Seattle, $14,322. ONLY OTHER BID: Service Electric, Inc., 12304 32nd N.E., Seattle, $19,600. DE 7-17. Previous report 7-9

●EARTHWORK, STRUCTURES— Othello, Wash.

Bids will be opened August 27 by Bureau of Reclamation, Box 368, Ephrata, for earthwork, concrete lining and structures, Wahluke Branch Canal, Station 171+13 to Station 333+20, Columbia Basin Project, near Othello, Wash.; DC-4943. Plans with above office.
Quantities: 444,000 c.y. excavation; 9,930 c.y. concrete in canal lining; 161 c.y. concrete in structures. SP 7-17

SEWER SYSTEM (PHASE 1)—Pasco, Wash.
(Estimated cost $300,000)

Hearing will be held the latter part of this month or early in August by City Council, City Hall, Pasco, concerning the proposed LID No. 63 for installation of sewer mains in Pasco. Specifications for the system by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. SC 7-13. Previous report 6-7

POWER PLANT—Pend Oreille River, Wash.
(Estimated cost $150,000,000)

Preliminary plans for construction of a 540,000-kw dam, powerhouse, reservoir and other facilities on Pend Oreille River in Washington close to Canadian border, were approved by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, subject to confirmation by Federal Power Commission. PD 7-13

★OVERLAY PAVEMENT— Prosser, Wash.

Award to Morrison & Co., Inc., Box 597, Walla Walla, $10,490 ($3,925 Sched. 1, $6,565 Sched. 2), by City Council, City Hall, Prosser, for construction of approximately 970 ton of type I-1 asphalt concrete overlay pavement. Specifications by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened July 9.
IG 7-12. Previous report 7-3

●WATER LINE— Renton, Wash.

Bids will be opened 8 p.m., July 23, by King County Water District No. 90, at the Renton Hill Community Hall, 156th Ave. S.E. and S.E. 128th St., Renton, for 10,000′ water main construction in LID No. 2. Specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. $2 deposit.
Quantities: 7,680′ of 6″ and 2,140′ of 4″ water mains; gate valves, fittings and appurtenances. SP 7-12

▲PAVING— Richland, Wash.

Sub-bids received by J. A. Jones Construction Co., Box 742, Richland, for paving certain roadway and parking areas at Richland. Bids opened July 8. LOW BIDS: Twin City Construction Co. and Clarence Braden, 404 N. 7th, Pasco, $39,069 (joint venture); L. W. Vail Co., Box 847, Pasco, $40,202; Acme Pavers, Inc., E. 10th Ave., Kennewick, $41,-628. SP 7-12. Previous report 7-3

MARGINAL WAY EXPRESSWAY— Seattle, Wash.

Several modifications in plans have been approved by City Council Streets and Sewers Committee of Seattle and the Washington State Highway Commission on the proposed West Marginal Way expressway, according to City Engineer Roy W. Morse. The changes were recommended by the City Planning Commission to minimize adverse effects of the expressway on the South Park community. The project is being planned as a link between the 1st Ave. South bridge and Highway 99, eventually to connect with the proposed freeway. Although it is too late to make basic changes in the structure, the following modifications have been approved: construction of an "on ramp" for northbound traffic at Cloverdale St. instead of Sullivan St.; construction of a pedestrian overpass at Henderson St.; construction of a pedestrian sidewalk in an overpass to be erected at 14th Ave. South. SC 7-16

STEAM GENERATING UNIT—Seattle, Wash.

Bid opening postponed, with new opening date to be announced later, by Board of Regents, University of Washington, Administration Bldg., campus, Seattle, for furnishing and erecting a new steam generating unit having a continuous steam generating capacity of 150,000 lb. steam per hour. Plans and specifications by Bouillon & Griffith, engineers, 1411 Fourth Ave. Bldg., Seattle. Bids were to have been opened August 13.
PD 7-16. Previous report 6-27

▲STREET LIGHTING— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing 12 units of mercury-vapor luminaires including underground installation on 9th Ave. N.W. 105th to 11th Ave. N.W., et al. Bids opened July 10.
LOW BIDS: Donald W. Close Co., 2921 13th S.W., Seattle, $9,715; Holert Electric, Inc., 2300 W. Spokane, Seattle, $11,178; Van S. McKenny Co., 104 Wall, Seattle, $12,688.
PD 7-12. Previous report 6-29

★STORM, SANITARY SEWERS— Seattle, Wash.

Award to Matheson-Villella & Lario Libri Construction Co., 5960 Empire Way, Seattle, $20,705, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing 550′ of 36″ reinforced concrete pipe sewer for a storm sewer, and 550′ of 18″ reinforced concrete pipe sewer for a sanitary sewer and miscellaneous appurtenances (Ord. No. 86-153), south of N. 125th between Ashworth and Stone avenues, Seattle.
PD 7-12. Previous report 7-5

★INTERCEPTOR SEWER SYSTEM— Seattle, Wash.

Award to Harbor Construction Co., 4055 21st W., Seattle, $350,830, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for construction of West Seattle interceptor sewer system, Beach Drive, et al, involving 4,960′ of 54″ and 40′ of 36″ reinforced concrete culvert pipe sewer. PD 7-12. Previous report 7-5

●TRUCKS— Seattle, Wash.

Bids will be opened 10 a.m., July 23, by Paul R. Hendricks, purchasing agent, 511 County-City Bldg., Seattle, for furnishing two 1½-ton trucks with cab. Specifications with above office. SC 7-12

●GRADE SEPARATION— Seattle, Wash.

Bids will be opened 2 p.m., August 14, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for

grade separation at West Garfield St. and 15th Ave. W., Seattle; Ord. No. 86064. Specifications with city engineers office, 404 County-City Bldg.

Quantities: 555 c.y. excavation; 3,360' creosoted piling; 17,690' composite piling; 400 c.y. select backfill; 164 sq. yd. asphaltic concrete paving; 300 sq. yd. concrete sidewalk; 1,583 c.y. class 6½ concrete in place; 283,120 lb. reinforcing steel; 125,400 lb. structural steel; 2,700' aluminum bridge rail; steel stairway; demolition; adjustments to lighting. Alternates apply to the following items: 16 of 48' span, 40 of 50' span, 4 of 51' span, 4 of 60' span, precast concrete beams, 2 of 95' span steel box girders (Alt. A); same quantity in pretension concrete beams with 4 of 95' span steel box girders (Alt. B). PD 7-12

★GALVANIZED WIRE— Seattle, Wash.

Award to Jack Pruzan Co., 109 Jackson, Seattle, $2,495, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 35,000' of 7/16" galvanized guy wire, 7 strand.
PD 7-13. Previous report 7-3

★STANDPIPES— Seattle, Wash.

Award to Pacific Water Works Supply, 2900 1st Ave. S., Seattle, $3,325, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 25 standpipes for Iowa fire hydrants.
PD 7-13. Previous report 7-3

★WATER TANK, STANDPIPE ROOF PAINTING, CLEANING— Seattle, Wash.

Award to Delmar Painting & Decorating Co., 9109 31st N.W., Seattle, $4,000, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for 36,450 sq. ft. of cleaning and painting steel plate roofs, including radio antennae supports, roof ladders, angles and finials, on seven elevated water tanks and standpipes in Seattle.
PD 7-13. Previous report 7-5

● CONCRETE PAVING, SEWERS— Seattle, Wash.

Bids will be opened 2 p.m., July 24, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing concrete paving on Inverness Drive, et al, LID No. 6161, a sewer on W. Lee St., et al, Ord. No. 86,220, and a sewer on 39th Ave. S., et al, LID No. 6156. Specifications with city engineer, 404 County-City Bldg., Seattle; separate contract for each project.

QUANTITIES—INVERNESS DRIVE: 26,400 sq. yd. of 6" concrete paving; 12,650 c.y. earth work, sub-grading; 7,700' concrete sidewalks; miscellaneous items. W. LEE ST.: 170' of 15", 174' of 12" pipe sewer; 70' of 10" corrugated metal pipe sewer; 5 manholes; miscellaneous drainage items. 39TH AVE. S.: 10,810' of 6" to 30" pipe sewer; 44 manholes; miscellaneous drainage items. PD 7-13

● PUMPING PLANT EXPANSION, FORCE MAIN— Seattle, Wash.

Bids will be opened 2 p.m., July 31, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing 145' of 24" and 1,160' of 42" force main pipe, to enlarge existing pumping station and a new force main on 63rd Ave. S.W., Seattle. Specifications with city engineer, 404 County-City Bldg., Seattle. PD 7-13

▲ASPHALTIC CONCRETE SURFACING— Seattle, Wash.

Bids received by Shoreline School District No. 412, Myron Ernst, secretary, E. 16th, E. 158th and 20th Ave. N.E., Seattle, for 5,800 sq. yd. of 1½" asphaltic concrete surfacing at Meridian elementary school, 170th and Meridian, Echo Lake elementary school, 195th and Wallingford, and Shoreline High School, E. 185th and 1st Ave. N.E., in Seattle.

LOW BID: Lake City Gravel & Materials, Inc., 10728 Bothell Way, Seattle. Amounts of low bids will be released later and award will be made on August 5.
PD 7-17. Previous report 7-9

● COPPER SULPHATE— Seattle, Wash.

Bids will be opened 10 a.m., August 7, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., for furnishing 80,000 lb. copper sulphate. Specifications with above office. PD 7-17

● METER PARTS— Seattle, Wash.

Bids will be opened 10 a.m., July 23, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing of parts for watch dog meters. Specifications with above office. PD 7-17

WATER LINE— Snohomish, Wash.

An emergency ordinance has been passed by City Council, City Hall, Snohomish, authorizing the construction of an auxiliary water line from the Everett line to the Snohomish city reservoir. The project, estimated at $6,051, was passed by emergency ordinance because the laying of the 8" pipe was not included in the present budget. SC 7-13

NATURAL GAS PIPELINE— Spokane, Wash.
(Estimated cost $3,000,000)

Construction of a natural gas pipeline has just started from Spokane and is scheduled to reach Coeur d'Alene, Idaho, in mid-August and Kellogg, Idaho, in late September. A. B. Allyne, vice president in charge of transmission for Pacific Northwest Pipeline Corp., has reported that between 200 and 250 men will be employed at the peak of construction of the Spokane-Kellogg line, a distance of about 75 mi. The line will be a 6" welded steel pipe of the same construction, although smaller than the line built into Spokane from the gas fields of the southwest. SC 7-12

TRUNK SEWER— Spokane, Wash.

Assessments totaling $349,000 approved by City Council, City Hall, Spokane, for construction of the North Perry trunk sewer between Francis and Rowan and Lidgerwood and Crestline in Spokane. SC 7-13

SEWAGE TREATMENT PLANT— Sunnyside, Wash.

Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, have been retained by City Council, City Hall, Sunnyside, to prepare plans for a sewage treatment plant and for complete enlargement of the sewer system at Sunnyside. DM 7-13

POWERHOUSE— Swift Dam Site, Wash.

Additional description given for construction of powerhouse and installation of turbine generators at Swift Hydroelectric Project, Lewis River, Wash. A low bid of $2,596,848 was submitted June 26 by Guy F. Atkinson, 10 W. Orange Ave., South San Francisco, to Pacific Power & Light Co., Paul B. McKee, president, Public Service Bldg., Portland. The contract will include reinforced concrete foundations for the indoor-type plant; 80'x190'x60' high steel frame superstructure with aluminum panel sheathing; installation of turbines, generators and appurtenances and construction of a switchyard. This is the last major construction phase of the $51,000,000 project, and total estimated cost of the powerhouse section is $10,500,000. The low bidder has been awarded a contract for the downstream canal, forebay and Swift No. 2 powerhouse for the Cowlitz County, Wash., P.U.D. phase of the project. WB 7-5. Previous report 6-28

▲PAVING, SEWER— Tacoma, Wash.

Woodworth & Co., Inc., 1200 E. D St., Tacoma, submitted a low bid of $54,872 for asphalt paving, storm sewer and concrete curb and gutter on N. 17th St., Bridgeview Drive, et al, LID No. 4610, Tacoma. Bids opened July 15 by Board of Contracts and Awards, 204 City Hall, Tacoma.
SP 7-16. Previous report 7-11

CITY DEVELOPMENT— Tacoma, Wash.
(Estimated cost $80,000,000)

Preliminary drafts of a six-year plan for development of Tacoma will be presented to the City Planning Commission during July. Project will involve the following: storm and sanitary drains, $25,000,000; pollution control in Commencement Bay; business center improvements; new civic auditorium; urban renovations. DC 7-6

●■ POWER LINE— Tacoma, Wash.

Bid opening extended from July 15 to 2 p.m., August 2, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for clearing and construction of 8.2 mi. of the Tacoma-Cowlitz 230 kv tap line terminal, Pierce County, Wash.; Inv. No. 8464.

Planholders: Sierra Electric, 6011 N.E. Mallory St., Portland; Fischback & Moore, Inc., 3201 Fremont Ave., Seattle; Power City Electric Co., N. 920 Howard St., Spokane; Washington Utilities Construction Co., 1202 Regents Blvd., Fircrest, Tacoma; John M. King Co., 1601 Taylor Way, Tacoma; Lee Hoffman, P.O. Box 37, Beaverton, Ore.; Nesheim Construction Co., 6712 36th Ave. S.W., Seattle; Zachary Construction Co., P.O. Box 719, Everett; Bednorz Construction Co., 23 Rainier Place S., Tacoma; Nichols Construction Co., P.O. Box 336, Grandview; R. C. Hughes, 2105 N. Airport Way, Spokane; Paul Helmick, P.O. Box 6128, Seattle.
WB 7-13. Previous report 6-27

● SEWER WORK— Tacoma, Wash.

Bids will be opened 3 p.m., July 24, by Port of Tacoma, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for installation of 500' of 12" standard concrete sewer pipe, 130' of 12" reinforced concrete sewer pipe, and constructing two catch basins under Lincoln Ave. along the side of Alexander Ave. in the Port of Tacoma Industrial Development District. Specifications with above office. SC 7-13

● SEWERS— Tacoma, Wash.

Bids to be opened 11 a.m., July 22, by Board of Contracts and Awards, David D. Rowlands, chairman, City Hall, Tacoma, for construction of sanitary sewers in LID No. 1968, a distance of four city blocks. Plans with above office. Certified check 5%.
DC 7-17

● COMMUNICATION LINE REMOVAL— The Dalles Dam, Wash.

Bids will be opened 2 p.m., August 1, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for removal and disposal of the temporary signal and communication lines provided for Spokane, Portland and Seattle Railway, at The Dalles Dam Project, Wash.; CIVENG-35-026-57-6. Specifications with above office. Bid bond 20%. SP 7-13

▲SUBMARINE CABLES— Tumwater, Wash.

Bids received by the district engineer of Washington State Highway Commission, J. C. Claypool, Tumwater, for replacing four existing electrical submarine cables with four new cables furnished by the state, on PSH No. 13, Chehalis River Bridge No. 13/1, City of Aberdeen, Grays Harbor County. Bids opened July 11. LOW BID: Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam, $9,770. ONLY OTHER BID: McCary Marine Construction, 3270 Fairview Ave. N., Seattle, $10,300.
SP 7-16. Previous report 6-25

● AIR COMPRESSOR OUTFIT— Vancouver, Wash.

Bids will be opened 3 p.m., August 2, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, one garage type air compressor unit; Inv. No. 8490. Specifications with above office.
SP 7-13

★STREET IMPROVEMENTS— Vancouver, Wash.

Award to Portland Road & Driveway Co., 7295 S.E. King Road, Portland, $17,401, by city purchasing agent, R. E. Moisant, Municipal Bldg., 712 Washington St., Vancouver, for improvement of Daniels, 9th and 10th streets, L.I.D. No. 242.
WB 7-13. Previous report 7-6

▲LATERAL SEWERS— Walla Walla, Wash.

Bids received by City Council, City Hall, Walla Walla, for construction of lateral sew-

ers in southeast Walla Walla. Bids opened July 10. LOW BIDS: Wester Construction Co., Athol, Idaho, $14,409 (basic), $16,961 (alt.); Hickman Bros., 3603 E. 6th, Spokane, $16,329; E. M. Gostovich, Box 264, Sunnyside, $17,760. SC 7-13. Previous report 6-22

SEWAGE DISPOSAL PLANT— Wenatchee, Wash.
(Estimated cost $816,000)

Working drawings underway by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, for a sewage treatment plant ($500,000 estimate), two storm water pumps, laboratory for chemical operation, improvements to existing sewer lines and a sewer trunk line. IG 7-10. Previous report 4-2

★GATES, GUIDES, BUS DUCT— Wenatchee, Wash.

Award to California Steel Products, Richmond, Calif., $1,992,330, by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for furnishing 9 intake gates, each 24'x50', guides, anchor bolt assemblies, head sills and appurtenances, for the Rocky Reach hydroelectric project. No award has yet been made for the bus ducts. SP 7-13. Previous report 4-16

★TRASHRACKS, GUIDES— Wenatchee, Wash.

Award to Commercial Steel Fabricators, Inc., 2929 16th S.W., Seattle, $405,133, by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for furnishing 84 intake trashracks and related guides and trashrack guides for the Rocky Reach hydroelectric project. SP 7-13

▲SUBSTATION— Wenatchee, Wash.

Bids received by Chelan County PUD No. 1, Kirby Billingsley, manager, Box 1231, Wenatchee, for one packaged substation (Manson Substation) consisting of a 6000/7500 kva, 115/13.2 kv transformer with tap changing under load, steel structure, lightning protection, high side fuses and air switch, three feeder breakers and other equipment. Bids opened July 12. LOW BIDS: Westinghouse Electric Corp., Pittsburgh, Pa., $109,846; Allis-Chalmers Mfg. Co., Milwaukee, Wis., $110,514; General Electric Co., Schenectady, N. Y., $110,712.
SP 7-16. Previous report 6-19

TUMWATER CANYON HYDROELECTRIC PROJECT— Wenatchee, Wash.
(Estimated cost $38,600,000)

Application has been made by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, to FPC for license to construct a hydroelectric project in Tumwater Canyon. The project would be known as the Wenatchee River development and would involve a 200' high rock fill dam four mi. above mouth of the gorge near Leavenworth. The water from the balancing reservoir behind the structure would be run through a four mi. long tunnel to a 180,000 kw power plant at the mouth of the canyon. The developed project would embrace recreational, flood control, fish and power resources in the Wenatchee River watershed.

The Army Corps of Engineers is making a study of storage possibilities above the proposed PUD project as part of its review of the "308" report on the comprehensive development of the Columbia River and tributaries. DC 7-17

★BRIDGE CLEANING, PAINTING— Wenatchee, Wash.

Award to only bidder Robinson & Hinrichs Associates, 311 E. Market St., Aberdeen, $18,805, by Chelan County Commissioners, Courthouse, Wenatchee, for cleaning and repainting five county bridges. Bid opened July 15. SP 7-17. Previous report 7-10

▲STATE HIGHWAY PROJECT— Yakima, Wash.

Bids received by Washington State Highway Commission at Yakima, R. H. Pyle, district engineer, for construction of an illumination system at Dodge Junction, PSH No. 3, Garfield County; a State Project. Bids opened July 11. LOW BIDS: Knobel Cascade Electric, 3311 Tieton Drive, Yakima, $4,000; Power City Electric, N. 920 Howard, Spokane, $4,250; Strain Furniture & Hardware Co., Main St., Pomeroy, $6,720.
IG 7-13. Previous report 6-21

IDAHO

▲POWERHOUSE WATERPROOFING— Albeni Falls, Idaho

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for waterproofing powerhouse deck at Albeni Falls Dam, Pend Oreille River, Idaho; CIVENG-45-108-57-81. Bids opened July 11. LOW BID: Arsenault Masonry, Inc., E. 2121 Springfield, Spokane, $6,457. ONLY OTHER BID: Misco, Inc., 1123 W. Hanford, Seattle, $7,408. Estimate, $9,320.
SP 7-12. Previous report 7-6

●STATE HIGHWAY PROJECTS— Boise, Idaho

Bids will be opened 2 p. m., July 30, by Department of Highways, 603 Main St., Boise, for highway construction. Specifications with above office.

SURFACING — UTAH LINE - PRESTON: Scarifying and relaying existing bituminous surface and seal coating 6.4 mi. on State Highway No. 34, Franklin County: Idaho Proj. No. ST-M-1737(501).

Quantities: 350 ton crushed gravel surface; 6.40 mi. mixing, finishing and rolling; 375 ton asphaltic road material for roadmix; 25,750 gal. same for seal coat; 1,285 ton cover coat material; 6.40 mi. tearup, pulverize and windrow.

WINDROWS, SURFACING STOCKPILING —STARKEY LOOP: Constructing crushed gravel windrows on 3.0 mi. and a crushed gravel surfacing on 6.8 mi. of Starkey Loop Road and furnishing cover coat in stockpile,



Residence for Mr. and Mrs. R. D. Schmitz, Storm Lake, Iowa
Architects: Smith, Voorhees, Jensen, Silletto and Associates, Des Moines, Iowa

Time gives to Rilco laminated woods a warmth and richness and depth of beauty impossible with other materials. Rilco laminated wood beams, for example, age gracefully while resisting warping, checking, splitting.

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Adams County; Idaho Proj. No. ST-3112(511) and Stockpile No. 211.

Quantities: 19,800 ton crushed gravel base course; 4,400 ton crushed gravel in windrows; 3,720 ton cover coat material.

DRAIN, SURFACE—DEEP CREEK ROAD: Constructing roadway, drainage structures and bituminous surface treatment on 5.076 mi., Jct. U.S. 191-East, Oneida County; FAP No. S-1707(1).

Quantities: 71,500 c.y unclassified excavation; 380 c.y. excavation for structures; 20,600 ton selected borrow; 14,700 ton crushed gravel base course; 49,200 gal. asphaltic road material; 2,275 ton cover coat material; 3.3 c.y. concrete; 1,850' pipe culvert. SP 7-16

WATER LINE REPLACEMENT—Boise, Idaho

Water line replacement this summer will involve 14 blocks of excavation in Boise, according to J. E. Fuger, water superintendent, City Hall, Boise. Most of the work involves replacement of old lines and relocation of meters in streets which will be paved this summer. Work is now underway on the 600 block of W. Day St., the 600 and 700 blocks of N. Grant St., the 600 and 700 blocks of Bridger and the 600 block on Sublette. LID street paving this summer will include eight blocks and city resurfacing is planned for six blocks, including Highland Ave. SC 7-12

▲GRADING— Boise, Idaho

Bids received by Bureau of Public Roads, 408 N. 10th St. (Box 1559), Boise, for grading 4.886 mi. Lewis & Clark Highway, Clearwater National Forest, Idaho County; FHP No. 16-E1, K. Bids opened July 12. LOW BIDS: Peter Kiewit Sons' Co., Box 253, Idaho Falls, $520,032; Osberg Construction Co., 1132 N. 128th, Seattle, $606,625; J. Ira McNutt, Box 296, Springfield, Ore., $631,250. WB 7-13. Previous report 6-25

★STREETS, CURBS, GUTTERS— Caldwell, Idaho

Award to J. O. Young & Sons, Box 52, Nampa, $17,987, by City Council, City Hall, Caldwell, for improvements involving streets, curbs and gutters in LID No. 44, Caldwell. SP 7-13. Previous report 7-2

▲PUMPHOUSE, SUBSTATION, DISCHARGE LINE—Fort Hall Indian Reservation, Idaho

E. D. Anderson, Pocatello, is low bidder at $326,645 with a delayed offer for construction of pumphouse, 6,700' of wooden piling for pumphouse, substation, and 1,200' discharge line for the Portneuf Pumping Station, Michaud Irrigation Project, Fort Hall Indian Reservation on west banks of Portneuf River about eight mi. west of Pocatello, Idaho; Inv. LO-13-57-627. The Bureau of Indian Affairs, Portland Area Office, Land Operations-Irrigation, room 851, 1001 N.E. Lloyd Blvd., Portland, ruled that Anderson's bid, while not received in time for reading at the bid opening, had been mailed in time. SC 7-12. Previous report 7-11

▲RESERVOIRS, PIPELINES— Grangeville, Idaho

An apparent low bid of $67,768 was submitted by Kenaston & Huntley, 811 11th, Lewiston, for construction of two 500,000-gal. reservoirs and connecting water lines for the present Grangeville water system. Bids were opened by the City Council, City Hall, Grangeville, July 10. One bid on the two water storage reservoirs, two booster pumps and 6" and 10" water mains was received June 17 but was rejected. (PCD 6-22.) DC 7-16

●FURNISH ASPHALT— Lewiston, Idaho

Bids to be opened 7:30 p.m., July 22, by A. M. Quane, city controller, City Hall, Lewiston, for furnishing the street department with about 100,000 gal. liquid asphalt in grades MC-2, MC-3, RC-2 and RC-3 for balance of calendar year. Specifications with above office. Certified check or bid bond 5%. DC 7-16

★TRANSMISSION LINE— Lewiston, Idaho

Awards, subject to REA approval, announced by Clearwater Power Co., 1838 G St., Lewiston, for construction of a 34-kv transmission line from Clarkston to Anatone, a 34-kv line from Clarkston to Genessee and a 69-kv line from Benewah-Latah county line to Tensed; Proj. Idaho 10S, Nez Perce. Bids opened July 10. TRANSMISSION—AWARD: Power Line Erectors, N. 2018 Waterworks St., Spokane, $244,778. 2 N D LOW: Larned Construction Co., 2124 N. Waterworks, Spokane, $262,353. THIRD LOW: Donovan Construction Co., St. Paul, Minn., $282,454. DISTRIBUTION—AWARD: Larned Construction Co., Spokane, $323,532. ONLY OTHER BID: Power Line Erectors, Spokane, $330,985. SP 7-16. Previous report 7-3

★CUTOUTS—Michaud Flats Project, Idaho

Award to James R. Kearney Corp., St. Louis, Mo., $1,173 fob American Falls, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for Sched. 3, 39 unit-combination arrester and open-drop-out cutouts for Areas 1 and 6. SP 7-13

GRADING, PAVING— Parma, Idaho
(Estimated cost $14,000)

Plans underway by Melvin V. Davenport, city engineer, City Hall, Parma, on grading and paving city streets. Bids will be called at a later date. DM 7-13

MONTANA

SEWAGE TREATMENT FACILITIES— Montana
(Estimated cost $1,902,668)

Priority has been awarded by the Montana State Board of Health, Capitol Bldg., Helena, for assistance in financing sewage treatment facilities in Butte, Billings, Culbertson, Plevna, Cut Bank and the State Orphans Home at Twin Bridges. The priority brings the total to nine communities which will have projects (estimate for all nine projects is $2,005,466).

A $1,118,878 project is planned for the Butte area to provide sewage interceptor lines to prevent the present pollution of Blacktail Deer Creek. Construction will start in the fall, with $250,000 to be used from federal funds. Industrial waste waters from the Butte mines, the Anaconda smelter and domestic sewage will be discharged into stabilization lagoons near Warm Springs. The Anaconda Co. is financing the lagoon construction. The Billings project will provide sewer interceptor lines for west Billings, to deliver sewage to the city's sewage treatment plant (estimated cost $420,000). The State Orphans' Home at Twin Bridges plans construction of a sewage lift station, outfall line and sewage lagoons at an estimated cost of $28,571. Other projects will amount to $59,000 at Culbertson, $21,350 at Plevna and $254,860 at Cut Bank. SC 7-11

STREET IMPROVEMENT PROGRAM— Billings, Mont.
(Estimated cost $3,000,000)

Reports of a street improvement program survey have been submitted to the City Council, City Hall, Billings, by Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena, who began the work last December. The engineers have suggested the establishment of two special improvement districts for the program, one of which would embrace the downtown section of the city and the other being a city-wide arterial system embracing main thoroughfares within the city. Cost of the downtown project was estimated at $279,000 and cost of the arterial project, $2,743,000. Cost of the down town project would be borne by owners of the property affected; city-wide arterial system would be shared equally by all property owners in the city. SC 7-13

●SEWAGE DISPOSAL SYSTEM— Culbertson, Mont.

Bids will be opened 8 p.m., July 25, by E. F. Garbe, town clerk, Town Hall, Culbertson, for installation and construction of 3,600' of 8" force main, valves, overflow manhole, sewage lift station and pumps, all involving 48,000 c.y. earthwork, at Culbertson. Specifications with L. W. Burdick, consulting engineer, c/o Willard Webster, Box 1134, Williston, N. Dak. $30 deposit. Bid bond 5%. SC 7-16

★WATER SUPPLY, DISTRIBUTION SYSTEM— Flaxville, Mont.

Award announced by James Cavanaugh, town clerk, Town Hall, Flaxville, for a distribution system involving 8,405' cement-asbestos pipe and 4,350 lb. cast iron fittings (Sched. A) and a 25,000-gallon elevated steel water tank on 100' steel tower and appurtenant work (Sched. B) at Flaxville. Specifications by Wenzel & Co., consulting engineers, 41 Meadowlark Drive, Great Falls. Bids opened July 9. SCHED. A—AWARD: Kallevig Bros., Sidney, $28,876 (second low basic bid). LOW BID: A & B Drilling Co., Scobey, $28,131. 3RD LOW: Elmer Johnson Plumbing & Heating, Glasgow, $30,389. SCHED. B—ONLY BIDDERS (not awarded): Pittsburgs-Des Moines Steel Co., Denver, Colo., $21,945; Chicago Bridge & Iron Co., 550 W. 175th, Salt Lake City, Utah, $24,150. SP 7-17. Previous report 7-3

★PAVING, UTILITIES— Helena, Mont.

Awards announced by W. J. Leary, acting city manager, Civic Center Bldg., Helena, for street paving, utility connections and sanitary sewer construction in SID Nos. 204 and 205 in Helena. AWARDS: Helena Sand & Gravel Co., Broadwater, Helena, $112,723 (SID 204), $133,543 (SID 205). No award was noted for SID 202 for which bids were opened at the same time. SC 7-17. Previous report 6-27

●WOOD BAFFLE SETS— Hungry Horse, Mont.

Bids will be opened July 22 by Bureau of Reclamation, Hungry Horse Project,

Be On Time!!!

Salesmen can obtain more orders if they are first to call on a prospect. Give them the opportunity of being early by using

Pacific Construction Daily

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Gentlemen: Send me Pacific Construction Daily and Pacific Builder and Engineer for ☐ one year at $79; ☐ 6 months at $53.

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Mont., for providing wood baffle sets to be used in making fish ladders in the culverts that carry Riverside, Felix, North Logan and Harris creeks under the Spotted Bear Road into Hungry Horse Reservoir. Specifications with above office. SC 7-17

▲**IRRIGATION PROJECT— Huntley, Mont.**

Bids received by Montana Water Conservation Board, George Sahlnen, chief engineer, 409 Sam Mitchell Bldg., Helena, for a pumping and canal project, the Hillside Pumping Project, involving approximately 11 mi. canals and laterals with two pumping plans to irrigate an additional 1,820 acres of land near Huntley. Bids opened July 10. SCHED. 1 (all work except pump)—LOW BIDS: W. P. Roscoe Co., Box 633, Billings, $132,927; F. L. Flynn Co., 520 Ave. D, Billings, $152,597; McLaughlin Construction Co., 12th and Clark, Livingston, $163,126. SCHED. 2 (pump)—BIDDERS: Fairbanks, Morse Co., St. Paul, Minn., $22,750, $23,570 (alt.); Barry O'Leary, Box 1102, Billings, $28,566. LS 7-12. Previous report 7-3

SUBSTATION— Kalispell, Mont.
(Estimated cost $150,000)

Construction will start soon by Pacific Power & Light Co., R. R. Gordon, district manager, 111 1st Ave. E., Kalispell, for construction of a steel framed substation with a 10,000-12,000-kva capacity. The substation will be in the Greenacres district and will serve as Pacific's main distribution point for Kalispell and the immediate rural area. A new 34,500-volt transmission line will be built to interconnect with the BPA facilities east of Kalispell. The new substation is one of the major items in Pacific Power & Light's $1,600,000 system improvement program this year for the Kalispell district. SC 7-17

★**SIDEWALKS, CURBS— Missoula, Mont.**

Award to Gordon Construction Co., Box 319, Missoula, $20,562, by Montana State Board of Examiners, Capitol Bldg., Helena, for construction of sidewalks and curbs at Montana State University in Bozeman. Bids opened July 2. LS 7-12. Previous report 6-18

UTAH

●**EARTHWORK, PIPE LINE, STRUCTURES— Ogden, Utah**

Bid opening extended from July 17 to 10 a. m., July 23, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for earthwork, 4.2 mi. of pipe lines, concrete structures for trunkline 10 (West Farmington) and trunkline 18.8 (Woods Cross), Davis Aqueduct near Ogden, Davis County, Utah; Spec. No. DC-4927. SP 7-16. Previous report 6-11

●**STATE HIGHWAY PROJECTS— Salt Lake City, Utah**

Bids will be opened 2 p. m., July 23, by Utah State Road Commission, Salt Lake City, on two highway construction projects. Specifications with above office. $2 deposit.

BITUMINOUS SURFACING — STATE ROAD No. 43: Construction of 7.947 mi. of 2½" roadmix bituminous surfacing from the Utah-Wyoming state line southeasterly to Manila, Daggett County, Utah; FASP No. S-0191(1).

Quantities: 1,038 ton bituminous material; 74,900 ton gravel; 135,000 c.y. roadway excavation.

SURFACING, BRIDGES — STATE ROAD No. 39, F.A.S. 570: Construction of 6.697 mi. of 2½" roadmix bituminous surfacing and three concrete bridges over 20' span between Pineview Dam - Huntsville and Huntsville-Eden, Weber County, Utah; FASP No. 8-0568(1) and State Proj. Nos. 1575 and 1576.

Quantities: 1,170 ton bituminous material; 40,500 ton gravel; 83,500 c.y. roadway excavation; 795 c.y. concrete. SP 7-12

ALASKA

●**SEAPLANE FACILITY— Excursion Inlet, Alaska**

Bids to be opened 10 a.m., July 26, by Alaska Department of Aviation, Eugene G. Roguszka, acting director, Glover Bldg., Anchorage, for construction of a seaplane facility in Excursion Inlet; Project No. 9-50-044-01. Plans with above office. $30 deposit. DC 7-16

▲**GRADING, BRIDGE IMPROVEMENTS— Juneau, Alaska**

Bids received by Bureau of Public Roads, 311 Federal Bldg., Juneau, for grading and bridge improvement on Copper River Highway, Section D-1. Bids opened July 12. LOW BIDS: Stock & Grove, Inc., Box 2051, Anchorage, $563,124; B-E-C-K Constructors, 3647 Stone Way, Seattle, and McLaughlin, Inc., Box 1824, Great Falls, Mont., $645,709 (joint venture); Pacific Alaska Contractors, Inc., 1515 Center St., Tacoma, Wash., $757,437. JU 7-16. Previous report 7-6

▲**DREDGING, BREAKWATER— Ketchikan, Alaska**

Bids received by Corps of Engineers, Alaska district, in the Seattle office, 4735 E. Marginal Way, Seattle, for dredging and constructing breakwater at Bar Point, Ketchikan Harbor; CIVENG-95-507-57-6. Bids opened July 12.

LOW BIDS: Denali-McCray Construction Co., Box 506, Anchorage, $1,356,560; S. S. Mullen, Inc., Box 2886, Terminal Annex, Seattle, $1,398,500; Puget Sound Dredging Co., 2929 16th Ave. S.W., Seattle, $1,402,392. Government estimate, $1,581,795. SP 7-13. Previous report 7-3

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

July 23—Milwaukie—High School Addition 7-13
July 23—Siletz—School Additions 7-3
July 25—Crater Lake—Apartment Houses 7-5
July 25—La Grande—Dormitory, Gymn, Heating Plant 6-28
July 30—Butte Falls, Fort Klamath—Residences 7-13
July 30—Klamath Falls—Jet Test Cell 7-3
July 30—Klamath Falls—Aircraft Shelter 7-2
July 30—Corvallis—Wool Laboratory Building 7-11
July 30—Portland—Residence 7-17
July 30—Portland—Swimming Pool 7-6
July 30—Wilsonville—Mental Hospital 7-12
July 31—Tillamook—Light Station Roofing 7-17
Aug 1—Lebanon—Hospital Addition 7-13
Aug 1—Portland—Courthouse Alterations 7-17
Aug 1—Portland—Primate House, Monkey Island 6-27
Aug 1—Yamhill—Grade School Addition 7-13
Aug 5—Silverton—City Hall Work 7-12
Aug 6—Madras—District Office Building 7-17
Aug 7—Portland—Gymnasium 7-12
Aug 8—Ashland—Dormitory, Commons Building 7-11
Aug 12—Milton-Freewater—Police Station 7-13
Aug 14—West Linn—Fire Hall Addition 7-13

WASHINGTON

July 22—Clarkston—Swimming Pool 6-22
July 22—Seattle—Residence 7-17
July 22—Yakima—Storage Building 6-25
July 23—Arlington—Office Building 6-25
July 23—Mead—Junior High School 7-10
July 23—Mercer Island—Store Addition, Drug Store 7-13
July 23—Metaline Falls—Elementary School 7-12
July 23—Seattle—High School Gymnasium Alterations 7-10
July 23—Seattle—Retirement Home Addition 7-9
July 23—Seattle—Hospital Addition, Remodeling 7-13
July 24—Everett—Rest Rooms 7-17
July 24—Seattle—Heaters 7-17
July 24—Spokane—Multipurpose Units 7-17
July 24—Spokane—Gas Unit Heaters 7-12
July 25—Seattle—Galley Alterations 7-13
July 26—Opportunity—School Addition 7-11
July 26—Tacoma—Book Shelving, Toilet Facility 7-9
July 29—Aberdeen—PUD Building Conversion 7-2
July 29—Chehalis—Natatorium 7-5
July 29—Seattle—Luster Apartment 7-17
July 30—Seattle—Comfort Stations 7-17
July 31—Darrington—Residences 7-12
Aug 1—Wenatchee—Ranger Station Residence 7-16
Aug 2—Edmonds—Elementary School 7-13
Aug 2—Pullman—Building Addition 7-16
Aug 6—Kent—Junior High School Addition 7-10
Aug 8—Randle—School Additions 7-12
Aug 13—Seattle—Elementary School Additions 7-16

IDAHO

July 22—Boise—Intercommunication System 7-11
July 22—Payette—High School 7-13
July 25—Boise—Capitol Building Renovation 7-12
July 25—Lewiston—College Building Alterations 7-16
July 25—Moscow—Administration, Laboratory Buildings 7-17

MONTANA

July 22—Billings—Elder Grove School Addition 7-11
July 22—Butte—School Remodeling 7-11
July 22—Butte—Washington School Remodeling 7-11
July 25—Glasgow AFB—Buildings, Utilities 7-2
July 29—Libby—Power & Light Building 6-20
Aug 1—Havre—College Building Additions 7-13
Aug 5—Wolf Point—Clinic 7-11
Aug 8—Helena—Executive Mansion 7-17

WYOMING

July 30—Colter Bay—Apartment Houses, Amphitheater 6-29

ALASKA

July 23—Anchorage—Church 7-17
Aug 6—McKinley Park—Visitor Center, Utilities 7-16
Aug 6—Mt. Eielson—Visitor Center, Utilities 6-28
Aug 14—Fairbanks—Lathrop High School Addition 7-12
Aug 14—Fairbanks—College Grade School 7-12
Aug 15—Bartlett Cove—Resident, Utility Buildings 7-13

ENGINEERING PROJECTS

Bids Must Be In — Date Printed in Pacific Construction Daily

OREGON

July 22—Springfield—Storm Sewer ... 7-17
July 23—Burns AF Station—Electric Power Modifications ... 7-13
July 23—Dallas—Grading, Surfacing, Paving ... 7-13
July 23—McMinnville—Sewer System ... 7-17
July 23—Portland—Clearing, Access Roads ... 7-10
July 23—Redmond—Terminal Additions ... 7-13
July 24—Bend—Bituminous Seal Coat ... 7-10
July 24—Myrtle Point—Fuel Oil Tank ... 7-13
July 24—Portland—Fuse Mountings, Fuses ... 7-16
July 24—Salem—Asphaltic Concrete Pavement ... 7-17
July 25—Portland—Gates, Fittings ... 7-13
July 26—Lebanon—Field Lighting ... 7-13
July 26—Portland—Berth Rehabilitation ... 7-10
July 26—Tillamook—Terminal Addition ... 7-13
July 31—Woodburn—Steam Line ... 7-17
Aug 5—Grass Valley—Reservoir ... 7-12
Aug 5—The Dalles—Street Improvements ... 7-9
Aug 7—Portland—Landscaping ... 7-12
Aug 8—Portland—State Highway Project ... 7-12

WASHINGTON

July 22—Bellevue—Watermain ... 7-13
July 22—Bellingham—Gate Valves ... 7-12
July 22—Chehalis—Concrete Culvert ... 7-9
July 22—Sedro-Woolley—Generator ... 7-10
July 22—Tacoma—Sanitary Sewers ... 7-17
July 22—Waterville—Transmission Line ... 7-11
July 23—McCleary—Sewer Pipe ... 7-13
July 23—Renton—Water Line ... 7-12
July 23—Seattle—Meter Parts ... 7-17
July 23—Seattle—Trucks ... 7-12
July 23—Seattle—Meter ... 7-11
July 23—Seattle—Clearing, Grading ... 7-9
July 23—Tacoma—Ferry Approach Removal ... 7-11
July 23—Wenatchee—Stage Two-Rocky Reach Dam ... 6-21
July 24—McChord AFB—Hangar Repair ... 7-8
July 24—Seattle—Concrete Bridge Girders ... 7-11
July 24—Seattle—Wall Repair ... 7-9
July 24—Seattle—Concrete Paving, Sewers ... 7-13
July 24—Tacoma—Road Extension ... 7-10
July 24—Tacoma—Pipes, Hydrants ... 7-9
July 24—Tacoma—Sewer Work ... 7-13
July 25—Mercer Island—Field Lights ... 7-17
July 30—Ephrata—Canal ... 6-15
July 30—Mead, Pasco—Suspension Insulators ... 7-17
July 30—Olympia—State Highway Projects ... 7-12
July 30—Seattle—Ball Valves ... 7-11
July 31—Okanogan—Cascade Crest Trail ... 7-16
July 31—Seattle—Pumping Plant Expansion, Force Main ... 7-13
Aug 1—Coulee Dam—Water Supply Line ... 7-10
Aug 1—Grant County—Transmission Line ... 7-16
Aug 1—Long Lake Dam—Fencing ... 7-10
Aug 1—Richland—Chemical Plant Transfer Facilities ... 7-11
Aug 1—The Dalles Dam—Communication Line Removal ... 7-13
Aug 2—Paine AFB—Replace Runway ... 7-9
Aug 2—Tacoma—Power Line ... 7-13
Aug 2—Vancouver—Air Compressor Outfit ... 7-13
Aug 5—Quincy—Turbine Pump ... 7-10
Aug 6—Kennewick—Fencing ... 7-17
Aug 7—Seattle—Copper Sulphate ... 7-17
Aug 12—Clarkston—Storm Sewer ... 7-12
Aug 13—Ephrata—Earthwork, Lining, Structures ... 7-11
Aug 13—Ephrata—Drain System ... 7-10
Aug 14—Seattle—Grade Separation ... 7-13
Aug 19—Anacortes—Filter Plant Equipment ... 7-9
Aug 27—Kennewick—Ice-Preventive Heating System ... 7-12
Aug 27—Othello—Earthwork, Structures ... 7-12

IDAHO

July 22—Lewiston—Furnish Asphalt ... 7-16
July 23—Boise—State Highway Projects ... 7-9
July 30—Boise—State Highway Projects ... 7-16
Aug 1—Weiser—Cambridge-Brownlee Road ... 7-11

MONTANA

July 22—Billings—Curb, Gutter ... 7-9
July 22—Great Falls—Water Main, Sanitary Sewer ... 7-16
July 22—Hungry Horse—Wood Baffle Sets ... 7-17
July 22—Missoula—Drains, Sealing, Paving ... 7-11
July 23—Billings—Runway Seal Coating ... 7-16
July 23—Billings—Storm Sewer ... 7-9
July 23—Glendive—Earthwork, Structures for Drains ... 7-16
July 25—Culbertson—Sewage Disposal System ... 7-16
July 26—Helena—State Highway Projects ... 7-9
July 31—Havre—Water System ... 7-16
Aug 15—Helena—Earthwork, Structures ... 7-12

WYOMING

Aug 8—Cody—Outlet Works, Penstock Intake Rehabilitation ... 7-2
Aug 8—Cody—Abutment, Penstock, Intake ... 6-21

UTAH

July 23—Ogden—Earthwork, Pipe Line, Structures ... 7-16
July 23—Salt Lake City—State Highway Projects ... 7-12
July 23—Salt Lake City—Surfacing, Bridges ... 7-2

ALASKA

July 22—Juneau—Bituminous Paving ... 7-9
July 26—Excursion Inlet—Seaplane Facility ... 7-16

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OFFICE BUILDING, RESIDENCE
BIDS CLOSE 2 P. M., AUGUST 5
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed bids for the construction of an office building and a residence at Tieton Ranger Station, Yakima County, Snoqualmie National Forest, Washington, will be received until 2:00 p.m., P.S.T., August 5, 1957, by the Regional Supply Officer, P. O. Box 4137, 729 N.E. Oregon, Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Snoqualmie National Forest, 415 Federal Office Bldg., Seattle, Washington.
7877—7-18

BITUMINOUS OR CEMENT CONCRETE PAVING
BIDS CLOSE 11 A. M., AUGUST 1
Yakima, Washington
NOTICE TO CONTRACTORS

NOTICE is hereby given that sealed bids will be received by the Board of County Commissioners at their office in the County Courthouse at Yakima, Washington, until 11:00 A. M., August 1, 1957, for the letting of one Contract involving the following work:

One Contract—
County Road Project No. 706 for the placing of a Bituminous pavement on a portion of Summitview Avenue with the following principle quantities:

ALTERNATE No. 1—Special Bituminous Pavement Type "C" applied with a traveling cold mix plant preparation of Cement concrete pavement 2.0 miles; Asphaltic Cement RC-3 in place 200 Tons; Mineral Aggregate in place from stockpile which includes mixing and laying 2,600 cu. yds.; and shoulder surfacing in place from stockpile 540 cubic yards.

ALTERNATE No. 2—Preparation of Cement Concrete Pavement 2.0 miles; Asphaltic Type I-1 Asphaltic Concrete Pavement Class B Wearing Course in place which includes all necessary material 4,000 Tons; and shoulder surfacing in place from stockpile 540 cubic yards.

A set of plans and specifications may be purchased from the County Engineers Office in Yakima at $4.00 per contract (No refunds for return of plans and specifications).

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check or cashiers check, payable to the Yakima County Treasurer in an amount equal to five percent (5%) of the amount bid.

The deposit will be forfeited to the County if the successful bidder fails to enter into a contract and furnish a satisfactory performance bond within ten (10) days from date of award.

The Board of County Commissioners expressly reserves the right to reject any and all bids or parts thereof.

HAROLD PURDIN,
County Auditor.
By Lois Mathus,
Deputy County Auditor.

7878—7-18, 25

GRADE SCHOOL BUILDING
BIDS CLOSE 10 A.M., P.S.T., AUGUST 14
Fairbanks, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-317, Grade School, Fairbanks, Alaska. July 8, 1957. College Grade School, Project Aaa. 50-A-317, Fairbanks, 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 August 14, 1957, 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, 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, Third Avenue West and Harrison St., Seattle, Wash.; Mountain Chapter, 219 Benjamin Franklin Hotel, 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: College Grade School, Project Aaa. 50-A-317, Fairbanks, Alaska. Construction of a one story, pipe column with laminated beam and concrete masonry, grade school building containing approximately 20,000 sq. ft. Additive alternates are provided for 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.
5876—7-20, 27; 8-3

SCHOOL ADDITIONS, ALTERATIONS
BIDS CLOSE 10 A.M., P.S.T., AUGUST 14
Fairbanks, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-331, School Additions & Alterations, Fairbanks, Alaska. July 8, 1957. Additions & Alterations to Lathrop High School. Project Aaa. 50-A-331, Fairbanks, 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 August 14, 1957, 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 materials, 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, 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, Third Avenue West and Harrison St., Seattle, Wash.; Mountain Chapter, 219 Benjamin Franklin Hotel, 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, which ever course is in the best interest of the Government. DESCRIPTION: High School Additions and Alterations, Project Aaa 50-A-331, Fairbanks, Alaska. Construction of a 12 classroom second floor addition to the Lathrop High School, including revisions to specified areas in the existing building. 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.
5875—7-20, 27; 8-3

STATE HIGHWAY PROJECTS
BIDS CLOSE 9:30 A.M., JULY 26
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 9:30 a.m. on July 26, 1957. The proposals will be publicly opened and read immediately thereafter.

1. **F 8(10)**—Plant-mix oiling and seal-coat oiling 7.372 miles on the White Sulphur Springs, Harlowton Road in Meagher County, involving about 1,358 tons crushed gravel; 17,877 tons plant mix; 40 hours watering; 50 units rolling; 231,361 gals. asphalt cement, 11,076 gals. liquid asphalt; 30,670 gals. emulsified asphalt; and all L. sum furnish and maintain water plant. Project to be completed in 100 calendar days.
2. **F 157(13)**—Grade, gravel surfacing, bituminous-surface treatment and drain 9.090 miles on the Miles City-Jordan Road in Garfield County, involving about 374,007 cu. yds. excavation; 656 cu. yds. gravel backfill; 13,734 mi. yds. overhaul; 20,032 tons crushed gravel; 113,317 tons uncrushed gravel; 8,240 M gals. watering; 1,359 units rolling; 54,787 gals. liquid asphalt; 54,787

gals. emulsified asphalt; 3,152 lin. ft. corrugated metal pipe culverts; 454 lin. ft. structural plate pipe culverts; 100 lin. ft. relay pipe culverts; 100.0 lin. ft. guard rail; and other items. Project to be completed in 200 calendar days.

3. S-US 19(2) — Grade, gravel surfacing, plant-mix oiling, drain, and construction of a 49.1' steel and concrete bridge on 1.442 miles on the Lewistown-Forest Grove Road in Fergus County, involving about 50,450 cu. yds. excavation; 30 cu. yds. gravel backfill; 255 mi. yds. overhaul; 22,142 tons crushed gravel; 3,548 tons plant mix; 1,229 tons uncrushed gravel; 47,658 gals. asphalt cement; 1,221 M gals. watering; 214 units rolling; 9,438 gals. liquid asphalt; 7,922 gals. emulsified asphalt; 630 lin. ft. corrugated metal pipe culverts; 3,019.1 lin. ft. concrete curb to remove; 3,119.4 lin. ft. new concrete integral curb & gutters; 280 lin. ft. treated timber piles; 176 lin. ft. concrete piles; 163.5 lin. ft. steel beam bridge rail; 19,116 lbs. reinforcing steel; 117.1 cu. yds. concrete; all L sum removal of existing structure & maintaining traffic; and other items. Project to be completed by September 15, 1958.

4. US 370(8) & S 370(10)—Grade, gravel surfacing, plant-mix oiling, seal-coat oiling, and drain 3.672 miles on the North Rouse Avenue-Bozeman section of the Bozeman-Wilsall Road and the Bozeman-Wilsall Road in Gallatin County, involving about 7,391 cu. yds. excavation; 165 cu. yds. riprap; 400 cu. yds. gravel backfill; 8,539 tons plant mix; 44,754 tons crushed gravel; 1,365 M gals. watering; 380 units rolling; 110,521 gals. asphalt cement; 20,413 gals. liquid asphalt; 16,382 gals. emulsified asphalt; 100 lin. ft. relay pipe culverts; 50 hours mechanical tamping; 105 hours blading work; 75 hours scraping work; 337.5 lin. ft. steel guard rail; 4 each drop inlets; 11 each adjust manholes to grade; all L. sum clearing & grubbing; 2,201.1 sq. ft. galvanized metal bin-type retaining wall; and other items. Project to be completed in 180 calendar days.

5. S 9(7)—Reshaping, gravel surfacing, and bituminous surface treatment on 8.840 miles on the Cardwell-Boulder Road in Jefferson County, involving about 80,456 tons crushed gravel; 1,607 M gals. watering; 392 units rolling; 47,095 gals. liquid asphalt; 47,095 gals. emulsified asphalt; 177 hours scraping work; 268 hours blading work; and other items. Project to be completed in 200 calendar days.

6. S 36(7)—Gravel surfacing, bituminous surface treatment, and drain 5.011 miles on the Drummond-Helmville-Blackfoot Canyon Road in Powell County, involving about 11 cu. yds. excavation; 100 cu. yds. gravel backfill; 44,081 tons crushed gravel; 881 M gals. watering; 219 units rolling; 26,429 gals. liquid asphalt; 26,429 gals emulsified asphalt; 46 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; and 4,487.5 lin. ft. steel guard rail. Project to be completed in 100 calendar days.

7. S 96(3)—Grade, gravel surfacing, bituminous surface treatment, drain, and construction of one 50.0' treated timber bridge on 8.067 miles on the Conrad-EastRoad in Pondera County, involving about 175,144 cu. yds. excavation; 100 cu. yds. gravel backfill; 33,470 mi. yds. overhaul; 115,206 tons crushed gravel; 4,920 M gals. watering; 874 units rolling; 43,803 gals. liquid asphalt; 43,803 gals emulsified asphalt; 2,314 lin. ft. corrugated metal pipe culverts; 64 lin. ft. reinforced concrete pipe culverts; 92 lin. ft. relay pipe culverts; all L. sum clearing & grubbing; 23.122 MBM treated timber; 0.778 MBM untreated timber; 560 lin. ft. treated timber piles; 574 lbs. structural steel; all L. sum removal of existing structure and maintaining traffic; and other items. Project to be completed in 200 calendar days.

8. S 226(1)—Grade, gravel surfacing, bituminous surface treatment, and drain 2.938 miles on the Hamilton-East Road in Ravalli County, involving about 142,829 cu. yds. excavation; 4.5 cu. yds. riprap; 175 cu. yds. gravel backfill; 10,936 mi. yds. overhaul; 36,915 tons crushed gravel; 2,860 M gals. watering; 456 units rolling; 16,015 gals. liquid asphalt; 16,015 gals. emulsified asphalt; 974 lin. ft. corrugated metal pipe culverts; 68 lin. ft. structural plate pipe culverts; 2,006 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; all L. sum clearing and grubbing; all L. sum miscellaneous to be removed; and other items. Project to be completed in 180 calendar days.

9. S 249(2)U1—Grade, gravel surfacing, bituminous surface treatment, and drain 6.409 miles on the Starr Route (Browning) Road in Glacier County, involving about 319,589 cu. yds. excavation; 100 cu. yds. gravel backfill; 66,703 mi. yds. overhaul; 84,244 tons crushed gravel; 6,471 M Gals. watering; 1,027 units rolling; 35,168 gals. liquid asphalt; 35,168 gals. emulsified asphalt; 68 lin. ft. corrugated metal pipe culverts; 1,608 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; and other items. Project to be completed in 200 calendar days.

10. S 249(2)U2—Construction of one 100.0' treated timber pile bridge over Cut Bank Creek on the Starr School Route (Browning) Road in Glacier County, involving about 960 cu. yds. unclassified excavation; 44.338 MBM treated timber; 1.486 MBM untreated timber; 1,000 lin. ft. treated timber piles; and 2,152 lbs. structural steel. Project to be completed by May 31, 1958.

11. S 319(5)—Grade, gravel surfacing, road-mix oiling, seal-coat oiling, and drain 1.675 miles on the Pendroy-Conrad Road in Teton County, involving about 21,128 cu. yds. excavation; 100 cu. yds. gravel backfill; 1,570 mi. yds. overhaul; 27,449 tons crushed gravel; 788 M gals. watering; 169 units rolling; 57,693 gals. liquid asphalt; 272 lin. ft. corrugated metal pipe culverts; 176 lin. ft. relay pipe culverts; 1.675 miles processing; 544 sq. yds. processing; and other items. Project to be completed in 150 calendar days.

12. SMP 2589—Crushing and stockpiling ¾" crushed gravel surfacing from eleven setups in Cascade, Judith Basin, Lewis & Clark, Pondera, and Teton counties, involving about 127,500 tons ¾" crushed gravel; and 111,750 ton-miles haul on stockpiled material. Project to be completed by January 31, 1958.

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 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 Missoula.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer
5866—7-13, 20

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A. M., JULY 30
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, July 30, 1957, 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.

Prequalifications 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 3 inclusive.

The improvements for which bids will be received follow:

1. Draining, Grading, Surfacing and Paving with Type I-1 Asphaltic Concrete on 1.718 miles of a Pierce County Road, PORTLAND AVENUE, FAS No. S-1213(1), involving about 11,128 linear feet of Cleaning and Preparing Ditches, 14,764 linear feet of Concrete Pipe, 6,460 cubic yards of Selected Roadway Borrow, 2,150 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 30 tons of Asphalt Cement, 3,890 tons of Asphaltic Concrete, 15,810 linear feet of Asphaltic Concrete Gutter and other items.
2. Constructing Bituminous Treatment Road Mix on 7.437 miles of Thurston County Roads, MARVIN ROAD AND FIR TREE CHAMBERS ROAD, FAS Nos. S-0510(2) and S-0492(1), involving about 425 tons of Asphalt Cement, 6,250 cubic yards of Mineral Aggregate and other items.
3. Surfacing and Constructing Light Bituminous Surface Treatment and Non-Skid Seal Treatment on 1.210 miles of a Wahkiakum County Road, SUNNY SANDS WEST, FAS No. S-0579(3), involving about 2,250 cubic yards of Solid Rock Borrow, 2,000 cubic yards of Sand Borrow, 2,565 cubic yards of Crushed Stone Surfacing, Crushed Cover Stone and Mineral Aggregate, 58 tons of Asphalt Cement and other items.
4. Surfacing, Constructing Bituminous Surface Treatment Plant Mix and Stockpiling Crushed Stone Surfacing and Mineral Aggregates on 6.180 miles of Primary State Highway No. 9 in Clallam and Jefferson Counties, BLYN EAST, ET AL, a State Project, involving about 7,855 tons of Screened Gravel Surfacing, 31 tons of Asphalt Cement, 13,825 tons of Bituminous Plant Mix, 53,000 tons of Crushed Stone Surfacing, Mineral Aggregate and Reject Material and other items.
5. Draining, Surfacing, Constructing Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 3,292 miles of State Highways Nos. 13, 13-A and 9 in Grays Harbor County "J" STREET IN COSMOPOLIS TO SURTIS STREET IN ABERDEEN, ET AD, a State Project, involving about 5,965 cubic yards of Common Excavation, 7,490 tons of Selected Roadway Borrow, 6,330 tons of Crushed Stone Surfacing, Gravel Surfacing and Ballast, 73 tons of Asphalt Cement, 420 cubic yards of Crushed Cover Stone and Mineral Aggregate, 10,625 tons of Asphaltic Concrete, 1,285 tons of CTB Aggregate, 410 barrels of Portland Cement, 200 linear feet of Asphaltic Shoulder Curb and other items.
6. Surfacing with Light Bituminous Surface Treatment and Paving with Type I-1 Asphaltic Concrete on 4.365 miles of Primary State Highway No. 1 in Pierce County, PONDERS TO LAKEVIEW AND PUYALLUP RIVER TO ARDENA ROAD, a State Project, involving about 2,940 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 121 tons of Asphalt Cement, 14,400 tons of Asphaltic Concrete, 200 linear feet of Precast Traffic Curb and other items.
7. Constructing Two Reinforced Concrete Flat Slab Bridges on 0.046 mile of Secondary State Highway No. 14-A in Mason County, CRANBERRY CREEK AND DEER CREEK BRIDGES, a State Project, involving about 2,270 cubic yards of Common Excavation, 1,300 cubic yards of Selected Roadway Borrow, 360 cubic yards of Crushed Stone Surfacing, 180 cubic yards of Loose Riprap, 84 cubic yards of Concrete, 18,800 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructures (about 224 cubic yards of Concrete, 47,400 pounds of Steel Reinforcing Bars and 290 linear feet of Reinforced Concrete Bridge Railing), 2,040

linear feet of Treated Timber Piling and other items.

8. Clearing, Draining, Grading, Surfacing with Light Bituminous Surface Treatment and Constructing a Reinforced Concrete Slab Bridge on 0.232 mile of Primary State Highway No. 5 in Lewis County, RAINY CREEK BRIDGE AND APPROACHES, a State Project, involving about 10,170 cubic yards of Common Excavation., 2,400 cubic yards of Selected Roadway Borrow, 1,260 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 8 tons of Asphalt Cement, 117 linear feet of Concrete Pipe, 1,620 linear feet of Wire Fence, 22 Guide Posts, 187 cubic yards of Concrete, 34,240 pounds of Steel Reinforcing Bars, 85 linear feet of Special Beam Guard Rail and other items.
9. Constructing a Reinforced Concrete Box Culvert and Repairing Reinforced Concrete Bridge Columns on Primary State Highway No. 3 in Stevens County, CITY OF CHEWELAH, a State Project, involving about 565 cubic yards of Structure Excavation, 100 cubic yards of Crushed Stone Surfacing, 40 tons of Bituminous Mix, 100 linear feet of Cement Concrete Curb, 35 linear feet of Steel Pipe, 50 square yards of Cement Concrete Sidewalk, 100 cubic yards of Loose Riprap, 165 cubic yards of Concrete, 38,500 pounds of Steel Reinforcing Bars, 57 linear feet of Steel Pipe Rail, a lump sum bid for Repairing Reinforced Concrete Bridge Columns and other items.
10. Stockpiling Maintenance Rock, Sand and Mineral Aggregates on Primary State Highway No. 5 in Pierce and King Counties, BLACK DIAMOND VICINITY, ET AL, a State Project, involving about 34,300 tons of Crushed Materials and other items.
11. Installing an Illuminating System on Primary State Highway No. 5 in Yakima County, RIMROCK TUNNEL, a State Project, involving a lump sum bid for Installation of Illumination System.
12. Installing Four Illumination Systems on Primary State Highway No. 3 in Benton and Franklin Counties, RICHLAND WYE, ET AL, a State Project, involving 4 lump sum bids for Installation of Illumintion Systems.
13. Constructing a Reinforced Concrete Addition to the District Office Building in Thurston County, DISTRICT OFFICE BUILDING IN TUMWATER, a State Project, involving a base bid for the Entire Improvement.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5870—7-13, 20

EARTHWORK, CONCRETE LINING, STRUCTURES

BIDS CLOSE AUGUST 27

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4943) will be received at Ephrata, Washington, until August 27, 1957, for furnishing labor and materials for Earthwork, Concrete lining and Structures, Wahluke Branch Canal, Station 171+13 to Station 333+20, Columbia Basin Project, Washington. Location near Othello, Washington. Principal items are 444,000 cu. yds. excavation; 9,930 cu. yds. concrete in canal lining; 161 cu. yds. concrete in structures; and other work. Completion time 330 days. For particulars, address Bureau of Reclamatio,n Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5874—7-20

SWIMMING POOL

BIDS CLOSE 3 P. M., July 29

Chehalis, Washington

NOTICE TO CONTRACTORS

Separate sealed bids for General, Mechanical and Electrical Work will be received by the City Commissioners of the City of Chehalis at their office at the City Hall, Chehalis, Washington, at 3:00 P. M. on July 29, 1957, for the construction of a Natatorium at Chehalis, Washington; and will then and there be opened and publicly read aloud. Bids received after the time fixed for opening will not be considered.

Plans, specifications and form of Contract Documents may be examined at the office of the City Clerk, Chehalis, Washington; at the office of C. W. Fairthfull and J. W. Wilson, Architect, Masonic Building, Centralia, Washington. Plans may be obtained upon the deposit of Fifteen Dollars ($15.00).

The full amount of the deposit for one set of documents will be returned to each actual bidder within a reasonable time after the receipt of the bids and return of the documents.

Each bid shall be accompanied by a certified check or bid bond payable to the City of Chehalis in an amount of not less than five percent (5%) of the amount of the bid.

The City Commissioners of Chehalis reserve the right to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the hour set for the opening thereof, or before award of contract, unless said award is delayed for a period exceeding thirty (30) days.

By Order of the City Commissioners.
Margaret McChord,
City Clerk.

5861—7-13, 20

RANGER STATION RESIDENCE

BIDS CLOSE 2 P. M., AUGUST 1

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids for construction of Lake Wenatchee Ranger Station Residence, Chelan County, Wenatchee National Forest, Washington, will be received until 2:00 p. m., P.S.T., August 1, 1957, by the Regional Supply Officer, P. O. Box 4137, 729 N.E. Oregon, Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Wenatchee, Washington.

5873—7-16

TRAIL CONSTRUCTION

BIDS CLOSE 3 P. M., JULY 31

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids for construction of approx. 3 miles of Cascade Crest Trail, Okangan County, Okanogan National Forest, Washington, will be received until 3:00 p. m., P.S.T., July 31, 1957, by the Regional Supply Officer, P. O. Box 4137, 729 N.E. Oregon, Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Okanogan, Washington.

5872—7-16

NOTICE TO CONTRACTORS
DRAPERIES

BIDS CLOSE 2 P.M., AUGUST 8

Seattle, Washington

Bids will be received until 2 P.M. Thursday, August 8, by South Central School District 406, 14208 42nd Avenue South, Seattle 88, for draperies for nine rooms in Southgate Elementary School. Specifications and bid forms will be sent to those calling Logan 2535, or may be obtained at the District Office.

Frank D. Horsfall,
Business Manager.

5871—7-17, 24, 31

ELEMENTARY SCHOOL

BIDS CLOSE 3 P.M., JULY 23

Metaline Falls, Washington

NOTICE TO CONTRACTORS

1. **NOTICE TO CONTRACTORS**
Sealed bids will be received by Metaline Falls Consolidated Schools, District No. 57, at the office of the Architects, McClure & Adkison, 707 Sherwood Building, Spokane, Washington, until 3:00 P. M., P.S.T., July 23, 1957, for
(a) General Contract,
(b) Mechanical Contract, and
(c) Electrical Contract,
separately, for the construction of an Elementary School, Metaline Falls Consolidated Schools, Metaline Falls, 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.

2. **BID DOCUMENTS**
Specifications, including bid and contract documents, and drawings, may be examined at the office of the Architect, at the Associated General Contractors of America, Eastern Washington Builders Chapter, Spokane Construction Council, Spokane, Washington. Bonafide bidders may obtain one set each of General, Mechanical and Electrical plans and specifications at the Architect's office upon deposit of a check payable to the Architect in the amount of $25.00 for each set of General plans and specifications and $15.00 for each set of Mechanical or Electrical plans and specifications. Should a bidder wish additional sets or parts of sets, he may obtain them by paying the the cost of reproduction.

3. **REFUND 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. Planholders who do not submit a bonafide bid and do not return the documents at least 10 days before the time set for opening bids will forfeit the full amount of their deposit.

4. **RIGHT TO REJECT BIDS**
The Owner reserves the right to reject any and all bids and to waive informalities.

By order of:
METALINE FALLS CONSOLIDATED SCHOOLS DISTRICT No. 57,
Metaline Falls, Washington
By Loren G. Billings, Chairman.

5859—7-5, 10, 17

RESIDENCES

BIDS CLOSE 2 P.M., JULY 31

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids for construction of two Darrington Ranger Station Residences, Snohomish County, Mt. Baker National Forest, Washington, will be received until 2:00 p.m., PST, July 31, 1957, by the Regional Supply Officer, P.O. Box 4137, 729 NE Oregon, Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Bellingham, Washington.

5868—7-12

STATE HIGHWAY PROJECT

BIDS CLOSE 9 A.M., AUGUST 8

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following project will be received by the Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland, Oregon, at 9:00 a.m., on Thursday, August 8, 1957. Additional projects will be advertised later.

MARION-LINN COUNTIES: North Jefferson Junction-Santiam Junction Section of the Pacific Highway. 16 structures. Federal Aid Interstate project. Construct 16 reinforced concrete deck girder bridges. Alternate bids will be received for construction of the structures by the pretensioned-precast method of construction and by the conventional poured-in-place method. Involves following approx. quantities: 900 cu. yds. struc. excavation; furnish 11,000 lin. ft. concrete piling; drive 500 only concrete piles; 450 lin. ft. 8" metal drain pipe; 7,000 cu. yds. general excavation; for the pretensioned alternate, the following: 3,100 cu. yds. Class "A" Concrete; 1,140 cu. yds. Class "A-A" Concrete; 663,000 lbs. metal reinf.; and 103,000 lbs. prestressed reinf.; or for the poured-in-place alternate, the following: 4,240 cu. yds. Class "A" Concrete; and 1,-156,000 lbs. metal reinforcement.

THE MINIMUM HOURLY WAGE RATES TO BE PAID TO LABOR EMPLOYED ON THE ABOVE ADVERTISED FEDERAL INTERSTATE PROJECT HAVE BEEN PREDETERMINED BY THE SECRETARY OF LABOR AND ARE AS SET FORTH IN THE SPECIAL PROVISION APPLICABLE TO FEDERAL INTERSTATE PROJECTS.

Prequalification of bidders will be re-

quired 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.

H. B. Glaisyer, Secretary
OREGON STATE HIGHWAY COMMISSION
5869—7-12

SCHOOL ADDITION
BIDS CLOSE 1:30 P. M., JULY 26
Opportunity, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Secretary of the Central Valley School District No. 356, Opportunity, Washington, at the offices of the School District, North 607 Pines, on or before 1:30 P. M., P.S.T., Friday, July 26, 1957, for the construction of an addition to McDonald Elementary School consisting of 6 classrooms 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:

General (includes Mechanical and Electrical).

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 $25.00 per set for general and $15.00 for electrical and mechanical.

The set of plans and specifications will be on file at the following places:

Construction Council, W. 933 3rd Ave., Spokane, Washington.
AGC Builders' Chapter, N. 1207 Washington St., Spokane.
Associated General Contractors, 215 W. Harrison St., Seattle 99, Wn.
Builders' Exchange Cooperative, 317 Builders' Exchange Bldg., Portland 4, Oregon.
Plan Bureau, 2413 Western Ave., Seattle 1, Washington.

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.

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 largest bid, made payable to the Central Valley School District No. 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.

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 No. 356, North 607 Pines, Opportunity, Wash.
Carl G. Lawson, Secretary.
5867—7-11, 12, 13

BITUMINOUS PAVING
BIDS CLOSE 11 A.M., JULY 22
Juneau, Alaska
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, Region 10. Date: June 25, 1957, Juneau, Alaska. SEALED BIDS, in single copy, for furnishing all labor, equipment, and materials and performing all Project No. F-021-2(1), Territory of Alaska, work for the Sterling Highway, Section B2, described herein will be received until 11:00 a.m., July 22, 1957, in Room 311, Federal Building, Juneau, Alaska, and then publicly opened. This project is for bituminous paving consisting of unclassified excavation —1,000 cu. yds.; borrow, case 1—60,000 cu. yds.; overhaul of borrow—120,000 cu. yd. miles; finishing previously constructed roadbed—27 miles; water—5,500 m. gallons; crushed aggregate base—94,000 tons; asphalt, grade MC-O, prime coat—550 tons; cover aggregate, grading C, type 3, seal coat—500 tons; asphalt, grade RC-3, seal coat—48 tons; hot bituminous concrete pavement—46,000 tons; and asphalt, grade RC-3—2,400 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 District Engineer, Bureau of Public Roads, Anchorage, Alaska. Bid guarantee shall be in the amount not less than 5% of the total amount bid and will be required with each bid. The need of progress payments, where progress payments may legally be made, will not be treated as a handicap in awarding a contract.

E. H. Swick
Regional Engineer
5862—7-13

EARTHWORK, STRUCTURES
Helena, Montana
BIDS CLOSE AUGUST 15
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4938) will be received at Helena, Montana, until August 15, 1957, for furnishing labor and materials for earthwork and structures for Helena Valley Canal, Station 626+63 to Station 1842+69, Helena-Great Falls Division, Montana, Missouri River Basin Project. Location near Helena, Montana. Principal items are 506,000 cu. yds. excavation; 113,000 cu. yds. earth lining for canal; 2,800 cu. yds. concrete; 4,400 lin. ft. concrete culvert pipe, 18- to 60-inch; and other work. Completion time 560 days. For particulars, address Bureau of Reclamation, P. O. Box 551, Helena, Montana; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5858—7-13

ABUTMENT, PENSTOCK INTAKES
BIDS CLOSE AUGUST 8
Cody, Wyoming
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4936) will be received at Cody, Wyoming, until August 8, 1957, for furnishing labor and materials for left Abutment Outlet Works and Rehabilitation of Penstock Intakes, Shoshone Project, Wyoming. Location near Cody, Wyoming. Principal items are 4,900 cu. yds. excavation; 1,200 cu. yds. concrete; and other work. The work is divided into 2 schedules. Completion time 700 days. For particulars, address Bureau of Reclamation, P. O. Box 839, Cody, Wyoming; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5852—7-6

ZOO BUILDING
BIDS CLOSE 2 P.M., AUGUST 1
Portland, Oregon
NOTICE TO CONTRACTORS

Inviting Proposals for Contract Group 9—Primate (Monkey) House, Zoological Gardens—Hoyt Park, Portland, Oregon.

Sealed proposals will be received at the office of the Purchasing Agent, of the City of Portland, Oregon, Room 208 City Hall, until 2:00 P.M. (Pacific Standard Time) Thursday, August 1, 1957, for the construction of Contract Group 9 as a part of Portland City Zoological Gardens in Hoyt Park, for the Bureau of Parks, in accordance with plans and specifications on file in the Bureau of Purchases, Room 208 City Hall.

One set of drawings and specifications for the general contract may be obtained by prime bidders only from the Bureau of Purchases, Room 208 City Hall, upon the deposit of Forty Dollars ($40.00). This deposit will be refunded to actual bidders upon return of the documents in good condition within ten days after the bid opening but to non-bidders only if returned prior to the bid opening.

The drawings, specifications and forms of contract may be examined at the Bureau of Purchases and at the office of the Architect.

No proposal or bid will be considered unless accompanied by a check payable to the order of the City of Portland, Oregon, certified by a responsible bank or a bid bond, for an amount equal to ten (10) per cent of the aggregate amount of the proposal, to be forfeited as fixed and liquidated damages, should the bidder neglect or refuse to enter into contract, in the event said contract is awarded to him.

Attention is called to legal requirements governing public bidding, as noted in the specifications.

The right to reject any and all bids is hereby reserved.

LEONARD W. RAYNER
Purchasing Agent
City of Portland, Oregon
5851—6-29, 7-13

CHLORINATION EQUIPMENT
BIDS CLOSE AUGUST 22
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4939) will be received at Denver, Colorado, until August 22, 1957, for furnishing chlorination equipment, suitable for flow variations of 225- to 53,100 gpm at two stations, 200- to 10,800 gpm at one station, and 1,440- to 4,320 gpm at one station, with dosages at all stations varying from 1 to 2 ppm for Ventura River Project, California. Delivery is desired within 270 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.
5864—CNB 7-13

DIVERSION DAM AND CANAL
BIDS CLOSE AUGUST 15
Oak View, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4937) will be received at Oak View, California, until August 15, 1957, for furnishing labor and materials for Robles Diversion Dam and Robles-Casitas Diversion Canal, Ventura River Project, California. Location near Ventura, California. Principal items are 402,000 cu. yds. excavation; 12,200 cu. yds. concrete; furnishing and installing 7 radial gates; and other work. Completion time 575 days. For particulars, address Bureau of Reclamation, Post Office Box 97, Oak View, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
5857—7-13

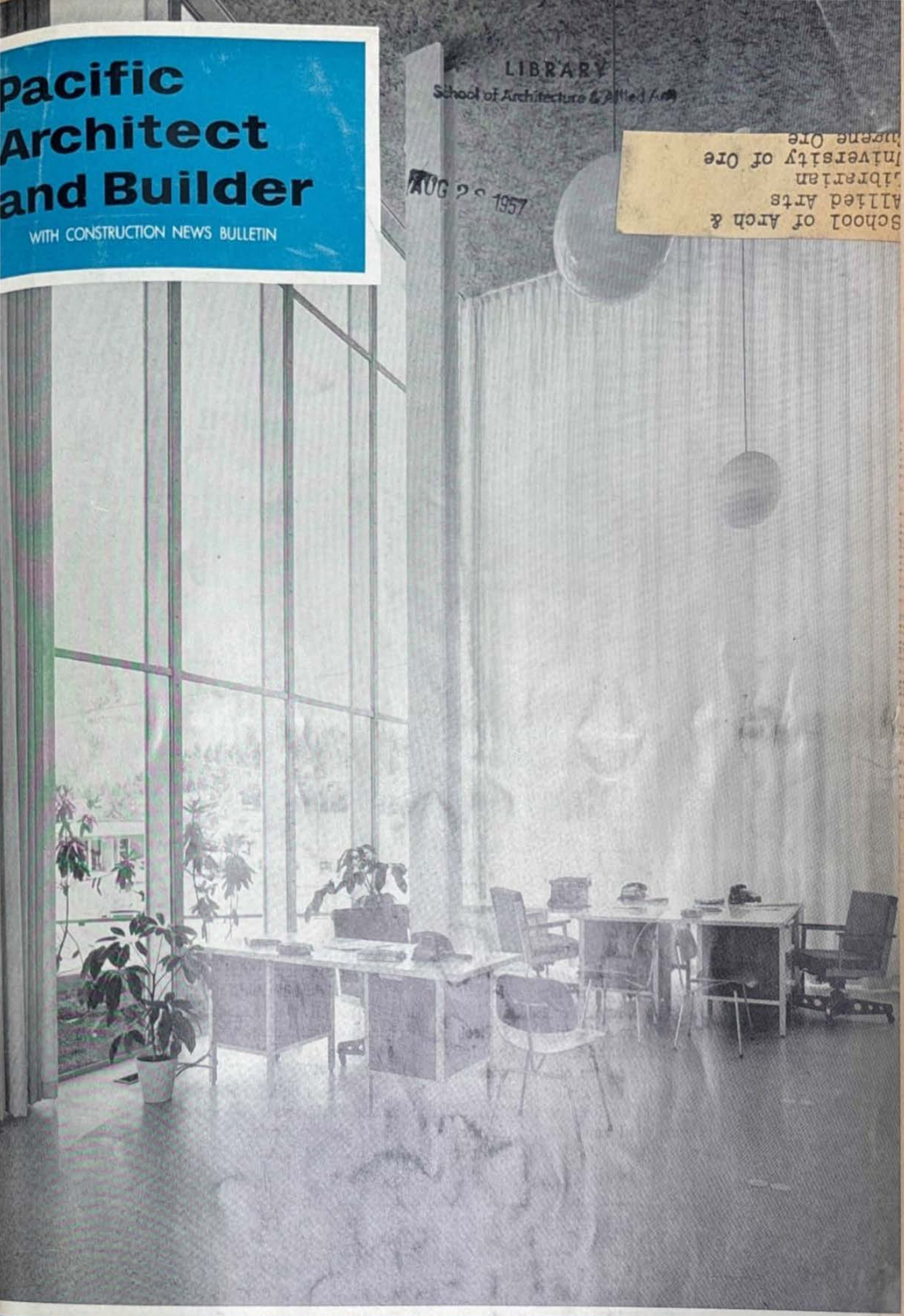
CANAL ENLARGEMENT
BIDS CLOSE JULY 30
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4928) will be received at Ephrata, Washington, until July 30, 1957, for furnishing labor and materials for Potholes East Canal Enlargement, Sta. 290+40 to Sta. 376+32 and Sta. 770+00 to Sta. 1157+02, Columbia Basin Project, Washington. Location near Othello, Washington. Principal items are 1,230,000 cu. yds. excavation; 106,000 cu. yds. compacted earth lining; 145,000 mile cu. yds. overhaul; 80 cu. yds. concrete in structures; 47 M.b.m. timber in bridges; and other work. Completion time 135 and 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.
5840—6-29.

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

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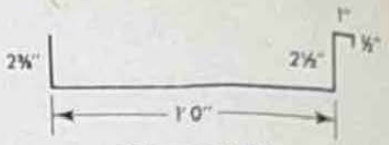


An architect's sabbatical leave in Italy
A new century of architecture—Hiroshi
Building methods: Post-jolted job in Cairo

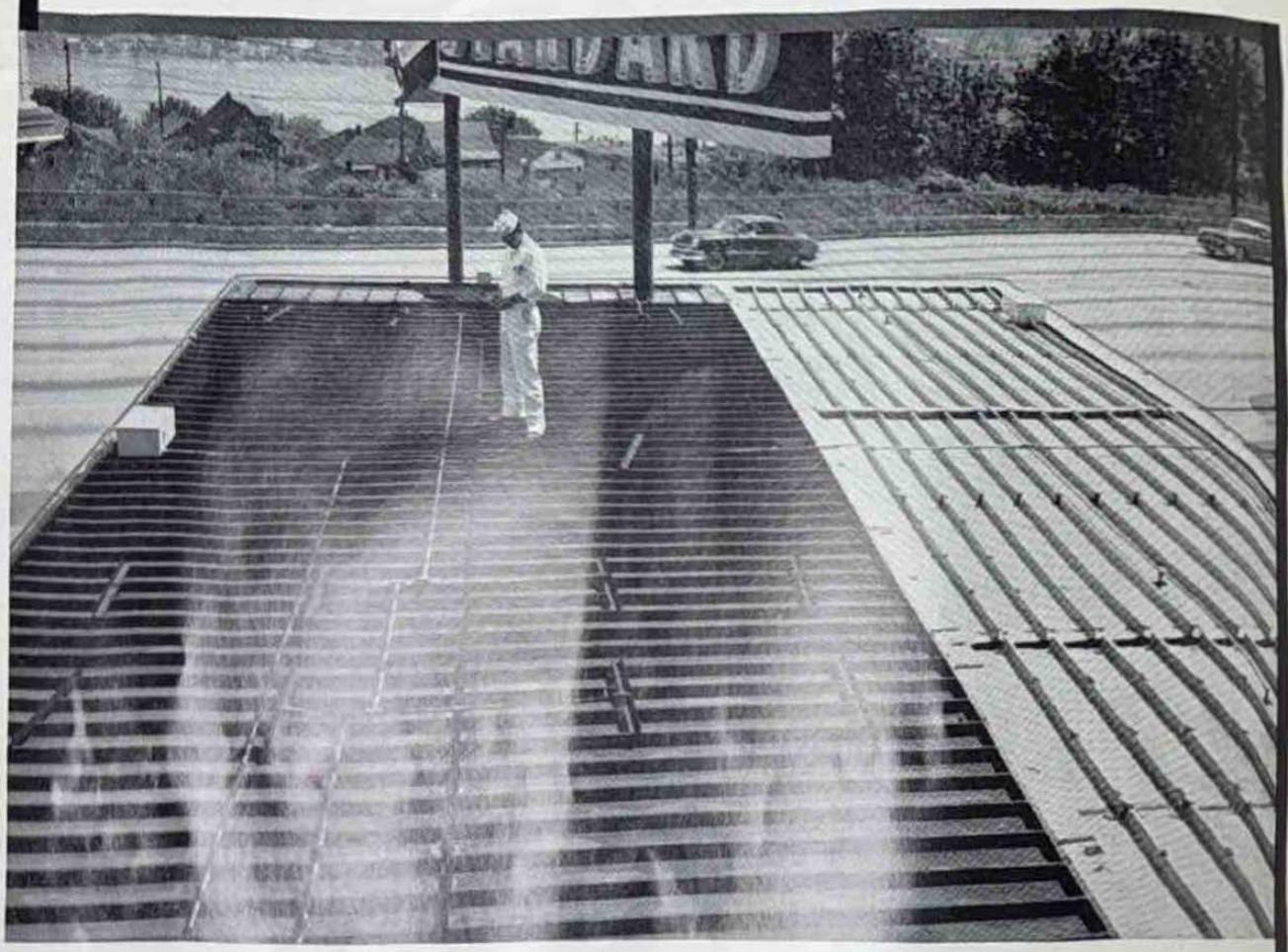
AUGUST 1957

YODER

In addition to press brake fabrication described below, Fentron Industries often use the Yoder (continuous) method in which roof sections are made to any length and standing seams are crimped together for greater strength.



PRESS BRAKE



Steel roof decking...durable, strong and economical

Fentron Industries of Seattle, Washington, has found USS Steel Sheets ideal for low-cost and reliable roof deck construction. The service station canopy roof above, formed and installed by Fentron, is fabricated from 18-gauge USS Sheets by the press brake method and plug-welded every 18 inches. Sections are one-foot wide in nine-foot spans with two-and-one-half inch standing seams that interlock on installation; leak-proof against wind and water. This roof decking has withstood test loads of 55 lbs. per sq. foot, without distress . . . good overhead insurance under the snow loads in Washington winters.

Steel roof decking is durable, strong and costs less to install. Other materials require more weight, additional construction time and greater cost to equal the strength and carrying capacity of steel.

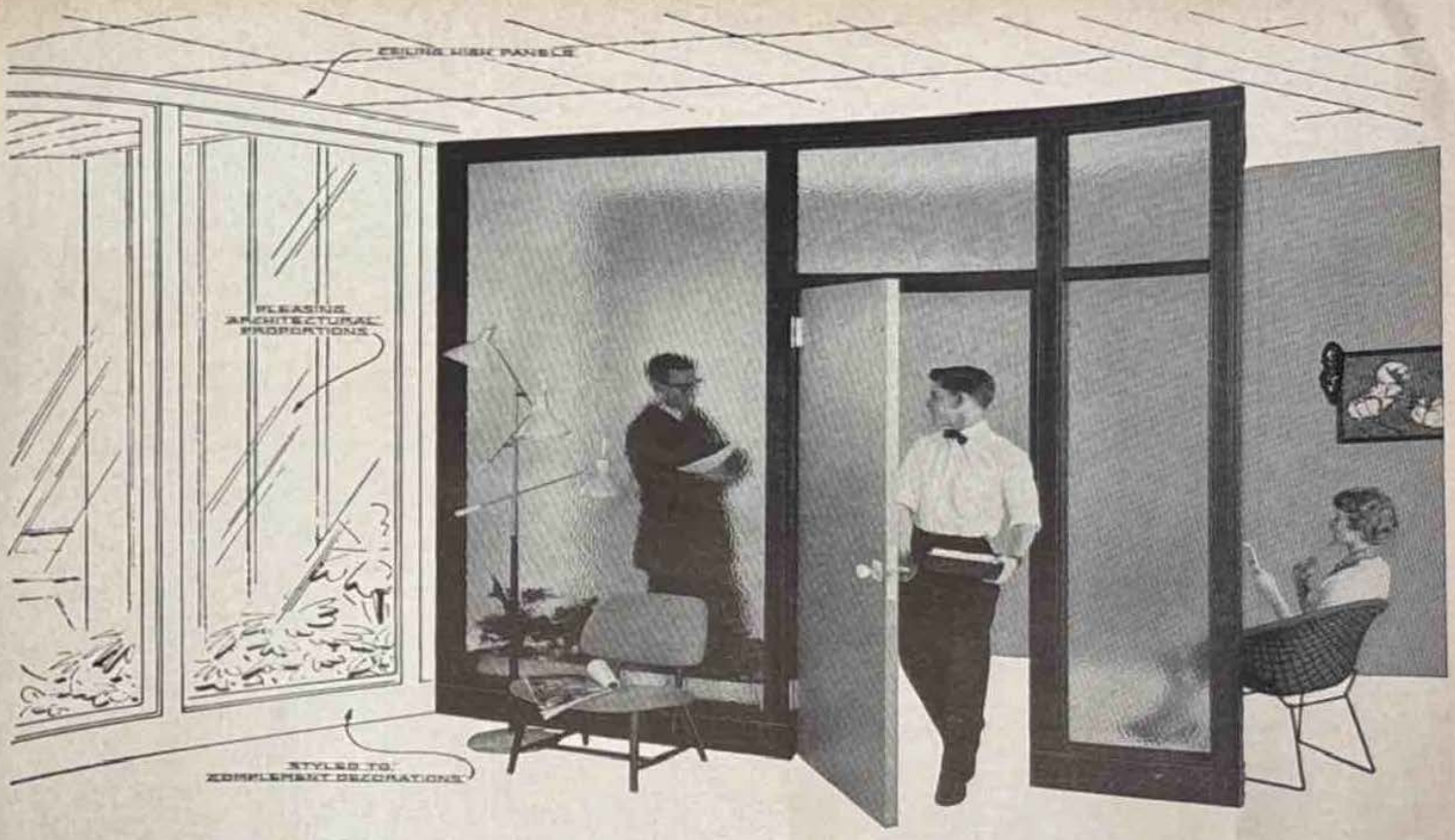
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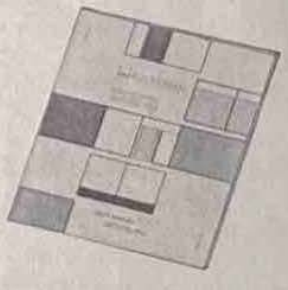
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publicity in new light

In this day of high-powered publicity, it is refreshing to work with a representative of that field who has always done a straight-forward, honest job. We think it is significant that a counsel who has represented an architectural firm, a mosaic muralist and a sliding glass door manufacturer among others should win the first award in publicity in the 11th annual Frances Holmes Achievement presentation made by the Los Angeles Advertising Women and sponsored for entrants throughout the 11 western states, British Columbia and Hawaii. And so it is with regret that we learn of Elaine K. Sewell's leaving southern California next month to do graduate work at Michigan State University's School of Journalism. We wish her well and know that she will make a valuable contribution to the teaching of public relations, which she intends to pursue upon receiving her MA in communication arts.

rain in spain hits coast

Belonging to that legion of national AIA conventioneers who went to New York City minus tickets for "My Fair Lady" (we settled for "Most Happy Fella"), we'll admit that the publicity photo of Anne Rogers and Brian Aherne of the cast playing the West Coast really caught our eye. To justify our conscience in using it, here's the scoop: the road production was the first to use Ward Leonard's new portable autotransformer type dimmer boards which "effect important power savings over the widely used resistance dimmers and, in addition, simplify and speed up wiring at each location."





when in rome

Seattle architect Fred Bassetti who writes about his sabbatical leave in Italy in this issue (p. 19) was scheduled to return to the Northwest as we go to press. He spent the year developing a building program in four cities and supervising two apartment house projects in Rome, but admits that "also time-consuming and rewarding has been an investigation into the subtleties of Italian food and drink, the delights of bathing resorts along the Tyrrhenian Sea and a careful study of Bikini bathing suits!"

Among the random photos received from Italy are the two shown here: a race track at Monza near Milan and Nervi's auditorium for the 1960 Olympics now going up in Rome.



bow down to washington?

Reporting his impressions of the University of Mexico in Mexico City in a recent issue of the Seattle Times, columnist Byron Fish made a couple of pointed observations about architecture. "A Seattleite," he declared, "should try to keep his thoughts from the University of Washington where millions of dollars in new construction also have been spent—most of it in a thoroughly uncreative way on a phony Gothic style. The style never had anything to do with the region, but 'consistency' has doomed Washington to becoming more and more a monument to architectural sterility."

Pacific Architect and Builder

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THE COVER

Bellevue Branch, Washington State Bank, Bellevue, Wash. (p. 26). Mithun & Nesland, Ridenour & Cochran Associates, Architects; Charles R. Pearson photo.

Upturn noted in five-state building volume for July

Building volume took an encouraging upswing during July, climbing to a total of $212,969,959 for the five western states, a good $16¾ million higher than June. California recorded a $10¼ million increase; Washington, $4½ million; and Oregon, $2½ million. Dollar volume in Idaho and Montana dropped slightly from the June total.

Compared to July 1956, the dollar volume was down $47¼ million. Oregon and Idaho recorded slight increases, while totals in the three other states were below last year.

Dollar volume of building permits issued during the first seven months of this year in the five-state area totals $1,448,097,915. The following tabulation by states compares the January through July total with last year's volume at this point.

	Jan.-July 1957	Jan.-July 1956
California	$1,184,628,080	$1,279,265,656
Oregon	72,388,890	87,710,253
Washington	161,814,100	189,022,726
Montana	15,501,512	18,508,825
Idaho	13,765,333	14,758,231

The monthly breakdown of building permits issued by several major agencies in the area shows a considerably brighter housing picture in Seattle and King County where the dollar volume for all types of housing units was up over July of 1956 by nearly $2½ million and $1¾ million respectively. Portland's July total for housing units was almost the same as last year; Tacoma and Sacramento County dropped slightly; Orange County and Los Angeles County showed considerable decreases.

Following is the breakdown of building permits issued for new buildings and additions by several of the major agencies during July. (First number in each category refers to number of permits, not number of units.)

	DWELLING	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	59 ($ 971,985)	14 ($ 315,775)	2 ($ 855,635)
King Co.	542 (5,390,345)	51 (670,750)	9 (189,500)
Seattle	616 (4,541,590)	195 (3,105,580)	3 (784,900)
Tacoma	127 (539,770)	49 (582,750)	1 (1,000)
Los Angeles Co.	1819 (12,667,627)	354 (5,438,845)	25 (1,468,390)
Orange Co.	398 (4,781,741)	41 (519,284)	3 (62,000)
Sacramento Co.	469 (3,742,942)	72 (345,735)	8 (2,217,347)

Building Permit Totals for 116 Western Agencies for July 1957

CALIFORNIA	July 1957	June 1957	July 1956
Alameda County	$ 1,792,200	$ 3,976,200	$ 2,237,136
Anaheim	1,167,523	2,841,700	4,404,014
Bakersfield	571,820	365,618	6,393,481
Burbank	829,394	1,229,820	713,595
Contra Costa County	2,450,653	2,462,832	3,834,744
Fresno	6,209,446	1,479,088	930,255
Fullerton	1,449,180	1,403,931	1,527,956
Glendale	1,030,755	1,346,350	1,873,762
Inglewood	753,074	2,474,628	1,131,931
Long Beach	3,420,295	2,902,270	4,233,720
Los Angeles	42,148,490	49,346,194	47,317,341
Los Angeles County	20,779,129	24,775,672	29,985,673
Oakland	4,233,857	4,623,660	3,176,980
Ontario	581,306	449,577	258,245
Orange County	5,624,514	3,318,652	7,364,900
Palo Alto	2,280,437	775,380	1,550,628
Pasadena	1,567,083	1,614,588	4,081,640
Pomona	2,761,165	1,975,487	1,264,388
Richmond	418,100	716,347	1,051,987
Riverside	646,352	904,602	1,599,565
Sacramento	1,848,315	1,588,884	4,447,336
Sacramento County	6,479,712	7,588,095	5,666,158
San Bernardino	1,058,321	2,329,135	1,162,676
San Bernardino County	21,986,737	6,144,921	30,699,309
San Diego	7,443,067	10,198,376	7,572,778
San Diego County	4,992,400	5,333,300	4,646,850
San Francisco	8,838,234	4,547,392	6,050,207
San Jose	5,391,345	4,222,050	9,098,500
San Mateo	922,080	581,389	672,020
San Mateo County	1,752,912	1,398,567	1,416,765
Santa Ana	1,458,834	1,595,201	3,496,542
Santa Monica	897,300	1,564,789	1,411,102
Stockton	1,952,428	651,101	1,339,735
Sunnyvale	1,675,125	1,853,155	1,623,445
Torrance	1,819,471	684,377	4,921,784
West Covina	722,297	546,613	6,186,835
TOTAL	$169,953,351	$159,610,141	$215,366,983

OREGON	July 1957	June 1957	July 1956
Albany	$ 80,475	$ 100,900	$ 79,970
Astoria	58,518	43,860	33,118
Baker	67,080	154,595	13,150
Bend	482,525	109,991	160,450
Coos Bay	138,850	16,445	54,425
Corvallis	343,385	256,791	490,580
Eugene	480,383	901,595	808,365
Grants Pass	108,500	99,695	178,065
Gresham	308,781	3,500	53,700
Hillsboro	167,366	67,825	140,595
Klamath Falls	148,325	144,656	157,127
LaGrande	41,045	29,639	42,800
Lane County	930,057	715,533	702,861
Medford	218,279	250,700	335,982
Multnomah County	3,373,328	2,048,530	4,481,681
North Bend	48,359	72,230	48,751
Oregon City	16,061	56,545	40,020
Pendleton	139,150	77,135	265,300
Portland	4,377,650	4,559,630	3,241,595
Roseburg	610,331	44,530	126,505
Salem	161,965	250,274	518,075
Springfield	212,430	17,965	90,585
The Dalles	72,800	54,600	85,648
TOTAL	$ 12,585,643	$ 10,077,164	$ 12,149,348

WASHINGTON	July 1957	June 1957	July 1956
Aberdeen	$ 92,601	$ 91,636	$ 516,057
Anacortes	26,000	48,770	133,644
Auburn	266,400	106,500	137,420
Bellingham	1,111,803	438,836	377,118
Bremerton	190,565	214,185	167,760
Centralia	73,796	49,507	92,662
Chehalis	17,124	123,081	20,331
Clarkston	151,425	66,690	34,894
Ellensburg	146,977	18,708	37,400
Ephrata	28,670	79,567	64,950
Everett	315,840	405,704	307,309
Kelso	32,550	56,100	48,500
Kennewick	55,360	118,985	81,180
King County	6,308,640	5,423,930	4,263,990
Kirkland	113,720	14,406	63,825
Longview	427,826	224,946	234,837
Moses Lake	88,749	209,833	259,332
Olympia	122,950	361,270	128,408
Pasco	55,225	179,928	52,835
Pierce County	1,327,554	1,124,950	2,129,200
Port Angeles	37,550	61,250	52,900
Puyallup	89,550	165,825	78,250
Ritzville	4,200	Nil	22,000
Seattle	8,571,045	6,807,941	6,275,770
Shelton	197,200	18,300	102,150
Spokane	2,063,637	1,423,023	4,347,577
Spokane County	1,175,743	1,274,813	1,738,026
Sumner	39,050	387,600	4,200
Tacoma	1,431,747	1,984,725	4,366,625
Vancouver	452,972	501,156	464,461
Walla Walla	94,137	83,295	240,855
Wenatchee	413,211	162,213	197,410
Yakima	520,307	272,864	683,409
TOTAL	$ 26,041,119	$ 21,809,557	$ 27,724,485

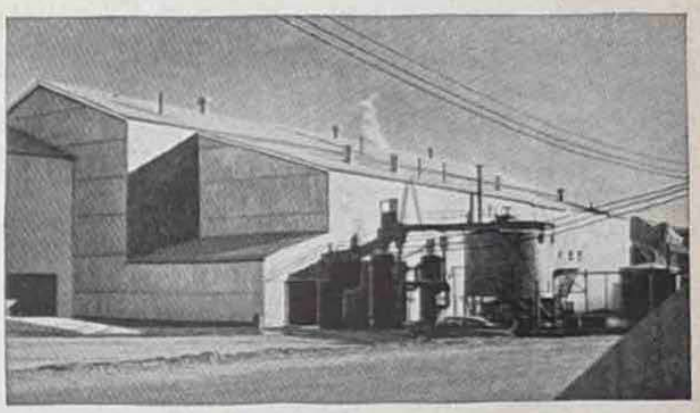
MONTANA	July 1957	June 1957	July 1956
Billings	$ 186,700	$ 552,400	$ 636,300
Bozeman	38,900	28,675	279,300
Butte	101,542	331,725	72,759
Glasgow	404,465	306,300	89,150
Glendive	167,700	39,600	47,325
Great Falls	606,231	649,223	1,117,605
Helena	325,474	213,030	388,765
Kalispell	93,700	98,350	400,200
Lewistown	74,145	19,500	52,400
Livingston	46,775	41,355	30,860
Miles City	23,460	57,000	72,164
Missoula	50,700	17,500	41,500
TOTAL	$ 2,119,792	$ 2,354,658	$ 3,228,328

IDAHO	July 1957	June 1957	July 1956
Boise	$ 466,564	$ 571,517	$ 377,527
Caldwell	35,610	169,555	81,925
Coeur d'Alene	68,350	37,920	111,290
Idaho Falls	475,275	1,002,600	455,144
Jerome	9,885	9,925	19,200
Lewiston	107,837	88,170	90,151
Nampa	152,590	34,515	171,875
Payette	2,975	18,300	7,850
Pocatello	676,968	168,312	177,724
Sandpoint	41,050	50,200	13,650
St. Maries	1,000	2,650	2,700
Twin Falls	231,950	180,300	203,350
TOTAL	$ 2,270,054	$ 2,333,964	$ 1,712,386
GRAND TOTAL	$212,969,959	$196,185,484	$260,181,530

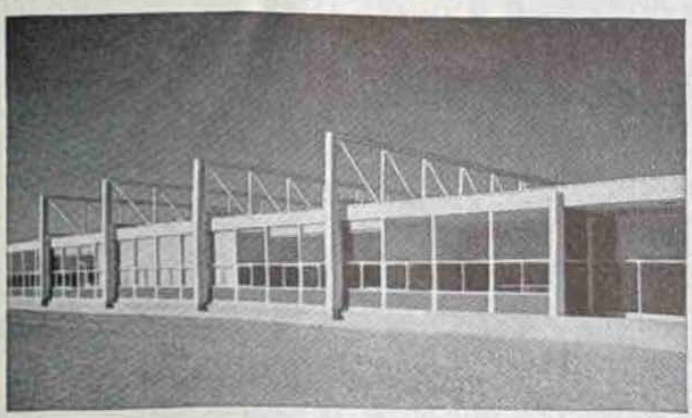
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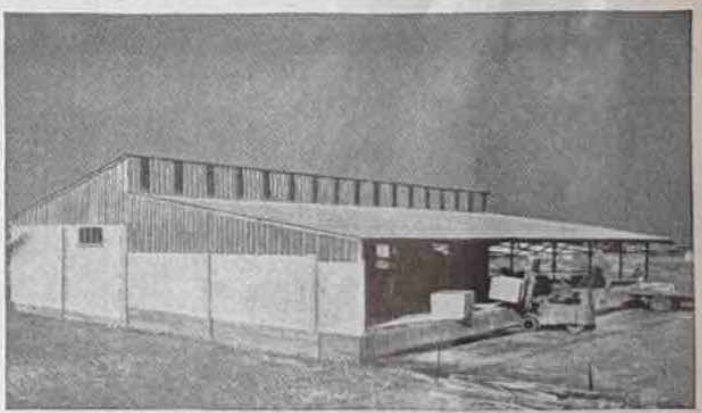
FIRE PROTECTION was the number one reason this Oregon grain storage mill was built with steel. The owner lost his first mill to fire, so vowing it would never happen again, he specified USS Corrugated Roofing and Siding Sheets and USS Floor Plate for his new building. This also lowered his insurance costs.



NO COSTLY MAINTENANCE PROBLEM HERE: This new Uranium Mill on the Colorado Plateau is frequently attacked by sand and snow storms. For maximum protection and minimum maintenance, steel roofing and siding was the obvious answer for these buildings. Steel framework leaves interiors open and flexible.



MANY COST-SAVING POSSIBILITIES result from the use of steel framing and wall panels. Curtain walls, for example, are faster to erect and provide more usable floor space. Steel framing eliminates bearing walls and reduces amount of framing. The school pictured above features an all-welded frame which helped make it Utah's least expensive (per square foot) school.



THE STABILITY of rigid frame construction provides a greater capacity to withstand winds, snow, cranes and "bumps" from materials handling equipment. Steel spans also mean more clear working space. This is just what Hansen Lime & Stucco wanted for their new Salt Lake City warehouse and shipping shed . . . so they specified steel framing, and USS StormSeal roofing and siding.

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AMBASSADOR INTERNATIONAL'S total office space would reach 10½ million square feet, four times size of Rockefeller Center's. Phase 1 indicated in site plan calls for construction of 25-story, 500,000-sq. ft. office building fronting Wilshire Boulevard, 450-500 room addition to present hotel, convention-ballroom facilities, underground parking provisions, heliport and other improvements. Estimated cost, about $30 million. Phase 2 shown at left would have four office buildings and extend new hotel wing.

Los Angeles eyes $300 million-plus development

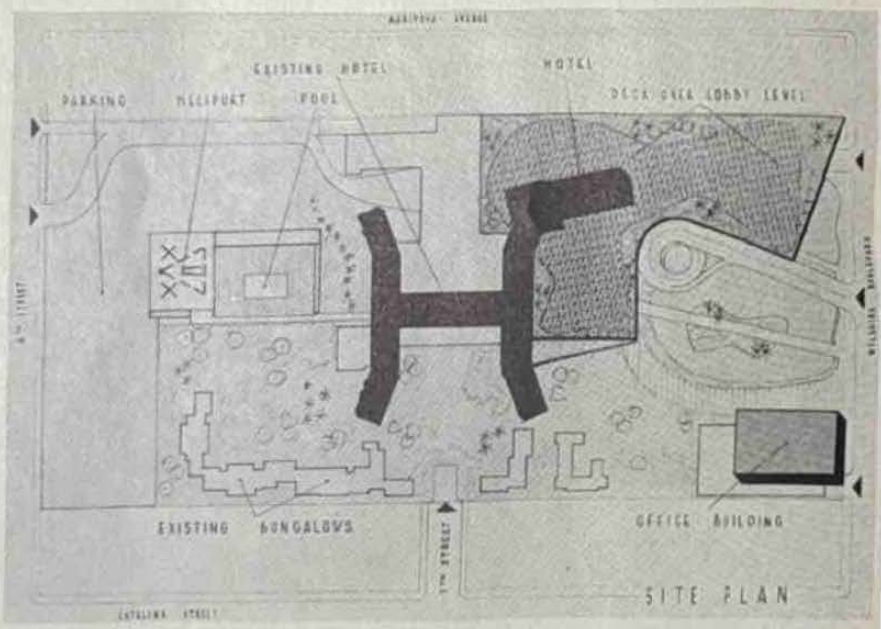
Largest commercial development in the history of Los Angeles is being planned by Schine Enterprises on 21 acres stretching between Wilshire Boulevard and Eighth Street, site of the Ambassador Hotel. An application requesting a zone change estimated ultimate cost of the long-range project at $316-350 million.

Master plan for the property, developed by Daniel, Mann, Johnson & Mendenhall, Los Angeles architects-engineers, calls for ultimate construction of seven office buildings, a new 2,000-room hotel, convention hall-ballroom facilities for 2,500 persons, a merchandise mart, a heliport, exhibition facilities, underground parking and attendant facilities.

G. David Schine has announced that the project, to be known as Ambassador International, will be built in several phases to provide a logical continuity to the further development of the entire Wilshire area. Until the final stages, the existing hotel, rehabilitated and improved, will be integrated into the plans.

Addition to the hotel would extend from the northwest corner of the building and contain a 32-story tower consisting of luxury suites as well as 450 additional hotel rooms. Rising from the Wilshire Boulevard entrance would be a concrete ramp, placed over a proposed lake and leading to the new lobby, with a deck above to provide recreational facilities.

Integration of the present hotel with the new wing would be brought about through an exterior wall treatment in character with the contemplated construction. One of the office buildings is planned to connect to the hotel.



Marin County gives FLLW bad time and vice versa

A finalized (by contract) romance between Frank Lloyd Wright and California's Marin County Board of Supervisors almost went on the rocks when a letter written by Bryson Reinhardt, a San Rafael salesman, was read to the board, charging the architect with being a "Communist sympathizer."

"Oh, rats," snorted Wright, as he stood up, waved his cane and headed for the door. "This is an absolute and utter insult and I will not be subject to it. I am a loyal American and people will have to take me as I am."

He stalked from the chambers and county officials momentarily feared their effort to get Wright to design an $8 million civic center had failed. Later, however, he agreed to visit the proposed center site north of San Rafael with the supervisors.

The Reinhardt letter was a seven-page affair, but county clerk George Jones had time only to read the first sentences when Wright exploded. Reinhardt said he based his accusations on information from J. B. Matthews, New York, who resigned in 1953 as staff director for the late Sen. Joseph McCarthy's investigations subcommittee.



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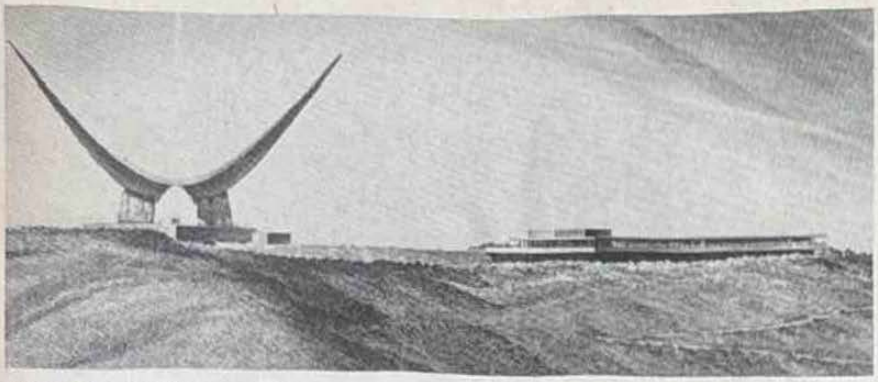
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MONUMENT WOULD BE PLACED on very top of island, presenting dark silhouette by day and, with its underside brightly lighted, white silhouette by night. Jury recommended that small meditation chapel be included in memorial.

Seattle firm wins Corregidor-Bataan competition

Winner of the Corregidor-Bataan Memorial competition is the Seattle architectural firm of Naramore, Bain, Brady & Johanson, whose design of twin parabolic concrete shells was selected over nine other finalists. The two curved slabs, 500 ft. from tip to tip, would be joined at the perimeter by prestressed edge members and supported on a pair of 54-ft. pylons, which the architects suggest could be subjects of a sculptural competition.

Because the monument will be visible from the airlines into Manila, the top would be surfaced in colored mosaic. This surface also would be accessible to visitors who could climb up through the base pylon to viewing platforms on either side. It also would be possible to provide steps up the center of each shell to the apex points.

The monument by its form will serve as a catch basin for rainwater, which may be stored for domestic use as well as for reflective pool requirements.

The architects explain that the double form of parabolic concrete shells "is essentially the shape of outstretched arms, or of simple outstretched hands, an inherent form of hope and supplication universally understood. The double form can also symbolize the East and the West, each a separate and distinct entity, yet each equally striving to the highest point; each held to the other by an encircling bond without which the structure of their civilization would collapse, even as the structure of the monument would collapse without the tie between the two.

"The opening, or eye, between the two portions of the monument, with its single vertical unwavering beam, protected by the encircling monument, symbolizes the singleness of purpose, shared by both East and West. The shaft of light also symbolizes the brilliance of mutually shared ideals and hopes, and also by its transitory quality emphasizes the need for constant care and nurture of these ideals and hopes."

The jury, headed by MIT's Pietro Belluschi, found the winning design "to possess sculptural qualities of a high order, to be a simple form easy to remember, to admire and to love; it composed well with the shape of the island and it had the right scale." And in the end the jurors believed that "it had spiritual power and its meaning did not need to be explained any more than the Washington Monument needs to be explained."

Other West Coast architects invited to participate following an open competition were Anshen & Allen, Gardner A. Dailey and Donald Powers Smith, all of San Francisco, and Paul Thiry of Seattle.



Seattle HHFA office gets regional status

Long-sought regional status has come to the Seattle office of Housing and Home Finance Agency in all fields except urban renewal, eliminating the routing of its affairs through San Francisco for further processing. New title for Seattle office head Lindley R. Durkee is director of Northwest operations, which encompasses Washington, Oregon, Montana and northern Idaho.



DURKEE

Durkee also has been elected to a second term as vice president of the western region of the National Society of Professional Engineers. He is a past president of both the Washington Society of Professional Engineers and the Seattle chapter. A graduate of Montana State College, Durkee holds an honorary doctorate in engineering and public administration.

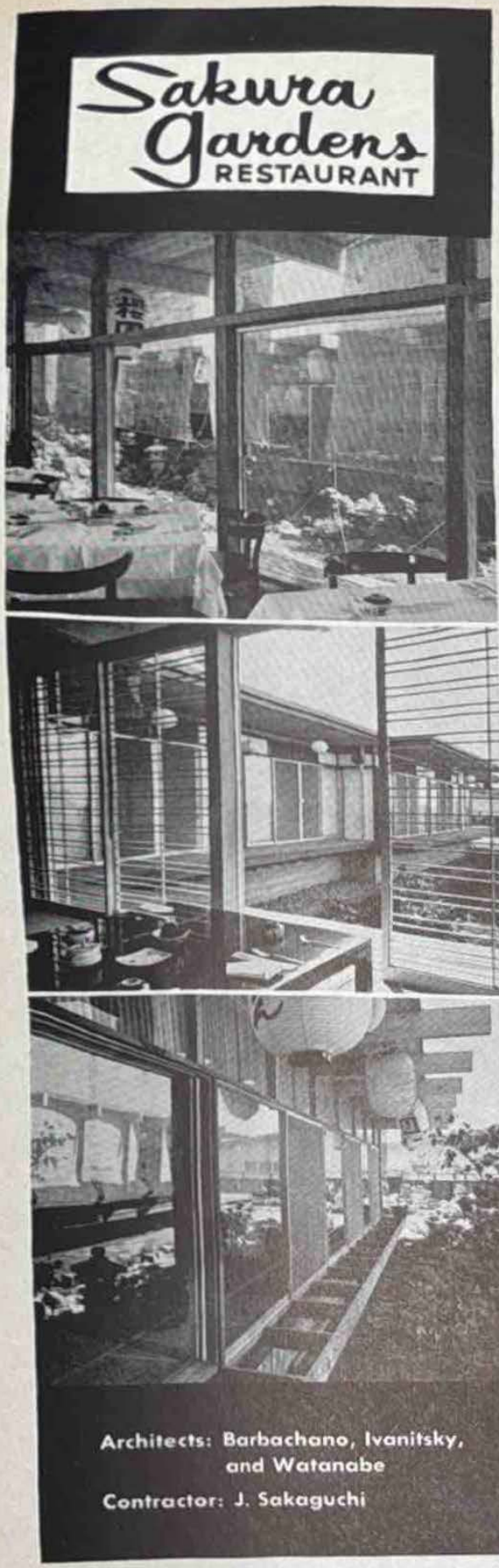
Briefly noted . . .

• Oregon will celebrate its 100th anniversary as a state with a Centennial Exposition and Trade Fair to be held in Portland in 1959. The Oregon legislature has allocated $830,000 for the event, $500,000 of which will be used to rehabilitate the Pacific International Livestock Exposition site in north Portland for the fair. The Centennial Commission had hoped that the city's proposed Exposition-Recreation Center or its proposed National Guard Armory would be ready in time for the event, but both have been beset with delays.

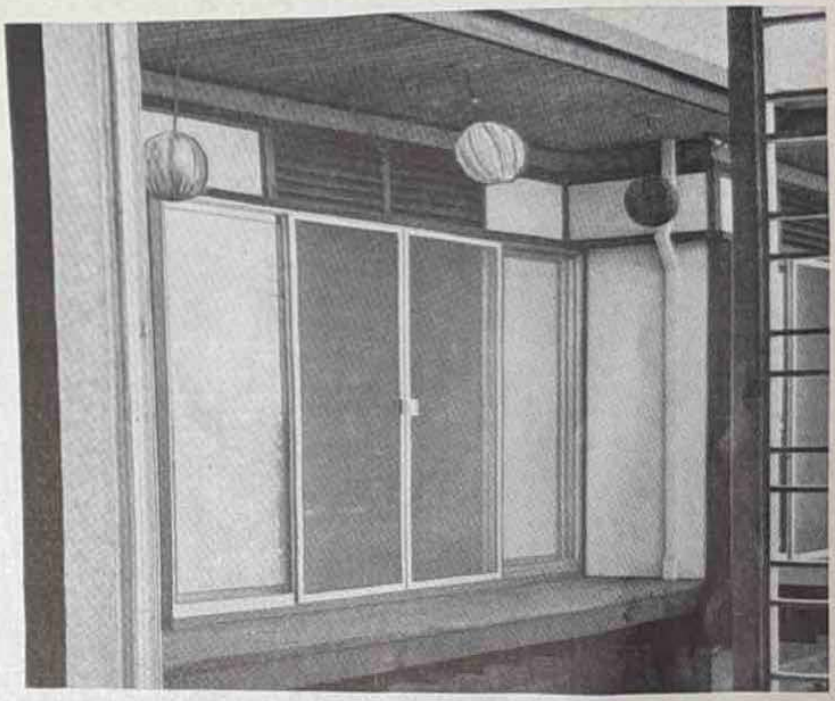
• A proposed $51 million-plus cultural center in downtown Los Angeles has run into a red light, with the county's Board of Supervisors accepting its citizens advisory committee's recommendation that contemplated financing of the facility is not advisable at this time.

• Methods of developing an expanded housing program to meet the nation's present and future requirements will be explored when home builders and building materials manufacturers meet in San Francisco September 12. The conference will highlight the fall directors' meeting of NAHB.

Continued on p. 37



Arislide Sliding Doors...



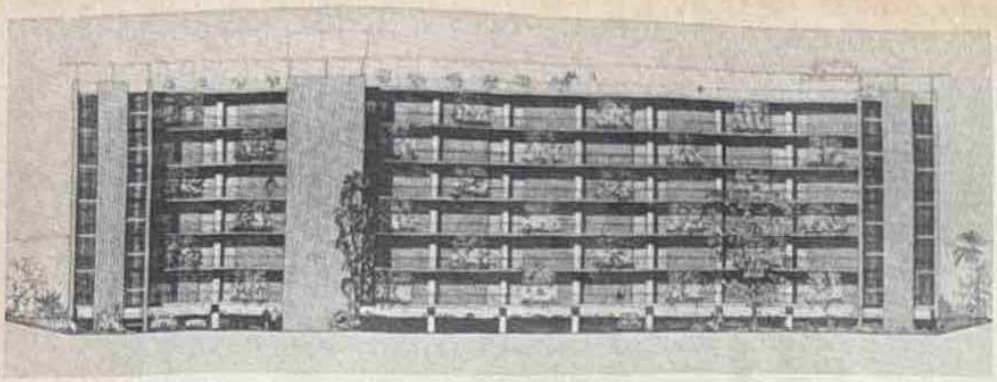
...used throughout the exotic Sakura Gardens restaurant in Mountain View, California.

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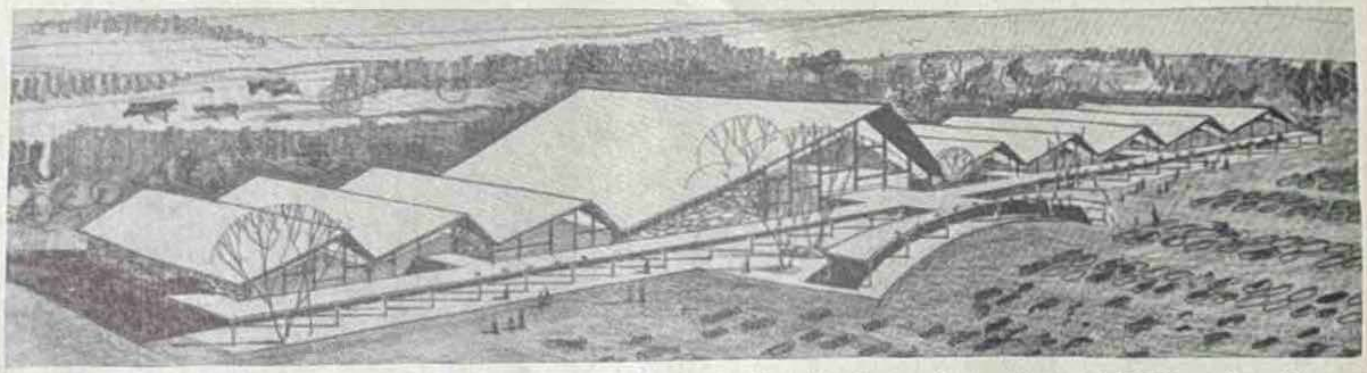
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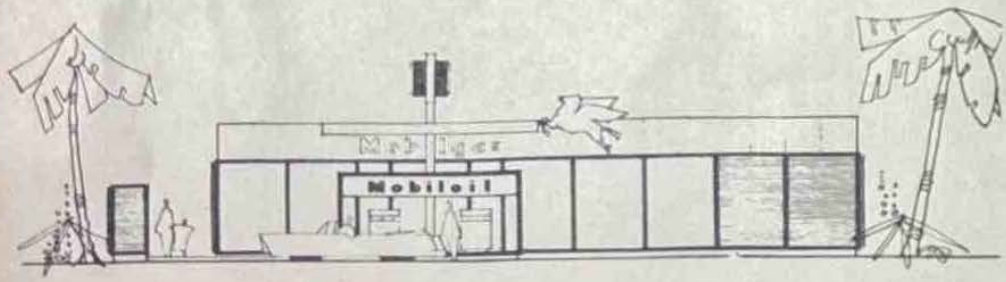
PROJECT PREVIEW



SIX-STORY ADDITION to Rickey's Studio Inn Garden Hotel at Palo Alto, Calif., will rise from depressed water garden extending under first floor. Access to lobby and free-standing steel and glass elevator enclosure will be via curved bridge leading to garden. Each floor will have 11 rooms, entered from balcony running along windowless rear side. Architect: Ernest J. Kump.



TOTAL BUILDING AREA of project being planned for Greater Renton Shopping Centers, Inc., will exceed 60,000 sq. ft. with more then 1,000 ft. of frontage on Sunset Boulevard in Renton, Wash. Center will include 16,000-sq. ft. supermarket, drug and variety stores, 16-alley bowling facility and service area. Architects: Johnston-Campanella.


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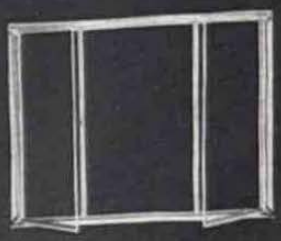
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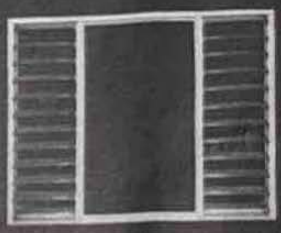
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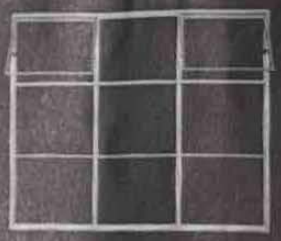
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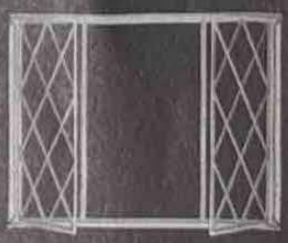
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M.I.T.'s dean of architecture speaks about the profession in terms of where it's been and where it's going

A new century of architecture



by PIETRO BELLUSCHI, FAIA

ARCHITECTURE, the theater of human activity, to which our happiness and well-being are so closely attached has changed in scale and visual meaning. The old architectural traditions have been questioned and found inadequate. The kinds of peaceful satisfying environment which existed in past centuries has given place to a complex and confused agglomeration of structures executed in a manner and on a scale difficult to comprehend or to love.

One of our most cherished machines, the automobile, has wrought havoc within our midst. Seventy million, soon 100 million of them, using up and demanding enormous amounts of land, killing, maiming and patronizing the pedestrians, riding high over our communities bringing congestion and blight, are forcing us to ask whether the city itself can be saved as a social entity. Not the city alone, but the whole visual world brought about by modern man's growing arsenal of technology has been up to now an insult to man's own nature. We see mostly disorder and ugliness everywhere, the obvious signs of a society still in a state of transition, a society which no longer places value on permanence, therefore on grace, because it assumes that improvements brought by a still advancing technology will continue to produce obsolescence.

There are now 170 milion people in the USA. The next 100 years may well see double that number, most of them living in urbanized communities. The amount of land used for this expansion will be many times the present one. In terms of future patterns of life, this is a frightful prospect which makes obsolete the conventional image of urban life on which present political boundaries were established and upon which even now many of our important decisions are made. The importance and the urgency of what must be done to guide mankind in this new century of growth staggers the imagination and gives all of us a feeling of inadequacy.

Are we architects prepared for the enormously challenging task which is ahead of us? I wish I could please my audience by assuring them that everything is going to be all right with the profession, that it is ready and raring to go, but I hope you will not think me rude if I should express some doubts.

So much has been written, thought and argued in the last few decades about architectural expression by the practicing man, the critic, and the layman, and it covers such a large variety of views and opinions, all containing some portion of truth, that it would be impossible for me to make final statements and to avoid confusion and contradiction.

I may be on safer grounds if I tried rather to review the role which our profession has played in the past and the one it must play in the future. The architect is many things to many people and the standards by which his performance may be judged by his peers and by society are not easy to define.

We can say that in these last 100 years the architect has searched for cultural value in a world progressively dominated by the machine. Almost half of this time was marked by conflict between those who identified those values with the classic or romantic and humanistic ideals of the past and those who would search first for the true nature of our age. That conflict is being slowly resolved, but the search now is for the ways of again expressing our humanity against the complex facts of our era, a revolution in effect of the meaning of culture in a fast-changing society.

I cannot help but feel that the changes which have taken place in architecture during the last 100 years when past imitations and revivals were tried, found inadequate and in the main rejected by our profession were but a prelude, a clearing of the decks so to speak, for a vastly more important or significant task: the reshaping of our physical world, the rebuilding of human communities in a way which may respond to a vastly changed set of circumstances. It is in this larger context which I like to raise the vision of architecture for the next century. It is here that the profession will be asked to make its greatest contribution. It is here also where the profession has most conspicuously failed up to now. It would be unjust to say that our profession alone is to blame and it would be unfair also to state that it is completely unprepared for the task.

Through many agonizing reappraisals, the modern architect is slowly becoming a vastly different kind of man from the one whose image we have so long held. He is more open-minded, more able to work with others; less emcumbered by preconceived ideas of what a form should be, less self-conscious about being tasteful and more likely moved to do what is feasible and significant. He is placing less emphasis on cleverness, on style, on novelty, and more on good performance and appropriateness to purpose—two virtues which do not exclude joy and the happy feeling which all good things give to human beings.

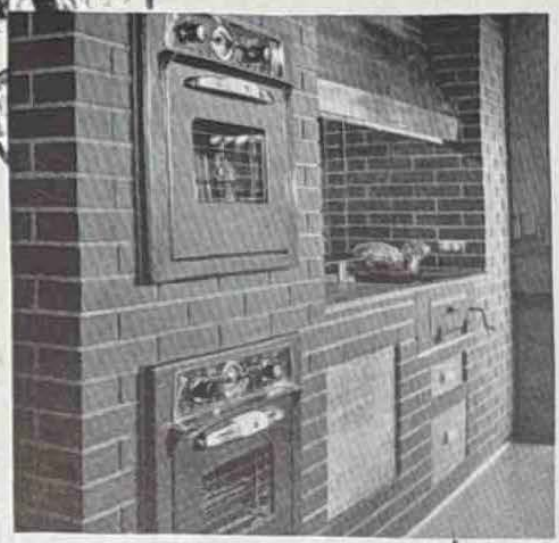
The architect is the environment specialist; no longer obsessed with the romantic idea of self-expression, but rather with the idea of learning to see and understand. From nature he is learning to see the enormous variety of structural forms which are possible; from science he is learning how to apply his skill and ingenuity in finding materials and methods which may enable him to use similar ones for his construction; from many fields of engineering he is learning how to make those forms stable in compliance with natural physical laws; from industrial methods he is learning directness of solution and economy of construction. Research in many

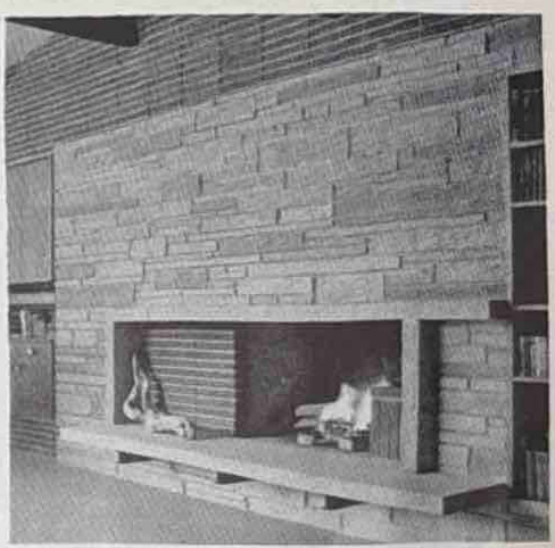
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Excerpts from the closing address presented at the AIA Centennial in Washington, D.C.



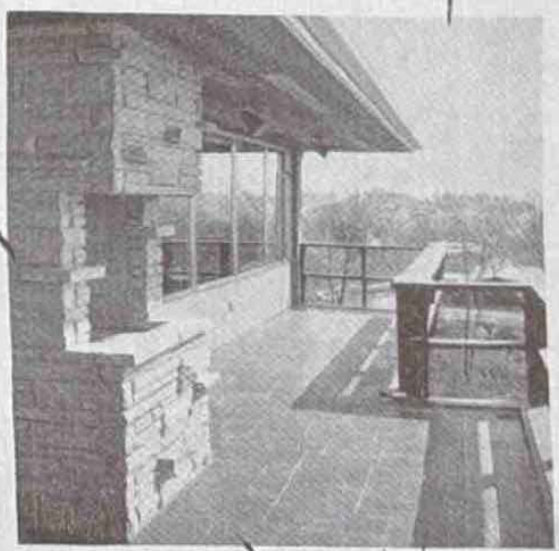
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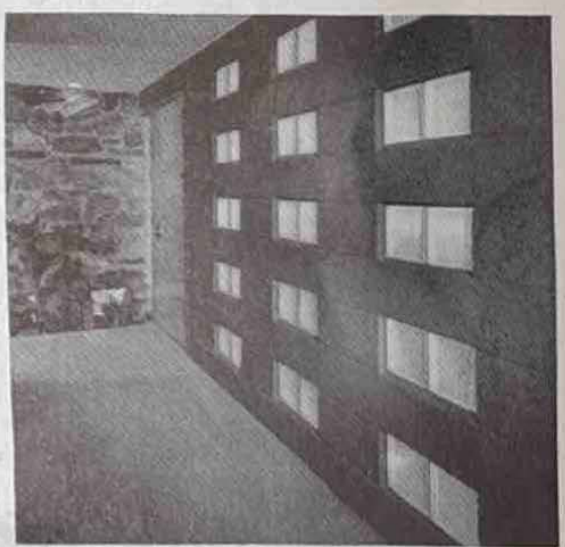




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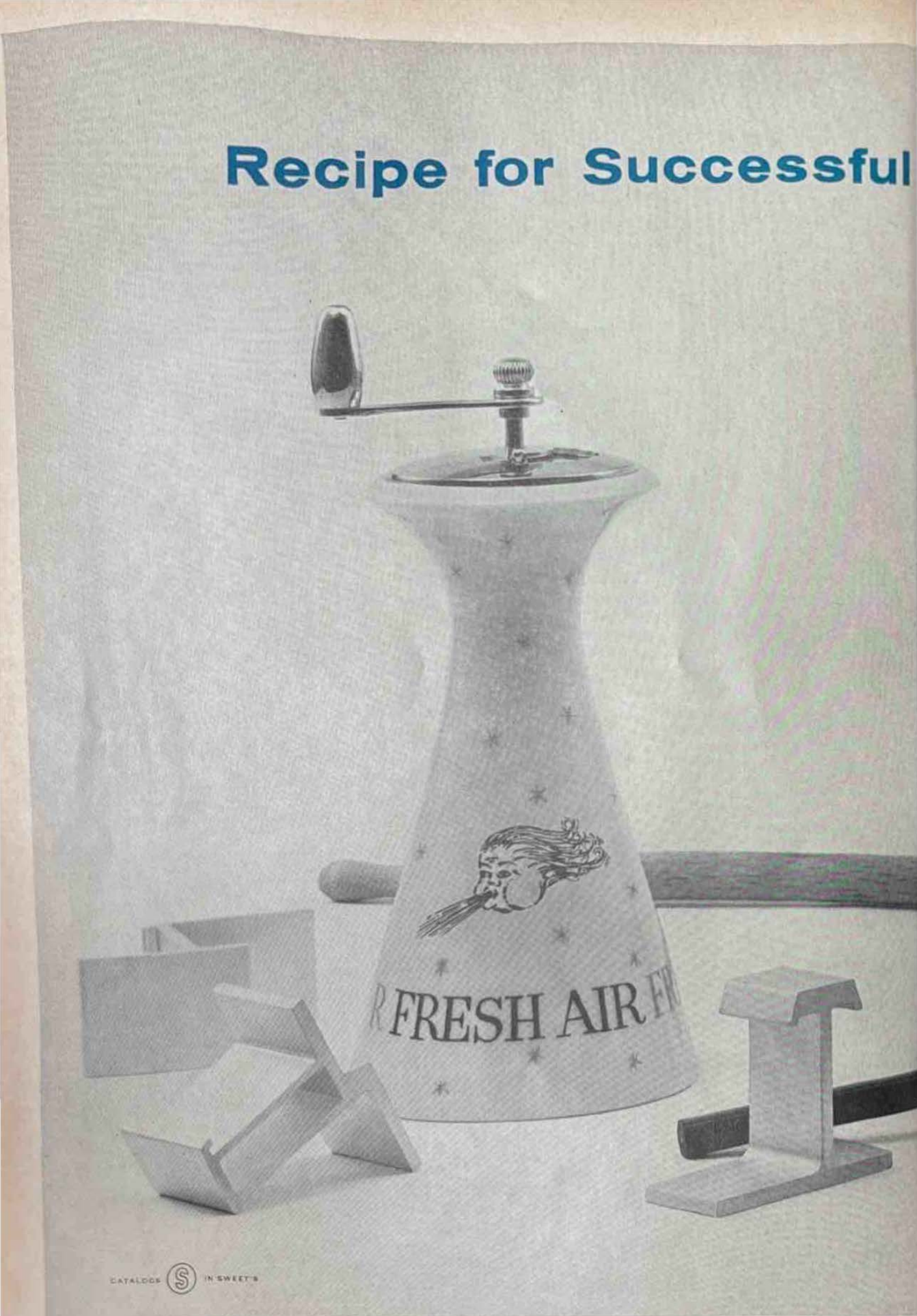
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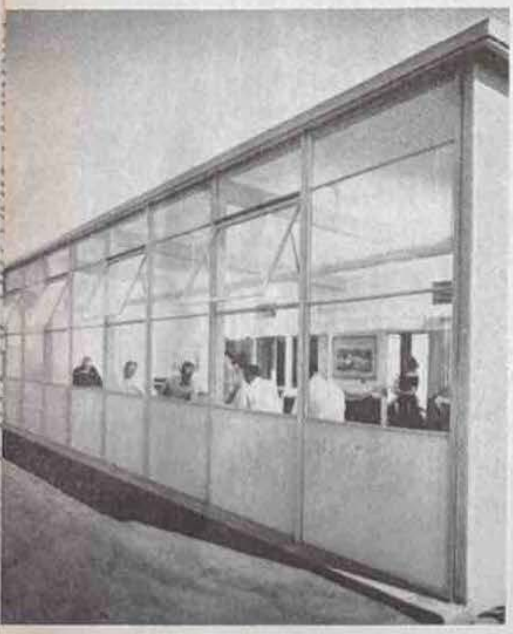
Where architects hang their hats

HARRY T. MacDONALD

Los Angeles, California

THROUGH the honest and unpretentious use of common building materials, the architect has designed an economical project, including two rental units which can serve as future expansion for his practice. The 1,966-sq. ft. structure was completed at a cost of $11 per square foot.

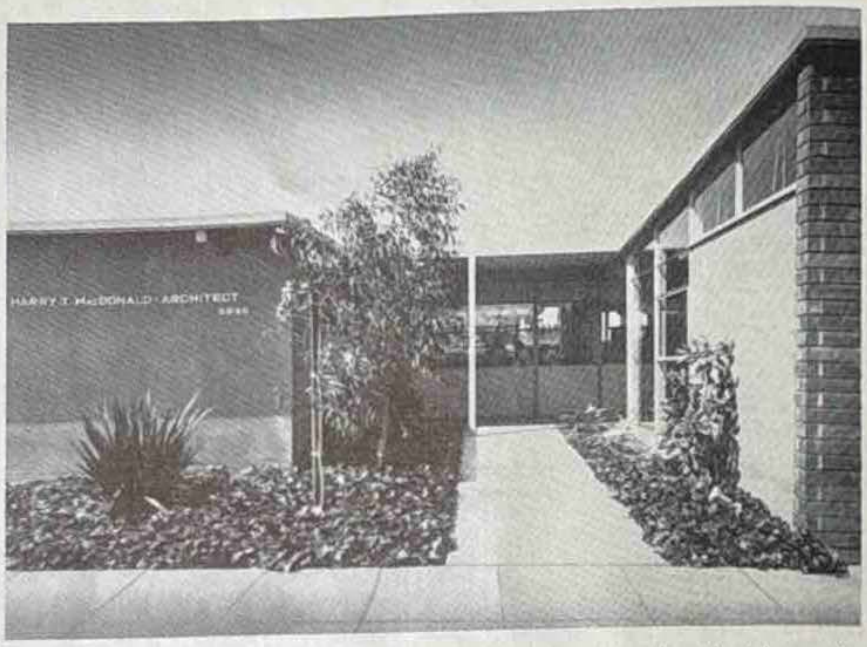
To take advantage of available natural light, the structure was planned with maximum glass areas which are shielded from glare by a roof overhang on the south and fixed redwood louvers on the west. A tall hedge at



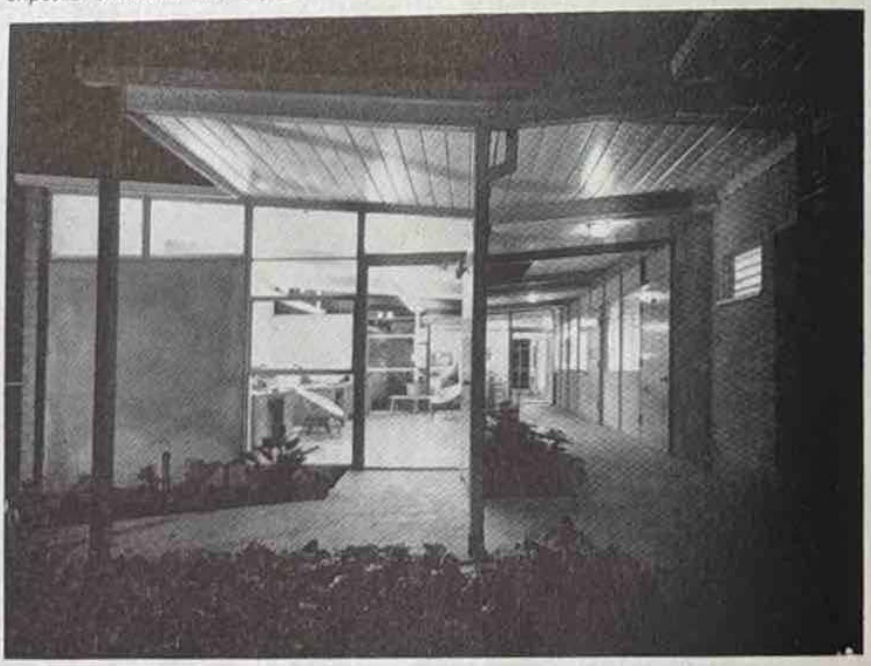
the north wall shields the drafting room from secondary reflection glare. Ceiling light fixtures over critical work areas supplement daylight when necessary.

Construction is of exposed post and beam in modular pattern. Cement asbestos board is used to sill height below windows. Exterior is tan stucco, red brick and blue-green exposed wood; interior walls are buff and lemon yellow. Ample off-street parking is provided.

Structural engineer was S. B. Barnes; mechanical engineer, Storms & Lowe; electrical engineer, Clayton T. Gibbs; general contractor, J. H. Kuhl & Sons.



ON CORNER SITE, building is located at intersection of business and residential street. Its appearance from main boulevard has pleasant yet efficient character. Two solid walls of exposed brick and stucco protect offices from street noises.







A partner in the firm of Bassetti & Morse on an Italian housing mission gives a first-hand report on building techniques and design

by FRED BASSETTI, AIA

An architect's sabbatical leave in Italy

BEING IN ITALY for an extended stay as an architectural consultant has provided an exceptional opportunity to study at leisure, not only ancient buildings along with the medieval and renaissance structures, but also to reflect unhurriedly about today's European building methods, design philosophies and city planning concepts.

This sabbatical year, which is being taken away from architectural practice in Seattle, is being spent developing a building program in Italy. It consists, in one part, of the construction in four Italian cities—Vicenza, near Venice, in the north; Salerno, just south of Naples; Palermo, in Sicily; and Sassari, on the island of Sardinia—of so-called pilot housing developments. The program is an attempt to show by good example how housing can be built better and for less cost. Since we are only in the planning stages now, the success of our experiments in an economic sense has not yet been established.

The other part of our program lies in the design and construction of two small experimental apartment houses here in Rome totaling about 80 units. While the pilot projects are scattered throughout the country like seeds which we hope will bear fruit by stimulating others to do better, the Rome project is to be more experimental in a technical sense. We hope that it will be influential among architects and engineers who will be kept informed and invited to follow the course of construction.

Building conditions here differ vastly from ours, not only in ways easily forseen, but also in the unexpected and the unexplainable. As always, the strongest influences are climate and materials, then architectural and engineering attitudes, which are often themselves swayed decisively by the cultural climate and traditional heritage of the country. Finally, and sometimes the controlling factor, are the financial considerations which include the relationship between wage rates and material costs as well as credit policies and tax structure.

Probably the fact best understood in the United States about building in Europe and particularly in Italy is that it is based on masonry and reinforced concrete rather than on wood or steel. But it is not a use of masonry as we know it generally and there have been countless experiments with earth materials, looking toward better and cheaper building. The most successful of these has been the use of prefabricated and often prestressed clay tile joists, beams and whole clay tile floor structure roofing systems. At least 90% of European floor strucures are built this way.

This emphasis on finely calculated structure comes about because of the relation between the cost of labor and of materials, which relative proportion is the reverse here of what it is at home, materials being expensive and labor cheap. Cement and steel cost about the same as in America but workmen's wages are between eight and ten times greater in the latter. A journeyman bricklayer, for example, gets 247 lire per hour here, about 38 cents! He works at a fast clip, too, eight hours a day, six days a week being about a minimum schedule.

As far as construction methods and techniques go, the custom here is also quite different from American practice. Primarily there is a lack of machine tools because again, machines are costly and labor cheap by comparison. For instance, very little concrete is made readymix, almost all being mixed on the job as is all mortar.

The mortar is made from lime and "pozzolana," a native red earth plentiful in central Italy. No sand is used and the pozzolana is ground on the job in a small machine consisting of two or three heavy rollers rotating on a flat bed and crushing the mixture of earth and water until powdery smooth. Then a laborer hollows out a shallow depression, builds up dirt banks around it and in this crude container mixes his mortar by hand. Why bother with a mortar box? No sand is needed since the pozzolana and lime combine chemically with the water to make a first-class hydraulic







LOW COST HOUSING PROJECTS in various sections of Rome are illustrated on these two pages.

AN ARCHITECT'S SABBATICAL LEAVE IN ITALY

cement. The Romans discovered this toward the end of the Republican period and made a sort of concrete with it using "tufo," a common volcanic rock, as the aggregate.

Materials handling on the job is done not with elevator hoists but almost entirely with a "gru" or traveling crane. It does most of the work horizontally as well as up and down, the operators being amazingly quick and versatile, picking up a load of brick or concrete at one end of the lot, hoisting it up, over and halfway down the other side of the building from where the crane stands in a matter of seconds. Motorized wheelbarrows and the like are practically unknown and the huge cranes with their great, counterbalanced tops are a sort of do-it-all highly prized by the European building fraternity. Of course it must be kept in mind that the bulk of their construction here consists of 5- to 10-story apartment buildings built in groups of two or more together, which circumstance adapts itself well to the use of a gru.

As for finished wall materials the long tradition still continues in an almost universal use of stucco outside to cover rough brick, clay tile or tufo and plaster inside. In bathrooms and for exterior walls in more pretentious buildings, glass or clay mosaic tile is used to great advantage.

Regarding architectural design there are both strong differences and evident similarities with the recent work in the United States, the latter being easier to illustrate than the former. The basic similarity lies in the fact that in Italy, as elsewhere in most of the Western world, a majority of the important building commissions are given to architects who are business men first and designers second. Now, after 12 years of architectural practice, I am first to admit, even to assert, that an architect who is to practice in his own name must be a businessman to some degree if he wants to survive. But the result of putting the business part first is that inspired work rarely gets done. Only seldom does one happen upon a first-rate building, one with a spark of creative imagination or one reflecting an unquenchable will to avoid fashion and build something genuine.

When these rare exceptions are found they are worth studying. There comes through a spirit and vitality that still shows respect and sound understanding of the great history of Italian architecture. However, the last war had such a catastrophic effect on the whole of Italian life that there was an almost complete break with the past economically and politically and a somewhat lesser one culturally. While creative design had been stifled under Fascism for 20 years, it was suddenly liberated about 1944 and the result was largely what might have been expected—unbridled license.

Other important factors to consider in any comparison between the American and the European building complex are construction financing, bidding procedures and most important from an overall viewpoint, city planning.

The cost factor is of absolute importance in at least 80% of the work and Italian architects also have to struggle to meet a budget. But the significant fact is that different parts of the building are cut in order to meet the budget than is the case back home. Where we will use asphalt tile on a concrete slab for a bottom-of-the-barrel job, in Italy the designers would never consider such a thing. They do not think a slab-on-grade is satisfactory and will build a reinforced, tile-joist supported slab above the ground and then will be satisfied with nothing less than a ground and polished terrazzo surface even for the very lowest cost work.

Savings will be made by eliminating kitchen cabinets rather than by giving up the ubiquitous bidet. They will leave out a hot water tank instead of cutting down on the size of their rooms. They will practically delete the whole heating system in large apartment buildings in order to have at least one, but more likely two or three, balconies opening out from each apartment.

In a few cases quality gets a break and the fine craftsmanship of which these people are capable comes through. Particularly noticeable are the absolutely perfect cabinet work, the tile setting—long an Italian specialty—and masonry work of all kinds. Real glory shines in their best materials: stunning marbles, onyx, porphyry, alabaster—about all there is of value under this poor peninsula's stony skin. Combine these materials with the fine workmanship to be had at low cost, add a dedicated architect and the result is a building which will delight the world for centuries. How will I ever again be able to stand





TYPICAL CONCRETE FRAME STRUCTURES with unit masonry (either hollow tile or "tufo") in filling—and balconies, of course—are seen at right. In foreground below is "little market" open air style.



green 2x4s and plasterboard?

As for financing, the situation is tough. Money for investment is scarce. Let alone the last war and inflation, the Italians had already lost everything in countless earlier wars and invasions, and especially in the centuries-old struggle between the Guelphs and the Ghibellines. What little capital they do now have is largely eaten up by the terrific rates of interest. The basic rate starts somewhert around 6% but charges and discounting soon build it up to 12 and even 15% for long-term mortgages. Even then they complain that money is not available. Fortunately the lira has been one of Europe's stablest currencies in the last few years. Therefore this problem should very gradually cure itself as demand for building money slacks off and supply catches up—if they can manage to control their population problem!

Bidding practices are so odd and difficult to comprehend that it will probably take another six months to understand and report them accurately. So only one specific one will be mentioned here, that used by Ina-Casa which is the largest single building organization in Italy and a semi-public agency. When it goes out for bids to a selected list of from eight to twelve firms, Ina-Casa establishes a maximum figure over which no one is allowed to go and still have his bid considered. If the potential bidder feels that the sum allowed is too low, he simply does not participate. The bids obtained in this way are then tabulated and that bid closest to the mathematical mean — the point exactly between the high and the low—is the one selected.

The reason for this, as explained to me, is that the agency thereby gets a competent contractor at a fair price. The incentive to bid extremely low to get the job is not present, ensuring good workmanship, but whether this is the actual result in practice I haven't as yet determined. This agency is now beginning its second seven-year building program and is continuing this bidding system.

The final point of particular interest in this crazy-quilt of feverish building and designing activity is the status of city planning theory and practice. At first sight an architect visiting here will be completely overcome by the widespread violation of good city planning principles and will promptly conclude that the Italian architects and planners have holes in their heads. This isn't true.

The politicians have the Swiss cheese heads, because the abominably laid-out and overbuilt areas on the outskirts of most or the large Italian cities are about 80% a beautiful example of speculative profiteering run riot and perhaps 20% legacy from pre-war Fascistic planning. Some of the overcrowding of eight- and ten-story apartment houses can be forgiven as a result of the frantic rush to build as soon as military occupation was over. But most of it is the bitter fruit of non-understanding, non-concern or even worse, actual involvement on the part of government officials.

If these officials did not understand, the architects are certainly partly to blame for not informing them. But, perhaps as a reaction from the early postwar failures, the design professions today are doing a magnificent job of informing the whole educated classes as to the principles of good city and neighborhood planning and the overriding need for reform in all fields of building legislation. As a result of their activities in this field Urbanistica, the leading planning magazine, is now sold by practically all news and magazine dealers and is actually bought by the public at large despite the relatively high price of 1500 lire or about $2.40. It is a remarkable review, probably the leading one in the world today, largely due to the wisdom of its founder, the no less remarkable Italian industrialist Adriano Olivetti.

Basic principles underlying most city planning thinking here, as elsewhere, is the reorganization of the city structure to remove the present intolerable conflict between pedestrian and vehicular traffic. But equally important in Italy's thinking is the need to humanize and rescale our urban environment by thinking of the people first and the automobiles second. Her hope is to counteract the trend toward closing oneself off from the community and into the home, family by family around the TV, by making available for community use more attractive gathering places for groups of families.

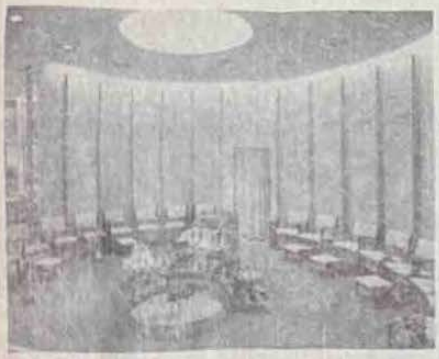
The Italian public square is, of course, an age-old institution, but there is a new emphasis on the need for newly conceived neighborhood

Continued on p. 37



Meier & Frank's
Salem, Oregon

418,000 sq. ft. of 'total design'



SPECIAL DEPARTMENTS such as children's shoes are clearly defined in massive selling area.



"MEET ME UNDER THE CLOCK," long a byword with Meier & Frank shoppers in Portland, now can be heard in Salem.

RESTAURANT IS DONE in native woods, complemented with Oregon murals and foliage.



REQUIREMENTS OF PLACING great quantities of goods in pleasant and convenient surroundings held the key to the design of this full block department store in downtown Salem. The two-story $5 million plant, with mezzanine and a 700-car parking facility, houses the largest expanse of merchandise on one level in the Pacific Northwest.

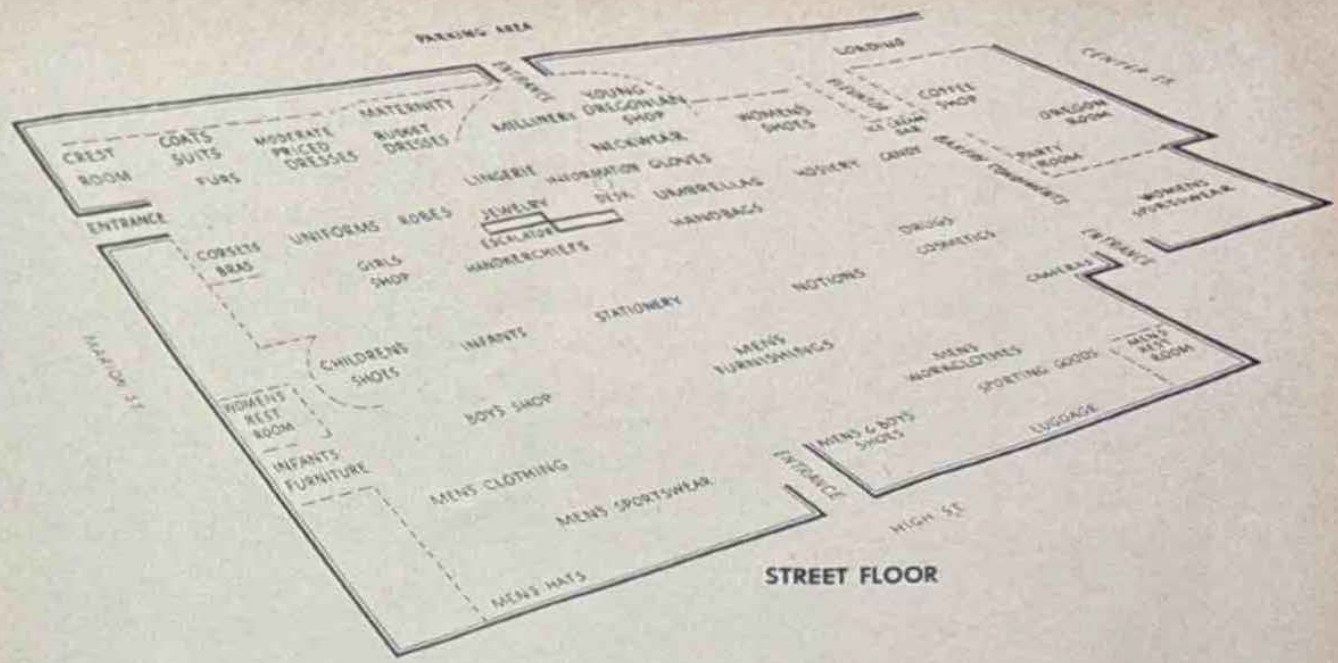
Through a variety of techniques and materials, departmental intimacy has been maintained for many sections, while harmonizing with the overall plan. In employing what they call the "total design" concept for 75 service and selling departments, the architects developed not only the details of the building itself but all furnishings, fixtures and interior appointments from the color of the walls to the shape and size of door handles. The fixtures of different hardwoods with colorful panels of plastic veneer are designed to carry the maximum amount of stock on the selling floor.

The client desired that particular attention be paid to facilities for its nearly 500 employees who, regardless of where they are stationed in the store, enjoy year-round controlled temperatures as well as the customers. Good lighting is found in all workrooms and behind-the-scene areas and cheerful colors help to relieve monotony wherever possible. A central food kitchen services both the employees' cafeteria and a public restaurant and coffee shop. A lounge and locker space also are provided for personnel.

Exterior of the reinforced structure is of Roman brick in oyster white; mosaic tile in white, yellow and gray; supporting columns of the store front and garage tiers in yellow. A wide expanse of glass highlights the main entrance. Original silver birch trees in the area have been retained and additional ones have been incorporated in the landscaping.

The double-spiral ramp garage, which reaches the full height of the building, gives patrons immediate access to the floor upon which they desire to shop. Elevators and stairways also lead from the roof deck to all shopping levels. The parking facility has access and ingress on the three streets which flank the structure. The lower level has a will-call station where purchases can be picked up.

In all there are seven public entrances to the store—four on the ground level, each marked by special design tile in alternating colors on the sidewalk—so that the shopper, whether arriving by car or by foot, can reach the desired destination in the shortest possible time. Automobile approaches are free of truck traffic, with the installation of an off-street dock for receiving and deliveries.



WELTON BECKET & ASSOCIATES
JAMES L. PAYNE, Associate
Architects

HOFFMAN CONSTRUCTION CO.
VIESKO & POST
General Contractors

OUTLINE SPECIFICATIONS

Type of Construction: Flat slab reinforced concrete and structural steel supplied by Bethlehem Pacific.

Exterior Walls: Reinforced concrete, straited Roman ruffle brick, mosaic tile and plate glass.

Doors: Glass in aluminum frame, exterior; some flush wood, interior.

Floors: Concrete slab covered with rubber, cement, ceramic, asphalt and vinyl tile and custom-designed carpeting; special design tile in alternating colors at sidewalk entrances.

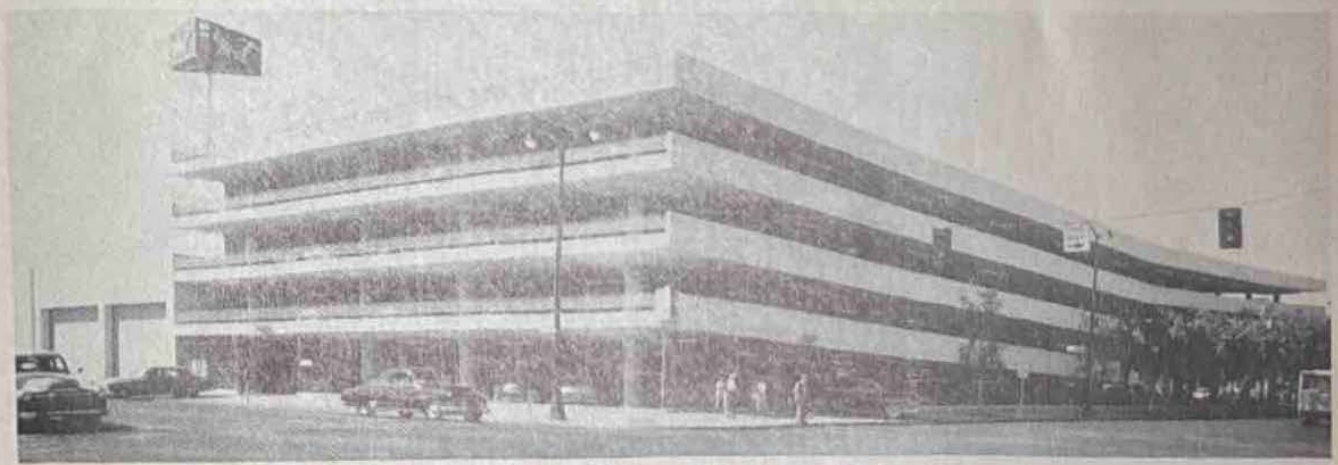
Interior Walls: Paint, wallpaper and stone on selling floor surfaces; redwood, wormy chestnut and light walnut paneling in special departments and restaurant.

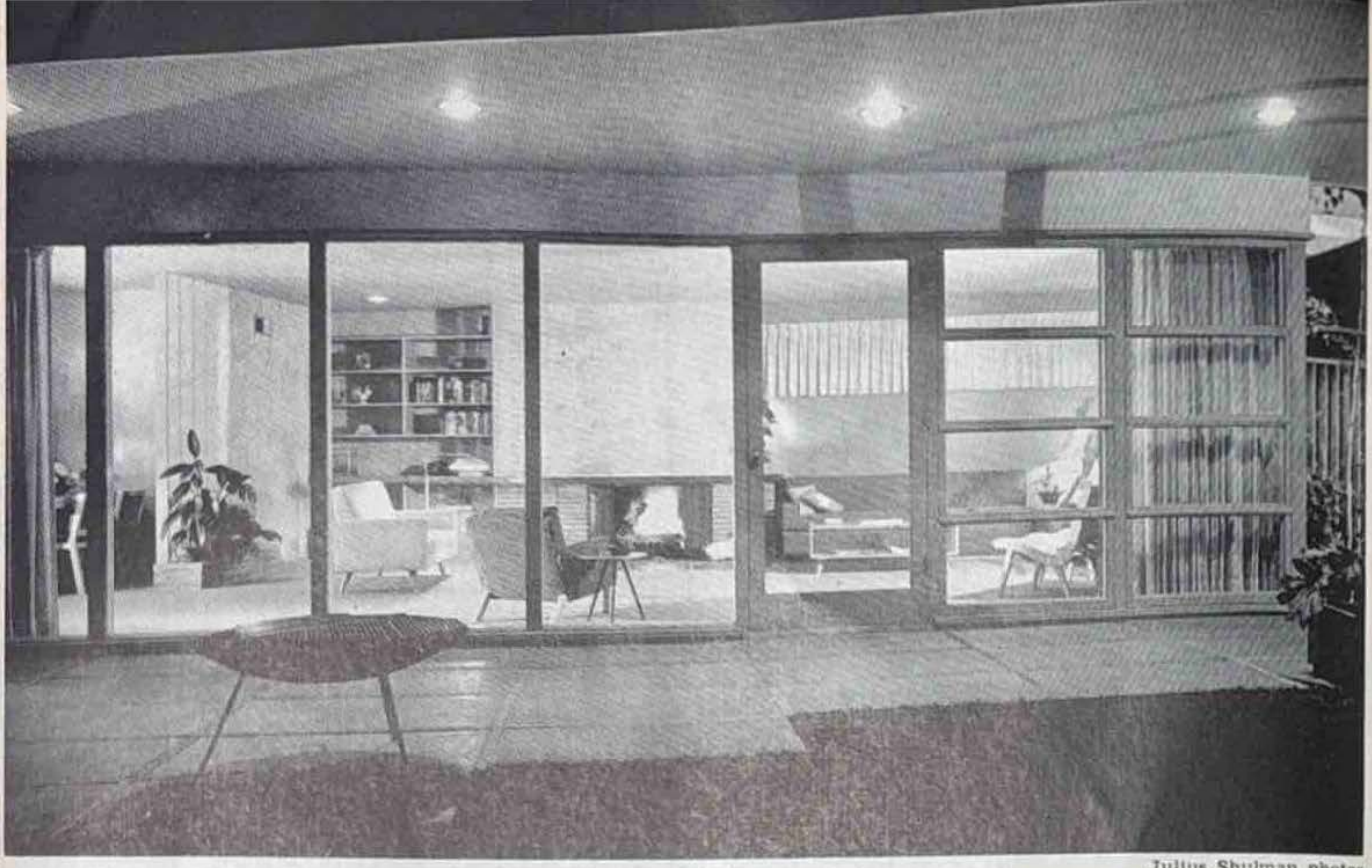
Total Area: 418,000 sq. ft. (183,000 in store; 235,000 in parking garage).

Total Cost: $5,000,000 (construction and land).

Date of Completion: October 1955.

CONCRETE AND STEEL MESH GUARD RAILS surround each parking level. Painted exterior becomes integral part of total plant. Garage parks 700 autos.





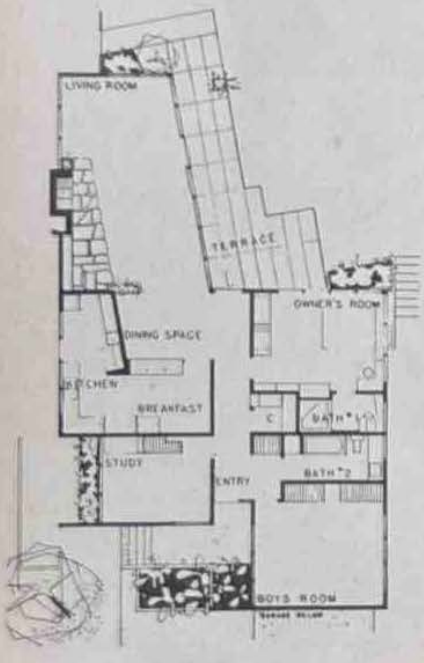
LIVING-DINING AREA faces garden-terrace, is completely free of cross traffic.

Julius Shulman photos

Eugene Kinn Choy Residence
Los Angeles, California

EUGENE KINN CHOY, AIA, Architect

RAINS-McLELLAN CORP., Contractor



MASTER BEDROOM also looks out to terrace, has easy accessibility to all parts of home. Built-ins include bed and shelf cabinet headboard, dressing table, dresser drawers, wardrobe and storage shelves.



Garden-terrace lends space and surprise

THE ARCHITECT wanted to build his own home on a hillside lot which sloped in two different directions, creating a somewhat difficult site planning problem. The lot had a 50-ft. width and a frontage that curved at a 30-deg. angle. Two small boys negated changes in floor level; in addition, the family desired a shaded and private garden-terrace for everyday outdoor living and entertaining.

To accomplish his one-level plan, the architect had a shelf cut out of the hillside, providing a level area in the rear, with the remainder of the lot rising sharply to offer seclusion from the back. The living-dining area, which faces the terrace, is not directly visible from the entry. Full length sheer glass windows add to the indoor-outdoor feeling. The openness of the plan is further enhanced by the use of a two-way cabinet and pass-through between the kitchen and dining areas. The former includes the breakfast area, laundry and cleaning equipment. Cabinet doors and drawers are all flush type, presenting simple and smooth surfaces accented by chrome sphere pulls.

The boys' bedroom is placed away from the active living area to assure privacy for the adults. The study—it doubles as a guest room—is also isolated by location and has such sound absorbing materials as an acoustical tile ceiling, cork floor and fiberglass insulation in the common walls. The two bathrooms are back to back and each has a pullman lavatory counter. The bath off the boys' room can be reached from the hall and study room.

Exterior vertical redwood siding is repeated in the rooms which front the street; hardwood veneer is used in the living-dining area and over the fireplace mantel. The redwood and hardwood walls have a natural finish.

OUTLINE SPECIFICATIONS

Structure: Wood frame.

Exterior Walls: Redwood beveled siding installed vertically, cement plaster.

Roof:

Windows: Steel casement (Soule) wood awning type.

Doors: Solid core, exterior; hardwood veneer, hollow core, inside.

Floors: Asphalt tile (Kentile), cork tile (Kencork), carpeting over plywood.

Interior Walls: Hardwood veneer, redwood beveled siding, smooth plaster.

Ceilings: Plaster, acoustical tile (Acousti-Celotex).

Insulation: Fiberglass batts (Owens-Corning) in common walls.

Fireplace: Roman brick, copper mantel, slate hearth.

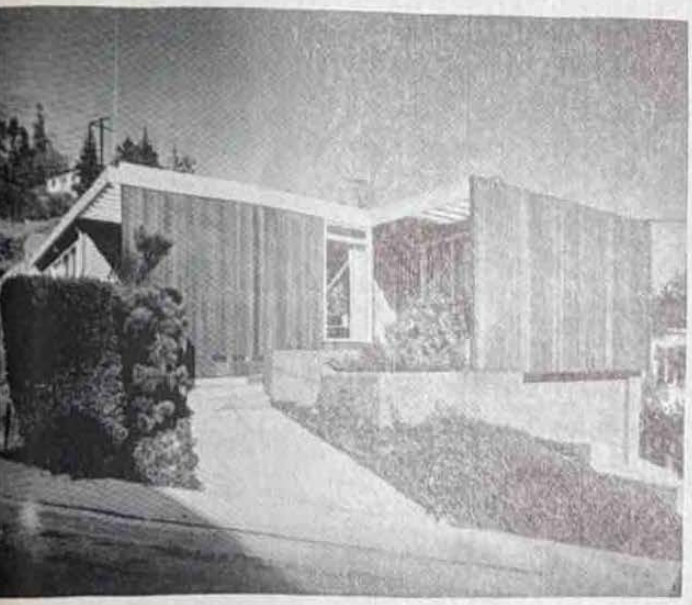
Cabinets: Flush pine doors and drawer faces, chrome sphere pulls, kitchen; hardwood veneer faces, doors and drawer faces, elsewhere.

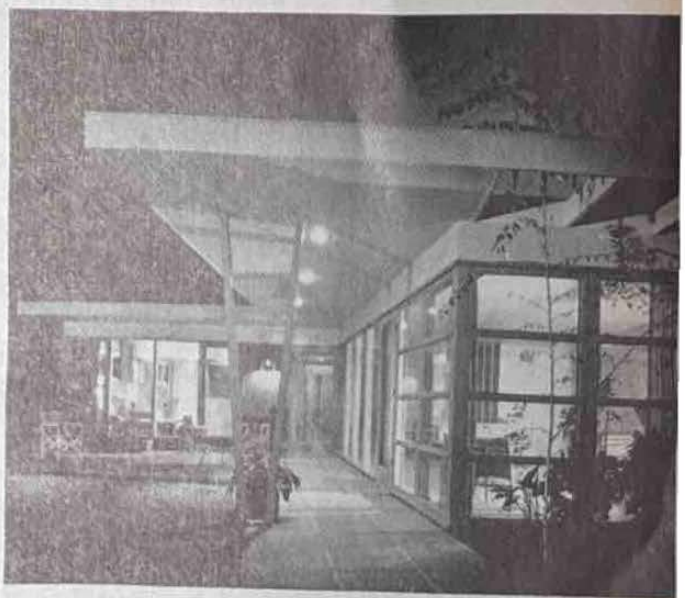
Heating: Gas fired forced air system (Janitrol).

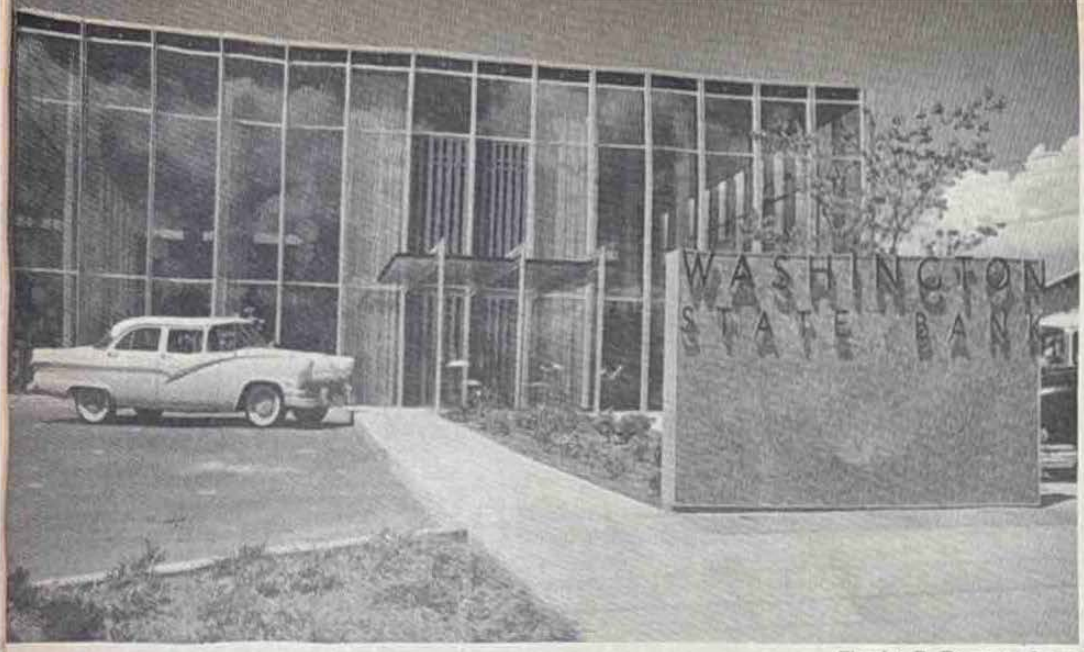
Lighting: Remote control system (General Electric).

Total Area: 1,700 sq. ft.

GARAGE is on lower level to conform with building requirements imposed by slope of street. Shelf cut out of hillside provides level outdoor living area in rear.







Charles R. Pearson photos

Banking showcase by night and by day

MITHUN & NESLAND
RIDENOUR & COCHRAN ASSOCIATES
Architects

DONALD G. RADCLIFFE
Structural Engineer

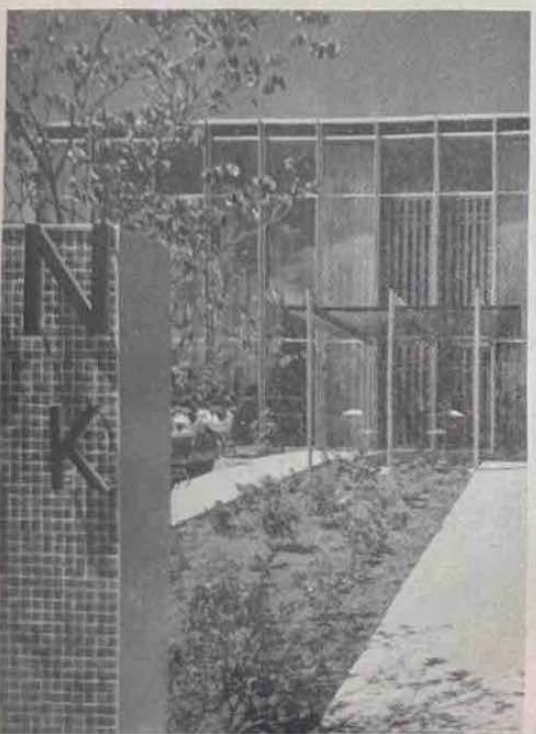
STERN & TOWNE
Mechanical Engineers

THOMAS E. SPARLING
Electrical Engineer

WICK CONSTRUCTION CO.
General Contractor

Bellevue Branch, Washington State Bank
(sold to Seattle-First National Bank)

SIGN PIER is covered with Italian glass mosaic tile in blue-green, in same color range as heat absorbing glass walls; letters and steel channel fascias are black-brown; aluminum mullions are silver.



THE CLIENT, with whom the architects worked closely in the plan function of the building, desired to take a small community banking operation from behind a formal stone front and display it as a personal, friendly activity before the public. These factors, plus heat and glare control, led naturally into the building solution.

It was found that most glare is caused by the contrast of bright light in window areas against the dark wall areas. As in a cave, the opening is painfully bright while the side walls are too dark for vision. As the opening is increased more and more, the contrast is lessened, much as standing outdoors under a tree or an umbrella is more comfortable than in the cave.

The major design problem was light control. Direct east and south sunlight through heat absorbing glass appeared too bright for comfort. Partial glazing with obscure panels on south and east elevations was investigated, but the problem of severe light contrast would have been created. In all existing large glass installations, the use of partitioning, obscure wall areas, dark materials and colors underscored the problem of extreme contrast. It was finally decided to leave the glass box completely unobstructed, with light color surfaces, and use heavyweight fiberglass boucle drapes to diffuse the direct sunlight and "close" the bank after hours.

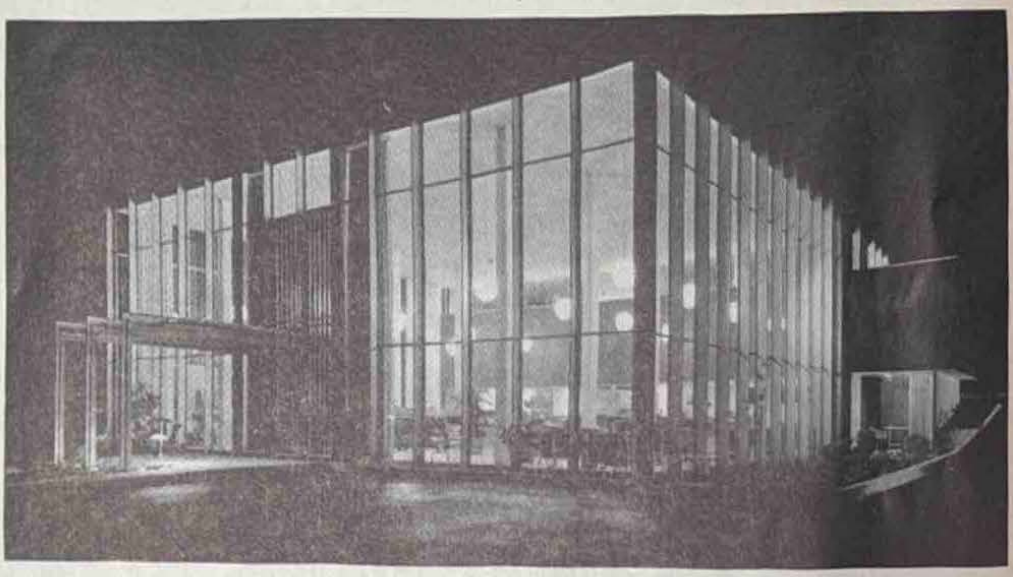
Heating and cooling in operation have been substantially less costly than in a typical fenestrated building.

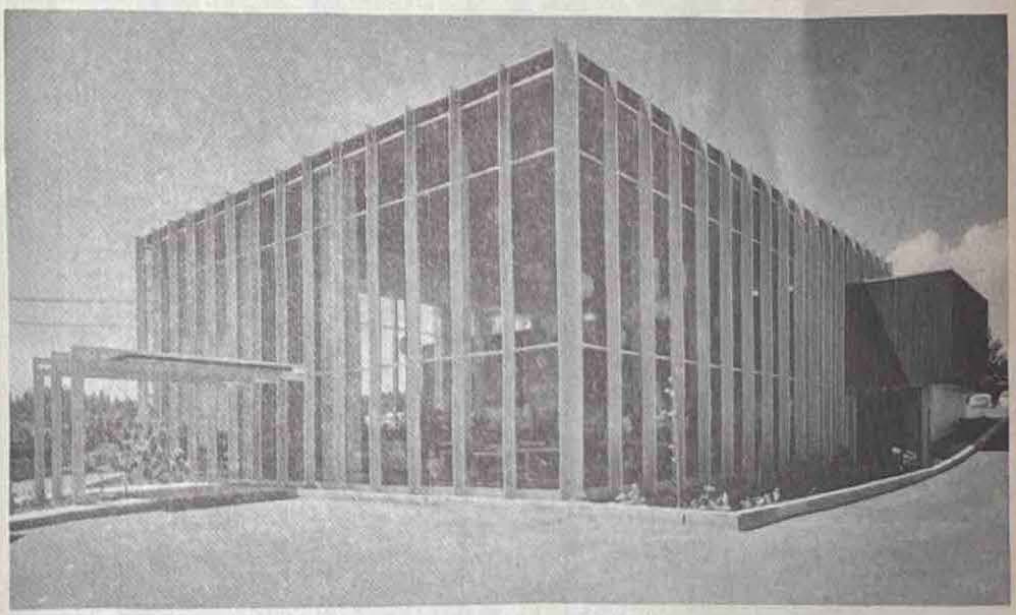
In the summer this is principally due to the reflectivity of the glass and the lack of heat from artificial lighting. The cooling system's capacity is equal to the heat output of the lighting fixtures which are not used when sunlight is available. During banking hours the white draperies have seldom been used on the east elevation and only occasionally on the south to diffuse direct sunlight caused by this reflection. Even with limited fall sunshine the heating costs have been average or better.

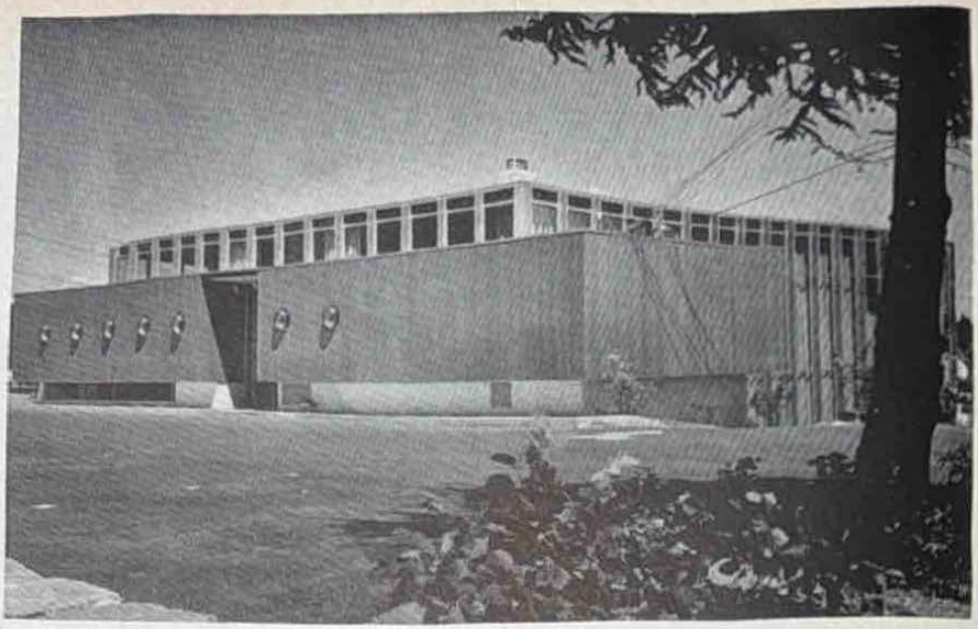
The cost and technical problems involved in the glass installation were solved collectively by the manufacturers and the designers. The glass producer has rigid requirements for sash clearances and expansion provisions because of past problems with double glazing units containing heat absorbing glass; the basic esthetic requirement was for deep, thin vertical mullions at 4 ft. o.c. Steel was selected from the standpoint of greater strength to produce members as light and graceful as possible. The vertical mullions were fabricated from light steel beams with the outboard flange removed and a round bar substituted, with the resultant section modulus the minimum required to resist horizontal wind forces only.

The windows are clamped between vertical mullions so that thermal expansion of glass and steel sash can occur both horizontally and vertically. The mullions are welded to the edge of the roof structure and connected by slip joints only at the base. This permits the roof to deflect from snow loading without placing compression stresses on the vertical mullions and provides the sash slip behind the mullion with enough top clearance to avoid transfer of compression stresses to sash and glass. The roof structure is cantilevered from steel columns placed well behind the outside walls, purely a curtain type hung from the top of the roof.

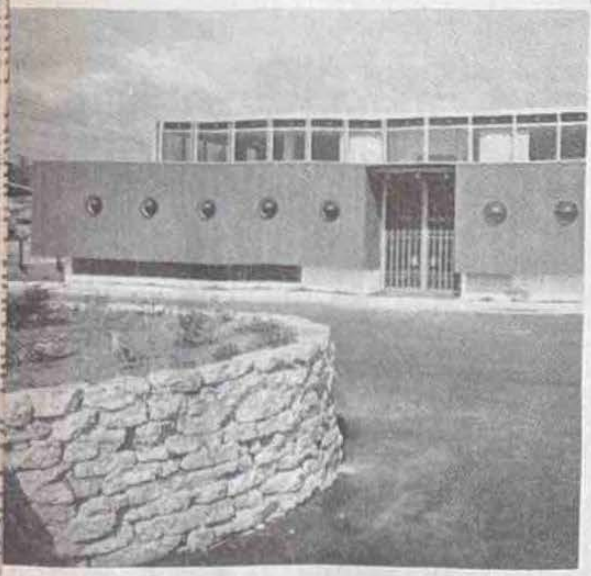
HONOR AWARD goes to project in 1957 design competition of Washington State Chapter, AIA. Jury comment: "Particularly impressed with this glass and steel cage design for modern banking facilities."



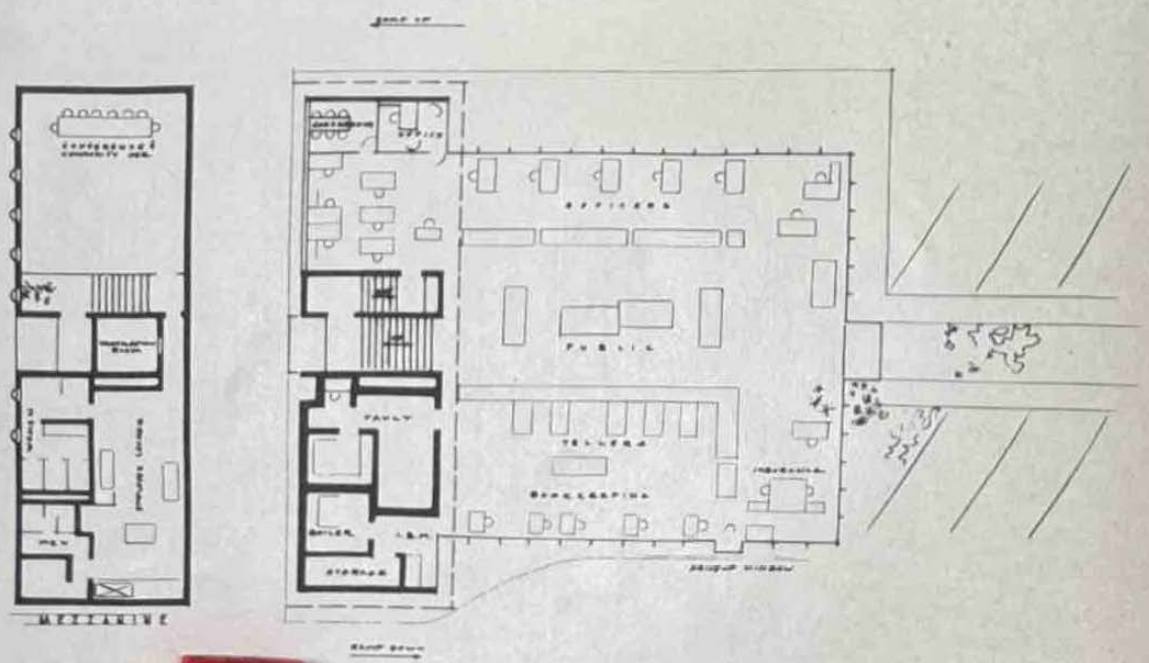




CONCRETE WALLS at parking lot entrance are painted white, redwood siding is black-brown. Blue-green plexiglass bubbles match heat absorbing glass. Dots in brown roof spandrel are aluminum midget louvers for ventilation. Entrance door grilles are walnut. Architect-designed sofa is upholstered in blue-green fabric.









TOP TWO PHOTOS SHOW how white fiberglass boucle drapes "close" bank after hours. Ceiling is light tan asbestos fiber, asphalt tile floor is white with black flecks. Architect-designed bank fixtures are walnut plastic laminate with aluminum extrusion frames and perforated stainless steel sheet metalwork. Upholstery and fixture panels are orange, yellow, blue, pumpkin, turquoise and white.



OUTLINE SPECIFICATIONS

Structure: Concrete and steel on reinforced concrete spread footings, 1 story and basement, 60x60 ft. (main banking area).

Exterior Walls: Poured concrete with white Zolatone, blue-green heat absorbing glass (Libby-Owens-Ford Thermopane) in steel sash (Fentron), black-brown redwood siding; steel, walnut trim.

Roof: Flat, long-span galvanized steel decking (T Steel Corp.) with built-up, water retaining roofing (Johns-Manville).

Doors: Walnut grilles with cathedral glass, exterior; walnut slab, interior.

Floors: Concrete slab covered with asphalt tile (Matico confetti).

Interior Walls: Glass, walnut, plaster on metal lath partitions; steel, walnut, aluminum trim.

Ceilings: Light tan asbestos fiber (Limpet), acoustical plaster.

Insulation: 4-in. fiberglass (Owens-Corning) in walls, ceilings.

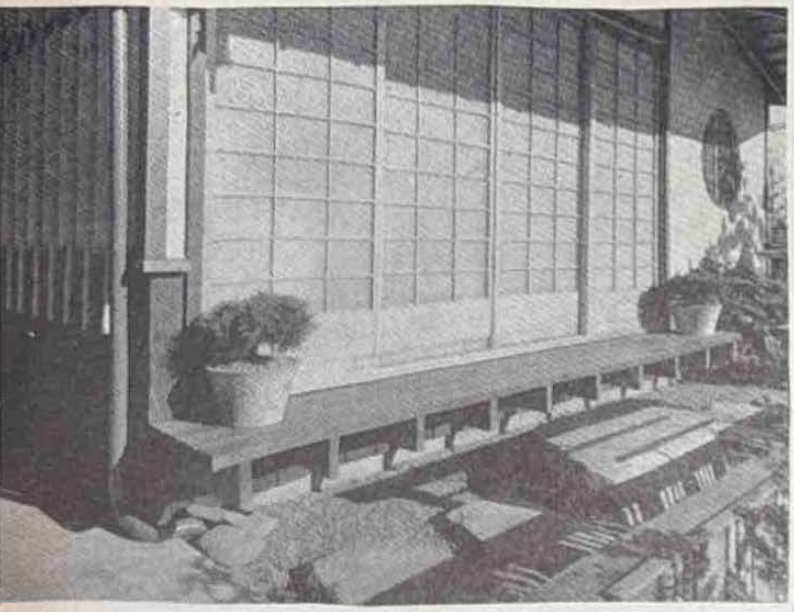
Heating: Hot water, oil fired boiler (American Radiator). Water pumped to heat exchanger in ventilator room; air passes from ventilator unit (Frigidaire) through heat exchanger through buried ducts to heated spaces. On cooling cycle chilled water is run through heat exchanger and cool air is distributed.

Total Area: 7,000 sq. ft.

Date of Completion: June 1956.



Delightful surprise in rear garden space



George Schlenker 'Hanare'
Oakland, California

GEORGE NAKAHARA, AIA
Architect

HAROLD SPEAGLE
Contractor



SLIDING SHOJI PANELS open onto small landscaped garden of miniatures. Architect designed Japanese ash storage cabinet with door for spools of thread; thus machine and other equipment are hidden when not in use.

SPACE RESTRICTIONS proved to be the greatest challenge in designing this "hanare" or supplementary dwelling in the traditional Japanese style. The architect had only 350 sq. ft. of irregular garden space in which to produce a combination sewing room and small apartment for overnight guests. The plan specified 3-ft. modules and construction of bamboo poles, with three of these at the ridge serving as the actual roof structural members.

The main sewing room was squared off, with partitions dividing the remaining space in the angled areas into a bathroom and storage compartment. One entire wall contains architect-designed built-in cabinets and work space for the sewing machine and equipment. Separating the bathroom from the sewing area is a partition which the architect faced with what he calls "tokonoma" and "chigai-tana" recesses in which floral arrangements can be displayed. The third wall is used for the storage compartment, against which is placed a low bed. The 12½ feet of the fourth wall is made up of sliding shoji screens providing access to a small garden landscaped by Mario Iwamoto. The project was built for $20 per square foot.





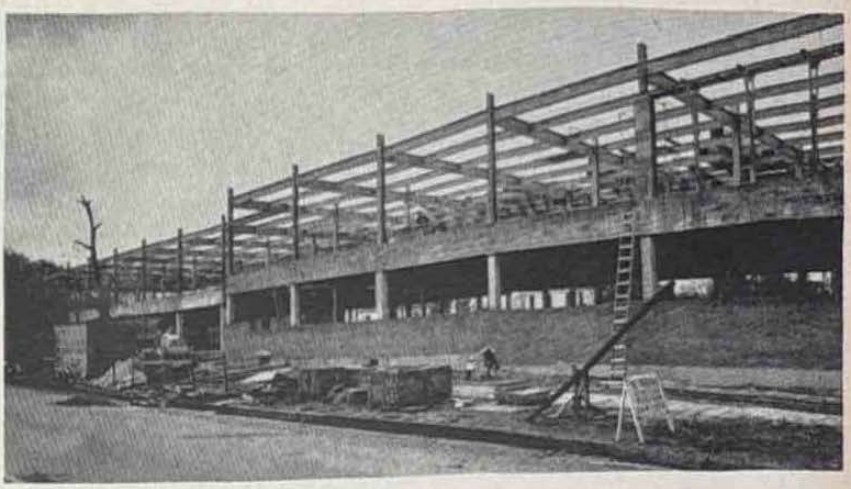
SECTION OF ROOM planned for guest use has bed and storage section seen behind sliding doors. Entrance is through wall adjoining main residence.

Phil Fein photos



HIGH TENSILE BOLTS

cut erection time, cost on Idaho job



FIRST BOLTED STRUCTURE in Boise, Idaho, is two-story State Office Building (two more stories will be added later), using 680 tons of steel. Two-man team can bolt as many joints per day as four-man riveting team.





SCARCITY OF RIVETERS has accelerated the trend toward high tensile bolting of steel structures. The ease with which workers can be trained to make bolted joints is as important to steel fabricators and erectors as economic advantages in the shift to bolting.

Typical of jobs where bolting has taken over for rivets is Idaho's new State Office Building. Boise is off the beaten track of steel construction workers, and architects Hummel, Hummel & Jones figured that delays in rounding up riveting teams would hold up job progress. Thus they accepted bolting as an alternative method in the basic riveted design of the two-story structure.

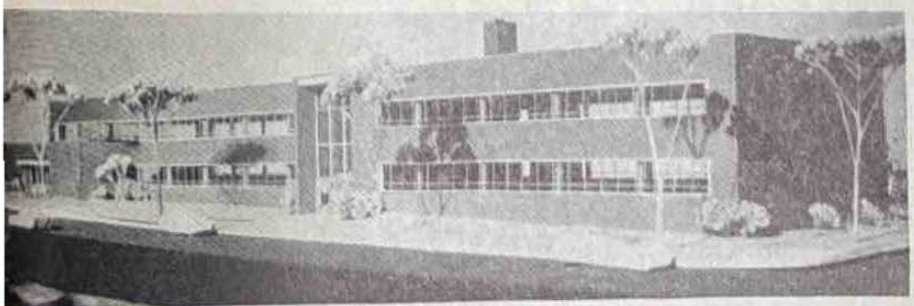
Gate City Steel, Inc., which was awarded the contract for fabrication and erection of the 680 tons of steel in the building at the end of 1956, cut erection costs $4 per ton and erection time by an estimated 25% using high strength bolts produced by Russell, Burdsall & Ward. Steel was detailed, fabricated, erected and the Cellufior was placed and welded by May 4. This was done despite the shortage of structural steel and an unusually severe winter that delayed pouring of foundations. Steel was actually fabricated completely and stored for 23 days pending the pouring of footings.

Two-man teams, employed by erection subcontractor N. P. Mettome, were readily trained in bolting techniques. Each team averaged 350 bolts per day, the same rate expected of a highly trained four-man riveting team.

Both air-impact and hand torque wrenches were used to tighten bolts. Tightening torque is critical since the strength of the joint depends on preload tension in the bolt. Air-impact wrenches used on the job were calibrated twice a day. Gate City's chief engineer John Griffiths reports that not a single bolt had to be replaced on the job.

As is most construction work where high tensile bolting has been used, the Boise project was designed for rivets. Substitution of bolts was possible because the quenched and tempered steel bolt (ASTM A325) is actually stronger than a rivet. Joints fastened with high strength bolts outlast others in fatigue, tension or other applied stresses.

In joining structural members, the function of a high strength bolt differs from that of a rivet. The only stress in properly tightened bolts is the preload applied in torquing up which keeps the nut tight and the joint rigid. External load doesn't affect stress in the bolt or generate cycle loading. Therefore, superior resistance to fatigue and shear stress is academic. By transferring failure point from the net to gross section, the clamping force of high strength bolts stiffens joints and changes the weak element in design to the strong one.



Materials – Products – Tools

and the latest literature

STEEL BOOTHS: Built primarily to solve problems of traffic control, admission control and money collection systems, three newly designed standard prefabricated steel booths are used for drive-in theaters and banks, parking lots, gas stations, bridges, civil defense, construction control and transit control. Taller & Cooper models include single-, double- and multi-lane installations, the latter consisting of several booths under a single canopy and completely equipped to serve one or two lanes with work space for one or two collectors. — Taller & Cooper, Inc.

(Item No. 1)

MAILBOXES: Design of apartment house mailboxes, approved by the U.S. Post Office Department, now makes it possible to remove large magazines from the individual tenants' compartments without tearing. Each compartment door opens from top to bottom and reportedly even the largest magazines slide out without injury to covers or pages. The boxes are supplied with from 3 to 12 compartments to a frame; for more than 12, frames are joined together.—Auth Electric Co., Inc.

(Item No. 2)

ANTIQUE GLASS: In keeping with the trend toward more imaginative types of colored glass, particularly in residential work, Mondial has introduced for the first time in the U.S. two rolled glass patterns—Roundel in a soft circular design and Lozenged in a distinctive diamond design. Both let light in, but assure privacy. They come in clear or gold tints in a maximum size of 48x100 in. — Mondial United Corp.

(Item No. 3)





BELL SHELLS: For churches where the shape of a traditional cast bell is desired, either for its tone or architectural effect, but where the cost of a bell or lack of tower strength will prohibit its installation, Schulmerich has developed bronzed aluminum bell shells. Finished in a bronze color, they weigh just a few pounds and come in three sizes: 20 in. in diameter by 16¼ in. high; 29 by 23¼ and 40 by 32½. The four bell shells shown in the photograph are a duplication of the shape of the Liberty Bell on the lawn.—Schulmerich Carillons, Inc.

(Item No. 4)

ACCORDIAN DOOR ACCESSORIES: To provide the architect with a maximum degree of room arrangement, flexibility and door control, a cremone bolt locks the Hufcor accordian door top and bottom, whether in closed, open or any predetermined intermediate position. Normal hardware allows such locking in only the fully closed position. Bolt is completely concealed within the door stile post. Operating handle and escutcheon harmonize with the balance of the hardware. Another accessory, a three-way glide switch, provides for the stacking of a number of doors against a wall when not in use.—Hough Manufacturing Corp.

(Item No. 5)

PLASTIC GRID PANEL: An all-plastic grid sandwich panel for curtain walls and skylights minimizes the problem of thermal instability found in assemblies of dissimilar materials. When faced with reinforced plastic sheets, an entirely homogeneous unit results, offering great strength, light weight, controlled translucency, insulation and pattern. The panel is being produced in sizes up to 48x120 in. for use in curtain wall applications and integral roof systems and as a complete skylight unit with perimeter flashing permanently bonded for both curb mounting or mop-in systems. U-factors vary from .04 to .05; light transmission can be specified from 5 to 60%. Panels will withstand normal uniform roof loads with large safety factors.—Design Industries.

(Item No. 6)

Latest Handbooks, Manuals and Literature

Yours for the Asking

SCHOOL STAGE LIGHTING: A complete set of recommendations for the basic layout of stage lighting and control equipment for the modern school has been assembled to guide architects, engineers and administrators. The 12 pages are divided into four parts: underlying principles which form the basis for planning the installation and selecting the equipment; schematic layouts that show in plan and elevation the locations of the various items of equipment; a set of explicit schedules, in both general and engineering terms, of the equipment needed for three common size classification of stages, each for three types of budgetary conditions; and condensed descriptions of Hub equipment particularly suited to use on school stages.—Hub Electric Co.

(Item No. 7)

ASBESTOS-CEMENT SHINGLES: Highlight of a manual on application of asbestos-cement roof shingles is a section devoted to the latest development —the new method of applying such shingles to low slope decks. By using this method of interlacing underlayment material — asphalt felt — between courses of shingles, a waterproof roof can be obtained even at an extremely low pitch.

Illustrated with detailed drawings, the 12-page manual gives instructions

covering every aspect of application from a general discussion of the various types of designs available through necessary accessory materials, special tools, job planning, preparation and application on the many different kinds of roofs. It has an alphabetically arranged index. — Asbestos-Cement Products Association.

(Item No. 8)

WATERTIGHT MASONRY: In discussing the important elements involved in the construction of waterproof masonry, this six-page folder covers mortar ingredients and proportioning; campatibilty of brick and mortar; control of shrinkage and bleeding; separation cracks; effect of mechanical disturbance; and the importance of proper protection. Specific reference is made to Omicron Mortarproofing in providing a cohesive plastic mortar. —The Master Builders Co.

(Item No. 9)

BATHROOMS: AllianceWare has issued two publications on its Permasheen porcelain-on-steel plumbing fixtures—a 12-page product line catalog and a 16-page consumer booklet. Actually the latter is of interest to architects and builders because of the bathroom arrangements sketched, with alternate floor plans for each.—AllianceWare, Inc.

(Item No. 10)

FIRE PROTECTION: More and more, fire protection officials are prevailing on architects and engineers to provide intelligent and imaginative solutions on the drawing boards to this increasing problem. Here is an eight-page booklet which explains how an investment in automatic sprinkler protection can amortize itself out of insurance savings and bring many other economic benefits. Cited are examples of systems which paid for themselves in from 2½ to 8 years.—Automatic Sprinkler Corporation of America.

(Item No. 11)

COLLEGE LABORATORIES: "Designs for Laboratory Living" does more than simply describe installations of Standard Electric's Flexlab distribution system in more than 100 colleges and universities across the country; it also serves as a general reference for school architects, engineers and administrators in that it indicates the trend of such design, including lighting, layout, machinery, etc. The 120 pages give complete details of power supplies, methods of distribution within the laboratory and terminal facilities as well as descriptions of components. Every type of laboratory is shown.—Standard Electric Time Co.

(Item No. 12)

MOULDINGS: "Minding Your Moulding Manners" is a folder which fits into a No. 10 envelope but it is packed with bits of useful information. Primarily it shows how mouldings may be used in interiors and exteriors to accomplish such effects as stressing lines of direction, creating textures and patterns on otherwise flat surfaces, increasing visual attraction of flat planes in architecture and new functional applications. Woodworking procedures designed to simplify installation are illustrated. — Western Pine Association.

(Item No. 13)

WALL ENAMEL: "Plextone Specification Data for Architects" is a looseleaf booklet bound in a leatherette cover, featuring 30 actual color sprayouts of multicolors offered in this interior wall enamel. It is intended not only as an aid in specification work, but also for use in client presentations. —Plextone Corporation of America.

(Item No. 14)

CURTAIN WALL DESIGN: "Design Manual, Part 2, Porcelain Enamel in Architecture, Curtain Wall Construction" is an unusually attractive and informative 28-page booklet, with photographs of a number of installations, some in full color. Each is accompanied by section details and such technical data as weight, U-factor and color of panels.—Porcelain Enamel Institute.

(Item No. 15)

HARDWOOD FLOORING: A leaflet designed for the contractor and floor layer is divided into two parts. The first contains suggestions for the installation and care of northern hardwood flooring, with special emphasis on the allowance for expansion, damp season ventilation and preliminary handling of flooring before laying. The second part contains a list of simple precautions to take in handling hardwood flooring at the jobsite. The leaflet also lists the sizes and kinds of nails recommended.—Maple Flooring Manufacturers Association.

(Item No. 16)

DRAFTSMAN HINTS: How to speed drafting and computation work is described in "Time Saving Tips for the Draftsman and Engineer" which incorporates 59 shortcuts submitted by 52 contributors. Clearly written and well illustrated, the 34 pages show new approaches to old problems. For example, the section on "Calculating Ideas" contains 10 tips including easy ways of remembering the signs of trig fractions, dividing a circle into parts and locating decimal points. Eighteen suggestions are listed under "Board Timesavers."—Frederick Post Co.

(Item No. 17)

VERMICULITE CONCRETE: A digest of the report covering a test program to demonstrate the adequacy of vermiculite concrete as a horizontal diaphragm is available in booklet form. The testing was conducted by S. B. Barnes, consulting structural engineer of Los Angeles. A research recommendation of the International Conference of Building Officials is included in the brochure.—Vermiculite Institute.

(Item No. 18)

INSULATION METHODS: A 12-page brochure for home builders describes proper methods of installing insulation and a solution to the paint peeling problem. Included are 20 sketches and 11 photographs.—Owens-Corning Fiberglas Corp.

(Item No. 19)

ALUMINUM BIBLIOGRAPHY: Alcoa has compiled a selected bibliography from its library for designers and design engineers in the metalworking industry. All available literature and motion pictures are listed.—Aluminum Company of America.

(Item No. 20)

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

AUGUST 1957

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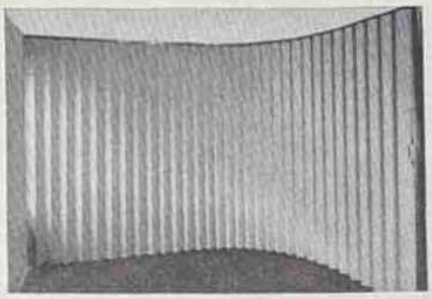
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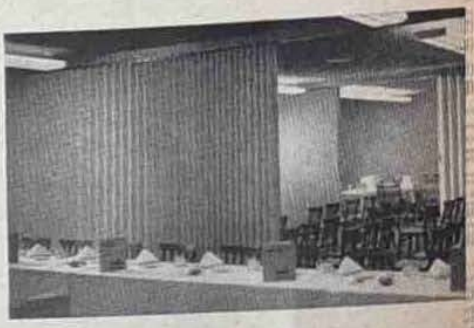
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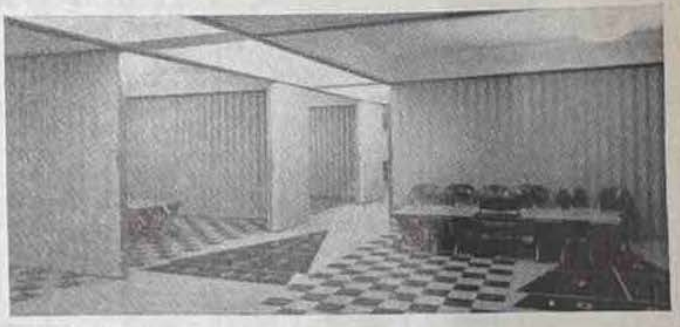
"Knockable" Hufcor covers are made of 5-ply laminated vinyl and tough, high strength fiber board. Distinctive handle latch of anodized aluminum is unique both in appearance and function—a Hufcor exclusive.



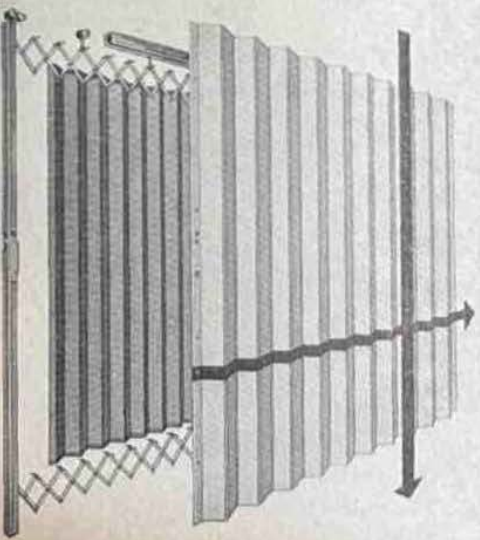
Hufcor accordion doors on curved track operate easily and uniformly without alteration. There is no binding.



Complete areas can be closed off with the trim, rigid Hufcor. No need to fear damage from large crowds or active children. Hufcors move easily by hand.
Valley Ho Hotel, Scottsdale Arizona.
Architect: E. L. Varney & Associates.



New areas can be made from old with Hufcor. Pivot switches, glide switches, multiple meeting posts, rolling posts, recessed channel, and other accessories all provide complete flexibility for room division. Mt. Calvary Lutheran Church, Janesville, Wis.
Architect: R. H. Bierman, Milwaukee.



This exploded view of Hufcor shows the simplified, trouble-free, pantograph system. The straight, rigid lines of the covers make Hufcor the "architecturally correct" door.

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PA&B T-square talk

NEW ASSOCIATES: Don S. Wallace and David A. McKinley Jr. are new associates in the Seattle architectural firm of Paul Hayden Kirk & Associates.

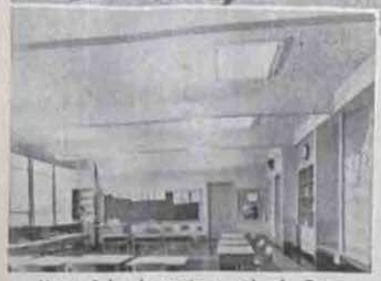
PARTNERSHIP DISSOLVED: Gehres D. Weed has purchased the interest of Robert E. Fehlberg in the architectural firm of Weed & Fehlberg, Kalispell, Mont. Weed will continue to practice in the Sundelius Building under his own name; Fehlberg has opened an office in the Glacier Building.

ON THE MOVE: The Billings, Mont., architectural firm of Loners, Stroebe & Johnson has moved to 511 N. 31st St.

NEW PARTNER: Architects Walter E. Church, Earl P. Newberry and Frank Roehr have added a new partner, Kurt P. Schuette, to their firm, which will be known as Church, Newberry, Roehr & Schuette. Their offices are at 619 Builders Exchange Building, Portland.

LIBRARY ADDITIONS: The library at California State Polytechnic College's home campus in San Luis Obispo has acquired 217 rare architectural reference books, photographs and illustrations, according to George Hasslein, head of the department of architectural engineering. The collection has been donated by a college sophomore, Flemen Hardy Jr. of San Francisco, who received the volumes through Harold Wagner, former architect and currently an investor in the Bay city.





Memorial elementary school, Burlington, Mass.; Architects: Edgar T. P. Walker & Theodore B. Hanna, Boston; Contractor: Joseph Rugo, Inc., Boston



Pleased Community Orders Another of the Same

"Rilco laminated-wood beams were an extremely successful part of the structure" in keeping the construction bid below the budget — "roof framing over one 10-classroom wing was erected by three pair of men in four days." And wood's inherent beauty meant economy: "laminated-wood beams were left exposed throughout the school."

And the "town approved," says the architect; "We are now building another similar 20-room school."

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California, Northwest set annual AIA meetings

October will be the month of AIA annual meetings for both the California Council and the Northwest Regional Council, comprising Oregon, Washington, Idaho and Montana.

In California

The Californians, gathering near San Diego at Hotel del Coronado October 2-6, for their 12th convention, will hear R. Buckminster Fuller deliver the keynote address on "Design Through Structure." A seminar devoted to the same topic will have architect Felix Candela of Mexico and California engineers Edgardo Contini and Richard Bradshaw.

Another broad subject, according to chairman Wallace Bonsall of Pasadena, will be the architect's role in urban development, with such speakers as city planning consultant Charles Bennett of Los Angeles and landscape architect Lawrence Halprin of San Francisco.

The annual meeting of the California-Nevada-Hawaii Regional Council will be held during the statewide sessions.

In Northwest

"Expanding the Profession of Architecture" will be theme of the Northwest's sixth regional conference at Gearhart, Ore., October 17-20, with John Dukehart of Portland as chairman. Guest speakers announced thus far are Jose Louis Sert, dean of the Graduate School of Design, Harvard University; Thomas Creighton, editor of Progressive Architecture; John Knox Shear, editor of Architectural Record; Leon Chatelain, national AIA president; and San Francisco architects Henry Hill and Francis Joseph McCarthy.

Briefly noted (Cont'd from p. 10)

• A bid date registry has been set up at the Portland Builders Exchange Cooperative in cooperation with the Oregon Chapter, AIA, and its committee on relations with the construction industry, headed by Harry Stevens. Two or three weeks before an architect intends to put a project out for bids, he will call the exchange's executive secretary to determine what bid due dates are open. He will then register the probable date and hour he will open bids. On larger jobs it is recommended that two or more sets of documents be filed.

• Named to serve on a seven-member design standards advisory board in developing the projected Civic Center and World's Fair in Seattle are four architects: chairman Perry B. Johanson, John S. Detlie, Robert H. Dietz and Paul Thiry.

• Los Angeles' squatty skyline will be soaring, but that's not all. Downtown land values have almost doubled since last November when voters repealed the 13-story height limit law, results of which will be seen shortly, following city council action to create an ordinance setting up skyscraper zones. The law is expected to take effect by early September.

• A total of 14 enormous concrete slabs, 36 ft. high and weighing 27 tons each, now form the walls of a three-story building on Mission between 10th and 11th streets in San Francisco. "There have been some heavier slabs," explains structural engineer Byron Nishkian, "but these probably cover the greatest area of any ever used in the West."

The reinforced concrete slabs were made at the site and raised into place by a 40 ton rigging truck. The building is being constructed by Williams & Burrows, Inc., of Belmont and the use of the slabs, each of which cost $1,000, may save 50% in costs."

An architect's sabbatical leave in Italy (Cont'd from p. 21)

for newly conceived neighborhood centers to counteract the disrupting effect today's inventions are having on community life.

The marvelous vitality of great Italian squares such as St. Mark's in Venice is known worldwide but in its most genuine form (free from the tourist influence which makes of Venice, particularly, a sick thing) it was only made fully evident to me one evening in Sassari. Walking across this compact northern Sardinian town of about 60,000 people, we passed through Piazza Garibaldi on our way to dinner. It was about eight o'clock and the square was already jammed with people of all ages walking vigorously in the first chill of fall. They were walking around the somewhat square square in two different rivers of people but the men in one direction and the girls in the other—the better to observe each other.

The animation and spirit was simply electrifying: interplay among the younger ones; political discussion, sports argument or just plain friendly conversation among the already married ones; running and jostling among the children who were there too—all made a vision of a civic life still healthy, coherent and unspoiled by some of our recent "improvements." It made an overwhelming impression.

This is what the Italian designers are attempting to save in their tremendous rebuilding effort today. So far the results are negligible in this respect but judging by the state of mind pervading the planning professions now, I think they will succeed.

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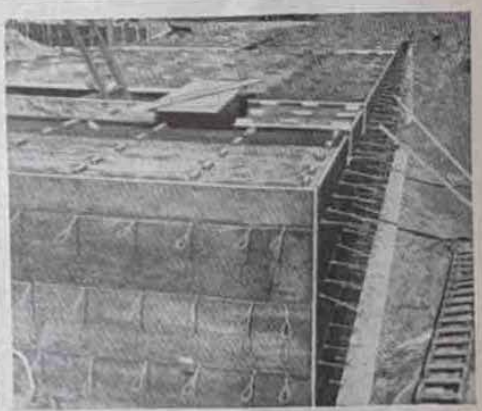


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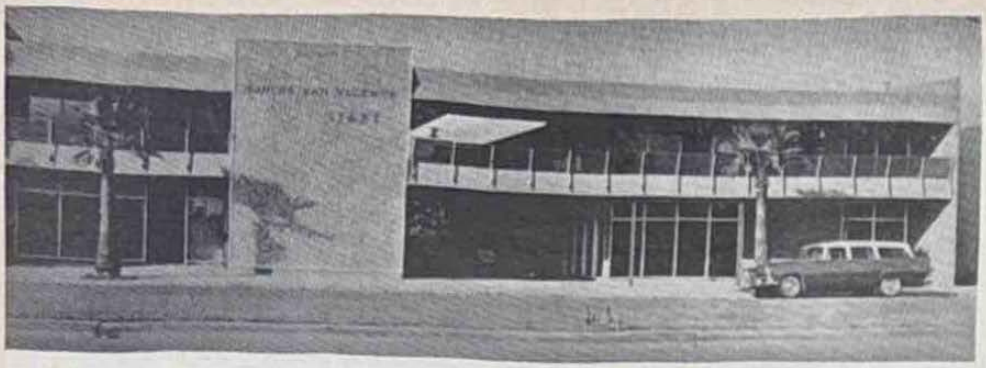
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PA 8/57



FACADE IS DOMINATED by panel of multicolored Italian glass mosaic standing 22 ft. high and 16 ft. wide; balconies are lined with perforated sheet steel, capped with steel railings.

Manufacturer shows off movable interior walls

A $200,000 headquarters office building completed in West Los Angeles for Wayne Vaughan & Co. serves as a showcase for a new system of movable interior drywalls originated by that firm.

Designed by architects Spotts, Candreva & Jarrett and built by general contractor P. E. Philbrick, the structure has 15,000 sq. ft., including individual balconies. Basic construction combines steel and wood framing with a stucco exterior. Free-standing steel staircases, integrated with the landscape planning, grace the front and rear of the interior courtyard, and a parking area is accessible from both front and rear.

Office corridors throughout are of Vaughan movable interior walls fabricated of multi-ply gypsum panels laminated together in any of several thicknesses. Electrical raceways are installed flush with the finish base. Panels 2 ft. wide and beveled at the vertical joints are finished in a variety of colors and surfaces—wood laminates and vinyl plastics—as well as more conventional coatings. They can be refinished at will.

PA&B Suppliers

- **Fibreboard Paper Products Corp.** of San Francisco has a new vice president, E. W. Carey, long-time executive of U. S. Gypsum Co.

- **Wiley-Bayley, Inc.,** Northwest distributor of Styrofoam, has opened a warehouse in Spokane at E. 41 Gray St.

- **Sunbeam Lighting Co.** has named Henry Gluck as national sales manager, with headquarters in Los Angeles.

- **Bethlehem Pacific Coast Steel Corp.** has received the National Safety Council's award of honor at its plants in Seattle and South San Francisco.

- **W. P. Fuller & Co.** has made these appointments: B. N. Gibson from glass contract sales manager to branch glass sales manager in Honolulu; George R. Callahan from glass contract sales de-

Up to 8 phone outlets in newest homes!...



Joseph A. Romano, well-known Fresno, Calif., contractor, likes to make sure his homes meet buyers' needs in every way. His custom-built homes, in the $21,000-$65,000 class, include 5 to 8 telephone outlets.

To Mr. Romano, complete telephone planning is a *must* in quality home construction. Buyers look for it, and in Mr. Romano's own words, "Meeting customers' demands is one of the best ways to successful selling. That's why some of my most recent homes have as many as 8 telephone outlets." And it's also why other leading Western architects and builders include concealed wiring and plenty of phone outlets in their original plans.

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partment in San Diego to glass contract sales manager in the San Francisco headquarters; Elwood Buck from glass manager at Honolulu to sales manager of Trimview Metal Products, fabricating division in Covina, Calif.

• **Weber Showcase and Fixture Co., Inc.,** of Los Angeles has a new executive vice president and general manager, Alexander Black. He formerly was vice president in charge of sales for San Diego's Solar Aircraft Co.

The company's store fixture, Weber-Wall partition and laboratory equipment divisions has elected E. O. Stevenson as vice president in charge of sales.

• **Zonolite Co.** held its seventh annual Northwest sales meeting in Portland July 17-19, with three engineers —Jack M. Lyerla of Spokane, Roland Rose of Portland and Gilbert H. Mandeville of Seattle—heading a panel on roof design and construction. William Culver, manager of Vermiculite-Northwest, Inc., was general chairman of the three-day meeting.

• **Mayfair Sales of California** has been organized at 206 W. Palm Ave., Burbank, to introduce the Mayfair line of horizontal sliding aluminum windows, single hung windows, aluminum awning windows and jalousies to that state. Heading the operation as vice president in charge of sales is Oran Schultz, formerly an area sales manager of Arcadia Metal Products.

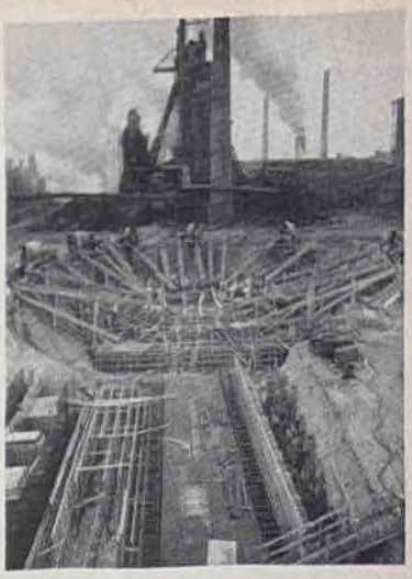
• **Pack River Tree Farm Products** of Spokane has named Louis A. Patronsky, for the past four years in a similar position with Wabash Screen Door Co. of Minneapolis, as product development engineer.

• **Mutual Materials Co.** has opened a branch location in Kenmore, Wash.

• **Standard Steel Corp.** of Los Angeles has named Edward J. Meier to the newly created post of advertising manager.

• **Pomona Tile Manufacturing Co.** of Pomona, Calif., has commissioned five designers—Saul Bass, Paul Laszlo, Dorothy Liebes, Paul McCobb and Millard Sheets—to produce patterns for a new series.

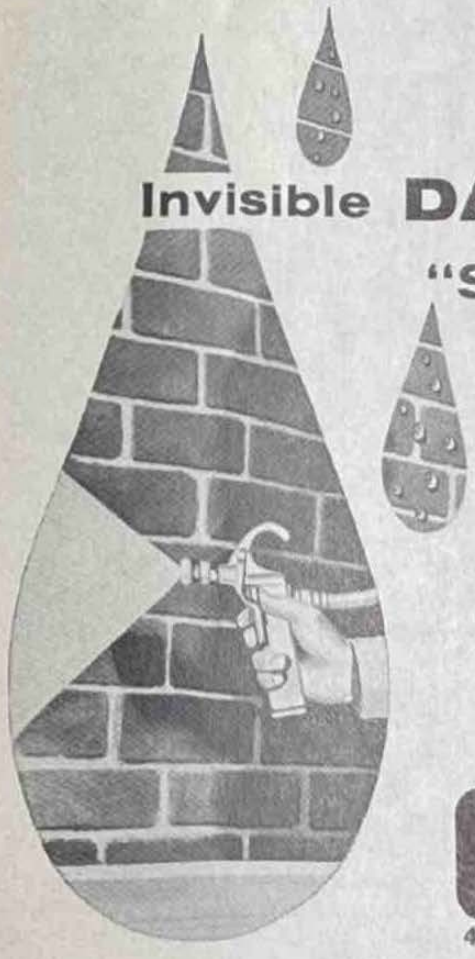
• **Michael Flynn Manufacturing Co.** has appointed Charles R. Malmister, formerly West Coast sales manager of B & T Metals, as western divisional sales manager of its extrusion division.



Pouring for expansion

In a continuous, 2,200 cu. yd. pour, the concrete foundations for Kaiser Steel Corp.'s fourth blast furnace at its Fontana, Calif., steel mill were completed in seven hours and seven minutes. Utilizing 49 transit mix trucks and 13,200 sacks of cement, the pour was finished several hours faster than it took to pour the foundation for the plant's third blast furnace in 1952.

Kaiser Steel's fourth blast furnace,



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part of a $194 million expansion program now in progress, is scheduled to be in operation early in 1958. The entire construction program, the largest plant expansion in West Coast industrial history, will virtually double the firm's steel ingot capacity from 1,536,000 tons to about 3,000,000 tons a year. Upon its completion in mid-1958, the expansion will make Kaiser Steel the largest steel producer west of the Mississippi River.

A description of Kaiser Steel's overall operations, including the construction program now 40% completed, is available in a 34-page booklet just issued by the company.

A new century of architecture (Cont'd from p. 14)

fields is fast becoming a marvelous tool for architectural performance.

Of course, much is yet to be achieved but the next 100 years should bring unheard of developments. In housing with its tremendous potential, the architect has still to make his influence felt because of his lack of motivation and the failure on the part of industry and finance to make him one of the team. When they do we shall see spectacular advances.

Through the new knowledge at their disposal the best architect's imagination is taking wings; he has begun to deal creatively with new materials and finding infinite ways to exploit their possibilities.

There is no question that the competence of the architect as a professional specialist is steadily improving. His prestige will be further enhanced when he will not think of himself merely as a maker of beauty (with a capital B), but rather a serious interpreter who aims to convince as much as to please. The duality of the professional man as an artist and as a technician is a modern phenomenon caused by the fact that art has has become synonomous with the making of pretty images in many instances divorced from life, later to be embalmed in museums. Our society has forced the artist to take a holiday from life and to climb his stairs to the ivory tower, but great art is needed more with us in the streets than in museums and the great artist will emerge without preciousness when he is able to add significance to conviction.

There is no question about the dismal aspect of our cities and suburbs, but it will not be relieved by the cosmetic approach of applied beauty as advocated by some professional humanists. It will be remedied by a greater awareness on the part of all of us of the meaning of the forces which motivate our society and the understanding the average person has of the role that total environment plays in his life and by the courageous applications of many educated and specialized minds to the coordinated solution of its planning.

We no longer believe that the perfect function equals beauty, but we have also learned that no lasting satisfaction can derive where the purposes are not met. And beyond purpose exists the realm of appropriateness, significance and participation with nature, an ever-inspiring source of strength. We are not against beauty but against fixed and artificial images of beauty because from them spring irresistibly the whole cheap array of artiness, from the imitation stone surfaces to the juke box, to the derby hat restaurant and other cuties which line our highways. Too often in the past we have shaped our world by inert images of ideas either dead or contrived from literature. Beauty is not a static quality, not an image to be embalmed, nor a cosmetic to be put on: it is an intrinsic quality of created things, a living quality which respects their nature, their biological and psychological and even practical

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demands, while reflecting and in a sense preserving the mystery which is at the base of all created things, the realm of the spirit and the source of its poetry.

Forgive me if I dwell on this point, but it seems to me that our progress, or if you will, the contribution which our profession may be able to give to mankind in the next 100 years, may well be based on the acceptance of this idea. It is not a new idea but it is well to keep it before us because it is the synthesis of the best we have believed in and created thus far; it makes sense out of the work of our more creative men from all positions and persuasions; it damns the inferior work of the past and the present, the cliches, the cheap, the bizarre; it exhalts the subtle, the understated, the significant, the appropriate; if fully accepted it can penetrate and bring order to the jungle of our urban living, tame and guide the power of our industrial might, ally itself with science in search for the means to give more to man for less of his efforts. That it seems to me is the meaning of the challenge, the opportunity of our profession in the next 100 years.

Those who claim that architecture is a pure and aristocratic art and as such should be free of restraints know deep in their heart that without the discipline of facts and the joyful participation of people it cannot escape the dangers of shallow estheticism. Surely all of us are concerned with art, we all believe it to be the highest expression of the human spirit, but we all hope that it may also be the most respected. We may remind ourselves that the design of the juke box is motivated by the same desire to show off taste, just as some of our modern works at a higher level show off taste. On that basis who shall pass judgment and who shall arrogate the right to impinge himself for his works on the human scene for long years to come? The field of esthetic appreciation is a difficult one to explore because of the subjective nature of its problem and I have no intention of becoming too involved in its discussion. We know that to the artist, all has meaning—an old peasant shoe to Van Gogh, a sober division of space to Mondrian, or an intuitive abstraction to Jackson Pollock.

Scale, color, proportion, space, symmetry, the golden mean, the whole nomenclature by which architecture is justified and described are to be found in basic natural laws and instincts and can be modified, but not ignored.

We speak of human values; of the spirit of humanism. These are real, but up to now they have been exhumed mostly from past experiences. While here is the present and the future — exhilarating, menacing, infinitely challenging, demanding new understanding and the utmost effort from each of us. We take scientists to task for shaking us from the security of our emotions, yet everything that science has given us has increased our opportunities for greater good and for significant action.

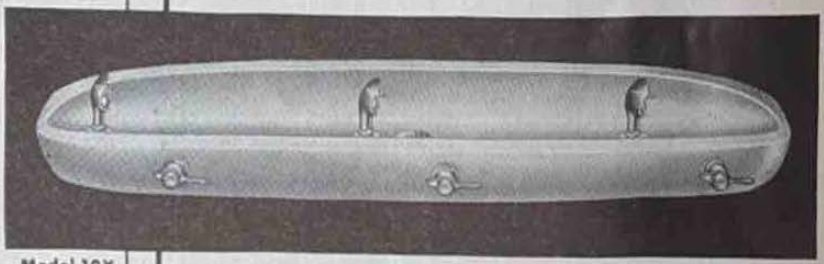
It is our duty in the next century to be in earnest and to grasp these opportunities to guide mankind, toward what is good and significant in its evolving life, and to translate into visible patterns what we have learned from sociologists to be basic in human society; in so doing we shall gain the respect of our political and community leaders with their gift for understanding and manipulating public opinion.

Only thus can architecure of our next century became a way of life and the substance of our culture as it has been in the past. As an art, it will not only show the reasons which have determined its forms but also the human values embodied in those forms. It will also be then less concerned with fashion than in being ap-



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propriate to a GREATER VISUAL ORDER.

It has become clear that in addition to the need to redefine the role of the city and to find the most appropriate use of its land, we must study new ways of organizing human communities in accordance with better defined social aims. As I have said before, some people believe the city to be an outdated community form, that it should be abandoned, with the grass allowed to grow on its streets. That would be the easy way, but many of us are just as sure that cities will always serve basic social needs and in their imperfect ways will never cease to serve social ends; what must be learned are the means—political, physical, and social—through which they may be made to work again as suitable centers of human activity. We must work together and find a common way of attack, to plan ahead, not in the present narrow way, but broadly enough to include the regions which are physically, if not politically, a part of the great city complexes.

We may well remind ourselves that our technological success was made possible by our having learned to work together; the architect as a man of vision can no longer act alone in arrogant self-sufficiency but needs to know and be motivated by a large body of facts which other specialists in many fields can gather and furnish him.

We may remember that while men of genius and a great variety of approaches by gifted individuals are needed to stimulate us, the great body of buildings forming our cities and the very structure of our new communities will be produced by earnest, intelligent, painstaking realists who, by their day-to-day effort, by their ability and willingness to be part of a team and to accept the realities of life, will succeed in making their influence felt in the communal process of giving form to a healthier, happier and wiser society.

Through the economic realities of the American system, architects are learning to make a virtue of what used to be a handicap. A greater concern for economy means now a wider distribution and therefore a greater social impact. This may have been done at the expense of the highest standards, but it has resulted in a great raising of the lowest standards, in a greater sense of what is appropriate and important, in a greater logic of structures and in more thoughtful planning. And beyond these is an obvious acceptance of life in all its richness and variety, in its joys and complexity, and with it a feeling of duty to meet a challenge.

We believe that man's creative powers are nourished by the world he lives in, by what he sees and learns, and that his intellect will never allow him to stand still, nor to accept his conditions as final or perfect. We may observe that nature itself has evolved and continues to evolve countless varieties of living forms and on a different time scale is always experimenting and forever meeting new conditions. Creativity in our difficult age needs to cope with problems of new magnitude. In our school we try to educate men to face new situations, to give answers which are not found in past experiences. For that reason, in educating our young men we are doing two apparently antithetic things: we are breaking down the barriers between the various areas of learning by searching for basic principles, while increasing the scope and demands for specialized knowledge.

In our own school, we believe also that only by assuming such creative responsibility will we make it possible to evolve new standards of beauty. Let's now hope that these years of preparation by our profession may bear fruit in the century which is ahead.

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Construction News Bulletin

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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

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

OREGON

▲DORMITORY, COMMONS BUILDING— Ashland, Ore.

Bids received by Oregon State Board of Higher Education, Earl M. Pallette, secretary (Eugene), at 111 State Hall, Portland State College, 1620 S.W. Park Ave., Portland, for construction of 23,800 sq. ft. men's dormitory and one-story commons building, both reinforced concrete construction, at Southern Oregon College in Ashland. Plans by Church, Newberry, Roehr & Schutte, architects, 619 Builders Exchange Bldg., Portland. Bids opened August 8. LOW BIDS—GENERAL: Graff & James, Box 82, Medford, $368,192; Wiley Co., Box 414, Ashland, $413,500; Waldo S. Hardie, Box 422, Eugene, $417,241. MECHANICAL: McLaughlin Plumbing & Heating Co., Box 141, Medford, $96,590; Stuart Mechanical Co., Inc., 518 W. 6th, Medford, $98,704; Modern Plumbing & Heating, 613 E. Jackson, Medford, $104,461. ELECTRICAL: Steeck Electric, Box 1243, Medford, $25,900; Trowbridge & Flynn, 214 W. Main, Medford, $28,695; Lord Electric Co., 1034 S.E. Water Ave., Portland, $29,9990. KITCHEN EQUIPMENT: Losli Sheet Metal Works, 115 S.W. Montgomery, Portland, $14,149; Dohrmann Hotel Supply Co., 50 N.E. Oregon St., Portland, $15,448; Atlas Sheet Metal Works, 4215 N. Williams Ave., Portland, $16,290.

WB 8-9. Previous report 7-31

●BOILER INSTALLATION— Baker, Ore.

Bids will be opened 8 p.m., August 20, by School District No. 5, Baker County, J. E. Hammon, clerk. Administration Office, Baker, for conversion of existing coal-burning boiler for natural gas, or on removal of present unit and installation of new gas facilities at Central School. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. Certified check, cashier's check or bid bond 5%.

WB 8-10

▲TOILET FOUNDATIONS— Baker, Ore.

Brooks Products, Inc., 5224 S.E. 26th Ave., Portland, submitted the only bid, in the amount of $63 each, for 22 prefabricated concrete slab foundations for campground toilets, fob U.S. Forest Service warehouse, Baker, Ore.; Inv. No. 24. Bids opened August 5 by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.. Oregon St., room 18, Portland.

SP 8-9. Previous report 7-31

■CHEESE FACTORY ADDITION— Bandon, Ore.

Planholders announced for construction of a concrete block addition to the Coquille Valley Dairy co-operative cheese and butter factory at Bandon, on which bids will be opened 12 noon, August 19, in the Coos Bay office of Robert Fisher, architect, 422 Hall Bldg., Coos Bay. Plans with the architects at above address and 220 N.E. Beacon Drive, Grants Pass.

Planholders—GENERAL: Donald W. Thompson, 3421 Stanton, North Bend; Pacific Construction Co., Box 866, Coquille; R. I. Randolph Construction Co., 3815 Welty Ave., Salem; Jack Bruer, 1283 N. 13th, Coos Bay; T. S. and Tom E. Drake, Box 104, Coquille; Sig Andersson, 1371 Bay View, North Bend; B & B Construction Co., Route 1, Box 526, Bandon; R. O. Gallia, 1776 Union, North Bend; Conn-Struction Co., Bandon; Wold Brow, Prosper Road, Bandon. MECHANICAL: Chambers Plumbing & Heating, 282 S. 2nd St., Coos Bay; Schroeder Plumbing & Heating, 272 S. Broadway, Coos Bay; Modern Builders Supply, 6th and Central, Coquille; Bick Plumbing & Heating, 135 Curtis, Coos Bay; Bandon Plumbing & Heating, Filmore and 2nd, Bandon. ELECTRICAL: Earl Carroll Electric, 217 N. Adams, Coquille; Hansen Electric, 245 S. 2nd, Coos Bay; Marshfield Electric, 342 S. 4th, Coos Bay.

SP 8-9. Previous report 8-1

▲HOUSE SHEATHING, RESHINGLING— Bonneville Dam, Ore.

Bids received by Corps of Engineers, Portland office, 628 Pittock Block, Portland, for reconditioning, sheathing and reshingling houses No. 10, 13 and 17 at Bonneville Dam; CIVENG-35-026-57-15. BIDDERS: Lorentz Bruun Co., 7337 S.E. 28th Ave., Portland, $2,925; George D. Welch, 4329 S.E. Windsor Court, Portland, $2,356; R. W. O'Neil, Stephenson, Wash., $3,940. Bids opened August 12.

WB 8-14. Previous report 8-3

HOME FOR BOYS— Brightwood, Ore.

Plans announced by Masonic Lodge of Oregon, Oregon City, for construction of a home for boys (to be known as Snowdon) in the newly opened tract on Zigzag River, near Brightwood. Developer of the new community is A. H. Davies, retired logging engineer, and G. B. Reese of Brightwood. The Masonic home will be adjacent to a community center and shopping area on the 400-acre tract along Truman and Lolo Pass roads.

SC 8-3

●RESIDENCES— Butte Falls, Fort Klamath, Ore.

Bids will be opened 2 p.m., P.S.T., August 26, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., P.O. Box 4137, Portland, for construction of one-story frame residences, one 50'x40', and the other 64'x 30', at Butte Falls Ranger Station, Jackson County, and at Fort Klamath Ranger Station, Klamath County, both in Rogue River National Forest, Ore.; Bid No. 55 (Readvertisement). Plans with supply officer, or with Supervisor, Rogue River National Forest, Post Office Bldg., Medford.

WB 8-10. Previous report 8-2

●REFRIGERATION EQUIPMENT— Clackamas, Ore.

Bid opening extended from August 1 to August 26, by Construction Department of Safeway Stores, Oakland, Calif., for refrigeration equipment in connection with the 542,000 sq. ft. Safeway distribution center to be constructed just east of S.E. 82nd Ave., Portland, and south of town of Clackamas.

WB 8-10. Previous report 7-16

★SAFEWAY STORE— Coquille, Ore.

Award to Supreme Builders, 4232 N. Williams Ave., Portland, no amount announced, by Construction Department of Portland Retail Division of Safeway Stores, 1139 S.E. 3rd Ave., Portland, for construction of an 11,000 sq. ft., reinforced concrete Safeway store on one block area between Adams, Baxter, Main and 1st streets in Coquille. Bids received July 18. Plans by Max P. Williams and Robert B. Martin, architects, 1919 S.W. 12th Ave., Portland.

WB 8-10. Previous report 7-13

★WOOL LABORATORY BUILDING— Corvallis, Ore.

Award to George W. Millett, Jr., 330 Sunset Drive, Eugene, $23,846, by Oregon State Board of Higher Education, room 106, Commerce Bldg., Oregon State College, Corvallis, for construction of a wool laboratory building on the campus.

SP 8-9. Previous report 8-2

WATERFRONT REHABILITATION— Florence, Ore.

The City of Florence is preparing application for a federally financed urban renewal project for rehabilitation of the

waterfront at Florence. The Lane County Housing Authority has been designated by the City Council as agent for the renewal project. DW 8-3

ADVENTIST CHURCHES— Gladstone, Ore.

Plans announced at the Oregon Seventh Day Adventist Conference held in Gladstone for construction of new church buildings at Springfield, Portland, Roseburg, Sutherlin, Medford and Longview, Wash. SC 8-1

PARSONAGE— Hermiston, Ore.

Preliminary plans underway by Olyn Hodge, 905 E. Highland Ave., Hermiston, for construction of a new parsonage at 5th and Ridgeway in Hermiston, for the Methodist Church. SC 8-1

HIGH SCHOOL— Junction City, Ore.

Hamlin & Martin, architects, 159 W. 12th Ave., Eugene, are preparing plans for a new nine-classroom high school to be located west of the present high school in Junction City. DW 8-10

★INSULATING BOARD PLANT— Klamath Falls, Ore.

(Estimated cost $12,000,000)

Two additional subcontracts have been let by Robert Swan, project manager, Box 527, Klamath Falls, on projects included in construction of the insulating board plant near Klamath Falls, according to H. R. Stokes, project engineer for Johns-Manville Corp., 22 E. 40th St., New York City. General contractor is George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. AWARD: Friesen-Wellman Co., 1715 Main St., Klamath Falls, for all sanitary plumbing for the plant. ZZ-8-1. Previous report 7-12

★INSULATING BOARD PLANT— Klamath Falls, Ore.

(Estimated cost $12,000,000)

Following is the second subcontract award which was inadvertently deleted in the story appearing in PCD 8-1. The contract was let by Robert Swan, project manager, Box 527, Klamath Falls, for work involved in construction of the insulating board plant near Klamath Falls. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. General contractor is George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif. AWARD: G. C. Motley & Associates, 812 Klamath Ave., Klamath Falls, for additional miscellaneous iron and steel fabrication and erection. ZZ 8-2. Previous report 8-1

BEAR CAGE REMODELING— Klamath Falls, Ore.

Materials including concrete and steel reinforcing will be purchased by the Klamath Falls Park and Recreation Board for remodeling of the quarters for three bears at Moore Park in Klamath Falls. Bear pens will be 25'x16'x8' and will have concrete slab on reinforced concrete footings and foundations. Existing cages will be torn down by park crews who will do most of the remodeling work. ZZ 8-10

● CATHOLIC CHURCH—Klamath Falls, Ore.

(Estimated cost $130,000)

Bids will be opened 8 p. m., August 28, at the study of Father George Murphy, pastor, 4501 Bristol Ave., Klamath Falls, for construction of the first unit of a new Catholic parish, St. Pius Xth church, to be located on a 16½-acre site extending from the 4500 block on Bristol east for 1800' in Klamath Falls. Plans with Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls. $25 deposit.

Initial construction involves a 40'x88' auditorium with L-addition for temporary kitchen, boiler room and toilet rooms; alternate for four 28'x36' classrooms as extension of the L. Total ground area, including alternate, will be 12,100 sq. ft. Ultimate construction includes church, rectory, convent and school. Reinforced concrete footings and foundation; concrete floor; structural clay tile walls in buff color range; wood sash; glued laminated beams; vinyl tile flooring; 3" insulated roof deck with finish painted ceilings and insulation (one contract); built-up roofing; perimeter air heating system in auditorium with unit convectors in classroom; hot water oil-fired furnace; masonry chimney.

SP 8-10. Previous report 6-26

★MICROWAVE RELAY SYSTEM, BUILDINGS— Klamath Falls, Ore.

Award announced by Pacific Telephone & Telegraph Co., Howard Austin, manager, 509 S.W. Oak, Portland, for construction of microwave relay system to link Klamath Falls and Medford, including three buildings at Haymaker Mountain, Chestnut Hill and Mount Baldy, respectively. Plans by Irving G. Smith and George C. Kotchik, architects, Portland Trust Bldg., Portland. Bids opened August 8. AWARD: Albert Vik & Son, 160 Madison, Eugene, $188,617. ONLY OTHER BID: Howard Barnhart, 722 Dakota Ave., Medford, $217,227.

WB 8-14. Previous report 7-30

PLYWOOD PLANT— Medford, Ore.

Construction will start soon on a new plywood manufacturing plant on the area occupied by Camp White during World War II at Medford, for White City Plywood Co., a new incorporation. Eldon McNamer is president of the board of directors of the new plant. The initial plant will have a capacity of 2,500,000 sq. ft. of ⅜" plywood per month. SC 8-8

▲AUDITORIUM-GYMNASIUM— Monument, Ore.

Bids received by Monument School District, Monument, for construction of a new reinforced concrete and concrete block auditorium-gymnasium building to replace the structure destroyed by fire last January 18 at Monument. Plans by Wesley V. Korman, architect, 208 Raley Bldg., Pendleton. Bids opened August 2. BIDDERS: Wallace Green, 811 Tamarack, Hermiston, $60,805; Ziekler Construction Co., John Day, $65,743; Mann Construction Co., Box 577, Redmond, $66,300; Sam L. Godwin, 635 Park Ave., Hermiston, $66,956. SC 8-9. Previous report 7-27

GENERAL ARTS BUILDING— Monmouth, Ore.

(Estimated cost $230,000)

Bids will be called in the fall by Oregon College of Education, Monmouth, for construction of a General Arts building at the campus. SC 8-10

PEACE LUTHERAN CHURCH— Pendleton, Ore.

Financial campaign underway to raise funds for construction of the proposed Peace Lutheran Church in Pendleton. Preliminary plans have been completed by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. Bids may not be called for two years.

SP 8-10. Previous report 6-3

SWIMMING POOL— Philomath, Ore.

Fund raising campaign will start soon for construction of a community swimming pool on high school property adjacent to the gymnasium in Philomath. A temporary citizens' committee has set the goal at $60,000. Construction estimates were prepared by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. SC 8-1

★EXHAUST DUCT— Portland, Ore.

Award by University of Oregon Medical School, William A. Zimmerman, business manager, 3181 S.W. Sam Jackson Park Road, Portland, for replacement of fume hood exhaust duct in the Medical Science Bldg. at the Medical Science Bldg. at the school. AWARD: M. O. Cox Sheet Metal Co., Inc., 1611 S.E. 9th Ave., Portland, $4,793. ONLY OTHER BID: Northwest Tube & Metal Fabricators, 2658 S.E. Tenino St., Portland, $5,900. Bids received August 6.

WB 8-8. Previous report 7-25

▲INTERCOMMUNICATION SYSTEM— Portland, Ore.

Bids received by Multnomah County Commissioners, John W. West, purchasing agent, 504 Multnomah County Courthouse, Portland, for dial type intercommunication system with 18 remote stations at Rocky Butte jail, Portland. BIDDERS: Campbell-Norquist & Co., 77 N.E. Holladay St., Portland, $3,624; Stagecraft Industries, 2850 N.W. 31st Ave., Portland, $6,035. Bids received August 6. WB 8-8. Previous report 7-29

★RESIDENCE— Portland, Ore.

Award announced for construction of a 3,900 sq. ft. one-story brick residence for W. G. Dye on S.W. Elizabeth Court. Plans by Warren Weber, architect, 610 Fenton Bldg., 310 S.W. 6th Ave., Portland. Bids opened July 30. AWARD: Dan Schuh, 4165 S.W. 86th Ave., Portland, $66,952. 2ND LOW: Roy Motley, 5029 S.E. Taylor St., Portland, $68,982. 3RD LOW: Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton, $71,987.

SP 8-9. Previous report 7-24

INSURANCE OFFICE— Portland, Ore.

(Estimated cost $105,000)

Construction to start soon by Schuyler Southwell, owner-builder, 811 Main St., Milwaukie, on a one-story, 4,000 sq. ft. concrete block office building for Columbia District Agency, Prudential Insurance Co., Raymond L. Kirkham, district manager, 5329 N.E. Union Ave., Portland. Plans by Clive Kienle, designer, 6326 S.W. Alfred St.

Building will be located at N.E. 67th Ave. and Sandy Blvd. Stucco and flagstone exterior; glass entry with redwood framing; birch and walnut wall finishes; asphalt tile flooring; air conditioning with radiant heating; fluorescent lighting; parking for 16 cars. WB 8-9

▲GYMNASIUM— Portland, Ore.

Bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for construction of 116'x118', two-story reinforced concrete gymnasium building at Cleveland High School, S.E. 28th Ave. between Franklin St. and Powell Blvd. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland. LOW BIDS: Contractors, Inc., 1101 N.E. 21st Ave., $536,444; Sergeant Construction Co., 10104 S.E. Ankeny St., $541,029; Weston Construction Co., 7415 N.E. Glisan St., $565,000. Of Portland. Bids opened August 7.

WB 8-10. Previous report 7-25

●■ WAREHOUSE-OFFICE—Portland, Ore.

Bids will be opened 4 p. m., August 19, for structural steel, and 4:30 p. m., for general construction, by Cal Bag Steel Division, Inc., at office of Jensen & Gilham, architects, 2266 N.W. Lovejoy St., Portland, for a 122,000 sq. ft. tilt-up concrete warehouse and 7,000 sq. ft. wood frame office section at N.W. 35th Ave. and Guam St. Select list of bidders.

Planholders: Smith-Phillips Co., 7402 S.W. Macadam Ave.; Henry M. Mason Co., 2206 N.W. Thurman St.; Teeples & Thatcher, 8850 S.E. Otty St.; Monson & Sivers, 5000 S.E. 25th Ave.; Andersen & Westfall Co., Inc., 3427 N.E. Halsey St. All of Portland.

Building will be used primarily for storage of steel shapes and plates; includes five crane bays, two of 10 tons each, two of 7½ tons and one of 5 tons. Warehouse will have steel frame, metal roof, corrugated plastic clerestory and asphaltic concrete floor. Office section will have brick veneer exterior; asphalt tile flooring; gypsum board wall finish; acoustical tile ceilings.

WB 8-10. Previous report 1-24

● FOLDING TABLES— Portland, Ore.

Bids will be opened 10:30 a. m., August 22, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing 450 folding tables, 30"x96", and 50 folding tables, 30"x72" for Registrar of Elections. Specifications with purchasing agent. Certified check or bid bond 10%. WB 8-10

▲CLASSROOM BUILDING— Portland, Ore.

Bids received by Oregon State Board of Higher Education, Earl M. Pallett, secretary (Eugene) at room 111, Old Main Hall, Portland State College, 1620 S.W. Park Ave.,

Portland, for construction of southeast unit of State Hall, five-story, 100'x110', steel frame with glass and aluminum grid exterior, at S.W. Broadway and Montgomery St in Portland. Plans by Lawrence, Tucker & Wallmann, architects, 913 Failing Bldg., Portland. Bids opened August 9. LOW BIDS —GENERAL: A. V. Peterson Co., Box 2308, $751,751; Donald M. Drake Co., 1600 N.W. Savier, $753,000; E. E. Settergren, 3723 S.E. 21st, $760,000. MECHANICAL: Plumbing & Heating Engineering Co., Inc., 2751 N. Williams, $184,170; Lord Bros., 9233 N. Calvert, $188,712; J. M. Harder Plumbing & Heating, 2148 N.E. Union, $189,899. ELECTRICAL: Lord Electric Co., Inc., 535 S.W. Clay, $108,-980; Ace Electric Co., 3525 N.E. Broadway, $112,521; K. V. Allison, 575 N. Kilingsworth, $117,815. All of Portland.

WB 8-10. Previous report 7-18

● RECREATIONAL CENTER (Site Clearing)— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., August 27, by Portland Exposition-Recreation Commission, Carvel C. Linden, chairman, 623 Park Bldg., Portland, for razing buildings on three of the 22 acres in the Broadway-Steel Bridge site for the proposed Exposition-Recreation Building. Specifications with Skidmore, Owings & Merrill, architects, 2040 S.. Jefferson St., Portland.

WB 8-13. Previous report 5-28

● DORMITORIES (Site Work)— Portland, Ore.

Bids will be opened 4 p.m., August 21, at office of Neil Farnham, Frank Shell and Charles Hoyt, architects, 4444 S.W. Corbett Ave., Portland, for rough grading in preparation for construction of four-building dormitory development at Reed College. Specifications with architects.

Site is adjacent to the lake north of Eliot Hall. Work includes moving 15,000 c.y. earth.

Working drawings are under way on the dormitories, and bid call will be issued about November. Each of the four buildings will contain 24,024 sq. ft. and house 25 men students; two-stories on one side of central corridor, and one-story on other side to fit sloping site. Post and beam steel frame; aluminum curtain walls; glass-enclosed lounge area; plaster walls finish; acoustical tile ceilings; asphalt tile flooring on concrete slab floors; forced hot water heating system from central boiler plant; movable wood cabinets, serving as partitions, will be under separate contract.

WB 8-14

● CHAIRS— Portland, Ore.

Bids will be opened 10:30 a.m., August 27, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing 54 swivel arm chairs for Circuit Court. Specifications with purchasing agent. Certified check or bid bond 10%.

WB 8-14

■ EQUIPMENT SHED— Portland, Ore.

Planholders announced for construction of an L-shaped steel frame water bureau equipment shed at 1900 N. Interstate Ave. in Portland. Bids will be opened 2 p.m., August 19, by L. W. Rayner, city purchasing agent, 208 City Hall, Portland. Plans with purchasing agent.

WB 8-14. Previous report 8-6

■ BRANCH LIBRARY— Portland, Ore.

Planholders announced for construction of 75'x100' branch library at S.E. 122nd Ave. and Morrison St., Portland, for the Library Association of Portland. Bids will be opened 3:30 p.m., August 20, in offices of the Central Library, 801 S.W. 10th Ave., Portland. Plans with Stewart & Richardson, architects, 219 S.W. Stark St., Portland. $25 deposit.

Planholders: Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton; Beebe Construction Co., 2134 N. Flint Ave.; Blanchard Construction Co., 2546 S.W. Vista Ave.; O. B. Blakely Construction Co., 10355 N.E. Saratoga St.; Charles S. Camplan, 2035 S.W. 58th Ave.; Doerrie Construction Co., 301 N.W. Murray Road; Ferguson & Boyles Co., 1164 S.E. Stark St.; Anfelt B. Hansen, 4115 S.E. Ogden St.; Allan C. Lawson, 2520 S.W. Hamilton Court; Mason & Robinson, 200 N.E. 136th Ave.; Norman Builders, 2805 S.W. 3rd Ave.; Sterner Construction Co., 13845 S.E. Rhine St.; William Wechner Building Construction, 214 N. Russell St.; Wilson & Dean, 1016 N.E. 61st Ave. Of Portland except as noted.

WB 8-14. Previous report 8-1

★ PLAYSHED— Salem, Ore.

Award announced by William H. Egan, Route 1, Brooks, Ore., for construction of a 30'x60' playshed addition and a 30'x30' open court for the district's Waconda Unit, 8.6 mi. north of Salem on St. Paul Highway. Bids opened August 1. AWARD: L. J. Plank, 1360 Tomlin Ave., Woodburn, $4,648. OTHER BIDDERS: T. J. Patzer, 1960 Highway Ave., Salem, $4,721; W. H. Meloy, 1215 N. Liberty, Salem, $5,275; Enoch I. Maerz, 3936 Hayesville Drive, Salem, $5,323; Wayne W. Barham, 809 N. Cottage St., Salem, $5,349; R. I. Randolph Construction Co., 3815 Welty Ave., Salem, $6,219.

SP 8-9. Previous report 7-10

CAPITOL MALL CONSTRUCTION— Salem, Ore.

Master schemes for long range development of the Capitol Mall area have been presented to the Capitol Commission by Wilmsen & Endicott, architects, 863 13th Ave., Eugene. The firm presented three major studies of possible mall development, the most radical of which blocked all streets through the mall area except Center St. One plan suggested was the extension of the mall north from the capitol building into a more informal wooded area with pools, fountains and room for government buildings and a public park. New structures might include a museum, auditorium, exhibit area and governor's mansion. Tree-lined walks were suggested for the mall with as much fringe parking as possible. Any streets through the mall would be sunken so as not to disturb the view if current ideas are followed. The auditorium might be built as a joint venture of the state and city of Salem in return for the city's permission to close some streets into the area.

SC 8-7. Previous report 8-3

■ CORRECTIONAL INSTITUTION— Salem, Ore.

Planholders announced for construction of the reinforced concrete main portion of the correctional institution for young offenders, to be located on a 10-acre site five mi. southeast of Salem on part of Oregon State Hospital College Farm. Bids will be opened 2 p.m., August 27, by Oregon State Board of Control, room 124, State Capitol Bldg., Salem. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor, Portland.

Planholders: E. E. Batterman, 147 N. Commercial, Salem; Viesko & Post, 1440 S. 13th Ave., Salem; O. R. Wayman, 3125 N. Front St., Portland; Juhr & Sons, 1339 S.E. Gideon, Portland; Donald M. Drake Co., 1600 N.W. Savier, Portland; W. H. Shields Construction Co., 252 Taylor (Box 3037), Eugene; L. H. Hoffman Construction Co., 715 S.W. Columbia, Portland; Sound Construction & Engineering Co., 1300 Aloha St., Seattle.

SP 8-9. Previous report 7-27

★ SALEM MEMORIAL HOSPITAL— Salem, Ore.

Award to Viesko & Post, Box 69, Salem, $568,357 (low bid inadvertently printed as $658,357 in PCD 8-13), by Salem Memorial Hospital, Irwin Wendel, hospital administrator, 665 S. Winter St., Salem, for a three-story, reinforced concrete central services wing addition to the hospital. Plans by James L. Payne, architect, 725 S. Commercial, Salem. SC 8-14. Previous report 8-13

● CHURCH— The Dalles, Ore.

Bids will be opened 8 p.m., August 28, by Gateway Presbyterian Church, The Dalles, for construction of a concrete slab on frame church at 1015 Dry Hollow Road in The Dalles. Plans with Stewart & Richardson,



architect:
STEWART & RICHARDSON

contractor:
K. T. HENDERSON

Chehalis Buff Roman Brick

. . . adds warmth, color, durability to the clean, functional design of this new Elementary School at Toledo, Washington.

More and more architects are specifying the Northwest's most distinctive brick—Chehalis Brick—for school construction. Chehalis Brick combines the appealing colors and textures that are typical of the area with all the natural advantages of brick: attractive design, permanence, and fire-safety—plus long-range economy and lower maintenance costs.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

waterfront at Florence. The Lane County Housing Authority has been designated by the City Council as agent for the renewal project. DW 8-3

ADVENTIST CHURCHES— Gladstone, Ore.

Plans announced at the Oregon Seventh Day Adventist Conference held in Gladstone for construction of new church buildings at Springfield, Portland, Roseburg, Sutherlin, Medford and Longview, Wash. SC 8-1

PARSONAGE— Hermiston, Ore.

Preliminary plans underway by Olyn Hodge, 905 E. Highland Ave., Hermiston, for construction of a new parsonage at 5th and Ridgeway in Hermiston, for the Methodist Church. SC 8-1

HIGH SCHOOL— Junction City, Ore.

Hamlin & Martin, architects, 159 W. 12th Ave., Eugene, are preparing plans for a new nine-classroom high school to be located west of the present high school in Junction City. DW 8-10

★INSULATING BOARD PLANT— Klamath Falls, Ore.
(Estimated cost $12,000,000)

Two additional subcontracts have been let by Robert Swan, project manager, Box 527, Klamath Falls, on projects included in construction of the insulating board plant near Klamath Falls, according to H. R. Stokes, project engineer for Johns-Manville Corp., 22 E. 40th St., New York City. General contractor is George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. AWARD: Friesen-Wellman Co., 1715 Main St., Klamath Falls, for all sanitary plumbing for the plant. ZZ-8-1. Previous report 7-12

★INSULATING BOARD PLANT— Klamath Falls, Ore.
(Estimated cost $12,000,000)

Following is the second subcontract award which was inadvertently deleted in the story appearing in PCD 8-1. The contract was let by Robert Swan, project manager, Box 527, Klamath Falls, for work involved in construction of the insulating board plant near Klamath Falls. Plans by Skidmore, Owings & Merrill, architects of New York, Chicago, San Francisco and Portland. General contractor is George A. Fuller Co., 3100 W. 8th St., Los Angeles, Calif. AWARD: G. C. Motley & Associates, 812 Klamath Ave., Klamath Falls, for additional miscellaneous iron and steel fabrication and erection. ZZ 8-2. Previous report 8-1

BEAR CAGE REMODELING— Klamath Falls, Ore.

Materials including concrete and steel reinforcing will be purchased by the Klamath Falls Park and Recreation Board for remodeling of the quarters for three bears at Moore Park in Klamath Falls. Bear pens will be 25'x16'x8' and will have concrete slab on reinforced concrete footings and foundations. Existing cages will be torn down by park crews who will do most of the remodeling work. ZZ 8-10

● CATHOLIC CHURCH—Klamath Falls, Ore.
(Estimated cost $130,000)

Bids will be opened 8 p. m., August 28, at the study of Father George Murphy, pastor, 4501 Bristol Ave., Klamath Falls, for construction of the first unit of a new Catholic parish, St. Pius Xth church, to be located on a 16½-acre site extending from the 4500 block on Bristol east for 1800' in Klamath Falls. Plans with Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls. $25 deposit.

Initial construction involves a 40'x88' auditorium with L-addition for temporary kitchen, boiler room and toilet rooms; alternate for four 28'x36' classrooms as extension of the L. Total ground area, including alternate, will be 12,100 sq. ft. Ultimate construction includes church, rectory, convent and school. Reinforced concrete footings and foundation; concrete floor; structural clay tile walls in buff color range; wood sash; glued laminated beams; vinyl tile flooring; 3" insulated roof deck with finish painted ceilings and insulation (one contract); built-up roofing; perimeter air heating system in auditorium with unit convectors in classroom; hot water oil-fired furnace; masonry chimney.
SP 8-10. Previous report 6-26

★MICROWAVE RELAY SYSTEM, BUILDINGS— Klamath Falls, Ore.

Award announced by Pacific Telephone & Telegraph Co., Howard Austin, manager, 509 S.W. Oak, Portland, for construction of microwave relay system to link Klamath Falls and Medford, including three buildings at Haymaker Mountain, Chestnut Hill and Mount Baldy, respectively. Plans by Irving G. Smith and George C. Kotchik, architects, Portland Trust Bldg., Portland. Bids opened August 8. AWARD: Albert Vik & Son, 160 Madison, Eugene, $188,617. ONLY OTHER BID: Howard Barnhart, 722 Dakota Ave., Medford, $217,227.
WB 8-14. Previous report 7-30

PLYWOOD PLANT— Medford, Ore.

Construction will start soon on a new plywood manufacturing plant on the area occupied by Camp White during World War II at Medford, for White City Plywood Co., a new incorporation. Eldon McNamer is president of the board of directors of the new plant. The initial plant will have a capacity of 2,500,000 sq. ft. of ⅜" plywood per month. SC 8-8

▲AUDITORIUM-GYMNASIUM— Monument, Ore.

Bids received by Monument School District, Monument, for construction of a new reinforced concrete and concrete block auditorium-gymnasium building to replace the structure destroyed by fire last January 18 at Monument. Plans by Wesley V. Korman, architect, 208 Raley Bldg., Pendleton. Bids opened August 2. BIDDERS: Wallace Green, 811 Tamarack, Hermiston, $60,805; Ziekler Construction Co., John Day, $65,743; Mann Construction Co., Box 577, Redmond, $66,300; Sam L. Godwin, 635 Park Ave., Hermiston, $66,956. SC 8-9. Previous report 7-27

GENERAL ARTS BUILDING— Monmouth, Ore.
(Estimated cost $230,000)

Bids will be called in the fall by Oregon College of Education, Monmouth, for construction of a General Arts building at the campus. SC 8-10

PEACE LUTHERAN CHURCH— Pendleton, Ore.

Financial campaign underway to raise funds for construction of the proposed Peace Lutheran Church in Pendleton. Preliminary plans have been completed by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. Bids may not be called for two years.
SP 8-10. Previous report 6-3

SWIMMING POOL— Philomath, Ore.

Fund raising campaign will start soon for construction of a community swimming pool on high school property adjacent to the gymnasium in Philomath. A temporary citizens' committee has set the goal at $60,000. Construction estimates were prepared by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. SC 8-1

★EXHAUST DUCT— Portland, Ore.

Award by University of Oregon Medical School, William A. Zimmerman, business manager, 3181 S.W. Sam Jackson Park Road, Portland, for replacement of fume hood exhaust duct in the Medical Science Bldg. at the Medical Science Bldg. at the school. AWARD: M. O. Cox Sheet Metal Co., Inc., 1611 S.E. 9th Ave., Portland, $4,793. ONLY OTHER BID: Northwest Tube & Metal Fabricators, 2658 S.E. Tenino St., Portland, $5,900. Bids received August 6.
WB 8-8. Previous report 7-25

▲INTERCOMMUNICATION SYSTEM— Portland, Ore.

Bids received by Multnomah County Commissioners, John W. West, purchasing agent, 504 Multnomah County Courthouse, Portland, for dial type intercommunication system with 18 remote stations at Rocky Butte Jail, Portland. BIDDERS: Campbell-Norquist & Co., 77 N.E. Holladay St., Portland, $3,624; Stagecraft Industries, 2850 N.W. 31st Ave., Portland, $6,035. Bids received August 6. WB 8-8. Previous report 7-26

★RESIDENCE— Portland, Ore.

Award announced for construction of a 3,900 sq. ft. one-story brick residence for W. G. Dye on S.W. Elizabeth Court. Plans by Warren Weber, architect, 610 Fenton Bldg., 310 S.W. 6th Ave., Portland. Bids opened July 30. AWARD: Dan Schuh, 4165 S.W. 86th Ave., Portland, $66,952. 2ND LOW: Roy Motley, 5029 S.E. Taylor St., Portland, $68,982. 3RD LOW: Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton, $71,987.
SP 8-9. Previous report 7-24

INSURANCE OFFICE— Portland, Ore.
(Estimated cost $105,000)

Construction to start soon by Schuyler Southwell, owner-builder, 811 Main St., Milwaukie, on a one-story, 4,000 sq. ft. concrete block office building for Columbia District Agency, Prudential Insurance Co., Raymond L. Kirkham, district manager, 5329 N.E. Union Ave., Portland. Plans by Clive Kienle, designer, 6326 S.W. Alfred St.

Building will be located at N.E. 67th Ave. and Sandy Blvd. Stucco and flagstone exterior; glass entry with redwood framing; birch and walnut wall finishes; asphalt tile flooring; air conditioning with radiant heating; fluorescent lighting; parking for 16 cars. WB 8-9

▲GYMNASIUM— Portland, Ore.

Bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for construction of 116'x118', two-story reinforced concrete gymnasium building at Cleveland High School, S.E. 28th Ave. between Franklin St. and Powell Blvd. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland. LOW BIDS: Contractors, Inc., 1101 N.E. 21st Ave., $536,444; Sergeant Construction Co., 10104 S.E. Ankeny St., $541,029; Weston Construction Co., 7415 N.E. Glisan St., $565,000. Of Portland. Bids opened August 7.
WB 8-10. Previous report 7-25

●■ WAREHOUSE-OFFICE—Portland, Ore.

Bids will be opened 4 p. m., August 19, for structural steel, and 4:30 p. m., for general construction, by Cal Bag Steel Division, Inc., at office of Jensen & Gilham, architects, 2266 N.W. Lovejoy St., Portland, for a 122,000 sq. ft. tilt-up concrete warehouse and 7,000 sq. ft. wood frame office section at N.W. 35th Ave. and Guam St. Select list of bidders.

Planholders: Smith-Phillips Co., 7402 S.W. Macadam Ave.; Henry M. Mason Co., 2206 N.W. Thurman St.; Teeples & Thatcher, 8850 S.E. Otty St.; Monson & Sivers, 5000 S.E. 25th Ave.; Andersen & Westfall Co., Inc., 3427 N.E. Halsey St. All of Portland.

Building will be used primarily for storage of steel shapes and plates; includes five crane bays, two of 10 tons each, two of 7½ tons and one of 5 tons. Warehouse will have steel frame, metal roof, corrugated plastic clerestory and asphaltic concrete floor. Office section will have brick veneer exterior; asphalt tile flooring; gypsum board wall finish; acoustical tile ceilings.
WB 8-10. Previous report 1-24

●FOLDING TABLES— Portland, Ore.

Bids will be opened 10:30 a. m., August 22, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing 450 folding tables, 30"x96", and 50 folding tables, 30"x72" for Registrar of Elections. Specifications with purchasing agent. Certified check or bid bond 10%. WB 8-10

▲CLASSROOM BUILDING— Portland, Ore.

Bids received by Oregon State Board of Higher Education, Earl M. Pallett, secretary (Eugene) at room 111, Old Main Hall, Portland State College, 1620 S.W. Park Ave.,

Portland, for construction of southeast unit of State Hall, five-story, 100'x110', steel frame with glass and aluminum grid exterior, at S.W. Broadway and Montgomery St in Portland. Plans by Lawrence, Tucker & Wallmann, architects, 913 Failing Bldg., Portland. Bids opened August 9. LOW BIDS —GENERAL: A. V. Peterson Co., Box 2308, $751,751; Donald M. Drake Co., 1600 N.W. Savier, $753,000; E. E. Settergren, 3723 S.E. 21st, $760,000. MECHANICAL: Plumbing & Heating Engineering Co., Inc., 2751 N. Williams, $184,170; Lord Bros., 9233 N. Calvert, $188,712; J. M. Harder Plumbing & Heating, 2148 N.E. Union, $189,899. ELECTRICAL: Lord Electric Co., Inc., 535 S.W. Clay, $108,980; Ace Electric Co., 3525 N.E. Broadway, $112,521; K. V. Allison, 575 N. Kilingsworth, $117,815. All of Portland.

WB 8-10. Previous report 7-18

● RECREATIONAL CENTER (Site Clearing)— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., August 27, by Portland Exposition-Recreation Commission. Carvel C. Linden, chairman, 623 Park Bldg., Portland, for razing buildings on three of the 22 acres in the Broadway-Steel Bridge site for the proposed Exposition-Recreation Building. Specifications with Skidmore, Owings & Merrill, architects, 2040 S. Jefferson St., Portland.

WB 8-13. Previous report 5-28

● DORMITORIES (Site Work)— Portland, Ore.

Bids will be opened 4 p.m., August 21, at office of Neil Farnham, Frank Shell and Charles Hoyt, architects, 4444 S.W. Corbett Ave., Portland, for rough grading in preparation for construction of four-building dormitory development at Reed College. Specifications with architects.

Site is adjacent to the lake north of Eliot Hall. Work includes moving 15,000 c.y. earth.

Working drawings are under way on the dormitories, and bid call will be issued about November. Each of the four buildings will contain 24,024 sq. ft. and house 25 men students; two-stories on one side of central corridor, and one-story on other side to fit sloping site. Post and beam steel frame; aluminum curtain walls; glass-enclosed lounge area; plaster walls finish; acoustical tile ceilings; asphalt tile flooring on concrete slab floors; forced hot water heating system from central boiler plant; movable wood cabinets, serving as partitions, will be under separate contract.

WB 8-14

● CHAIRS— Portland, Ore.

Bids will be opened 10:30 a.m., August 27, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing 54 swivel arm chairs for Circuit Court. Specifications with purchasing agent. Certified check or bid bond 10%.

WB 8-14

■ EQUIPMENT SHED— Portland, Ore.

Planholders announced for construction of an L-shaped steel frame water bureau equipment shed at 1900 N. Interstate Ave. in Portland. Bids will be opened 2 p.m., August 19, by L. W. Rayner, city purchasing agent, 208 City Hall, Portland. Plans with purchasing agent.

WB 8-14. Previous report 8-6

■ BRANCH LIBRARY— Portland, Ore.

Planholders announced for construction of 75'x100' branch library at S.E. 122nd Ave. and Morrison St., Portland, for the Library Association of Portland. Bids will be opened 3:30 p.m., August 20, in offices of the Central Library, 801 S.W. 10th Ave., Portland. Plans with Stewart & Richardson, architects, 219 S.W. Stark St., Portland. $25 deposit.

Planholders: Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton; Beebe Construction Co., 2134 N. Flint Ave.; Blanchard Construction Co., 2546 S.W. Vista Ave.; O. B. Blakely Construction Co., 10355 N.E. Saratoga St.; Charles S. Camplan, 2035 S.W. 58th Ave.; Doerrie Construction Co., 301 N.W. Murray Road; Ferguson & Boyles Co., 1164 S.E. Stark St.; Anfelt B. Hansen, 4115 S.E. Ogden St.; Allan C. Lawson, 2520 S.W. Hamilton Court; Mason & Robinson, 200 N.E. 136th Ave.; Norman Builders, 2805 S.W. 3rd Ave.; Sterner Construction Co., 13845 S.E. Rhine St.; William Wechner Building Construction, 214 N. Russell St.; Wilson & Dean, 1016 N.E. 61st Ave. Of Portland except as noted.

WB 8-14. Previous report 8-1

★ PLAYSHED— Salem, Ore.

Award announced by William H. Egan, Route 1, Brooks, Ore., for construction of a 30'x60' playshed addition and a 30'x30' open court for the district's Waconda Unit, 8.6 mi. north of Salem on St. Paul Highway. Bids opened August 1. AWARD: L. J. Plank, 1360 Tomlin Ave., Woodburn, $4,648. OTHER BIDDERS: T. J. Patzer, 1960 Highway Ave., Salem, $4,721; W. H. Meloy, 1215 N. Liberty, Salem, $5,275; Enoch I. Maerz, 3936 Hayesville Drive, Salem, $5,323; Wayne W. Barham, 809 N. Cottage St., Salem, $5,349; R. I. Randolph Construction Co., 3815 Welty Ave., Salem, $6,219.

SP 8-9. Previous report 7-10

CAPITOL MALL CONSTRUCTION— Salem, Ore.

Master schemes for long range development of the Capitol Mall area have been presented to the Capitol Commission by Wilmsen & Endicott, architects, 863 13th Ave., Eugene. The firm presented three major studies of possible mall development, the most radical of which blocked all streets through the mall area except Center St. One plan suggested was the extension of the mall north from the capitol building into a more informal wooded area with pools, fountains and room for government buildings and a public park. New structures might include a museum, auditorium, exhibit area and governor's mansion. Tree-lined walks were suggested for the mall with as much fringe parking as possible. Any streets through the mall would be sunken so as not to disturb the view if current ideas are followed. The auditorium might be built as a joint venture of the state and city of Salem in return for the city's permission to close some streets into the area.

SC 8-7. Previous report 8-3

■ CORRECTIONAL INSTITUTION— Salem, Ore.

Planholders announced for construction of the reinforced concrete main portion of the correctional institution for young offenders, to be located on a 10-acre site five mi. southeast of Salem on part of Oregon State Hospital College Farm. Bids will be opened 2 p.m., August 27, by Oregon State Board of Control, room 124, State Capitol Bldg., Salem. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor, Portland.

Planholders: E. E. Batterman, 147 N. Commercial, Salem; Viesko & Post, 1440 S. 13th Ave., Salem; O. R. Wayman, 3125 N. Front St., Portland; Juhr & Sons, 1339 S.E. Gideon, Portland; Donald M. Drake Co., 1600 N.W. Savier, Portland; W. H. Shields Construction Co., 252 Taylor (Box 3037), Eugene; L. H. Hoffman Construction Co., 715 S.W. Columbia, Portland; Sound Construction & Engineering Co., 1300 Aloha St., Seattle.

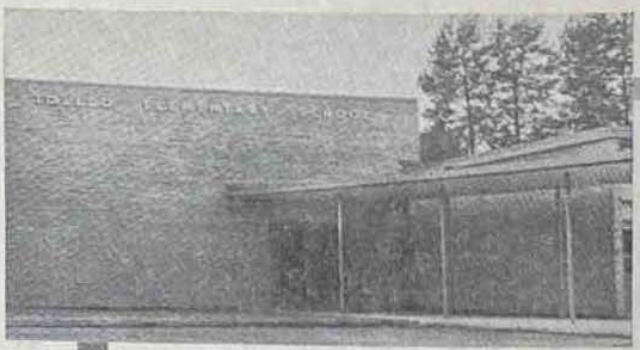
SP 8-9. Previous report 7-27

★ SALEM MEMORIAL HOSPITAL— Salem, Ore.

Award to Viesko & Post, Box 69, Salem, $568,357 (low bid inadvertently printed as $658,357 in PCD 8-13), by Salem Memorial Hospital, Irwin Wendel, hospital administrator, 665 S. Winter St., Salem, for a three-story, reinforced concrete central services wing addition to the hospital. Plans by James L. Payne, architect, 725 S. Commercial, Salem. SC 8-14. Previous report 8-13

● CHURCH— The Dalles, Ore.

Bids will be opened 8 p.m., August 28, by Gateway Presbyterian Church, The Dalles, for construction of a concrete slab on frame church at 1015 Dry Hollow Road in The Dalles. Plans with Stewart & Richardson.



architect:
STEWART & RICHARDSON

contractor:
K. T. HENDERSON

Chehalis Buff Roman Brick

. . . adds warmth, color, durability to the clean, functional design of this new Elementary School at Toledo, Washington.

More and more architects are specifying the Northwest's most distinctive brick—Chehalis Brick—for school construction. Chehalis Brick combines the appealing colors and textures that are typical of the area with all the natural advantages of brick: attractive design, permanence, and fire-safety—plus long-range economy and lower maintenance costs.

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architects, 219 S.W. Stark St., Portland. $25 deposit.

Glued laminated columns and beams; wood deck; built-up gravel roofing; wood sash; wrought-sawn exterior siding; dry wall interior; asphalt tile flooring; wood paneling; oil-fired warm air heating system. SP 8-14

★LIGHT STATION ROOFING— Tillamook, Ore.

Award to Rice Wallstrom, Inc., 333 S.W. Front, Astoria, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for reroofing the lantern section of the light tower at Cape Mears Light Station, Tillamook; Inv. No. FS-1622. PD 8-13. Previous report 8-1

▲CITY HALL WORK— Silverton, Ore.

Bids received by City Council, R. E. Borland, city manager, City Hall, Silverton, for rebuilding the concrete ramp and retaining wall on the north end of the City Hall and for installation of a 2100-gallon fuel oil tank under the ramp. Bids opened August 5. ONLY BIDS: C. M. Bjorke, Route 2, Box 56, Silverton, $3,587; Johnston Construction Co., 260 Luther St., Salem, $4,948. SP 8-8. Previous report 7-12

●FIELD LABORATORY— Union, Ore.

Bids will be opened 2 p. m., August 29, by Eastern Oregon College of Education, Administration Bldg., La Grande, for construction of a soils-forage field laboratory building at Eastern Oregon Branch Experiment Station in Union. Plans available at room 3, Benton Hall, Oregon State College, Corvallis. $10 deposit. SC 8-9

WASHINGTON

▲HEATING SYSTEMS— Anacortes, Wash.

Bids received by 13th Coast Guard District, 618 2nd Ave., room 922, Seattle, for installation of two hot air heating systems in the two quarters dwelling at Burrows Island Light Station in Anacortes; Bid No. FS-1634. Bids opened August 8.

The following are basic bids. LOW BID: Angel Nelson, 2010 Hewitt Ave., Everett, $3,200. OTHER BIDS: Hull Bros. Heating Co., 314 Riverside Drive, Mount Vernon, $3,742; Snelson Plumbing & Heating, Inc., 506 W. State St., Sedro Woolley, $3,782; Heating & Wiring Installers, 3612 1st Ave. S., Seattle, $4,575; Erskig Sheet Metal, Inc., 119 W. Chestnut St., Bellingham, $6,491. PD 8-9. Previous report 7-24

●■ADMINISTRATION BUILDING, WAREHOUSE— Anacortes, Wash.

Bids will be opened September 6 by Bechtel Corp., 220 Bush St., San Francisco, Calif., for administration and employes' buildings and marine warehouse building in Anacortes. Plans with above office.

Planholders: Howard S. Wright, Box 3764; Kuney Johnson, 1255 Mercer; J. C. Boespflug, 1912 4th Ave. S.; Sound Construction & Engineering Co., 1300 Aloha; Cawdrey & Vemo, 3601 Fremon; Elford Co., Box 357, Bellingham; Newland Construction Co., 3302 Hill, Everett. Of Seattle unless noted. SC 8-10

★OFFICE BUILDING— Arlington, Wash.

Award to Puget Sound Builders, 2626 Hoyt Ave., Everett, $86,429, by PUD No. 3030 Colby Ave., Everett, for construction of a new 42'x74' brick office and service headquarters building at Arlington. Plans by Harmon, Pray & Detrich, architects, Lloyd Bldg., Seattle. HH 8-9. Previous report 7-26

DEPARTMENT STORE— Bellevue, Wash.

Working drawings underway by James Klontz & Associates, architects, Dexter Horton Bldg., Seattle, for construction of a 40,000 sq. ft. steel frame two-story department store west of the A & P market in Bellevue Shopping Square, Bellevue, to be leased by J. C. Penney Co., Inc., for Bellevue Properties, 1603 76th N.E., Bellevue. Grading and surfacing the parking area adjoining the store may be awarded under separate contract, with construction to start before the building contract is let. PD 8-1

★WOODRIDGE ELEMENTARY SCHOOL— Bellevue, Wash.

Awards announced by Bellevue School District No. 204, Box 67, Bellevue, for construction of Woodridge Elementary School northeast of Norwood Village near Bellevue. Plans by Jones & Bindon, architects, 715 Hoge Bldg., Seattle. AWARDS—GENERAL: Wick Construction Co., 720 N. 35th, Seattle, $313,836 (basic plus eight alternates). MECHANICAL: Percy A. Thorn Mechanical Contracor, 24 Etruria, Seattle, $82,800 (basic plus alt. M1). ELECTRICAL: Ewing Electric, Edmonds, $33,182 (basic plus alt. E5). Construction will be underway as soon as state approval is received. PD 8-9. Previous report 7-20

●PHANTOM LAKE SCHOOL (PHASE 2)— Bellevue, Wash.

Bids will be opened 2 p.m., August 29, by Bellevue School District No. 405, George B. Brain, superintendent, in the offices of Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle, for construction of the remaining six buildings of the seven-building Phantom Lake Elementary School on 160th S.E. in the Lake Hills area east of Bellevue. School district address is Box 67, Bellevue. Plans with the architects. $35 deposit. The first phase of the school, involving a four-classroom unit, was awarded to Ed Brehm, 9406 N.E. 32nd St., Bellevue, last April.

Wood frame structures on concrete slabs; glued laminated beams in roof framing; built-up roofing; aluminum sash; plasterboard and hardboard walls; fiberglass panels; acoustical tile ceilings; asphalt tile, ceramic tile flooring; fluorescent lighting; fiberglass arches for playshed; individual oil-fired hot air furnaces in each classroom. SP 8-10

HEALTH DEPARTMENT BUILDING— Bellingham, Wash.

(Estimated cost $183,000 total)

Preliminary plans approved by the district health board in Bellingham for construction of a 6,000 sq. ft. city-county health department clinic and office building to be located on the east side of Grand Ave. between Whatcom and Girard St. in Bellingham. Plans by Galen Bentley, architect, 1130 State St., Bellingham. Bids will be called late in 1957. The building would run parallel to Girard St., with the main entrance toward Grand Ave. Preliminary plans call for a building 168' long and 36' to 45' wide; administrative section at one end of the building and medical and clinical portion at the other end; auditorium. ET 8-7. Previous report 6-5

●PAINTING, BUILDING REPAIR— Bremerton, Wash.

Bids will be opened 11:30 a.m., August 22, by Department of the Navy, Public Works Department, Bldg. No. 78, Puget Sound Naval Shipyard, Bremerton, for exterior painting, waterproofing and repair of buildings 151, 152, 153, 409 and 410 at the U. S. Naval Hospital, U. S. Naval Base, Bremerton; Spec. No. 12190-57. Specifications with above office. Work consists of applying two coats of paint to exterior wood and metal; recaulking approximately 50 window frames; waterproofing specified exterior walls; and repair of roof of porte cochere. SP 8-13

●PUD BUILDING— Brewster, Okanogan, Omak, Wash.

Bids will be opened 12 noon, September 4, by Okanogan PUD No. 1, Okanogan, for construction of a warehouse and remodeling an office building at Brewster, for construction of an office building at Omak, and for loading dock construction at the PUD warehouse at Okanogan. Plans with Alvin S. Erickson, architect, Central Bldg., Wenatchee. $20 deposit. Projects may be bid jointly or separately. SC 8-9

JUNIOR HIGH SCHOOL—Centralia, Wash.

(Estimated cost $950,000)

Bids will be called soon by Centralia School District No. 401, Hayes Holmon, superintendent, 415 W. Pear St., Centralia, for construction of a four-unit 10-classroom junior high school in Centralia. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. Roof to be timber construction and exterior walls SCR brick; low pressure steam heating system serving unit ventilator. SC 8-7

CITY SERVICE BUILDINGS— Centralia, Wash.

(Estimated cost $75,000)

Plans announced by Centralia City Commission, City Hall, Centralia, for construction of a $40,000 street department building to house office, shop and storage space, and a $35,000 city water department building on W. Maple St., less than a block from the city hall, in Centralia. The building projects are included in the city's 1957 budget. SC 8-9

●■ARTS BUILDING ADDITION— Cheney, Wash.

Bids will be opened 3:15 p. m., August 29, by Eastern Washington College of Education, Cheney, for construction of an addition and alterations to the Industrial Arts Building at the college. Plans with George Rasque & Son, architects, Washington Trust Bldg., Spokane.

Planholders: Kop's Construction Co., 720 S. Montavilla; Smith & Roberts, Box 6086; Ken Custis, 741 E. 23rd; Vista Construction Co., 803 S. Park Road; S. G. Morin & Sons, 411 W. 2nd; A. J. Popp, 2710 E. Garland. All of Spokane. LL 8-10

★PHARMACY— Clarkston, Wash.

Awards announced for construction of Adams Pharmacy in Clarkston. Plans by P. H. Putnam, architect, Box 515, Lewiston. AWARDS—GENERAL: Cassell Builders, 1301 Main, Clarkston, $26,911. HEATING, VENTILATING, AIR CONDITIONING: Inland Metals, 635 5th, Clarkston, $3,000. PLUMBING: Miller Bros. Plumbing & Heating, 1116 17th, Lewiston, $1,620. ELECTRICAL: Webster Electric, 1203 3rd, Lewiston, $3,936. SP 8-14

★ELEMENTARY SCHOOL—Edmonds, Wash.

Awards announced by Edmonds School District No. 15, Harold Silvernail, superintendent, Box 308, Edmonds, for construction of one-story, 38,000 sq. ft., five building Melody Hill Elementary School at 62nd Ave. W. and 22nd St. S.W. in Mountlake Terrace. Plans by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. AWARDS—GENERAL: Brazier Construction Co., 309 Pontius, Seattle, $337,800. MECHANICAL: Callahan Plumbing & Heating Co., 3211 Broadway, Everett, $94,670. ELECTRICAL: Lindberg Electric Co., 4600 Leary Way, Seattle, $35,868. SC 8-14. Previous report 8-3

▲ELEMENTARY SCHOOL ADDITION— Elma, Wash.

Bids received by Elma School District No. 137, Grays Harbor County, R. W. Brockmueller, superintendent, Elma, for construction of a six-classroom and library addition to the Elma Elementary School. Plans by Charles Rueger & Associates, architects, 225 S. Tacoma Ave., Tacoma. Bids opened August 8. LOW BIDS—GENERAL: Lamb Construction Co., 1000 E. Heron, Aberdeen, $94,496; Associated Builders of Olympia, Route 11, Box 147, Olympia, $99,843; Andy Johnson, 4th and H streets, Aberdeen, $100,125. MECHANICAL: Harold Jewell Plumbing & Heating, 6605 6th, Tacoma, $18,737; Boon's Plumbing & Heating Co., 623 S. 1st, Shelton, $18,800; Standard Plumbing & Heating Co., E. 10th and Shore Drive, Bremerton, $21,147. ELECTRICAL: Thackeray Electric, 117 Cota, Shelton, $10,437; Rhodes Electric, Silverdale, $10,567; Lent's, Inc., 279 4th St., Bremerton, $11,140. SP 8-10. Previous report 8-3

▲HEATING PLANT— Everett, Wash.

Bids received by Everett City Commissioners, City Hall, Everett, for installation of a new heating plant at Flora Hall for the Park Department. Bids opened August 12. LOW BIDS: Haskell Plumbing & Heating Co., 3014 Wetmore, Everett, $1,170; Brown, the Plumber, 2923 Oakes, Everett, $1,323; Callahan Plumbing & Heating Co. 3211 Broadway, Everett, $1,480. HH 8-13. Previous report 7-31

★**REST ROOMS— Everett, Wash.**

Award to Metropolitan Construction Co., 1008 Broadway, Everett, $4,630, by Port of Everett, T. P. McCutchan, manager, Pier 1, Everett, for construction of rest rooms and related facilities at Everett Yacht Basin. Plans by James H. Reid & Associates, consulting engineers, 420 Bell St., Edmonds. Bids opened July 24. HH 8-10. Previous report 7-17

GARAGE REPAIR— Fort Lewis, Wash.

Bid opening of August 15 has been postponed until further notice by Department of Army, Purchasing and Contracting Office, Fort Lewis, for rehabilitation and/or repainting of garages for temporary and permanent type family quarters at Fort Lewis; AVI-45-016-58-18.

SP 8-13. Previous report 8-6

●■ **HEATING, AIR CONDITIONING— Geiger Field, Wash.**

Bids will be opened 2 p.m., September 4, by U.S. Air Force, Procurement Office, Geiger Field, for installation of heating and air conditioning systems in rooms 103 and 103A of Bldg. 1390 and heating system in Bldg. 725 at Geiger Field; IFB-45-614-58-8. Plans with above office. Bid bond 20%.

Planholders: Russ Owens Plumbing & Heating, N. 1020 Washington; Roberts-Inman, Inc., N. 1418 Division; Peck & Gale Plumbing & Heating, S. 211 Washington; Clarence Weston Plumbing & Heating, 2815 E. Sprague Ave.; Harry Lewis Plumbing Co., 1904 W. 5th Ave.; James Smyth Plumbing & Heating Co., N. 216 Division; Stillwell Heating, W. 2103 Maxwell; Spokane Plumbing & Heating Co., N. 613 Monroe St.; Warren, Little & Lund, 120 W. 2nd, Spokane; Adams & Little Plumbing & Heating, N. 1329 Howard; Arnold & Jeffers, S. 1309 Ash; DeLong Plumbing & Heating, 21 W. Main; Crowder Heating Co., 1800 Taylor Ave.; Ace Refrigeration & Air Conditioning, 237 W. Trent; Hamilton Heating & Sheet Meal, N. 10 Helena; Staley Heating Co., 1760 N.E. Dekum, Portland. All of Spokane unless noted.

LL 8-9

■ **HOSPITAL— Ilwaco, Wash.**

(Estimated cost $125,000)

Planholders announced for construction of a one-story, concrete block and frame, 5,950 sq. ft. wing addition to the Ocean Beach Hospital at Ilwaco, on which bids will be opened 1:30 p.m., September 4, by Public Hospital District No. 1 of Pacific County in the hospital manager's office, Ilwaco. Plans with Robert E. Newhall, architect, 1417 15th Ave., Longview.

Planholders: Sterner Construction Co., 13845 S.E. Rhine, Portland; Albert Mittet, 397 Kensington Ave., Astoria; J. J. Flaskerud, 2151 Delaware St., Longview; Amos J. Peters, 747 Commerce, Longview; Robert L. Kellogg, Pacific Highway North, Kelso; Lent's, Inc., 279 4th St., Bremerton; Abrahamsen Co., 1062 Marine Drive, Astoria; Opal Symons, Box 14, Olympia; J. H. Kelly Plumbing & Heating, 1157 Commerce, Longview; Jack L. Sailors, 135 Riverview Drive, Longview; Ford Electric Service, 510 Commercial St., Raymond; Duoos & Son, Box 222, Astoria. SP 8-10. Previous report 7-25

★**PENNEY STORE BUILDING—Kent, Wash.**

Award to McIntryre Construction Co., 320 Railroad Ave. N., Kent, $142,879, by Asal Strain, president of Purchasers, Inc., 215 N. Central, Kent, for construction of a 20,000 sq. ft. J. C. Penney store on Meeker and Harrison, between 2nd and 4th avenues, Kent. Plans by Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle.

PD 8-9. Previous report 7-5

★**JUNIOR HIGH SCHOOL BUILDING— Kent, Wash.**

Awards will be made pending state approval by Kent School District No. 415, John Boyle, business manager, 9800 Kent-Black Diamond Road, Kent, for construction of a one-story 5,350 sq. ft. addition to the existing Junior High School, North Central, Kent, to the following. AWARDS—General: Carl Nilson & Son, 20 1st St. S.E., Auburn, $53,450. MECHANICAL: Ashwell-Twist Co., 967 Thomas St., Seattle, $19,041. ELECTRICAL: Valley Electric, 126 W. Main, Auburn, $6,779. Plans by Mallis & DeHart, architects, Lyon Bldg., Seattle. PD 8-9. Previous report 8-8

▲**STEAM HEATING FACILITIES— Maple Valley, Wash.**

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing and installing 102 pressure steam heating facilities and reconditioning existing boiler plant at Road District No. 2 shops, Maple Valley, approximately five mi. southeast of Renton. Bids opened August 12. BIDS—Basic: L. G. Massart Plumbing & Heating, 4501 9th Ave. N.W., $15,392; Boyker Plumbing & Heating, Inc., 2627 Eastlake, $17,865; Bellevue Plumbing & Heating, 10149 Main St., Bellevue, $18,100; University Plumbing & Heating, 3941 University Way, $18,457; Navarre Plumbing & Heating Co., Inc., 3839 Stone Way, $19,857. All of Seattle except as noted.

PD 8-13. Previous report 8-7

▲**HANGAR REPAIR—McChord AFB, Wash.**

Bids are still being studied by U.S. Air Force, Purchasing and Contracting Office, McChord AFB, for structural repair of hangars Nos. 1 and 2 at the base, Proj. No. McC 193-7 and 194-7, Inv. No. 57-117. BIDDERS: Roy T. Earley Co., 321 Middle Waterway, Tacoma, $458,516 (basic, aluminum siding and roofing), $441,174 (alt. 1-A, galvanized steel), $546,926 (alt. 1-B, asbestos-protected metal); Alton V. Phillips Co., 4055 21st West, Seattle, $528,236, $518,724, $620,818; West Coast Steel Works, 5609 N.E. 77th, Portland, Ore., $674,993, $676,380, $734,880; Arthur Fralick Co., 3008 E. 57th, Seattle, $699,658, $682,292, $724,585; Jardeen Bros., 1240 S. Sprague, Tacoma, $819,000, $788,000, no bid; Dale Benz, Phoenix, Ariz., $1,026,524, $999,182, $1,089,640.

SC 8-9. Previous report 7-6

▲**BLEACHERS— Mercer Island, Wash.**

Bids received by Mercer Island School District No. 400, in the superintendent's office, Mercer Crest School, 86th S.E. 42nd, Mercer Island, for construction of bleachers for the Mercer Island High School field. Plans by Bassetti & Morse, architects, 1602 Tower Bldg., Seattle. Bids opened August 8. Following are basic bids; position of the two low bidders may be changed if alternates are exercised. BIDDERS: Big Bend, Inc., 712 Randolph Place, $4,500; Roxbury Construction Co., 226 109th S.E., Bellevue, $5,195; United Construction Co., 3627 Findlay St., $5,400; Derr Construction Co., 6730 S. 133rd, $5,430; Jentoft & Forbes, 927 W. 46th, $5,550; Dale Madden, 3010 E. 163rd, $7,510; Russ Davis Concrete Construction Co., 3314 Mount Tacoma Drive, Tacoma, $7,943; Norge Construction Co., 5008 Admiral Way, $7,950. Of Seattle unless noted.

SP 8-10. Previous report 8-6

▲**RESIDENCES— Okanogan, Wash.**

Bids received by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, Ore., for construction of Early Winters Ranger Station residence No. R-202 and Winthrop Ranger Station residence No. R-502 on the Okanogan National Forest, Okanogan County, Wash.; Bid No. 26. BIDDERS: George E. Wisman & Son, 12350 19th N.E., Seattle, $32,750; Cusicks, Inc., Wenatchee, $49,982; Armstrong & Armstrong, Wenatchee, $55,500. Bids opened August 7.

WB 8-14. Previous report 7-19

JUNIOR HIGH SCHOOL— Opportunity, Wash.

(Estimated cost $700,000)

Preliminary plans underway by Victor Louis Wulff, architect, W. 1526 Riverside Ave., Spokane, for construction of a 52,000 sq. ft. junior high school on S. Bowdish St. in Opportunity, for Central Valley School District No. 356, Gilbert Mills, superintendent, N. 607 Pines Road, Opportunity. Completion expected by fall of 1958.

SP 8-9. Previous report 1-24

★**SCHOOL ADDITION—Opportunity, Wash.**

Award to Ken Custis Construction Co., E. 741 23rd, Spokane, $62,288, by Central Valley School District No. 356, N. 607 Pines, Opportunity, for construction of a frame and masonry six-classroom addition to the McDonald Elementary School. Plans by Victor Louis Wulff, architect, 1526 W. Riverside Ave., Spokane.

LL 8-14. Previous report 7-30

SEEDHOUSE ADDITION— Pullman, Wash.

(Estimated cost $35,000)

Following is additional description on the two-story, 6,000 sq. ft., concrete addition to the agronomy seedhouse at Washington State College in Pullman, on which bids will be opened 2 p.m., August 15, by Board of Regents, 303 Administrative Bldg., WSC campus, Pullman. Plans by Lawrence G. Evanoff, architect, 5615 American Legion Bldg., Spokane.

Addition to be 50'x60'; reinforced concrete footings and foundations; tilt-up concrete walls; concrete slab beam and girder floors; timber and concrete girders, beams, columns; frame partitions; flat glued laminated roof; steel windows; drywall partitions; concrete flooring; concrete ceilings; wood and steel doors; folding overhead

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SP 8-7. Previous report 7-31

POULTRY PLANT STRUCTURES— Pullman, Wash.
(Estimated cost $300,000)

Bids will be called in 1958 by Washington State College, Pullman, for eight frame buildings, two of which will be two-story with basement and the others one-story, to comprise the poultry plant for the college. Plans by Funk, Murray & Johnson, architects, 524 W. 4th, Spokane. Bids will be taken by Philip Keene, college architect, Services Bldg., WSC, Pullman.

Work consists of remodeling and moving of four buildings and construction of four new buildings. Concrete footings and foundation; poured concrete walls; frame and slab floors; timber, steel girders, beams, columns; truss roof; frame partitions; wood windows; painted siding on exterior of buildings; exposed masonry, drywall partitions; wood flooring; plaster, drywall ceilings; blanket and fill insulation in ceilings; oil and gas heating system.
SP 8-9. Previous report 6-27

ELEMENTARY SCHOOL, GRADE SCHOOL ADDITIONS— Pullman, Wash.
(Estimated cost $300,000 Military, $135,000 Franklin)

Following is additional description for construction of the one-story 21,900 sq. ft. eight-classroom Military Hill Elementary School and/or a 170x76' four-classroom addition to Franklin Elementary School. Bids will be opened 3 p. m., August 29, by Pullman School District No. 307, Ruth Gleason, clerk, in the office of McClure & Adkison, architects, 707 Sherwood Bldg., Spokane.

MILITARY SCHOOL: Slab on grade with glued laminated post-and-beam structure; wood decking; built-up roofing; skylights (alternate); brick veneer exterior walls; aluminum sash; concrete block interior partitions; acoustical tile ceilings; composition tile flooring; concentric ring lighting; some precast concrete wall panels; steam heating system serving unit ventilators. FRANKLIN SCHOOL: Construction generally the same as the above school; small amount of remodeling to existing school included in the contract. SC 8-14. Previous report 8-7

INCINERATOR— Pullman, Wash.

Plans will be complete in the fall by Kenneth W. Brooks, architect, W. 707 5th Ave., Spokane, for construction of a two-story and no basement, 5,000 sq. ft. incinerator to be located on the Airport Road, north of the Moscow-Pullman Highway, at Pullman, for Washington State College in Pullman. Completion is expected during 1958. SP 8-14. Previous report 8-7

▲CHURCH, RECTORY— Quincy, Wash.

Bids received in the office of the architects, Roger Gotteland, A.I.A. & Associates, 2nd and Cherry Bldg., Seattle, for construction of a 450-seating capacity, 120'x52' confraternity center and rectory on Central Ave. north of Wenatchee Ave. Quincy. The structure will be built for Saint Pius IX Parish, Diocese of Yakima, Most Rev. Joseph P. Dougherty, bishop, Liberty Bldg., Yakima. Plans by above architect.

LOW BID: L & S Construction Co., W. 1014 Broadway, Moses Lake, $236,727; Jensen-Rasmussen, Box 69, Sunnyside, $243,270; Mowat Brothers, 2833 Eastlake, Seattle, $247,047; Cusick Construction Co., 739 S. Mission, Wenatchee, $254,657; Moen Construction Co., Gilbert Moen, 516 S. 5th Ave., Yakima, $271,600. Award will be made within the next two weeks. PD 8-9. Previous report 8-3

▲SCHOOL ADDITIONS— Randle, Wash.

Bids received by White Pass School District No. 303, Randle, for construction of two one-story school building additions to existing Randle school building. Bids opened August 8. Plans by Mallis & DeHart, architects, Lyon Bldg., Seattle.

LOW BIDS—General: Korsmo Bros., 5944 Lake Grove Ave. S.W., Tacoma, $76,679; Sanford Wright, 302 Clark Bldg., Everett, $78,151; Hans M. Skov Construction Co., 343 Liberty Bldg., Yakima, $79,627. Mechanical: Standard Plumbing & Heating of Bremerton, Inc., 2004 E. 10th, Bremerton, $37,787; Addco, Inc., 1117 A St., Tacoma, $38,873; Longview Plumbing & Heating, 1146 Commerce Ave., Longview, $39,972. Electrical: Carl T. Madsen, Box 1545, Tacoma, $13,143; Glassey-Roth, 221½ S. 38th, Tacoma, $13,927; Smith & Wilson, Union Gap, $14,125.
PD 8-10. Previous report 7-31

●LOOKOUT TOWER— Randle, Wash.

Bids will be opened 2 p. m., August 19, by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., room 18, (Box 4137), Portland, for erection of a lookout tower of native peeled timbers and dimensional lumber, including catwalk with stairs and lighting protection on new tower, placement of existing house on new tower at Strawberry Lookout approximately 30 mi. southwest of Randle, Gifford Pinchot National Forest, Wash.; Bid No. 45. Specifications with above office. WB 8-14

BAPTIST CHURCH— Redmond, Wash.

Plans announced by Fellowship of Baptists for Home Mission, Inc., for construction of a new church for the greater Redmond area, for First Baptist Church, Rev. Gifford Roach, pastor, Box 334, Redmond. SC 8-8

▲METHODIST CHURCH— Renton, Wash.

Bids received by First Methodist Church, Lawrence Linnemann, pastor, 2nd and Mill St., Renton, for construction of a two-level church on Cemetery Road, Renton, about ½ mi. east of Renton. Bids opened August 7. Plans by Durham Anderson & Freed, architects, 1100 Denny Way, Seattle. BIDS: Nels Hedin & Co., 2212 Federal, $145,900; H. Halvorson, Inc., 20054 Pacific Highway S., $151,800; B. F. Turnbull, Inc., 4351 Leary Way, $163,750; Jentoft & Forbes, 927 W. 46th, $172,500. All of Seattle.
PD 8-9. Previous report 8-2

★ALUMINUM SASH— Seattle, Wash.

Award to Fentron Industries, Inc., 2801 Market St., Seattle, $1,432, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing aluminum sash. PD 8-7. Previous report 8-2

INDUSTRIAL SITE— Seattle, Wash.
(Estimated cost $2,000,000)

Plans announced by Stimson Mill Co., David Stimson, president, 2116 Vernon Place, Seattle, for development of the company's property on Shilshole at Vernon Place in the Ballard district, Seattle, to provide a waterfront industrial site. The mill is being razed and the area filled and remodeled to suit the needs of whatever tenants should want space. Property is about 400,000 sq. ft., with 800' waterfront on the Salmon Bay waterway and the same amount of railroad track along Shilshole Ave. The waterfront provides the widest possible turn basin between the site and Lake Union. Discussion has indicated the possibilty of converting the waterfront area for use as a marina and small boat moorage. Site planning is the responsibility of LaMont & Fey, architects and industrial engineers, 308 Columbia, Seattle. Negotiations are being handled by Lawrence W. Wiley, appraiser, 411 Seneca, Seattle. SC 8-9

★STORE REMODELING— Seattle, Wash.

Award to Baugh Construction Co., 922 Poplar Place, Seattle, $25,240, by owners of Doces Majestic Furniture Store, 1521 6th Ave., Seattle, for remodeling of store interior and front. Plans by John Graham & Co., architects, 1426 5th Ave. Bldg.,Seattle. Construction is underway.
PD 8-9. Previous report 7-31

▲BLUE RIDGE CLUBHOUSE—Seattle, Wash.

Bids received by Blue Ridge Club, Inc., Seattle, for construction of a new 4,200 sq. ft. two-level clubhouse on the southeast corner of 15th Ave. N.W. and W. 103rd St. in Seattle. Bids opened July 24. Plans by John Ridley, designer, Box 115F, Port Blakely, Bainbridge Island. LOW BID: Kristjanson Bros., 7322 25th N.W., Seattle, $55,858. OTHER BIDS: Nick Zeorich, $57,200; Richard Keenan, 1302 Woodbine Way, $60,970; Nels Hedin & Co., 2312 Federal, $61,845; Stewart-Martens Co., 7417 Greenwood, $63,524; Guy McFarland, Sr., 3334 Blakely, $63,583; O. B. Daniels & Son, 2271 Sunset Highway, $63,676; Criterion Building Co., 3449 38th W., $64,680. All of Seattle except as noted. PD 8-10. Previous report 7-30

PARKING GARAGE— Seattle, Wash.

Bids received August 5 (no figures available) are being held for further study by Emil Gaupholm, owner, for construction of an open-deck parking garage in Seattle. Plans by John I. Mattson, architect, Lowman Bldg., Seattle. Further action will be taken about the first week in September.
PD 8-9. Previous report 8-3

▲SCIENCE BUILDING ALTERATIONS— Seattle, Wash.

Bids received by Board of Regents, University of Washington, Seattle, for alterations to (1) 1,000 sq. ft. of Microbiology and Pathology departments, (2) 1,000 sq. ft. of Anatomy department, in the Health Sciences Building on the campus. Plans by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. Bids opened August 9.

APPARENT LOW BID: E. F. Shuck Construction Co., Inc., 535 Pontius, Seattle, $28,824 (Microbiology and Pathology), $17,692 (Anatomy). PD 8-10. Previous report 8-2

★CHURCH ADDITION— Seattle, Wash.

Award to Sellen Construction Co., Inc., 228 9th Ave. N., Seattle, $117,006 (basic plus three alternates), by Church of The Ascension, 2330 Vermont Way, Seattle, for construction of a two-story 8,700 sq. ft. addition to the existing church at above address. Plans by Young, Richardson & Carleton, architects, Central Bldg., Seattle.
PD 8-10. Previous report 8-1

●UNIVERSITY ALTERATIONS— Seattle, Wash.

Bids to be opened 2 p.m., August 27, by J. W. Harding, purchasing agent, University of Washington, 210 Administration Bldg., university campus, Seattle, for alterations to the Health Sciences Bldg. of Department of Biochemistry on the campus. Plans with Naramore, Bain, Brady & Johanson, architects, and McClellan & Jones, associated architects and engineers, 904 7th Ave., Seattle. $15 deposit. General contract to include mechanical and electrical work. Work involves furnishing and installing a custom-built chemistry hood, 8'x36'x24' (approximate); miscellaneous sheet metal and iron work; metal, wood cabinets. PD 8-10

▲RESIDENCE— Seattle, Wash.

Amounts of bids received August 5 on construction of a two-story, 3,964 sq. ft. residence for O. F. Weyerman, near Salt Water State Park will not be released until further study. Plans by Paul Hayden Kirk, A.I.A., & Associates, 615 Lakeview Blvd., Seattle. PD 8-13. Previous report 7-30

▲STORAGE, LABORATORY ADDITION— Seattle, Wash.

Bids received by W. P. Fuller & Co., 1437 Leary Way, Seattle, for construction of a 50'x50' two-story storage and laboratory addition to existing building at above address. Bids opened August 12. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle.

LOW BID: C. W. Hufeisen, 815 3rd Ave. N., Seattle, $92,402. ONLY OTHER BIDS: Noble W. White, Pier 65, Seattle, $93,445; C & R Builders, 1619 8th Ave. N., Seattle, $102,075. JD 8-13. Previous report 8-9

●NORTHWEST ELEMENTARY SHCOOL— Seattle, Wash.

Bids will be opened 11 a.m., August 29, in school district administration office, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for construction of the 35,000 sq. ft. one-story Northwest Elementary School at W. 90th and 24th Ave. N.W., Seattle. Plans with John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle. $50 deposit. Plans involve: 15 classrooms, gymnasium, auditorium and kitchen; slab-

on-grade; part tilt-up walls, aluminum curtain walls, some brick veneer exterior; aluminum windows; built-up roof, 2" t&g decking, glued laminated beams; plaster and plasterboard partitions, blanket type insulation in partitions; asphalt tile, birch floorings; oil-fired heat, some unit heaters, some convectors. PD 8-13. Previous report 5-18

●ROXHILL SCHOOL— Seattle, Wash.

Bids will be opened 11 a.m., August 29, in school district administration office, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for construction of an 18-classroom, gymnasium and auditorium building at Roxhill Elementary School, 28th Ave. S.W. and W. Roxbury, Seattle. Plans with John Graham & Co., architects and engineers, 1426 5th Ave. Bldg., Seattle. $50 deposit. One-story; 42,000 sq. ft.; wood frame classroom wing with insulated panel exterior walls, tile-up concrete gymnasium and auditorium walls; built-up roofing; concrete floors and foundations; interior walls plaster and plasterboard; acoustical ceilings; asphalt tile flooring; fir millwork; maple gypmnasium floor and stage. PD 8-13. Previous report 5-8

●SANDPOINT SCHOOL— Seattle, Wash.

Bids to be opened 11 a.m., September 10, by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of a one-story, 14-classroom school at 60th Ave. N.E. and E. 62nd, Seattle. Plans with George W. Stoddard-Huggard & Associates, architects and engineers, 1120 Harvard Ave., Seattle. $25 deposit. Plans call for 37,000 sq. ft. floor area, steel frame, steel deck, brick veneer, flat built-up roof, steel sash, frame and plasterboard partitions, division walls of masonry, acoustical tile, asphalt and ceramic tile flooring, forced hot water heating system, fluorescent and incandescent lighting. PD 8-13. Previous report 4-3

●RESIDENCE— Seattle, Wash.

(Estimated cost $28,000)

Bids will be opened 4:30 p.m., August 29, in the office of architects Paul Hayden Kirk, A.I.A. & Associates, 615 Lakeview Blvd., Seattle, for construction of a four-level, daylight basement, 2,566 sq. ft. residence for John Gregg at Champagne Point, Seattle. $10 deposit on plans. Poured concrete foundations; wood frame; slab-on-grade; flat roof; wood sash; drywall, ceramic tile partitions; slate, carpeting; wood slab, aluminum sliding doors; corrugated plastic skylight; aluminum foil insulation in walls and ceiling; oil-fired warm air heat. PD 8-14

■HIGH SCHOOL ADDITIONS— Seattle, Wash.

Planholders announced for construction of a nine-classroom building, and a multipurpose room addition at E. 185th St. and 1st Ave. N.E., Seattle. Bids will be opened 8 p.m., August 22, by Shoreline School District No. 412, E. 158th and 20th Ave. N.E., Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Planholders: Glacier Construction, 5536 Coniston Road; Brady Construction, 707 Spokane; Anderson Construction Co., Inc., Central Bldg.; Leavitt-Chandler & Co., Lake Washington Shipyards, Houghton; E. F. Shuck Construction Co., Inc., 535 Pontius, Of Seattle PD 8-14. Previous report 7-30

●■RESIDENCE— Seattle, Wash.

Bids will be opened 2 p.m., August 20, in office of architect Harold J. Nesland, 657 Skinner Bldg., Seattle, for construction of a 1,370 sq. ft. one-story wood frame residence near White Center, for Gordon Cheney, Seattle. $5 deposit. Post and beam construction; pitched 3-ply built-up roof, 4" fiberglass insulation, aluminum vapor seal in roof, marble chips; wood sash, metal vents; drywall partitions; acoustical plaster ceiling; oxide concrete chloride terrazzo, some carpeting, ceramic tile; formica counter tops; prefabricated metal fireplace and hood; oil-fired hot air heat.

Planholders: Frank Houpt, 2739 Garlough Ave.; L. R. Owen, 16015 23rd S.W.; Lee & Kiehlbauch, 3923 Morgan; Gordon Perry, 17228 8th S.W.; Lloyd Farrell, 16657 15th S.W.; Ollom Construction, 2315 W. Spokane.

★STORE ADDITIONS— Seattle (Harbor Island), Wash.

Award to General Construction Co., 3840 Iowa, Seattle, (no figure available), by Todd Shipyards on Harbor Island, for construction of stores and mold loft building addition. Plans by Marshall, Barr & Associates, engineers, Lloyd Bldg., Seattle.

PD 8-9. Previous report 8-1

●POST OFFICE— Sequim, Wash.

Bids will be received through September 30, by Post Office Department, John L. Van Buskirk, regional real estate manager, Box 3703, Portland, for construction of 3,000 sq. ft. post office building on south side of Cedar St. between Seal St. and 1st Ave. W. Specifications with Mr. VanBuskirk. Plans include 340 sq. ft. of platform area and 6,375 sq. ft. of outside maneuvering and parking space. WB 8-14

★ADMINISTRATION BUILDING— Sequim, Wash.

Contract has been negotiated with Farlin J. Sahli, Coupeville, no figure available, by Sequim School District No. 323, Sequim, for construction of a four-room 1,100 sq. ft. administration building. Plans by Mallis & DeHart, architects, Lyon Bldg., Seattle.

PD 8-14. Previous report 6-6

JUNIOR HIGH SCHOOL— Spanaway, Wash.

Bids will be called within the next two months by Bethel School District No. 403, Dewane Lamka, superintendent, Route 1, Box 289-AB, Spanaway, for construction of the new Bethel Junior High School, including 20 teaching rooms, shop and vocational agriculture facilities, a physical education gymnasium, home economics room, cafeteria, library and music room, at Spanaway. Plans by Botesch & Brown, architects, Commerce Bldg., Everett.

SC 8-7. Previous report 6-26

★MULTIPURPOSE UNITS—Spokane, Wash.

General contract awards announced by School District No. 81, W. 503 West Rve., Spokane, for construction of seven 70'x100' Haydite block multipurpose units at Hamblen, Lincoln Heights, Pratt, Holmes, Lidgerwood, Ridgeview and Westview elementary schools in Spokane. Plans by architects Stuart Blackwell & Associates, N. 119 Post St., and Frederic A. Long, 500 Columbia Bldg., both Spokane. Mechanical and electrical awards were previously announced in PCD 7-26. GENERAL AWARDS: Purvis Construction Co., Box 64, Yardley, $288,455 (south); Peter J. Young, 1211 E. Columbia, Spokane, $384,880 (north).

LL 8-14. Previous report 7-26

★GRADE SCHOOL— Stanwood, Wash.

Award to Wick Construction Co., 720 N. 35th, Seattle, $117,950, by Twin City Joint School District No. 401, Stanwood, for construction of an eight-classroom East Stanwood Elementary School building at Husby and Washington streets in Stanwood. Plans by Mallis & DeHart, architects, Lyon Bldg., Seattle. PD 8-14. Previous report 7-19

PRESBYTERIAN CHURCH— Tacoma, Wash.

Preliminary drawings are underway by Worthen, Wing, Seifert & Forbes, architects and engineers, 9152 Gravelly Lake Drive, Tacoma, for construction of Faith Bible Presbyterian Church on South 8th and Shirley, Tacoma. Seating capacity is 400. Construction is expected to start early next year. PD 8-1

RESIDENCE— Tacoma, Wash.

Preliminary plans are completed by Robert Billsbrough Price, architect, 2907 A St., Tacoma, for construction of a 2,200 sq. ft. wood frame residence on Sound View Drive and Rock Road, Tacoma, for Cliff Halfhill. Construction will be underway this fall. Plans include one-story bi-necular; flat built-up roof; glued laminated beams, cedar siding; drywall, cedar partitions; aluminum sliding door units; wood windows; landscape architecture. PD 8-1

▲ELEMENTARY SCHOOL— Tacoma, Wash.

Bids received by Clover Park School District No. 400, Pierce County, in the business office at 5214 Steilacoom Blvd., Tacoma, for construction of a five-building, cluster-type Tyee Park elementary school at 11620 Seminole Road S.W. in Tacoma. Plans by Donald F. Burr & Associates, architects, 6103 Mt. Tacoma Drive S.W., Tacoma. Bids opened August 8. Following are all basic bids; position of bidders may be altered if alternates are exercised. APPARENT LOW BIDS— GENERAL: Strom Construction Co., 909 Karl Johan Road, $243,252; Jardeen Bros., 1240 S. Sprague, $244,626; M & O Construction Co., 1323 S. K St., $260,425. MECHANICAL: Pease & Sons, 10610 Waller Road, $45,673; Howard Chapman, 1940 S. Wilkeson, $51,707; H-K Western, 1714 S. Tacoma Way, $53,000. ELECTRICAL: Electric Construction Co., 1650 Center, $72,442; Conners Electric, 2523 Jefferson, $73,423; Jardeen Electric, 1232 S. Sprague, $76,467. All of Tacoma.

SP 8-10. Previous report 7-24

E BUILDING COMPLETION— Vancouver, Wash.

(Estimated cost $18,000)

Fund raising project nearly finished, with $12,000 of the needed $18,000 accounted for by Clark County Fair E Building Committee, Vancouver, for completion of the E Building at the fairgrounds. SC 8-9

RESIDENCE— Yakima, Wash.

(Estimated cost $17,000)

Construction to start immediately by E. M. McCory, general contractor, Yakima, for a new brick veneer residence at 103 N. 40th Ave. in Yakima, for owner Neill Martinell, 705 S. 16th Ave., Yakima. Building to have built-up roofing; basement; wood floors; wood lath and plaster interior walls; plaster and paint ceilings; forced warm air heating system. IG 8-9

BANK— Yakima, Wash.

(Estimated cost $50,000)

Work underway by Hill Construction Co., 102 S. 5th Ave., Yakima, for remodeling the old Lenox Hotel at 204 W. Yakima Ave. for use as an office building by National Bank of Washington, West Side Branch, Arthur S. Coffin, vice-president, 2nd Ave. and W. Yakima Ave., Yakima. Work consists of new partitions; replastering of walls; ceiling painting, acoustical tile; asphalt tile flooring. IG 8-9

★RESIDENCE— Yakima, Wash.

Contract negotiated with Jake Leingang, 3804 Summitview Ave., Yakima, $82,000, by Paul Mercy, owner, 301 E. Yakima Ave., Yakima, for construction of a residence in the Scenic Drive Addition in Yakima. Plans by Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima. IG 8-9. Previous report 4-20

★CAFE REMODELING, ADDITION— Yakima, Wash.

Award to Gilbert H. Moen, only bidder, 516 S. 5th Ave., Yakima, $17,965, by Don Clark, owner, for remodeling and constructing a frame and stone dining room addition to the Triple-X Cafe on 1st St. in Yakima. Plans by Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima. Bids opened August 6. IG 8-9. Previous report 8-3

IDAHO

●MONROE SCHOOL ADDITION— Boise, Idaho

(Estimated cost $80,000)

Bids will be opened 12 noon, August 26, by Boise Independent School District, D. C. Beaumont, superintendent, Administration Bldg., 1207 Fort St., Boise, for construction of a one-story, 5,490 sq. ft., four-classroom addition to Monroe Elementary School at 3615 Cassia St. in Boise. Plans with architects Rodney J. Grider, 1321 Vista, and Nat J. Adams, Idaho Bldg., both Boise. $25 deposit. Bid bond 5%.

No basement included; independent concrete columns with spandrel walls; tilt-up concrete, solid masonry walls; concrete slab floors; prestressed girders, beams; Haydite roof channel slabs; masonry and frame par-

titions; steel windows; concrete and brick exterior, plaster and exposed block interior wall finish; wood trim; exposed masonry, plaster and gypsum lath partitions; asphalt tile flooring; acoustical ceilings in corridors; corrugated plastic panels for sun control on south side; blackboards; 1" rigid insulation in roof; hot water convector and forced air heating split system, oil fuel.
SP 8-13. Previous report 5-8

●GRADE SCHOOLS— Bruneau, Grandview, Idaho
(Estimated cost $300,000)

Following is additional description for construction of two one-story frame and brick veneer elementary schools, an eight-classroom school at Grandview and a four-classroom school at Bruneau, on which bids will be opened 8 p. m., August 23, by Grandview-Bruneau Joint Class B School District No. 365, Robert F. Jones, superintendent, in the gymnasium of the High School, Grandview. Plans with Charles W. Johnston, architect, 13 N. 8th St., Payette.

Concrete footings and foundation; 18,854 sq. ft. (Grandview) and 13,226 sq. ft. (Bruneau) floor space; alternate for pumice block walls; frame floors; glued laminated truss roof; frame partitions; steel windows; maple flooring; acoustical ceilings; corrugated plastic panels; mineral wood insulation in walls and ceilings; hot water heating systems, coal fuel; forced air ventilating systems.
SP 8-9. Previous report 8-8

SANCTUARY— Caldwell, Idaho
(Estimated cost $145,000)

Bids will be called soon for construction of a sanctuary for the First Methodist Church, Rev. Harold N. Nye, pastor, Caldwell. Plans by Charles W. Johnston, architect, 13 N. 8th St., Payette, and Edmundson, Kochendoerfer and Kennedy, architects and engineer, 325 Henry Bldg., Portland, Ore.
SP 8-9. Previous report 7-5

★GYMNASIUM REMODELING— Culdesac, Idaho

Award to Pearson Bros., Lewiston, $5,533, by Culdesac Joint Independent School District No. 342, Culdesac, for repairing and remodeling the school gymnasium dressing rooms. Plans by P. H. Putnam, architect, Box 515, Lewiston.
SP 8-14

★RESIDENCE— Grangeville, Idaho

Award to Grangeville Lumber Co., Grangeville, $26,600, by H. W. Haynes, owner, Grangeville, for construction of a residence. Plans by P. H. Putnam, architect, Box 515, Lewiston.
SP 8-14

★SPRINKLERS— Moscow, Idaho

Award to Grinnell Co. of the Pacific, E. 909 Sprague, Spokane, $38,338, by University of Idaho, Moscow, for installation of automatic fire sprinkler systems for Forner Hall, Lindley Hall, Hayes Hall, Chrisman Hall and Willis Sweet Hall at the university.
SP 8-10. Previous report 8-3

●■FALSE CEILING— Mountain Home AFB, Idaho

Bids will be opened 11 a. m., August 19, by U. S. Air Force, Procurement Office, Mountain Home AFB, for construction of a false ceiling in room No. 5, Bldg. No. 1224, Mountain Home AFB; IFB 10-603-58-4. Specifications with above office. Bid bond 20%.

Planholders: C. W. Watkins & Son, Box 1786, Boise; Babbitt Construction Co., Box 4038, Boise; G & M Construction Co., 611 E. Park Blvd., Boise; Max A. Boesiger, 185 E. Broadway Ave., Boise; Welsh Bros., 920 Broadway Ave., Boise; J. H. Wise & Son, 222 Broadway Ave., Boise; Nottingham Construction Co., Box 1545, Boise; E. A. Fulton, 1709 Main St., Boise; James E. Mason, Hagerman; Johnson Bros., 460 S. 2nd East, Mountain Home; Barney Builders, 202 E. Ash St., Caldwell; H. S. McGonigull, Box 1036, Boise.
GH 8-14

●■FATIGUE BAR— Mountain Home AFB, Idaho

Bids will be opened 11 a. m., September 2, by U. S. Air Force, Procurement Office, Mountain Home AFB, for fatigue bar at the NCO club, including carpentry, plumbing, heating system, asphalt tile flooring, concrete work and painting, at the base; IFB 10-603-58-6. Plans with above office. Bid bond 20%.

Planholders: Hall Bros., Box 38, Glenns Ferry; Babbitt Construction Co., Box 4038, Boise; C. W. Watkins & Son, Box 1786, Boise; G & M Construction Co., 611 E. Park Blvd., Boise; Max A. Boesiger, 185 E. 2nd North, Mountain Home; Welsh Bros., 920 Broadway Ave., Boise; J. H. Wise & Son, 222 Broadway Ave., Boise; Nottingham Construction Co., Box 1545, Boise; E. A. Fulton, 1709 Main St., Boise; James E. Mason, Hagerman; Johnson Bros., 460 S. 2nd East, Mountain Home; Barney Builders, 202 E. Ash St., Caldwell; H. S. McGonigull, Box 1036, Boise.
GH 8-14

MONTANA

●HOSPITAL ADDITION— Boulder, Mont.
(Estimated cost $65,000)

Bids will be opened 10 a. m., August 29, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a one-story addition to existing hospital facilities at the State Training School at Boulder. Plans with J. G. Link & Associates, architects and engineers, 111 N. Montana Ave., Butte.
SC 8-9

■CLASSROOM BUILDING— Bozeman, Mont.

Additional planholders announced for construction of a four-story and partial basement, 80,000 sq. ft., solid masonry classroom building at Montana State College in Bozeman, on which bids will be opened 10 a. m., August 19, by State Board of Education, State Capitol Bldg., Helena. Plans with Cushing, Terrell & Associates, architects, 1333 Airport Road, Billings.

Planholders: H. Halvorson, Inc., Box 6, Yardley, Wash.; F. L. Dye Co., Bozeman; Rainbow Electric, 2220 River Drive, Great Falls.
EE 8-14. Previous report 8-7

DAIRY EXPERIMENT STATION— Bozeman, Mont.
(Estimated cost $143,166)

Following is additional description on the 291'x520' experimental dairy center to be constructed one mi. west of Bozeman for Montana State College in Bozeman, on which bids will be opened 10 a. m., August 23, by Montana State Board of Examiners, G. L. Bryant, executive secretary, Capitol Bldg., Helena. Plans with E. B. Wilson, extension agricultural engineer, Montana State College, Bozeman. $25 deposit.

Center to include one 36'x128' main building, six 22'x72' steel hay sheds, six 30'x41' cow sheds, 26'x76' calf and maternity barn, 22'x76' bull barn and 20'x30' hospital; block walls; concrete slab floors; steel girders, beams, columns; steel roof; masonry and frame partitions; wood stairways; steel windows; masonry exterior, paint and glazed tile interior wall finish; drywall partitions; asphalt tile flooring; drywall ceilings; wood, steel doors; milking equipment; styrofoam insulation in outside walls; hot air forced heating system, natural gas fuel.
SP 8-14. Previous report 8-2

ELEMENTARY SCHOOL ADDITION— Browning, Mont.

Plans approved by Montana State Board of Health, Helena, for construction of an addition to an elementary school in Browning.
SC 8-10

ELEMENTARY SCHOOL— Circle, Mont.

It was not noted in the contract award story (PCD 7-20) that bids on the mechanical portion of the new elementary school in Circle were rejected by McCone County School District No. 1, Circle. Bids will be readvertised on that portion. General contract was let to Idland & Undem, Circle, in the amount of $89,277.
SP 8-9. Previous report 7-20

SCHOOL IMPROVEMENTS— Gallatin County, Mont.

Plans approved by Montana Board of Health, Helena, for improvements to the Upper Bridger School in Gallatin County. Approval by the board is necessary before start of construction.
SC 8-10

COLLEGE BUILDING ADDITIONS— Havre, Mont.

Bids rejected due to lack of funds by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of an addition to the top floor of Cowan Hall to house a practical nurses' laboratory, and construction of a ground floor addition to the auto mechanics' building at Northern Montana College in Havre. Plans by Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell.
SC 8-9. Previous report 8-2

★SHOP BUILDING— Havre, Mont.

Award to Dale Anderson, Havre, $26,008, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for finishing projects at Montana State College in Havre and construction of an automotive shop building at the college.

▲EXECUTIVE MANSION— Helena, Mont.

Bids received by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of the two-story, 159½'x63', 5,900 sq. ft. Governor's mansion to be located at the corner of Carson and Broadway streets, about three blocks east of the Capitol Bldg., in Helena. Plans by Chandler C. Cohagen, architect, Hedden Bldg., Billings. Bids opened August 8. LOW BIDS—GENERAL: Mel Buck Construction Co., 401 1st Ave. N., Great Falls, $153,679 (basic), $1,777 (alt. 1 ded.), $3,314 (alt. 2 ded.), $1,934 (alt. 3 ded.); Elmer Pogue Construction Co., 1612 2nd St. W., Billings, $163,443, $3,348, $3,286, $1,748; Underseth & Logan, 916 Harrison St., Helena, $175,000, $3,563, $2,502, $1,359. MECHANICAL: Reber Plumbing & Heating, 805 N. Main, Helena, $28,373, $1,227, $974, $1,598; Carlson Plumbing & Heating, 28 W. 6th Ave., Helena, $28,737, $1,036, $1,314, $1,869; Raue Plumbing & Heating, 110 S. Last Chance Gulch, Helena, $33,106, $1,236, $905, $1,256. ELECTRICAL: Palmquist Electric, 420 N. Main, Helena, $13,510, $778, $507, $708; Bonnes Electric, 6 S. Park Ave., Helena, $15,957, $700, $450, $500. AID CONDITIONING: Reber Plumbing & Heating, Helena, $8,476, $2,652 (alt. 7 ded.), $2,706 (alt. 2 ded.); Empire Heating & Cooling Co., 1309 Division So., Billings, $9,012, $2,316, $2,566.
EE 8-13. Previous report 7-30

●OFFICE BUILDING— Kalispell, Mont.

Bids will be opened 10 a. m., August 29, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a 40'x100', one-story, pumice block Unemployment Compensation Commission office building with partial upper level at Kalispell. Plans with Taylor, Thon, Schwartz & Kirkpatrick, architects, 556 3rd Ave. East North, Kalispell. $25 deposit.

Brick facing; glued laminated beams; built-up roofing; 1" rigid insulation; double t&g V-joint spruce decking; acoustical tile; oil-fired forced hot water heating system using fin radiation.
SC 8-10

★STOCK BARN— Kalispell, Mont.

Award to L. J. Fishbaugh, Bigfork, $6,283 by Flathead County Commissioners, Courthouse, Kalispell, for construction of a 44'x 103' quonset type stock barn building in concrete foundation at the county fairgrounds at the northwestern edge of Kalispell.
RB 8-10. Previous report 8-6

▲CONVENT— Malta, Mont.

Bids received by St. Mary's Parish, Malta, for construction of a convent for the parish. Plans by George H. and Frank B. Shanley, architects, 201 Barber-Lydiard Bldg., Great Falls. Bids opened August 9. BIDS: Gaylord LaFond Construction Co., Malta, $42,897; Harold Meredith, Malta, $45,800; Bertus Construction Co., Lewistown, $43,460; Oliver Schubert, Chinook, $45,512; Morgan & Oswood, Glasgow, $48,925; Lenhart and Grey, Glasgow, $48,162.
RM 8-14. Previous report 8-1

●UNEMPLOYMENT OFFICE BUILDING— Miles City, Mont.

Bids will be opened 10 a.m., August 29, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helen, for construction of an office building for the Unemployment Compensation Commission at Miles City. Plans with J. G. Link & Co., architects, 317 Electric Bldg., Billings. $25 deposit. Certified check or bid bond 5%. EE 8-14

PACKING PLANT FIRE— Missoula, Mont.
(Estimated lost $200,000)

The Western Montana Packing Co. plant, two mi. north of Missoula on the Rattlesnake Road, was destroyed by fire on July 26, according to owner Percy Glasscock. The large pumice block structure was located between the road and Rattlesnake Creek. SC 8-1

SCHOOL ADDITION— Mystic Lake, Mont.

Plans approved by State Board of Health, Helena, for construction of an addition to the Mystic Lake school. SC 8-10

MOOSE LODGE— Sidney, Mont.
(Estimated cost $80,000 to $100,000)

Construction underway on the new 40'x 140' brick and cement block Sidney Moose Lodge building at Sidney. Demolition of the former building has been completed and excavation of the basement is nearly complete. SC 8-1

●EMPLOYE HOUSING— Warm Springs, Mont.
(Estimated cost $200,000)

Bids will be opened 10 a.m., August 29, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of 16 one-story units or eight duplexes to serve as employe housing at the State Hospital in Warm Springs. Plans with J. G. Link & Co., architects and engineers, 111 N. Montana Ave., Butte. SC 8-9

CHAPEL— Warm Springs, Mont.
(Estimated cost $42,000)

Plans under consideration by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for the proposed chapel building to be attached to the State Hospital building at Warm Springs. Plans by J. G. Link & Co., architects and engineers, 111 N. Montana Ave., Butte. The chapel will seat 100 persons. SC 8-9

ALASKA

NIKE SITE BUILDING— Anchorage, Alaska

Construction is well underway on Nike construction projects at Eielson AFB near Fairbanks, Fort Richardson, Elmendorf AFB and Anchorage, according to U.S. Army Engineers in Alaska.

Four guided missile installations are being built near Eielson AFB in Fairbanks area, by Peter Kiewit Sons' Co., Seattle, on an $11,842,238 contract awarded by the Corps of Engineers in April. Preliminary work on road and site clearing, well drilling, excavation for buildings, frame work and concrete pouring for foundations and some walls, is about complete.

Nike construction at Fort Richardson, Elmendorf and Anchorage was started soon after the Corps of Engineers awarded a contract of $9,495,744 to Patti-McDonald and M-B Contracting Co., St. Louis, Mo.

Work on each of the Nike sites includes construction of battery control building of 26,600 sq. ft.; launcher control building 7,000 sq. ft.; modified emergency construction; two launching section structures 10,590 sq. ft., monolithic concrete; fueling and fuel storage building 1,718 sq. ft., masonry; and installation of government furnished equipment; development of outside utilities, access roads and water service. DM 8-9

ELEMENTARY SCHOOL—Ketchikan, Alaska
(Estimated cost $1,500,000)

The Housing and Home Finance Agency has authorized $13,500 for the Ketchikan Independent School Dsitrict, J. E. Danielson, superintendent, Ketchikan, to finance preliminary planning for construction of a 20-room elementary school at Ketchikan. Plans by Linn A. Forest, architect, 622 Hemlock Way, Juneau. SC 8-3

●BUILDING ADDITION, GENERATOR, ACCESS ROAD— King Salmon, Alaska

Bids will be opened 2 p.m., August 30, by Corps of Engineers, Alaska District, D-E Bldg., Elmendorf AFB, Anchorage, for communications center consisting of the following: construction of a 35'x40' wood frame addition to an existing building; erection of two Government-furnished 60' antennae with de-icing heaters and ducts, and two feed horn towers; construction of wave guide supporting structures; replacement of an existing generator with a Government-furnished 170-kw unit; installation of a Government-furnished 100-kw generator; all required area grading, and improvement of 600' access road, at King Salmon; ENG-95-507-57-1. Plans with above office. Bid bond 20%. SP 8-10

▲VISITOR CENTER, UTILITIES— McKinley Park, Alaska

Bids received by Superintendent, Mount McKinley National Park, McKinley Park, Alaska, for construction of a one-story and partial basement 2,200 sq. ft. visitor center and utilities at Mount McKinley; Proj. No. McK-W128. Bids opened August 6. BIDDERS: Sweta Construction Co., Anchorage, $180,000; Chris Berg, Inc., Box 709, Fairbanks, $187,848; Fairbanks Builders, 1441 Laurene St., Fairbanks, $211,200.
SC 8-10. Previous report 7-23

★TERMINAL BUILDING— Portage, Alaska

Award to J. B. Warrack Co., 400 2nd Ave., Seattle, $202,500, by Alaska Railroad, Anchorage, for construction of a terminal building at Portage. SP 8-9. Previous report 7-20

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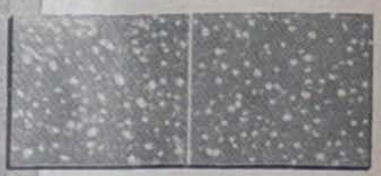
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●■ **JUNIOR COLLEGE ADDITION— Sitka, Alaska**

Bid opening extended from August 15 to 2 p.m., August 19, by Dr. Rolland Armstrong, president, Sheldon Jackson Junior College, Sitka, for construction of a two-story, wood frame, 50-student dormitory and an eight-room faculty residence at the college. Plans with Edwin B. Crittenden & Associates, 1565 F St. (Box 358), Anchorage. $35 deposit.

Planholders: Mr. Clyde Franks, Building Contractor, Sitka; McGillvray Brothers, Box 2128, Ketchikan; Western Builders, Box 1027, Sitka; Harri Plumbing and Heating, Box 1143, Juneau; Feero Company, Juneau; Lents, Incorporated, Bremerton, Wash.

RM 8-14. Previous report 8-8

ENGINEERING NEWS

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

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

OREGON

●**DERRICK— Ashland, Ore.**

Bid opening extended from August 13 to 2 p.m., August 20, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing one 50-ton stiffleg derrick complete with hoisting and slewing equipment and electrical controls for Green Springs Powerplant, Talent Division, Rogue River Basin Project, Ore.; DS-4520. SP 8-14. Previous report 7-25

TOWER ERECTION—Baker AF Station, Ore.

Bids will be opened about August 27 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of concrete tower foundation, erection of Government-furnished steel tower including small amount of grading work and asphaltic concrete pavement, tower heating and electrical systems, at Baker AF Station; ENG-45-108-58-7. Specifications with above office. SP 8-3

●**BRIDGE, ABUTMENT TIMBERS— Baker, Ore.**

Bids will be opened 11 a.m., P.S.T., August 22, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for prefabricated, treated and untreated bridge and abutment timbers, fob Baker, Ore.; Bid No. 51. WB 8-13

●**WELL DRILLING— Baker, Ore.**

Bids will be opened 2 p.m., August 19, by Bureau of Land Management, Box 3861, Portland, for drilling and casing a 350' deep well near Baker, Ore. WB 8-13

●**TENNIS COURTS— Clatskanie, Ore.**

Bids will be received until 8 p.m., August 21, by R. J. Pasco, clerk, Columbia County School Union High School District No. 5, Clatskanie, for construction of a tennis court. Plans with R. J. Pasco, City Hall, Clatskanie. $5 deposit. SC 8-13

●**ROAD RELOCATION— Cougar Reservoir, Ore.**

Bids will be opened 2 p.m., September 12, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Dam to Annie Creek, Cougar Reservoir, South Fork McKenzie River, about 8 mi. south of Blue River, Lane County, Ore.; CIVENG-35-026-58-20. Specifications with above office.

Quantities: 800,000 c.y. unclassified excavation; 50 acre roadway clearing; 230 acre reservoir clearing; 2,400 c.y. structural excavation; 74,000 c.y. mi. overhaul; 14,100 c.y. base course; 4,300 c.y. crushed stone leveling course; 100' corrugated metal pipe; 930' corrugated metal pipe culvert; 1,540' corrugated structural plate pipe.

SP 8-14. Previous report 8-13

●**PIPELINE RELOCATION—Estacada, Ore.**

Bids will be opened 2 p.m., August 27, by Portland General Electric Co., Fred G. Hodge, purchasing agent, 410 Maegly-Tichner Bldg., Portland, for relocation of a section of the Oregon City South Fork water pipeline about 5 mi. southeast of Estacada. Specifications with above office.

Includes installation of 15,000' of 18" pipe and dresser couplings to be supplied by the electric company; work includes trench with excavation and backfill, concrete supports and section of tunnel. WB 8-13

●**ROAD CONSTRUCTION— Estacada, Ore.**

Bids will be opened 2 p.m., August 29, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., P.O. Box 4137, Portland, for construction of approximately 1.39 mi. of Memaloose Road No. S455-1, about 10.5 mi. southeast of Estacada, Clackamas County, Mt. Hood National Forest, Oregon. Plans with Supervisor, Mt. Hood National Forest, 340 N.E. 122nd Ave., Portland, or with above office. WB 8-14

★**WELL DRILLING— Grant County, Ore.**

Award by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for well drilling at Dale Ranger Station, Grant County, Umatilla National Forest, Oregon. AWARD: Jewell Drilling Co., Baker, $3,335. Bids opened August 8. WB 8-13

●**FISH SCREEN STRUCTURES— Grants Pass, Ore.**

Bid opening extended from August 14 to 10 a.m., August 27, by Bureau of Reclamation, Box 386, Camp White, for a fish screen structure for Savage Rapids Dam, Grants Pass Project, near Grants Pass, Ore.; DC-4910. SP 8-14. Previous report 7-24

CONTROL BOARD, SUPERVISORY EQUIPMENT— Green Springs Powerplant, Ore.

Bids will be called about August 30 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for control board and supervisory equipment for Green Springs Powerplant, Rogue River Basin Project, Ore. SP 8-7

●**PAINT SPRAY OUTFIT— Hebo, Ore.**

Bids will be opened 11 a.m., P.S.T., August 22, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for one portable paint spray outfit mounted on small wheeled cart, fob District Ranger, Hebo District of Siuslaw National Forest, Hebo, Ore.; Bid No. 59. WB 8-14

★**STREET IMPROVEMENTS—Hillsboro, Ore.**

Award announced by City Council, City Hall, Hillsboro, for improvement of parts of E. Lincoln St. and N. 14th Ave. and for construction of about 3,500 sq. ft. concrete sidewalk on the south side of Jackson St. between N. 7th and 9th avenues in Hillsboro. Bids opened August 6. AWARD: Vanaken Sand & Gravel Co., Box 247, Forest Grove, $4,177. ONLY OTHER BID: Pacific Concrete Co., 10401 N.E. Marx, Portland, $2,450. SC 8-13. Previous report 7-31

●**ROAD RELOCATION— Hills Creek Reservoir, Ore.**

Bids will be opened 2 p.m., September 17, by Corps of Engineers, Portland office, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Dam to Packard Creek section, at Hills Creek Reservoir, Middle Fork Willamette River, about 4 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-58-18. Specifications with above office. Bid bond 20%.

Quantities: 1,100,000 c.y. unclassified excavation; 1,500 c.y. structural excavation; 225,000 c.y. mi. overhaul; 29,500 c.y. base course; 2,400 c.y. crushed stone leveling course; 4,080' corrugated metal pipe culvert; 1,380' corrugated structural plate pipe. SP 8-13

STREET WIDENING— Klamath Falls, Ore.

Bids will be called soon by City Council, City Hall, Klamath Falls, for widening of Dolores St. to 40' between Portland and Manzanita in Klamath Falls. ZZ 8-13

●**STORM SEWER SYSTEM—Medford, Ore.**

Bids will be opened August 26 by City Council, City Hall, Medford, for the first segment of a six-year storm sewer program, involving 5,800' of 30" and 42" interceptor storm sewer to extend from the alley between Lincoln and Hamilton streets on 8th St., along 8th St. to Laurel and south on 10th St., thence east to Bear Creek, on the west side of Medford. Specifications with city engineer at above address. SC 8-9. Previous report 7-13

TOWER ERECTION— Mt. Hebo AF Station, Ore.

Bids will be opened about August 28 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of concrete tower foundations, erection of Government-furnished steel tower including grading to tower site, tower heating and electrical systems, and extension to the steam distribution system, at Mt. Hebo AF Station; ENG-45-105-58-8. Specifications with above office. SP 8-3

●**WATER SUPPLY— Oregon City, Ore.**

Bids to be opened 8 p.m., September 18 by South Fork Water Board, City Hall, Oregon City for construction of a water supply project. Plans with Zella Bowers, secretary of the water board, above address and with Stevens & Thompson, consulting engineers, 2234 S.W. 5th, Portland (Box 508). $100 deposit. Certified check or bid bond 5%. The South Fork Water Board supplies water to the cities of Oregon City and West Linn.

Projects consists of a raw water intake and pumping station, a water purification works having a nominal capacity of 10 MGD, a water pumping station on Division St. in Oregon City, pipe line work to connect the facilities and transport water to a reservoir in Oregon City. Project is divided into four contracts: (1), raw water intake structure and pumping station, (2) water purification works, (3) Division St. pumping station, (4) pipe line work. DM 8-13

▲**STREETS, SEWERS— Oswego, Ore.**

Bids received by Mary Beerman, city recorder, City Hall, Oswego, for grading and paving Hemlock and Worthington streets, and Meadows Drive, and for sanitary sewer in same area. LOW BIDS—STREET: Parker & Fuhrman, 11524 S.E. Foster Road, Portland, $38,750; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $39,400; Portland Road & Driveway Co., 7295 S.E. King Road, $39,800. SEWER: Howard Stofiel, 7073 N. Minnesota Ave., Portland, $10,537; Oswego Plumbing & Heating Co., 256 "A" Ave., Oswego, $12,267; Riverside Construction Co., 12441 S.E. Market St., Portland, $12,342. Bids opened August 6. WB 8-10. Previous report 8-2

★**SEAL COATING— Portland, Ore.**

Award by Bureau of Public Roads, 753 Morgan Bldg., Portland, for constructing 13.180 mi. seal coat, Oregon Timber Access

Road Project BLM 1-A2, B1. Quartzville Road, Bureau of Land Management-Salem District, Linn County, Ore. AWARD: Berry Creek Construction Co., P. O. Box 395, Florence, $21,770. OTHER BIDS: Central Heating Co., Oregon Ltd., 865 Olive St., Eugene, $22,081; Morse Bros., P. O. Box 117, Harrisburg, $26,325. Bids opened August 7.
WB 8-10. Previous report 7-30

▲MATERIAL LOADERS— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing three material loaders. ONLY BID: Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., Portland, $20,355. Bids opened August 6.
WB 8-10. Previous report 7-23

▲LANDSCAPING— Portland, Ore.

Bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for lanscaping at James Madison High School. BIDDERS: Rich & Sons, McLoughlin Blvd., Oregon City, $16,119; E. B. Baltz & Son, 9817 E. Burnside St., Portland, $18,110. Bids opened August 7.
WB 8-13. Previous report 7-12

▲CRAWLER TRACTOR— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing one crawler tractor. ONLY BID: Windolph Tractor Co., 801 S.W. 20th Place, Portland, $2,412. Bids opened August 5.
WB 8-13. Previous report 7-23

▲TRENCHING MACHINE— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for one portable trenching machine, 650-700 lbs. BIDDERS: Waterworks Supplies Co., 4455 S.E. 24th Ave., Portland, $975; Casey Tractor & Equipment Co., 1800 S.E. Union Ave., Portland, $1,165. Bids opened August 5.
WB 8-13. Previous report 7-23

▲AIR COMPRESSOR— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for construction of one skid-mounted air compressor. ONLY BID: Contractors Equipment Corp., 2727 S.E. Union Ave., Portland, $1,597. Bids opened August 7.
WB 8-13. Previous report 7-23

●METER BOXES— Portland, Ore.

Bids will be opened 2 p. m., August 21, by purchasing agent, 208 City Hall, Portland, for furnishing concrete meter boxes for Bureau of Water Works. Bid bond or certified check 10%.
WB 8-13

★STATE HIGHWAY PROJECTS— Portland, Ore.

Eleven awards, bids on two projects rejected and bids on eight projects referred to engineer for award by Oregon State Highway Commission, Salem, for highway construction on which bids opened in Portland on August 8.

BRIDGE - BLACK BRIDGE - RICHLAND SECTION—Reconstruct 100' steel truss bridge on Baker-Homestead Highway about ¾ mi. south of Richland, Baker County; FAP No. S-11(7).

AWARD: J. O. Young & Sons, Box 52, Nampa, Idaho, $38,785.

GRADING, PAVING-GOBLE-TIDE CREEK SECTION—Grading, paving 3.74 mi. Columbia River Highway about seven mi. south of Rainier, Columbia County; FAP No. F-27(7).

Referred to engineer.

LOW BID: Rogers Construction Co., 11760 N.E. Glisan, Portland, $678,196.

ILLUMINATION INSTALLATION—Install mercury - vapor lighting units at Nesika Beach and Wedderburn connections to the Oregon Coast Highway, Gregg Creek-Wedderburn section of Oregon Coast Highway, Curry County; FAP No. F-124(10).

AWARD: Steek Electric Co., 633 S.E. Stephens, Roseburg, $5,423.

GRADING, PAVING - PRAIRIE CITY — Grading 0.17 mi. and paving 0.43 mi. on Bridge St., Grant County, a City Project.

Referred to engineer.

LOW BID: Interstate Paving Co., 715 E. 18th, The Dalles, $17,816.

PARKDALE ROCK PRODUCTION—About 11,500 c.y. crushed materials in stockpile on Mount Hood and Hood River highways, south of Hood River, Hood River County, a State Project.

All bids rejected.

ONLY BIDS: Dolan Construction Co., Box 113, Tillamook, $56,350; Rogers Construction Co., Portland, $80,500.

GRADING, PAVING-ROSS LANE-JACKSONVILLE SECTION—Grading and paving 2.35 mi. Crater Lake Highway-Jacksonville Road, Jackson County, north from Jacksonville; FAP No. S-102(4).

Referred to engineer.

LOW BID: Glen Ousley, 140 Tomahawk Lane, Eugene, $156,703.

OFFICE BUILDING — Construct 42'x63' masonry block building at Grants Pass, Josephine County, a State Project.

AWARD: Clyde Hamilton, Grants Pass, $24,762; L. H. Mallory, Salem, $24,910.

ROCK PRODUCTION — Approximately 9,000 c.y. crushed materials in stockpiles, Southern Pacific Undercrossing-Little Deschutes River section on Willamette Highway, Klamath and Lane counties; a State Project.

AWARD: J. C. Compton, U.S. National Bank Bldg., McM inville, $35,500.

HARRISBURG BRIDGE REVETMENT PROJECT—Approximately 6,700 c.y. excavation and 4,950 c.y. stone revetment material on Pacific Highway near Harrisburg, Lane County; a State Project.

AWARD: Calkins Crushing Co., Oceanlake, $21,597.

STRUCTURE, GRADING, OILING-CALAPOOYA RIVER SECTION — Construct one new bridge pier, 174' of prestressed concrete box girder superstructure and 0.19 mi. of highway roadway on McKercher Bridge of Halsey-Sweet Home Highway 1.2 mi. west of Crawfordsville, Linn County; FAP No. S-230(4).

AWARD: Tom Lillebo, Reedsport, $77,890.

NYSSA BRIDGE GRADING, PAVING—Grading, paving 0.1 mi. on Old Oregon Trail, Malheur County; FAP No. S-70(4).

AWARD: H. J. and H. W. Miller, Baker, $12,717.

OLD MALHEUR RIVER BRIDGE REPAIR —Raise and repair sunken portion of Malheur River Bridge at Ontario and rebuild and riprap road approach on Ontario-Olds Ferry Secondary Highway, Malheur County, Ontario.

All bids rejected.

ONLY BIDS: Wayne Construction Co., 3810 Stone Way, Seattle, Wash., $74,662; West Coast Steel Works, Portland, $78,806.

GRADING SALEM BY-PASS SECTION—Grading 8.25 mi. Pacific Highway near Salem, Marion County; FAIP No. I-324(15).

Referred to engineer.

LOW BID: Earl L. McNutt, 351½ E. Broadway, Eugene, $415,723.

16 STRUCTURES—Construct 16 reinforced concrete deck girder bridges, North Jefferson Junction-Santiam Junction section of Pacific Highway, Marion and Linn counties; FAIP Nos. I-176(17) & 18 and I-328(3). Alternate bids will be received for construction of the structures by the pretensioned-precast method of construction and by the conventional poured-in-place method.

AWARD: Power Sales Erecting Co. and Valley Construction Co., 6100 N.E. Columbia Blvd., Portland, $504,182.

CLAY-COLUMBIA STS. TRAFFIC INTERCHANGE, ROADSIDE IMPROVEMENT — Approximately 7,800' water pipe; 370 sprinkler head; 1.7 acre lawn and roadside seeding in Portland, Multnomah County; FAP No. U-306(14).

AWARD: Benedict Nursery Co., 735 N.E. 87th, Portland, $17,066.

HIGHLANDS UNDERCROSSING — Construct 205' reinforced concrete and steel undercrossing on Highlands Interchange section of Sunset Highway in Portland, Multnomah County; FAP No. U-318(3).

AWARD: S & D Construction Co., 4827 N.E. 104th, Portland, $79,994.

26TH AVE. STRUCTURES—Construct 166' reinforced concrete deck girder overcrossing of S.W. 26th Ave. on Pacific Highway; a 125' reinforced concrete deck girder overcrossing of S.W. 26th Ave. on Barbur Blvd.; construct roadway connections in vicinity of structure on Harbor Drive-Washington County line section of Pacific Highway and Pacific Highway West, Multnomah County; FAIP No. I-303(19).

Referred to engineer.

LOW BID: Birkemeier Construction Co., Milwaukie, $256,373.

PACIFIC HIGHWAY UNDERCROSSING—Construct 200' reinforced concrete box girder undercrossing; 495' of reinforced concrete deck girder ramps; 450' of reinforced concrete retaining wall on Barbur Blvd. and Capitol Highway on the S.W. 14th Ave.-Washington County line section of Pacific Highway, Multnomah County; FAIP Nos. I-303(16) & (17).

AWARD: Gibbons & Reed Co., Box 4989, Portland, $446,236.

IOWA STREET BRIDGE—Construct 710' reinforced concrete deck and box girder bridge over Iowa St. gulch on Harbor Drive-Washington County line section of Pacific

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Highway in Portland, Multnomah County; FAIP No. 1-303(20).
Referred to engineer.
LOW BID: Gibbons & Reed, Portland, $340,111. SP 8-13. Previous report 8-9

▲STREET IMPROVEMENT— 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 street repairs on Swan Island. BIDDERS: K. F. Jacobsen & Co., Inc., 1208 N. River, Portland, $2,504; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $3,465. Bids opened August 9.
WB 8-13. Previous report 7-24

▲STREET IMPROVEMENT—Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for improvement of S.E. 92nd Ave. from S.E. Foster to S.E. Boise St. LOW BIDS: Cascade Construction Co., Foot of S.W. Abernathy, $40,028; Parker & Fuhrman Co., 11524 S.E. Foster Road, $40,063; Ray V. Hutton, 8407 S.E. 82nd Ave., $40,155. Of Portland. Bids opened August 9.
WB 8-13. Previous report 7-25

●POWER SWEEPER— Portland, Ore.

Bids will be opened 2 p. m., August 20, by purchasing agent, 208 City Hall, Portland, for furnishing one power sweeper for Bureau of Municipal Paving Plant. Certified check or bid bond 10%. WB 8-13

●STEEL RESERVOIR— Portland, Ore.

Bids will be opened 8 p. m., August 26, by Rockwood Water District, Paul Stenzel, chairman, 18302 S.E. Stark St., Portland, for furnishing and erecting 3,000,000 gal capacity steel water reservoir at Cleveland Ave. just south of Stark St. near 13-Mile Corner. Bids will be received at office of Elden W. Carter, consulting engineer, 1207 Portland Trust Bldg., Portland, until 4 p. m., or at the water office until 8 p. m. Plans with engineer. $25 deposit. Bid bond or certified check 5%. The reservoir foundation will be furnished by the district. (Water System.)
WB 8-13. Previous report 11-10

●REINFORCED CONCRETE BRIDGE— Portland, Ore.

Bids will be opened 10 a. m., August 26, by Bureau of Public Roads, 753 Morgan Bldg., Box 3900, Portland, for construction of a 144' reinforced concrete bridge, Oregon Forest Development Road Project Willamette 1575-A, Frissel Creek Road, C. J. Buck Bridge, Willamette National Forest, Lane County, Ore. Specifications with above office.
Quantities: 180 c.y. structure excavation; 240 c.y. concrete; 63,500 lb. reinforcement steel; 291' steel bridge railing. SP 8-14

★EXTERIOR LIGHTING— Portland, Ore.

Award to Christenson Electric Co., 5 N. Mason St., Portland, $87,600, by Port of Portland, 5848 N. Lagoon Ave., Portland (P. O. Box 4099) for lighting parking lots and entrance roadway lighting at east approach to new Portland International Airport Terminal. WB 8-14. Previous report 7-23

▲WATER PIPE, FITTINGS— Rainier, Ore.

Bids received by Grace M. Brough, city recorder, City Hall, Rainier, for 4,284' of 8" asbestos-cement pressure water pipe and the necessary fittings, flexible couplings and air valves to be delivered fob stockpile. Bids opened August 5. BIDDERS: Pacific Waterworks & Supply, 0440 S.W. Porter St., Portland, $9,743; H. D. Fowler, 901 Lane, Seattle, $9,800 and $8,783; Johns-Manville Sales Corp., 777 Thomas, Seattle, $9,881; Consolidated Supply Co., Box 1771, Portland, $324 (couplings, etc., only).
SP 8-13. Previous report 7-20

▲ROAD PATCHER— Salem, Ore.

Bids received by City Council, City Hall, Salem, for a gasoline-driven roller. Bids opened July 30. LOW BIDS: Holt Equipment Co., Independence, $596; Cramer Machinery Co., 1005 S.E. Stark, Portland, $629; Nelson Equipment Co., 5251 S.E. McLoughlin Blvd., Portland, $655. SC 8-6

★STATE HIGHWAY PROJECTS— Salem, Ore.

Two awards and bids on four projects referred to engineer for consideration by Oregon State Highway Commission on highway construction for which bids were opened in Salem on July 18.
OILING—SEALES COUNTY ROAD: Involves 1.7 mi. oiling and 12.7 mi. oil sealing on 4 units of Gilliam County roads, Radar Station-Condon Junction section near Condon; FAP No. S-337(1).
AWARD: J. C. Compton Co., Box 86, McMinnville, $18,149.
SAND SHED—BURNS: Construction of 60'x95' frame sand shed, Stinkingwater Mountain sand shed, on State Highway Commission property on the Central Oregon Highway about 33 mi. east of Burns, Harney County.
AWARD: A. E. Fitzgerald, 329 Rogers, Klamath Falls, $12,976.
GRADING—PACIFIC HIGHWAY: Involves 1.95 mi. grading South Unit, SPRR Overcrossing-Santiam Junction section near Albany, Linn County; FAIP No. 1-328(3).
Referred to engineer.
LOW BID: Roy L. Houck, 1585 N. 20th, Salem, $666,289.
GRADING, PAVING — SUNSET HIGHWAY: Involves 0.60 mi. grading and paving on Highlands Interchange section, about 0.3 mi. west of Portland, Multnomah County; FAP No. U-318(3).
Referred to engineer.
LOW BID: Parker-Schram Co., 200 Builders Exchange Bldg., Portland, $500,656.
GRADING, PAVING — PACIFIC HIGHWAY: Involves .42 mi. grading and paving Interstate Bridge - Oregon Slough section north of Portland, Multnomah County; Cooperative project between State of Oregon, State of Washington and Washington Toll Bridge Authority.
Referred to engineer.
LOW BID: Warren Northwest, Inc., Box 5072, Portland, $246,503.
GRADING—SALMON RIVER HIGHWAY: Involves 2.96 mi. grading Valley Junction-Wallace Bridge Unit, Valley Junction-Sheridan section about 2 mi. west of Willamina, Polk County; FAP No. F-300(13).
Referred to engineer.
LOW BID: A. L. Harding, 541 Willamette, Eugene, $149,954.
SP 8-13. Previous report 7-19

●PAVING— Salem, Ore.

(Estimated cost $46,230)
Bids will be opened 10:30 a. m., August 26, by Marion County Court, Courthouse, Salem, for street improvements, involving 2,528' asphaltic concrete paving with curbing on Stanley Lane and Charles Ave. in the Vista Acres-Liberty area (estimated at $15,926), asphalt concrete paving and curbs on Pioneer Drive in South Pioneer Heights (estimated $8,919), 3,357' of paving and curbing on the three Four Corners streets (estimated $18,466), and paving with no curbs on 884' of Red Hill Drive in South Pioneer Heights between Peck and Hulsey streets (estimated $2,919), in Salem. Specifications with John Anderson, city engineer, City Hall, Salem.
SC 8-13

▲FILTRATION PLANT— Stayton, Ore.

Bids received by Kent Mathewson, city manager, City Hall, Stayton, for construction of a water filtration plant at Stayton Island, near Stayton, as part of the program to extend and improve the City of Salem's water supply. Specifications by Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem. Bids opened August 9. LOW BIDS: Lord Bros., 9233 N. Calvert Ave., Portland, $360,920; Salem Sand & Gravel Co., 1405 N. Front St., Salem, $363,120; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, $415,371.
SC 8-14. Previous report 8-7

●POWER LINES— The Dalles, Ore.

Bids will be opened 2:30 p. m., August 27, by Bonneville Power Administration, 1001 N.E. Llopd Blvd., Portland, for construction of generator line terminals and bus tie additions at Big Eddy Substations, three mi. east of The Dalles, Wasco County, Ore.; Inv. No. 8510. Specifications with above office.
Quantities: 265 c.y. structural excavation, 85 c.y. reinforced concrete footings; 15,300 steel erection; installation of station equipment; 80 sq. ft. concrete sidewalks; 60 c.y. crushed rock. SP 8-13

★STREET IMPROVEMENTS— The Dalles, Ore.

Award announced by City Council, City Hall, The Dalles, for street improvements at The Dalles. AWARD: United Contracting Co., 9898 N.E. Hancock Drive, Portland, $91,373. OTHER BIDS: Warren Northwest Co., Inc., Box 5072, Portland, $96,599; Morrison & Co., Box 597, Walla Walla, $100,350.
SC 8-12

RECREATIONAL DEVELOPMENT— The Dalles Dam, Ore.

Eight potential sites for recreational development along both sides of the Columbia River on the pool behind The Dalles Dam are under consideration by local officials. Sites which have been inspected include the former Seufert cannery location opposite The Dalles Dam, the Celilo area 10 mi. east of The Dalles, the proposed state park near the mouth of the Deschutes River and the Biggs area near Biggs Junction. On the Washington side the sites include a park site at Maryhill, a boat launching site at Avery, the area at Spearfish where backwaters of the dam have created a 100-acre lake, and boat launching site near the dam. The Corps of Engineers, Portland office, 628 Pittock Block, Portland, has announced its willingness to work with local groups in development planning. SC 8-7

■TERMINAL ADDITION—Tillamook, Ore.

Additional planholders announced for construction of Tillamook substation 115-kv Beaver Line terminal addition, at the junction of the Wilson River Highway (Oregon State Highway No. 6) and Evergreen Drive, which is about one mi. east of U. S. Highway 101 in Tillamook, Tillamook County, Ore.; Inv. No. 8486. Bids will be opened 2 p. m., August 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland.
Additional planholders: Midway Electric Co., 1271 Columbia Blvd., St. Helens; Mann Construction Co., P. O. Box 577, Redmond; N. P. Nelson, 400 E. 29th St., Vancouver; George S. Smith, 24216 Bothell Way, Bothell, Wash.; Wes Sundeleaf, 710 S.E. Lambert St., Portland; Harold C. Moffatt, Inc., Troutdale; J. M. Montgomery & Co., Inc., 900 S. Robertson Blvd., Los Angeles.
PB 8-13. Previous report 7-25

●SMALL BOAT BASIN— Umatilla, Ore.

Bids will be opened 1:30 p. m., P.S.T., Sept. 3, by Port of Umatilla Commission, J. H. Sturgis, manager, Post Office, Umatilla, for construction of small boat basin at Umatilla. Plans with Port Office or with N. W. Haner & Associates, consulting engineers, 220 N.W. Alder St., Portland. $10 deposit. Certified check, cashier's check or bid bond 10 . WB 8-13

WASHINGTON

MILITARY CONSTRUCTION— Washington

The House Appropriations Committee has approved $50,000,000 in funds for Washington State military construction projects during the year which started July 1. Construction was approved as follows. ARMY: Quartermaster Corps, Seattle Quartermaster Depot, $40,000; Sixth Army, Fort Lewis, $2,748,000. Tactical support facilities, Camp Hanford, $1,045,000; Fort Lewis, $811,000. NAVY: Shipyards facilities, Puget Sound Naval Shipyard, Bremerton, $25,438,000. Aviation facilities, fleet support, Whidbey Island Naval Air Station, $9,365,000. Ordnance facilities, Bangor Ammunition Depot, $316,000. AIR FORCE: Air Defense Command, Geiger Field, $2,721,000; McChord AFB, $632,000. Air Material Command, Tacoma FSS, $251,000. Strategic Air Command, Fairchild AFB, $2,028,000; Larson AFB, $13,381,000. Reserve forces construction, Paint AFB, $425,000.
SC 8-8

BOAT HAVEN DEVELOPMENT— **Anacortes, Wash.**

Road construction across the Cap Sante Waterway at Anacortes has been temporarily delayed to let the fill material dry thoroughly, according to Lloyd Foster, port manager, Anacortes. One of the new 770' moorage floats at the waterway is in place and the second one will be completed as soon as lumber for the top of the float can be obtained. This is part of the boat haven project at the Cap Sante Waterway for which two breakwaters are under construction as the major part of the work.

An award has been made by Anacortes Yacht Club to Cal Branham, 1016 23rd, Anacortes, for moving a former Coos Bay Pulp Corp. two-story, 28'x42' building to the haven site. The contractor will drive pilings in the present fill at the Cap Sante Waterway site and will build a foundation under the structure which will be located about 450' north of the present dock.

ET 8-13. Previous report 7-24 (Breakwater)

■ **WATER FILTERING PLANT, PUMPING STATION WELL—** **Anacortes, Wash.**

Additional planholders announced for construction of a 24,000,000 gal. per day central filtering plant, and a 188,000-gal. pumping station wet well on Skagit-County River Bend Road several miles northwest of Mt. Vernon. Bids will be opened 8 p. m., August 19, by City Council, Frank Kimsey, Jr., City Clerk, Anacortes. Plans with Cary & Kramer, consulting engineers, 1917 1st Ave., Seattle.

Planholders: Sound Construction & Engineering, 1300 Aloha; B. F. Turnbull, 4351 Leary Way, Everett; American Pipe & Construction, 1421 N. 135th; John Stang, 2339 Lincoln, Tacoma; Eiford Sather, Mt. Vernon; Noel Construction, 11014 Main, Bellevue; John Steinmeyer, Box 208, Bellingham; National Mechanical Contractors, Central Bldg.; Bldg.; Ray N. Erickson, Box 507, Puyallup; Sager Construction Co., 2911 Bond St., Everett; North Coast Electric, 171 Jackson St.; Mount Vernon Sand & Gravel Co., Inc., 1st and Fir, Mount Vernon; Callahan Plumbing & Heating, 3211 Broadway, Everett; Associated Sand & Gravel, 6300 Glenwood, Everett; Skagit Electric, 623 1st, Mount Vernon; B & B Electric, 7100 Rainier; Carlson Electric, 4025 Stone Way; Service Electric, 12304 32nd N.E.; Northern Electric, 910 Commercial, Anacortes. All of Seattle unless otherwise noted. PD 8-13. Previous report 8-2

★**SEWER COLLECTION SYSTEM, SEWAGE TREATMENT PLANT ADDITIONS—** **Bellevue, Wash.**

Awards announced by Bellevue Sewer District, S.E. 6th, Bellevue, for construction of a sewage collection system, pumping station, additions to sewage treatment plant under ULID No. 7, in Bellevue. Plans by R. W. Beck & Associates, consulting engineers, 1505 Tower Bldg., Seattle. AWARDS—TREATMENT PLANT: G. R. Leischner Construction Co., 1201 W. 92nd, Seattle, $141,500 (Sched. B). COLLECTION SYSTEM: Ace Construction Co., 7516 Roosevelt Way, Seattle, $99,887 (Sched. A, collection lines in Ashwood area); National Construction Co., 153 S. 160th, Seattle, $203,018 (Sched. B, trunks for industrial area near Midlands), $176,255 (Sched. C, lines south end); Harold Kaeser Co., 3629 34th Ave. S., Seattle, $50,638 (Sched. D, pumping station near 108th S.E.). PD 8-9. Previous report 7-11

SEAL COATING ROADS— **Bellingham, Wash.**

(Estimated cost $22,700)

Road project approved by Whatcom County Commissioners, Courthouse, Bellingham, involving seal coat treatment of 22¾ mi. various county roads. Sections of roadway to be oiled include Silver Lake, Halverstick, Stickney-Island, Hampton, Goodwin and Telegraph roads. ET 8-7

DISTRIBUTION SYSTEM, SEWERS— **Bellingham, Wash.**

(Estimated cost $1,500,000 distribution, $500,000 sewers)

An ordinance has been signed by the Mayor, City Hall, Bellingham, authorizing work on the water distribution system and sewer trunk and interceptor construction for the city of Bellingham. Work included is as follows. DISTRIBUTION SYSTEM: Changes at Whatcom Falls Creek to provide another 48" outlet; a 36" main along Whatcom Creek; a 36" main from the screenhouse to Alabama St.; a 25 main along Alabama to James St.; a 20 main from Illinois and James streets north of McLeod Road; 16" and 12" feeder lines on McLeod Road. Construction of a 300,000-gallon reservoir south of the city limits on Yew St. Road; an 8" main from Dakin St. to Sunset Drive; a 12" main along Electric Ave., and an 8" main to Toledo St. Construction of a 500,000-gallon high level reservoir north of Lake Padden; Lake Padden filter plant with clearwell water storage; connecting lines in Hawthorne and Middlefield Road area, and miscellaneous connections. SEWER WORK: Hill section storm sewer and boulevard interceptor; Birchwood District sanitary sewer and interceptor; Illinois St. storm sewer; Lincoln-Lakeway-Consolidation Ave. sanitary trunk sewer; College-21st St. trunk sewer. ET 8-13

■ **ROADS, POWER LINE—** **Benton County, Wash.**

Planholders announced for approximately 5.6 mi. of 12' wide construction access roads and the McNary-Richland 115 kv line No. 1, McNary-Pasco, Mile 19-Highlands section, Benton County, Wash.; Inv. No. 8500. Bid will be opened 3 p.m., P.S.T., August 26, by Bonneville Power Administraiton, 1001 N.E. Lloyd Blvd., Portland.

Planholders: R. C. Hughes Co., 2105 N. Airport Way, Spokane; Power City Electric Co., N. 920 Howard St., Spokane; John M. King Co., 1601 Taylor Way, Tacoma; Duke's Electric, Inc., Bldg. 35, Pasco Airport, Pasco; L. W. Vail Co., Inc., P. O. Box 847, Pasco; Fishback & Moore, Inc., 3201 Fremont Ave., Seattle; Collins Electrical Co., Inc., 611 W. Fremont St., Stockton, Calif.; Tyee Construction Co., 1901 23rd Ave. S., Seattle; Nichols Construction Co., P. O. Box 336, Grandview; Nesheim Construction Co., 6714 36th Ave. S.W., Seattle.

WB 8-13. Previous report 8-3

★**STEEL PIPE—** **Bremerton, Wash.**

Award announced by E. H. T. McGowan, city clerk, City Hall, Bremerton, for supplying the city with 5,000' of 2" galvanized steel pipe. Bids opened August 7. AWARD: Pacific Water Works Supply Co., 2900 1st Ave., Seattle, $2,350. OTHER BIDS: Rosen Supply Co., 2419 S. Chandler, Tacoma, $2,397; Seattle Pipe Supply Co., 490 1st Ave. S., $2,427; Crane Co., 419 2nd Ave. S., Seattle, $2,433. SP 8-10. Previous report 7-23

DIVERSION DAM— **Carson, Wash.**

Bids rejected as too high by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., Portland, for construction of the Trout Creek diversion dam, about two mi. northwest of Hemlock Ranger Station on Trout Creek, Skamania County, and Gifford Pinchot National Forest, about 13 mi. from Carson. WB 8-10. Previous report 8-7

▲**CONCRETE CULVERT—** **Chehalis, Wash.**

Bids received by Margaret McChord, city clerk, City Hall, Chehalis, for construction of a reinforced concrete box culvert in Chehalis. Bids opened August 5. ONLY BIDS: John E. Schwarz, Route 4, Chehalis, $5,396; Russ Davis Concrete Construction Co., 3314 Mt. Tacoma Drive, Tacoma, $5,712.

SP 8-9. Previous report 7-24

●**SURGE TANK PAINTING—** **Chelan Falls, Wash.**

Bids will be opened 1:30 p. m., September 6, by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave. (Box 1231), Wenatchee, for exterior painting of surge tank at the Lake Chelan hydro plant, Chelan Falls. Specifications with above office. SC 8-13

TAINTER GATE, SEAL MODIFICATION— **Chief Joseph Dam, Wash.**

Bids will be opened about September 4 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for installation of lubrication piping to 17 tainer gates, removal of hangar supports from 19 gates, straightening out lower edge of two gates and modification to gate seal retainers at Chief Joseph Dam, Columbia River, Wash.; CIVENG-45-108-57-6. Specifications with above office. Government will furnish and install stoplogs. SP 8-13

●**PAVING, BUMPER RAIL—** **Ellensburg, Wash.**

Bids to be opened 2 p. m., August 20, by supervisor of state purchasing, Box 1164, Olympia, for installing asphaltic concrete paving and bumper rails at Central Washington College, Ellensburg. Plans with purchasing office, Olympia. DC 8-13

●**COVERED PLAY AREA—** **Enumclaw, Wash.**

Bids to be opened 5 p. m., August 19, by Enumclaw School District No. 216, 2222 Porter, Enumclaw, for construction of a covered play area and sidewalks at the J. J. Smith Elementary School, Griffin and Fell streets, Enumclaw. Plans with William Aitken, architect, 408 Marion, Seattle. Plans call for 121'x60' play area, blacktop surfacing, glued laminated beams, 2x16 sheet deck; 12" concrete block wall. DM 8-13

●**EARTHWORK, LINING, STRUCTURES—** **Ephrata, Wash.**

Bid opening extended from August 13 to 10 a.m., August 20, by Bureau of Reclamation, Box 368, Ephrata, for earthwork, concrete lining and structures, Block 401 laterals and wasteways, East Low Canal laterals, about 10 mi. north of Moses Lake, Grant County, Wash.; Spec. No. 117C-454.

SP 8-14. Previous report 7-11

▲**DRAIN SYSTEM—** **Ephrata, Wash.**

Bids received by Bureau of Reclamation, Box 368, Ephrata, for construction of DE79 drain system in Block 46, Columbia Basin Project, Adams County, about seven mi. east of Othello; Spec. No. 117C-450. Bids opened August 13. LOW BIDS: Lewis Construction Co. and F. L. Boutelle, Box 696, Kennewick, $74,198; Lewis Hopkins Co., 221 S. 3rd St., Pasco, $75,543; Syblon-Reid Con-

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struction Co., Box 587, Warden, $76,347. Engineer's estimate, $88,587.
SP 8-14. Previous report 7-10

■ **CONCRETE BRIDGE— Everett, Wash.**

Planholders announced for construction of a two-lane pile and frame trestle, precast deck bridge structure with three spans of pre-stressed concrete girdehs over the track of the Great Northern Railway near the northern section of Everett, together with construction of light bituminous surface treatment and type I-1 asphaltic concrete approach roadways. Bids will be opened 10 a. m., August 20, by City Council, City Hall, Everett.

Planholders: Graystone of Everett, Inc., 2941 Chestnut, Everett; American Pile Driving Co., Pier 2, Everett; Larsen Construction Co., 468 Colman Bldg., Seattle; Shaffer Construction Co., Box 804, Everett; Louis E. Herich Co., Box 868, Port Angeles; Quigg Bros.-McDonald, Inc., 1500 Riverside Drive, Hoquiam; Newland Construction Co., Box 230, Edmonds; Associated Sand & Gravel Co., 6300 Glenwood Ave., Everett; H. O. Seiffert Co., 2400 Hewitt Ave., Everett; Matheson & Villella, 3612 Norton, Everett; Soule Steel Co., Box 3865, Terminal Annex, Seattle. SP 8-9. Previous report 7-30

● **SEWERS— Everett, Wash.**

Bids will be opened 8 p. m., September 9, by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for construction of a sewer line from the new junior high school to connect with city sewer at Madison School. Specifications with above office. HH 8-9

● **FENCING— Everett, Wash.**

Bids will be opened 8 p. m., August 19, by Everett School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett, for installation of 2,278' cyclone fencing at five elementary schools in Everett. Specifications with above office. SP 8-9

▲ **STEEL PIPE Everett, Wash.**

Bids received by John L. Sugars, city clerk, City Hall, Everett, for furnishing 14,080' of large diameter plate steel pipe and other materials to be used for construction of a water supply line from the the Lake Chaplin reservoir to Everett. Specifications by John Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland. Bids opened August 12. BIDDERS: Beall Pipe & Tank Corp., 12005 N. Burgard, Portland, Ore., $393,038; American Pipe & Construction Co., 1421 N. 135th Place, $423,604; Hydraulic Supply Manufacturing Co., 7500 8th Ave. S., $427,084; United Concrete Pipe Corp., Box 467, Auburn, $432,474; Consolidated Western Steel, Exchange Bldg., $441,674; Kaiser Steel Corp., Hoge Bldg., $512,410; Garrett & Shafer Engineering Works, 322 1st Ave. S., $545,800. All of Seattle unless noted.
HH 8-13. Previous report 8-9

★ **WATER SYSTEM— Everett, Wash.**

Award to Frank Coluccio, 7778 Seward Park Ave., Seattle, $12,137 (LID 11), $5,233, (LID 12), by Silver Lake Water District, Route 4, Box 485, Everett, for construction of a water distribution system in LID Nos. 11 and 12. Plans by R. E. Wolff, district engineer, 1506 Smith Tower, Seattle.
PD 8-14. Previous report 8-9

● **CHANNEL DREDGING— Everett Harbor, Snohomish River, Wash.**

Bids will be opened 2 p. m., August 27, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for channel dredging in Everett Harbor and Snohomish River; CIVENG-45-108-58-1. Specifications with above office. Bid bond 20%.

Project involves dredging and disposal of 585,000 c.y. as follows: existing 1200'x700' settling basin west of the Port Commission will at 14th St., to be dredged to -20 MLLW; south of basin to a point opposite 16th St. the existing channel to be widened to 425' and dredged to -15 MLLW; from a point opposite 18th St. south of the lower harbor (Port Gardner), the existing channel to be widened from 100' to 150' and dredged to -15 MLLW/ SP 8-9. Previous report 8-7

▲ **ASPHALTIC CONCRETE PAVING— Fort Lewis, Wash.**

J. D. Shotwell, Inc., 3113 S. Pine, Tacoma, submitted the only bid on August 9, in the amount of $18,927, to Department of the Army, Purchasing and Contracting Office, Fort Lewis, for asphaltic concrete paving of the reception area at North Fort Lewis; AVI-45-016-58-17.
SP 8-10. Previous report 7-31

PARKING LOT PAVING—Fort Lewis, Wash.

Bid opening of August 15 has been postponed until further notice by Department of the Army, Fort Lewis, for asphaltic concrete paving of parking lots at Fort Lewis; AVI-45-016-58-19.
SP 8-13. Previous report 8-6

PARKING AREA, DRIVEWAY— Fort Lewis, Wash.

Bid opening of August 16 has been postponed until further notice by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for paving of parking area and driveway at Bldg. No. 1252, Fort Lewis; AVI-45-016-58-22.
SP 8-13. Previous report 8-7

MOCK-UPS— Fort Lewis, Wash.

Bid opening of August 16 has been postponed until further notice by Department of the Army, Fort Lewis, for construction of two mock-ups for air movement training at Fort Lewis; AVI-45-016-58-20.
SP 8-13. Previous report 8-7

ATHLETIC COURTS— Hanford, Wash.

Bids rejected and will be readvertised by Corps of Engineers, Walla Walla district office, Bldg. 602, City-County Airport, Walla Walla, for construction of athletic courts at Camp Hanford; ENG-45-164-58-4.
SP 8-13. Previous report 8-2

★ **DRAINAGE SYSTEM— Longview, Wash.**

Award to Longview Plumbing and Heating Co., 834 Maple St., Longview, $29,560, by Cowlitz County School District No. 122, Corrine Miles, clerk, Longview, for installation of a drainage system in the school district. Specifications by McGuire & Muri, architects, 231 Broadway, Tacoma.
RM 8-14. Previous report 8-6

● **GARBAGE COLLECTION UNIT— Marysville, Wash.**

Bids will be opened 8 p. m., August 19, by Amelie Dockendorf, town clerk, Town Hall, Marysville, for furnishing a new or used 16 c.y. minimum capacity closed compaction type garbage collection unit, mechanically or hydraulically operated, and truck-mounted. Specifications with above office.
SC 8-10

● **SUBSTATION SITE GRADING— Moses Lake, Wash.**

Bids will be opened 2 p. m., August 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for grading Potholes Substation site, about six mi. west of Moses Lake, Grant County, Wash.; Inv. No. 8511. Specifications with above office. $5 deposit. Bid bond 25%.

Quantities: 11,700 c.y. excavating, grading; 3,200 c.y. select borrow; 130 c.y. topsoil; 36' corrugated metal pipe culvert. SP 8-14

● **STATE HIGHWAY PROJECTS— Olympia, Wash.**

Bids to be opened 10 a. m., August 27, by Washington State Highway Commissioner, Transportation Bldg., Olympia, on 16 highway construction projects. Plans with above office. Certified check, cashier's check or bid bond 5%.

SSH 1-B OVERCROSSING, APPROACHES —Clearing, draining, grading, asphaltic concrete paving, illumination system, two reinforced concrete box girder bridges on 0.284 mi. PSH No. 1, Whatcom County; FAP No. I-001-5(17).

Quantities: 77,580 c.y. common excavation; 21,400 ton select road borrow; 1,365 c.y. sand borrow; 2,650 ton crushed stone surfacing; 33 ton asphalt cement; 250 c.y. crushed cover stone; 3,710 ton asphaltic concrete; 663' cement concrete gutter; 2,610' cement concrete curb and gutter; 3,710' precast traffic curb; 1,283' concrete pipe; 413' corrugated metal pipe; 568' corrugated metal structural plate pipe rach; 765' iron pipe; 130 sq. yd. cement concrete sidewalk; 1,201 c.y. concrete; 380,815 lb. steel reinforcing bars; 654' bridge rail; 4,000' concrete pile extensions.

MABTON-PROSSER PAVING — Clearing, draining, grading, surfacing, light bituminous surface treatment, asphaltic concrete paving, two illumination systems on 12.761 mi. SSH No. 3-A, Yakima and Benton counties; FAP No. F-048-1(1).

Quantities: 131,320 c.y. excavation; 52,550 unit overhaul; 43,420 ton crushed stone surfacing; 468 ton asphalt cement; 15,740 ton asphaltic concrete; 650 c.y. mineral aggregate; 22 c.y. concrete; 3,036' concrete pipe; 69' corrugated metal pipe arch; 176' welded steel pipe.

EAST LAKE SAMMAMISH PAVING — Clearing, draining, grading, surfacing, cement concrete paving on 2.187 mi. King County road, FAS, FAS No. S-0370(2).

Quantities: 41,360 c.y. common excavation; 1,400 c.y. excavation of unsuitable material; 23,750 ton select road borrow; 3,820 ton crushed stone surfacing; 100 ton asphaltic concrete; 28,573 sq. yd. cement concrete pavement; 12,696 lb. pavement reinforcement; 315 c.y. concrete; 3,340 lb. steel reinforcing bars; 1,218' concrete pipe; 124' corrugated structural plate pipe; 1,356' reinforced concrete cribbing headers, stretchers; 98 guide posts.

BOOKER-SCOOTENAY BITUMINOUS SURFACING—Clearing, draining, grading, light bituminous surface treatment on 6.615 mi. Adams and Franklin county roads; FAS No. S-0973(1).

Quantities: 122,920 c.y. common excavation, borrow; 41,440 ton crushed stone surfacing; 22 ton asphalt cement; 1,970 c.y. crushed cover stone; 72 c.y. mortar rubble masonry; 1,201' concrete pipe; 100' corrugated structural plate pipe.

THIRD CROSSING SATUS CREEK NORTH—Clearing, draining, grading, surfacing, stokpiling maintenance rocc, sand and mineral aggregates, light bituminous surface treatment on 2.831 mi. PSH No. 8, Yakima County; a State Project.

Quantities: 72,580 c.y. common excavation, borrow; 30,410 ton crushed stone surfacing et al; 107 ton asphalt cement; 32 c.y. concrete; 3,730 lb. steel reinforcing bars; 525' concrete pipe.

FALLS CREEK BRIDGE, APPROACHES—Timber bridge and reinforced concrete cribbing on 0.167 mi. SSH No. 9-A, Clallam County; a State Project.

Quantities: 5,950 c.y. select borrow; 160 c.y. crushed stone surfacing; 45 c.y. concrete; 7,630 lb. steel reinforcing bars; 21,344' reinforced concrete cribbing headers, stretchers; 1,250' treated timber piling.

PAVING IN SUNNYSIDE—Grading, surfacing cement treated base, asphaltic concrete paving 0.789 mi. PSH No. 3, Yakima County; a State Project.

Quantities: 2,400 c.y. common excavation; 3,150 ton crushed stone surfacing; 2,930 ton asphaltic concrete; 14 ton asphaltic concrete; 14 ton asphalt cement; 662 bbl. portland cement; 3,500 ton CTB aggregate.

SILVERDALE, PAVING—Draining, grading, plantmix bituminous paving on 0.581 mi. PSH No. 21, Kitsap County; a State Project.

Quantities: 2,510 c.y. excavation; 3,435 ton crushed stone surfacing; 20 ton asphalt cement; 130 c.y. mineral aggregate; 3,330 ton bituminous plantmix; 510' precast traffic curb; 87' concrete pipe; 20' corrugated structural plate pipe; 25' beam guard rail.

12TH STREET OFF-CONNECTION IN KELSO, PAVING—Draining, grading, surfacing, asphaltic concrete paving, illumination system, PSH No. 1, Cowlitz County; a State Project.

Quantities: 10,570 c.y. excavation; 760 c.y. select borrow; 360 ton asphaltic concrete; 610' cement concrete curb, gutter; 850' mountable cement concrete curb; 153' concrete pipe; 384' corrugated metal pipe.

TOKUL CREEK, PAVING—Asphaltic concrete paving on 2.506 mi. PSH No. 2, King County; a State Project.

Quantities: 750 c.y. crushed stone surfac-

ing; 4,765 ton asphaltic concrete; 23 ton asphalt cement.

OLALLIE CREEK - SUMMIT, PAVING—Asphaltic concrete paving on 3.701 mi. PSH No. 2, King County; a State Project.

Quantities: 400 c.y. crushed stone surfacing; 1,190 ton asphaltic concrete; 5,530' asphaltic concrete curb; 362' corrugated metal pipe.

WOODINVILLE - SNOHOMISH COUNTY LINE, SURFACING—Non-skid seal treatment and light bituminous surface treatment on 27.93 mi. SSH Nos. 1-A, 1-D, in King, Snohomish, Skagit and Island counties; a State Project.

Quantities: 838 ton asphalt cement; 9,400 c.y. mineral aggregated.

TIMBER BRIDGES—Three timber bridges, Nos. 5-EF/107, 108, 109 on 0.050 mi. PSH No. 5, Pierce County, a State Project.

Quantities 75 ton bituminous mix; 29 c.y. concrete.

E. BOUNDARY INDIAN RESERVATION-SEKIU RICER, GRADING—Draining, grading 0.376 mi. SSH No. 9-A, Clallam County, a State Project.

Quantities: 4,800 c.y. excavation; 21' concrete pipe; 4,600 c.y. loose riprap; 70 c.y. hand place riprap.

BRIDGE FENDERS—Replace, reconstruct fenders on Tacoma Narrows Bridge, PSH No. 14, Pierce County, a State Project, involving about 145 MBM timber, lumber and 2,500 lb. fender hardware.

ILLUMINATION SYSTEM—Install system on PSH No. 10, Knapps Hill Tunnel, Chelan County, a State Project. DM 8-9

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, for a highway construction project on which bids opened July 30.

GRADING, SURFACING, BRIDGE—RAINY CREEK BRIDGE APPROACHES: Clearing, draining, grading, surfacing with light bituminous surface treatment and constructing a reinforced concrete slab bridge on 0.232 mi. PSH No. 5 in Lewis County; a State Project.

AWARD: Excavators, Inc., 5756 29th Ave. N.E., Seattle, $48,822.

DE 8-14. Previous report 8-1

▲SHORE FACILITIES IMPROVEMENT— Olympia, Wash.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for miscellaneous improvements to shore facilities, Olympia Reserve Fleet, Wash.; CIVENG-45-108-58-3. Bids opened August 12. LOW BIDS: Pat Marker & Co., 2217 N. 147th, Seattle, $1,973; Patnude & Johnson, 921 S. Central, Olympia, $1,998; Russ Davis Concrete Construction Co., 3314 Mount Tacoma Drive, Tacoma, $2,184. Government estimate, $2,110. SP 8-14. Previous report 7-19

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Following are low bids received by Washington State Highway Commission Olympia, for highway construction on which bids opened August 13.

SATUS PASS VICINITY, PAVING—Clearing, draining, grading, cement treated base, asphaltic concrete paving, stockpiling maintenance rock, crushed stone surfacing, ballast and mineral aggregates on 1.493 mi. PSH No. 8, Klickitat County; FAP No. F-014-3(5).

LOW BIDS: Babler Bros., Inc., 4617 S.E. Milwaukie Ave., Portland, $497,135; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland, $500,566; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata, $510,836.

S.E. 400TH ST., PAVING—Clearing, draining, grading, asphaltic concrete paving 5.754 mi. King County road; FASP No. S-0919(1).

LOW BIDS: Pacific Sand & Gravel Co., Box 628, Centralia, $244,294; Lige Dickson, 3315 S. Pine, Tacoma, $287,783; Erickson Paving Co., 14446 Sunset Highway, Bellevue, $288,769.

THRALL - BADGER POCKET ROADS - SURFACING—Grading, light bituminous surface treatment on 2.763 mi. Kittitas County roads; FAS Nos. S-0430(1), S-0429(1).

LOW BIDS: D. A. Sullivan, Box 37, Parkwater Station, Spokane, $104,914; J. Arlee Bryant, Inc., and Clarence Braden, 3716 Skyview Drive, Spokane, $105,721; C & E Construction Co., Inc., Box 1545, Yakima, $119,183.

EAST SOUND-OLGA ROAD-SURFACING—Clearing, draining, grading, surfacing with select roadway borrow 0.914 mi. San Juan County road; FAS No. S-0713(4).

LOW BID: J. M. Bruch Co., Route 3, Box 504, Port Angeles, $8,502. ONLY OTHER BID: Nelson Construction Co., 14330 30th Ave. N.E., Seattle, $14,222.

SLATER ROAD TO JCT PSH No. 1—PAVING, BRIDGE—Clearing, draining, grading, plantmix bituminus surfacing, reinforced concrete flat slab bridge on 3.556 mi. SSH No. 1-Z, Whatcom County; a State Project.

LOW BIDS: Walter Construction Co., Inc., 1840 State St., Bellingham, $341,676; B. P. Gerard, 5526 160th S.W., Edmonds, $366,173; J. P. Surace Construction Co., 3238 Seaview Ave., Seattle, $374,066.

PRIEST RAPIDS DAM TO JCT SSH No. 11-A, SURFACING—Draining, grading, surfacing, light bituminous surface treatment 9.009 mi. SSH No. 7-C, Grant County; a State Project.

LOW BIDS: D. A. Sullivan, Spokane, $167,259; C. J. Painter, 947 W. Court, Pasco, $188,638; Materne Bros., Inc., Box 752, Garland Station, Spokane, $189,832.

TERRY AVE. TO EAST LYNN IN SEATTLE-PAVING—Remove street car rails, construct cement concrete base, pave with asphaltic concrete 2.187 mi. SSH No. 1-J, King County; a State Project.

LOW BIDS: MacRae Bros., 5900 2nd Ave. S., Seattle, $206,109; Fiorito Bros., 1100 Leary Way, Seattle, $225,579; Argentier & Colarossi, 1815 Jackson, Seattle, $243,370.

16TH AVE. SOUTH TO SPOKANE ST. IN SEATTLE - PAVING — Remove street car tracks, pave with asphaltic concrete 2.868 mi. PSH No. 1, King County; a State Project.

LOW BID: R. L. Moss, Box 37, Zenith, $154,978. ONLY OTHER BID: Northwest Construction Co., 3950 6th N.W., Seattle, $322,375.

PENITENTIARY VICINITY - PAVING — Draining, grading, surfacing, light bituminous surface treatment, asphaltic concrete paving 6.007 mi. State Highways Nos. 3-E and 3, Walla Walla County; a State Project.

LOW BIDS: Morrison & Co., Box 597, Walla Walla, $114,020; L. W. Vail Co., 1948 N. 4th St., Pasco, $128,924; United Paving Co., Route 4, Box 150, Spokane, $139,774.

DE 8-14. Previous report 8-6

★SNOW PLOW— Olympia, Wash.

Award to Clyde Equipment Co., 3410 1st St., Seattle, $14,690, by J. Holz, acting supervisor of purchasing, Box 1164, Olimpia, for furnishing one TU-3 snow plow.

DE 8-14. Previous report 7-6

●WATER DISTRIBUTION LINES— Pasco, Wash.

Bids to be opened 8 p.m., P.S.T., August 27, by City Council, City Hall, Pasco, for construction of water distribution lines. Plans with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $25 deposit. Certified check, cashier's check or bid bond 5%. Quantities: 10,580' trench excavation; 6,860' of 20" cast iron mechanical joint pipe; 1,950' of 16" same; fittings, valves, valve boxes, fire hydrants; railroad undercrossings; removal of existing pipe; backfilling, pavement removal and replacement. DC 8-13

●SEWER SYSTEM (PHASE 1)— Pasco, Wash.

(Estimated cost $245,000)

Bids will be opened September 9 by City Council, City Hall, Pasco, for construction of a pump station (Sched. P) and installation of sanitary sewers (Sched. S), the first phase of a long range program for storm and sanitary sewer system in LID No. 63, Pasco. Specifications with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $35 deposit. Bid bond 5%.

SCHED. P: Reinforced concrete construction; two 800 gpm pumps; 16' diameter; 27' deep. SCHED. S: 32,800' of 8", 325' of 10", 1,900' of 12" concrete or clay pipe; 500' of 10" asbestos-cement or cast iron pipe; excavation varying from 0'-6' deep to 22'-24', majority 0'-6' to 10'-12'; 134 manholes; 18,000 sq. yd. bituminous pavement replacement. SP 8-14. Previous report 8-1

▲TRANSMISSION LINE— Port Townsend, Wash.

Bids received by City Council, City Hall, Port Townsend, for work on a portion of the city's new water transmission line near Lake Leland, involving trenching and laying 6,880' of 30" and 7,800' of 28" steel pipe. TWO LOW BIDS: Cotton Engineering & Shipbuilding Corp., 120 Madison, Port Townsend, $30,062; J. P. Kvinsland, Hastings and Gees, Port Townsend, $55,573. SC 8-14

●WATERMAINS— Pullman, Wash.

Bids to be opened 7:30 p.m., August 20 by City Council, M. E. Mays, city clerk, City Hall, Pullman, for furnishing and installing 5,494' of cast iron water pipe on various city streets. Plans with city engineer. Certified check, cashier's check or bid bond 5%.

Quantities: 2,567 c.y. earth excavation; 4,764' of 6" and 730' of 8" mechanical joint cast iron water pipe, related fittings; 20, 6" and one 8" gate valves mechanical joint; eight 6" hydrants; 648 ton crushed stone trench backfill. DC 8-10

PUMPING UNITS— Radar Pumping Plant, Wash.

Bids will be called about August 30 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for five motor-driven, horizontal, centrifugal-type pumping units, three units each with a capacity of 37 cfs at a total head of 275' and two units each with a capacity of 17.5 cfs at a total head of 119', for Radar Pumping Plant, Columbia Basin Project, Wash. SP 8-7

▲WATERMAIN— Renton, Wash.

Bids received by King County Water District No. 92, for furnishing and installing 35,600' of steel pipe, hydrant assemblies, excavation in ULID No. 1, at Hazelwood near Renton. Bids were opened August 12 in the office of Gardner & Hitchings, consulting engineers, 613 Arctic Bldg., Seattle. The following bids combined units No. 1 and No. 2, and are approximate figures. Five bids were presented, ranging from $130,000 to $160,000. LOW BID: Argentieri & Colarossi, 1815 Jackson, Seattle, $130,000. 2ND LOW: Thorburn & Logozo, 4608 36th Ave. S.W., Seattle, $140,000.

PD 8-14. Previous report 8-8

★ELECTRIC FACILITIES— Renton, Wash.

Award to Industrial Electric Co., 1828 Yale, Seattle, $55,795, by Boeing Airplane Co., Box 707, Renton, for electric facilities for the spotwelding shop at the Boeing plant in Renton. PD 8-14. Previous report 8-7

▲TAPPING SLEEVES— Seattle, Wash.

Western Utilities Supply Co., 5409 Ohio, Seattle, submitted the only bid August 7, in the amount of $1,346, to Paul R. Hendricks, purchasing agent, 511 County-City Bldg., Seattle, for furnishing tapping sleeves and valves. PD 8-9. Previous report 7-19

★SCARIFIER TOOTH TIPS—Seattle, Wash.

Award to only bidder Totem Equipment Co., 3706 Airport Way, Seattle, $2,560, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 2,000 H & No. 1 scarifier tooth tips.

PD 8-9. Previous report 7-19

★METER PARTS— Seattle, Wash.

Award to Worthington Gamon Meter Division, 2616 Western Ave., Seattle, $1,373, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing parts for watch dog meters.

PD 8-9. Previous report 7-17

SEWAGE DISPOSAL— Seattle, Wash.

An increase of funds from $6,500,000 to $11,000,000 for sewage disposal has been authorized in an ordinance passed by the City Council, Seattle. A report with recommendations on the sewage disposal program

will be made in March by Brown & Caldwell, San Francisco consultants. In the meantime the city is proceeding with some projects to provide immediate relief. DM 8-9

EMPIRE WAY PARKWAY— Seattle, Wash.

A resolution authorizing formal application to the General Services Administration for 13 acres of land at the Stadium Homes project on Empire Way from Bayview to Atlantic, has been adopted by the City Council. This action furthers plans for development of a five-mile parkway along Empire Way. DM 8-9

★PIER REMOVAL, DREDGING— Seattle, Wash.

Award made by Port of Seattle Commission, 406 Bell St. Terminal, Seattle, for removal of pier and dredging at Pier 48, Main St. Terminal, Seattle. Bids opened August 8.

AWARD: Larsen Construction Co., Colman Bldg., Seattle, $37,658. OTHER BIDS: General Construction Co., 3840 Iowa, Seattle, $38,740; Manson Construction & Engineering Co., 5209 E. Marginal Way, Seattle, $40,800; American Pile Driving Co., Inc., Pier 2, Everett, $47,250. PD 8-9. Previous report 8-2

● WATERMAINS— Seattle, Wash.

Bids will be opened 2 p. m., August 21, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing watermain on 3rd Ave. S.W. et al, LID No. 6155, and on E. 125th et al, Ord. 86266. Specifications available after August 12 with city engineer, 404 County-City Bldg., Seattle.

Quantities—3RD AVE. S.W.: 4,130′ of 6" to 12" cast iron water pipe; excavation, backfill, miscellaneous appurtenances. E. 125TH: 7,800′ excavation, preparation, backfill; 7,800′ of 4" to 16" cast iron water pipe main; 33 gate valves, 4 large (16") gate valves; miscellaneous appurtenances. Separate contracts for each location. PD 8-9

★HERSEY DETECTOR CHECKS— Seattle, Wash.

Award to only bidder Hersey Mfg. Co., 1231 N.W. Hoyt, Portland, $2,596, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing two detector checks.

PD 8-9. Previous report 7-19

▲SCHOOL SITE WORK— Seattle, Wash.

Bids received by Highline School District No. 401, 253 S. 152nd St., Seattle, for grading two football fields, moving catch basins, constructing concrete track curbings and grading outdoor physical education areas on Evergreen-Cascade school site, 830 S.W. 116th St., Seattle. Bids opened August 9.

BIDS: B. F. Turnbull, Inc., 4351 Leary Way, $17,800 (A), no bid (B); Norge Construction Co., 5008 Admiral Way, $18,712, no bid; John Patricelli, 5134 32nd Ave. S., Seattle, $22,800, $20,500; Ness Construction Co., 1125 W. 53rd, $24,400, no bid; Bass Construction Co., 12526 Aurora Ave., no bid, $17,296. PD 8-10. Previous report 8-2

▲SEWERS— Seattle, Wash.

Bids received by Val Vue Sewer District, King County, for construction of about 18,000′ of gravity sewer, 6" to 12", together with manholes, wyes, side sewers and appurtenances. Plans by Howard T. Harstad, consulting engineers, 1000 Lenora St., Seattle. Bids opened August 9.

LOW BIDS: Harold Kaeser Co., 3629 34th S., $203,351; Frank Coluccio Construction Co., Inc., 7778 Seward Park, $251,022; Lario Libri Construction Co., 5960 Empire Way, $284,296. PD 8-10. Previous report 8-3

▲CEARING, GRADING, BITUMINOUS SURFACING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading, surfacing with light bituminous surface treatment one mi. on N.E. 8th St. (288th Ave. N.E. to 244th Ave. N.E.), King County. Bids opened August 12. LOW BID: Thomas Scalzo, 3211 Airport Way, $31,981 OTHER BIDS: L. R. Bass, 3802 33rd Ave. W., $32,099; Excavators, Inc., 5756 29th Ave. N.E., $32,972; Anderson & Akers, 4756 Fauntleroy, $34,938; All City Excavating Co., 8114 9th Ave. S.W., $39,549. All of Seattle. PD 8-13. Previous report 8-7

● STEEL PIPE SPECIALS— Seattle, Wash.

Bids will be opened 10 a.m., August 22, by Paul R. Hendricks, supervisor of purchasing, 501 County-City Bldg., Seattle, for steel pipe specials. Specifications with above office. PD 8-13

■ BITUMINOUS SURFACING— Seattle, Wash.

Planholders announced for clearing, draining, grading, light bituminous surfacing on 0.78 mi. of E. 197th St. and 0.72 mi. of 47th Ave. N.E., King County. Bids will be opened 9:30 a. m., August 19, by King County Commissioners, 402 County-City Bldg., Seattle. Plans with D. L. Evans, county road engineer, 905 County-City Bldg., Seattle.

Planholders: Hydraulic Supply Mfg Co., 7500 8th Ave. S., Seattle; Kent & Tucker, 1431 134th Ave. N.E., Bellevue; Bass Construction Co., 12526 Aurora, Seattle.

PD 8-14. Previous report 8-3

■ OVERPASS STRUCTURE— Seattle, Wash.

Planholders announced for construction of an overpass structure across the Northern Pacific Railway and the clearing, draining, grading, crushed stone surfacing on 1.6 mi. of N.E. 116th (S.S.H. No. 2-A to 124th N.E.), King County. Bids will be opened 9:30 a.m., August 19, by King County Commissioners, 402 County-City Bldg., Seattle. Plans with D. L. Evans, county road engineer, 905 County-City Bldg., Seattle.

Planholders: Hydraulic Supply Mfg. Co., 7500 8th Ave. S.; Pacific Car & Foundry, 4th and Park, Renton; Bethlehem Pacific Steel Co., 3631 E. Marginal Way; Bass Construction, 12526 Aurora Ave. All of Seattle except as noted. PWD 8-14. Previous report 8-3

● PIPE, HYDRANTS— Seattle, Wash.

Bids to be opened 3 p. m., August 28, by Port of Tacoma, Archie E. Blair, secretary, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, for furnishing, installing or furnishing and installing 3,040′ of 24" and 1,950′ of 36" IDx ⅜" steel pipe; 16 fire hydrants; three 16" ball valves. Plans with above office. $5 deposit. Certified check 5%. DC 8-14

▲NETWORK TRANSFORMERS— Seattle, Wash.

Bids received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 10 of 500-kva and 10 of 750-kva network transformers. Bids opened August 13., LOW BID: Ruralite Services, Inc., 601 Royal Bldg., Portland, $62,850 (500-kva), $83,200 (750-kva). OTHER LOW BIDS: Maydwell & Hartzell, Inc., 306 Dexter Ave., $72,280, $94,950; Moloney Electric Co., 2603 Western Ave., $74,530, $97,950. The following firms submitted identical bids of $74,670, $98,090: Allis-Chalmers Manufacturing Co., 5538 Henry Bldg.; Westinghouse Electric Corp., 3451 E. Marginal Way; Wagner Electric Co., 6400 Plymouth Ave., St. Louis, Mo.; McGraw-Edison Co., Adams Ave., Canonsburg, Pa.; General Electric Co., 710 2nd Ave. All of Seattle unless otherwise noted. PD 8-14

▲BUCKET LOADER— Seattle, Wash.

Bids received August 13 by Paul R. Hendricks, city purchasing agent, County-City Bldg., Seattle, for furnishing one front-end bucket loader. Amounts of bids are less trade-in. LOW BIDS: Hatten Machinery Co., 3433 4th Ave. S., $12,115; Columbia Equipment Co., 5030 1st Ave. S., $12,948; Howard Cooper Corp., 5055 4th Ave. S., $14,006. All of Seattle.

PD 8-14. Previous report 8-7

● WADING POOL— Seattle, Wash.

Bids will be opened 10 a. m., August 27, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing a wading pool at Beacon Hill playground; Contract No. 607. Specifications with Park Department, 100 Dexter Ave., Seattle. Certified check, 5% bid bond, or cash. PD 8-14

● STATE HIGHWAY PROJECT— Spokane, Wash.

Bids will be opened 10 a. m., August 29, in the office of Washington State Highway District Engineer D. E. Stein, N. 2820 Mayfair St., Spokane, for fog treatment on 5.01 mi. PSH No. 2 and type I-1 asphaltic concrete pavement and sand seal treatment on 0.99 mi. SSH No. 3-H, Custer St. to Pines Road and Pines Road, Spokane County; a State Project. Specifications with above office. Certified check, cashier's check or bid bond 5%. Quantities: 200 ton asphaltic concrete pavement; 100 c.y. fine mineral aggregates. SP 8-13

▲SURFACING, STOCKPILING— Spokane, Wash.

Bids received by Spokane County Commissioners, Courthouse, Spokane, for two county road projects, one involving asphaltic concrete paving of two suburban streets (CRP 342) and the other involving production and stockpiling of 20,000 ton crushed stone at two sites southeast of Rockford (CRP 341). Bids opened August 9. LOW BIDS—CRP 341: D. A. Sullivan, Box 37, Parkwater Station, $19,845; Southeland Construction Co., Wilbur, $24,300; Materne Bros., Box 7052, Garland Station, $26,250. CRP 342: Sullivan Paving Co., E. 6614 Main, $40,794; Max J. Kuney, N. 120 Ralph, $41,960; Inland Asphalt Co., Box 4116, Station B, $41,960. Of Spokane unless noted.

SC 8-13. Previous report 8-3

● RADIO SYSTEM— Stanwood, Wash.

Bids will be opened 8 p. m., September 9, by Lawrence Stovner, town clerk, Town Hall, Stanwood, for furnishing and installing two-way radio equipment for a base station and three mobile units with four auxiliary speakers. Specifications with above office. SC 8-10

● GRADING, SURFACING—Tacoma, Wash.

Bids will be opened 10 a. m., August 20, by Pierce County Commissioners, Courthouse, Tacoma, for improvement of 2.727 mi. of the Military Road in Pierce County, beginning at the Mountain Highway and ending at Knoble Road, by clearing, grubbing, grading, ditching, placing crushed stone surfacing on the shoulders, bituminous roadmix surfacing and other work; CRP 1664. Specifications with Keith F. Jones, county engineer, above address. $5 deposit. Certified check or cashier's check 5%. Quantities include 27,656′ preparation of shoulders and cleaning ditches. SP 8-13

▲ FLUME— Tacoma, Wash.

Bids received by Board of Contracts and Awards, 204 City Hall, Tacoma, for dewatering area, constructing temporary flume for by-passing intake, excavating intake basin and placing concrete in connection with rehabilitation of Green River Intake at Water Division Headworks located in King County about 42 mi. east of Tacoma. Bids opened August 12. BIDERS: Intrusion-Prepakt, Inc., 208 oClumbia, $25,275; West Coast Construction Co., 835 W. 48th, $31,975; Big Bend, Inc., 712 Randolph Place, $49,750; Paul Jarvis, 1070 W. Ewing, $82,303. All of Seattle. SP 8-13. Previous report 7-27

POWER LINE— Tacoma, Wash.

Bid opening of August 15 has been postponed indefinitely by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing and construction of 6.3 mi. of the Tacoma-Cowlitz 230 kv tap line terminal, Pierce County, Wash.; Inv. No. 8464. SP 8-14. Previous report 8-10

▲SUBMARINE CABLES—Tumwater, Wash.

Bids received by the district engineer of Washington State Highway Commission, J. C. Claypool, Tumwater, for replacing four existing electrical submarine cables with four new cables furnished by the state, on PSH No. 13, Chehalis River Bridge No. 13/1, City of Aberdeen, Grays Harbor County. Bids opened August 8. Bids were previously opened July 11 and rejected. LOW BID: Leiter Hockett, 3415 W. 66th, Seattle, $5,500. ONLY OTHER BID: Quigg Bros.-MacDon-

ald, Inc., 1500 Riverside Ave., Hoquiam, $9,770. RM 8-14. Previous report 7-18

▲STREET IMPROVEMENTS— Vancouver, Wash.

Bids received by city purchasing agent, 712 Washington St., Vancouver, for three street improvement projects. BIDDERS — PITT ROAD: Clark County Road & Driveway, Vancouver, $9,034; Fred Hardesty, 6921 E. Middle Way, Vancouver, $9,050; Portland Road & Driveway Co., 7295 S.E. King Road, Portland, $9,767. BROADWAY: United Contracting Co., 9898 N.E. Hancock Drive, Portland, $5,006; Hardesty, $5,414; Portland Road & Driveway, $6,715. MT. THIELSON: Fred Hardesty, $7,055; Portland Road & Driveway, $7,190. Bids opened August 7.
WB 8-10. Previous report 7-26

●FOG NOZZLES— Vancouver, Wash.

Bids will be opened 3 p.m., August 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, 79 fog nozzles; Inv. No. 8513. Specifications with above office. SP 8-10

●SEWERS— Vancouver, Wash.

Bids will be opened 10 a.m., August 19, by Vancouver Housing Authority, Fred Senechal, executive director, McLoughlin Heights, Vancouver, for installation of sewers in Northwood section of McLoughlin Heights. Specifications with above office. $5 deposit.

Quantities: 160 of 10" and 8,146' of 8" sewer mains; 3,270' of 6" sewer laterals; 27 wyes; 25 manholes; 6 cleanouts; 15 sets drywells. (Bid opening was originally scheduled for August 7 but was cancelled due to error in specifications.)
WB 8-13. Previous report 8-1

●STREET IMPROVEMENTS— Vancouver, Wash.

Bids close 1 p.m., August 23, and will be opened 1:30 p.m., by city purchasing agent, R. E. Moisant, 712 Washington St., Vancouver, for improvement of "F" street from 38th to 39th; LID 247. Plans with engineer's office, City Hall. $15 deposit. Certified check, cashier's check or bid bond 5%. Includes 496' concrete curb; 2,828 sq. ft. concrete sidewalk; 275 sq. yd. bituminous surfacing. WB 8-14

●ATHLETIC FIELD— Vancouver, Wash.

Bids will be opened 2 p.m., August 16, by J. Holz, acting supervisor of purchasing, Box 1164, Olympia, for improving land at the State School for the Deaf in Vancouver for an athletic field. Specifications with above office. SC 8-14

★PAVING— Yakima, Wash.

Award to Yakima Cement Products Co., S. 1st St., Yakima, $33,175, by Yakima County Commissioners, Courthouse, Yakima, for paving 2 mi. of Summitview Ave. with cement concrete pavement.
IG 8-13. Previous report 8-3

★FLOODLIGHTING SYSTEM— Yakima, Wash.

Award announced by J. A. Applegate, clerk, Metropolitan Park District Office, room 125, City Hall, Yakima, for remodeling of the existing overhead floodlighting system at the Larson Park Softball Field No. 1 in Yakima. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened August 7. AWARD: Knobel Cascade Electric, 412 Glenside Ave., Yakima, $11,006. ONLY OTHER BID: James W. Adams, Selah, $13,419.
IG 8-14. Previous report 8-1

IDAHO

●IRRIGATION PIPE— Boise, Idaho

Bids will be opened 12 noon, August 19, by Boise Independent School District, Clyde Langlois, assistant superintendent, 1207 Fort St., Boise, for furnishing 24" concrete irrigation tile or corrugated metal pipe, for the Hawthorne School. Specifications with above office. SC 8-9

STATE HIGHWAY PROJECTS

Bids received August 6 by Utah State Road Commission, Salt Lake City, on four highway construction projects as follows:

UNIVERSITY ROADS—Plantmix bituminous surfacing on 0.896 mi. of various roads on campus of Utah State University at Logan, Cache County; State Project No. 1589. LOW BID: LeGrand Johnson Construction Co., Inc., Logan, $20,696.

STATE ROAD No. 46—Roadmix bituminous surfacing on 1.512 mi. between Utah-Colorado state line westerly for 1.5 mi., San Juan County; FAP No. A-AA-S 34(2), First Contract. LOW BID: Lewis-McNeish Construction Co., Box 156, Bountiful, $145,784.

BRIDGE—Concrete bridge over 20' span, about 0.012 mi., FAS Route No. 527, between River Heights and Logan, Cache County; FASP No. S-0527(2). LOW BID: LeGrand Johnson Constructtion Co., Inc., Logan, $79,729.

STATE ROAD No. 197—Roadmix bittuminous surfacing on 1.113 mi. from junction of State Road No. 197 and No. 68 in Lehi northerly to U.S. 91, Utah County; FASP No. S-0207(1). LOW BID: Gibbons & Reed Co., 825 W. 9th North, Salt Lake City, $46,545.
SP 8-10. Previous report 7-24

▲STATE HIGHWAY PROJECTS— Boise, Idaho

Bids received by Department of Highways, 603 Main St., Boise, for three highway construction projects on which bids opened August 6.

CALDWELL EAST (Street Lighting) — Install street lighting system at junction of Highway 20-26 and 10th Ave. in Caldwell, Canyon County; FAP No. F-3021(11). Completion time 80 working days.

LOW BIDS: Electric Service Co., 821 State, Boise, $15,672; Alloway Electric Co., 704 Main, Boise, $17,802; Enterprise Electric Co., 3013 N. 28th, Boise, $17,920.

CALDWELL EAST (Seal Coat)—Sealcoating 1.524 hi. Highway Nos. 20-26, Canyon County; 15,500 gal. RC-5 asphaltic road material; 775 ton cover coat material.

ONLY BID: Nelson & Deppe, 3501 Mountain View Drive, Boise, $7,982.

ELLIS CURVE—Excavating 5,000 c.y. rock point about 0.25 mi. north of Ellis at MP 264.9 on Highway No. 93, Lemhi County; ST-6354(507). Completion time September 15.

LOW BIDS: C. H. Elle Construction Co., Box 1190, Pocatello, $7,400; Colonial Construction Co., N. 615 Mansfield, Spokane, $18,000; Duffy Reed Construction Co., Box 1092, Twin Falls, $20,000.
SP 8-9. Previous report 7-23

▲TRAFFIC SIGNAL INSTALLATIONS Boise, Idaho

Starline Equipment Co., 503 S. 16th, Boise, submitted the only bid, in the amount of $5,658, to Ted Cramer, state purchasing agent, 228 State House, Boise, for traffic signal installations for the highway department at Boise. Bid opened July 29.
SP 8-10. Previous report 7-24

▲REFRIGERATING UNIT— Boise, Idaho

Horlan's, 5007 Gage, Boise, submitted the only bid, in the amount of $1,099, to Ted Cramer, state purchasing agent, 225 State House, Boise, for five ton refrigerating unit for the highway department at 603 Main St. in Boise; Req. No. BO-41-7134. Bid opened July 25. SP 8-10. Previous report 7-19

▲AIR COMPRESSOR— Boise, Idaho

Bids received by R. E. Edlefsen, purchasing agent, City Hall, Boise, for furnishing an air compressor for the Boise City Cemetery. BIDDERS: Starline Equipment Co., 503 S. 16th, $2,100; The Sawtooth Co., 1115 Grove, $2,350; Engineering Sales Service, Inc., 410 S. Capitol Blvd., $2,660; Southern Idaho Equipment Co., 204 E. Myrtle, $2,845; Intermountain Co., 1322 Grove, $2,850. All of Seattle. SP 8-13. Previous report 7-23

●TEST WELL— Idaho Falls, Idaho
(Estimated cost $12,000)

Bids will be opened 3 p.m., August 28, by Atomic Energy Commission, Box 1221, Idaho Falls, for drilling, casing and testing an advance planting test well having an estimated depth of 750', with a 15" bore diameter and 10g casing, at Arbor Site at the National Reactor Testing Station in Idaho; AT(10-1)-921. Specifications with above office.
SP 8-14. Previous report 8-1

●ELECTRICAL EQUIPMENT, ROADS, IRRIGATION— Iona, Idaho

Bids will be opened 8 p.m., August 19, by Bonneville Class A School District No. 93, Iona, for installation of electrical equipment and construction of roads, sidewalks, curbs, planting areas, irrigation system for the new Central High School at Iona. Plans with C. A. Sundberg & Associates, architects, 11 E. 16th, Idaho Falls. GH 8-14

NATURAL GAS PIPELINE— Pocatello, Idaho

Full-scale work is underway by Intermountain Gas Co., Stan Day, local manager, 905 Main, Boise, on the Idaho Falls natural gas lateral pipe to serve Blackfoot, Shelley and the AEC headquarters. The 10" pipe will connect with the main pipeline 1¼ mi. south of Pocatello, will cross the Portneuf River and the lava outcroppings and will circle south of Pocatello into the east foothills. Grading in the east hills is now underway.

Construction of distribution lines in Pocatello is about 60% completed, with the deadline for the first phase being September 15. The first distribution grid makes a square in the center of the city and will contain high pressure lines carrying gas at about 75 lb. per square inch. Lines in the alleys will average 20-35 lb. and 2" pipe into residences will carry gas at four oz. pressure.
SC 8-9

▲ELECTRIC SEINE, GENERATOR— Pocatello, Idaho

Bids received by Ted Cramer, purchasing agent, 225 State House, Boise, for electric seine and generator for the Fish and Game Department at Pocatello; Req. No. 32. Bids opened August 5. ONLY BIDS—SEINE: Joe P. Chenault, Jr., Frankfort, Ky., $712. GENERATOR: Homelite Co., North Salt Lake, Utah, $1,180. SP 8-10. Previous report 8-1

■EXPLORATORY DRILLING— Priest River, Idaho

Planholders announced for exploratory churn drilling of the Priest River power project dam and power house sites near Priest Lake, Idaho, on which bids will be opened 1:30 p.m., August 19, by Northern Lights, Inc., at its office on Dover Highway in Sandpoint, Idaho. Contract documents and bidding forms with H. A. Sewell and J. A. Sewell, consulting engineers, Newport, Wash.

Planholders: Morrison-Knudsen Co., Inc., Box 2559, Boise; Spokane Drilling Co., E. 2504 Pacific, Spokane; Corky Smith, E. 6609 Riverside, Spokane; Inland Drilling Co., E. 7901 Knox, Spokane.
SP 8-14. Previous report 8-3

■DRAINAGE WELLS— Rupert, Idaho

Planholders announced for drilling drainage wells in Jerome and Minidoka counties, 10 to 12 mi. north and west of Rupert. Bids will be opened 10 a.m., August 22, in the office of the Construction Engineer, Bureau of Reclamation, Rupert.

Planholders: Mountain States Irrigation Co., Callahan, Colo.; Andrew Well Drilling, 1360 E. 17th St., Idaho Falls; A. A. Durand & Son, Box 437, Walla Walla, Wash.; Cushman & Johnson, Blackfoot; Richard Briggs, 300 Hanan Drive, Boise; Western Drilling & Equipment Co., 1545 Bay St., Tacoma, Wash.; C. E. George, Route 2, Wendell; R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, Ore.; Commons Drilling Co., Box 126, Rupert; C. B. Eaton & Sons, Box 265, Wendell; Ralph C. Denton Drilling Co., Box 116, Murtaugh; Jack Alexander, 510 13th St.,

Rupert; Olof Nelson, Box 267, Logan, Utah; Kelly Well Co., 617 E. 7th St., Grand Island, Nebr. GH 8-14. Previous report 7-31

SEWAGE PROJECT— Sandpoint, Idaho
(Estimated cost $278,000)

Bond election will be held September 10 by City Council, City Hall, Sandpoint, on a $140,000 bond issue to finance construction of a sewage disposal plant, including lift station and outfall line, at Sandjoint. The site of the plant is on the Pend Oreille River south of the fairgrounds.
SC 8-13. Previous report 7-26

MONTANA

● CAST IRON WATER MAIN— Billings, Mont.

Bids will be opened 10 a. m., September 3, by Yellowstone County Commissioners, Courthouse, Billings, for installation of 825' of 6" cast iron water main in RSID No. 393, Billings. Specifications on file in office of Jack Mueller, county surveyor, above address. Certified check 10%. EE 8-14

● CAST IRON PIPE, TRACK-TYPE VEHICLE— Billings, Mont.

Bids will be opened 5 p. m., August 27, by City Council, City Hall, Billings, for purchase of 3,100' of 14" and 3,000' of 10" cast iron pipe for the city water department, and for purchase of one track type vehicle for sanitary landfill construction; separate bids on pipe and vehicle. Specifications with city engineer, above address. Certified check or bid bond 5% (pipe), certified check 10% (vehicle). EE-8-14

● DISTRIBUTION LINE— Ekalaka, Mont.

Bid opening extended from August 7 to 10 a.m., August 28, by Southeast Electric Cooperative, Inc., Ekalaka, for construction of 48.0 mi. single-phase 14.4-kv distribution line and 0.5 mi. service located in Carter and Crook counties, Mont., and Wyo., respectively; Montana 34F Carter. Specifications with Associated Engineers, Inc., 1127 Alderson Ave., Billings.
SP 8-13. Previous report 8-1

● STATE HIGHWAY PROJECTS— Helena, Mont.

Bids to be opened 9 a.m., August 30, by Montana State Highway Commission, Helena, on 14 highway construction projects.

CHESTER-GILFORD ROAD, SURFACING —Grade, gravel surfacing, bituminous surface treatment, draining 3.737 mi., Hill County, F 132(6) Unit 1.

Quantities: 199,305 c.y. excavation; 24,943 mi. yd. overhaul; 87,642 ton crushed gravel; 52,947 gal. asphalt.

SAGE CREEK BRIDGE—Steel and concrete, 120' bridge on Chester-Gilford Road, Hill County, F 132(6) Unit 2.

Quantities: 237' steel bridge rail; 62,070 lb. reinforcing steel; 300 c.y. concrete.

SKALKAHO ROAD SURFACING—Gravel surfacing, bituminous surface treatment, 1,880' metal ditch lining on 4.522 mi. in Ravalli County, F 161(4) Unit 2.

Qauntities: 68,944 ton crushed gravel; 40,196 gal. asphalt.

CASCADE-ULM ROAD BRIDGES — One steel and concrete, 130' bridge over Center St., in town of Ulm, two steel and concrete, 100' bridges over Little Muddy Creek, Cascade County, I 182(5).

Quantties: 234,765 lb. reinforcing steel; 1,059 c.y. concrete; 3,995 c.y. excavation.

IDAHO LINE-DILLON ROAD SURFACING—Grade, gravel surfacing, bituminous surface treatment, drain 12.082 mi., Beaverhead County, I-ING 255(12) Unit 1.

Quantities: 1,160,852 c.y. excavation; 414,-043 mi. yd. overhaul; 380,793 ton crushed gravel; 125,032 gal. liquid and 125,322 gal. emulsified asphalt.

IDAHO LINE-DILLON ROAD BRIDGES— One 280' and one 118' steel and concrete bridge over Union Pacific Railroad and near Monida respectively, Beaverhead County, I-ING 255(12) Unit 2.

Quantities: 123,225 lb. reinforcing steel; 890 c.y. concrete; 1,425 c.y. excavation.

OUTLET WORKS, PENSTOCK INTAKE REHABILITATION

Bids received by Bureau of Reclamation, Cody, for left abutment outlet works and rehabilitation of penstock intakes, Buffalo Bill Dam, near Cody; Spec. No. DC-4936. Bids opened August 8. BIDDERS: Long Construction Co., Lockpood Flats, Billings, $680,460; Mountain States Construction Co., Denver, Colo., $732,650. Engineer's estimate, $474,320.
SP 8-14. Previous report 7-2

GLENDIVE - RICHEY ROAD, SURFACING—Grade, gravel surfacing, bituminous surface treatment, drain 7.949 mi., Dawson County, S 32(8).

Quantities: 130,735 c.y. excavation; 101,896 ton crushed gravel; 42,505 gal. liquid asphalt; 52,505 gal. emulsified asphalt.

CONRAD - EAST ROAD BRIDGE, SURFACING—Grade gravel surfacing, bituminous surface treatment, drain, construct 50' treated timber bridge over Pondera Coulee for 8.067 mi., Pondera County, S 98(3).

Quantities: 176,275 c.y. excavation; 33,318 mi. yd. overhaul; 115,206 ton crushed gravel; 43,803 gal. liquid asphalt; 43,803 gal. emulsified asphalt.

PRESSERVILLE - GERARD - FAIRVIEW SURAFCING—Grade, gracel surfacing, drain 9.122 mi., McCone County, S 190(3).

Quantities: 184,412 c.y. excavation; 10,086 mi. yd. overhaul; 56,847 ton crushed gravel.

SCOBEY-CANADIAN LINE ROAD, SURFACING—Grade, gravel surfacing, bituminous surface treatment, drain 9.406 mi., Daniels County, S 197(3).

Quantities: 248,656 c.y. excavation; 171,630 ton crushed gravel; 55,785 gal. liquid asphalt, 55,937 gal. emulsified asphalt.

BROCKTON-NORTH ROAD, SURFACING —Grade, gravel surfacing, bituminous surface treatment, drain 7.507 mi., Roosevelt County, S 202(2).

Quantities: 135,710 c.y. excavation; 115,135 ton crushed gravel; 40,799 gal. liquid and 40,799 gal. emulisified asphalt.

PENDROY-CONRAD ROAD, SURFACING —Grade, gravel surfacing, roadmix oiling, seal coat oiling, drain 1.675 mi., Teton County, S 310(5).

Quantities: 21,128 c.y. excavation; 57,693 gal. liquid asphalt; 27,449 ton crushed gravel.

LAME DEER-COLSTRIP ROAD SURFACING — Grade, gravel surfacing, bituminous surface treatment, drain 8.129 mi., Rosebud County, S 362(4).

Quantities: 320,300 c.y. excavation; 110,689 ton crushed gravel; 44,417 gal. liquid and 44,417 gal. emulsified asphalt.

WATER SYSTEM — Revise water supply system at Lewis and Clark Cavern State Park, Jefferson County, SPP 071-7512-01, consisting of furnishing, installing high pressure water pump, chlorination system float valve, water lines, construction of filter system at water source, reinforced concrete water tanks, pumphouse. DM 8-13

● FIRE PROTECTION FACILITIES— Hot Springs, Mont.

Bid opening extended from August 6 to 2:30 p. m., August 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of fire protection facilities at Hot Springs substation, about three mi. southeast of Hot Springs, Sanders County, Mont.; Inv. No. 8495. Specifications with above office. It was decided to extend the bid opening when no bids had been received in time for the August 6 opening.
SP 8-9. Previous report 8-8

▲ RESERVOIR, PUMPHOUSE, PIPING— Miles City, Mont.

Bids received by Fish & Wildlife Service, Interior Bldg., 1001 N.E. N.E. Lloyd Blvd., Portland, for construction of reservoirs, ponds, ditches, dikes, piping, reinforced concrete structure, pumphouses, pumps, roads and allied appurtenances at the proposed U.S. Fish Cultural Station about one mi. south and west of Miles City. Bids opened August 13. LOW BIDS: Regan Plumbing & Heating, 11 S. 9th, Miles City, $169,133; F. L. Flynn & Co., 520 Ave. D, Billings, $179,742; Lowe Construction Co., Box 883, Billings, $196,700.
WB 8-14. Previous report 7-24

PARK DEVELOPMENT— Noxon Rapids Dam, Mont.

A proposal from the Thompson Falls-Noxon Chamber of Commerce for the establishment of a state park on the Noxon Rapids Dam reservoir is under consideration by the state parks division of Montana State Highway Commission, Capitol Bldg., Helena.
SC 8-9

★ BRIDGE, APPROACHES— Noxon Rapids Dam, Mont.

Two awards announced by Washington Water Power Co., W. 825 Trent Ave., Spokane, Wash., for construction of approaches to new Trout Creek bridge, including grading, fill and riprap, and for erection of the superstructure of Highway 10A bridge at Trout Creek, in connection with the Noxon Rapids hydroelectric project. AWARDS— APPROACHES: Sather & Sons, N. 1410 Howe St., Yardley, $108,000. SUPERSTRUCTURE: Allied Structural Steel Co., Chicago, Ill., $500,000.
EE 8-14

CLARK FORK RIVER BRIDGE— Thompson Falls, Mont.

A final decision is expected soon from the Montana State Highway Commission, Capitol Bldg., Helena, concerning a proposal by the Thompson Falls-Noxon Chamber of Commerce for construction of a new Highway 10A bridge across the Clark Fork River at the site of the old city dump at Thompson Falls. It has been suggested that the highway department go ahead with the bridge on the basis of utilizing $85,000 offered by Washington Water Power Co., which would be spent otherwise to raise the present Birdland Bridge to place it above flood stage when the Noxon Rapids reservoir is flooded. BPR officials have stated they consider the project necessary and are willing to recommend full participation with federal funds for the construction. If constructed, the new highway bridge would eliminate the future rebuilding of two bridges across the river near Montana Power Co. plant in the county's secondary road program up Prospect Creek.
SC 8-9

ALASKA

● EXCAVATION, SEWER— Anchorage, Alasga

Bids will be opened 2 p. m., August 20, by City Council, City Hall, Anchorage, for excavation of 14th Ave. from S to P streets and both S and P streets from 14th Ave. to 15th Ave., and construction of a sanitary sewer line in 14th Ave., Anchorage. Specifications with city purchasing agent, Post Road and 1st Ave., Anchorage. SC 8-14

★ SEAPLANE FACILITY— Excursion Inlet, Alaska

Award to Cole & Paddock, 1800 Glacier Ave., Juneau, $5,946, by Alaska Department of Aviation, Eugene G. Roguska, acting director, 202 Glover Bldg., Anchorage, for construction of a seaplane facility in Excursion Inlet; Project No. 9-50-044-01. Bids opened July 26. SP 8-9. Previous report 7-19

● ROCK BREAKWATER— Haines, Alaska

Bids will be opened 10 a. m., September 11, by Alaska Public Works, 123 W. 3rd St. (Box 1181), Juneau, for construction of a rock breakwater, consisting of 35,608 c.y., Hines small boat harbor, Haines; Proj. Aaa 50-A-290. Specifications with above office. Certified check or bid bond 5%. An opportunity will be given in the bid documents of this project and Proj. Aaa 50-A-261, Skagway Boat Harbor (see PCD this issue), to permit a reduction in the bids, should both projects be awarded to the same contractor.
SP 8-10

● ROCK BREAKWATER— Skagway, Alaska

Bids will be opened 10 a. m., September 11, by Alaska Public Works, 123 W. 3rd St. (Box 1181), Juneau, for construction of a rock breakwater, consisting of 18,507 c.y., Skagway small boat harbor, Skagway; Proj.

Aaa 50-A-261. Plans with above office. Certified check or bid bond 5%. An opportunity will be given in the bid documents of this project and Proj. Aaa 50-A-290, Haines Boat Harbor (see PCD this issue), to permit a reduction in the bids, should both projects be awarded to the same contractor. SP 8-10

NORTHERN CALIFORNIA

LAUNCHING RAMP— Alameda, Calif.

An allocation of $24,860 for constructon of a launching ramp for pleasure boats in Alameda, has been approved by the State Wild Life Conservation Board. Project will be located on land at foot of Grand St. on Oakland Estuary in Alameda. Robert Venable, assistant planning director of Alameda expects construction to start late in August. DC 8-17

▲PAVING— Alameda, Calif.

Bids received by City Council, Shirley H. Tennier, clerk, City Hall, Alameda, for paving in the vicinity of new municipal golf course clubhouse No. PW 7-57-19, and for ditch lining with air-blown mortar or concrete at the new golf course. Bids opened August 6. PAVING—LOW BIDS: O. C. Jones & Sons, 1520 4th St., Oakland, $10,160; Gallagher & Burk, Inc., 344 High St., Oakland, $11,144; Redgwick & Banke, 20541 Webb Ave., Hayward, $11,166. DITCH LINING—ONLY BIDS: McGuire & Hester, 796 66th Ave., Oakland, $11,875 (gunite method to be used); Cement Gun Construction Co., Box 417, Sausalito, $14,000 (gunite method).
SP 8-17. Previous report 7-27

▲TRACTOR DOZER— Bridgeport, Calif.

Bids received by Mono County Board of Supervisors, Bridgeport, for furnishing one tractor dozer, not less than 100 drawbar hp., 20" track shoe. Bids opened August 5. LOW BIDS: Sanford Co., N. Valley Road, Reno, Nev., $20,700; Crooks Bros., Dickerson Road, Reno, $25,387; Reno Equipment Sales, 1510 W. 4th, Reno, $28,566.
SP 8-17. Previous report 7-27

▲TRACTOR SHOVEL— Bridgeport, Calif.

Bids received by Mono County Board of Supervisors, Bridgeport, for furnishing one new rubber tired, four-wheel drive tractor shovel, 105 hp. diesel minimum, 19,000 lb. minimum. Bids opened August 6. LOW BIDS: Smith Booth Usher, 2001 Santa Fe, Los Angeles, $15,867; Sanford Co., N. Valley Road., Reno, Nev., $16,310; Graid Co., N. Wells, Reno, $17,919.
SP 8-17. Previous report 7-27

●POWER DISTRIBUTION LINE— Central Valley, Calif.

Bids will be opened 8 p.m., September 4, by Shasta Dam Area PUD, A. A. Wade, manager, 4201 Front St., Central Valley, for construction of 5.7 mi. of 13.8-kv. delta 3-phase primary, 8.5 mi. of 13.8-kv. delta single-phase primary and 5.9 mi. of 120/240-volt off line secondary power distribution pole line (total of 20.1 mi.) and 6.1 mi. of 120/240-volt underbuild secondary line, Central Valley and Project City, approximately 6 mi. north of Redding. Specifications with Robert Welty, consulting engineers, Box 282, The Dalles, Ore. and with above office. $10 charge. Construction period 90 days.
SP 8-17

DIVERSION DAM, CANAL— Colusa, Calif.

Water contracts between the federal government and the West Side and Dunnigan water districts, embracing some 20,000 acres to be served by the Tehama-Colusa-Yolo Canal, have been approved by the Department of the Interior. The proposed contracts will be submitted to the California District Securities Commission for state approval. These are the first district contracts to be approved by the Department of the Interior on the Tehama-Colusa-Yolo Canal which would provide water for 150,000 acres in Tehama, Glenn, Colusa and Yolo counties. Approval of the contracts is a step toward early construction of the Red Bluff diversion dam and the west side canal. SC 8-17

★PUMPING, WELL— Chino, Calif.

Award to Bovee & Crail Construction Co., Paramount, $34,394, by State Department of Public Works, Public Works Bldg., Sacramento, for pumping and additional well at California Institution for Men at Chino.
SP 8-17

▲PAVING— Lodi, Calif.

Bids received August 6 by city engineering department, City Hall, Lodi, for two paving projects. LOW BIDS—TURNER ROAD-MILLS-HOLLY INTERSECTION: Rice Bros. Inc., Box 480, Lodi, $22,389. FIVE SUBDIVISIONS: Rice Bros., Inc., $22,285.
DC 8-17

SEWAGE TREATMENT PLANT— Mather AFB, Calif.

Project postponed indefinitely by Corps of Engineers, Wright Bldg., Sacramento, for a sewage treatment plant at Mather AFB.
SC 8-17

STREET CONSTRUCTION— Modesto, Calif.
(Estimated cost $15,201,000)

During the next fourteen years the City of Modesto will spend approximately $15,201,000 for construction on city streets, according to a report submitted to the State Division of Highways in Sacramento by Ross Miller, city manager, City Hall, Modesto. It is estimated that nearly half the total expenditures, $8,560,000, would be needed for 13 mi. of arterials. Secondary streets total 30.1 mi. and would require $4,018,000 in construction. SP 8-17

★PAVING— Modesto, Calif.

Award to M. J. Ruddy & Son, Route 6, Box 1419A, Modesto, $49,782, by Department of Public Works, Marvin E. Ray, director, City Hall, Modesto, for paving of Miller Ave. and G St. Extension in Modesto.
SP 8-17. Previous report 8-10

▲TRAFFIC SIGNALS, CONTROLLERS— Oakland, Calif.

Bids received by Gladys H. Murphy, city clerk, City Hall, Oakland, for fixed time traffic signal controllers, pedestrian walk-wait signals and traffic signals. Bids opened August 8. LOW BIDS: Econolite Corp., 389 Clementina, San Francisco, $582; General Electric Supply Co., 1201 Bryant, San Francisco, $680; The Electric Corp., 178 10th St., Oakland, $692. SP 8-17. Previous report 8-3

★FIRE SPRINKLER SYSTEM— Oakland, Calif.

Award to George M. Robinson & Co., 852 85th Ave., Oakland, $102,859, by Port of Oakland, Grove St. Pier, Oakland, for a fire sprinkler system in the cantilever hangar under construction at the Metropolitan Oakland International Airport.
SP 8-17. Previous report 7-27

●ROAD RELOCATION— Oak View, Calif.

Bids will be opened 10 a.m., August 27, by Bureau of Reclamation, Box 97, Oak View, for Santa Ana Road relocation near Oak View, Ventura County, Calif.; Spec. No. 200C-363. Specifications with above office and with C. H. Spencer, regional director, Region 2, Box 2511, Sacramento. Bid bond 10.%

Quantities: 57,000 c.y. excavation for roadway; 100 c.y. excavation for pipe culverts; 375 c.y. compacted backfill; 716' corrugated metal pipe; 64' drains; 5,750 ton untreated base; 22 ton prime coat; 2,130 ton plantmix surfacing; 18 ton asphalt emulsion; 215 ton stone chips. SP 8-17

★PAVING— Patterson, Calif.

Award announced by Patterson Elementary School District, Patterson, for several paving projects in the district. AWARD: George Reed, 529 Covena Ave., Modesto, $10,650. ONLY OTHER BID: H. Sykes, Box 998, Patterson, $11,870. Work calls for 200'x 16' walk top finish section west of the Las Palmas School classrooms for basketball courts; 57'x90' section of blacktop finish paving west of the Northmead School; 45' wide, 222' long backtop finish driveway between the classrooms and basketball courts at Las Palmas School, and a 9' wide, 342' long slope off blacktop finish paving south of the new classroom wing at Las Palmas.
SC 8-17

★STREETS— Sacramento, Calif.

Award to McGillivray Construction Co., Box 873, Sacramento, $175,301, by City Council, City Hall, Sacramento, for improvement to roads, streets and sidewalks within and adjacent to Carleton Tract in Sacramento.
PB 8-17. Previous report 8-10

▲GRADING, SURFACING— Sacramento, Calif.

A low bid of $26,227 was submitted by Saginaw Construction Co., 6444 Saginaw St., Selma, to the State Department of Public Works, Sacramento, for grading and surfacing 0.5 mi. on Ventura St. between C St. and Broadway in Fresno. Bids opened August 7. DM 8-17

★PUBLIC WORKS PROJECTS— Sacramento, Calif.

Awards announced by State Department of Public Works, Public Works Bldg., Sacramento on six construction projects.

Colusa County—Reinforced concrete girder bridge and approaches across Stony Creek at Stonyford on FAS County Route 1117. AWARD: Arthur B Siri, Inc., 1357 Cleveland, Santa Rosa, $206,867.

Napa County—Miscellaneous minor road and curve repair at Napa State Hospital, Imola. AWARD: Don Dowd Co., Box 180, Sebastopol, $11,600.

Shasta County—Clear Creek Dam fishways near Redding. AWARD: John H. McCosker, Inc., 1401 East Shore Highway, Berkeley, $64,111.

Humboldt County—Electrical distribution system at Richardson Grove State Park. AWARD: Frank Electric Co., Inc., 570 C St., Hayward, $16,899. DM 8-17

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced on six highway projects on which bids were opened July 31 by California Division of Highways, 510 Public Works Bldg., Sacramento,

IX-MONO 1213—Roadmix surfacing 7.4 mi. between Oasis and the Nevada-California state line, Mono County. AWARD: Rice Bros. Inc., Box 480, Lodi, $69,659.

X-SJ TYO CAL MPA STA MER—Apply seal coat to existing surfacing 42.2 mi. at various locations in San Joaquin, Tuolumne, Calaveras, Mariposa, Stanislaus, Merced counties. AWARD: George Reed, 529 Covena Ave., Modesto, $44,157.

IV-SCI-1015—Grading, plantmix surfacing on untreated base and existing surfacing, drainage facilities on 1.4 mi. of existing two-lane road to be widened to four lanes, Capitol Ave. between McKee Road and Berryessa Road, Santa Clara County. AWARD: A. J. Raisch Paving Co., San Jose, $323,547.

II-MOD-1253—Eight reinforced concrete bridges at various locations between Canby and Alturas, Modoc County. AWARD: G. S. Herrington, Box 708, Auburn, $139,418.

II-SHA-3 C—Grading, plantmix surfacing on cement treated base to correct a slipout for about 0.3 mi. on four-lane highway about 30 mi. north of Redding, Shasta County. AWARD: Morgan Construction Co., Box 904, Redding, $64,988.

III-YOL 6 D—Grading, plantmix surfacing on untreated base and existing surfacing, one culvert, widening two bridges between Solano County line and Route 90 in Winters, Yolo County. AWARD: A. Teichert & Son, Inc., Box 928, Sacramento, $160,910.
PD 8-17. Previous report 8-3

★LIGHTING— Sacramento, Calif.

Award to Luppen & Hawley, Inc., 3126 J St., Sacramento, $39,057, by City Council, City Hall, Sacramento, for furnishing and installing 107 electroliers for the Carleton tract subdivision; Resolution 3186.
PB 8-17. Previous report 8-10

★SURFACING, CULVERT—
Sacramento, Calif.

Awards by Department of Public Works, Sacramento County, Administration Bldg., 827 7th, Sacramento, on two construction projects. Bids opened August 7.

FRUITRIDGE ROAD—Widening existing road to provide four-lane highway involving plantmix bituminous surfacing; extending concrete box culvert; furnishing, installing traffic signal system, for one mi. from Power Inn Road to Florin-Perkins Road. AWARD: Brighton Sand & Gravel Co., Box 1, Perkins, $73,938. OTHER LOW BIDS: Granite Construction Co., Box 900, Watsonville, $79,898; McGillivray Construction Co., Box 873, Sacramento, $81,982.

ELVERTA ROAD—Constructing new roadway with armor coat from 28th St. to point 1.010 mi. westerly. AWARD: J. R. Reeves, Box 1072, Sacramento, $24,933. OTHER LOW BIDS: Brighton Sand & Gravel Co., Perkins, $26,741; Lentz Construction Co., 2416 Sutterville Road, Sacramento, $27,665.

PB 8-17. Previous report 7-27

★SEWAGE TREATMENT PLANT, SANITARY SEWERS— Sacramento, Calif.

Awards to Krpan Trenching Co., Box 144, Perkins, $638,922, for construction of sanitary sewer trunk lines (Sched. A), and to Continental Construction Co., Box 2550, Sacramento, $929,000, for construction of a sewage treatment plant (Sched. B), by Sacramento County Sanitation District No. 3, Administration Bldg., 827 7th, Sacramento. Consulting engineers are Dewante & Stowell, 2015 J St., Sacramento.

PB 8-17. Previous report 8-10

★STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, for highway construction.

IV-ALA-226—Clean, paint bridge across San Leandro Bay between Bay Farm Island and Alameda, Alameda County. AWARD: Orell-Kees Co., Oakland, $39,831.

IX-INY, MNO-23; 23, 76—Sealing with medium seal coat about 51 mi. on Routes 23 and 76 at various locations in Inyo and Mono counties. AWARD: Howard B. Folsom, Box 722, Westwood, $55,240.

II-PLUS, LAS, 231, 83, 21—Apply medium fine seal coat about 7.2 mi., at various locations in Plumas and Lassen counties. AWARD: Howard B. Folson, Box 722, Westwood, $14,917. PB 8-17. Previous report 8-3

▲STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Following are apparent low bids received by California Division of Highways, 510 Public Works, Bldg., Sacramento, for highway construction listed below. Bids opened August 14.

X-MER-4-MER, C — Plantmix surfacing over existing pavement and drainage facilities on about 1.6 mi. between G St. in Merced and Bear Creek, Merced County.

LOW BID: Concrete Supply Co., Box 778, Merced, $41,644.

III-NEV-1038—Roadmix surfacing on untreated base, grading and drainage facilities for about 0.4 mi. on portions of Washington Road between State Route 15 and Washington in Nevada County.

LOW BID: Daniel Bayles, Jr., Biggs, $26,868.

III-COL-758—Grading, plantmix surfacing on selected material on 0.1 mi. of Gridley Road between 0.04 mi. east of Angel Slough Bridge and 0.1 mi. west of Butte County line in Colusa County.

LOW BID: Lester L. Rice & Sons, Inc., Box 408, Yuba City, $17,600.

PB 8-17. Previous report 8-3

● STREET IMPROVEMENTS—
San Leandro, Calif.

Bids will be opened 10 a.m., August 22, by H. H. Burbank, city clerk, City Hall, San Leandro, for improvement of W. 140th Ave. east of Merced St. and Merced St. south of W. 137th Ave. in San Leandro. Specifications with above office. SC 8-17

● ARMATURE WINDING FOR GENERATOR— Shasta Powerplant, Calif.

Bids will be opened 2 p.m., August 22, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for armature winding for generator unit No. 2 at Shasta powerplant, near Redding, Shasta County, Calif.; Spec. No. DC-4955. Specifications with above office. Bid bond 10%.

Work includes (a) furnishing and installing new generator armature winding for an existing 75,000-kva, 13,800-volt, 138.5-rpm, 3-phase, vertical shaft, alternating-current generator at the powerplant, and (b) furnishing sufficient number of spare coils for armature winding to span one coil pitch including end connectors, slot insulation, tape, wedges, etc. SP 8-17

● PUMP, ENGINE— Stockton, Calif.

Bids to be opened 5 p.m., August 26 by B. L. Trahern, city clerk, City Hall, Stockton, for furnishing and installing a pump and engine at Legion Park stormwater pumping plant in Stockton. Plans with Marshall Dunlap, city engineer, City Hall. Certified or cashier's check 10%. DC 8-17

★ROAD IMPROVEMENTS— Stockton, Calif.

Awards announced by L. H. Bradley, commissioner, San Joaquin County Supervisors, Courthouse, Stockton, for widening Fairchild Lane from State Highway Route 99 easterly to Vignolo Road, and for reconstruction of Kennefick Road from Acampo Road northerly 1.0 mi. to Peltier Road, Stockton. Bids opened July 22. AWARDS—FAIRCHILD: A. Teichert & Son, Inc., Box 1118, Stockton, $35,264. KENNEFICK: Claude C. Wood Co., Box 599, Lodi, $13,943. SP 8-17

★ROAD IMPROVEMENTS—
Stockton, Calif.

Awards announced by San Joaquin County Board of Supervisors, Courthouse, Stockton, for two road improvement jobs, involving reconstruction of Holly Drive along the half-mile from the Grant Line Road and resurfacing Woodbridge Road for one mi. east from Highway 99 to Kennefick Road. AWARDS — HOLLY DRIVE: Stanfield & Moody, 405 E. Rose, Stockton, $27,747. WOODBRIDGE ROAD: Rice Bros., Inc., Box 480, Lodi, $6,837. SC 8-17

★OXIDIZING PONDS, OUTFALL LINE— Tracy, Calif.

Awards announced by City Council, Robert L. Williams, city manager, City Hall, Tracy, for oxidizing ponds (Sched. A) and outfall line (Sched. B) in connection with the sewage disposal plant to be located at Tracy. AWARDS—SCHED. A: S. M. McGaw, 2216 E. Miner, Stockton, $17,215. SCHED. B: Karstedt & Son and Hacket Bros., 2410 Sunny Vista Drive, San Jose, $13,336.

SP 8-17. Previous report 8-10

● EARTHWORK, STRUCTURES—
Ventura, Calif.

Bids will be opened September 17 by Bureau of Reclamation, Box 97, Oak View, for earthwork, structures and concrete or steel pipe lines and access roads, Ventura River Project, near Ventura, Calif.; Spec. No. DC-4956. Specifications with above office and at Bldg. 53, Denver Federal Center, Denver, Colo.

Quantities: 356,000 c.y. excavation; 4.8 mi. concrete pipe; 27 mi. pretensioned concrete or steel pipe (alternate pipe). Completion time 500 days. SP 8-17

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., AUGUST 30
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 August 30, 1957. 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.

1. **F 132(6) Unit 1**—Grade, gravel surfacing, bituminous surface treatment and drain 3.737 miles on the Chester-Gildford Road in Hill County, involving about 199,305 cu. yds. excavation; 170 cu. yds. riprap; 100 cu. yds. gravel backfill; 24,943 mi. yds. overhaul; 87,642 tons crushed gravel; 4,740 M gals. watering; 800 units rolling; 26,455 gals. liquid asphalt; 26,492 gals. emulsified asphalt; 876 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; and other items. Project to be completed in 200 Calendar Days.
2. **F 132(6) Unit 2**—Construction of one 120.0' steel and concrete bridge over Sage Creek on the Chester-Gildford Road in Hill County, involving about 237.5 lin. ft. steel bridge rail; 62,070 lbs. reinforcing steel; 300.4 cu. yds. concrete; 390 cu. yds. structure excavation; 918 lin. ft. driving untreated timber piles; and all L. Sum untreated timber test piles. Project to be completed by August 31, 1958.
3. **F 161(4) Unit 2**—Gravel surfacing, bituminous surface treatment, and construction of 1,880 lin. ft. of metal ditch lining on 4.522 miles on the Skalkaho Road in Ravalli County, involving about 68,944 tons crushed gravel; 1,379 M gals. watering; 314 units rolling; 25,098 gals. liquid asphalt; 25,098 gals. emulsified asphalt; and 1,880 lin. ft. furnished and installed metal ditch lining. Project to be completed in 125 Calendar Days.
4. **I 182(5)**—Construction of one 130.0' steel and concrete bridge over Center Street in the Town of Ulm and two 100.0' steel and concrete bridges over Little Muddy Creek on the Cascade-Ulm Road in Cascade County, involving about 3,995 cu. yds. excavation; 669.3 lin. ft. steel beam bridge rail; 234,765 lbs. reinforcing steel; 1,059.1 cu. yds. concrete; 1,498 cu. yds. structure excavation; 5,520 lin. ft. furnished treated timber piling; 5,304 lin. ft. driving treated timber piling; and all L. Sum treated timber test piles. Project to be completed by October 31, 1958.
5. **I-ING 255(12) Unit 1**—Grade, gravel surfacing treatment and drain 12.082 miles on the Idaho Line-Dillon Road in Beaverhead County, involving about 1,160,852 cu. yds. excavation; 726 cu. yds. gravel backfill; 414,043 mi. yds. overhaul; 380,793 tons crushed gravel; 25,065 M gals. watering; 4,160 units rolling; 125,032 gals. liquid asphalt; 125,322 gals. emulsified asphalt; 3,532 lin. ft. corrugated metal pipe culverts; 746 lin. ft. structural plate pipe culvert; 100 lin. ft. relay pipe culverts; 2,692.6 lin. ft. Type "B" median curb; and other items. Project to be completed in 400 Calendar Days.
6. **I-ING 255(12) Unit 2**—Construction of one 280.5' steel and concrete bridge over the Union Pacific Railroad and one 118.0' steel and concrete bridge near Monida on the Idaho Line-Dillon Road in Beaverhead

County, involving about all L. Sum structural steel; 243 lin. ft. steel beam bridge rail; 123,225 lbs. reinforcing steel; 890.1 cu. yds. concrete; 1,425 cu. yds. structure excavation; 560 lin. ft. steel bridge rail; 27 each 45' prestressed beams; and 14 each 35' prestressed beams. Project to be completed by July 31, 1959.

7. S 32(8)—Grade, gravel surfacing, bituminous surface treatment, and drain 7.949 miles on the Glendive-Richey Road in Dawson County, involving about 130,735 cu. yds. excavation; 36 cu. yds. gravel backfill; 7,326 mi. yds. overhaul; 101,896 tons crushed gravel; 3,978 M gals. watering; 797 units rolling; 42,505 gals. liquid asphalt; 42,505 gals. emulsified asphalt; 722 lin. ft. corrugated metal pipe culverts; 12 lin. ft. structural plate pipe culverts; 284 lin. ft. relay pipe culverts; 108 hours blading; 72 hours scraping; and other items. Project to be completed in 180 Calendar Days.

8. S 96(3)—Grade, gravel surfacing, bituminous surface treatment, drain, and construction of one 50.0' treated timber bridge over Pondera Coulee on 8.067 miles on the Conrad-East Road in Pondera County, involving about 176,275 cu. yds. excavation; 100 cu. yds. gravel backfill; 33,318 mi. yds. overhaul; 115,206 tons crushed gravel; 4,920 M gals. watering; 874 units rolling; 43,803 gals. liquid asphalt; 43,803 gals. emulsified asphalt; 2,370 lin. ft. corrugated metal pipe culvert; 64 lin. ft. reinforced concrete pipe culverts; 92 lin. ft. relay pipe culverts; all L. Sum clearing and grubbing; 23.122 MBM treated timber; 0.778 MBM untreated timber; 560 lin. ft. treated timber piles; 574 lbs. structural steel; all L. Sum removal of existing structure & maintaining traffic ;and other items. Project to be completed in 200 Calendar Days.

9. S 190(3)—Grade, gravel surfacing, and drain 9.122 miles on the Presserville-Girard-Fairview Road in McCone County, involving about 184,412 cu. yds. excavation; 1,242 cu. yds. binder; 220 cu. yds. gravel backfill; 2,484 mi. yds. overhaul on binder; 10,086 mi. yds. overhaul; 56,847 tons crushed gravel; 3,871 M gals. watering; 337 units rolling; 2,214 lin. ft. corrugated metal pipe culverts; 148 lin. ft. structural plate pipe culverts; 206 lin. ft. relay pipe culverts; all L. Sum removal of two existing structures; and other items. Project to be completed in 150 Calendar Days.

10. S 197(3)—Grade, gravel surfacing, bituminous surface treatment, and drain 9.406 miles on the Scobey-Canadian Line Road in Daniels County, involving about 248,656 cu. yds. excavation; 1,280 cu. yds. riprap; 208 cu. yds. gravel backfill; 14,246 mi. yds. overhaul; 171,630 tons crushed gravel; 7,144 M gals. watering; 1,332 units rolling; 55,785 gals. liquid asphalt; 55,937 gals. emulsified asphalt; 1,900 lin. ft. corrugated metal pipe culverts; 214 lin. ft. structural plate pipe culverts; 96 lin. ft. relay pipe culverts; and other items. Project to be completed in 200 Calendar Days.

11. S 202(2)—Grade, gravel surfacing, bituminous surface treatment, and drain 7.507 miles on the Brockton-North Road in Roosevelt County, involving about 135,710 cu. yds. excavation; 59 cu. yds. gravel backfill; 7,171 mi. yds. overhaul; 115,139 tons crushed gravel; 4,328 M gals. watering; 793 units rolling; 40,799 gals. liquid asphalt; 40,799 gals. emulsified asphalt; 1,356 lin. ft. corrugated metal pipe culverts; 72 lin. ft. structural plate pipe culverts; 132 lin. ft. relay pipe culverts; all L. Sum removal of existing structures; and other items. Project to be completed in 180 Calendar Days.

12. S 310(5)—Grade, gravel surfacing, road-mix oiling, seal-coat oiling, and drain 1.675 miles on the Pendroy-Conrad Road in Teton County, involving about 21,128 cu. yds. excavation; 100 cu. yds. gravel backfill; 1,570 mi. yds. overhaul; 27,449 tons crushed gravel; 788 M gals. watering; 169 units rolling; 57,693 gals. liquid asphalt; 272 lin. ft. corrugated metal pipe culverts; 176 lin. ft. relay pipe culverts; 1.675 miles processing; 544 sq. yds. processing; and other items. Project to be completed in 150 Calendar Days.

13. S 362(4)—Grade, gravel surfacing, bituminous surface treatment, and drain 8.129 miles on the Lame Deer-Colstrip Road in Rosebud County, involving about 320,300 cu. yds. excavation; 100 cu. yds. gravel backfill; 16,548 mi. yds. overhaul; 110,689 tons crushed gravel; 6,995 M gals. watering; 1,199 units rolling; 44,417 gals. liquid asphalt; 44,417 gals. emuls. asphalt; 1,286 lin. ft. corrugated metal pipe culverts; 490 lin. ft. relay pipe culverts; all L. Sum clearing & grubbing; and other items. Project to be completed in 200 Calendar Days.

14. SPP 071-7512-01—The improvement consists of the lump-sum item for the revision of the water-supply system at the Lewis & Clark Cavern State Park in Jefferson County, consisting of the furnishing and the installation of a high-pressure water pump, chlorination system, float valve and water lines; and the construction of a filter system at the water source, reinforced concrete water tanks, pump house; and other work. Project to be completed by October 31, 1957.

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 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 Missoula, Montana.

Harry L. Burns, Chairman
Fred Quinnell, Jr.,
State Highway Engineer

5915—8-17, 24

GRADING, BRIDGE
BIDS CLOSE 10 a.m., AUGUST 27
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, August 13, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a.m. on August 27, 1957, for furnishing the material and performing the work for constructing 0.188 mile grading and a 95-foot reinforced concrete bridge, Oregon Forest Development Road Project Siskiyou 321-A, Coquille River Road, Lower Coal Creek Bridge, Siskiyou National Forest, Coos County, Oregon, involving 4,200 Cu. Yds. Excavation; 273 Cu. Yds. Concrete; 65,400 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, 753 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

5905—8-17

RANGER STATION RESIDENCE
BIDS CLOSE 2:30 P.M., P.S.T., AUGUST 19
U. S. Forest Service, Portland, Oregon
NOTICE TO CONTRACTORS

Sealed bids for construction of Lake Wenatchee Ranger Station Residence, Chelan County, Wenatchee National Forest, Washington, will be received until 2:30 p.m., August 19, 1957, by the Regional Supply Office, P. O. Box 4137, 729 N.E. Oregon Street, Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Wenatchee, Washington.

5902—8-7

DAM, POWER CONDUIT
BIDS CLOSE SEPTEMBER 10
Camp White, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4948) will be received at Camp White, near Medford, Oregon, until September 10, 1957, for furnishing labor and materials for Keene Creek Dam and Green Springs Power Conduit, Rogue River Basin Project, Oregon. Location 16 miles southeast of Ashland, Oregon, in Jackson County. Principal items are 280,000 cu. yds. excavation; 10,700 cu. yds. concrete; 158,000 cu. yds. embankment; and other work. The work is divided into 2 schedules. Completion time 600 days. For particulars, address Bureau of Reclamation, Box 386, Camp White, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5893—8-10

REINFORCED CONCRETE BRIDGE
BIDS CLOSE 10 A.M., AUGUST 23
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, August 9, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a.m. on August 23, 1957, for furnishing the material and performing the work for constructing a 55-foot reinforced concrete bridge Oregon Forest Development Road Project Willamette 1046-A, Upper Blowout Road, Lost Creek Bridge, Willamette National Forest, Linn County, Oregon, involving 70 Cu. Yds. Structure Excavation; 72 Cu. Yds. Concrete; 21,000 Lbs. Reinforcement Steel; and 112 Lin. Ft. Steel Bridge Railing. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon. B. M. French, Regional Engineer.

5904—8-10

REINFORCED CONCRETE BRIDGE
BIDS CLOSE 10 A.M., AUGUST 26
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, August 14, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 A.M. on August 26, 1957, for furnishing the material and performing the work for constructing a 144-ft. reinforced concrete bridge, Oregon Forest Development Road Project Willamette 1575-A, Frissel Creek Road, C. J. Buck Bridge, Willamette National Forest, Lane County, Oregon, involving 180 Cu. Yds. Structure Excavation; 240 Cu. Yds. Class A Concrete; 63,500 Lbs. Reinforcement Steel; 291 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, 753 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

5914—8-17

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., AUGUST 27
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, August 27, 1957, 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. Clearing, Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete, Installing an Illumination System and Constructing Two Reinforced Concrete Box Girder Bridges on 0.284 mile of Primary State Highway No. 1 in Whatcom County, SSH 1-B OVERCROSSING AND APPROACHES, FAP NO. I-001-5(17), involving about 77,580 cubic yards of Common Excavation, 21,400 tons of Selected Roadway Borrow, 1,365 cubic yards of Sand Borrow, 2,650 tons of Crushed Stone Surfacing, 33 tons of Asphalt Cement, 250 cubic yards of Crushed Cover Stone and Mineral Aggregate 3,710 tons of Asphaltic Concrete, 603 linear feet of Cement Concrete Gutter, 2,010 linear feet of Cement Concrete Curb and Gutter, 3,710 linear feet of Precast Traffic Curb, 1,283 linear feet of Concrete Pipe, 413 linear feet of Corrugated Metal Pipe, 569 linear feet of Corrugated Metal Structural Plate Pipe-Arch, 764 linear feet of Iron Pipe, 130 square yards of Cement Concrete Sidewalk, 250 cubic yards of Loose Riprap, 1,201 cubic yards of Concrete, 380,815 pounds of Steel Reinforcing Bars, 654 linear feet of Standard Bridge Rail, 8,400 linear feet of Timber Piling, 4,000 linear feet of Concrete Pile Extensions, a lump sum bid for Installation of Illumination System 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, Surfacing, Constructing a Light Bituminous Surface Treatment, Paving with Type I-1 Asphaltic Concrete and Installing Two Illumination Systems on 12.761 miles of Secondary State Highway No. 3-A in Yakima and Benton Counties, MABTON TO PROSSER, FAP No. F-048-1(1) and State Project, involving about 131,320 cubic yards of Common Excavation and Borrow, 52,220 units of Overhaul, 43,420 tons of Crushed Stone Surfacing and Crushed Cover Stone, 468 tons of Asphalt Cement, 15,470 tons of Asphaltic Concrete, 650 cubic yards of Mineral Aggregate, 22 cubic yards of Concrete, 3,036 linear feet of Concrete Pipe, 69 linear feet of Corrugated Metal Pipe-Arch, 176 linear feet of Welded Pipe, 2 lump sum bids for Installation of Illumination Systems and other items.
3. Clearing, Draining, Grading, Surfacing and Paving with Cement Concrete on 2.187 miles of a King County Road, EAST LAKE SAMMAMISH ROAD, FAS No. S-0370(2), involving about 41,360 cubic yards of Common Excavation, 1,400 cubic yards of Excavation of Unsuitable Material, 23,750 tons of Selected Roadway Borrow, 3,820 tons of Crushed Stone Surfacing, 100 tons of Asphaltic Concrete, 28,573 square yards of Cement Concrete Pavement, 12,-696 pounds of Pavement Reinforcement, 315 cubic yards of Concrete, 3,340 pounds of Steel Reinforcing Bars, 1,218 linear feet of Concrete Pipe, 124 linear feet of Corrugated Structural Plate Pipe, 1,356 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 98 Guide Posts, 24 cubic yards of Hand Placed Riprap and other items.
4. Clearing, Draining, Grading, Surfacing and Constructing a Light Bituminous Surface Treatment on 6.615 miles of an Adams and Franklin County Road, BOOKER-SCOOTENAY ROAD, FAS No. S-0973(1), involving about 122,920 cubic yards of Common Excavation and Borrow, 41,440 tons of Crushed Stone Surfacing, 222 tons of Asphalt Cement, 1,970 cubic yards of Crushed Cover Stone, 72 cubic yards of Mortar Rubble Masonry, 1,210 linear feet of Concrete Pipe, 100 linear feet of Corrugated Structural Plate Pipe and other items.
5. Clearing, Draining, Grading, Surfacing, Stockpiling Maintenance Rock, Sand and Mineral Aggregates and Constructing a Light Bituminous Surface Treatment on 2.831 miles of Primary State Highway No. 8 in Yakima County, THIRD CROSSING SATUS CREEK NORTH, a State Project, involving about 72,580 cubic yards of Common Excavation and Borrow, 30,410 tons of Crushed Stone Surfacing, Maintenance Rock, Sand, Mineral Aggregates and Crushed Cover Stone, 107 tons of Asphalt Cement, 32 cubic yards of Concrete, 3,730 pounds of Steel Reinforcing Bars, 525 linear feet of Concrete Pipe and other items.
6. Constructing a Timber Bridge and Reinforced Concrete Cribbing on 0.167 mile of Secondary State Highway No. 9-A in Clallam County, FALLS CREEK BRIDGE AND APPROACHES, a State Project, involving about 60 cubic yards of Common Excavation, 5,950 cubic yards of Selected Roadway Borrow, 160 cubic yards of Crushed Stone Surfacing, 45 cubic yards of Concrete, 7,630 pounds of Steel Reinforcing Bars, 21,344 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 75 MBM of Treated Timber and Lumber, 1,250 linear feet of Treated Timber Piling and other items.
7. Grading, Surfacing, Constructing a Cement Treated Base and Paving with Type I-1 Asphaltic Concrete on 0.789 mile of Primary State Highway No. 3 in Yakima County, CITY OF SUNNYSIDE, a State Project, involving about 2,400 cubic yards of Common Excavation, 3,150 tons of Crushed Stone Surfacing, 2,930 tons of Asphaltic Concrete, 14 tons of Asphalt Cement, 662 barrels of Portland Cement, 3,500 tons of CTB Aggregate and other items.
8. Draining, Grading, Surfacing and Constructing a Bituminous Surface Treatment Plant Mix Type F on 0.581 mile of Primary State Highway No. 21 in Kitsap County, SILVERDALE VICINITY, a State Project, involving about 2,510 cubic yards of Common Excavation, 3,435 tons of Crushed Stone Surfacing, 20 tons of Asphalt Cement, 130 cubic yards of Mineral Aggregate, 3,330 tons of Bituminous Plant Mix, 510 linear feet of Precast Traffic Curb, 87 linear feet of Concrete Pipe, 20 linear feet of Corrugated Structural Plate Pipe, 25 linear feet of Beam Guard Rail and other items.
9. Draining, Grading, Surfacing, Paving with Type I-1 Asphaltic Concrete and Installing an Illumination System on Primary State Highway No. 1 in Cowlitz County, 12TH STREET OFF-CONNECTION IN KELSO, a State Project, involving about 10,570 cubic yards of Common Excavation and Borrow, 760 cubic yards of Selected Roadway Borrow, Crushed Stone Surfacing and Mineral Aggregate, 360 tons of Asphaltic Concrete, 610 linear feet of Cement Concrete Curb and Gutter,, 850 linear feet of Mountable Cement Concrete Curb, 153 linear feet of Concrete Pipe, 384 linear feet of Corrugated Metal Pipe, a lump sum bid for Installation of Illumination System and other items.
10. Paving with Type I-1 Asphaltic Concrete on 2.506 miles of Primary State Highway No. 2 in King County, TOKUL CREEK VICINITY, ET AL, a State Project, involving about 750 cubic yards of Crushed Stone Surfacing, 4,765 tons of Asphaltic Concrete, 23 tons of Asphalt Cement and other items.
11. Paving with Type I-1 Asphaltic Concrete on 3.701 miles of Primary State Highway No. 2 in King County, OLALLIE CREEK TO SUMMIT, a State Project, involving about 400 cubic yards of Crushed Stone Surfacing, 1,190 tons of Asphaltic Concrete, 5,530 linear feet of Asphaltic Concrete Curb, 362 linear feet of Corrugated Metal Pipe and other items.
12. Constructing Non-Skid Seal Treatment and Light Bituminous Surface Treatment on 27.93 miles of Secondary State Highways Nos. 1-A and 1-D in King, Snohomish, Skagit and Island Counties, WOODINVILLE TO SNOHOMISH COUNTY LINE, ET AL, a State Project, involving about 838 tons of Asphalt Cement, 9,440 cubic yards of Mineral Aggregate and Crushed Cover Stone and other items.
13. Constructing Three Timber Bridges on 0.050 mile of Primary State Highway No. 5 in Pierce County, BRIDGES NOS 5-EF/107, 5-EF/108 AND 5-EF/109, a State Project, involving about 83 MBM of Treated Timber and Lumber, 75 tons of Bituminous Mix, 29 cubic yards of Concrete and other items.
14. Draining and Grading on 0.376 mile of Secondary State Highway No. 9-A in Clallam County, EAST BOUNDARY INDIAN RESERVATION TO SEKIU RIVER, a State Project, involving about 4,800 cubic yards of Common Excavation, 21 linear feet of Concrete Pipe, 4,600 cubic yards of Loose Riprap, 70 cubic yards of Hand Placed Riprap and other items.
15. Replacing and Reconstructing Fenders on Primary State Highway No. 14 in Pierce County, TACOMA NARROWS BRIDGE, a State Project, involving about 145 MBM of Timber and Lumber and 2,-500 pounds of Replacing Existing Fender Hardware.
16. Installing an Illumination System on Primary State Highway No. 10 in Chelan County, KNAPPS HILL TUNNEL, a State Project, involving a lump sum bid for Installation of Illumination System.

W. A. BUGGE, Director of Highways
E. A. COWELL, Chairman

5908—8-10, 17

CONVENTION CENTER
BIDS CLOSE 4 P.M., OCTOBER 3
Las Vegas, Nevada
NOTICE TO CONTRACTORS

Subject to the conditions prescribed by the undersigned, sealed bids are invited for LAS VEGAS CONVENTION CENTER, LAS VEGAS, NEVADA.

Plans, information and specifications will be available on 12 August, 1957, at the Clark County Court House, Room 209, Las Vegas, Nevada.

A deposit of $100.00 made payable to the Clark County Fair and Recreation Board, is required for each set of plans and specifications issued (with a maximum fo five sets to each bidder). Sealed bids are to be returned to the Clark County Court House, Room 209, Las Vegas, Nevada. No bids will be received after 3 October, 1957, at 4:00 P.M., Pacific Standard Time. The right to reject any and all bids is reserved.

Plans and specifications were prepared by Adrian Wilson and Associates, Architects and Engineers, 816 West Fifth Street, Los Angeles, California.

CLARK COUNTY FAIR AND RECREATION BOARD

5899—8-10, 17, 24

SEWAGE COLLECTION SYSTEM, PUMPING PLANT
BIDS CLOSE 7:30 P. M., M.D.T., SEPT. 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., M.D.T., on the 3rd day of September, 1957, 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: 32,208 cubic yards excavation 4,300 feet 4" sewer, 30,975 feet 8" sewer, 1,900 feet 10" sewer, 1,436 feet 12" sewer, 912 feet 15" sewer, 1,300 feet 18" 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, 1207 North Washington, Spokane, Washington and 129 Southwest Third Ave., 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 forty-five (45) days or to reject any and all bids and 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.

5907—8-10, 17, 24

JAIL ADDITION
BIDS CLOSE 2 P.M., AUGUST 23
Klamath Falls, Oregon
NOTICE TO CONTRACTORS

Sealed bids will be received on or before 2 p.m., Friday, August 23, 1957, at the office of the Klamath County Court, County Courthouse, Klamath Falls, Oregon.

This bid will be for the erection of the Third Floor Addition to Klamath County Jail, Klamath Falls, Oregon. A general bid will include all items of work, excluding jail equipment. 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, 203 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 surety bond in full amount 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 Klamath County Court reserves the right to accept or reject any and all bids and to waive any informalities.

BY ORDER KLAMATH COUNTY COURT
Charles F. DeLap, County Clerk

5894—8-3, 7, 14

BREAKWATER
BIDS CLOSE 10 A.M., SEPTEMBER 11
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-290, Boat Harbor, Haines, Alaska, August 7, 1957. Haines Small Boat Harbor, Section I, Rock Breakwater, Project Aaa. 50-A-290. Haines, 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, September 11, 1957 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. Information regarding bidding material, bid guarantee, and bonds. 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.; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, Third Ave. West and Harrison St., Seattle, Wash.; Mountain Chapter, 219 Benjamin Franklin Hotel, 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-290. The construction of a rock breakwater, consisting of approximately 35,608 cu. yds. NOTE: An opportunity will be given in the bid documents of this project and Project Aaa. 50-A-261. Skagway Boat Harbor, to permit a reduction in the bids, should both projects be awarded to the same contractor. 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.

5912—8-17, 24, 31

ROCK BREAKWATER
BIDS CLOSE 10 A.M., SEPTEMBER 11
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-261,Boat Harbor, Skagway, Alaska, August 7, 1957. Skagway Small Boat Harbor, Section I, Rock Breakwater, Project Aaa. 50-A-261, Skagway, 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 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, September 11, 1957, 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. Information regarding bidding material, bid guarantee, and bonds; 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.; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, Third Ave. West and Harrison St., Seattle, Wash.; Mountain Chapter, 219 Benjamin Franklin Hotel, 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-261. The construction of a rock breakwater, consisting of approximately 18,507 cu. yds. NOTE: An opportunity will be given in the bid documents of this project and Project Aaa. 50-A-290. Haines Boat Harbor, to permit a reduction in the bids should projects be awarded to the same contractor. 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.

5911—8-17, 24, 31

INSTALL JAIL EQUIPMENT
BIDS CLOSE 2 P.M., AUGUST 23
Klamath Falls, Oregon
NOTICE TO CONTRACTORS

Sealed bids will be received on or before 2 p.m., Friday, August 23, 1957, at the office of the Klamath County Court, County Courthouse, Klamath Falls, Ore.

This bid will be for the installation of jail equipment in the third flood additions to Klamath County Jail, Klamath Falls, Oregon. 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 on page 225, Laws of Oregon, 1951.

Plans and specifications may be obtained at the offices of Morrison and Howard, 203 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 surety bond in full amount 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 Klamath County Court reserves the right to accept or reject any and all bids and to waive any informalities.

BY ORDER KLAMATH COUNTY COURT
Charles F. DeLap, County Clerk

5895—8-3, 7, 14

WATER SUPPLY PROJECT
BIDS CLOSE 8 P. M., SEPTEMBER 18
Oregon City, Oregon
NOTICE TO CONTRACTORS

Sealed proposals for furnishing all materials, equipment, labor, and services of all kind for the construction of a Water Supply Project for the South Fork Water Board which supplies water to the cities of Oregon City and West Linn, Oregon, will be received at the office of the Secretary until 8:00 P.M., P.S.T., on the 18th day of September, 1957, and immediately thereafter said proposals will be publicly opened and read. A Contract will be awarded or bids will be rejected within thirty (30) days after their opening.

The project consists of a raw water intake and pumping staiton, a water purification works having a nominal capacity of 10 MGD, a water pumping station on Division Street in Oregon City and the pipe line work to connect the facilities and transport water to a reservoir in Oregon City. The

project is divided into four contracts: Contract No. 1, Raw Water Intake Structure and Pumping Station; Contract No. 2, Water Purification Works; Contract No. 3, Division Street Pumping Station; and Contract No. 4, Pipe Line Work.

Plans and Specifications may be examined at the office of the Secretary of the South Fork Water Board, City Hall, Oregon City, Oregon, or at the office of Stevens & Thompson, Consulting Engineers, 2234 S.W. Fifth Avenue, P. O. Box 508, Portland 7, Oregon.

Prospective bidders must prequalify as required by the Oregon Statutes. Prequalification blanks may be obtained from the Engineers or the bidders may use the regular AGC form for such purpose.

Copies of said plans and specifications may be obtained upon application to the Engineers accompanied by a deposit of $100.00, for the first set and $50.00 per set for each additional set of plans and specifications. The deposit for the first set will be refunded in full to any depositor who submits a bona fide bid and returns the plans within ten (10) days after the bid opening or who returns said plans and specifications in good condition within seven (7) days after receiving them, otherwise only one-half of the said deposit will be refunded when the documents are returned. For additonal sets after the first only one-half of the original deposit of $50.00 will be refunded when the documents are returned provided they are returned within ten (10) days after the bids are opened.

All proposals must be submitted on the regular forms furnished with the specifications and each must be accompanied by cash, certified check, or bid bond in an amount not less than five per cent (5%) of the total bid. A corporate surety bond in the full amount of the contract(s) will be required to guarantee its (their) faithful performance.

The South Fork Water Board reserves the right to reject any or all bids, waive informalities, or to accept any bid or combination thereof which appears to serve the best intests of the Owner.

By order of the South Fork Water Board.
ZELLA BOWERS,
Secretary.

5909—8-13, 27

SEWER EXTENSIONS
BIDS CLOSE 10 A.M., P.S.T., SEPTEMBER 4
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-291, Sewer Extensions, Anchorage, Alaska, August 2, 1957. Sewer Extensions, Fourth Addition Area, Project Aaa. 50-A-291, 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, September 4, 1957, 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. Information regarding bidding material, bid guarantee, and bonds: 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-291, Sewer Extensions, Anchorage, Alaska Schedule I—Basic Bid 4,157 lineal feet of 14-inch diameter asbestos-cement sewer pipe or 4,157 lineal feet of 15-inch diameter concrete pipe, 1,023 lineal feet of 10-inch diameter sewer pipe, 2,705 lineal feet of 8-inch diameter sewer pipe, 400 lineal feet of 6-inch diameter sewer pipe, 26 standard manholes, one cleanout and 58 service connections. Schedule II—Basic Bid 6,006 lineal feet of 8-inch diameter sewer pipe, 17 standard manholes and 15 service connections.

5900—8-10, 17, 24

INDUSTRIAL ARTS SHOP BUILDING
BIDS CLOSE 8 P. M., AUGUST 21
Vashon Island, Washington
NOTICE TO CONTRACTORS

1. 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, August 21, 1957, at 8:00 P.M., for the General Contract which includes mechanical and electrical work for the construction of an Industrial Arts Shop Building at Vashon High School, 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, 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.
3. 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. Planholders 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 foreit the full amount of their deposit.
4. 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.

5891—7-31; 8-7, 14

CHURCH
BIDS CLOSE 8 P. M., AUGUST 28
Klamath Falls, Oregon
NOTICE TO CONTRACTORS

Sealed bids will be received on or before 8 p. m. on Wednesday, August 28, 1957, at the residence of the Rev. Father George Murphy, 4501 Briston Avenue, Klamath Falls, Oregon. This bid will be for the erection of a new school and parish hall.

Basic bid shall be the parish hall and boiler room complete with entry, kitchen and toilet rooms partially completed as noted on drawings. Alternate bid shall be for the office, classrooms, corridor and covered walk completed to the extent indicated on the drawings. Building will be located on church property along Bristol Avenue near Wiard Street in Klamath Falls.

A general bid shall include all items of work except glued-laminated beams and hollow clay wall tile. These materials will be furnished by the owner. Bids will be publicly opened and read.

Plans and specifications may be obtained at the offices of Morrison and Howard, architects, 203 Williams Building, Klamath Falls. A deposit of $25 will be required for plans and specifications. The deposit will be refunded to the bdider upon return of the plans and specifications in good condition. Plans and specifications on file at builders exchanges at Portland, Eugene, Sacramento and San Francisco.

The successful bidder will be required to furnish a surety bond in full amount of the contract price and he shall be required to carry public liability insurance as specified. A bidder's 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 of the execution of the contract and bonds in case the contract is awarded to the bidder.

The owners reserve the right to accept or reject any and all bids and to waive any informalities.

5910—8-13, 20

SCHOOL BUILDINGS
BIDS CLOSE 3 P.M., P.S.T., AUGUST 29
Pullman, Washington
NOTICE TO CONTRACTORS

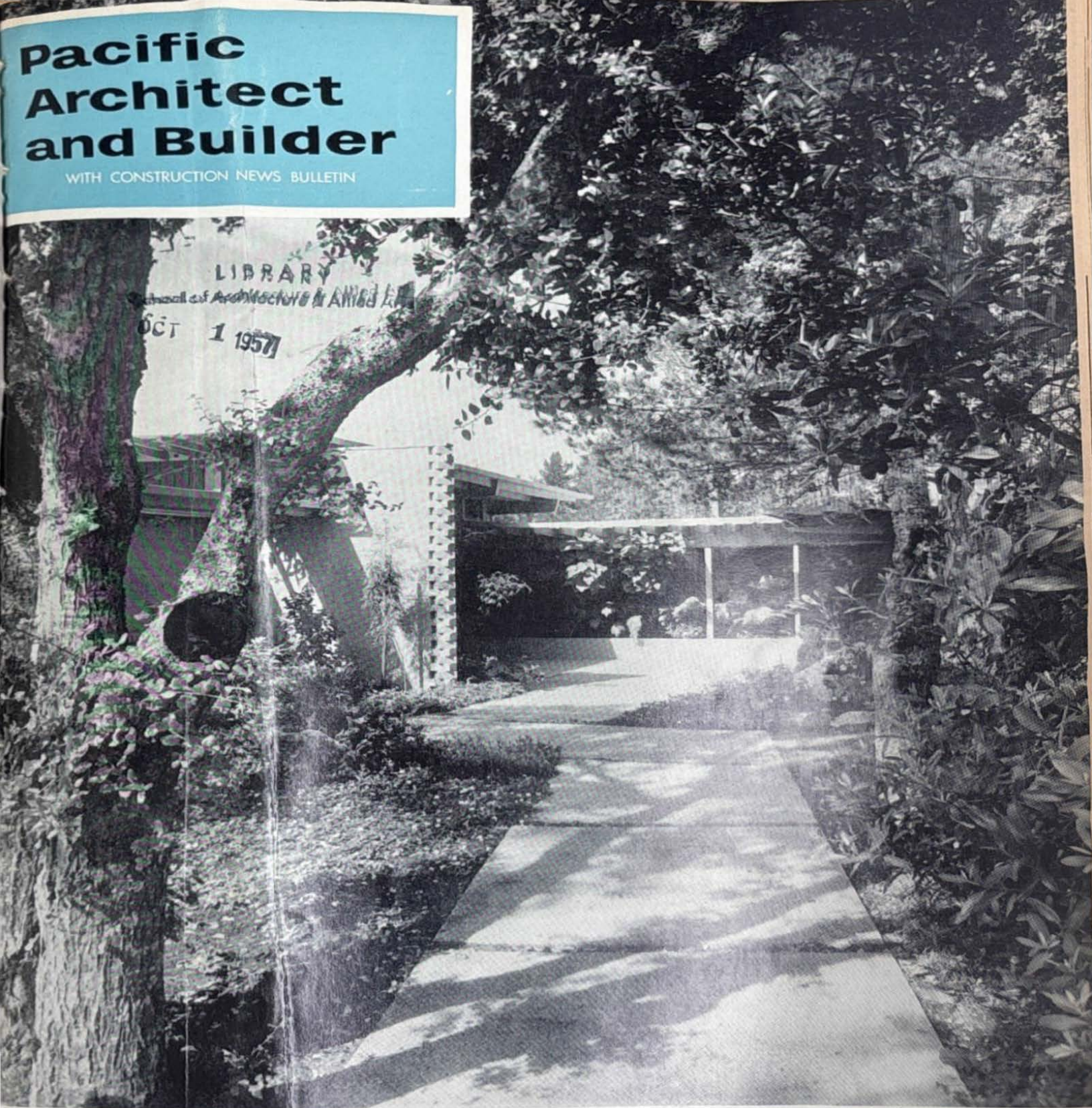
1. NOTICE TO CONTRACTORS
Sealed bids will be received by Pullman Public Schools, District #307, at the office of the Architect, McClure & Adkison, 707 Sherwood Building, Spokane, Washington, until 3:00 P.M., P.S.T., August 29, 1957, for
(a) General Contract,
(b) Mechanical Contract, and
(c) Electrical Contract,
separately, for the construction of Military Hill Elementary School, 8 classrooms, M.P. and kitchen, and/or an addition to Franklin Elementary School, 4 classrooms, cafeteria and kitchen, Pullman, 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.
2. BID DOCUMENTS
Specifications, including bid and contract documents, and drawings, may be examined at the office of the Architect, at the Associated General Contractors of America, Eastern Washington Builders Chapter, Spokane Construction Council, Spokane, Washington. Bonafide bidders may obtain one set each of General, Mechanical and Electrical plans and specifications at the Architect's office upon deposit of a check payable to the Architect in the amount of $25.00 for each set of General plans and specifications and $15.00 for each set of Mechanical or Electrical plans and specifications. Should a bidder wish additional sets or parts of sets, he may obtain them by paying the cost of reproduction.
3. REFUND 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 bonafied bid and do not return the documents at least 10 days before the time set for opening bids will forefeit the full amount of their deposit.
4. RIGHT TO REJECT BIDS
The Owner reserves the right to reject any and all bids and to waive informalities.
BY ORDER OF:
PULLMAN PUBLIC SCHOOLS
DISTRICT NO. 307
Pullman, Washington
By Ruth Gleason, Clerk

5903—8-8, 14, 21

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

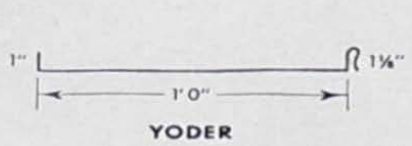
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School of Architecture & Allied Arts
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THE BUILDING AND THE SITE
—house, power utility service center, motel

A public rel[illegible] talks about publicity

SEPTEMBER 1957



YODER

In addition to press brake fabrication described below, Fentron Industries often use the Yoder (continuous) method in which roof sections are made to any length and standing seams are crimped together for greater strength.



PRESS BRAKE



Steel roof decking...durable, strong and economical

Fentron Industries of Seattle, Washington, has found USS Steel Sheets ideal for low-cost and reliable roof deck construction. The service station canopy roof above, formed and installed by Fentron, is fabricated from 18-gauge USS Sheets by the press brake method and plug-welded every 18 inches. Sections are one-foot wide in nine-foot spans with two-and-one-half inch standing seams that interlock on installation; leak-proof against wind and water. This roof decking has withstood test loads of 55 lbs. per sq. foot, without distress . . . good overhead insurance under the snow loads in Washington winters.

Steel roof decking is durable, strong and costs less to install. Other materials require more weight, additional construction time and greater cost to equal the strength and carrying capacity of steel.

Whether you build service stations, industrial plants or homes, we'll be happy to direct you to steel decking fabricators who will provide you with additional information and specifications.

Specify USS—One Source for All Steels

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120 Montgomery Street, San Francisco 6

USS

UNITED STATES STEEL

Pacific Architect and Builder

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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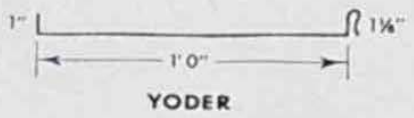
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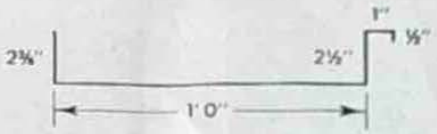
THE COVER

Dr. Donald Hutton Residence, Menlo Park, Calif. (p. 8). Goodwin B. Steinberg, Architect; Phil Palmer photo.

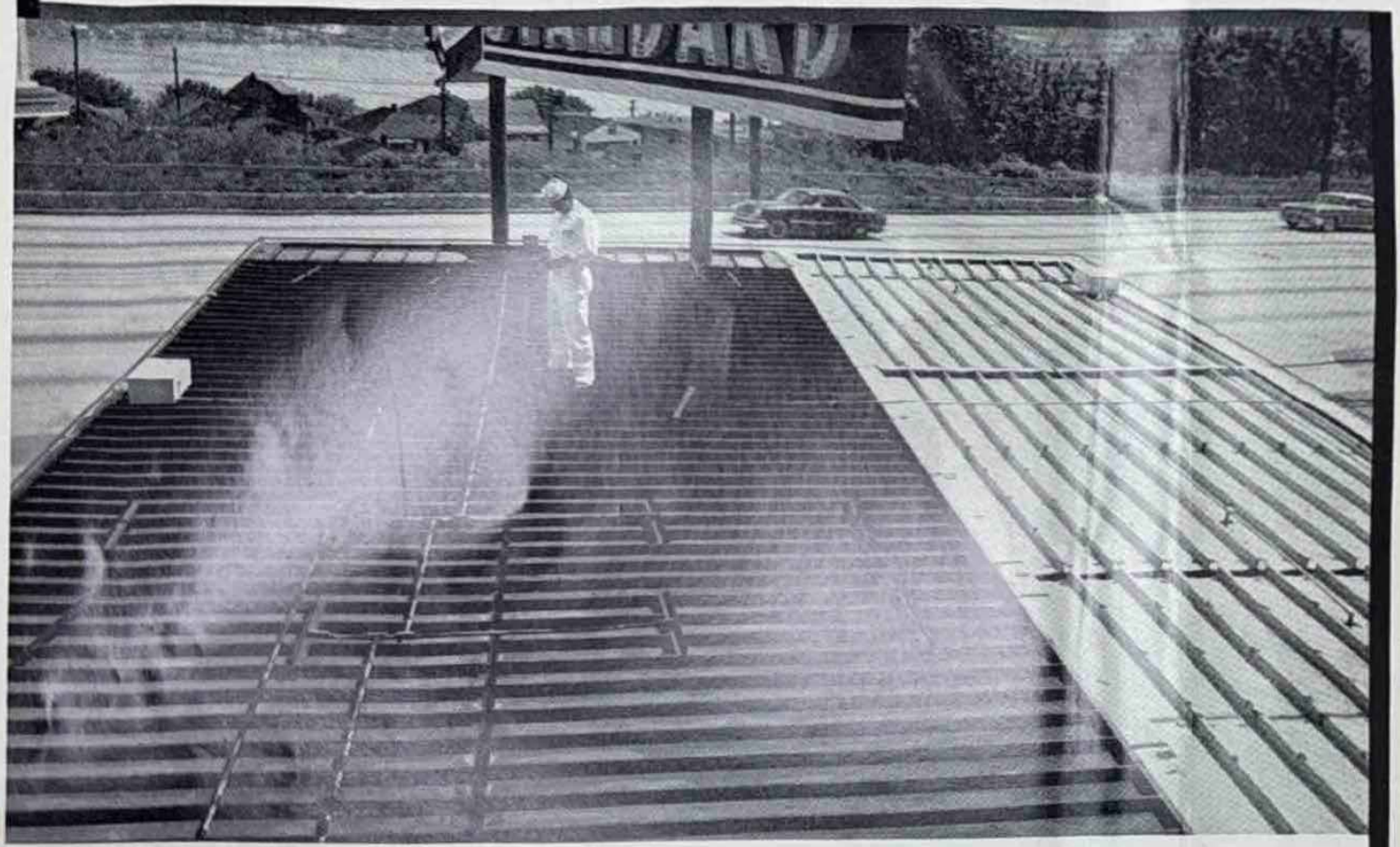


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UNITED STATES STEEL

Pacific Architect and Builder

VOLUME 63, NUMBER 9 SEPTEMBER 1957

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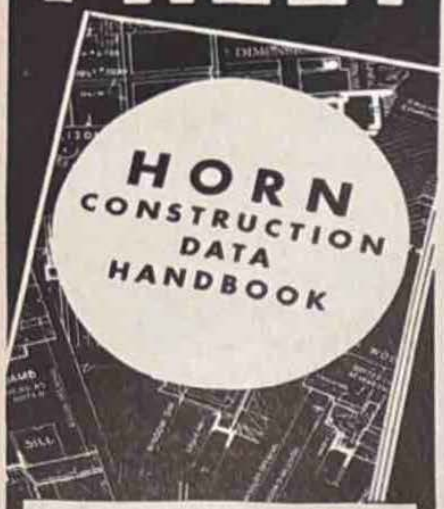
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THE COVER

Dr. Donald Hutton Residence, Menlo Park, Calif. (p. 8). Goodwin B. Steinberg, Architect; Phil Palmer photo.

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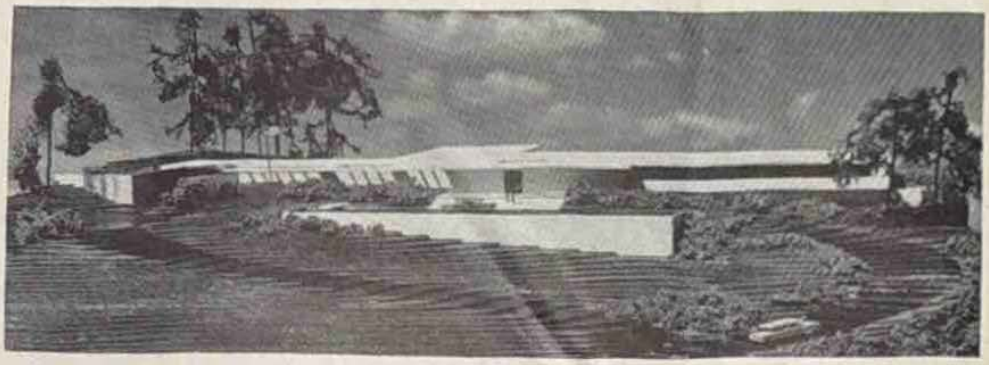
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West Coast architects design abroad



RESIDENCE FOR U. S. AMBASSADOR TO CHILE: Paul Thiry, architect.

In Santiago, Chile

Instead of drawing upon the European heritage of the Chileno in designing a residence for the U. S. ambassador to Chile, architect Paul Thiry of Seattle has looked for his inspiration to the culture of the ancient Andean civilizations. The structure will be a contemporary expression of their indigenous architecture of walls and terraced hillsides.

To be located in suburban Santiago adjoining the city's fashionable golf club, the residence will be sited atop a ridge within a valley bordered on the north and northeast by the towering Andes.

The state reception and dining rooms, the ambassador's private apartments and the servants' quarters are dispersed around a large patio with fountain. Because of the one-story plan, the ambassador and his family have access to the patio and gardens instead of being isolated on upper floors as has been customary in buildings of this type. Although the building maintains a residential scale, it can, by implementation of formal rooms, patio and gardens, easily accommodate large groups of people.

Structurally, the building will be of earthquake-resistant monolithic concrete and can be opened by means of glass sliding doors and screens.



U. S. EMBASSY BUILDING IN PAKISTAN: Richard J. Neutra and Robert E. Alexander, architects.

In Karachi, Pakistan

Construction has started this summer in Karachi on one of the largest U. S. embassy office buildings in the world and the only one in which the host country will assume a share of the cost. Designed by Los Angeles architects Richard J. Neutra and Robert E. Alexander, Pakistan will pay half the cost of the project, estimated to cost $1.3 million.

A reflecting pool will dramatize the entrance to the 62,000-sq. ft. reinforced concrete structure which will be built in the heart of the city facing the Frere Gardens, the only green spot in the desert capital. It will have a reinforced concrete reservoir located below the basement, a 10,000-gal. tank and other mechanical equipment in a penthouse and an adjoining 16,000-sq. ft. concrete warehouse.

Besides normal embassy functions, plans call for office space to house the U. S. Information Service, with film distribution center and printing plant, the Foreign Operations Program and the Military Assistance Program, as well as other functions.

Briefly noted . . .

• Architect Minoru Yamasaki of Detroit and landscape architect Lawrence Halprin of San Francisco have been selected as out-of-state consultants for Seattle's proposed Civic Center and World's Fair. Yamasaki is a graduate of the University of Washington.

• "Designing the Next 100 years" will be the theme of the annual convention of the American Society of Industrial Designers to be held October 17-20 at the Ojai Valley Inn, Ojai, Calif. Among the speakers will be architect Charles Luckman of Los Angeles.

• Demolition work is underway on the 20-acre site on which Portland will erect its $8 million Exposition-Recreation Center.

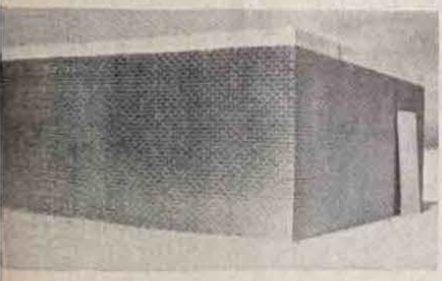
• Beverly Hills, Calif., plans to build a museum with the profits from a movie, but just what kind of film it might be has not been disclosed.

• A newly appointed Building Research Advisory Board Committee formed to advise the FHA on its technical studies program has one West Coast member, Charles D. Clark, land planning consultant of Los Angeles.

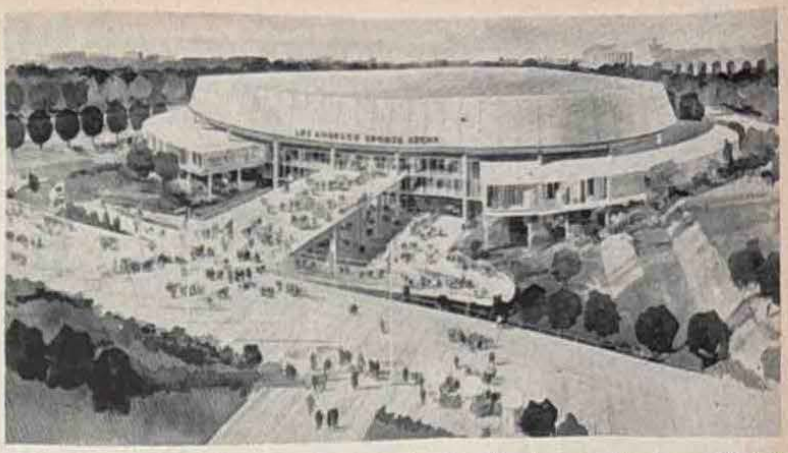
Windowless brick school survives atomic blast

A full-size reinforced brick school structure successfully withstood the effect of an atomic blast during the recent Plumbob nuclear test series in Nevada, the Federal Civil Defense Administration has reported.

Designed by the Structural Clay Products Research Foundation, the 32x28 ft. windowless building was constructed with 10-in. reinforced brick walls and a reinforced concrete roof. This classroom planned for 30 students would have afforded a high degree of protection to its occupants in 75% of the blast area.



WINDOWLESS CLASSROOM UNIT withstands effect of atomic blast in recent test.



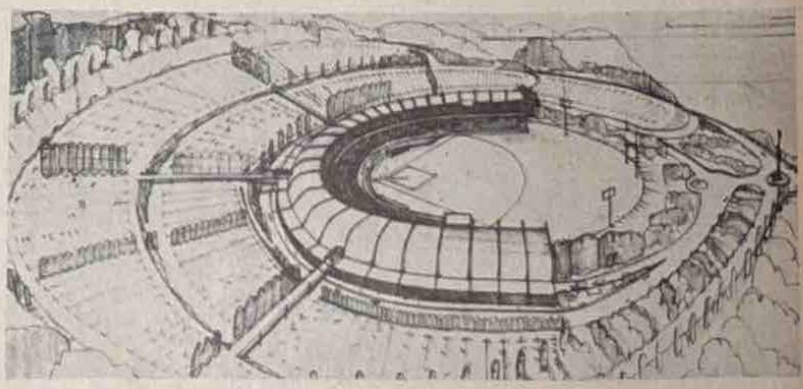
SPORTS ARENA IN LOS ANGELES for which more than $5 million in revenue bonds were floated.

Mammoth indoor arena planned for Los Angeles

Prelminary plans for one of the largest indoor sports arenas in the country have been presented to the Los Angeles Memorial Coliseum Commission by the architectural firm of Welton Becket & Associates.

The project provides seating for 16,000 persons at ice hockey games or 18,432 for basketball and 19,320 for boxing, by use of temporary seating on a lower level. The elliptically shaped arena could seat a maximum of 30,000 for conventions when the entire lower level is filled with seats. The entire structure will be of fireproof reinforced concrete and structural steel, free of any columns within the seating area.

A controversy centering around the project reached a high point last March when the commission discharged Stiles O. and Robert Clements because of high bids on their plans. The architects now have a $374,000 lawsuit against the commission and the latter has countercharged with a suit for about the same amount.



FROM POLO GROUNDS TO BAYVIEW PARK: Giants will get new home when they come to San Francisco next season. Precast concrete sections are now being designed.

Big league baseball means new stadium for Bay

Proposed stadium for big league baseball in San Francisco, with the transfer of the New York Giants set for next spring, will have seating for 40,000 fans and parking for 10,000 cars. The overall scheme has been developed by architect John S. Bolles, consulting engineer E. Elmore Hutchison and contractor Charles Harney.

The project will cost about $12 million, $5 million of which will be furnished by the city and the balance by Harney and associates. It will be located on the northeasterly slope of Candlestick Point, with access from Bayshore Freeway, Third Street and adjacent and contiguous streets to be widened by the city to serve both the stadium and the area in the Bay to be reclaimed by the Hunters Point Reclamation District.

Upon signing of the contract, about two million cubic yards of earth will be taken from the hill within 60 days in what will be the largest earth-moving job in the history of the Bay area. Part of the earth will be used for the parking area and the balance as fill in the Bay to provide 100 acres of the 500 to be developed.

August volume lags behind same month last year

Building volume in the five western states dropped to $199,615,437 in August. The total, as reported by 116 building permit agencies, is $47 million below the same period last year.

On a statewide basis California dropped $38 million; Washington, $6¾ million; Oregon, $1½ million; and Montana, $1 million. Idaho showed a slight increase over August 1956.

Compared to the previous month, the August volume was down $13¼ million. Idaho and Washington reported increases over July, while the other three states reported decreases.

Here is the box score for the year so far:

	Jan.-Aug. 1957	Jan.-Aug. 1956
California	$1,341,449,807	$1,474,164,000
Oregon	83,777,027	100,504,217
Washington	189,548,174	223,556,066
Montana	16,853,824	20,814,764
Idaho	16,084,520	16,887,906

As the tabulation shows, all states are running behind the cumulative totals for last year. The dollar volume for the first eight months is $1,647,713,352, down $188,213,601 from the total at the same time in 1956.

Following is the breakdown of building permits issued for new buildings and additions by several of the major agencies during August. (First number in each category refers to number of permits, not number of units.)

ANALYSIS OF TYPICAL AREAS—AUGUST

	DWELLING	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	58 ($ 987,450)	20 ($ 850,300)	5 ($ 286,985)
King Co.	524 (5,246,530)	51 (336,945)	8 (617,400)
Seattle	602 (3,957,632)	167 (4,107,082)	1 (4,000)
Tacoma	84 (258,480)	45 (435,230)	3 (2,685,000)
Los Angeles Co.	1915 (13,701,260)	389 (4,619,400)	29 (795,250)
Orange Co.	334 (3,756,899)	44 (589,595)	2 (55,000)
Sacramento Co	246 (3,465,239)	79 (594,943)	11 (4,139,977)

Building Permit Totals for 116 Western Agencies for August 1957

CALIFORNIA	August 1957	July 1957	August 1956
Alameda County	$ 1,490,800	$ 1,792,200	$ 2,772,900
Anaheim	1,279,555	1,167,523	4,047,762
Bakersfield	2,213,855	571,820	1,567,838
Burbank	1,348,516	829,394	1,438,665
Contra Costa County	2,507,908	2,450,653	2,725,636
Fresno	1,025,804	6,209,446	2,009,107
Fullerton	1,506,476	1,449,180	1,186,035
Glendale	2,149,749	1,030,755	1,047,191
Inglewood	527,695	753,074	1,156,448
Long Beach	3,776,580	3,420,295	3,227,425
Los Angeles	43,842,730	42,148,490	49,422,515
Los Angeles County	20,052,767	20,779,129	37,648,177
Oakland	4,345,719	4,233,857	3,748,369
Ontario	1,707,454	581,306	1,582,283
Orange County	4,616,581	5,624,514	11,333,746
Palo Alto	2,664,884	2,280,437	3,086,078
Pasadena	1,026,772	1,567,083	1,852,479
Pomona	3,063,230	2,761,165	1,327,318
Richmond	809,834	418,100	2,428,434
Riverside	1,323,470	646,352	1,536,557
Sacramento	2,405,909	1,848,315	2,768,367
Sacramento County	8,424,874	6,479,712	7,660,009
San Bernardino	2,124,346	1,058,321	1,958,913
San Bernardino County	4,411,589	21,986,737	9,440,459
San Diego	12,006,038	7,443,067	6,662,540
San Diego County	4,387,000	4,992,400	3,965,900
San Francisco	4,904,923	8,838,234	3,846,308
San Jose	5,667,910	5,391,345	3,883,778
San Mateo	541,751	922,080	1,085,919
San Mateo County	3,463,918	1,752,912	2,372,088
Santa Ana	1,233,238	1,458,834	4,172,150
Santa Monica	1,489,188	897,300	906,741
Stockton	750,151	1,952,428	755,360
Sunnyvale	1,250,150	1,675,125	2,890,098
Torrance	1,487,701	1,819,471	4,276,291
West Covina	992,662	722,297	3,108,460
TOTAL	$156,821,727	$169,953,351	$194,898,344

OREGON	August 1957	July 1957	August 1956
Albany	$ 121,750	$ 80,475	$ 107,672
Astoria	28,957	58,518	104,709
Baker	145,935	67,080	29,682
Bend	84,874	482,525	112,030
Coos Bay	183,220	138,850	197,195
Corvallis	348,405	343,385	318,101
Eugene	407,984	480,383	1,621,738
Grants Pass	25,420	108,500	106,175
Gresham	59,100	308,781	31,050
Hillsboro	60,215	167,366	54,775
Klamath Falls	285,172	148,325	409,999
LaGrande	431,615	41,045	48,280
Lane County	1,801,910	930,057	791,990
Medford	202,715	218,279	157,986
Multnomah County	1,719,800	3,373,328	2,165,612
North Bend	233,359	48,359	1,143,022
Oregon City	76,005	16,061	26,263
Pendleton	73,765	139,150	293,590
Portland	4,143,105	4,377,650	3,868,195
Roseburg	56,040	610,331	62,451
Salem	812,126	161,965	870,667
Springfield	59,875	212,430	194,682
The Dalles	26,790	72,800	78,100
TOTAL	$ 11,388,137	$ 12,585,643	$ 12,793,964

WASHINGTON	August 1957	July 1957	August 1956
Aberdeen	$ 61,936	$ 92,601	$ 70,991
Anacortes	360,745	26,000	119,555
Auburn	58,600	266,400	80,075
Bellingham	343,599	1,111,803	337,028
Bremerton	129,815	190,565	130,870
Centralia	54,300	73,796	55,678
Chehalis	80,740	17,124	34,876
Clarkston	61,629	151,425	73,490
Ellensburg	36,035	146,977	129,440
Ephrata	14,295	28,670	61,925
Everett	133,993	315,840	1,162,853
Kelso	29,700	32,550	35,500
Kennewick	97,610	55,360	123,285
King County	6,248,625	6,305,640	6,781,965
Kirkland	63,664	113,720	79,800
Longview	169,604	427,826	268,390
Moses Lake	198,980	88,749	162,008
Olympia	481,987	122,950	122,067
Pasco	98,706	55,225	93,385
Pierce County	1,235,215	1,327,554	1,662,504
Port Angeles	15,230	37,550	754,352
Puyallup	145,275	89,550	147,975
Ritzville	2,500	4,200	33,550
Seattle	8,120,138	8,571,045	14,009,085
Shelton	6,400	197,200	19,600
Spokane	2,015,479	2,063,637	2,398,360
Spokane County	2,264,568	1,175,743	2,305,659
Sumner	61,200	39,050	13,900
Tacoma	3,662,920	1,431,742	1,854,753
Vancouver	410,347	452,972	692,135
Walla Walla	51,094	94,137	116,230
Wenatchee	142,744	413,211	300,470
Yakima	876,401	520,307	301,586
TOTAL	$ 27,734,074	$ 26,041,119	$ 34,533,340

MONTANA	August 1957	July 1957	August 1956
Billings	$ 191,200	$ 186,700	$ 276,400
Bozeman	40,900	38,900	69,000
Butte	166,504	101,542	75,079
Glasgow	69,900	404,465	16,825
Glendive	74,734	167,700	37,800
Great Falls	296,297	606,231	483,884
Helena	252,225	325,474	977,127
Kalispell	81,500	93,700	128,850
Lewistown	9,300	74,145	23,900
Livingston	45,827	46,775	35,338
Miles City	43,875	23,460	52,136
Missoula	80,050	50,700	129,600
TOTAL	$ 1,352,312	$ 2,119,792	$ 2,305,939

IDAHO	August 1957	July 1957	August 1956
Boise	$ 332,350	$ 466,564	$ 338,396
Caldwell	29,750	35,610	221,925
Coeur d'Alene	117,760	68,350	111,300
Idaho Falls	732,630	475,275	695,840
Jerome	23,100	9,885	18,300
Lewiston	145,745	107,837	111,830
Nampa	49,382	152,590	108,650
Payette	1,710	2,975	56,650
Pocatello	707,625	676,968	208,434
Sandpoint	7,200	41,050	13,300
St. Maries	6,000	1,000	14,000
Twin Falls	165,935	231,950	231,050
TOTAL	$ 2,319,187	$ 2,270,054	$ 2,129,675
GRAND TOTAL	$199,615,437	$212,969,959	$246,661,262



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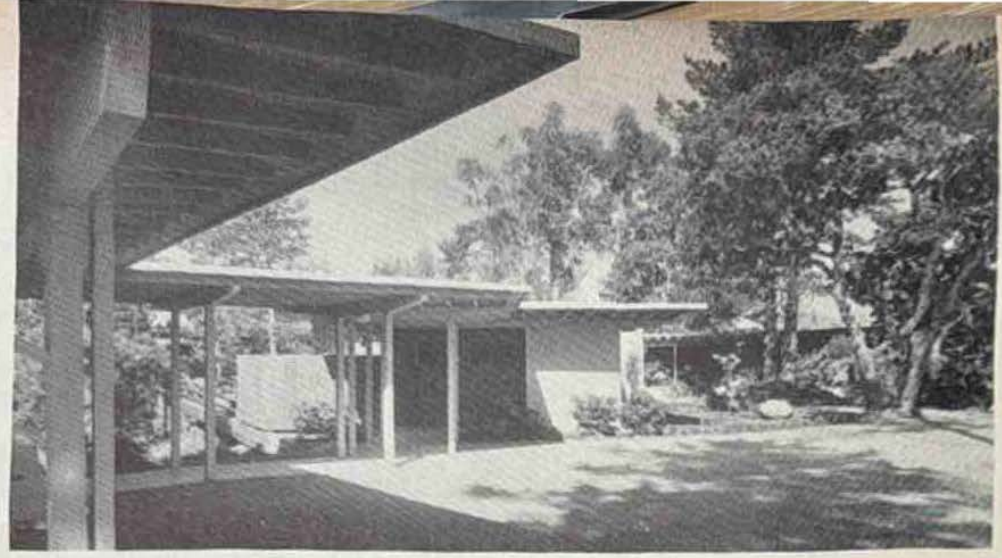
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ARCHITECT'S OBJECTIVE: to design house delicate in character by breaking and playing with surfaces so that structure blends and enhances foliage of site. Top photo shows relationship between carport (extreme left), covered passageway and house. Entrance court is rich tapestry work of landscape architect and nature.

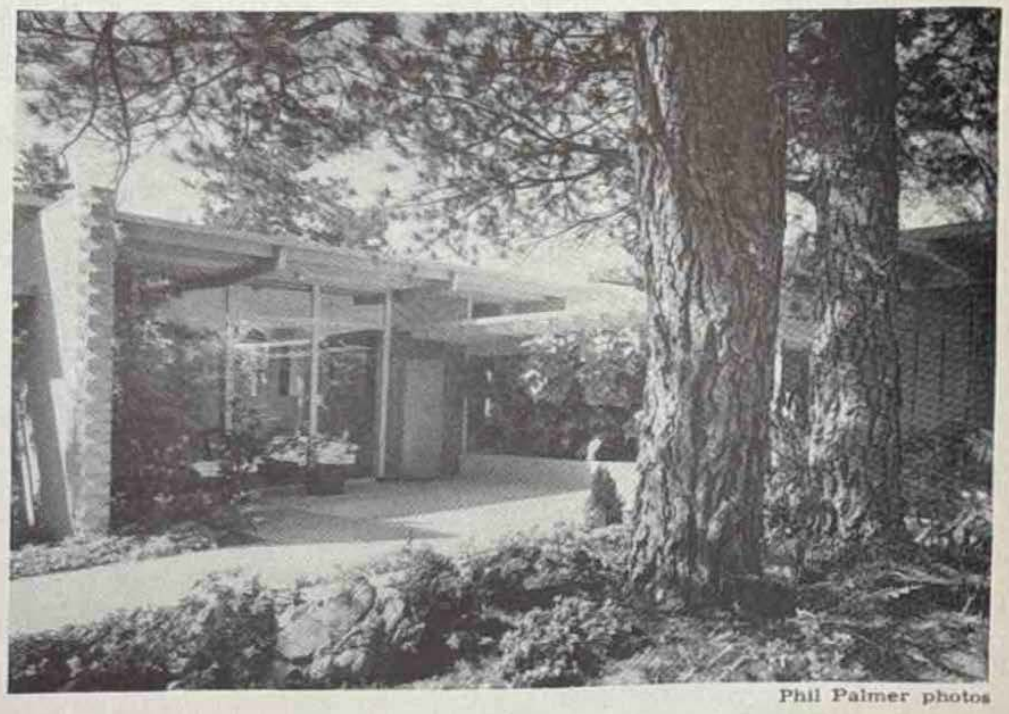


Dr. Donald Hutton Residence
Menlo Park, California

GOODWIN B. STEINBERG, AIA
Architect

GERALDINE KNIGHT SCOTT
Landscape Architect

WILLIAM ANDERSON
Contractor



Phil Palmer photos

An intelligent use of the site

House that treads its way through the forest

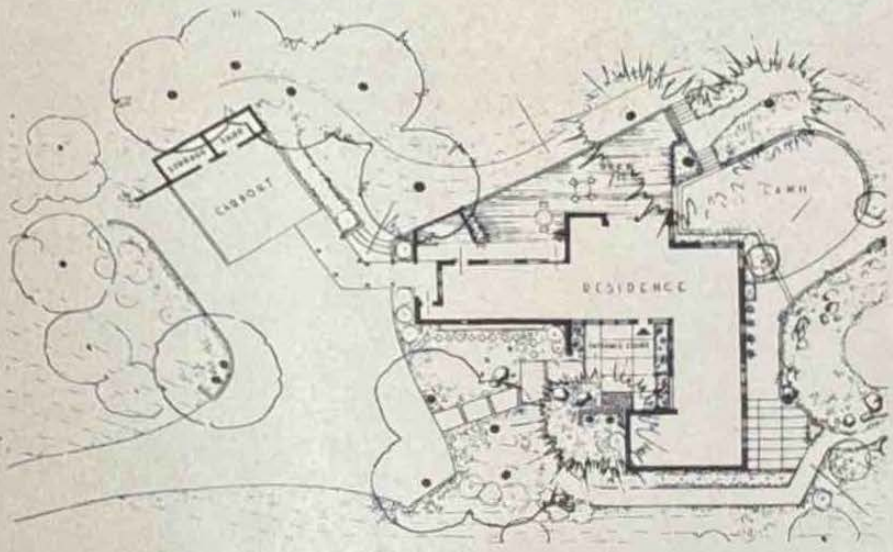
THE 2½-ACRE SITE had only a small level portion of land and just room enough for a house, carport and parking area. Although it was heavily wooded, the loss of any major tree would affect the beauty of the lot at the house location and the privacy required by the clients, both professionals without children—she, a ballet teacher; he, a dentist and a performer with chamber music groups.

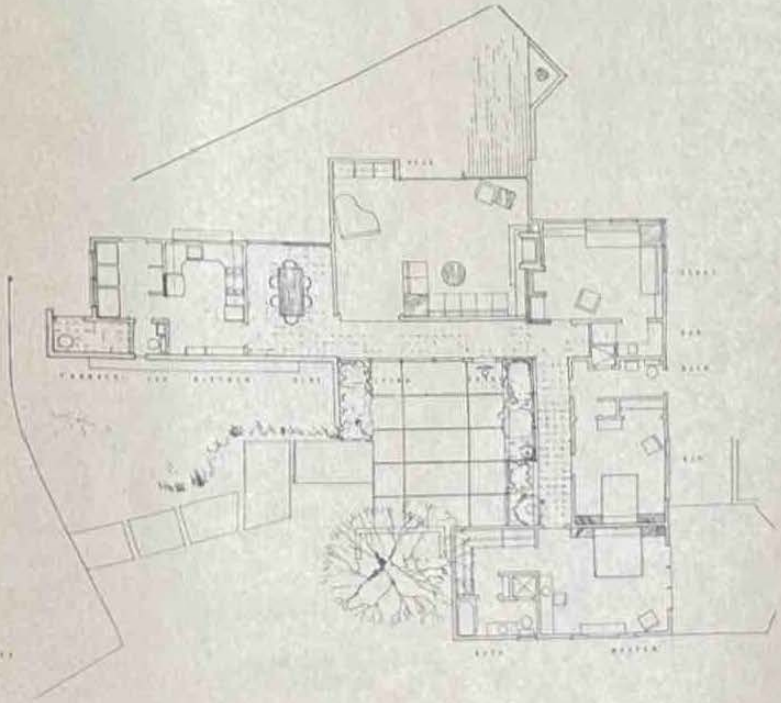
The entire property has a view of the valley, but the most desirable is to the south and southwest where pine-covered mountains present a panoramic backdrop. This necessitated sheltered outdoor living to combat prevailing summer breezes off the bay from the north-northeast and protection of glass areas from the sun.

Since the site in large measure dictated the design of the house, the architect and landscape architect shared in the planning from the outset. The latter's problem was threefold: 1) to assist the architect and clients in locating the house and carport on the very narrow, wooded saddle; 2) to save all good trees and natural undergrowth on the slopes below in meeting the stated requirements; 3) to plan an appealing approach in spite of the large space needed for visitor car parking and turning.

The solution: By locating the house on the edge of the hill and extending a deck parallel with the contours, it was possible to utilize a group of pines

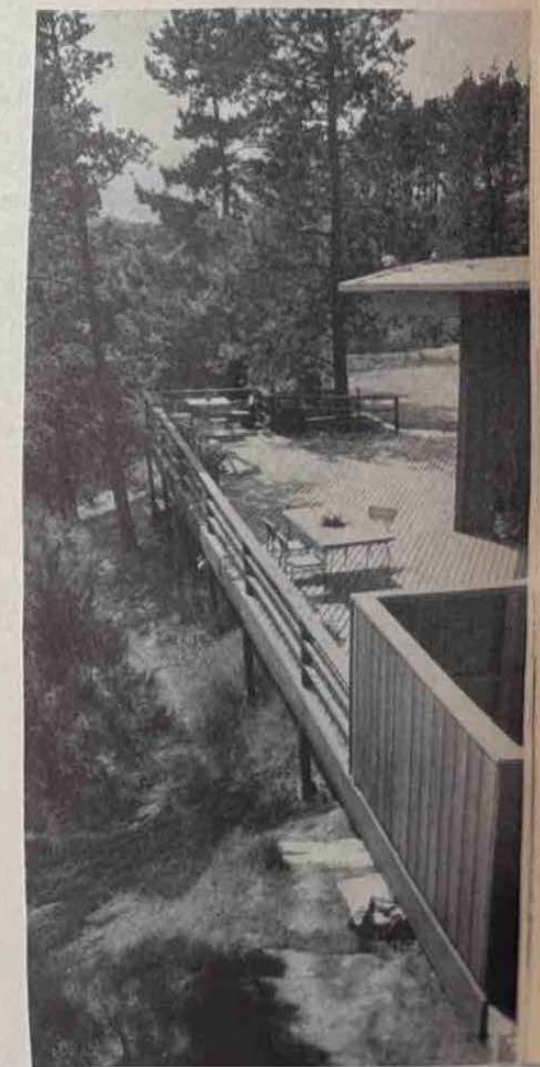
southwest of the house for shade in the late afternoon and to reserve an area for a small, cooling lawn at the west corner. Through careful staking of the site, a roofed connection between house and carport was laid out that would not obstruct the view across the saddle. One end of the deck, near the kitchen, was planned to function both as a service area and as a visual barrier between the parking area and that part of the deck used for lounging. The entrance garden was designed to attract visitors to the main doorway of the house where two pines extend a welcome.





DECK EXTENDS from living room (top photo, left) across front of house. Screened area in foreground (bottom photo) blocks view from parking area and carport to deck and serves as storage. Material is redwood paneling.





HUTTON RESIDENCE



HOUSE BLENDING INTO LANDSCAPE provides quiet mood of privacy. Planting beds line hallway leading to bedrooms; study is seen in background. Both dining and living rooms have mahogany paneling. Simple, direct circulation carries from one end of house to other.





OUTLINE SPECIFICATIONS

Structure: 1-story frame on concrete slab.

Exterior Walls: 8x4x16-in. masonry block (Basalt), 1x8 redwood siding with clear flat rawhide paint.

Windows: Custom-made stopped in wood.

Doors: Mahogany solid core, exterior; mahogany hollow core, interior.

Floors: Quarry tile (Mosaic), ceramic tile (Gladding McBean), vinyl tile (Robbins), carpeting on concrete slab.

Interior Finish: 1x8 mahogany paneling, painted (Morwear) plaster.

Ceilings: Plaster, acoustical plaster (California Stucco).

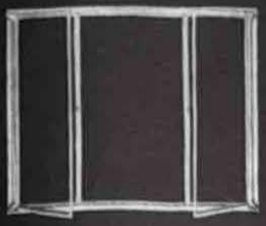
Heating: Radiant system (Arro).

Total Area: 2,200 sq. ft.

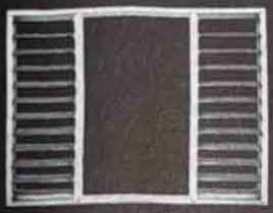
Total Cost: $35,000.

Date of Completion: June 1954.

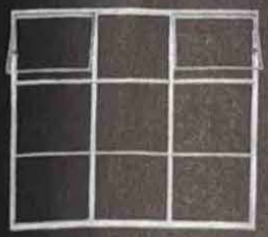
FOUR POPULAR STYLES



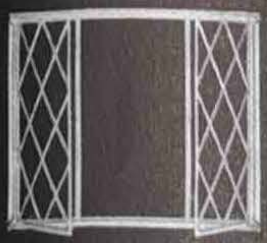
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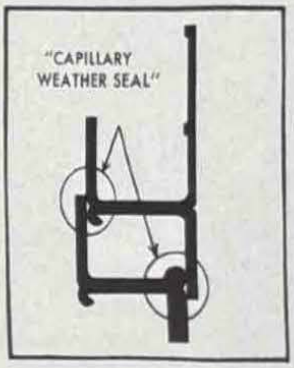


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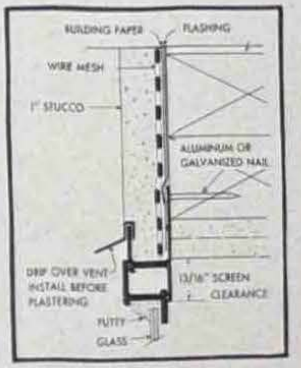
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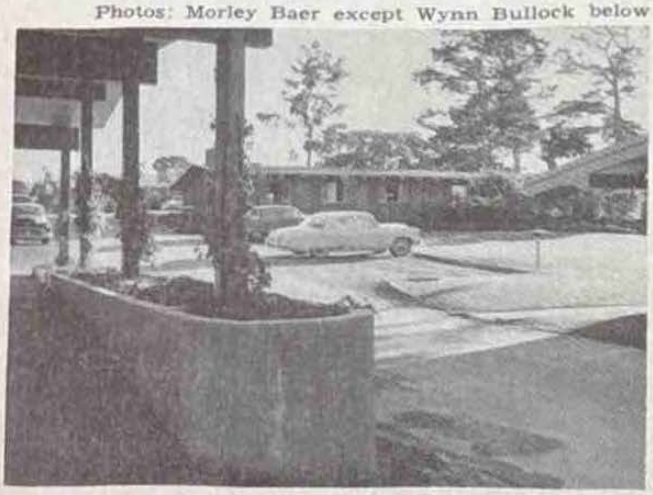
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TASTEFUL SIGN is in keeping with architecture, uses same materials. Parked cars are consolidated in lots.

Photos: Morley Baer except Wynn Bullock below



Mark Thomas Inn, Monterey, California

JOHN CARL WARNECKE, AIA, Architect

JOHN A. BLUME, Structural Engineer

CLYDE BENTLEY, Mechanical Consultant

DARIEL FITZROY, Acoustical Consultant

LAWRENCE HALPRIN, Landscape Architect

HAAS & HAYNIE, INC., General Contractors

An intelligent use of the site

Design seeks to subordinate structures

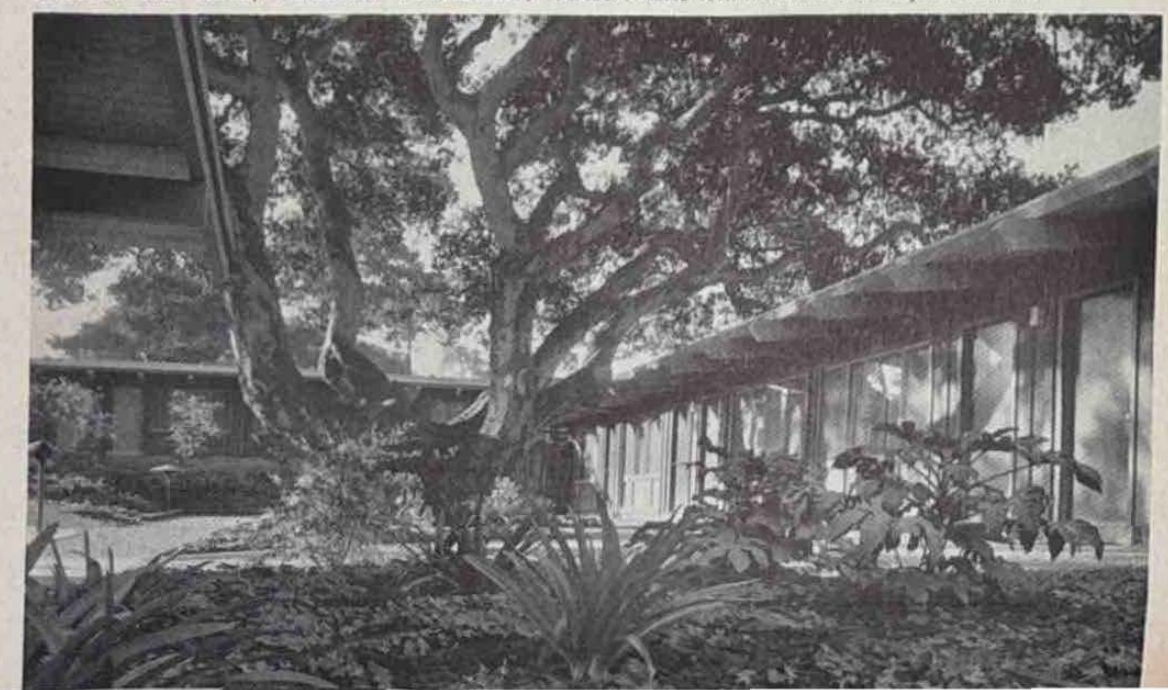
THIS MOTEL PROJECT was designed to be built in three phases, the first of which consisted of 30 bedroom units, an apartment for the manager and four shops.

Six months of successful operation justified the construction of 28 additional and more luxurious hotel units which were arranged to face a swimming pool and terrace. A restaurant and lounge were added around the same central terrace to provide flexible facilities for conventions and other meetings, in addition to resort guests who flock to the Monterey Peninsula for golf, fishing and the coastal scenery.

Future increments will be grouped around an elongated central terrace or possibly a detached courtyard. It is anticipated that the fully developed project will have about 200 accommodation units.

The site was evolved to fit the buildings, roads and parking areas into the open spaces between the oak trees—several at least 100 years old—which are a prominent feature. The architectural organization and style is deliberately casual and subdued to harmonize with the character of the terrain. The wooden structures are quiet; parked cars are not allowed to intrude; the design seeks to subordinate the structures to the great beauty of the land forms and the trees.

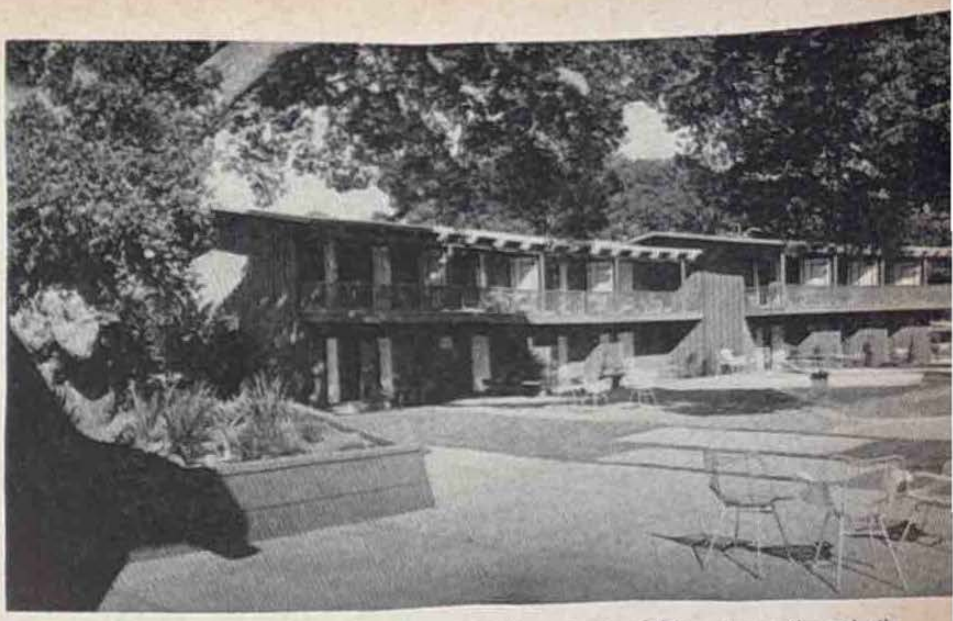
CENTURY-OLD OAKS, PLEASANT OVERHANGS, GLASS AREAS turn motel into countryside retreat.



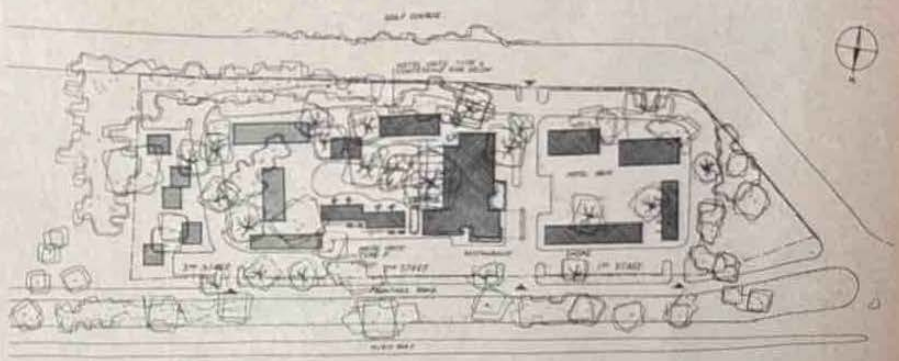
PHASE 1: The original problem was not only to retain the trees, but to design the first stage of a master plan which envisioned possibly 200 units in one- and two-story structures. Furthermore, because income would be limited initially to the rent from only 30 units, the buildings had to be planned for maintenance by a minimum staff. As a result, most of the units are small and cater to the trade of the traveling businessman.

Simple wood construction, costing $14.83 per square foot, employs fir plywood sheathing as a solid base for stained redwood board and batten exterior siding. Interior walls are paneled with gum plywood; partitions are fiberboard and acoustical plywood. Roofs consist of t&g planks on 4x10 beams covered with four-ply composition of decomposed brown granite.

Because of sandy soil conditions, the foundation is of reinforced concrete with no piling, but with a continuous membrane under all of the 4-in. concrete slabs on 6-in. gravel. Floor finishing is asphalt tile in the bathrooms and wall-to-wall carpeting in the bedrooms.



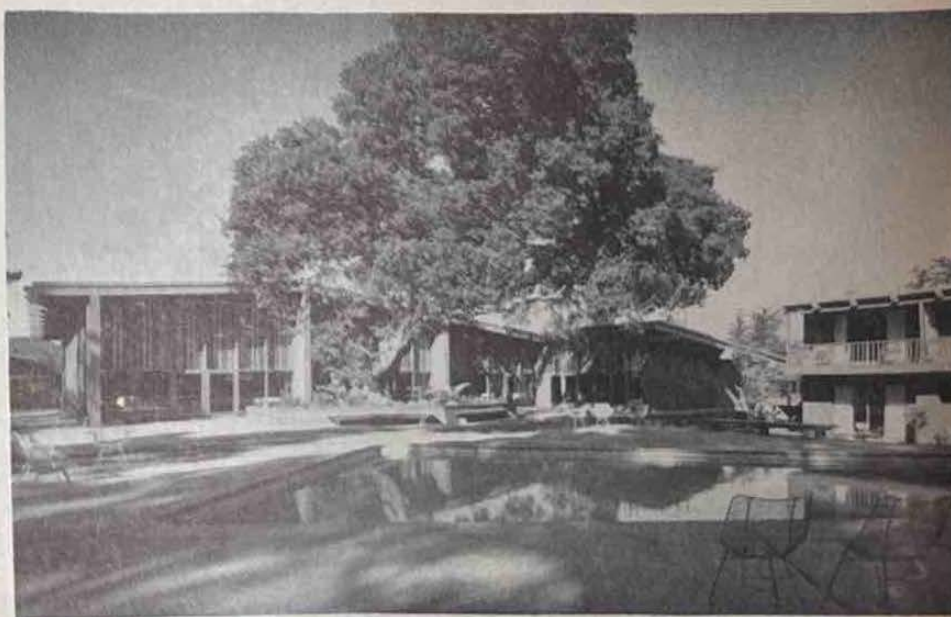
EXTERIOR DETAILS LIKE BALCONY RAILS, as well as custom fabrics, ironwork and tile of interiors, are derived from decorative traditions of Spanish era in Monterey, which served as capital of California in days when it was part of Mexico.



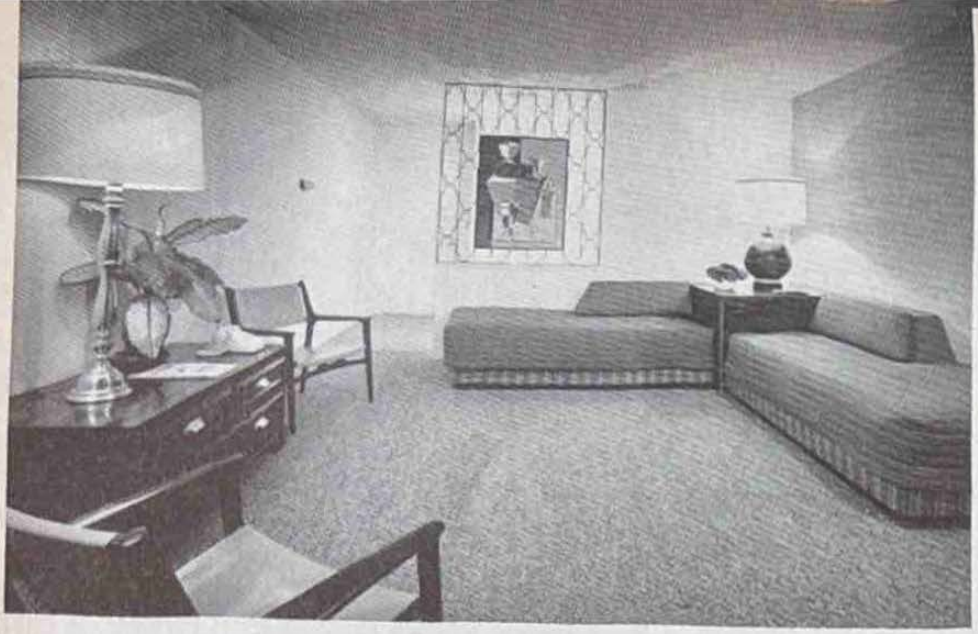
FIRST TWO STAGES NOW COMPLETE provide 58 units, restaurant and lounge. Third stage will be developed around elongated central terrace or detached courtyard.



PHASE 2: The second group of 28 units, bringing the total to 58, is designed in the same style and spirit as the first, but the rooms are slightly larger and more elaborately decorated and furnished. Gypsum board is used between the plywood and redwood siding; fir plywood is used as roof decking. The two-story units also have fir plywood underlayment in the floor construction and the restaurant roof has a diaphragm of the same material. Facilities include two banquet rooms, the largest of which can seat 200 diners and an additional 100 persons for meeting purposes.



SECOND STAGE OF PROGRAM wins AIA award of merit in 1957, just as first stage did a year earlier.



MARK THOMAS INN

BEDROOM INTERIORS of Phase 2 have fiberboard partitions paneled with stained acoustical plywood; one wall is covered with grass cloth. Fabrics were woven in Mexico and delicate patterns in iron grills are used as dividers. Each bedroom has wall-to-wall carpeting, asphalt tile in bath. Interiors are by James Aldridge.

OUTLINE SPECIFICATIONS

Structure: Wood frame on reinforced concrete foundation.

Exterior Walls: Stained redwood board and batten over fir plywood sheathing.

Roof: 2-in. t&g planks on 4x10 beams covered with 4-ply composition (Pabco) with brown granite chips.

Windows: Sliding steel (Rusco).

Doors: Sliding glass (Malibu) in some rooms.

Floors: Asphalt tile, carpeting over 4-in. concrete slab.

Interior Partitions: Fiberboard, acoustical plywood (U. S. Gypsum).

Interior Finish: Stained varnish gum plywood, stained exposed planks and beams, enamel plasterboard, ceramic tile wainscot in baths.

Heating: Unit heaters with thermostats (Minneapolis-Honeywell) in all bedrooms, infrared lamps in bathroom ceilings.

Cost Data:

PHASE 1 (completed June 1955)

Total Area: 12,602 sq. ft.

Total Cost: $187,385.

Cost per Square Foot: $14.83.

PHASE 2 (completed October 1956)

Touring rooms

Total Area: 9,360 sq. ft.

Total Cost: $152,000.

Cost per Square Foot: $16.30.

Flexible convention rooms, cabanas and services

Total Area: 2,112 sq. ft.

Total Cost: $20,000.

Cost per Square Foot: $9.50.

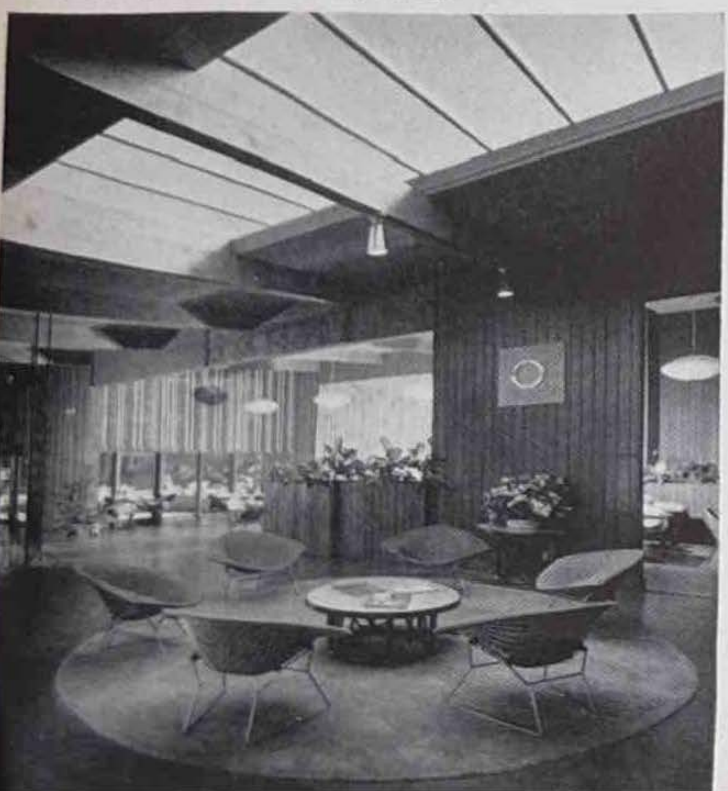
Restaurant and lounge building

Total Area: 9,152 sq. ft.

Total Cost: $168,390.

Cost per Square Foot: $18.40.

ENTRANCE LOUNGE repeats decorative metal grillwork found in bedrooms, has V-joint redwood rustic paneling.



RESTAURANT CONSISTS of four small interconnected rooms, each looking out to exterior court.



No Rim! One Piece! In Color!



HAWS

COMPLETE DECK-TOP, RECEPTOR AND FOUNTAIN ...IN *Fiberglass!*

No rims! No complex forming! Screws easily onto prepared frame or cabinet! Here is modern construction simplicity at its finest — furnishing greater sanitation and maintenance ease, too. There are **no cracks**, joints or crevices to interrupt water-flow from smooth deck-top into receptor, or to retain dirt and grime. The complete integral unit is smooth, rounded, one-piece molded fiberglass — in specially selected decorator colors!

A great new idea for schools! Ideal for classroom and laboratory installation, HAWS Series 2500 units are ACID RESISTANT and impervious to stains. They may be equipped with any combination of HAWS pantry and drinking faucets for versatile applications.

4 and 6 foot lengths are available, 24" deep. Any combination of backsplashes and/or endsplashes will be provided. Models are available to meet New York State or Detroit Code requirement of drinking fountain separate from receptor.



HAWS Model 2546-4 — Reinforced fiberglass, one-piece deck-top and receptor in color. HAWS Model 414A aerated gooseneck faucet at left, and Model 2N2 sanitary drinking faucet at right — both VANDAL PROOF mounted.

Color **AT NO EXTRA COST;** choose from a selection of five decorator colors and white: Coral Accent, Yellow Mist, Pistachio (green), Cerulean (blue), and Gray Satin. A "spider-web" finish of a complementary color is available if specified. All colors are permanently bonded to fiberglass.

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An intelligent use of the site

River and power firm make good companions

The Washington Water Power Co. Service Center, Spokane

KENNETH W. BROOKS, AIA
BRUCE M. WALKER, AIA
Architects

EBASCO SERVICES, INC.
Planning Consultants

WILLIAM W. WILSON
Structural Engineer

KENDALL M. WOOD
Mechanical Engineer

J. DONALD KROEKER & ASSOCIATES
Mechanical Consultants

JOSEPH M. DOYLE
Electrical Engineer

LAWRENCE HALPRIN
Landscape Architect

SHANNON & WILSON
Soil Mechanics Consultants

JOHNSON, BUSBOOM & RAUH
General Contractors

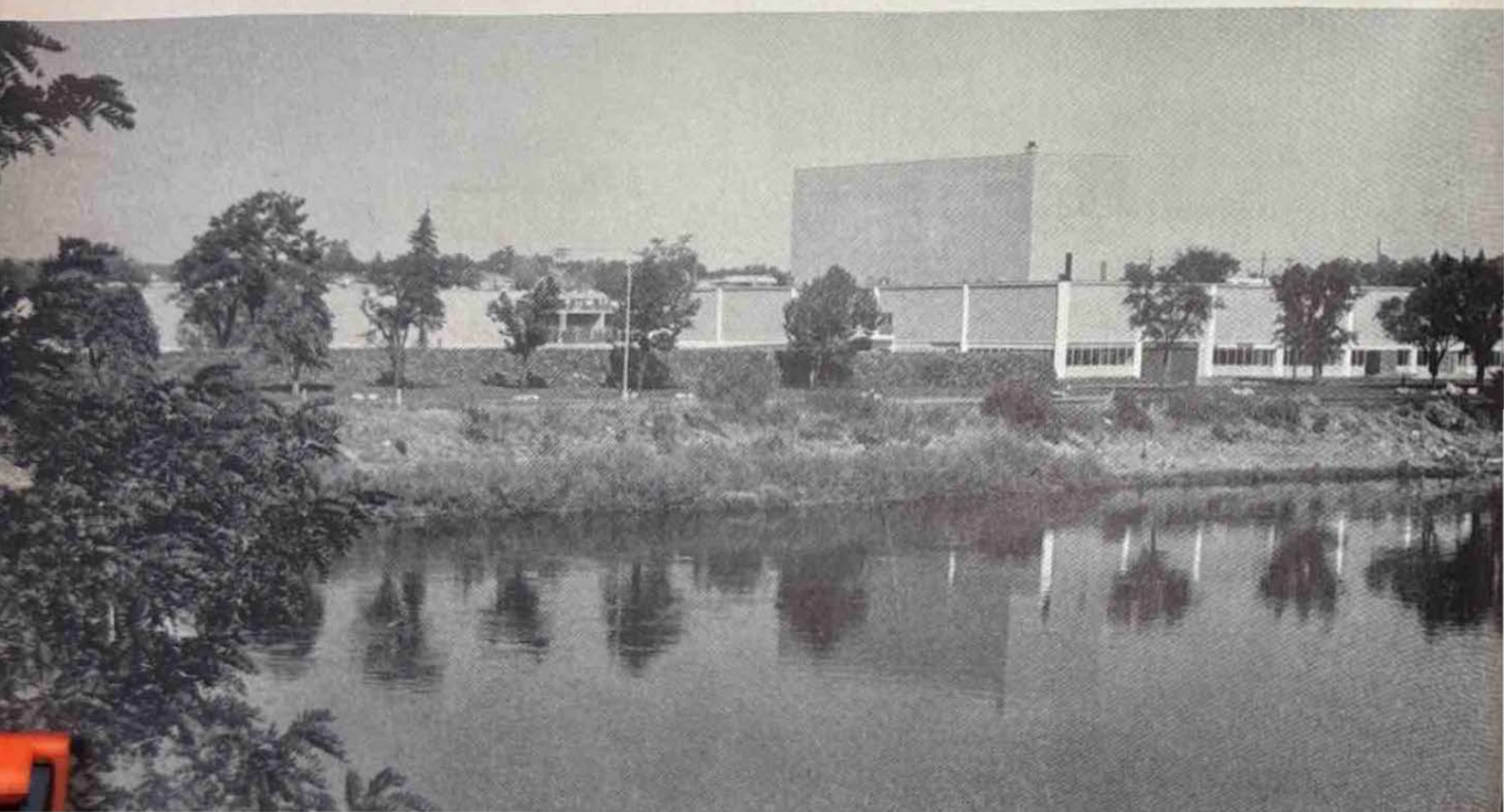
AMENITIES OF THE RIVER have been fully recognized in developing a service center for a private utility which supplies electrical power to the Inland Empire. The site lies adjacent to the Spokane River and one of the city's most scenic drives.

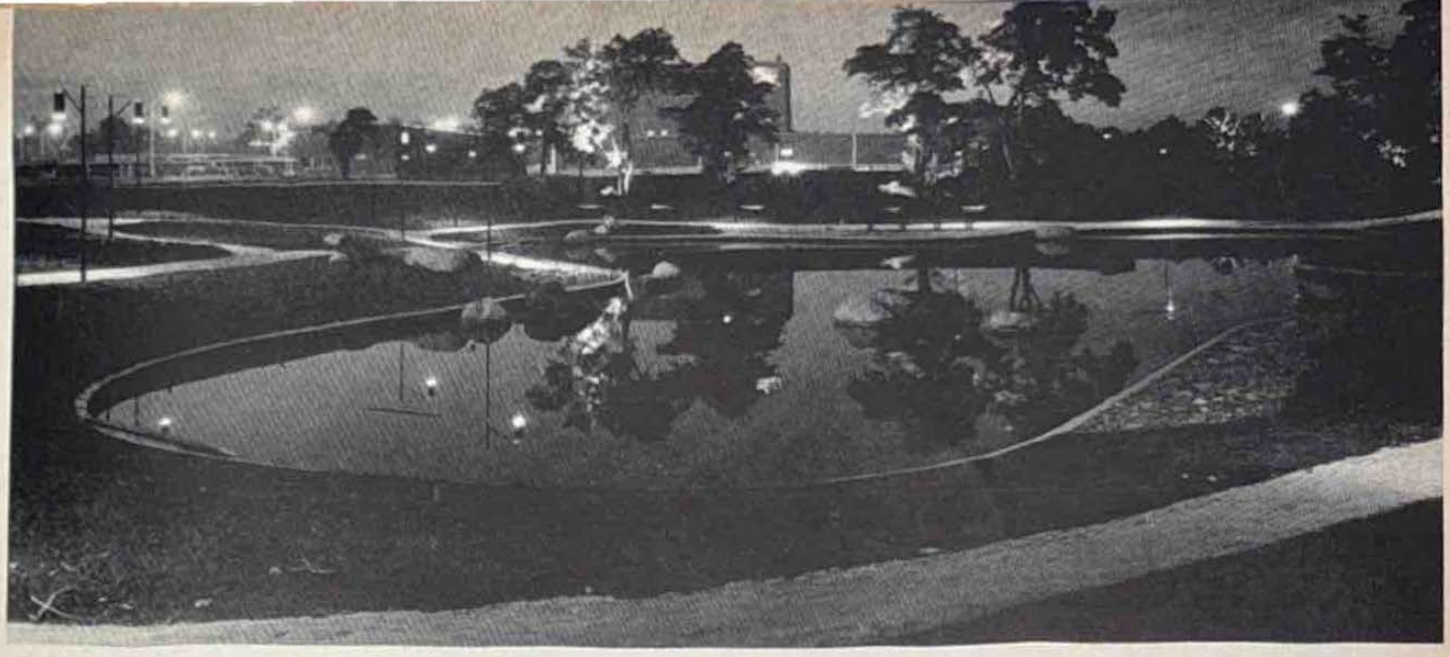
The landscaping program, which is still underway, was predicated on meeting requirements of a special zone classification received by the client to utilize a 28-acre residential area for an industrial purpose; hence the need for screening and planting to harmonize with nearby homes and parks. One of the distinguishing features appropriately enough is the inclusion of water: a 120,000-gal. reservoir storing the discharge water which the heat pump uses and which irrigates the entire site.

To complement this setting, the architects designed the structures as architectural understatements. Already completed are the clean-cut 300x210-ft. service building and storage and maintenance garages, the large expanses of brick facing being relieved by multicolored door panels.

Second stage of construction now in progress consists of a five-story office building—of glass, aluminum, steel and brick—, to be surrounded by spacious parking areas and connected to an adjoining cafeteria-auditorium by a covered walkway and an underground tunnel. The overall project when completed next spring will consolidate more than a dozen service, repair and maintenance operations formerly scattered throughout the city. The building program is based on a 35-year projection of requirements during a period of rapid growth and the site allows considerable room for expansion.

SERVICE BUILDING as viewed from south side of Spokane River. Rectangular brick portion rising above houses 40- and 5-ton cranes used in maintaining heavy equipment.





RECIRCULATING POOL has twofold purpose: it stores discharge water used by heat pump and is strong element in landscape design. Photo above shows Stage 1 construction only.

OUTLINE SPECIFICATIONS

Structure: Reinforced concrete, 30x40 bay sizes with two-way pan type slabs.

Exterior Walls: Reinforced brick cavity, aluminum, porcelain enamel, glass window.

Roof: 18-in. deep pan with 2½-in. slab, built up with coal tar, pitch, gravel.

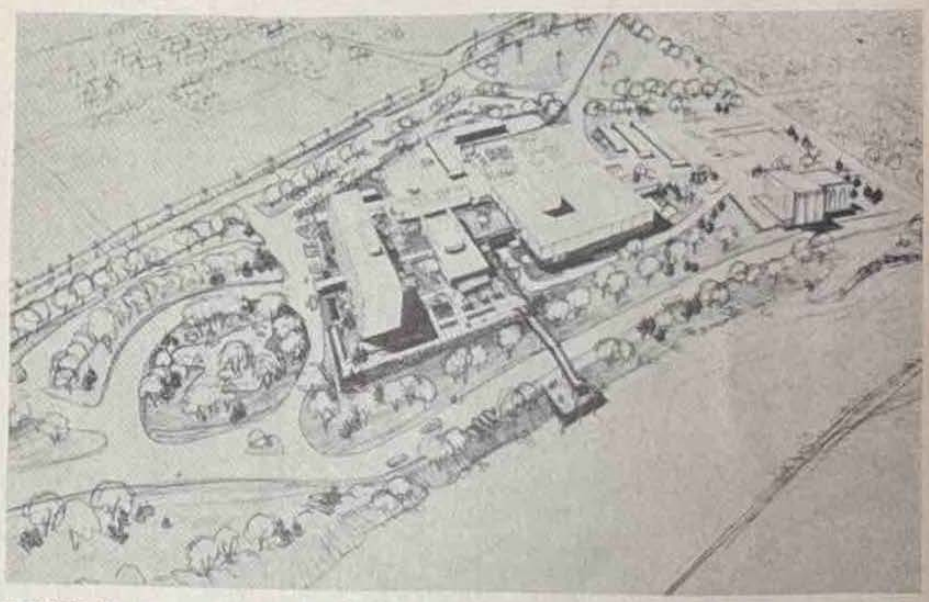
Doors: Hollow metal, personnel; 28-ft. wide overhead steel rolling with electronic control, loading dock.

Interior Finish: Poured concrete on concrete block with speckled white, gray, beige wear-resistant paint.

Floors: Structural glazed tile, vinyl-asbestos composition tile, mosaic tile (in wet areas) on concrete slab.

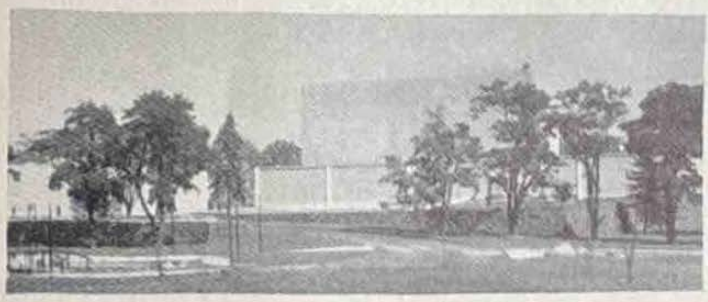
Ceilings: Suspended acoustical with integral lighting and air diffusion in office areas.

Date of Completion: October 1956.

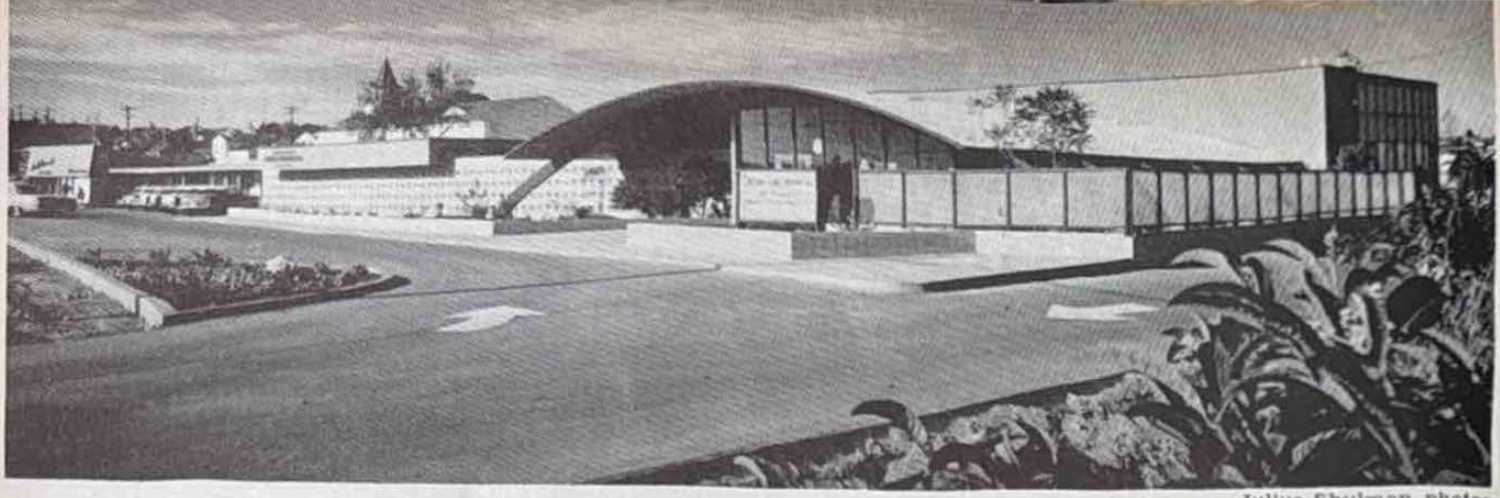


SERVICE CENTER upon completion next spring will consist of five-story office building connected to employee cafeteria-auditorium now under construction and service building and related facilities already completed. Entire project will cost about $7 million; Phase 1, including cost of land, basements for office building and cafeteria, paving and drainage, landscaping, etc., accounts for one-half of total cost.

GROUND-LEVEL SHOPS occupy full length of service building but only half its width. At extreme left of truck parked in driveway under balcony-porch (photo right) is entrance to center's boiler room which contains heat pump equipment.



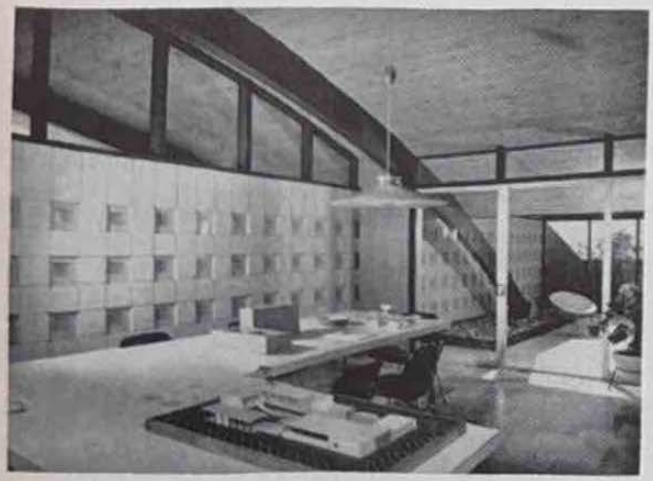




Julius Shulman photos

EXTERIOR COLORS CONCENTRATE on olive tan and burnt umber, with touches of blue and yellow on doors and various panels. Electric fixtures have been recessed as much as possible, hanging lights being used only for accent purposes. Sheets of fiberglass cut to fit into openings in screening wall of concrete block admit light, but seal cold out and heat in. Concrete block planting box serves as barrier to cars in front parking lot, provides break in design.







Where architects hang their hats

RICHARD GEORGE WHEELER & ASSOCIATES
San Diego, California

HORIZON HOUSE, which the architect designed for his own use, is shared by 12 tenants with somewhat related interests: landscape architect, decorator, land developer, civil engineer, etc. The $130,000 (covers building, landscaping and parking space for 30 cars) single-story, no-basement structure was built by Henry L. Wheeler at $8.20 per square foot. Designed for a second-floor addition above the drafting room, the building is of post and beam construction, utilizing pipe columns on a 24-ft. spacing, with laminated beams spanning 32 ft. and an 8-ft. cantilever to cover the walks. This method of beams on pipe columns, with normal wood joists between beams, helped make it possible to attach the roof arches to concrete piers which absorb all the thrust of the roof weight.

The section occupied by the architectural firm is the most dramatic in appearance. Here six 70-ft. laminated wood arches 10 ft. 6 in. o.c. are used, with 2x6 t&g sheathing spans between the arches, allowing for interior walls—wood panels and glass—that can be easily and economically moved during future remodeling or expansion. Most of the building interior consists of stucco plastering and plywood paneling.

The exterior employs concrete block set in a varied and interesting pattern, obtained by turning every third block, horizontally and vertically, on its side and projecting it 1½ in. The block, all 8x8x8 in the screening wall and retaining walls around the building, introduces a change of pace in the design and conveys a feeling of rigidity and solidity.

A problem created by the water table being only 7 ft. below the floor resulted in the use of rock gardens rather than landscape planting. Large smooth rounded gray stones make light patterns under the arches and the overall effect is Oriental. Translucent fiberglass panels, although fixed in place, heighten the effect and give the gardens a delicate air. Although the offices are not especially large, the beams carried inside and the open partitions and patios make them appear much more spacious than they actually are.

'Structural steel in today's architecture'

Excerpts from an address presented by N. P. Hayes at a preview reception of the exhibit "Structural Steel in Today's Architecture in New York's Socony-Mobil Building, largest stainless steel skyscraper in the world

THE PRECISION with which we can now construct architectural forms has stimulated architects to create more freely. Steel, as we all know, has been accepted and used widely in building for a hundred years. Yet until very recently its possibility as a creative medium—as a beautifying material—was totally neglected. As soon as this virtue was uncovered architects began to assign steel the dual role of structural and architectural element in many new kinds of structures. Today exposed steel beams and columns share the job of supporting a building and at the same time add to its attractiveness.

We consider this development so important that we have emphasized it in selecting the buildings which make up this new exhibit. These pictures comprise an eloquent demonstration of the eye-catching beauty that results when steel—in colorfully painted, porcelainized or other finishes—is joined with glass, stone, brick or some other material to make a modern building.

The near distant future promises even greater accomplishments with structural steel. Its potential economies and creative possibilities have been scarcely touched thus far. We are now working on practical applications of a new theory of plastic design which may drastically reduce the amount of steel required for some types of buildings. Through this development builders may be able to save not only steel, but also a considerable proportion of the cost of design and structural analysis.

In addition, scientists are finding ways to produce lightweight steels that have greater tensile strength, resistance to corrosion and other desirable properties. And a leading steel company is now doing research aimed at producing a structural steel that will be transparent enough to transmit light into buildings.

We foresee a permanent marriage of steel and architecture extending very far into the future. A magnificent new era in which science will glorify steel in wonderful new ways. Members of the American Institute of Steel Construction are planning to work more closely than ever with architects, engineers, builders and laboratory scientists to speed the improvement and general progress of the construction industry.

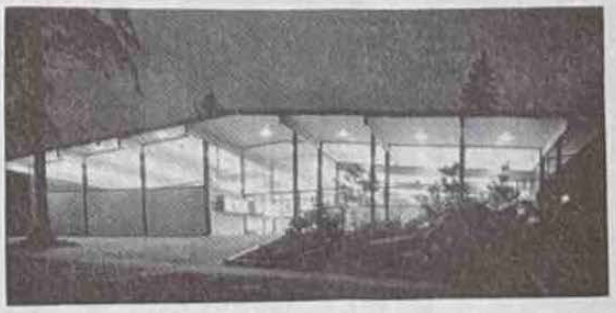
Shown on this page are four projects represented in the exhibit of the American Institute of Steel Construction, which will hang at Hotel del Coronado near San Diego October 6-10, following a showing in Los Angeles September 16-20. The collection of photographs has been booked for Seattle for four months in 1958, starting in May.



MARINELAND, Palos Verdes, Calif.: Pereira & Luckman, architects-engineers. "The architects chose rigid frames of exposed structural steel for their architectural qualities. The rigid frames offer a convenient and economical method of resisting and absorbing impulse forces of the salt water in the open tanks during earthquakes."



BETHLEHEM PACIFIC COAST STEEL CORP., Torrance, Calif.: Albert C. Martin & Associates, architects-engineers. "By design of the architects, this building serves to demonstrate new uses for the products represented. It is the first building of its type to have exposed structural steel supporting frames. Color closely related to the steel industry is used, beginning with red lead on the X-bracings. As the background for the vivid red a variety of grays was used, light gray behind the cross bracing, charcoal in columns and beams."



NORTHWEST BRANCH, SEATTLE PUBLIC LIBRARY, Seattle: Paul Thiry, architect; Sigmund Ivarsson, structural engineer. "The role of steel in buildings is to supply the main strength element. It often remains concealed in the background, hidden beneath other materials. In this instance the architect, winner of two awards for pleasing original design, has given a clear impression of the clean, functional lines of structural steel. The exposed steel beams, spanning one half of the library's width, eliminate a number of supporting columns to allow large areas of uncluttered space."

HILLSDALE HIGH SCHOOL, San Mateo, Calif.: John Lyon Reid & Partners, architects-engineers. "The architects of Hillsdale built a school of classic quality, handling the framework in a deft manner to create a serene and orderly profile. The buildings' strong, bold classicism have fine proportion, detail and color and appear at their best when filled with children. The exposed light steel frame permitted fast erection and furnished earthquake protection."





Publicity for the architect's office

A Los Angeles public relations counsel who has represented an architectural firm offers some first-hand suggestions

by ELAINE K. SEWELL

WHAT THE ARCHITECT can do in regard to publicity for his office will depend upon the individual and his attitude toward architecture. If he has only the goal of "receiving publicity" without regard to qualitative standards, he may be disappointed.

In any form of communications between the architect and the public, the objective of the architect should be that of telling his story with pride and integrity. An architect has one of the most important responsibilities as an influence on the culture of our times. The architect has the specific assignment of making this world a better place in which to live. The architect is one of the most fortunate individuals in the world. He has more than slide rules, statistics and mortar; he has the concepts that make these things useful in the best sense of creativity.

The architect is particularly fortunate because he is directly dependent upon other professions and trades for completion of his work. The designer who creates new hardware devices, the engineer who improves weatherstripping and the manufacturer who produces new materials are important to the architect's success in finding the best possible solution for each job.

By working with others in this way, the architect in particular can understand another man's work and have respect for his craft. With this innate reverence for another man's work, the architect can think of his own profession as a means to a better way of living for others.

If you as an architect believe these things and if you then practice these thoughts, you can apply the principles in your publicity efforts.

There are two things to consider: one is public relations and the other is publicity.

Public relations is a broad overall term which includes publicity. Edward L. Bernays, well-known expert in the field, says that public relations is "good works understood by the public." One of my simplified explanations is that "public relations is the interpretation of the client and his company to his individual publics." The work of interpretation by whatever means deemed best is the job of the public relations counsel.

The work of a counsel is highly skilled and cannot be undertaken on a professional level by someone who is not trained in that field. The scope of communications is so important to a firm in the interpretation of its work that only top-level management is equipped to provide the basic information for the professional counsel, and the interpretation of the client should not be left to amateur hands.

At the same time, every individual can represent his firm at the best level for effective public relations. If every architect will take advantage of every opportunity to explain architecture, not just to toot his own horn, the profession will benefit.

The architectural firm which is not large enough to have an outside counsel to handle publicity or public relations, or who for other reasons prefers not to have a public relations program, can certainly do a thorough and good job in publicity.

The means or techniques of these communications will depend upon the objectives, strategy, planning and themes. Objectives may be long-term, short-term or intermediate. Strategy will depend upon research conducted to ascertain the problem and nature of the solution. Planning and themes follow according to the specific nature of the problem and its solution.

To repeat, publicity is one phase of public relations. Here we shall confine our remarks to publicity efforts only and just briefly in order to suggest that the subject is important for each firm to consider. Interpretation of the architect's work is necessary to bring about understanding. Misunderstandings by the voting public on school measures, for instance, come from lack of information in most instances. Educating a public is a long-term project. Public relations and publicity are not intended as measures or devices to mend broken fences. Good public relations and good publicity will help prevent the problems before they arise and will help educate the various publics over a long period of time.

The basic factor of general publicity for the architect is that it is a two-way benefit. The editors want to publicize good work; the architects want their good work to be published. How to get together?

There is an outlet for nearly every story of merit. It is important for the architectural firm seeking recognition for his work to be realistic about the publications who can logically feature the material. In other words, consider the story from the editor's point of view. The editor is in business to do a job tailored to a particular readership just as the architect has a given job to do for a given client. The editor's responsibility is to produce his publication to fill the desires of a specific readership either by age groups, professional interests, income brackets or other criteria.

If you are in doubt about usability of material, write the editor and tell him briefly what you have in mind.

Continued on p. 34

Publicity Points to Ponder

1. Don't worry about "writing an article." Worry about getting all the facts: who, what, when, why, where.
2. Be accurate. Better to omit a questionable "fact."
3. Get permission from your clients and anyone else necessary before you release material on their jobs. The editor doesn't want to look at jobs he can't publish because the client's grandfather owns a competitive publishing house.
4. Identify all photographs with name of job and architectural credit. Write only in soft pencil, lightly, on back of photo.
5. Do not use paper clips on photographs. Marks from clips damage the prints.
6. Be discriminating with photographs. The best photography is the best investment. One good photograph is worth several poor ones.
7. Type all material with double spacing to allow for editor's comments.
8. Answer editor's correspondence promptly. Deadlines wait for few mortal men.
9. Don't be afraid to ask the editor about disposition of your material. Be sure you understand if you are obligated for exclusive rights. Don't read a promise into his kind smile or hold him responsible for something he didn't say, but you hoped he would.
10. Don't be afraid to compliment the editor on a good editorial job, even though your job may not be mentioned. If it helps architecture in general, it helps every architect.

whatever you need

build it better...faster...for less...with steel



Service Station by Fentron Industries



Plant Office by Calcor Corporation



Potato Cellar by Boise Payette Lumber Co.



Warehouse by owner

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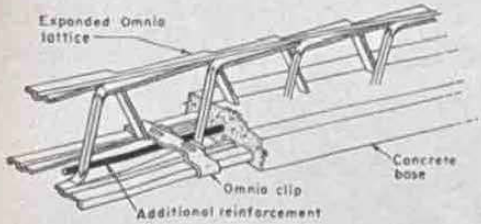
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UNITED STATES STEEL



THE OMNIA PLANK ASSEMBLY

Concrete floor system combines structural, erection advantages of cast-in-place and precast methods

A LIGHTWEIGHT beam-and-block floor and deck system which proved itself in Europe during the past five years and which is now being used for the first time in this country, is reported to provide the structural advantages of cast-in-place concrete, yet even simpler to erect than precast flooring.

Called the Omnia floor and adaptable to spans of 30 ft. or more, it is monolithic in character, thus acting as a stiffener to the whole structure. At the same time, it is particularly suited to mass production methods. And the new floor, unlike conventional block-and-beam systems, can be cambered during erection to produce a level finished surface over any span.

More than 75 million square feet of the floors and roofs have been erected in Europe since their development in Germany five years ago. The floor consists of three components: the "plank," filler blocks and concrete topping. The plank, a reinforced steel lattice girder with a reinforced concrete base provides the support for the floor. Lightweight concrete blocks rest between the planks. The planks and blocks (Photo No. 1) provide both support and forming for the concrete topping.

Structural advantages

The floor behaves structurally like a poured-in-place slab. It spreads concentrated loads, absorbs impact and vibration stresses and resists cracking. Because of its light weight the new floor allows design economies by reducing the load on supporting members. Its solid construction gives great resilience.

As the steel is adequately covered, the system has fireproof qualities. Cast-in-place concrete girders may be used with precast floor joists. The floors are adaptable to many loads and spans by varying the height of the lattice girder, the amount of reinforcing, the spacing between planks and the topping thickness.

Erection advantages

The light weight and relatively small unit size of its mass produced precast components are the primary erection advantages of the floor. Typical planks weigh but 11 lb. per foot compared to about 25 lb. or more per foot for conventional precast beams. Weight of a typical filler block is 30 lb. or 22½ lb. per square foot, although they may be lighter. Thus, the precast members are easily manhandled (Photo No. 2) and require none of the expensive heavy equipment usually necessary for precast erection.

Since the precast members act as the forming for the cast-in-place topping, expensive forms are unnecessary as is the close technical supervision which is normally required for form construction. Forming for roof lights, stairwells and stacks can be provided easily, as can change of direction of beams.

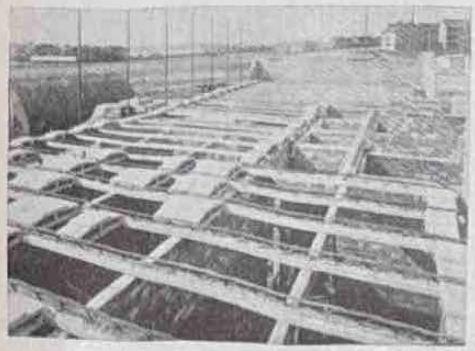
In addition, facilities for services are easily located in the floor. They may be placed beneath the topping, through the hollow blocks, or in cross ribs (Photo No. 3).

Finally, the poured concrete of the floor acts as the T-flange of reinforced beams and frames, thus increasing their resistance without additional labor or expense.

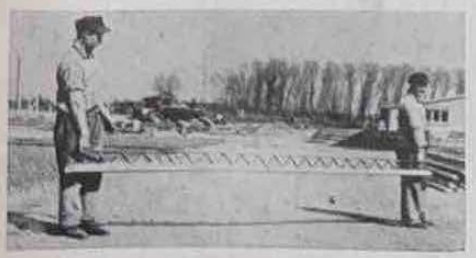
Construction

The precast plank consists of a lattice girder of 15-gage cold rolled steel, additional reinforcement attached to the lattice boom with clips, which also act as spacers, and a shallow concrete base. The stamped lattice strip is shipped and stored flat, then cut to length and expanded near the point of use. Its bottom booms provide tensile reinforcement for erection stresses and short cantilevers. Lattice diagonals mechanically bond the precast base and the cast-in-place topping. Additional reinforcement is not required on spans up to 8 ft. or 4-ft. cantilevers; for longer spans it is selected according to job requirements. The shallow concrete base which forms the soffit is cast in simple mass production molds or produced by machine.

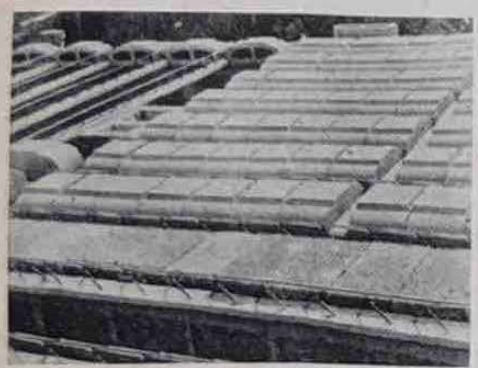
The hollow filler blocks are precast of lightweight concrete, burnt clay or other similar materials. Their depth can be modified to suit the modular or load requirements of the job or local production facilities. Two core or three core blocks may be utilized.



No. 1: Planks in place and concrete blocks partially laid. Note wooden beam perpendicular to planks at midspan in right foreground. Beam, supported by jacks, produces camber to give level finished floor. Two core blocks are used here, but three also are suitable.



No. 2: Two workmen can carry lightweight planks up to 20-ft. long. This one is 15 ft. Plank casting bed is visible at left.



No. 3: Floors are extremely adapatable to changes in direction and to simple installation of utilities, accomodated by low, flat blocks.

PROSAIC SUBJECT + ARCHITECT =

NATIONAL ACCLAIM



Architect: W. F. Bernbrock, Moline, Illinois

Even the drab lumber yard — given the imaginative design and functional beauty of an architect's touch — can win local sales and national acclaim. Such is the experience of Builders Lumber Company, Moline, Illinois, where Rilco laminated-wood beams and deck help express the dramatic "open feeling" that seems to say "welcome" to customers.

While only a small portion of the complete structure, this store area has become the focal point which lifts this building out of the ordinary. Interest and sales have increased to a "happy" degree.

Rilco laminated-wood arches, beams, purlins, trusses and deck offer unlimited variations that stimulate new, interesting and practical design at low cost. For complete information just write

Note mezzanine supported from above and below by Rilco laminated wood beams



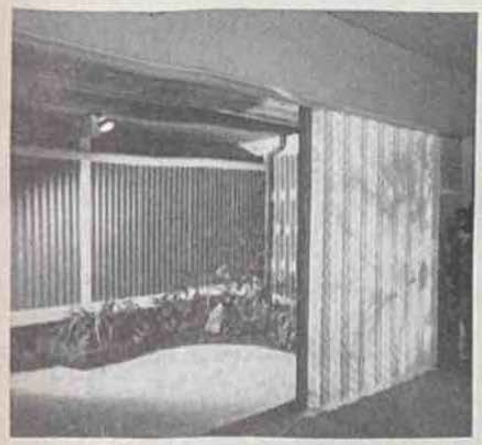
RILCO works wonders with wood

RILCO LAMINATED PRODUCTS, INC.

236 Tacoma Building, Tacoma, Washington

Materials – Products – Tools

and the latest literature



WINDOW BLIND: A semi-translucent traversing window blind, the Jaylis filters glare from sunlight and transmits diffused light into the room. The three-dimensional molded pattern permits air to pass through unobtrusive horizontal vents that are an integral part of the design. The blind can be used as a room divider, as a door for storage spaces and as wall screen; and at night these applications can be made dramatically luminous through use of electrical lighting. It has high reflective qualities, making it especially desirable for large expanses of windows with sun problems. —Jaylis Sales Corp.

(Item No. 1)

FOUNTAIN UNIT: Particularly designed for school applications, the Haws one-piece, deck-top receptor and fountain unit features the absence of any rims, cracks or joints, eliminating undesirable dirt and water accumulation. Molded in lightweight fiberglass, Series 2500 units are in standard lengths of 4 and 6 ft. and are 24 in. deep, furnished with integral backsplashes and endsplashes as required. Installation is easily accomplished by screwing wooden receptor backing onto a prepared frame or standard cabinet. — Haws Drinking Faucet Co.

(Item No. 2)

GARBAGE DISPOSAL: An addition to the Pioneer family of kitchen appliances is the D-57 disposal whose one-piece splash guard permits wide throat opening for easier loading. Chrome steel shredder plate and ring are designed for controlled microfine pulverizing of all food wastes and even bottle caps accidentally dropped into the unit are ground up without jamming the moving parts. During operation the outlet duct swirls jets of water at high velocity and low pressure to impart a scouring action that keeps home plumbing clean and free from clogging.—Pioneer Manufacturing Co.

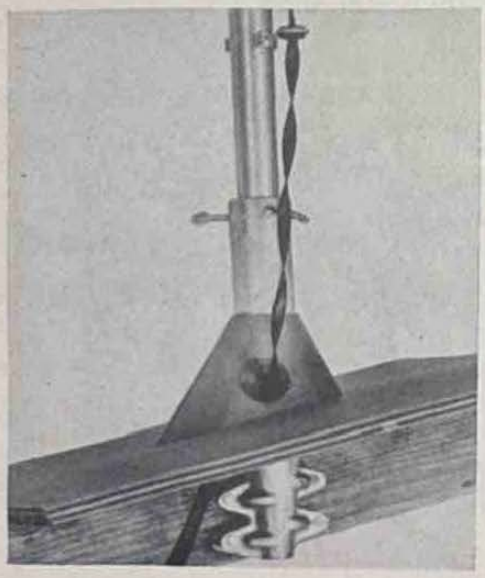
(Item No. 3)

FLOOR TILE: To match its Salt-n-Pepper wall tile, Pomona has introduced a Perma-Glaze floor tile, cream colored with "pepper" distributed evenly throughout. The double-glaze process provides a hard finish that results in a depth and texture.—Pomona Tile Manufacturing Co.

(Item No. 4)

TV ROOF MOUNT: A one-piece aluminum mast holder, the Tele-Jac eliminates unsightly guy wires and exposed lead-ins which damage the roof and keeps the antenna in a vertical position. Wires from the antenna disappear at the base of the mast and are built into the wall, terminating at a wall plate with plug. When this plug is attached to the TV set's lead wire, it enables the user to plug into and unplug from the antenna, much the same as a lamp plug into the wall. Thus it does away with the coil of wires found behind the set. If done while the building is under construction, installation should not take more than 30 minutes. The Tele-Jac has been specified for a number of Capehart housing projects in the West.—The Tele-Jac Co.

(Item No. 5)

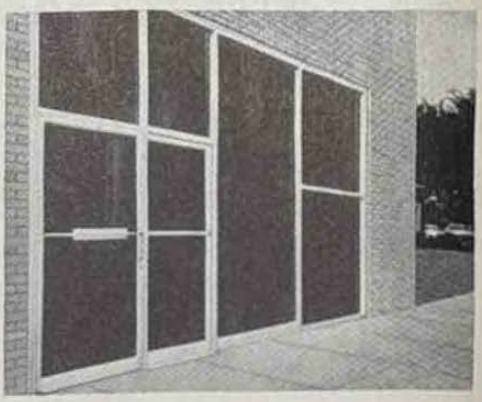


PLUMBING FIXTURES TEMPLATE: To assist architects and mechanical engineers in preparing scale elevation drawings of bathrooms and powder rooms, American-Standard has produced a template showing the exact elevations and profile views of many of its plumbing fixtures. It is done in ½-, ¼- and ⅛-in. scales for flexibility.—American-Standard Plumbing and Heating Division.

(Item No. 6)

FIXED GLAZING SYSTEM: A building front and wall system that uses only a few standardized glass framing members provides unlimited design freedom and is the first to offer flush glazing on all four sides of a glass pane. Built-in glass holding channels in all the components eliminate the extra lines of the protruding glazing members common to most other systems. Glass stops may be used where the flush glazing is not desired.—Kawneer Co.

(Item No. 7)

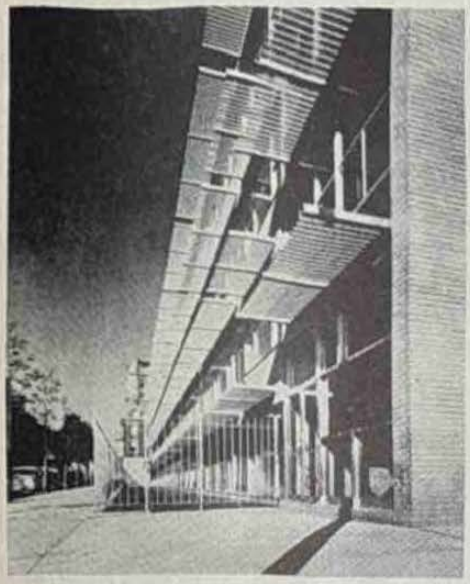


SUN CHART: Jaffe's sun chart provides assistance in proper placement of windows, walls, specific rooms, swimming pools, etc., by showing where the sun shines every hour everywhere in the United States and plotting its direction and altitude at various times of the day throughout the year. The chart uses a system of crossed lines with a "sun mark" placed over building plans. It gives an average position of the sun at various hours of the day at 34 deg. north (Los Angeles to Atlanta) and 42 deg. north (Medford, Ore., to Boston); thus other areas can easily be estimated from these key positions. — Western Blue Print Co.

(Item No. 8)

GRATING SUNSHADES: On school building and other structures which often require large glass areas for natural lighting, Irving has developed standard panels of grating for use as sunshades. In addition to helping control sky glare, they will not collect rain or snow and are strong enough to be used for window cleaning walkways. The grating may be mounted in any plane and is available in a variety of mesh patterns, fabricated in aluminum (used on Curtis Hall at Temple University shown in photo), steel and other metals.—Irving Subway Grating Co.

(Item No. 9)



LAMINATED PLASTIC: Joining the ever-increasing list of plastics is Pearsonite, a completely prefinished three-dimensional formable sheet, available in bright metallic, multicolored or wood veneer finishes. It is offered in a dozen finishes, a wide choice of deep-embossed textures and is produced in 40- and 48-in. wide continuous rolls of up to 100 yd. Typical applications; acoustical ceilings and walls, wall tile, decorative cabinet veneers, work surfaces, kitchen and scuff plates, venetian blind slats. —Metallic Plastic Corp.

(Item No. 10)

BONDING FOAM: Used for thermal, electrical and sound insulation, for structural strength, etc., Stafoam polyurethaene formulations for spray gun coating will foam in place to any desired thickness between ⅛ and 2 in., forming a surface bond stronger than the material itself. Densities range between 2 and 20 lb. per cubic foot, either in rigid or semi-rigid forms and in non-spray formulations as well. —American Latex Products Corp.

(Item No. 11)

Latest Handbooks, Manuals and Literature

Yours for the Asking

CONSTRUCTION DATA: Horn's 108-page handbook provides an easy reference to nearly 100 specialty products it manufactures for industrial, institutional and commercial users in the West. With each description is an outline of recommended uses, methods of application, covering capacity and colors. More than 30 construction tables, guides and charts are included. —A. C. Horn Co., Inc.

(Item No. 12)

RED CEDAR: "Western Red Cedar Lumber Grades and Uses" is a companion piece to the previously issued Douglas fir and West Coast hemlock species booklets. Eleven grades are represented in full-page illustrations. The 36 pages also include replicas of grade stamps, conversion tables, recommended nailing practices and roof decking spans.—West Coast Lumbermen's Association.

(Item No. 13)

HOME LIGHTING: The first practical standards for minimum quality lighting in the home are available on a single sheet. In addition to outlining general and specific area requirements, the standards describe desirable fixtures and outlets to assure comfort and safety.—American Home Lighting Institute.

(Item No. 14)

HEATING SYSTEM: How to integrate Lennox's Comfort Curtain heating and ventilating system into school building design is treated in an eight page brochure of sketches created by a Chicago architect, which are intended to stimulate the imagination. Simplified floor plans accompany the sketches.—Lennox Industries, Inc.

(Item No. 15)

TWO-WAY FORMING UNIT: The Ceco-Meyer Steeldome, described in a four-page brochure, is a newly developed product for use in forming waffle type concrete joist construction. It is a one-piece form designed especially for exposed ceiling construction.—Ceco Steel Products Corp.

(Item No. 16)

WELDED WIRE FABRIC: A revised 44-page edition of the design manual on the use of welded wire fabric in reinforced concrete building construction is packed with diagrams, tables and data covering such methods as short-span construction, cinder concrete floors and roofs, tilt-up wall construction, gun work and other current practices. Other topics: fireproofing structural steel, lightweight structural concrete, shrinkage and temperature reinforcement and concrete slabs on ground. — Wire Reinforcement Institute, Inc.

(Item No. 17)

DESIGNING FOR EARTHQUAKES: A bibliography concerning earthquake resistant design lists publications on seismology, the magnitude and intensity of earthquakes, engineering applications, building codes, insurance codes and reference sources.—American Institute of Steel Construction.

(Item No. 18)

MASONRY WALL REINFORCING: Results of research conducted at the University of Toledo on how joint reinforcing actually affects the strength of masonry construction have been assembled as individual sheets in a file folder. Scope of the study included the effectiveness of deformation of steel side rods, design comparison tests, mortars, distribution of wall stresses and related tests.—Dur-o-wal.

(Item No. 19)

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.

SEPTEMBER 1957

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

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Address_____

City_____ Zone____ State____

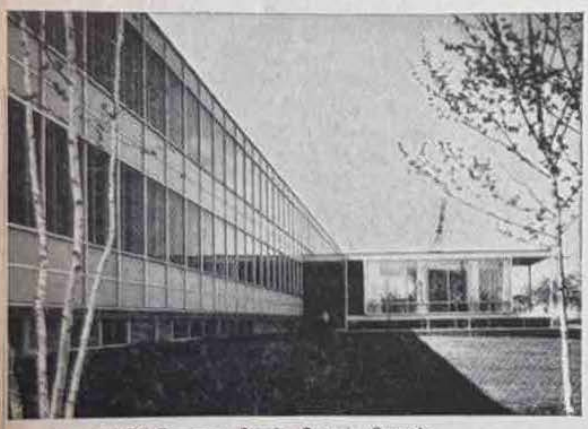
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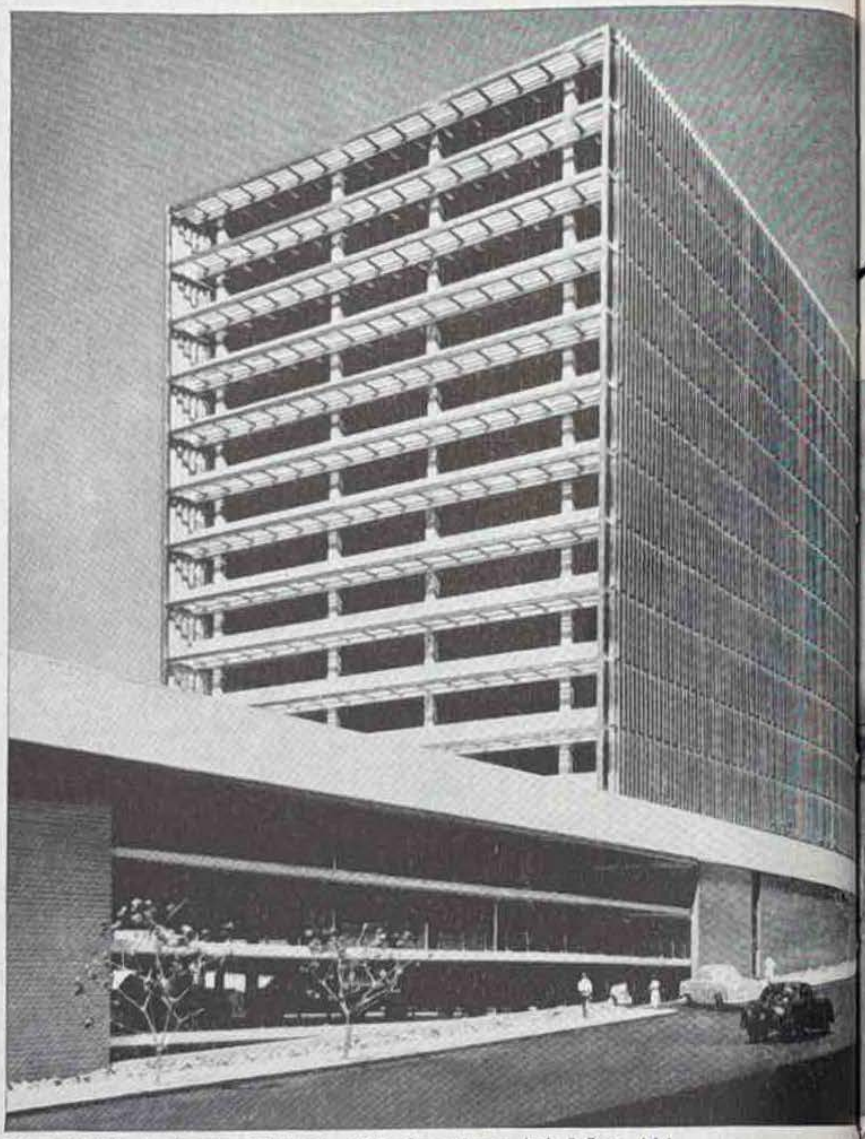


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ANALYSIS AND ENGINEERING—The Kawneer engineering team considers every curtain wall application as unique. Each is subjected to a searching analysis. Such points as (1) the curtain wall's effect on load bearing elements, (2) adequate accomodation for wall movement due to wind load and temperature change, (3) weathering features and (4) integration of all components within the wall system are the subjects of careful study. The result of this careful analysis is a curtain wall design that provides the highest standards of performance while retaining the most expressive appearance of the architect's design.



Imperial Oil Company, Sarnia, Ontario, Canada
Arch.: John B. Parkin Assocs., Sarnia



Tishman Building, Los Angeles, Calif. Arch.: Victor Gruen Assocs. Arch. & Engr., A.I.A.

FABRICATION—Kawneer modern fabricating facilities and flexibility of production assure you of the most effective execution of your metal wall requirements. Whatever finish or material, whatever performance demands you make, Kawneer will provide the answer in its metal wall system.

INSTALLATION—Kawneer takes complete responsibility for engineering, fabricatio[illegible]stallation . . . assurance that your [illegible]wall will perform to your

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Mutual Benefit Life Insurance Co., Newark, N. J.
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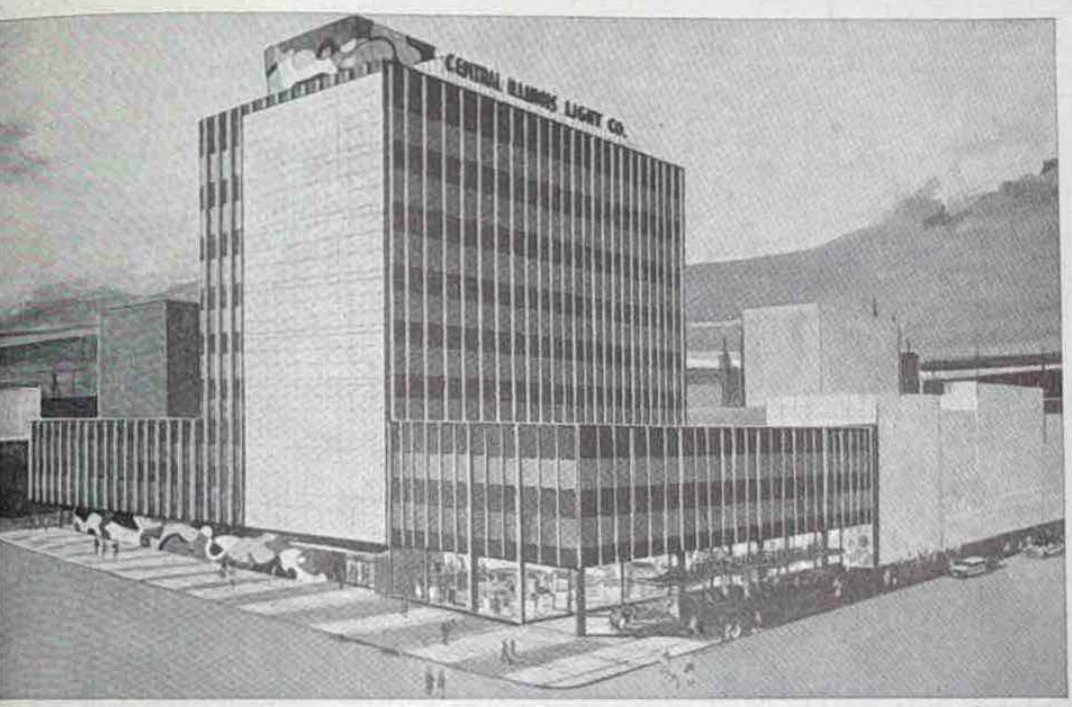
curtain wall system



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Kawneer as a single source for curtain wall means high quality units are available in aluminum, stainless steel or porcelain finish. You have a selection of roll formed, brake formed or extruded shapes. Specially designed operating sash with neoprene or vinyl weather seal or fixed glazing can be used. Insulated sandwich panels, custom-engineered sun control devices can be adapted to any job. The finest aluminum entrance units and aluminum or vinyl covered flush doors are also available.

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PA&B T-square talk

NEW FIRM: Eric W. Johnson and Glen H. Mortensen have formed the architectural firm of Johnson & Mortensen at 142 N. California, Stockton, Calif.

✓ John R. Ross, AIA, of San Luis Obispo, Calif., who has been in partnership with William D. Holdredge for the past year, has established an office under his own name at 1149 Marsh St. Holdredge has moved to Texas where he has purchased another firm.

✓ The architectural firm of Donn Weaver & Associates has been formed to succeed Ingle & Weaver, with offices at 107 W. Perkins St., Ukiah, Calif.

OFFICE EXPANSIONS: Haarstick Lundgren & Associates, Inc., architects-engineers of St. Paul, have opened an office in San Francisco in the Pacific National Bank Building, 333 Montgomery St. In charge will be associate Robert A. Bennighof who holds architectural degrees from the University of Minnesota and the Cranbrook Academy of Art.

✓ Adrian Wilson & Associates, architects-engineers with headquarters in Los Angeles, have established a permanent office in Las Vegas, headed by project manager Richard Drayton. For the past two years he has been in Los Angeles during preparation of plans for the Las Vegas Convention Center.

ON THE MOVE: The office of Jack A. Edson, AIA, is now located at 44 N. Front, Medford, Ore.

DIED: Gabriel A. Berger, 88, architect who designed many of the buildings in San Francisco Mission District, died July 25 after an extended illness.

✓ Roi L. Morin, AIA, passed away August 12 in a Portland hospital at the age of 60. A native of Massachusetts, he was a graduate of MIT and in 1924 came to Portland where he was associated with Herman Brookman on the design of a number of buildings, including Temple Beth Israel. Among Morin's recent designs were the Civic Theater and Pioneer Broadcasting buildings.

NAMED: Oswald Berg Jr., who heads the Montana Chapter, AIA, has been appointed a city commissioner in Bozeman, Mont.

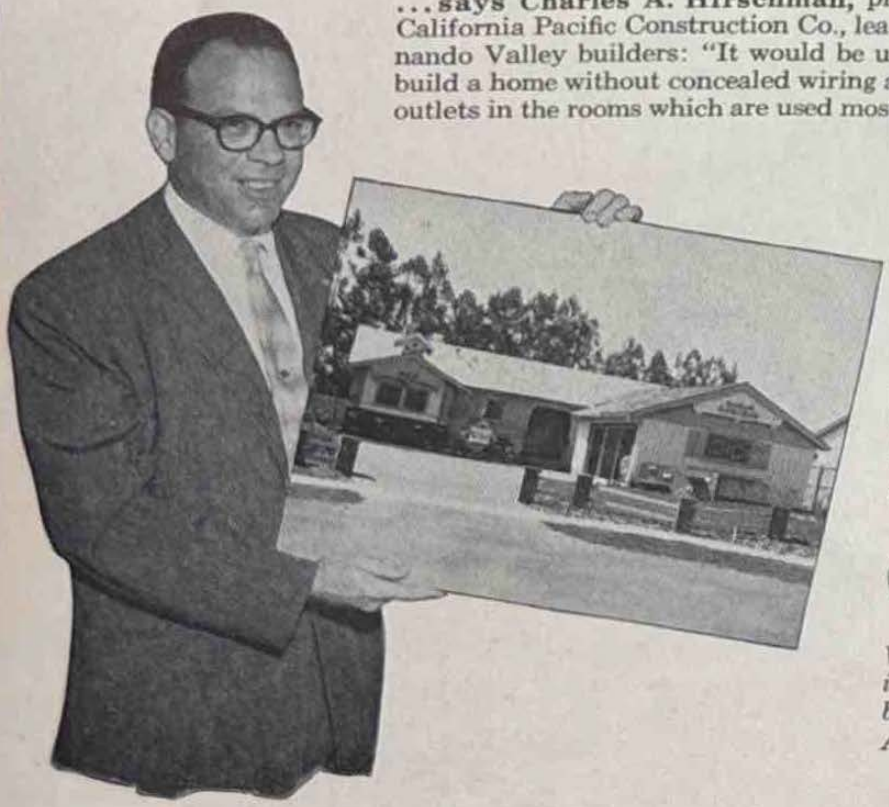
✓ Seattle architect J. Lister Holmes has been elected chairman of the city's newly created Board of Adjustment, which will hold public hearings on applications for conditional uses of property in various zoning districts and requests for zoning variance under the city's new zoning code.

STRUCTURAL ENGINEERS: The 1957 convention of the Structural Engineers Association of California will be held October 31-November 1 at Hotel del Coronado near San Diego. One of the program highlights will be a panel discussion on costs and limitations of concrete construction methods.

✓ PA&B editor Robert E. Koehler will address the Structural Engineers of Oregon on the construction outlook at a meeting September 25 in Portland's Timber Topper.

PROFESSIONAL ENGINEERS: Dr. Joseph Kaplan of UCLA will be among the speakers at the convention of the Professional Engineers of Oregon in the Eugene Hotel, Eugene, October 18-19.

Built-in phone outlets build up a home's value!



...says Charles A. Hirschman, president of the California Pacific Construction Co., leading San Fernando Valley builders: "It would be unthinkable to build a home without concealed wiring and telephone outlets in the rooms which are used most."

No matter how you look at it, as a builder or a buyer, you want a well-built home above all. And one of the features that speaks for a "quality" home is Telephone Planning. As Mr. Hirschman says, "Telephone outlets in rooms used most, concealed wiring and color phones add much to the value of the home." You'll find them in homes like Mr. Hirschman's, built with an eye to better living and satisfied buyers in mind.

Pacific Telephone

We'll be glad to help you plan built-in telephone facilities. Just call our business office and ask for our free Architects and Builders Service.

It pays to include Telephone Planning in every home you build!

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PA&B Suppliers

• **Gladding, McBean & Co.** of San Francisco has appointed the following 11 distributors in 12 northern California locations: American Distributing Co., Modesto; N. P. Bush Building Materials Co., Richmond; Construction Supply Co., Santa Rosa; H. W. Gentry Co., Walnut Creek; George C. Jacobs Co., Eureka; McPhail's, San Rafael; Morgan Bros., Patios, San Leandro; Provenzano Bros., Santa Cruz and Santa Clara; San Joaquin Materials Co., Fresno; Trico Building Supplies, San Carlos; and McLeod & Clark Corp., San Francisco.

• **The Trane Co.** has promoted Robert W. Thomas, member of the firm's Los Angeles office since 1950, to manager of its New York office.

• **Wiley-Bayley, Inc.,** Northwest distributor of Styrofoam, has moved to larger warehouse facilities at 3310 Meridian, Seattle, and has appointed W. Ken Brown as sales engineer for Oregon-southwest Washington area.

• **O'Keefe & Merritt Co.** of Los Angeles has appointed Edward Derenia as national manager of its built-in division. Succeeding him as manager of the northern California division will be Edward Sabo who has been acting as field manager.

• **Clingan & Fortier, Inc.,** an affiliate of Reynolds Metals Co. and one of the West's major distributors of the company's aluminum mill and building products, has changed its name to Reynolds Aluminum Supply Co. The firm was established in San Francisco in 1945 and now has 11 warehouses.

• **Kaiser Gypsum Co.** of Oakland has named George B. Kirk, formerly field service manager, to the post of director of research and development succeeding the late M. C. Dailey.

• **Steelcraft Manufacturing Co.** has appointed Richard C. Grinnell of Los Altos, Calif., as western sales representative.

• **Chase Brass and Copper Co.** has promoted Kenneth G. Downing from outside salesman in Kansas City, Mo., to resident salesman in San Francisco, replacing Eugene J. Wasilewski who has returned to the home office in Waterbury, Conn., as a specialist on copper roofing and allied products.

• **Hexcel Products, Inc.,** will build a $1 million plant for the manufacture of structural honeycomb core in the new Port of Oakland Industrial Park.

• **Fenestra, Inc.,** of Detroit has appointed Nelson C. Gibson, formerly western region sales engineer headquartering in its Seattle office, as

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LIFETIME PERIMETER INSULATION

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Styrofoam, a Dow plastic foam, is ideal for horizontal or vertical perimeter insulation and for insulation under slabs. Its non-interconnecting cells block out heat, cold and moisture. Easy-to-handle Styrofoam resists rot, mold and deterioration.

Styrofoam also excells as roof insulation and for insulation-plaster base against masonry walls. Contact Wiley-Bayley for complete information on Pacific Northwest Styrofoam installations and recommendations to fit your special requirements.

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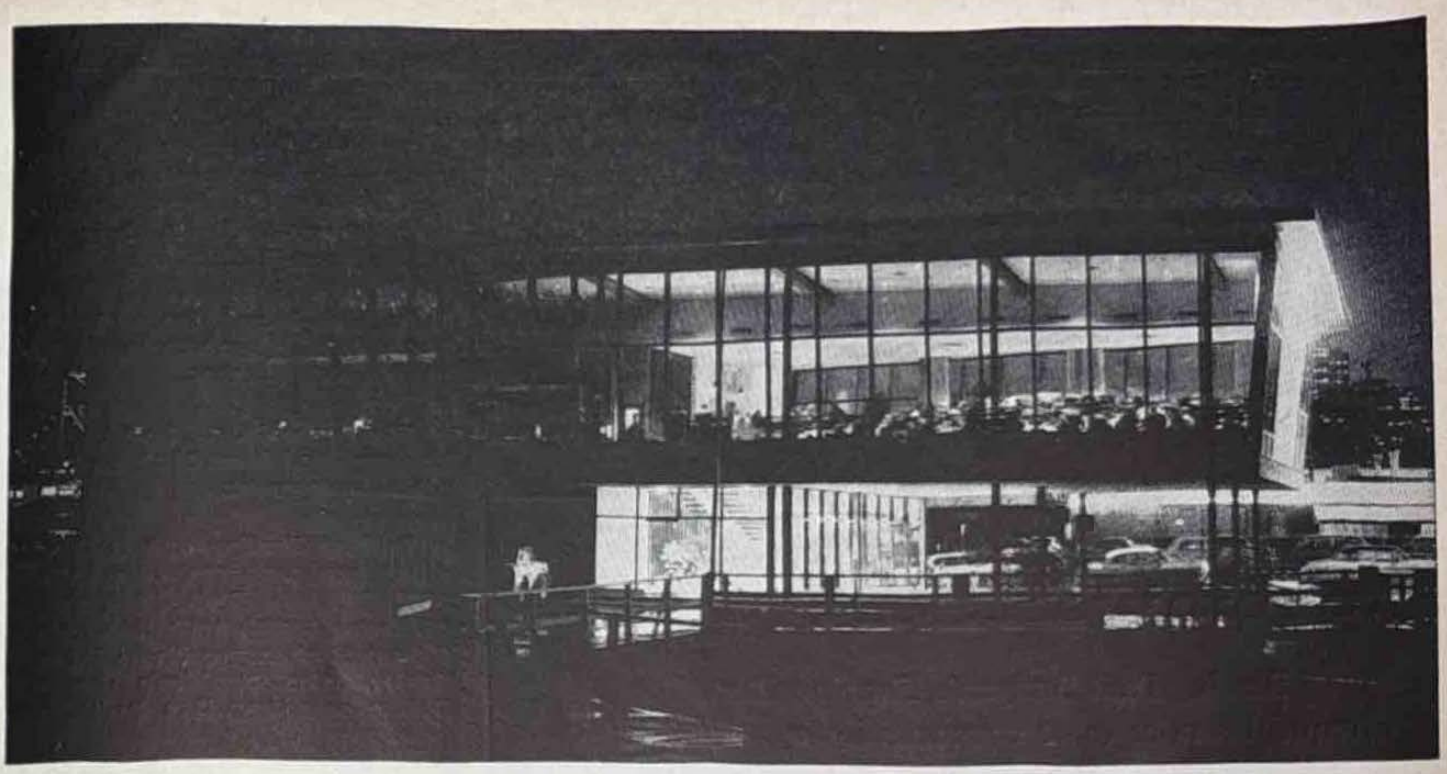
Wiley-Bayley Inc.

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Warehouses in Seattle, Portland, Spokane

SCHOOL FOR SALESMEN

Building materials and equipment manufacturers will have an opportunity this fall of enrolling their salesmen in a new training course aimed at improving their effectiveness in selling and servicing the architectural profession. The first schools will be held in the East, but negotiations are underway for a subsequent training course to be given in California. Further details may be obtained from Robert W. Hurst, executive assistant, Producers' Council, Inc., 2029 K St., N. W., Washington, 6, D.C.



Steel, glass, and redwood on *Fisherman's Wharf*

Architect: Hewitt C. Wells; *structural engineers:* John J. Gould and H. J. Degenkolb; *steel fabricator:* Schrader Iron Works; *contractor:* Charles O. Jones.





Designed with most of its steelwork exposed, the Franciscan Restaurant strikes a bold and appealing note in a colorful setting on San Francisco's waterfront. With accommodations for nearly 200 patrons on three levels, a fine view can be had in nearly all directions from the glass-enclosed upper floor.

Bethlehem eight-inch wide flange columns are bolted to foundation plates imbedded in the concrete mat which is seated above the water on new piling. The use of structural steel for both functional and decorative purposes allows maximum use of floor space and conveys an impression of both rigidity and lightness.

A floating stairway, fabricated by welding channels and plate, connects the glass-enclosed entrance on the ground floor to the upper level. Redwood planking adds a contrasting touch to both interior and exterior.

BETHLEHEM PACIFIC COAST STEEL CORPORATION

Sales offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

BETHLEHEM PACIFIC

BETHLEHEM STEEL

chief sales engineer for the building panel division. Fenestra has purchased all the outstanding common stock of Davidson Enamel Products, Inc., of Lima, Ohio.

• **The Mosaic Tile Co.** has set up a marketing department for its West Coast division, with Carl von Buelow in charge.

• **Weber Showcase and Fixture Co., Inc.,** of Los Angeles has appointed vice president E. O. Stevenson to head up sales for all divisions and to become assistant general manager of the firm's Grand Rapids, Mich., plant.

• **Aluminum Company of America** has announced a $10 million expansion of its plant at Wenatchee, Wash.

• **Pabco Paint Division** of Fibreboard Paper Products Corp. has promoted John A. Elliott to sales manager of its southern district with headquarters in South Gate, Calif.

• **Standard Pressed Steel Co.** will construct a $5 million, one-story plant employing about 500 persons in Santa Ana, Calif. Completion date has been set for early 1958.

• **Empire Building Materials Co.** of Portland has been appointed distributor of Blok-Joint, a rubber control joint for masonry walls, in Oregon and southwestern Washington.

• **Potlatch Forests, Inc.,** of Lewiston, Idaho is now manufacturing glued laminated 2x4 lumber.

• **The Payne Co.** of Monrovia, Calif., has appointed Owen McComas as general sales manager.

• **Radiant Heating and Cooling Institute** has been organized in Suite 318, 5657 Wilshire Blvd., Los Angeles (WEbster 4-1635), with these officers: George Rusher, president; Harry W. Taylor, vice president; Leroy C. Bishop, secretary; Don Smith, treasurer.

• **W. P. Fuller & Co.** has opened a general research laboratory in South San Francisco, which will serve as headquarters for three other company laboratories on the West Coast.

• **Rudd Manufacturing Co.** has appointed H. R. Basford Co. of San Francisco as distributor of its automatic gas water heaters in Oregon, Washington and parts of Montana and Idaho, in addition to a previous assignment which includes California.

• **Douglas Fir Plywood Association** has named Earl Pennington as field promotion manager of its newly established regional headquarters in San Francisco, serving northern California and Nevada.

• **Soule Steel Co.** of San Francisco has promoted L. M. Elmburg from Los Angeles district engineer and assistant sales manager to chief engineer for all company products.

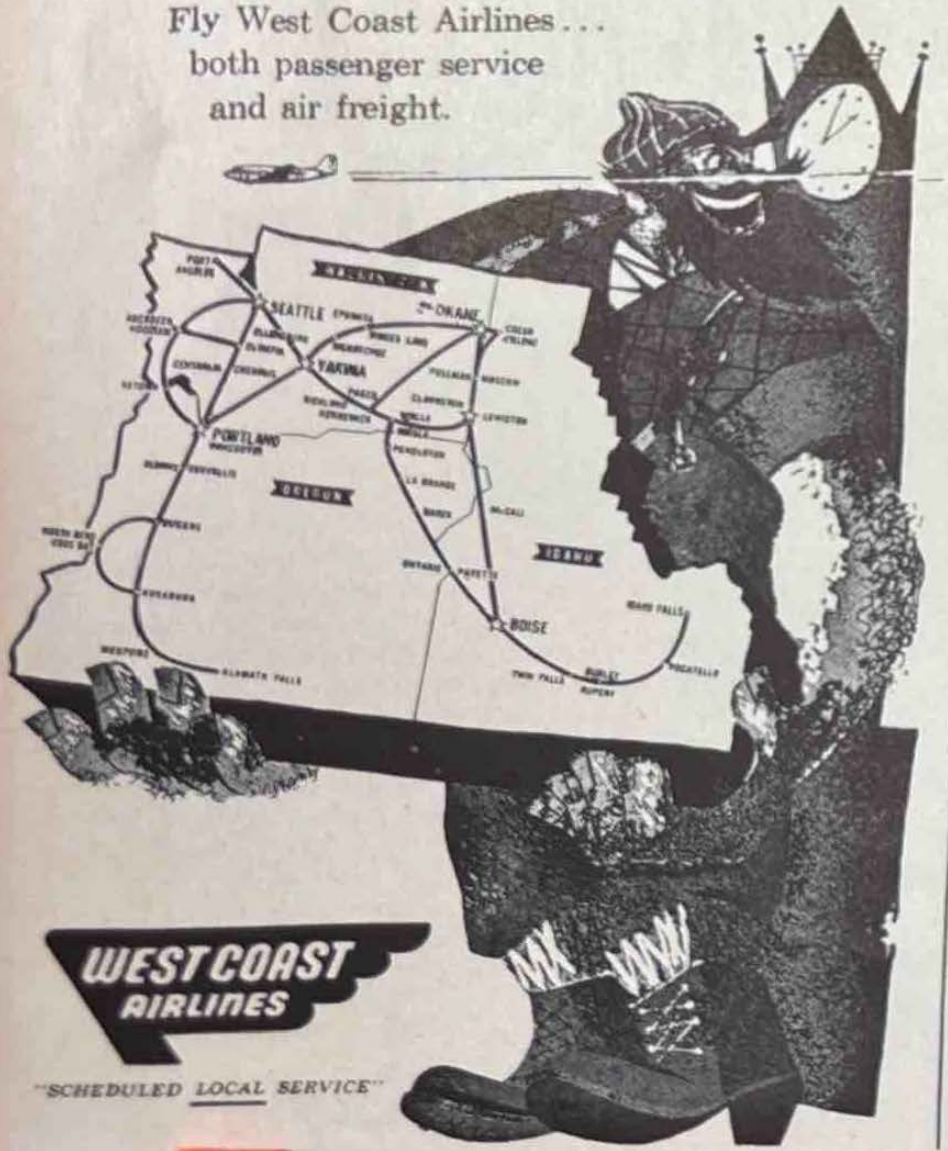
• **Dewey and Almy Chemical Co.** of San Leandro, Calif., has appointed Richard G. Allen as sales engineer for its construction specialty products in the western division.

• **Charles W. Lerch & Associates,** elevator consulting engineers, have named Vernon Zurick as manager of their newly opened San Francisco office in the Russ Building.

• **Armstrong Cork Co.** has announced these appointments: C. B. Sauer assistant district manager of the Los

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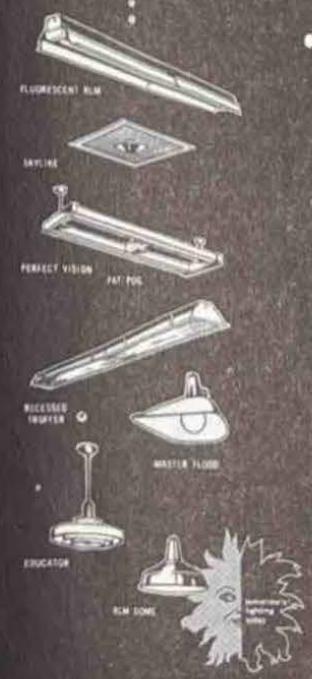
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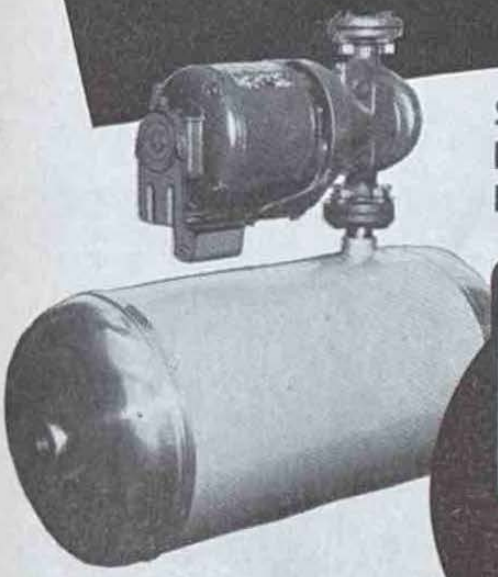
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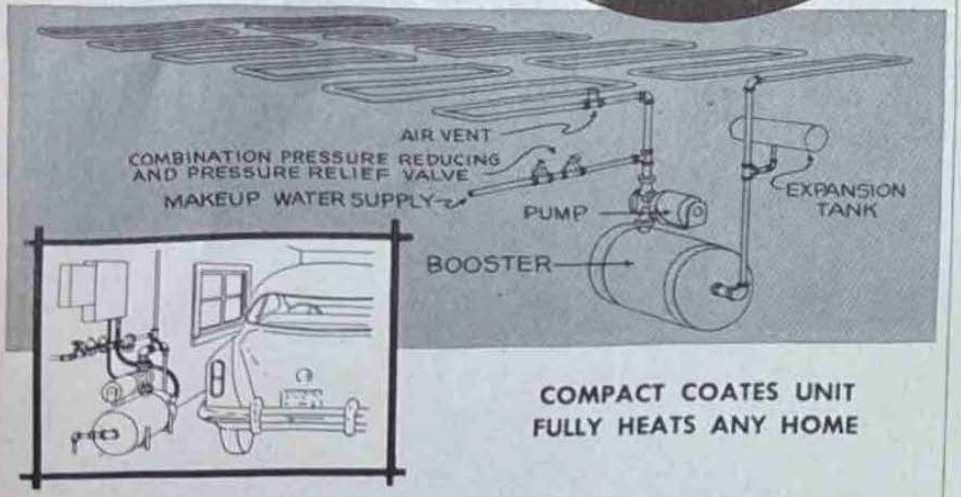
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Angeles office; and G. S. Griffith as resident architectural-builder consultant representative in Portland.

• **Triangle Steel Co.** of Los Angeles has promoted general manager James McLaughlin to vice president.

• **Western Reinforcing Steel Fabricators Association** at its first annual membership meeting in San Francisco elected these officers: George L. Cobb, Soule Steel Co., San Francisco, president; Leonard Ross, Blue Diamond Corp., South Alameda, Calif., vice president; Stephen G. Herrick, Herrick Iron Works, Oakland, secretary- treasurer. Directors, in addition to the officers, are William D. Roberts, Union Iron Works, Spokane; Henry Emmrich, Judson-Pacific-Murphy Corp., Emeryville, Calif.; Ray E. Copeland, Southwest Steel Rolling Mills, Los Angeles.

The new association is headquartered at 1322 Webster St., Oakland, under the managership of F. S. Clough.

Publicity for architect's office (Cont'd from p. 20)

The exceptionally high quality of the editorial staffs of the architectural press in both national and regional publications is of particular value to the profession. The same can be said of consumer and general interest publications which have a concern for the architect's work.

The architect who submits material has certain obligations to the publication. At all times he must be honest. Integrity is essential to good relations. Do not include any unverified information, no matter how minute it may seem. A simple error of brand name may be embarrassing for the publication and may involve complications on the business side. If the publication cannot live happily with its advertisers, it cannot survive to publish the architectural work in an objective manner. By helping the editor maintain the highest standards of accuracy, the architect also helps maintain a publication of independence.

Another obligation of the architect who works with an editor is that of respect for the publication's ideas. No one outside an editorial office has the right to announce what is intended for publication. The architect with whom the magazine works for advance material should not divulge such confidence until the editor releases the information.

Based on an address given before Seattle area architects August 26 at a meeting sponsored by Pacific Architect and Builder

Construction News Bulletin

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Dorothy McCormick.....News Editor Win Romtvedt.....Portland News Manager
Sandra Phillips.....News Staff Dorene Davis.....News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

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

OREGON

★FIRE STATION PAINTING—Albany, Ore.

Ray Cegavske of Albany was awarded the contract on a low bid of $1,090 by Arthur R. Johnson, city recorder, City Hall, Albany, for painting the exterior of the fire station in Albany. Bids opened August 14.
SP 9-5. Previous report 8-9

● POST OFFICE REPAIRS— Baker, Ore.

Bids to be opened 3 p.m., P.S.T., September 30, by General Services Administration, Room 126, Federal Office Bldg., Seattle, for improvements and repairs to the U.S. Post Office, Dewey and Auburn Ave., Baker, Ore.; SEA-828. Plans with Design and Construction Division, 909 1st Ave., Seattle.
DM 9-18

GRADE SCHOOL— Beaverton, Ore.

Bond election for $415,000 to be held September 24 by Beaverton School District No. 48, Washington County, Errol Hassell, superintendent, C.E. Mason School, 1250 N.E. Center St., Beaverton, for construction of the first unit of a new grade school on a site northwest of Vista Hills and southwest of Ridgewood. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. First unit will include at least 10 classrooms and auxiliary rooms.
WB 9-18

HOUSE TRAILER PLANT— Bend, Ore.

Details in connection with construction of a house trailer manufacturing plant in Bend have been agreed upon with Cletus Henslee, trailer manufacturer, and members of the Bend Chamber of Commerce. The chamber of commerce will sponsor an expansion fund of $50,000. In addition, a 160'x250' building will be erected by local persons. Several groups are said to be willing to undertake the construction, and three sites are under consideration. It is hoped the building can be completed in about three months.
SE 9-13

★SCHOOL ADDITION, ALTERATIONS— Blue River, Ore.

Award announced by Blue River School District, Blue River, for construction of a 48'x12' frame addition and for alterations to the high school. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene. Bids opened September 9. AWARD: Cascade Contractors, Box 774, Eugene, $9,582.
OTHER LOW BIDS: J. M. Steinmuller, Jr., Box 3302, Eugene, $9,776; David Carmiencke, 425 Harlow Road, Eugene, $10,442.
DW 9-13. Previous report 9-5

APARTMENT REMODELING— Bonanza, Ore.

A building permit has been issued to Clyde Wooten, owner of Puddy Apartments, Bonanza, for construction of second bedroom additions to two of the four apartments in the building.
ZZ 9-14

● HIGH SCHOOL— Brownsville, Ore.

Plans will be available about the first week in October and bids will be opened 8 p.m., October 29, by Central Linn County High School District No. 552-C, L. Emmett A. MacKay, superintendent, Brownsville, for construction of a 65,000 sq. ft. brick and laminated beam and arch high school at Brownsville. Plans nearly completed by Dougan & Heims, architects, 401 Royal Bldg., Portland. The new district is composed of Shedd, Brownsville and Halsey districts, located near Albany. Bids for equipment, including bleachers, backstops and furniture, will be opened at the same time.

School will consist of interconnected units, and will include regular classrooms, junior high wing, special classrooms, gym, cafetorium, and shops. Laminated beams and arches; SCR brick walls; cemented wood fibre roof decking; aluminum sash; bonded rofs; maple flooring in gym; resident flooring throughout; considerable cabinet work in place of partitions; considerable perforated hardboard wall finish; oil-fired, steam heating; high velocity ventilating system; fluorescent lighting.
WB 9-17. Previous report 6-19
(School Projects, Albany, Ore.)

★RESIDENCE— Chiloquin, Ore.

Contract negotiated with Jacob Disch & Son, Lakeshore, Ore., by Mr. and Mrs. Joe Bettles of Chiloquin for construction of pumice brick and frame, 1,400 sq. ft., residence on Lakeshore Highway west of Chiloquin.
ZZ 9-17

CITY HALL— Eugene, Ore.
(Estimated cost $1,000,000)

The Eugene City Finance Committee has approved steps toward erection of a new city hall in Eugene. The committee has voted to recommend to the full city council that preliminary steps be taken including selection of a site. No indication has been made as to what architectural firm may be selected to prepare the plans. The city hall might be included in the park space as part of a municipal center group.
SC 9-14

ADDITIONAL FAMILY HOUSING— Kingsley Field, Ore.
(Estimated cost $1,000,000)

Plans have been completed by Howard R. Perrin, architect, 1121 Main St., Klamath Falls, for an additional 70 housing units of standard construction at Kingsley Field, Klamath Falls, Ore. The units will be similar to the 220 units on which bids opened September 5. Bids will be called, after Senate Armed Forces Committee approval, by U.S. Air Force, Purchasing and Contracting Office, Headquarters Bldg., Kingsley Field, Klamath Falls.
ZZ 9-11

■ SCHOOL ADDITION—Klamath Falls, Ore.
(Estimated cost $65,000)

Planholders announced for bid opening 8 p.m., September 23, by Board of Trustees, Klamath Falls School District No. 1, Klamath Falls, Ore., for construction of a one-story, 5,600 sq. ft. brick veneer addition to the Joseph Conger Elementary School at California and Delta streets in Klamath Falls. Plans with Morrison and Howard, 203 Williams Bldg., Klamath Falls, $25 deposit.

Planholders: Burkhard Construction Co., 4867 Harlan Drice, Klamath Falls; Brosterhous Construction Co., 1541 Elm St., Klamath Falls; Duncan Construction Co., P.O. Box 1088, Klamath Falls; Deller Construction Co., 292 Roan Drive, Eugene, Ore.; Browning-Randolph Co., 520 Ben Vista Ave., Salem, Ore.
ZZ 9-17. Previonus report 9-4

★EXPERIMENTAL AREA BUILDING— Klamath Falls, Ore.
(Funds budgeted $35,000)

Award by Klamath County Court, Courthouse, Klamath Falls, for construction of a one-story, 80'x37' pumice block office building at Klamath Experimental Area seven mi. south of Klamath Falls. Plans by Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls. AWARD: Burkhard Construction Co., 4867 Harlan Drive, Klamath Falls, $32,722 ($32,000 basic plus $671 alternate for vinyl-asbestos flooring and $62 alternate for aluminum sash). OTHER BIDS: Duncan Construction Co., Box 1088, Klamath Falls, $32,800 (basic), $820 (flooring), $56 (sash); Brosterhouse Construction Co., 1541 Elm, Klamath Falls, $33,081, $671, $62. Bids were opened September 13.
ZZ 9-17. Previous report 9-4

● SCHOOL ADDITION— Lacomb, Ore.

Bids will be opened 8 p.m., September 30, by School District No. 73-C, Linn County, Roxanna M. Seits, clerk, Lacomb Elementary School, Lacomb, for construction of 40'x60', wood frame multipurpose room addition to the school. Plans with John K. Smeed, architect, 8313 S.W. Barbur Blvd., Portland. $30 deposit. Bid guarantee 5%.

Concrete floor; frame walls; painted and stained siding; deck purlins, glued-laminated beams and built-up roofing; prefaced hardboard wainscots; mechanical exhausts, incandescent lighting.
WB 9-13

● EXTERIOR PAINTING— La Grande, Ore.

Bids will be opened 3 p.m., September 25, by General Service Administration, room 126, Federal Bldg., 909 1st Ave., Seattle, for exterior painting at the U.S. Post Office in

La Grande; Proj. No. SEA-558. Specifications with above office. SP 9-14

RESTAURANT, APARTMENT UNITS—
Madras, Ore.

Reconstruction underway, under the supervision of Construction Superintendent Jim Duncan, on the 56'x73' frame restaurant building, known as Sonny's Steak House, in Madras, for owner Sonny Endres of Madras. The restaurant building was razed by fire August 7. Building will have semi-flat insulated roof; covered terrace; knotty pine and white fir paneling; radiant floor heating system. Plans by Kenneth Wollenweber, architect, 765 Park East, Eugene. Also planned is a 40'x70' three-family apartment building at the east end of the Steak House site. SC 9-13

PULP AND PAPER PLANT—
Mid-Columbia Area, Ore.

A preliminary analysis by Sandwell & Co., Inc., 206 6th Ave. N., Seattle, indicates that sufficient material is available in the Mid-Columbia area to support a pulp and paper development. Cooperating agencies, including Wasco County, City of The Dalles, Port of The Dalles, Port of Hood River and Port of Cascade Locks, must decide whether to retain the Sandwell firm for further specific studies on supply and potential site for such a development. SC 9-17

★CLASSROOM UNIT, SHOP—Mill City, Ore.

Award to Hampton C. Platt, Box 27, Salem, $192,500 (base bid) by Linn County Union High School District No. 9-Jt, Mill City, for construction of a classroom unit and shop building at Mill City. Plans by Benjamin E. Cave, architect, 3240 Triangle Drive, Salem. DM 9-18. Previous report 9-12

★MEDICAL-DENTAL BUILDING—
Milwaukie, Ore.

Award to James S. Hickey, Inc., 523 S.E. Stark St., Portland, $136,987, by Dr. Russell Sweeney, owner, Milwaukie, for medical-dental building on Washington St. in Milwaukie. Plans by Scott & Payne, architects, 511 Builders Exchange Bldg., Portland. Construction will start immediately. WB 9-17. Previous report 8-24

SCHOOL CONSTRUCTION—Milwaukie, Ore.

Bond election for $595,000 will be held October 1 by Milwaukie School District No. 1, Clackamas County, Arwid W. Bertman, clerk, 2145 Monroe St., Milwaukie, for additional classrooms at Campbell and Ardenwald grade schools, six rooms at Ickes Junior High School, new grade school, and sites for the grade school and a future junior high school. WB 9-18

ICE PLANT— Newport, Ore.
(Estimated cost $100,000)

Plans announced by Point Adams Packing Co., Newport, for construction of an ice plant on a site adjoining the present plant in Newport. Construction will start next spring. SC 9-13

★ELECTRIC CO-OP ADDITION—
Oakridge, Ore.

Award announced by Lane Electric Co-op, Glen Sawyer, manager, 1715 Franklin Blvd., Eugene, for construction of a concrete block addition to the co-op's office in Oakridge. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene. Bids opened September 9. AWARD: Adkins & Turner, 850 Oriole St., Eugene, $3,721. OTHER LOW BIDS: Maurice Holst, Box 171, Oakridge, $2,547 (asked to be relieved from contract).; Cascade Contractors, Box 774, Eugene, $9,880. DW 9-13. Previous report 9-5

▲MEDICAL CLINIC ADDITION—
Portland, Ore.

Bids received in office of Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland, for a three-story, 42'x104' reinforced concrete addition to Medical Clinic, 4212 N.E. Broadway, Portland. BIDDERS—GENERAL: Teeples & Thatcher, 8850 S.E. Otty, $241,900; E. E. Settergren, 3723 S.E. 21st Ave., $247,900; R. L. Greene, 3505 N.E. Broadway, $252,837; E. Carl Schiewe, 1024 N.E. Davis St., $254,794; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $258,000; Contractors, Inc., 1101 N.E. 21st Ave., $259,340; Blanchard Construction Co., 2546 S.W. Vista Ave., $286,700. HEATING AND VENTILATING: J. M. Harder Plumbing & Heating Co., 2148 N.E. Union Ave., $45,820; Kleanair Furnace Co., 5329 N.E. Sandy Blvd., $50,694. All of Portland. Bids opened September 13.
WB 9-17. Previous report 9-10

OSTEOPATHIC HOSPITAL—Portland, Ore.

Plans are expected to be released to a select list of bidders this week by Scott & Paqne, architects, 511 Builders Exchange Bldg., Portland, for construction of one-story and daylight basement, reinforced concrete hospital at S.E. 28th Ave. and Steele St., Portland, for Portland Osteopathic Hospital, Robert Chambers, business manager, 616 N.W. 18th Ave. Bid call is pending approval of revised scheme by public officials in San Francisco. The plan has been reduced in size in some areas.

Modified U-shaped structure, one five-acre site; facilities include surgery, radiology, maternity suite, kitchen, laundry. Open web structural joist system with metal deck; concrete roof and floor; aluminum window walls with porcelain enamel panels and some brick veneer on exterior; metal studs, lath and plaster interior partitions; battleship linoleum, asphalt tile, vinyl, conductive and ceramic tile flooring; some acoustical tile ceilings; oil-fired hot water heating system; separate air conditioning for surgical and obstetrical wings; incandescent lighting; emergency generator; service and passenger elevators; central oxygen system; nurses' call system; stainless or enamel-finish steel cabinets; built-up roofing. Assisting with plans with Fritz Klawa, electrical engineer, 1200 S.W. Stark St.; James G. Pierson, structural engineer, Concord Bldg., and W. Bruce Morrison, mechanical engineer, Cascade Bldg.
WB 9-17. Previous report 7-24

●■BUILDING ADDITION—Portland, Ore.

Bids will be opened 2 p. m., September 25, by Pacific Telephone & Telegraph Co., C. M. Twelves, chief engineer, 406 Lincoln Bldg., Portland, for construction of 55'x74' one-story and basement, reinforced concrete and masonly addition to ATlantic central office building at 2911 N.E. 24th Ave., Portland. Plans by Skidmore, Owings & Merrill, architects, 2040 S. W. Jefferson St., Portland. Select list of bidders.

Planholders: Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Henry M. Mason Co., 2206 N.W. Thurman St.; Dscar Wayman, 3125 N.W. Front Ave.; Andersen-Westfall & Co., Inc., 3427 N.E. Halsey St. All of Portland.
WB 9-17

★RECREATION CENTER (Site Clearing)—
Portland, Ore.

Award to John L. Jersey, Inc., 3647 S.E. 34th Ave., Portland, $9,850, by Portland Exposition-Recreation Commission, Carvel C. Linden, chairman, 623 Park Bldg., Portland, for razing buildings on three of the 22 acres in the Broadway-Steel Bridge site for the proposed Exposition-Recreation building.
WB 9-5. Previous report 8-30

★DORMITORIES (Site Work)—
Portland, Ore.

Award to Goodat Crane Service, 1735 S.E. Union Ave., Portland, $3,974, by Reed College, Eastmoreland, Portland, for rough grading in preparation for construction of four-building dormitory development at the college. Plans by Neil Farnham, Frank Shell and Charles Hoyt, architects, 4444 S.W. Corbett Ave., Portland. Bid call for dormitories will be issued about November.
WB 9-6. Previous report 8-24

BANK EXPANSION— Portland, Ore.

Two buildings at the S.E. corner of S.E. Washington St. and Grand Ave. have been acquired by the U.S. National Bank of Portland, E. C. Sammons, president, 321 S.W. 6th Ave., Portland, for expansion of the adjacent Citizens Branch Bank. Remodeling of the two buildings, one two- and one three-story, and drive-up windows and customer parking are planned. The bank will get possession of the 90'x100' property May 1, 1958. WB 9-7

★LOOKOUT TOWERS, HOUSES—
Portland, Ore.

Award to Lloyd Larsen, 4714 Old Pacific Highway, Vancouver, $4,682, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., room 207, Portland (P. O. Box 4137), for erecting 14'x14' lookout house with steel tower, including lightning protection, at Madison Butte, Umatilla National Forest. WB 9-17. Previous report 9-16

GRADE SCHOOL— Portland, Ore.

Bond election for $460,000 will be held September 24 by Russellville School District No. 40, Multnomah County, Frank C. Dempsey, clerk, 124 S.E. 102nd Ave., Portland, for construction of grade school on S.E. 117th Ave. between E. Burnside St. and S.E. Stark St. WB 9-17

CITY-COUNTY BUILDING—Portland, Ore.

A committee of two Multnomah County Commissioners and two Portland City Council members has been appointed to look into the advisability of acquiring the block between the Courthouse and City Hall, between S.W. 4th and 5th avenues, and Main and Madison streets, for a future city-county building. Representing the county are Commissioners M. James Gleason and Al Brown, and the city Commissioners Ormond R. Bean and Stanley W. Earl.

The Del E. Webb Construction Co., Phoenix, Ariz., recently indicated its interest in building a 14-story building for the county and city on a lease-purchase basis, but no decision on this plan has been announced.

HOUSING UNITS— Portland, Ore.

Plans underway by Don Byers, architect, 1620 S.E. Ankeny St., Portland, for 40 permanent, low-cost housing units in Columbia Villa Housing Project on N. Woolsey Ave., a few blocks north of Columbia Park. No date has been set by the Portland Housing Authority, C. S. McGill, executive director, 8920 N. Woolsey Ave., Portland, for a bid call. The houses will include 30 with three bedrooms and 10 with four bedrooms. They will replace temporary units at Parkside, across N. Burgard Ave. from the old Oregon Shipyard property. WB 9-12

★RE-ROOFING— Portland, Ore.

Award to D. & M. Builders Service, 6218 N.E. Columbia Blvd., $2,349, by city purchasing agent, 208 City Hall, Portland, for re-roofing and renewing flashings at St. John Community Center.
WB 9-12. Previous report 8-20

★CHAIRS— Portland, Ore.

Award to J. K. Gill Co., 408 S.W. 5th Ave., Portland, $3,172, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing 54 swivel armchairs for Circuit Court. WB 9-12. Previous report 8-29

MEDICAL-DENTAL BUILDING—
Portland, Ore.
(Estimated cost, $1,800,000)

Construction is being resumed by Reimers & Jolivette, general contractors, Builders Exchange Bldg., Portland, for the remodeling and expansion of the 9-story former Eastern Outfitting Co. building at S.W. Washington St. and 10th Ave., Portland, for Ben Dierks, owner, Grants Pass. Plans by Sundeleaf & Hagestad, architects, 202 Portland Trust Bldg., Portland.

The existing structure was stripped to the steel framework last winter; four floors and penthouse will be added; building will be reconstructed for medical-dental offices. Double-paned glass exterior; aluminum trim; blue spandrel panels; steel stud and plaster interior partitions; interior finishes to suit tenants; three Otis high speed automatic elevators; full air conditioning from central heating; individual thermostatic control in each office; public restaurant on ground floor. The architects are starting preliminary sketches for a 300-car parking garage, to be built on 100'x100' site of existing Blue Mouse Theater at 11th and Washington.

The following Portland firms have been awarded sub-contracts on the project: PLUMBING—Gaittehs Plumbing & Heating Service, 4306 N. Williams Ave. HEATING, VENTILATING—A. G. Rushlight & Co., 3900 N.W. St. Helens Road. WIRING, FIXTURES—Lord Electric Co., 535 S.W. Clay St. ELEVATORS—Otis Elevator Co., 230 N.W. 10th Ave. MILLWORK—Builders Wood Products, Inc., 8018 S.E. 17th Ave. STRUCTURAL STEEL—Poole, McGonigle & Dick, 6330 N.E. Halsey St. STRUCTURAL STEEL ERECTION—Steel Construction Co. of Oregon, 5300 N.W. Front Ave. GRANITE, MARBLE—Lutz Marble Co., 1421 S.W. Broadway. ROOFING, SHEET METAL—J. C. Bayer, Inc., 14 S.W. Market St. MISC., ORNAMENTAL IRON—Portland Wire & Iron Works, 4644 S.E. 17th Ave. METAL DOORS, HOLLOW METAL—Grand Metal Products Corp., 2340 S.E. Gladstone St. ARCHITECTURAL ALUMINUM—Losli Sheet Metal Works, 115 S.W. Montgomery St. LATH AND PLASTER—Billings & Cronn, 6119 N.E. Sacramento St. CERAMIC TILE—Multnomah Tile & Mantel Co., 302 N. Broadway. TERRAZZO—J. A. Wiley Co., 2603 S.E. Grand Ave. FLOOR COVERING—Hollywood Floors, 1845 N.E. 41st Ave. ACOUSTICAL CEILINGS—Johnson Acoustical & Supply Co., 1219 S.E. Lafayette. INSULATION—Armstrong Cork Co., 2356 N.W. 21st Place. GLASS, GLAZING—W. P. Fuller & Co., 2181 N.W. Nicolai St. HARDWARE—Builders Hardware & Supply Co., Inc., 515 S.W. Pine St. PAINTING—Wesley A. Sundeleaf, 8018 S.E. 17th Ave. METAL TOILET STALLS—W. H. Kress Co., Concord Bldg. WB 9-13

● METAL BUILDINGS— Portland, Ore.

Bids will be opened 11 a.m., September 26, by U.S. Forest Service, regional supply officer, room 114, 729 N.E. Oregon St., Portland, for furnishing 13 small prefabricated metal buildings, complete with structural framing, roofing, siding, anchor bolts, door, hardware, ventilating louver, etc., fob. Bend, Pendleton, Medford, John Day, Burns, and Lakeview, all in Oregon; and Concrete, Twisp, Chelan, Amboy, and Shelton, all in Washington; Bid No. 119. Erection not in contract. WB 9-13

●■ PAROCHIAL SCHOOL—Portland, Ore.

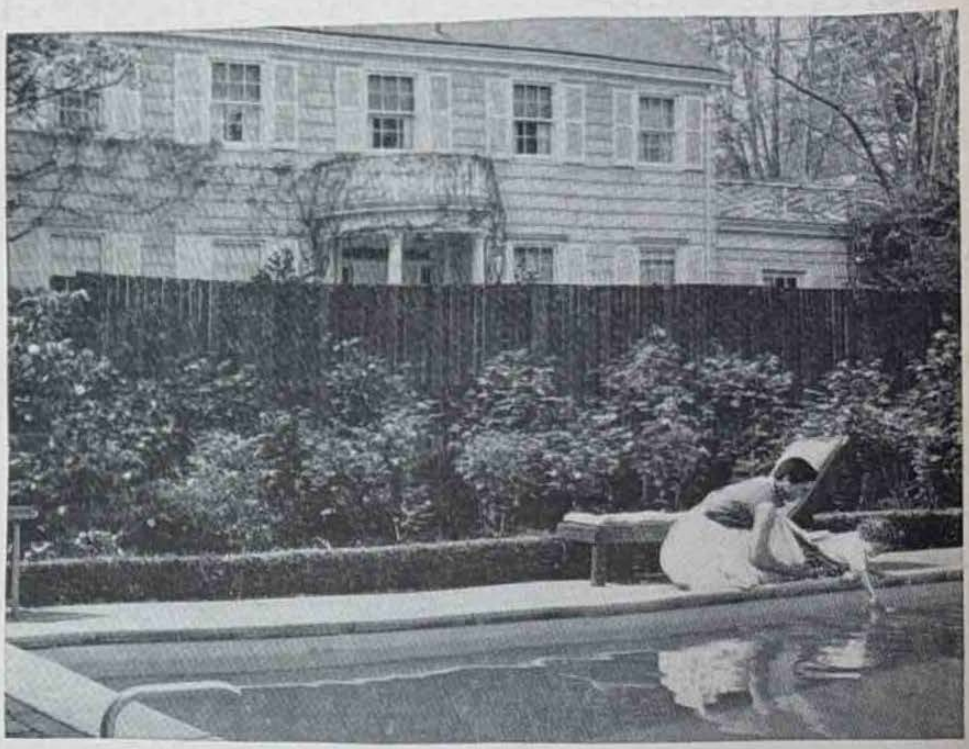
Bids will be opened 2 p.m., October 1, in office of Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland, for one-story with partial basement parochial school building for Trinity Lutheran Church, Rev. Eric Eichmann, pastor, 2928 N.E. Dunkley St. Select list of general, mechanical and electrical bidders.

Planholders—GENERAL: Blanchard Construction Co., 2546 S.W. Vista Ave.; Robertson, Hay & Wallace, 1801 S.E. Grand St.; Beebe Construction Co., 2134 N. Flint Ave.; E. Carl Schiewe, 1024 N.E. Davis St.; James S. Hickey, Inc., 523 S.E. Stark St.; Jones-Balgemann Builders, 1839 N.E. Couch St. MECHANICAL: Harder Plumbing & Heating Co., 2148 N.E. Union Ave.; Buchanan Co., 1518 N.E. Killingsworth St.; Lord Bros., 9233 N. Calvert Ave.; Widmer Plumbing & Heating Co., 900 S.E. Sandy Blvd.; Vengelen & Vincent, 2400 E. Burnside St.; Urban Plumbing & Heating Co., 2904 S.W. 1st Ave.; Northwest Plumbing & Heating Co., 3024 N.E. Alberta St. ELECTRICAL: Dimitre Electric Co., 133 S.W. 2nd Ave.; Ace Electric Co., 3525 N.E. Broadway Ave.; Harold Electric Co., 1701 S.W. Jefferson St.; Emory & Bohm Electric Co., 516 N.W. 14th Ave.; McCoy Electric Co., 2002 S.E. Clinton St.; Jaggar-Sroufe Co., 939 S.W. 10th Ave.; Broadway Electric Co., 1818 S.E. 7th Ave. Of Portland.

Site is N.E. 55th Ave. and Killingsworth St. Building will include six classrooms, combination gymnasium and auditorium (for temporary use as church), church and principal's offices, toilet rooms, dressing room, boiler room, and Sunday school rooms in basement. Frame construction of brick frame with brick veneer; aluminum sash; glued-laminated beams with tongue and groove decking, 1" insulation and built-up roofing; auditorium will have concrete block main walls and glued laminated arches; ⅝" gypsum board wall finish; acoustical tile ceilings; concrete floors; asphalt tile floor covering with rubber base; maple floor in

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gym; ceramic tile floors and wainscots in toilet rooms; hot water boiler with unit ventilators in classrooms and some hot water baseboard units; site grading; blacktopped parking area; septic tank and field; most cabinet work to be done by owner.
WB 9-18. Previous report 12-15

★**SERVICE CENTER BUILDING— Prineville, Ore.**

Award to DeGree Construction Co., 1820 Awbrey Road, Bend, approximately $90,000, by Pacific Power & Light Co., Paul B. McKee, president, Public Service Bldg., Portland, for construction of 77'x72', one-story, concrete service center building at N. Court and 4th streets. Plans by Sundeleaf & Hagestad, architects, Portland Trust Bldg., Portland. Bids opened August 14.
WB 9-17. Previous report 8-8

PLYWOOD PLANT— Roseburg, Ore.

Construction of a new plywood plant at Roseburg is included in the $10,000,000 the United States Plywood Corp., New York, plans to spend during the next fiscal year. The firm also plans the addition of pulp and paper facilities to two West Coast plants before the year ends April 30, 1958. SC 9-17

▲**RANGER RESIDENCES— Roseburg, Ore.**

Bids received by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for construction of two ranger station residences, single-story, 60'x30', and 50'x40', frame construction, at Layng Creek Ranger Station, Lane County, and at Tiller Ranger Station, Douglas County. BIDDERS: Robert Curtis, 434 N.E. Cummings, Roseburg, (Layng $15,846, (Tiller) $21,658, (total) $37,504; James & Streitzke, Roseburg, $18,790, $19,918, $38,708; Rogue Valley Construction Co., Roseburg, no bid, $19,546; Hampton C. Platt, Box 27, Salem, $22,000, $22,000, $44,000. Bids opened September 11.
WB 9-13. Previous report 8-30

CORRECTIONAL INSTITUTION— Salem, Ore.

The state emergency board will be requested by Oregon State Board of Control, State Capitol Bldg., Salem, to allocate $731,000 from the emergency fund to cover the difference between the low bid ($2,684,112) and the amount of money available ($2,500,000) for construction of the first unit of the correctional institution to be located on a 10-acre site five mi. southeast of Salem. By accepting some alternates, the board of control reduced the cost of the proposed structure so that $731,000 will be a sufficient emergency appropriation.
SC 9-14. Previous report 9-5

★**STATE OFFICE BUILDING REPAIRS— Salem, Ore.**

Award to Erwin Batterman, 147 S. Commercial, Salem, $136,860, by William C. Ryan, secretary, Oregon State Board of Control, 124 State Capitol Bldg., Salem, for structural repairs, including floor rehabilitation and rewiring, for the State Capitol Bldg. Plans by William I. Williams, architect, 1390 N. Capitol, Salem. LB 9-18. Previous report 9-4

★**RESIDENCE— Springfield, Ore.**

Award to Hal Bailey, 919 Laurelhurst Drive, Eugene, $17,978, by owner Wayne Nysten, c/o architect Donald A. Lutes, U. S. National Bank Bldg., Springfield, for construction of a wood frame five-bedroom residence on N. 58th St. in Springfield.
DW 9-12. Previous report 9-5

■ **SCHOOL ADDITION— Toledo, Ore.**

Additional planholders announced for additions to Cannon School, northeast of Toledo, for use as high school. Bids will be opened 11 a.m., September 26, by Lincoln County School District, M. C. Huff, superintendent's office, County Court House, Newport. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Additional planholders: Sterner Construction Co., 13845 S.E. Rhine St., Portland; E. E. Batterman, 147 N. Commercial St., Salem; Todd Building Co., P. O. Box 27, Roseburg; Todd Building Co., P. O. Box 27, Roseburg; Floyd Grubb, 1305 S. 20th St., Salem.
WB 9-18. Previous report 9-12

● **RANGER RESIDENCES— Unity, Halfway, Ore.**

Bids will be opened 2 p.m., P.S.T., October 1, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for construction of Unity and Halfway ranger station residences, one-story frame structures, 50'x40' and 64'x30', Wallowa-Whitman National Forest, Baker County, Ore.; Bid No. 120. Plans with supply officer or with Forest Supervisor, Post Office Bldg., Baker.
WB 9-17

● **COTTAGE— Warm Springs, Ore.**

Bids will be opened 2 p.m., October 10, by Bureau of Indian Affairs in the Portland Area Office, 1101 N.E. Lloyd Blvd., Portland, for construction of a three-bedroom cottage at Warm Springs. Plans with Don C. Foster at the above Portland address. Certified check or cashier's check 5%. The structure is to be built on the site of the Indian School at Warm Springs, about 104 mi. southeast of Portland via U. S. Highway No. 26. Design on this cottage is of a different design than that bid on September 5. No award will be made on the latter.
DM 9-18

▲**SHOP BUILDING— Winston, Ore.**

Bids were rejected by Douglas County School District No. 116, Winston, for construction of a prefabricated metal L-shaped shop building at Douglas High School in Winston. Plans by Lyle F. Glenn, architect, 309 Pacific Bldg., Roseburg. Bids opened September 11. LB 9-18. Previous report 9-5

MacLAREN SCHOOL COMPLETION— Woodburn, Ore.

Bid opening postponed indefinitely from September 24 by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem, for one-story reinforced concrete addition of three units to MacLaren School for Boys near Woodburn. Plans by Whitney, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland. The project is postponed until a new superintendent has been appointed, as some of the applicants are opposed to the type of units.
WB 9-17. Previous report 9-6

WASHINGTON

HOSPITAL CONSTRUCTION— Washington

Allocations of $1,117,227 in federal Hill-Burton funds to assist five hospital and health department construction projects in Washington have been recommended by the executive committee of Washington Hospital Advisory Council. The five were those with highest priority among the 15 projects for which funds were sought. The allocations will be given final approval by Dr. Bernard Bucove, state health director. Projects approved, and funds allocated, were: Grays Harbor Community Hospital, Aberdeen-Hoquiam, for replacement of hospital, $680,000; Okanogan-Douglas County Hospital District No. 1, Brewster, replacement of hospital, $210,985; Good Samaritan Hospital, Puyallup, remodeling and addition, $53,800; Yakima Valley Memorial Hospital, Yakima, addition, $35,000; Tacoma-Pierce County Health Department, Tacoma, completion of two floors of County-City Bldg. for Health Department use, $137,442. SC 9-17. Previous report 8-28

▲**BANK BUILDING— Aberdeen, Wash.**

Bids received by First Federal Savings & Loan Association, Finch Bldg., Aberdeen, for construction of a two-story, 130'x50', steel beam and column office building at the northwest corner of Broadway and Market in Aberdeen. Plans by Robert Street, architect, Lafayette Bldg., Aberdeen. Bids opened September 9. LOW BIDS: Fraser Construction Co., 314 W. Wishkah, Aberdeen, $168,330; Ed Lundgren, 809 N. K St., Aberdeen, $169,380; John Peterson, 205 4th St., Hoquiam, $169,543. SC 9-13. Previous report 8-31

OIL REFINERY— Anacortes, Wash.

Contracts will not be let until late September or early October by Bechtel Corp., general contractors, 220 Bush St., San Francisco, Calif., on construction of a 5,600' pier on the northwest tip of March's Point, an administration building, laboratory, utility building and marine warehouse at the new Texas Oil Co. refinery now under construction near Anacortes. Bids for the construction are being accepted until September 13.
ET 9-10. Previous report 8-31

CLUBHOUSE— Anacortes, Wash.

Plans are nearly complete by Don L. McKee, architect, 915 5th, Anacortes, for a new clubhouse for the Yacht Club to be located on a 150'x360' lot in the fill area at Cap Sante waterway. A building is being moved onto the site now, for use as temporary clubhouse until financing is completed and construction of the new club is possible.
ET 9-11

● **SCHOOL ADDITIONS— Battleground, Wash.**

Bids will be opened 8 p.m., October 7, by School District No. 119, Clark County, Earl W. Jackson, clerk, Superintendent's Office, Battleground, for alterations and three wood frame additions to the shop building (Slevoire Hall) at Battleground High School. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Additions are 80'x800' area with auto shop, two adjacent classrooms, storage and toilets; 48'x20' area with classroom and adjacent perimeter corridor; 24'x39' addition to present wood working shop. Concrete slab floors; brick veneer exterior; wood sash; composition and composition shingle roofing; stud framing with concrete blocks; mostly exposed concrete floors; some asphalt tile flooring; exposed block, plywood and gypsum board interior wall finishes; acoustical tile; gypsum board and plywood ceilings; incandescent lighting; forced air heating and unit heaters from existing system; exhaust systems; heavy power loads. Alterations include cutting new window openings through concrete block and brick veneer; finishes similar to new work, except some tongue and groove fir ceilings and some plaster walls. WB 9-17

★**DEPARTMENT STORE— Bellevue, Wash.**

Contract negotiated with Hainsworth Construction Co., 3028 Western Ave., Seattle, by Bellevue Properties, 1603 76th Ave. N.E., Bellevue, for construction of a 40,000 sq. ft. two-story steel frame department store west of the A & P market in Bellevue Shopping Square. J. C. Penney Co., Inc., will lease the building. Plans by James Klontz & Associates, architects, Dexter Horton Bldg., Seattle.
SP 9-13. Previous report 9-10

★**LUTHERAN CHURCH— Bellevue, Wash.**

Award to Merle P. Songstad, J. S. Ditty Bldg., Bellevue, $44,577, by St. Luke's Lutheran Church, ELC, John Larsgaard, pastor, 10250 N.E. 30th Place, Bellevue, for construction of a one-story 4,500 sq. ft. Lutheran church on 104th N.E. between Bellevue and Kirkland. Plans by Grant, Copeland & Chervenak, architects, 420 E. Howell, Seattle.
SP 9-13. Previous report 8-30

★**CONGREGATIONAL CHURCH— Bellevue, Wash.**

Award to Herbert U. Taylor, 11239 Arroyo Beach Place S.W., Seattle, $88,366, by Eastgate Congregational Church, Frank Kelsey, pastor, 15350 S.E. 45th, Bellevue, for construction of the first unit of a three-unit plant for the church on Farmer Road across the street from Eastgate Elementary School. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.
SP 9-13. Previous report 8-21

★**PHANTOM LAKE SCHOOL (Phase 2)— Bellevue, Wash.**

Awards announced by Bellevue School District No. 405, George B. Brain, superintendent, for construction of the remaining six buildings of the seven-building Phantom Lake Elementary School on 160th Ave. S.E. in the Lake Hills area east of Bellevue. Plans by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. AWARDS—GENERAL: Venne Beauchamp, Box 637, Everett, $309,074. MECHANICAL: Navarre Plumbing & Heating Co., 3839 Stone

Way, Seattle, $74,757. ELECTRICAL: Valley Electric Co., 125 W. Main, Auburn, $42,202. SP 9-14. Previous report 9-5

BELLINGHAM HIGH SCHOOL ADDITION— Bellingham, Wash.
(Estimated cost $131,200)

State matching funds in the amount of $25,351 have been approved by the State Board of Education toward construction of a one-story, 9,565 sq. ft., concrete music building addition to be located at the north end of Bellingham High School at Kentucky and Cornwall streets in Bellingham, for Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham. Plans underway by Galen Bentley, architect, 1130 State St., Bellingham.
SC 9-13. Previous report 8-22

★REROOFING BUILDINGS— Bremerton, Wash.

Award to A. M. Weyland, 4134 C St., Bremerton, $7,820, by Department of the Navy, Public Works Department, Bldg. 78, Puget Sound Naval Shipyard, Bremerton, for removal of existing slate shingles, placing of new asbestos-plastic shingles, and repair or replacement of metal flashing on four buildings at U. S. Naval Hospital, U. S. Naval Base, Bremerton; Spec. No. 1219/57.
SP 9-7. Previous report 8-31

▲PUD BUILDINGS— Brewster, Omak, Wash.

Bids received by Okanogan PUD No. 1, Okanogan for construction of a warehouse and remodeling an office building at Brewster, for construction of an office building at Omak and for construction of a loading dock at the PUD warehouse in Okanogan. Plans by Alvin E. Erickson, architect, Central Bldg., Wenatchee. BIDDERS: Claude Gann, Okanogan, $30,164; Lowry Construction Co., Box 1013, Wenatchee, $32,880; Armstrong & Armstrong, Box 59, Wenatchee, $33,637; Cusicks Inc., Box 652, Wenatchee, $38,490. DM 9-17. Previous report 8-23

HOSPITAL ADDITIONS— Brewster, Wash.
(Estimated cost $320,000)

Bond election will be held October 8 by Okanogan-Douglas County Hospital District No. 1, Brewster, for funds to aid in financing conversion of the present McKinley Hospital building into a nursing home and construction of a new general hospital building as a separate unit in Brewster. Superintendent of the hospital is Howard M. Gamble. Architects are Grant, Copeland & Chervenak, 420 E. Howell, Seattle.

A. F. Moberg, acting director for Northwest Operations for the Housing and Home Finance Agency, 450 Federal Office Bldg., 909 1st Ave., Seattle, has approved an advance of funds amounting to $6,400 to provide preparation of preliminary plans and cost estimates for the improvement and addition project. Part of the construction money will be provided from Hill-Burton funds.
SP 9-6

CHURCH— Camas, Wash.
(Estimated cost $375,000)

Excavation will start soon in preparation for construction of the new Assembly of God church just west of the One-Stop area on the Evergreen Highway in Camas, according to Rev. Ernest Mattson, pastor of the church. Foundation work for the church will start by the end of this year. Plans call for Sunday school facilities for about 300, and sanctuary with the same capacity.
SC 9-7

PLYWOOD PLANT EXPANSION— Centralia, Wash.
(Estimated cost $150,000)

Central Plywood, Inc., George Rakness, plant manager, Central Blvd., Centralia, has started on a modernization and expansion project at the plywood plant, including construction of a 60'x100' building and installation of a hot press.
SC 9-11

■SCHOOL— Centralia, Wash.

Planholders announced for construction of a one-story, 71,000 sq. ft., concrete and frame, 750-student junior high school consisting of four separate buildings to be located on Borst Park site in Centralia. Bids will be opened 8 p. m., October 10, by Centralia School District No. 401, 415 W. Pear, Centralia. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

Planholders: Standard Construction Co., 315 E. 25th, Tacoma; Ketner Bros., Inc., 419 St. Helens Ave., Tacoma; Leavitt Chandler, Box 6, Bellevue; Construction Engineers & Contractors, 801 Port of Tacoma Road, Tacoma; Grays Harbor Construction Co., Box 703, Aberdeen; Anderson Construction Co., 115 S. 9th, Tacoma; G. Kirkebo & Sons, 1410 Mt. View Drive, Tacoma; Newland Construction Co., 3302 Hill, Everett; Conners Electric, 103 S. 28th, Tacoma.
HH 9-13. Previous report 9-6

GOODYEAR PLANT ADDITION— Chehalis, Wash.
(Estimated cost $11,000)

Plans announced by Goodyear Tire & Rubber Co., R. W. Jenkinson, plant manager, Chehalis, for immediate construction of an additional building at the plant south of Chehalis. The 60'x40' masonry structure will be situated adjacent to the railroad spur in the plant area and will connect with the existing building. Handling and storage facilities for carbon black will be provided.
SC 9-17

DORMITORY— Cheney, Wash.
(Estimated cost $350,000)

Plans announced by Eastern Washington College of Education, Don S. Patterson, President, Cheney, for construction of a dormitory to house 200 men students. The state has given permission for the college to finance the construction through sale of $600,000 in bonds. Existing dormitory space at the college will be filled beyond capacity this fall.
LC 9-18

BANK— Clarkston, Wash.
(Estimated cost $300,000)

Final approval has been received from the National Bank of Commerce, 2nd and Spring, Seattle, for construction of a new bank on the north side of Elm St. between 6th and 7th streets in Clarkston. I. N. Knutson is manager of the Clarkston branch of the bank. Architects are George W. Stoddard-Huggard & Associates, 1120 Harvard, Seattle.
DR 9-7. Previous report 8-23

★CHURCH ADDITION—Coulee City, Wash.

Award to Basin Builders, Box 914, Ephrata, no amount available, by the Presbyterian Church at Coulee City, for construction of an addition to the church. Plans by Donald R. Hollingberry, architect, W. 1551 Highway 10, Moses Lake. Bids opened August 26.
LL 9-13. Previous report 8-23

■HIGH SCHOOL— Darrington, Wash.

Planholders announced for construction of a one-story, 10-classroom high school at Darrington, on which bids will be opened 8 p. m., September 23, by Darrington School District No. 330, in the office of the superintendent at the high school in Darrington. Plans with Harold W. Hall, architect, Commerce Bldg., Everett.

Planholders—GENERAL: Sanford Wright, 302 Clark Bldg., Everett; Venne Beauchamp, Box 637, Everett; Van Werven & Van Andel, 517 Front, Lynden. MECHANICAL: Haskell Plumbing & Heating, 1509 Cornwall, Everett; Callahan Plumbing & Heating, 3211 Broadway, Everett; Home Building & Heating Co., 4246 Rainier Ave., Seattle; Stoll & Freese Plumbing & Heating, 103 W. Main, Edmonds. ELECTRICAL: Holert Electric, 2300 W. Spokane, Seattle; Maier's Electric & Appliance, 2008 Hewitt, Everett; McInnis Electric, 221 State, Marysville.
HH 9-13. Previous report 9-5

BAPTIST CHURCH—East Wenatchee, Wash.

The Douglas County Commissioners, Courthouse, Waterville, are considering approving a site requested by the Missionary Baptist Church for construction. The site is located at the Breezy Point service station south of East Wenatchee.
SC 9-11

SCHOOL ADDITION— Eltopia, Wash.

Working drawings are nearing completion by Charles A. Baylon, architect, 912 Elliott Ave. W., Seattle, for construction of a 30'x75' two-classroom addition to the new elementary school, about 13 miles north of Eltopia on the Pasco-Spokane Highway. Tilt-up concrete panels (with concrete block alternate); concrete slab-on-grade; built-up roof, 3" t&g decking; glued laminated beams; wood sash; asphalt tile flooring; perforated acoustical tile ceilings; connected to existing heating system, unit ventilators.
PD 9-12

●BUILDING ADDITIONS— Enumclaw, Wash.

Bids will be opened about October 3 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for United States Army Reserve Leased Facility, involving modifications and additions to an existing building, 1233 Stevenson Ave., Enumclaw; ENG-45-108-58-16. Specifications with above office. Work includes addition of electrical wiring and fixtures, interior partitions, exterior sign and incidental modifications.

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★CHURCH— Ephrata, Wash.

Award on construction of one-story, 5,600 sq. ft. slab-on-grade first unit for a new church at C and 1st N.W., Ephrata. The structure, to be used as a Sunday School, will be built for The Community Methodist Church, 117 C St., N.W., Ephrata. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. AWARD: Yager Construction Co., 1st and A St. S.E., Ephrata, $51,909. 2ND LOW: Columbia Construction Co., Box 275, Moses Lake, $52,179. 3RD LOW: Westover & Hope, Quincy, $52,700.
LL 9-17. Previous report 8-30

SUPERMARKET— Ephrata, Wash.

Contract may not be awarded until spring of 1958 by T.B.&M. Supermarkets, Silverdale Highway, Bremerton, for construction of a new supermarket in Ephrata. Plans by Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle. Low bidder in the fall of 1957 was Oelke Construction Co., 1574 B St. S.W., Ephrata, with $136,816.
SP 9-6. Previous report 11-27, '56

● FOLDING GYM SEATS— Everett, Wash.

Bids will be opened 8 p.m., October 7 by School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett for furnishing and installing folding gym seats at the New Physical Education Bldg. at Everett Junior College. Specifications with above office. HH 9-17

● FIRE SIGNAL BUILDING— Everett, Wash.

(Estimated cost $180,000)

Bids to be opened 10 a.m., October 8 by City Council, City Hall, Everett for construction of a two-story and basement, 12,438 sq. ft. fire alarm signal building for the city. Plans with Botesch & Brown, architects, 504 Commerce Bldg., Everett. $15 deposit. Certified check, cashier's check or bid bond 5%.

Reinforced concrete footings, foundations; concrete block and brick walls; precast channel slab floors; concrete beams, precast slab roof; masonry and frame partitions; wood, concrete and metal stairways; steel windows painted interior and exterior wall finish and trim; plaster, metal lath and gypsum lath partitions; asphalt tile, ceramic tile flooring; plaster ceilings; rigid insulation in roof; steam heating system, oil fired; ventilating ssytem.
DC 9-17. Previous report 8-22

WAREHOUSE TERMINAL— Everett, Wash.

(Estimated cost $40,000)

Construction to start soon by Newland Construction Co., Box 230, Everett, on a terminal and warehousing area, involving a 50'x150' concrete slab and concrete block building, for Coast Truck Lines, 3115 McDougall, Everett. The project is the first unit of a warehouse-terminal and industrial area to be developed at 34th and Spruce streets in Everett. HH 9-12

APARTMENT HOUSE— Ferndale, Wash.

Town Council, Town Hall, Ferndale, is considering a request submitted by D. C. Heide of Ferndale for an eight-unit apartment house. ET 9-10

REST HOME— Ferndale, Wash.

(Estimated cost $50,000)

Plans have yet to be approved by City Planning Commission of Bellingham and by the state for construction of a one-story 33-bed rest home in Ferndale on the Herbert Lewis property located adjacent to an undeveloped street deeded to the city. Plans by Gordon Walker & Associates, architects, 319 E. Champion, Bellingham.
ET 9-7. Previous report 8-28

● BUILDING, DRIVEWAY ALTERATIONS— Hoquiam, Wash.

Bids to be opened 3 p.m., September 27, by General Services Administration, 126 Federal Office Bldg., Seattle, for building and driveway alterations at the U.S. Post Office, M and 8th streets, Hoquiam; SEA-552. Plans with Seattle office. DM 9-17

LODGE TEMPLE— Kelso, Wash.

(Estimated cost $200,000)

Members of the Kelso Elks Lodge have voted to authorize trustees to arrange financing for a new lodge temple adjacent to the Kelso Elk's golf course. Plans for the building are underway and the tentative schedule calls for construction to start in the spring. Project is expected to include golf, lodge and club facilities. SC 9-17

▲FIRE STATION— Kennewick, Wash.

Bids received by William Hansen, city manager, City Hall, Kennewick, for construction of a new fire station in Kennewick. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima. Bids opened September 10. LOW BIDS: Charles Dunham, Kennewick, $28,954; Don Crow, Kennewick, $,30,422; Ray Britton, Box 667, Kennewick, $30,644.
IG 9-13. Previous report 9-5

▲SCHOOL ADDITION— Kent, Wash.

Bids received by Kent School District No. 415, 9800 Kent-Black Diamond Road, Kent, for construction of an 8,000 sq. ft. one-story six-classroom school building to be constructed at O'Brien Elementary School on O'Brien Road (S. 212th St.) and SSH No. 5M. Bids opened September 12. Plans by Mallis & DeHart, architects, 613 Lyon Bldg., Seattle. LOW BIDS — GENERAL: C. E. Skinner, Box 706, Orting, $65,992; Norge Construction Co., 5008 Admiral Way, Seattle, $66,000; C. Nilson & Son, 20 First St. S.E., Auburn, $70,415. MECHANICAL: Boyker Plumbing & Heating, 202 1st Ave. S., Kent, $19,482; Reynolds Plumbing & Heating, 110 Railroad Ave. S., Kent, $21,685; L. G. Massart Plumbing & Heating, 4501 9th Ave. N.W., Seattle, $22,757. ELECTRICAL: Gracey Electric, 5204 Pritchard, Seattle, $5,360; Keystone Electric, Skinner Bldg., Seattle, $6,100; Fox & Nystrom Electric, 207 E. Meeker, Kent, $6,129. PD 9-14. Previous report 9-7

ELEMENTARY SCHOOL ADDITIONS— Kent, Wash.

(Estimated costs $85,195, $80,815)

State matching funds in the amounts of $55,865 and $53,003 have been approved by State Board of Education towards an addition to East Hill Elementary School and an addition to Panther Lake Elementary School, respectively, for Kent School District No. 415, 9800 Kent-Black Diamond Road, Kent.
SC 9-18

RESIDENCE— Kirkland, Wash.

(Estimated cost $25,000)

Working drawings are nearing completion by Cummings & Martenson, architects, 250 Market St., Kirkland, for a two-level and basement wood frame residence in Kirkland. Stone veneer, cedar siding exterior; pitched roof, wood shake, built-in gutters; wood sash, aluminum ventilating windows; drywall partitions; incandescent lighting; cork tile, slate, vinyl tile flooring; wood cabinets; two stone fireplaces; oil-fired forced warm air heat; aluminum reflector type insulation in attic and some walls. PD 9-5

★ELEMENTARY SCHOOL ADDITIONS— Lacey, Wash.

Award to low bidder Korsmo Bros., 155 E. 123rd, Tacoma, $62,240, by North Thurston School District No. 3, Harold E. McCaslin, clerk, North Thurston High School, Lacey, for construction of additions and alterations to the South Bay Elementary School in Lacey. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. Bids opened September 11.
HH 9-14. Previous report 9-7

LDS CHURCH— Longview, Wash.

Working drawings are underway by Ben F. McAdoo, Jr., architect, 1718 Olive Way, Seattle, for construction of a one-story and partial basement, 9,500 sq. ft. LDS church on the corner of 17th and Kesler, Longview. Raymond F. Breese of Longview is pastor.
PD 9-12. Previous report 7-9

CHURCH EDUCATION BUILDING— Longview, Wash.

The Longview Planning Commission, City Hall, Longview, has granted approval for construction of a church educational building adjoining the sanctuary at First Baptist Church, 1718 E. Kessler Blvd., Longview. The structure will be located at 1170 17th Ave. SC 9-18

★PORCH ENCLOSURE, PAINTING— Medical Lake, Wash.

Award to Sceva Construction Co., N. 2928 Madelia, Spokane, $6,666, by Department of Institutions, Olympia, for enclosing the Edison Hall porch and painting the Spruce Hall porch at Lakeland Village, Medical Lake.
DE 9-14. Previous report 9-5

HIGH SCHOOL ADDITION— Mercer Island, Wash.

(Estimated cost $167,251)

State matching funds in the amount of $129,352 have been approved by State Board of Education toward construction of an addition to the high school at Mercer Island, for Mercer Island School District No. 400, Box 215, Mercer Island. SC 9-18

■ PASADENA PARK SCHOOL— Millwood, Wash.

Planholders announced for construction of the 13-classroom Pasadena Park School in Millwood on which bids will be opened 2 p.m., September 24, by Millwood School District No. 143, in the office of the architect, George Rasque & Sons, Washington Trust Bldg., Spokane.

Planholders—GENERAL: Henry George & Son, Hutton Bldg.; Hazen & Clark, W. 108 Boone; Johnson - Busboom - Rauh, N. 601 Cedar; William F. Spilker & Son, Route 5; S. G. Moring & Sons, 411 W. 2nd; Purvis Construction Co., Box 64, Yardley; Kenneth Custis, 741 E. 23rd. MECHANICAL: Peck & Gale, S. 211 Washington; C. E. Womack, 328 Jefferson; Senna Service, N. 732 Napa; McClintock & Turk, N. 3812 Division; Spokane Plumbing and Heating, N. 613 Monroe; James Smyth, N. 216 Division; Arnold & Jeffers, N. 1309 Ash; Adams & Little, N. 1329 Howard; Mank & Sons, E. 1722 Sprague. ELECTRICAL: Brown-Johnston Co., N. 118 Lincoln; Electric Smith, E. 123 Sprague; Power City Electric, N. 920 Howard; Kehne Electric, N. 416 Helena; Maxwell's, Inc., E. 14 Mission; Mott Electric, E. 3915 Trent; Pacific Electric, S. 507 Sherman. Of Spokane unless noted.
LL 9-17. Previous report 9-10

HIGH SCHOOL— Mossyrock, Wash.

(Estimated cost $480,341)

State matching funds in the amount of $53,517 have been approved by State Board of Education toward construction of a new high school building at Mossyrock, for Mossyrock School District No. 206, Mossyrock. Plans underway by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. SC 9-18. Previous report 7-31

HIGH SCHOOL—Mountlake Terrace, Wash.

Preliminary plans will be started soon by architect Ralph Burkhard, 2120 S.W. 152nd, Seattle, for a high school in Mountlake Terrace, for Edmonds School District No. 15, Harold Silvernail, superintendent, 4th and Daley, Edmonds. PD 9-5

JUNIOR COLLEGE— Mount Vernon, Wash.

(Estimated cost $1,479,630)

State matching funds in the amount of $1,111,616 have been approved by State Board of Education toward construction of the proposed 110,298 sq. ft., one-story, 820-student capacity Skagit Valley Junior College at Mount Vernon, for Mount Vernon Union High School District No. 1, 314 N. 9th, Mount Vernon. Plans by Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle.
SC 9-18. Previous report 8-28

STATE LIBRARY— Olympia, Wash.

Working drawings are completed by Paul Thiry, architect, 800 Columbia St., Seattle, for the 60,000 sq. ft. state library building between Public Lands-Social Security and the Transportation buildings in Olympia. Bids will be called late September for opening in early October.

Reinforced concrete, Wilkeson exterior; flat built-up roof, fiberglass insulatin in roof; aluminum sash; steel stud and plaster partitions; rubber tile flooring; extension of existing central steam plant, air condition-

ing; fluorescent lighting; some mechanical work. Plans include steel book stacks, an electric book lift, a self-operating type elevator. Herculite entrance doors.
PD 9-5. Previous report 5-22

★TELEPHONE BUILDING—
Pacific Beach (near Hoquiam), Wash.

Award to Lamb Construction Co., foot of F St., Aberdeen, by Pacific Telephone & Telegraph Co., W. J. Billings, division manager, 1200 3rd St., Seattle, for construction of a one-story concrete block 26'x36' telephone building at Pacific Beach, north of Hoquiam. The structure will be built near the existing telephone center and will have reinforced concrete floor slab and footings and a flat roof. Bids opened September 6.
SP 9-13. Previous report 8-29

■COLLEGE BUILDINGS— Pasco, Wash.

Planholders announced for construction of steel and block buildings, including a 41,290 sq. ft. classroom building, a 17,697 sq. ft. gymnasium-music building a 14,578 sq. ft. vocational-technical school building and boiler plant additions, at the Columbia Basin College site near the airport at Pasco. Bids will be opened 8 p.m., September 25, by Pasco School District No. 1, 517 N. 3rd St., Pasco. Plans with Victor Louis Wulff, architect, E. 1526 Riverside, Spokane.

Planholders: H. Halvorson, Inc., Box 6, Yardley; E. C. Mardis, Grigg Bldg., Pasco; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata; Murray Construction Co., Box 193, Kennewick; Gilbert Moen, 516 S. 5th, Yakima; Jensen-Rasmussen, Box 89, Sunnyside; A. Ritchie, Box 516, Walla Walla.
SC 9-14. Previous report 9-6

▲SWIMMING POOL— Prescott, Wash.

Bids received by Prescott School District No. 402, P. C. Manning, superintendent, Prescott, for construction of a swimming pool, wading pool and bathhouse at Prescott. Plans by H. Brandt Gessel, architect, 214 E. Birch, Walla Walla. Bids opened September 11. Bids were invited on Proposal 1 for swimming pool, wading pool and bathhouse complete; Proposal 2 for the two pools without decking and bathhouse, and Proposal 3 for lump sum for bathhouse and deck. BIDDERS: Gun-Crete Co., 1615 N. 19th, Salem, Ore., $45,650, proposal 2; Joe E. Venne,, 407 12th St., Sunnyside, $95,270, proposal 1; Salem Sand & Gravel Co., 1405 N. Front St., Salem, $47,760, proposal 2; Henry E. Gross, 448 Boyce Ave., Walla Walla, $114,-916, proposal 1, $54,038, proposal 2, $60,878, proposal 3; Elvrum Construction Co., 316 N. 12th, Pasco, $101,975, $58,475, $43,500.
SC 9-14. Previous report 9-7

★HOSPITAL— Prosser, Wash.

Award announced by Adams County Hospital No. 1, Prosser for construction of a 35½'x40½' south wing addition and 40'x55' north wing addition and installation of new elevator apparatus in new wing, at Prosser Memorial Hospital in Prosser. Plans by Whitehouse, Price, DeNeff, architects and E. J. Deeble, associate, 715 Hutton Bldg., Spokane. GENERAL—AWARD: Rupp Bros. Construction Co., Prosser, $90,930 (basic plus $450 alternate). OTHER BASIC BIDS: Jensen-Rasmussen Co., Box 89, Sunnyside, $95,-340; Gilbert H. Moen, 516 S. 5th, Yakima, $105,640; Murray Construction Co. Box 193, Kennewick, $107,854; Howard E. Martin, Sunnyside, $110,277. MECHANICAL — AWARD: Randolph & Taylor, Pasco, $47,-800. OTHER BIDS: J. P. Head, Pasco, $47,-830; Central Heating & Plumbing, Yakima, $51,143; W. R. O'Rourke, Walla Walla, $56,-258. ELECTRICAL — AWARD: Creamer Electric, Yakima, $14,706. OTHER BIDS: Duke's Electric, Pasco, $14,725; Smith & Wilson, Union Gap, $16,192. Bids were opened September 12.
DC 9-17. Previous report 8-30

PHYSICAL EDUCATION BUILDING—
Puyallup, Wash.

Puyallup School District No. 3, Paul B. Hanawalt, superintendent, 605 W. Main, Puyallup, recently selected a site on 7th and Main streets, across from the high school, in Puyallup, for construction of a 189'x148'x 35' physical education building for the district. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma.

Plans call for four teaching stations in the building, two on the 96'x108' main floor (which can be subdivided by a folding partition into two 57'x96' areas), and two smaller balcony areas which will be 40'x96' each. Recessed bleachers seating about 3,-000 person will be pulled out when the main floor is used for basketball games or community events. Construction plans tentatively call for reinforced concrete walls; glued laminated wood beams; plastic windows on lower floor; brick veneer exterior. Two large shower rooms and storage areas will be provided.
SC 9-5. Previous report 8-1

AGRICULTURAL STATION EXPANSION—
Puyallup, Wash.

Plans announced by Washington State College, Pullman, for a long-range expansion program at the Western Washington Experiment Station in Puyallup and at six other state experiment centers, including stations at Vancouver, Mount Vernon and Ilwaco. Included in the Puyallup station work will be an $875,000 plant science building with adjacent laboratories. Other plans under consideration by the college Legislative Budget Committee included about 19 projects totaling $500,000.
SC 9-13

▲RESIDENCES—
Quinault Ranger Station, Wash.

Bids received by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, Ore., for construction of two Quinault Ranger Station residences, Grays Harbor County, Olympic National Forest, Wash. BIDDERS: King Construction, Longview, $46,938; Levage Construction Co., Box 2355, Parkland, $47,792; C. E. Skinner, Box 706, Orting, $51,114; R. J. Smith, Bremerton, $54,990; DelGuzzi Construction Co., Port Angeles, $56,435; Grays Harbor Construction Co., Box 743, Aberdeen, $57,000. Bids opened September 11.
WB 9-13. Previous report 9-5

MEDICAL OFFICE BUILDINGS—
Renton, Wash.

Working drawings will be completed soon by Kenneth S. Ripley, architect, 915 E. Pine, Seattle, for construction of two medical office buildings on 4th Place, Renton, one for Metclo, Inc., and one for Robert Evoy, M.D., Renton. Bids will be called in September.
PD 9-5

CITY HALL— Richland, Wash.
(Estimated cost $690,000)

Plans have been completed by architects Young, Richardson & Carleton, Central Bldg., Seattle, and architects are now studying ways to reduce the facilities to cut costs on the proposed city hall, to be located on a site across the street from the main fire station, in Richland. According to the Atomic Energy Commission, Box 550, Richland, a number of changes made in the preliminary plans last winter have brought the estimated cost from the original $550,000 to the cost noted above.
SP 9-14. Previous report 6-7

★INTERIOR PAINTING (Phase 10)—
Richland, Wash.

Award to Minor's Decorating Studio, Moses Lake, $84,674, by Atomic Energy Commission, Box 550, Richland, for phase 10 of a program for interior painting of about 364 housing units including 44 apartment units.
DM 9-18. Previous report 7-18

●PAINTING SHED— Seattle, Wash.

Bids to be opened 2 p.m., September 26 by Port of Seattle Commission, C. H. Carlander, secretary, 406 Bell St. Terminal, Seattle for painting the transit shed at Pier 48, Main St. Terminal, Seattle. Specifications with above office. $50 deposit. Cashier's check or bid bond 5%.
DC 9-17

●RESIDENCE— Seattle, Wash.

Bids will be opened September 30 from a select list of bidders, by owner Sam



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.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Steinberg, in the office of Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle, for construction of a one-story and basement wood frame residence on 35th Ave. between Columbia and Marion streets, Seattle. Brick veneer and cedar siding; pitched roof, composition shingle; aluminum sash, aluminum sliding doors; plaster partitions; hardwood paneling; oak slate, ceramic tile, cork, vinyl, asphalt tile flooring; birch cabinets; formica, tile counters; oil-fired forced air heat. Sub-contractors may see plans at Home Builders Assoc., 170 Mercer St., Seattle. PD 9-17

MOTEL— Seattle, Wash.
(Estimated cost $1,000,000)
Plans have been completed by Douglas W. Vicary, designer, and A. J. Mahoney, engineer, 2307 Rainier Ave., Seattle, for a three-story 100-unit motel to be constructed on concrete columns at 2201 7th Ave. in Seattle, for University Enterprises, 4728 University Way, Seattle. Parking area will be provided under the building. SP 9-17

● NAVAL BUILDING ALTERATIONS— Seattle, Wash.
Bids to be opened 2 p.m., P.S.T., September 26, by 13th Naval District, public works officer, Building 232, U.S. Naval Station, Seattle, for alterations to Building 208, Naval Station, Seattle. Plans with above office. Work involves installation of stud and gypsum board partitions, relite partitions, doors, hardware; patching floor covering; painting about 7,800 sq. yd.; recondition electric system. DM 9-17

★SANDPOINT SCHOOL— Seattle, Wash.
Awards announced by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of a one-story, 14-classroom school at 60th Ave. N.E. and E. 62nd, Seattle. Plans by George W. Stoddard-Huggard & Associates, architects and engineers, 1120 Harvard, Seattle. AWARDS—GENERAL: John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $366,498 (basic less four alternates). MECHANICAL: L. G. Massart Plumbing & Heating, 4501 9th Ave. N.W., Seattle, $83,713. ELECTRICAL: Hooper Electric Co., 215 Marion St., Seattle, $41,966.
PD 9-17. Previous report 9-11

● GRADE SCHOOL ADDITIONS— Seattle, Wash.
Bids to be opened 2 p.m., October 1 by Highline School District No. 401, Carl O. Laudenbach, assistant superintendent, 253 S. 152nd, Seattle for construction of additions totaling 18,000 sq. ft., to Marvista Elementary School at Marine View Drive and S.W. 199th Place, Seattle. Separate bids on general, mechanical and electrical. Plans with Waldron & Dietz, architects, 215 8th N., Seattle. $20 deposit.
Project involves two four-classroom cluster units and a multipurpose building with administrative, food service and kitchen facilities. Slab-on-grade; frame and pumice block exterior walls; steel sash; glued laminated beams; t&g decking; built-up roofing; plasterboard interior wall finish; acoustical tile and asbestos vinyl tile; extension of present heating system. DC 9-17

● JUNIOR HIGH SCHOOL ADDITION— Seattle, Wash.
Bids will be opened 8 p.m., October 17, by Shoreline School District No. 512, Myron Ernst, secretary, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for construction of additions to the Thomas Hunt Morgan Junior High School at 25th Ave. N.E. and E. 160th, Seattle. Bids may be on one or all three of the general, mechanical and electrical contracts. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Bid bond, certified check or cashier's check 5%. PD 9-17

OFFICE, WAREHOUSE— Seattle, Wash.
(Estimated cost $40,000)
Working drawings will be completed mid-September by Johnston & Campanella, architects, Box 600, Renton, for construction of a sales office and warehouse building north of the business district on East Valley Highway, Kent, for Stoneway Sand & Gravel Co., Maple Valley Highway, Renton. Bids will be called the latter part of September, with bidders limited to contractors in the south area (Kent, Auburn, Renton, etc.) Structural steel; concrete slab on grade; built-up roof; aluminum store front; asphalt tile flooring; gas-fired horizontal furnaces. PD-9-5

MUSICIANS BUILDING— Seattle, Wash.
Preliminary drawings will be started soon by Ibsen A. Nelsen, architect, 1314 E. 43rd, Seattle, for construction of a one-story building on 3rd Ave. and Cedar, Seattle, for Musicians Club, Local 76, Chet Ramage, business representative, 309 Center St., Seattle. Bids will be called in December, and it is hoped construction will begin the first part of 1958. Building will be constructed for future expansion into extra floors as needed for rental space. PD 9-5

★UNIVERSITY ALTERATIONS— Seattle, Wash.
Award to E. F. Shuck Construction Co., Inc., 535 Pontius, Seattle, $7,526, by University of Washington, 210 Administration Bldg., campus, Seattle, for alterations to the Department of Biochemistry, Health Sciences Bldg., Seattle. Plans by Naramore, Bain, Brady & Johanson, architects, and McClellan & Jones, associate architects and engineers, 904 7th Ave., Seattle.
SP 9-10. Previous report 8-28

CEDAR PARK ELEMENTARY SCHOOL— Seattle, Wash.
Working drawings are nearing completion by Paul Thiry, architect, 800 Columbia St., Seattle, for the 38,000 sq. ft. Cedar Park Elementary School, in northeast Seattle, for Seattle School District No. 1, King County, 815 4th Ave. N., Seattle. Reinforced concrete; monolithic concrete exterior; built-up roof; aluminum windows; plaster partitions; asphalt tile flooring; fiberglass insulation in roof; oil-fired hot water heat. Asphaltic concrete will be used in the play yard and parking areas. The 12 classrooms will be planned for future expansion to 18 classrooms.
Bids will be called in late October for opening the first part of November.
PD 9-11. Previous report 7-18

★ROOFING— Seattle, Wash.
Award to ABC Roofing & Siding, Inc., 41 Hinds, Seattle, $1,160, by Paul R. Hendricks, city purchasing agent, 511 County - City Bldg., Seattle, for installing a built-up roof on fire station No. 39, 12705 30th Ave. N.E., Seattle. PD 9-11. Previous report 9-6

★OVERHEAD APPARATUS DOOR— Seattle, Wash.
Award to Overhead Door Co., 3409 Stone Way, Seattle, $1,494, by Paul R. Hendricks, city purchasing agent, 511 County - City Bldg., Seattle, for installing overhead apparatus door. PD 9-11. Previous report 9-6

METHODIST CHURCH ADDITION, REMODELING— Seattle, Wash.
(Estimated cost $75,000)
Working drawings are nearing completion by Cuykendall Iles & Blean, architects, Arcade Bldg., Seattle, for construction of a two-story 5,830 sq. ft. addition and remodeling of 2,520 sq. ft. at Seaview Methodist Church, at West Graham and 47th Ave. S.W., Roy Jenkins, pastor, 6048 47th Ave. N.W., Seattle. Addition to have: 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 heat; folding Space doors. Bids will be called this fall, after financing has been completed.
Addition will include social hall, seven classrooms, kitchen and parlor, and remodeling will involve five classrooms.
PD 9-12

NORTH SEATTLE HIGH SCHOOL— Seattle, Wash.
(Estimated cost $3,766,400)
Preliminary plans are nearing completion by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, for the new 1,500-student 200,000 sq. ft. one-story North Seattle High School near Ashworth Ave. and N. 130th St. in Seattle, for Seattle School District No. 1, King County, 815 4th Ave. N., Seattle. Plans include reinforced concrete; precast and pre-stressed columns and beams in classroom portion, thin-shell construction in gymnasium and auditorium; aluminum window wall, some brick veneer exterior; exposed shale block partitions.
PD 9-12. Previous report 7-18

★FLOOR TILE— Seattle, Wash.
Award to low bidder Frederick & Nelson, contract department, 6th and Pine, Seattle, $.1475 (unit price) for furnishing approximately 40,000 sq. ft. of ⅛x9x9 Aristoflex floor tile for projects in Seattle. Six bids were received, ranging up to $.165 (unit price). PD 9-12. Previous report 8-30

▲JUNIOR HIGH, ELEMENTARY SCHOOL ADDITIONS— Seattle, Wash.
Bids received by Highline School District No. 401, Carl Laudenbach, business manager, 253 S. 152nd St., Seattle, for additions to Puget Sound Junior High School, 1st Ave. S. and S.W. 126th St., Seattle, and additions to Hazel Valley Elementary School, S.W. 132nd St. and 4th Ave. S., Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. BIDDERS—HAZEL VALLEY: E. L. Ollom Construction Co., 2315 W. Spokane St., $54,704; United Construction Co., 3627 Findlay St., $54,709; Northern State Construction Co., 2833 26th Ave. W., $55,660; Roxbury Construction Corp., 204 109th Ave. S.E., Bellevue, $56,385; Korsmo Brothers, 5944 Lake Grove Ave. S.W., Tacoma, $56,404; Norge Construction Co., 5008 Admiral Way, $57,000; Ballard Contractors, 4601 6th Ave. N.W., $59,514; Nelsen Building & Contracting Co., 1243 Rainier Ave., $79,121. PUGET SOUND: Korsmo Brothers, $76,178; Roxbury Construction Corp., $81,259; Norge Construction , $85,000; Ness Construction Co., 1125 W. 53rd, $93,300; Northern State Construction Co., $93,800. Of Seattle except as noted. Bids opened September 11.
PD 9-13. Previous report 9-7

POSTOFFICE— Seattle, Wash.
Bids will be opened for the second time on September 30 by General Services Administration, Federal Services Office Bldg., 909 1st Ave., Seattle, for the right to construct at a cost of about $900,000 a new main postoffice at 3rd Ave. and Union St., Seattle, in exchange for part of the property occupied by existing postoffice. The University of Washington and its Metropolitan tract lessee, University Properties, Inc., will bid on the project. Plans are by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. Plans call for a three-story postoffice with dimensions of 96'x156' on first floor and 60'x156' on each of the second and third floors; 32-car capacity parking space in basement. The $9,000,000 overall building program includes a 20-story building to replace the existing Douglas building, a six-level 500-car parking garage with overflow garage parking on roof of postoffice, and a three-story postoffice. Construction is tentatively scheduled for spring of 1958.
PD 9-13. Previous report 9-6

▲CASEWORK— Seattle, Wash.
Bids were received September 12 by University of Washington Board of Regents, Seattle, for furnishing and installing casework in Denny Hall, campus, Seattle. BIDDERS: Farwest Construction Co., 608 W. 44th, $87,688 (basic), no bid (alt. 1), no bid (alt. 2); Roy Hilliard, Securities Bldg., no bid, no bid, $49,990; Wick Construction Co., 720 N. 35th, $91,321, no bid, no bid; Ness Construction Co., 1125 W. 53rd, $89,765, no bid, no bid; Wick Construction Co., 720 N. 35th, $91,321, no bid, no bid. All of Seattle.
PD 9-31. Previous report 9-4

★HIGH SCHOOL ADDITIONS— Seattle, Wash.
Awards announced by Shoreline School District No. 412, E. 158th and 20th Ave. N.E., Seattle, for construction of a nine-classroom building and a multipurpose room addition to Shoreline Senior High School at E. 185th and 1st Ave. N.E., in Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARDS—GENERAL: Poston Construction Co., 519½ University Way, Seattle,

$143,000. MECHANICAL: Lucken Plumbing & Heating, 922 Leary Way, Seattle, $39,499. ELECTRICAL: Ewing Electric, 5525 Main St., Edmonds, $16,347.
SP 9-14. Previous report 8-24

▲**RESIDENCE— Seattle, Wash.**

Bids received and being held for further study by owner Donald E. Grovac, for construction of an 1,800 sq. ft. two-story residence at 52nd Ave. S. between Alaska and Angeline streets, Seattle. Plans by Maurice Sullam, architect, 915 E. Pine, Seattle.
PD 9-14. Previous report 8-27

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

Planholders announced for construction of a 22,500 sq. ft. addition and approximately 10,000 sq. ft. of remodeling to Harrison Elementary School, 413 22nd Ave. N., Seattle. Bids will be opened 11 a.m., September 27, in purchasing department, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle. Plans with Bindon & Wright, architects, Hoge Bldg., Seattle.

Planholders—GENERAL: Carl G. Anderson Construction Co., 12362 35th Ave. N.E.; O. E. Turnquist Construction Co., 1305 Republican; H. Halvorson, Inc., 20054 Pacific Highway S.; E. F. Shuck Construction, 535 Pontius; Puget Construction Co., Inc., 1811 Bush Place; Ness Construction Co., 1125 W. 53rd; B. F. Turnbull, Inc., 4351 Leary Way. MECHANICAL: University Plumbing & Heating, 3941 University Way; A. H. Merchant Plumbing & Heating Co., 1633 12th Ave.; Ashwell-Twist Co., 967 Thomas; Percy A. Thorn Mechanical Contractor, 24 Etruria; Navarre Plumbing & Heating Co., 3839 Stone Way; L. G. Massart Plumbing & Heating Co., 4501 9th Ave. N.W.; Bayles Brothers, Inc., 3907 12th N.E.; Hart Plumbing & Heating, Inc., 11553 27th Ave. N.E. ELECTRICAL: City Electric & Fixture Co., 433 8th Ave. N.; Holert Electric, 2300 W. Spokane; Northwest Electric Co., 420 Yale N.; Van S. McKenny Co., 104 Wall; Hooper Electric Co., Inc., 215 Marion St. All of Seattle.
PD 9-14. Previous report 9-6

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

Planholders announced for construction of a one-story 10,900 sq. ft. addition to Chinook Junior High School at S. 188th and 42nd Ave. S., Seattle. Bids will be opened 2 p.m., September 24, in office of district clerk, 253 S. 152nd St., Seattle, by Highline School District No. 401, Carl Laudenbach, assistant superintendent. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle.

Planholders—GENERAL: Sanford Wright, Box 809, Everett; B. F. Turnbull, 4351 Leary Way; Norge Construction Co., 5008 Admiral Way; Roxbury Construction Corp., 226 109th S.E., Bellevue. MECHANICAL: University Plumbing & Heating, 3941 University Way; Navarre Plumbing & Heating, 3839 Stone Way; L. G. Massart, 4501 9th Ave. N.W. ELECTRICAL: Connors Electric, 103 S. 28th, Tacoma; Holert Electric, 2300 W. Spokane; Fadden's Electric, 7902 9th Ave. S.W. Of Seattle except as noted.
PD 9-14. Previous report 9-6

APARTMENT— Seattle, Wash.

Construction will start soon by owner-contractor Hajo Corp., 13535 8th Ave. N.W., Seattle, on a 38-unit three-story and basement apartment building at Melrose Ave. and Thomas St., Seattle. Plans by Cuykendall., Iles & Blean, architect, Arcade Bldg., Seattle. Steel frame; flat built-up roof, batt insulation in roof; wood siding, exposed reinforced concrete exterior; aluminum sash; plaster partitions; hardwood, vinyl tile, ceramic tile flooring; wood cabinets; formica counter tops; electric baseboard heat. The balcony egress building will have basement parking, and a 14'x22' swimming pool included in the plans. PD 9-14

▲**BUILDING CONVERSION— Seattle, Wash.**

Bids received by University of Washington, Seattle, for alterations to a building on the corner of Campus Parkway and University Way, Seattle. Bids opened September 17. Plans by Carlson, Eley & Grevstad, architects, 432 Eastlake, Seattle.

LOW BID: Gill Construction Co., 5117 25th Ave. N.E., $13,596. OTHER BIDS: Noble White, 4142 W. Marginal Way, $14,261; W. G. Clark, 408 Aurora, $14,521; Northern State Construction, 2833 26th Ave. W., $14,770; E. F. Shuck, 535 Pontius Ave., $15,398; Strand, Inc., 1801 N. 34th, $16,561; Norge Construction, 5008 Admiral Way, $17,000; Glacier Construction Co., 5536 Coniston Road, $17,150. All of Seattle. PD 9-18. Preivous report 9-14

★**KITCHEN, CAFETERIA ALTERATIONS— Seattle, Wash.**

Award to Strand, Inc., 1801 N. 34th, Seattle, $25,381, by Seattle Pacific College, 3307 3rd Ave. W., Seattle, for alterations to kitchen and cafeteria in Watson Hall on the college site. Plans by W. G. Brust & Associates, Republic Bldg., Seattle.
SP 9-14. Previous report 9-6

★**DORMITORY, HOUSING UNITS— Seattle, Wash.**

Award to Strand, Inc., 1801 N. 34th, Seattle, $86,120, by Seattle Pacific College, 3307 3rd Ave. W., Seattle, for construction of four duplexes on the college site. Plans by W. G. Brust & Associates, architects, 906 Republic Bldg., Seattle. Contract for construction of women's dormitory will be made soon.
SP 9-14. Previous report 9-6

★**CHAPEL, PARISH EDUCATION UNIT— Seattle, Wash.**

Contract negotiated with Wallace B. Questad, Inc., 2858 30th Ave. W., Seattle, no figure available, for construction of a 6,488 sq. ft. chapel and parish education unit. Plans by Oliver Olson, architect, 2437 Market St., Seattle. PD 9-18. Previous report 4-19

FRATERNITY HOUSE— Seattle, Wash.
(Estimated cost $150,000)

Plans postponed until spring of 1958 for construction of a three-story fraternity house on 18th Ave. N.E. for Tau Kappa Epsilon Fraternity, 4547 19th Ave. N.E., Seattle. Plans by Charles A. Baylon, architect, 912 Elliott Ave. W., Seattle, include

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PD 9-18. Previous report 5-29

CHURCH SANCTUARY— Seattle, Wash.
(Estimated cost $100,000)

Preliminary drawings are underway by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, for construction of a 350-seating capacity sanctuary adjacent to existing Tibbetts Methodist Church, Francis Kinch, pastor, 3902 41st Ave. S.W., Seattle. Construction may be underway the latter part of 1958. Future plans include building of a third structure, connecting the present building and the sanctuary. PD 9-18

RESIDENCE— Seattle, Wash.

Contract may not be awarded until spring of 1958 by owner O. F. Weyerman for construction of a two-story, 3,964 sq. ft. residence near Salt Water State Park. Plans by Paul Hayden Kirk, A.I.A., & Associates, 615 Lakeview Blvd., Seattle.

SP 9-18. Previous report 8-13

APARTMENT— Seattle, Wash.

Construction will start about mid-November by owner-contractor Riley Pleas, partner in P & G Construction Co., 522 19th Ave. N., Seattle, on a 24-unit balcony egress apartment on 2nd Ave. N. and Boston St., Seattle. Working drawings have been completed by Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle. Plans involve two 3-story buildings with 12 units each, 2,600 sq. ft. on each floor. Steel frame; flat built-up roof; blanket insulation in roof; cedar siding, Welchboard exterior; aluminum sash; plaster partitions; hardwood, vinyl tile flooring; ceramic tile wall recesses; wood cabinets; formica counters; electric heat. A 15-car asphaltic concrete parking area is included in the plans.

PD 9-18

ELEMENTARY, JUNIOR HIGH SCHOOLS— Seattle, Wash.
(Estimated cost $526,437 elementary, $1,220,693 junior high)

State matching funds in amounts of $375,583 and $1,027,895 have been approved by State Board of Education for construction of new Brookside Elementary School and Central Junior High School, respectively, for Shoreline School District No. 412, E. 158th and 20th N.E., Seattle. SC 9-18

SCHOOL CONSTRUCTION— Seattle, Wash.

State matching funds have been approved by State Board of Education toward school construction for Highline School District No. 401, 225 S. 152nd St., Seattle. Funds were approved as follows: $176,134 towards new $203,527 North Sunnydale Elementary School; $283,075 towards new $316,091 special services school; $64,340 towards $71,489 addition to Burien Heights Elementary School; $269,691 towards new $306,149 N.E. McMicken Heights Elementary School. SC 9-18

■ JUNIOR HIGH SCHOOL, GYMNASIUM— Selah, Wash.

Planholders announced for construction of a one-story, three-unit, 18-classroom junior high school, administration building and a concrete block gymnasium at Selah. Bids will be opened 2 p.m., October 3, in the library of John Campbell School, by Margaret Hale, clerk, Selah School District No. 119, Selah. Plans with Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima.

Planholders—GENERAL: Hainsworth Construction Co., 3028 Western Ave., Seattle; Johnson-Busboom-Rauh, N. 601 Cedar, Spokane; Jensen-Rasmussen Co., Box 89, Sunnyside; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata; Vandivort Construction Co., Box 1647, Wenatchee; W. M. Yeaman, 601 S. 1st St., Yakima; Hans Skov, Liberty Bldg., Yakima; Harold Corpman, 1106 S. 14th Ave., Yakima; Hills Construction Co., 102 S. 5th Ave., Yakima. MECHANICAL: Central Plumbing & Heating Co., 510 S. 1st St., Yakima; Valley Plumbing & Heating, 609 W. Yakima Ave., Yakima; Grant County Plumbing & Heating Co., Box 1567, Moses Lake. ELECTRICAL: Electric Smith, Inc., E. 123 Sprague, Spokane; Creamer Electric, 119 S. 1st St., Yakima.

IG 9-13. Previous report 9-7

JUNIOR HIGH SCHOOL—Silverdale, Wash.
(Estimated cost $669,957)

State matching funds in the amount of $299,354 have been approved by State Board of Education, along with $107,880 in federal funds, toward construction of a new junior high school at Silverdale, for Central Kitsap School District No. 401, Box 2, Silverdale.

SC 9-18

JUNIOR HIGH SCHOOL—Spanaway, Wash.
(Estimated cost $891,632)

State matching funds in the amount of $407,679 have been approved by the State Board of Education toward construction of a new junior high school at Spanaway, for Bethel School District No. 403, Route 1, Box 289-AB, Spanaway. SC 9-18

METHODIST HOME— Spokane, Wash.
(Estimated cost $3,500,000)

Construction will start this fall on a five-story 250-person capacity Methodist Home (to be known as Rockwood Manor) on a 32-acre South Hill tract in Spokane, for Spokane Homes, Inc., O. W. Young, secretary of the board of trustees, Spokane. The site is west of Ray and northwest of the Lincoln Heights reservoir. SC 9-10

▲HIGH SCHOOL ADDITIONS— Spokane, Wash.

Bids received by Spokane School District No. 81, W. 503 West Ave., Spokane, for construction of additions to the John Rogers High School in Spokane. Plans by McClure & Adkison, architects, Sherwood Bldg., Spokane. Bids opened September 11. LOW BIDS —GENERAL: Purvis Construction Co., Box 64, Yardley, $357,854; Hefte Construction Co., E. 11067 Trent, $365,728; Sceva Construction Co., N. 2928 Madelia, $377,454. MECHANICAL: Russ Owens Plumbing & Heating, N. 1020 Washington St., $82,886; Womack Plumbing & Heating, S. 328 Jefferson, $91,098; Senna Service, N. 732 Napa. ELECTRICAL: Kehne Electric, N. 416 Helena, $45,987; Maxwell's, Inc., E. 14 Mission, $46,735; Brown-Johnston, N. 118 Lincoln, $48,000. Of Spokane. LL 9-13. Previous report 8-29

▲MARY QUEEN PARISH—Spokane, Wash.

Bids received by Catholic Diocese of Spokane, Most Rev. Bernard J. Topel, bishop, S. 517 Howard, Spokane, for construction of a one-story 6,100 sq. ft. multipurpose building addition for Mary Queen Parish, Carlisle at Ferrall, Spokane. Plans by John P. O'Neil, architect, Columbia Bldg., Spokane. Bids opened September 12. LOW BIDS—GENERAL: Sceva Constuction Co., N. 2928 Madelia, $41,963; Smith & Roberts, Box 6086, $42,311; Loveland Construction Co., 728 N. Cook, $43,678. MECHANICAL: McClintock & Turk, N. 3812 Division, $30,750; Standard Plumbing & Heating, E. 1801 Sprague, $31,379; Warren, Little & Lund, W. 120 2nd, $31,626. ELECTRICAL: Pacific Electric, S. 507 Sherman, $3,873; Electric Smith, E. 123 Sprague, $4,769; Frost Electric, E. 21 Ermina, $4,779. All of Spokane.

LL 9-14. Previous report 9-10

COLLEGE— Spokane, Wash.

A new college, supported by the state, will have to be developed in Spokane within the next few years, according to Dr. Milton W. Durham, president, Washington State College, Pullman. The grounds of the old Fort George Wright, now being closed by the Air Force, were suggested as a site for the building. SC 9-14

★LABORATORY ALTERATIONS— Spokane, Wash.

Award to William L. Hilton, E. 41 Gray, Spokane, $45,278, by Hollister-Stier Laboratories, Inc., S. 107 Division, Spokane, for alterations to the laboratory. Plans by G. A. Pehrson, architect, Old National Bank Bldg., Spokane.

LL 9-14. Previous report 9-10

■ EMMANUEL LUTHERAN CHURCH— Spokane, Wash.

Planholders announced on construction of a one-story, 11,000 sq. ft., masonry first unit on the proposed new church to be located at Spruce and Coeur d'Alene streets, Spokane. Bids to be opened 3 p.m., September 26, by Emmanuel Lutheran Church, Rev. John M. Groschupf, pastor, S. 411 Pine, Spokane. Plans with Eddy, Carlson & James, architects, 1205 N. Washington, Spokane.

Planholders: Hazen & Clark, W. 108 Boone; Johnson - Busboom - Rauh, N. 601 Cedar; Smith & Roberts, Box 6086; Troy Hood, Box 111, Opportunity; Henry George & Sons, Hutton Bldg.; H. Halvorson, Inc., Box 6, Yardley; Hefte Construction Co., 11607 E. Trent. Of Spokane.

LL 9-18. Previous report 9-13

DENTAL CLINIC, SOLVENT ROOM— Steilacoom, Wash.

The one bid received was rejected by Department of Institutions, Olympia, on construction of a dental clinic in the Women's Receiving Ward at Western State Hospital, Fort Steilacoom. Award was made earlier in the month on the solvent room, to Mel Pedersen, Box 2366, Tacoma, $1,858.

DE 9-18. Previous report 9-16

▲BUS GARAGE— Sumner, Wash.

Bids are being held under study by Sumner School District No. 320, 1625 Main St., Sumner, for construction of a 40'x105' school bus garage at the high school site on Washington St. in Sumner. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. Bids opened August 6. LOW BIDS: Robert E. Wootan, 9922 View St., Tacoma, $8,912; Korsmo Bros., 5944 Lake Grove Ave., Tacoma, $9,663; C. E. Skinner, Orting, $9,790. SP 9-10. Previous report 8-1

HOSPITAL EXPANSION— Tacoma, Wash.
(Estimated cost $150,000)

Architects Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma, have been retained by Mary Bridge Children's Hospital, 311 S. L St., Tacoma, to prepare plans for completion of the third floor of the hospital. When the present three-story 40-bed hospital was built, the top floor was roughed in for future growth and a bed capacity of 60 persons. Work on the architectural drawings will start after recommendations are made by the hospital's medical staff. Physicians' ideas on layout are being sought by a five-man committee headed by Dr. R. A. Norton. Findings by Dr. Norton's unit will be submitted September 27 for medical staff approval. The hospital board will act on the suggestions before architects can start on plans. SC 9-7

MACHINERY FIRM BUILDING— Tacoma, Wash.
(Estimated cost $250,000)

Final plans have been completed by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, and groundbreaking is expected in early fall for a new 30,000 sq. ft. precast concrete and glass building, to be located on a level 10-acre tract adjacent to the Puyallup River Bridge on Highway 99 in Tacoma, for Murphy-Campbell Co., Frank Murphy, president, 2719 S. Tacoma Way, Tacoma. The site, accessible by highway and rail transportation, was purchased from the Port of Tacoma Industrial Development District. Focal point of the structure will be an all-glass 90'x40' display room. SC 9-10

SWIMMING POOL— Tacoma, Wash.
(Estimated cost $250,000)

Plans will be complete in October by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma, for the proposed 165'x75' South End Swimming Pool, to include separate 40'x45' diving pool, 60'x30' wading pool and bathhouse facilties, to be located at E. 56th and D, adjacent to the Stewart Heights Playfield, in Tacoma. Bids will be called soon by Metropolitan Park District, Tom Lantz, recreation supervisor, City Hall Annex, Tacoma.

The main pool will be 3' deep at each end and slope to a maximum depth of 5' at the center. Diving pool will be separated from the main pool by a concrete barrier, with opening so that the water can be filtered and chlorinated together with that of the main pool, and will have one- and three-meter boards and a 10-meter board. The pool will be 12' to 15' deep. The wading pool will have a maximum depth of 12". Adjacent facilities, besides separate dressing rooms for men and boys, women and girls,

and the filtration and chlorination equipment, will include a covered spectator area and a snack bar. Parking area for 243 cars is also planned.

Building to house chlorination and filtration equipment, dressing rooms and appurtenant facilities will be one-story; no basement; L-shaped; 250'x90', 9,250 sq. ft. area; concrete footings and foundation; solid masonry, block walls; concrete slab floors; timber beams; flat glued laminated roof; masonry partitions; exposed masonry walls and partitions; ceramic tile flooring; exposed decking on ceilings; corrugated plastic panels; power vents.

SP 9-12. Previous report 5-7

★STORE ADDITION— Tacoma, Wash.

Award to G. Kirkebo & Son, 1410 Mountain View, Tacoma, no amount noted, by S. H. Kress & Co. of New York City, for alterations and additions to the existing store at 734 Broadway in Tacoma. Plans by Lyle Swedberg, architect, 911½ Pacific Ave., Tacoma. Bids opened August 26 in New York City.

SP 9-13. Previous report 8-24

NURSING HOME— Tacoma, Wash.

Special permit has been approved by City Planning Commission, Tacoma, for construction of a nursing home at 5210 S. State St. in Tacoma. The permit was requested by Dr. Charles Arnold of Tacoma and is subject to further approval by the city fire, building and health departments. SC 9-14

PARKING GARAGES— Tacoma, Wash.

(Estimated cost $2,000 per parking space)

Plans have been proposed by a Chamber of Commerce committee in Tacoma for construction of a multi-level, ramp- type, self-parking, 418-car capacity garage fronting on Pacific Ave., between the Rust Bldg. and Washington Hardware, extending back over Commerce St. between 9th and 11th streets with access tunnels to Broadway. Car access would be from Commerce, with pedestrian access provided from both Pacific Ave. and Broadway. Plans by Gaston C. Lance, architect, 319 S. 7th, Tacoma. A similar facility was proposed by the committee between 11th and 13th streets from Pacific Ave. to Broadway; a third garage would also be necessary before long and the possibilty was mentioned of a multi-level garage over the existing Rhodes parking lot on Market St. The committee proposed that the garages be municipally operated and financed by revenue bonds. SC 9-14

● McKINLEY SCHOOL ADDITIONS— Tacoma, Wash.

Bids to be opened 8 p. m., October 22, by Tacoma School District No. 10, Toney Shelton, business manager, fifth floor, School Administration Bldg., Tacoma, for construction of an addition on stilts and a new wing to McKinley Elementary School, McKinley Ave. and E. 37th St., Tacoma. Separate bids on general, mechanical, electrical. Plans with John Hewett Sutton, architect, 916 Rust Bldg., Tacoma. $20 deposit for each set of plans. Certified check, cashier's check or bid bond 5%.

Project involves 136'x70' addition on stilts providing five classrooms, two kindergarten rooms; 125'x60' ground level addition to house multipurpose unit, kitchen, administrative wing. Classroom wing will be constructed on concrete beams and columns to provide play area below; above the structure will be frame with glued laminated beams, wood and brick exterior finish; metal sash, built-up roofing; drywall interior finish; acoustical ceilings; asphalt tile floor covering; extension of existing hot water heating system with unit ventilators. The multipurpose wing will have similar construction features. DC 9-18

ELEMENTARY, JUNIOR HIGH SCHOOLS— Tacoma, Wash.

(Estimated cost $190,124 elementary, $1,139,086 junior high)

State matching funds in the amounts of $51,010 and $614,960 have been approved by State Board of Education toward construction of an addition to Southgate Elementary School and a new junior high school, respectively, for Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma. SC 9-18

RESTAURANT— Union Gap, Wash.

(Estimated cost $13,000)

Construction underway by Jake Leingang, 3804 Summitview Ave., Yakima, for a 1,600 sq. ft. rustic type restaurant at Union Gap, for owner Gene Luisi. Frame floors; frame exterior wall paneling; built-up roofing; asphalt tile flooring; sheet rock walls; exposed beam ceilings; hot air oil fired heating system. IG 9-10

★SCHOOL STARTER UINTS— Vancouver, Wash.

Awards recommended by Evergreen School District No. 114, F. W. Martin, chairman, Superintendent's Office, N.E. 18th St., Route 1, Box 2725, Vancouver, for construction of the Ellsworth Elementary School, about five mi. east of Vancouver on Ellsworth Road, and the Sifton Elementary School, about 7 mi. northeast of Vancouver on N.E. 137th. Plans by Donald Eby, architect, 215 Adams Bldg., Vancouver. Signing of contracts is pending official state approval. AWARDS—GENERAL: Raley Construction Co., 4709 Evergreen Highway, Vancouver, $286,727. MECHANICAL: Wahl Plumbing & Heating Co., 615 W. 11th St., Vancouver, $36,700. ELECTRICAL: Viner Electric Co., 420 N.E. Russell St., Portland, $81,000. WB 9-17. Previous report 9-11

SUPERMARKET— Walla Walla, Wash.

(Estimated cost $250,000)

Construction to start soon by Kelly Construction Co., owner-contractor, Wilbur and University, Walla Walla, on a new 80'x150' supermarket to be located on E. Isaacs between Cascade Drive and Wilbur St. in the Eastgate district, Walla Walla. The building will be leased to Fleenors' Fine Foods, 1930 E. Isaacs, Walla Walla. Parking area for 200 cars will be provided. SC 9-7

SCHOOL ADDITIONS—Walla Walla, Wash.

Plans are being considered by Walla Walla School District No. 110, Arthur Jones, superintendent, Park St., Walla Walla, for an addition at Pioneer Junior High School and a multipurpose room at Jefferson Elementary School in Walla Walla. Preliminary planning for the two units were discussed by the school board with architects Brandt Gessel, 214 E. Birch, and Thomas O. Williams, 20 S.E. 3rd College Place, both Walla Walla. SC 9-18

ELEMENTARY SCHOOL ADDITION— Winslow, Wash.

Bids may be called late in November on a one-story, eight-classroom addition to the Captain Charles Wilkes elementary school on Bainbridge Island. Working drawings are nearly completed by Mallis & DeHart, architects, 613 Lyons Bldg., Seattle. Plans call for two buildings connected by covered walkways to existing school, with total floor area of approximately 17,000 sq. ft. Concrete slab-on-grade; steel columns; glued laminated beams, wood joists; tar and gravel surface on built-up roof; brick exterior; metal sash; concrete block, drywall partitions; asphalt tile, ceramic tile flooring; glass block skylight; extension of existing hot water heat system. Buildings will contain 8 classrooms, toilet facilities, storage room, multi-purpose room, administrative room, health unit.

PD 9-14. Previous report 7-9

SAFEWAY STORE— Yakima, Wash.

(Estimated cost $80,000)

Plans have been completed by Harold Hall & Associates, architects, 402 Commerce Bldg., Yakima, for construction of a one-story, 80'x135', concrete block and brick Safeway store at 4008-4010 Summitview Ave. in Yakima, for Safeway Stores, Inc., Holtzinger Bldg., Yakima. A building permit has been issued for the work but no contractor's name has been released as yet. Completion expected late this fall.

No basement included; reinforced concrete footings and foundations; concrete slab floors; glued laminated beams, steel posts; built-up roofing, masonry partitions, frame in offices; concrete stairways; steel windows; painted concrete block exterior, gypsum lath, plaster and paint interior wall finish; plaster and gypsum lath partitions; asphalt tile flooring; exposed beam ceilings; automatic Kawneer and sliding doors; sprinkling systems; 1½" rigid insulation in roof; gas heating system. IG 9-5

RESIDENCE— Yakima, Wash.

Working drawings underway by Ed Marble, architect, Miller Bldg., Yakima, for a residence to be located approximately five mi. west of Yakima, just south of Tieton Drive, for owner James Bronson, 702 S. 20th Ave., Yakima. Structure to include 2,000 sq. ft. basement and 4,300 sq. ft. main floor; concrete basement with plaster walls and concrete floors; cedar siding; painted brick roof, handsplit cedar shakes; frame floors; interior walls to be wood paneling and plaster; ceilings to be exposed decking and plaster; some terrazzo flooring, and either vinyl or asphalt tile; hot air oil-fired heating system; fireplace; three garages attached to building; swimming pool to be constructed in early spring. IG 9-7

★RESIDENCE— Yakima, Wash.

Contract negotiated with Hugh Templeton, 9th Ave. and Fruitvale Blvd., Yakima, approximately $100,000, by owner James Bronson, 702 S. 20th Ave., Yakima, for construction of a residence to be located approximately five mi. west of Yakima, just south of Tieton Drive. Plans by Ed Marble, architect, Miller Bldg., Yakima.

IG 9-13. Previous report 9-7

RESIDENCE— Yakima, Wash.

(Estimated cost $22,000)

Construction underway by Tilman Nelson, owner-contractor, 415 N. 52nd Ave., Yakima, on a brick and stone residence at 4002 Richey Road in Yakima. Building will have cedar shake roof; poured concrete foundation; partial basement; lath and plaster interior; mahogany woodwork; oak floors with carpeting, some tile and some linoleum flooring; oil-fired heating system. IG 9-14

RESIDENCE— Yakima, Wash.

(Estimated cost $20,000)

Working drawings underway by Champ Sanford, designer, 602 S. 5th Ave., Yakima, for a brick veneer residence with stone fireplace on Slavin Road in Yakima, for owner R. Willet, Slavin Road, Yakima. Poured concrete foundation; full concrete basement; plaster and paint interior walls; plaster and paint ceilings, frame floors with carpeting, vinyl tile and linoleum flooring; oil-fired warm air heating system. IG 9-14

■ RESIDENCE— Yakima, Wash.

Planholders announced for construction of a residence on Richey Road, Uplands Addition, Yakima, on which bids will be opened 2 p. m., September 27, in the office of Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima. Owner is Tom Bostic Northwest Co., 302 Minnesota Ave., Yakima.

Planholders: Beaver & Drumwright, 1206 Cherry Ave., Yakima; Harold Corpman, 1106 S. 14th Ave., Yakima; W. B. Edmiston & Sons, 2512 S. 1st St., Yakima.

IG 9-14. Previous report 9-7

IDAHO

FIRST METHODIST CHURCH—Boise, Idaho

Preliminary plans underway by architects Harold Wagoner, Philadelphia, Pa., and Hummel, Hummel & Jones, 1324 Idaho St., Boise, for a new church to be located in the block bordered by 11th and 12th streets; Hays and Franklin, in Boise, for First Methodist Church, Marcell Learned, chairman of the executive committee, 1012 State St., Boise. Project will include 60' high sanctuary with 144' high steeple; small chapel; connecting cloister and religious educational units. Building will be Kansas limestone.

GH 9-18

ARMORY— Bonners Ferry, Idaho

Bids will be called early in 1958 by Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise,

for construction of a National Guard armory in Bonners Ferry. Plans by Hugh Richardson, architect, Weisgerber Bldg., Lewiston. GH 9-14

● **CLUBHOUSE— Burley, Idaho**

Bids will be opened 8 p. m., October 7, by City Council, City Hall, 14th and Overland, Burley, for construction of a 25'x75' masonry clubhouse at the Burley Golf Course. Plans with Harold Thompson, architect, 6001 Fairview, Boise. $25 deposit. Certified check, cashier's check or bid bond 5%. GH 9-14

OFFICE BUILDING FIRE— Coeur d'Alene, Idaho

(Estimated loss $250,000)

The four-story Powell Bldg., tallest structure in Coeur d'Alene, was badly damaged by fire on September 9. The roof and fourth floor were destroyed; third floor extensively burned and lower floors heavily damaged by smoke and water. SC 9-14

HOUSING— Cottonwood, Idaho

(Estimated cost $12,000 each unit)

Plans and specifications have been completed by U. S. Air Force for a 27-unit housing development at Cottonwood Butte radar station, about four mi. west of Cottonwood. Bids will be called as soon as a contract is negotiated with the village of Cottonwood to provide water and sewage facilities. Housing will include 20 three-bedroom houses for airmen's families, six three-bedroom houses for officers' families and a four-bedroom officer's billet. SC 9-18

ELKS LODGE FIRE— Idaho Falls, Idaho

(Estimated loss $100,000)

Fire of undetermined origin damaged the three-story brick Idaho Falls Elks Lodge on September 7. The fire burned out the lounge on the main floor, continued through the assembly hall on the top floor and burned a hole 20' in diameter in the roof. SC 9-14

ARMORY— Grangeville, Idaho

Working drawings completed by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston, for construction of a National Guard armory in Grangeville, for Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise. Bids will be called early in 1958. GH 9-14

● **HOUSING UNIT REMOVAL— Lewiston, Idaho**

Bids will be opened 7:30 p.m., September 30, by A. M. Quane, city comptroller, City Hall, Lewiston, for complete removal of three temporary housing units located at 11th Ave. and 5th St. in Lewiston. Specifications with above office. Units may be inspected by contacting Frank McNeil, caretaker, at the housing area.

Buildings to be reduced to not greater than flat panels for removal. All debris is to be cleaned up including all foundations, concrete slabs, sidewalks and fuel boxes. Sewer connections to be plugged with concrete. Ground to be leveled when all removal has been completed. SC 9-14

HEALTH BUILDING— Lewiston, Idaho

Special election will be held in November by Nez Perce County Commissioners, Courthouse, Lewiston, on a propsed 2-mill levy to finance construction of a 150'x30' health building to be located west of the courthouse, facing F St., in Lewiston, for North Central District Health Department, Lewiston. Remainder of the cost would be paid by Hill-Burton funds. Plans by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston. Bids will be called after January 1, 1958, for the building which will have exterior of transite panels and brick. GH 9-18

HOSPITAL ADDITION— Lewiston, Idaho

(Estimated cost $100,000)

Preliminary plans underway by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston, for an addition to the southwest wing of St. Joseph's Hospital, for St. Joseph's Hospital Community Foundation, John Ernsdorff, business manager, 4th Ave. and 6th, Lewiston. GH 9-18

GENETICS CENTER— Moscow, Idaho

Bids rejected by U. S. Forest Service, 1036 Federal Bldg., Missoula, Mont., for construction at the North Idaho Forest Genetic Center involving an office-laboratory building, greenhouse-potting house and garage in Moscow. The job will be readvertised later. The low bidder at the August 26 bid opening was Walter M. Varnum, Box 983, Coeur d'Alene, Idaho, $65,057. LL 9-17. Previous report 9-5

● **COURTHOUSE— Moscow, Idaho**

(Estimated cost $400,000)

Bids will be opened 4 p.m., October 1, by Latah County Commissioners, Courthouse, Moscow, for construction of a new two-story with partial basement, 27,000 sq. ft. courthouse at Moscow. Plans with Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise, or O'Connor Bldg., Suite 12, Moscow. $50 deposit. GH 9-14. Previous report 8-16

STUDENT UNION BUILDING— Moscow, Idaho

Preliminary plans underway by Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise, for an extension of the existing student union building to a block-long area to the north of the present structure and an ice skating rink at the University of Idaho in Moscow. Bids will be called by Department of Public Works, State House, Boise. GH 9-18. Previous report 4-17

● **LIGHTING, MISCELLANEOUS ALTERATIONS— Moscow, Idaho**

Bids to be opened 3 p. m., P.S.T., September 30, by General Services Administration, Room 126, Federal Office Bldg., Seattle, for miscellaneous alterations and lighting at the U.S. Post Office and Court House in Moscow, Idaho; SEA-883. Plans with Design and Construction Division, 909 1st Ave., Seattle. DM 9-18

● **SCHOOL ADDITION— Mullan, Idaho**

Bids will be opened 7 p. m., October 8, by Shoshone County School District No. 392, at the Mullan High School, Mullan, for construction of a block masonry unit shop, music and classroom addition to the school. Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane, after September 16. $25 deposit.

Concrete slab on grade; glued laminated wood frame roof; wood deck; wood and steel combination sash; asphalt tile flooring; metal and wood doors; exposed block walls with some cement-asbestos paneling; metal toilet partitions; acoustical tile ceilings; plastic skylights; fluorescent lighting; rigid insulation in roof; unit ventilators. Contract to include new heating plant to serve the present building and the new building, utilizing coal-fired boiler. LL 9-14

MONTANA

LUTHERAN CHURCH— Billings, Mont.

Newly organized Lutheran Church of Billings Heights, Rev. Emil Dockter, pastor, Billings, has voted to purchase a site in the Billings Heights area northeast of Billings for construction of a new church. Fund raising campaign is underway. EE 9-14

● **SANITATION OFFICE— Billings, Mont.**

Bids will be received until 5 p. m., October 1, in the office of the city clerk, City Hall, Billings, for construction of a sanitation department building on the sanitary land fill south of the city. Plans with city engineer, City Hall. Certified check or bid bond 5%. EE 9-17

▲ **BUILDING REMODELING—Billings, Mont.**

Bids received by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., for remodeling the Post Office Building at Billings. Bids opened September 16. LOW BID: Pederson Construction Co., 2925 Ronan Drive, Billings, $110,135. OTHER BIDS: R. H. Haley, Box 173, Moscow; Lowe Construction Co., Box 883, Billings, $113,400; J. C. Boespflug, Box 1237, Billings, $123,080; H. L. Grohne, 2594 N. Water St., Decatur, Ill., $153,956. PD 9-18. Previous report 9-7

★ **STEEL BUILDING— Billings, Mont.**

Award announced by City Council, City Hall, Billings, for furnishing a 4,800' steel building to be erected at Public Works Site, 302 Edwards St., Billings. Bids opened September 10. AWARD: R. L. Stratford & Co., Laurel Road, Billings, $11,690. 2ND LOW: Armco Drainage & Metal Products Co., Industrial Site, Billings, $12,498; Western Ranch Supply, 1406 1st N., Billings, $14,343. EE 9-18. Previous report 8-27

★ **BANK— Browning, Mont.**

Award announced by First National Bank of Browning, Faithe Bercovich, president, Browning, for construction of a one-story, 50'x60', brick and stone bank building in Browning. Plans by McIver, Hess & Haugsjaa, architects, Strain Bldg., Great Falls. AWARD: Hi Aubrey, Inc., Box 257, Shelby, $50,416. OTHER BIDS: Frates Construction Co., 424 Rimrock Road, Billings, $53,691; Zion Construction Co., 3016 5th Ave. N., Great Falls, $56,000; Ehlert Construction Co., Cut Bank, $63,737. SC 9-14

★ **ELEMENTARY SCHOOL— Circle, Mont.**

Award announced by McCone County School District No. 1, Circle, for mechanical work on the new elementary school at Circle. Plans by Drake & Gustafson, architects, Empire Bldg., Billings. AWARD: Cummings Plumbing and Heating, Glendive, $17,890 (base bid) plus $1,326 (alternate). Other base bids were: Frisby Plumbing and Heating, 212 Grand Ave., Billings, $18,500; Morrow Plumbing and Heating, Baker, $22,000; Peterson Sheet Metal, Glendive, $19,450. Bids were opened September 6. EE 9-17. Previous report 8-27

BOWLING ALLEY— Deer Lodge, Mont.

(Estimated cost $35,000)

Excavation underway for a pumice block bowling alley which will face 4th St. between Montana and Milwaukee avenues in Deer Lodge, for Kenneth Colbo of Deer Lodge. The building will house a soft drink, candy and cigarette counter, modern rest rooms, storage space and a large locker area in addition to two rows of spectator seats. The building will be completed between October 20 and November 1. SC 9-13

HOSPITAL— Fort Benton, Mont.

(Estimated cost $427,000)

Fund drive will start soon to raise $210,000 to aid in financing construction of the proposed one-story, masonry, 27-bed St. Clare Hospital at Fort Benton. Plans by Bordeleau-Pannell & Amundson, architects, 309 1st Ave. N., Great Falls. The balance of the money required for the project will be provided by a federal government grant. The proposed building will have a brick exterior and concrete floor glass, and a maximum capacity of 32 beds. SC 9-14

GARAGE FIRE— Glasgow, Mont.

(Estimated loss $80,000)

Reconstruction is being considered by building owner Alfred Kolstad, Glasgow, for the Jerome Buick Garage building in northwest Glasgow which was damaged by fire. The owner estimated his loss at $45,000 including damage to the structure and some of the garage equipment. Roy Jerome, operator of the motor agency and a service station business, estimated his loss at $35,000. The front frame section, housing offices, the service station, restaurant and upstairs office space and an apartment, was almost completely burned. The metal rear shop section was partially burned. SC 9-18

LODGE IMPROVEMENTS— Glacier National Park, Mont.

Remodeling and redecorating work will be resumed soon by Knutson Corp., operator of Glacier Park Co., Minneapolis, Minn., at East Glacier Park lodge in Glacier National Park. Work will include installation of private bathrooms for all rooms and suites in the lodge; conversion of large storage room into modern convention hall; furnishing acoustical tile ceiling and serving kitchen for a convention hall built last spring;

construction of two additional tennis courts on back lawn; painting of main lodge and other buildings; installation of new lighting.

●BOILER, BURNER REPAIRS— **Helena, Mont.**

Bids will be opened 3 p. m., September 26, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for boiler and gas burner repairs at the Federal Office Bldg. in Helena; Proj. No. SEA-880. Specifications with above office. SP 9-14

★RESIDENCE— **Heron, Mont.**

Award to Linebarger Construction Co., Inc., 5407 N.W. Boulevard, Spokane, (estimated cost $10,000) by Washington Water Power Co., Spokane, for construction of a five-room teacher residence for the western Montana school district at Heron. The project is part of the program by WWP to assist in providing housing and schools necessitated by population increase as a result of the Noxon Rapids dam construction.

●HEATING, VENTILATING— **Lame Deer, Mont.**

Bids will be opened 2 p. m., September 24, by Bureau of Indian Affairs, Area Director's Office, 804 N. 29th St., Billings, for heating and ventilating headquarters building, Northern Cheyenne Agency, Lame Deer. Specifications with above office. EE 9-14

CREDIT UNION OFFICE BUILDING— **Whitefish, Mont.**

(Estimated cost $20,000 to $25,000)

Bids will be called about the last part of September by Whitefish Credit Union Association, 416 2nd St., Whitefish, for construction of a one-story, 25'x110' office building located at lot 13, block 36 in Whitefish. Plans by Richard Taylor, 830 Woodland Ave., Kalispell. $25 deposit. Certified check, cashier's check or bid bond 5%.

Cinder block construction; concrete ground area; hot water heating; tile flooring; tar roofing.

LB 9-18. Previous report 8-24

ALASKA

MULTIPURPOSE SCIENCE BUILDING— **College, Alaska**

(Estimated cost $2,250,000)

Bids may be called soon for construction of a four story, 80,000 sq. ft. multipurpose science building at the University of Alaska in College. Bid opening date will be determined by Alaska Public Works, Juneau. Working drawings are underway 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 foundation; 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; wood cabinets; folding doors, plass panels and blackboards; baseboard central heating; ventilation system; anemostat air conditioning. LB 9-18. Previous report 8-31

RAILROAD DEPOT— **Fairbanks, Alaska**

(Estimated cost $150,000 to $200,000)

Bids will be called in 1958 by Alaska Railroad, J. H. Lloyd, general manager, Anchorage, for construction of a frame and masonry depot at Garden Island terminal yards in Fairbanks. Architect has not been selected. Building to have steam heating system, concrete and wood floors and built-up roofing. SP 9-14. Previous report 8-22

▲OIL STORAGE TANK— **Juneau, Alaska**

Bids received by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., for removal of existing tank and furnishing and installing a 7'x21' oil storage tank with 6,000 gal. capacity, at the Federal and Territorial Bldg., Juneau. Bids opened September 16. LOW BID: Lent's, Inc., 279 4th St., Bremerton, $6,850. ONLY OTHER BIDS: C & R Builders, Inc., 1619 8th Ave. N., Seattle, $8,025; Zimmer Heating Sales & Engineering, 416 E. 72nd, Seattle, $8,842. PD 9-18

★BANK— **Sitka, Alaska**

Award to Western Construction Co. and Hieberg Contracting, Sitka, $124,000, by First Bank of Sitka, for construction of a one- and one-and-a-half story 38'x90' bank building at Sitka. Plans by Foss, Olsen & Sands, architects, Box 2331, Juneau.

JU 9-13. Previous report 8-17

ENGINEERING NEWS

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

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

OREGON

●DRILLING WELL— **Aloha, Ore.**

Bids will be opened 8 p. m., September 24, by Aloha-Huber Water District, Earl J. Thompson, chairman, Water District Office, 17880 S.W. Blanton St., Aloha, for drilling, casing and testing a 16" well. Specifications with Elden W. Carter, consulting engineer, 1207 Portland Trust Bldg., Portland. $25 deposit. Bid bond or certified check $500. WB 9-18

●LANDSCAPING— **Astoria, Ore.**

Bids will be opened 11 a. m., September 25, by School District No. 1-C, Clatsop County, T. A. Wells, superintendent-clerk, City Hall, Astoria, for landscaping at Astoria High School, including establishing lawns, installation of sprinkler system, shrub and tree planting, concrete terracing, grading and draining. Plans with David E. Thompson, lanscape architect, 319 Davis Bldg., Portland. $10 deposit. Certified check or bid bond 10%. WB 9-14

▲EARTHWORK, CANAL LINING, STRUCTURES— **Camp White, Ore.**

Bids were opened September 12 by Bureau of Reclamation, J. A. Callan, construction engineer, Box 386, Camp White for earthwork, concrete canal lining and structures at Howard Prairie Delivery Canal near Ashland in Jackson County, Station 539+00 to Station 986+75 and Little Beaver Creek Canal, Talent Division, Rogue River Basin Project, Ore.; Spec. No. DC-4947. LOW BIDS: Cherf Bros. and Sandkay Contractors, Inc., Box 938, Ephrata, $1,285,507; Peter Kiewit Sons' Co., 405 E. Main St., Medford, $1,367, 630; Hall-Atwater, Inc., and White Bros. Construction Co., Terminal Box 3361, Seattle, $1,513,273 (joint venture).

SP 9-13. Previous report 8-3

●BRIDGE— **Clatskanie, Ore.**

Bids to be received until 8 p. m., September 23, by R. J. Pascoe, city recorder, City Hall, Clatskanie, for construction and installation of a bridge across the Clatskanie River. Plans with above office. $5 deposit. The city has on hand steel trusses that will be used in the bridge. The contractor will be required to supply other materials and to construct the bridge. DC 9-18

●CRUSHED STONE SURFACING— **Cougar Reservoir, Ore.**

Bids to be opened 2 p. m., P.S.T., September 24 by Corps of Engineers, 628 Pittock Block, Portland, for construction of relocated U. S. Forest Service West Side Road, Annie Creek to Upper End at Cougar Reservoir on the South Fork McKenzie River about 10 mi. south of town of Blue River, Lane County, Ore.; CIVENG-35-026-58-24. Plans with above office. Bid bond 20%. Completion time November 1, 1958. Description—base and crushed stone leveling courses on roadways and stockpiling leveling course material; clearing and grubbing; excavation and embankment; backfill; placing corrugated structural plate pipe.

DM 9-17

▲ROAD RELOCATION— **Cougar Reservoir, Ore.**

Bids received by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Dam to Annie Creek, Cougar Reservoir, South Fork McKenzie River, about 8 mi. south of Blue River, Lane County, Ore.; CIVENG-35-026-58-20. Bids opened September 12. LOW BIDS: J. W. Briggs & Associates, 1825 California, Redding, Calif., $1,527,020; Peter Kiewit Sons' Co., Box 1777, Vancouver, $1,651,440; K. L. Goulter & Sons, 4303 E. 35th Ave., Seattle, $1,684,640.

WB 9-13. Previous report 9-5

WATER STORAGE DAM— **Dallas, Ore.**

(Estimated cost $250,000 to $275,000)

Preliminary work has been started in preparation for construction of a water storage dam on Rickreall Creek, 9 mi. northwest of Dallas, according to Lynn McCulley, city superintendent, City Hall, Dallas. Soundings and core drill preparations are underway by crews associated with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. If conditions at the present site prove unfavorable, an alternate site two miles downstream will be investigated.

Plans call for a dam approximately 60' high which will impound a minimum of 410,000,000 gal. water. An alternate plan being studied would involve the Soil Conservation Service and the Small Water Shed Act. Under this plan, a larger dam would be built, with Dallas paying a cost equivalent to that of the smaller dam. The city will be required to hold a bond election to raise funds for the project.

SC 9-18. Previous report 6-27

★WATER SYSTEM (PHASE 2)— **Empire, Ore.**

Award announced by City Council, City Hall, Empire for second phase of a water system expansion project to serve the new naval installation at Coos Head Park, involving construction of water main from east city limits of Empire through the city and south along Cape Arago State Highway to point east of Charleston small boat basin, and from there crossing Coos Bay and extending westerly to Coos Head. Plans by R. H. Erichsen, consulting engineer, 409 N. Fourth Court, Coos Bay. AWARD: Everett Den Herder, 3995 State St., Salem, $225,637. OTHER BIDS: Henry Den Herder, Lebanon, $237,414; Hanning & Gonzales, Portland, $279,484; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland, $283,335. Bids opened September 10.

DC 9-17. Previous report 8-29

●BANK PROTECTION REPAIR— **Grants Pass, Ore.**

Bids will be opened 2 p. m., October 1, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for repair and construction of bank protection works along the left bank of the Rogue River at Pierce

Riffle Location, about 4 mi. east of Grants Pass, Josephine County, Ore.; CIVENG-35-026-58-40. Specifications with above office. Bid bond 20%.

Quantities: 5,000 c.y. excavation; 9,900 c.y. embankment from borrow; 8,000 c.y. derrick-stone revetment. SP 9-14

★FISH SCREEN STRUCTURES— Grants Pass, Ore.

Award to Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $126,452, by Bureau of Reclamation, Box 386, Camp White, Ore., for construction of fish screen structure for Savage Rapids Dam, Grants Pass Project, Ore.; DC-4910. DM 9-18. Previous report 8-28

▲ROAD RELOCATION— Hill Creek Reservoir, Ore.

Bids received September 17 by Corps of Engineers, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Dam to Packard Creek section at Hills Creek Reservoir, Middle Fork Willamette River about 4 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-58-18. LOW BIDS: K. L. Goulter & Sons, 3419 16th W., Seattle, $1,509,290; McCammon - Wunderlich Co., Palo Alto, Calif., $1,666,615; Darhenwald Construction Co. and Harms Bros., Sacramento, Calif., $1,675,829. WB 9-18. Preivous report 9-5

★TRUNK, INTERCEPTOR SEWERS— Klamath Falls, Ore.

Subcontract award to Peyton & Co., 835 Market St., Klamath Falls, by general contractor Bessonette Construction Co., Medford, for furnishing 20,000' of concrete pipe for the new interceptor sewer system being installed at Klamath Falls. The company is making 10,000' of 12" to 18" concrete pipe in 3' lengths and subcontracting for 10,000' of 21" to 36" concrete pipe in 10' lengths from Idaho Concrete Pipe Co., Nampa, Idaho. ZZ 9-14. Previous report 7-19

★WELL DRILLING— Oak Creek Guard Station, Ore.

Award to Gilbert Pruitt, Route 4, Corvallis, $375, by Department of Finance & Administration, 1225 Ferry St., Salem, for well drilling at the Oak Creek guard station, McDonald Forest, Benton County, Ore. Bids opened August 27. CP 9-14. Previous report 8-21

★BANK PROTECTION— Oakridge, Ore.

Award to Harbert Bros., Route 1, Box 7, Estacada, $36,280, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for bank protection on Mile 5 on Oakridge-Lookout Point 115 kv. line; Inv. 8525. WB 9-18. Previous report 9-10

★TIMBER BRIDGES— Portland, Ore.

Award to General Construction Co., 4850 N.W. Front Ave., Portland, $16,969, for removing and replacing two timber stringer bridges at N.E. 105th Ave. and N.E. 138th Ave., both about one-fourth mile north of Sandy Blvd. WB 9-13. Previous report 8-22

●GRADING— Portland, Ore.

Bids to be opened 10 a. m., October 1, by Bureau of Public Roads, B. M. French, regional engineer, 753 Morgan Bldg., Portland, for grading 0.815 mi., Oregon Forest Highway Project 3-A2, Oregon Coast Highway, Siuslaw National Forest, Tillamook County, Ore. Plans with above office.

Quantities: 23 acre grubbing; 886,000 c.y. excavation; 1,000,000 sta. yd. overhaul; 4,300' culvert pipe. DM 9-17

★CRUSHED ROCK STOCKPILING— Portland, Ore.

Award by Bureau of Public Roads, 753 Morgan Bldg., Portland, for stockpiling 10,000 c.y. crushed rock, Oregon Timber Access Road Proj. BLM 680 - B, Spur Roads to Smith River Road, Bureau of Land Management-Coos Bay District, Douglas County, Ore. AWARD: F. H. McEwen, 1673 Villard St., Eugene, $25,000. OTHER BIDS: L. R. Kauffman, Box 15, Waldport, $29,000; Beckley & Thomas, 1547 S.E. Jackson St., Roseburg, $34,500; Harold G. Lavelle, 10430 S.E. Bush St., Portland, $37,400. Bids opened September 10. WB 9-13. Previous report 9-6

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards were made on 11 projects; bids were referred to engineer for award on three jobs at the September 12 bid opening of the Oregon State Highway Commission in Portland.

SANDY-ALDER CREEK GRADING, PAVING—Grading, paving 8.43 mi. and furnishing material in stockpile on Mt. Hood Highway east from Sandy, Clackamas County; FAP No. F-156(6). The bid of Rogers Construction Co. and Rogers Construction Co., Inc., 11760 N.E. Glisan, Portland, $1,704,932, was referred to engineer for award.

FORT STEVENS CAMP EXPANSION—Construct camping areas and roadways at Fort Stevens Park Overnight Camp west of Astoria, Clatsop County; a State Project. AWARD: Grimstad & Vanderveldt, 1497 9th, Astoria, $25,084.

TUMALO CAMP EXPANSION—Construct camping areas and roadways at Tumalo Park Overnight Camp, Deschutes County; a State Project. AWARD: McNutt & Sons, Inc., 510 E. Browning, Salem, $10,487.

BURNS GRADING, SURFACING—Grading 5.92 mi., stone surfacing 6.88 mi. on Burns Mountain Road, Burns Air Force Station Access Road, Harney County; FAP No. R-AD-6(2). AWARD: F. L. Somers, Box 668, Medford, $177,565.

CASCADE LOCKS SAND SHED—Construct 60'x63' frame sand storage shed on State Highway Commission property on Columbia River Highway in Cascade Locks, Hood River County. AWARD: Gilbert-Roberts Contractors, Route 4, Box 419, Hood River, $7,472.

ECKMAN SLOUGH GRADING, OILING—Grading, oiling 0.16 mi. and construct reinforced concrete structure on Alsea Highway about 2.3 mi. east of Waldport, Lincoln County; FAP No. S-229(5). The bid of Pacific Concrete Co., 10401 N.E. Marx, and Parker & Fuhrman Co., 11524 S.E. Foster, Portland, $68,421, was referred to engineer for award.

MILL CREEK BRIDGES—Construct 148' reinforced concrete deck girder bridge over Mill Creek and widen existing 100' Mill Creek Overflow Bridge by 59' on Salem By-pass section of Pacific Highway, Marion County; FAIP No. I-324(16). AWARD: Hamilton & Thoms, Box 726, Eugene, $72,186.

OVERCROSSING WIDENING, SILVERTON VICINITY —Widen Silverton Road, Sunnyview Ave., Garden Road and State St. overcrossings, all of which are 144' reinforced concrete, to provide for future southbound lanes, on Salem By-pass section of Pacific Highway, Marion County; FAIP No. I-324(16). AWARD: Hamilton & Thoms, Eugene, $209,777.

OVERCROSSING WIDENING, TURNER SECTION—Widen existing reinforced concrete overcrossings on Turner Road, Market Road 56 and Boone Road, to provide for future southbound lanes, Marion County on By-pass section of Pacific Highway, FAIP No. I-324(16). AWARD: H. G. Carl Construction Co., 1210 S. 22nd, Salem, $115,895.

S.W. SPRING GARDEN ROAD UNDERCROSSING—Construct 188' reinforced concrete box girder undercrossing on Harbor Drive-Washington County line section of Pacific Highway in Portland, Multnomah County; FAIP No. I-303(16). AWARD: Johnston & Bryant, Newberg, $126,778.

ROADSIDE IMPROVEMENT—About 18,500 c.y. excavation, irrigation system, 580 ton asphaltic concrete; 810 rods fence, plantings on Union Ave.-42nd Ave. section of Columbia River Highway (Banfield Expressway), Multnomah County; FAIP No. I-323(24). AWARD: E. P. Baltz & Son, Portland, $99,703.

MEACHAM-GLOVER PAVING—Asphaltic concrete paving 9.88 mi. on Old Oregon Trail Highway about 2 mi. southeast of Meacham, Umatilla and Union counties; FAIP No. I-62-(13). AWARD: Rogers Construction Co., Portland, $1,274,927.

FLORA SPUR SECTION GRADING, STONE BASE—Grading and stone base 2.68 mi. and furnishing crushed materials in stockpile on Flora Spur Road about 34 mi. north of Enterprise, Wallowa County; FAP No. S-361(1). The bid of J. F. Konen, Lewiston, Idaho, $71,372, was referred to engineer for award.

ILLUMINATION—Furnish, install highway illumination at traffic interchange on Three Mile Lane Highway at Dayton, Yamhill County; FAP No. S-96(4). AWARD: Steeck Electric Co., 633 S.E. Stephens, Roseburg, $10,432. DM 9-14. Previous report 9-13

★SPRINKLER SYSTEM— Portland, Ore.

Award to C. M. Corkum Co., 2630 S.W. 2nd Ave., Portland, $49,480, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for installation of a sprinkler system under Pier 5, Terminal No. 4. This was added to the contract awarded to the firm last month for rehabilitation of the substructure and deck of the slip berth at the pier. (See Berth Rehabilitation, 8-16.) WB 9-18

●DUMP TRUCKS— Portland, Ore.

Bid opening postponed from September 12 to 10:30 a. m., October 22, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing eight heavy duty dump trucks for road department. Specifications with purchasing agent. Certified check or bid bond 10%. (Later date will allow bids on 1958 models.) WB 9-18. Previous report 9-5

●BROOM WIRE— Portland, Ore.

Bids will be opened 2 p. m., September 24, by city purchasing agent, 208 City Hall, Portland, for 20 tons flat spring steel broom wire for Bureau of Maintenance. Certified check or bid bond 10%. WB 9-18

★STATE HIGHWAY PROJECTS— Salem, Ore.

Awards made on eight projects, bids rejected on one job, and bids referred to engineer for award on two projects by the Oregon State Highway Commission, on construction on which bids were opened in Salem, August 30.

STOCKPILING — BAKER - UNIT HIGHWAY: Unity Junction-Mill Creek Rock Production Project about 26 mi. southwest of Baker, Baker County, involving 10,000 c.y. crushed materials in stockpile; a State Project. AWARD: E. H. Itschner Co., Box 316, Molalla, $29,500.

BEAR CREEK, ROCK CREEK BRIDGES—Construction of 145' main roadbed and 130' bridge over Rock Creek on County Road FAS 813, and 275' bridge over Rock Creek and 75' bridge over Bear Creek on County Road FAS 912, south of Canby, Clackamas County; FAP Nos. S-352(1) and S-351(1). AWARD: Hamilton & Thoms, Box 726, Eugene, $95,336.

DEEP CREEK, CLEAR CREEK BRIDGES—Construction of 350' main roadbed and 156' bridge over Deep Creek near Boring and 270' main roadbed and 130' bridge over Clear Creek near Fishers Mill, County Road FAS 808 and 809, Clackamas County; FAP Nos. S-351(1) and S-269(2). AWARD: Rogers Construction Co., Inc., 11760 N.E. Glisan, Portland, $63,297.

SCAPPOOSE CREEK BRIDGES—Construction of 66' reinforced concrete and timber bridge over the North Fork of Scappoose Creek and an 84' reinforced concrete and timber bridge over the South Fork of Scappoose Creek, Scappoose-Pittsburg Road, Columbia County; FAP No. S-77(7). AWARD: Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $32,681.

GRADING, PLANTING—PACIFIC HIGHWAY: Fairgrounds Interchange (Roseburg) Roadside Improvement Project. Douglas County; FAIP No. 1-78(36). Bids rejected as too high.

GRADING, OILING — HOOD RIVER COUNTY: Grading and oiling 4.51 mi. on four county roads near Hood River and Parkdale; FAP Nos. S-357(1), S-355(1) and S-356(1). AWARD: Rex C. Ayers and Silver Falls Trucking Co., 7305 N.E. 29th, Portland, $93,636.

STOCKPILING—MT. HOOD, HOOD RIVER HIGHWAYS: Parkdale Rock Production Project, south of Hood River, requiring 11,500 c.y. crushed materials in stockpile, Hood River County. AWARD: Vernie Jarl, 438 S. Roberts, Gresham, $46,440.

GRADING, CULVERT, CONCRETE BRIDGE — NORTHEAST OF CRESWELL: Grading 2.01 mi., oiling 2.31 mi., placing of materials in stockpile, construction of reinforced concrete box culvert and 68' concrete bridge on Cloverdale - Coast Fork Bridge Section of Springfield - Creswell Secondary

Highway, about 1.5 mi. northeasterly of Creswell, Lane County; FAP No. S-358(2). The bid of F. H. McEwen, 1673 Villard, Eugene, $154,957, was referred to engineer for award.

REINFORCED CONCRETE BRIDGES—YAQUINA BAY: Construction of three reinforced concrete bridges over arms of Yaquina Bay on North Bank County Road near Toledo, Lincoln County; FAP No. S-359(1). AWARD: R & M Construction Co., 136 Main, Central Point, $33,609.

SLOPE PAVING—PORTLAND: Construction of 1,125 sq. yd. slope paving on south earth slopes of the 21st, 28th, 33rd and 39th Ave. undercrossings on the T. H. Banfield section of Columbia River Highway, Multnomah County; FAIP No. 1-323(24). AWARD: Pacific Concrete Co., Portland, $8,925.

GRADING, PAVING—PORTLAND: Involves 0.15 mi. grading and 0.48 mi. paving, Hancock St.-Multnomah St. and Stephens St. (Portland), Pacific Highway East (northbound) on Grand and Union avenues in Portland; FAP No. U-130(8). The bid of Cascade Construction Co., Foot of S.W. Abernathy, Portland, $24,259, was referred to engineer for award.

RUFUS MAINTENANCE BUILDING: Construction of 32'x83' masonry block building on State Highway Commission Property at Rufus, Sherman County; a State Project. AWARD: Decatur & Maerz, 970 S. Commercial, Salem, $16,584.

GRADING, TOPPING—UMATILLA COUNTY: Involves 9.99 mi. grading and topping, Ukiah-Forest Boundary section of Ukiah-Hilgard Secondary Highway, west end, about 50 mi. south (along US395) from Pendleton; FAP No. S-57(5). AWARD: K. C. Dack Construction Co., Box 35, Milton-Freewater, $119,200.

REINFORCED CONCRETE UNDERCROSSINGS—OLD OREGON TRAIL: Construction of 121' reinforced concrete undercrossing at Glover and a 250' reinforced concrete and structural steel undercrossing at Kamela on Meacham-Glover section of the Old Oregon Trail, Umatilla and Union counties; FAIP No. 1-62(11). AWARD: R. H. Jones, Hillsboro, $146,431. DM 9-14. Previous report 8-31

★TERMINAL ADDITION—Tillamook, Ore.

Award to Olson Electric Co., P. O. Box 830, Vancouver, $8,600, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Tillamook substation 115-kv Beaver Line terminal addition, at the junction of the Wilson River Highway (Oregon State Highway No. 6) and Evergreen Drive, which is about one mi. east of U.S. Highway 101 in Tillamook, Tillamook County, Ore.; Inv. No. 8486.
WB 9-14. Previous report 8-29

WASHINGTON

PUD BUDGET— Aberdeen, Wash.

A preliminary budget of $3,015,000 for 1958, 5% in excess of this year's estimated revenue, is being studied by Grays Harbor PUD Commissioners, 217 H St., Aberdeen. The budget provides for a continuing expansion of the PUD operation to meet anticipated power requirements. Public hearing on the budget will be held October 7. Included in the budget is $1,080,000 for purchase and production of power, and $280,000 for transmission and distribution expense. SC 9-17

▲UNDERWATER PIPELINE— Anacortes, Wash.

American Pile Driving Co., Inc., Pier 2, Everett, $64,500, submitted the only bid received by City Council, City Hall, Anacortes, on September 10 for construction of 600' of submarine pipe line crossing, a part of the city water system. Plans by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.
PD 9-13. Previous report 9-4

SEWERS, SEWAGE TREATMENT PLANT— Arlington, Wash.

Preliminary plans for installation of a comprehensive storm and sanitary sewer system for City of Arlington, have been presented by consulting engineers, Gray and Osborne, 228 S. 2nd St., Yakima. Costs of the projects are as follows: sanitary sewers system, $261,000; sewage treatment plant, $67,900; storm sewers, $61,700; engineering, land acquisition and incidentals, $47,000. Further plans and specifications will follow.
HH 9-18

★STORM SEWER DRAIN—Bellevue, Wash.

Award to Thorburn & Logozo, 4608 36th S.W., $29,554 (alt. A mortar joints), by City Council, City Hall, Bellevue, for furnishing and installing storm sewer drain in LID 56-D-04, Bellevue. Specifications by Irving Rodley, city engineer, 995 Main St., Bellevue.
PD 9-12. Previous report 8-15

★STREET IMPROVEMENT— Centralia, Wash.

Award to Pacific Sand & Gravel Co., Box 628, Centralia, $87,668, by City Council., City Hall, Centralia, for widening and resurfacing on W. 1st St. in Centralia.
SC 9-17. Previous report 9-11

★TURF SPRINKLERS— Chehalis, Wash.

Award to Brodin's Landscape Service, Chehalis, $5,811, by City Council, City Hall, Chehalis, for construction of a sprinkler system to irrigate turf areas in the baseball-football field at Borst Park, Centralia. Bids opened August 27.
SP 9-10. Previous report 8-17

★SURGE TANK PAINTING— Chelan Falls, Wash.

Award to Valley Paint Co., 207 Yakima, Wenatchee, $2,467, by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for exterior painting of surge tank at the Lake Chelan Power Plant, Chelan Falls.
DM 9-17. Previous report 9-10

●TRANSMISSION LINE— Chief Joseph Powerhouse, Wash.

Bids will be opened 2 p. m., September 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Chief Joseph Powerhouse-Switchyard 230-kv line No. 1, Douglas County, Wash.; Inv. No. 8534. Specifications with above office. $15 deposit. Bid guaranty 25%.

Quantities: 12 grillage, grouted and concrete footings; 50 c.y. common excavation; 50 c.y. rock excavation; 20 c.y. concrete; 200 lb. reinforcing steel; 500 lb. structural steel; 10 c.y. adjustment for rock excavation.
SP 9-17

●■ACCESS ROAD REPAIR— Colville, Wash.

Bids will be opened 2:30 p. m., October 4, by U. S. Air Force, Procurement Office, Geiger Field, for repair of access road at the 760 ACWROM in the vicinity of Colville. Specifications with above office.

Planholders: Charles N. Boyd, Kettle Falls; United Paving Co., Inc., Route 4, Box 150, Spokane; L. W. Vail Co., Inc., Box 847, Pasco; F. R. Hewett Co., Box 36, Parkwater Station, Spokane; D. A. Sullivan, Box 37, Parkwater Station, Spokane; Lewis Hopkins Co., Box 930, Pasco; M. F. Castle Co., N. 10503 Division, Spokane; K & P Excavating Contractors, Inc., 8017 E. Cataldo, Spokane; S & F Construction Co., Inc., Route 2, Spokane; Inland Asphalt Co., 10th and Havana, Spokane.
LL 9-17

★EARTHWORK, LINING, STRUCTURES— Ephrata, Wash.

Award to Duncan Construction Co., Box 582, Moses Lake, $139,858, by Bureau of Reclamation, Box 368, Ephrata, for earthwork, concrete lining and structures, Block 401 laterals, about 10 mi. north of Moses Lake, Grant County, Wash.; Spec. No. 117C-454.
SP 9-17. Previous report 8-28

TRESTLE— Everett, Wash.

Additional description follows on construction of an 8,000' pile trestle to carry 48" transmission line from Ebey Slough area to a point near the east bank of Snohomish River. Bids will be opened 10 a. m., October 14, by City Council, John L. Sugars, city clerk, City Hall, Everett. Plans with John W. Cunningham & Associates, 1112 Portland Trust Bldg., Portland, Ore. $15 deposit. Certified check 5%. Alternate bids will be received for cedar and creosoted piling.

The trestle will be located across the Snohomish River flats, adjacent to Highway 15, and 15' south of the existing Everett Pipe Line No. 2. It will consist of three pile bents with fender piles and capped to support 48" steel water supply pipe to be installed under another contract. QUANTITIES: 80,000' piling; 324 MBM timber.
HH 9-18. Previous report 9-17

★SEWER SYSTEM— Harrah, Wash.

Awards announced by Town Council, Town Hall, Harrah, for construction of sanitary sewer, sewage lift station and treatment plant. AWARDS—DeBlasio Bros., Route 4, Yakima, $37,014 (sewers); Joe E. Venne, Sunnyside, $22,237 (treatment plant, lift stations). Plans by Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima.
DC 9-18. Previous report 9-7

■ASPHALTIC CONCRETE PAVING, STORM SEWER— Kent, Wash.

Planholders announced for asphaltic concrete paving, sidewalks, curbs, and storm sewer in LID No. 237. Bids will be opened 3 p.m., September 26, by City Council, City Hall, Kent. Specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.

Planholders: Rainier Asphalt Paving Co., Maple Valley Highway, Renton; Superior Construction Co., 4610 37th S.W., Seattle; Eltrich Bros. Construction, 1002 S. Monroe, Tacoma; Russ Davis Concrete Construction, 3314 Mount Tacoma Drive, Tacoma; Lake City Gravel & Materials, Inc., 10728 Bothell Way, Seattle; Industrial Sewer Construction Co., 4314 Dayton, Seattle.
PD 9-18. Previous report 9-12

★STEEL PIPE, WATERMAINS— Kettle Falls, Wash.

Award to Armco Drainage and Metal Products Co., Inc., 1320 S.W. Broadway, Portland, Ore., $45,855, for furnishing 16,600' of 10" steel pipe, and to Charles M. Boyd and Charles Coogan, Kettle Falls, $14,452, for ditching and pipe laying. Bids were opened August 20 by Town Council, Town Hall, Kettle Falls.
DC 9-18. Previous report 8-17

SEWAGE DISPOSAL PLANT— Lake Stevens, Wash.

Lake Stevens sewage district has been voted in as a reality and also a special one-year tax levy to finance its organization. Main objective of the formation is to take steps toward construction of a sewage disposal plant to eliminate pollution of the lake.
HH 9-7

★CONTROL HOUSE— Moses Lake, Wash.

Award to Sceva Construction Co., Inc., No. 2928 Madelia St., Spokane, $60,985, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the control house at the potholes substation, 6 mi. west of Moses Lake, Grant County, Wash.; Inv. No. 8516.
WB 9-18. Previous report 9-12

DOLPHINS— Nahcotta, Wash.

Bid opening of September 13 cancelled and bids will be readvertised by 13th Coast Guard District, 618 2nd Ave., Seattle, for construction of two 5-pile dolphins with platforms at Nahcotta Mooring Basin, Nahcotta; Bid No. FS-1649.
SP 9-14. Previous report 8-28

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids will be opened 10 a. m., October 1, by Washington State Highway Commission, W. A. Bugge, director, Olympia, for eleven highway construction projects. Specifications with above office. $2 deposit. Certified check or cashier's check 5%.

GRADING, CONCRETE BRIDGE—BELLINGHAM: Clearing, draining, grading and constructing a reinforced concrete slab bridge on 2.114 mi. of PSH No. 1, Fielding St. to North St., Whatcom County; FAP No. 1-001-5(23).

Quantities: 55 acre clearing; 214,400 c.y.

common excavation; 220,400 c.y. solid rock excavation; 74,000 unit overhaul; 8,650 c.y. excavation of unsuitable material; 34,000 ton select roadway borrow; 2,600 c.y. sand borrow; 3,100 ton crushed stone surfacing; 38 ton asphalt cement; 100' integral cement concrete curb; 290 c.y. crushed cover stone, mineral aggregate; 4,150 ton asphaltic concrete; 9,950' cement concrete curb and gutter; 1,960' precast traffic curb; 110' galvanized conduit pipe; 2,459' corrugated metal pipe; 12,245' concrete pipe; 290' copper pipe; 1,922' cast iron pipe; 45,212' reinforced concrete cribbing headers and stretchers; 150' beam guard rail; 3,005 sq. yd. cement concrete sidewalk and driveway; lump sum bid for superstructure (about 530 c.y. concrete and 99,000 lb. steel reinforcing bars); 983 c.y. concrete; 122,840 lb. steel reinforcing bars.

DRAINING, GRADING — PONDERS TO N.P. RAILWAY: Clearing, draining, grading on 1.521 mi. PSH No. 1, Pierce County; FAP No. 1-001-3(19) Unit 2.

Quantities: 95 acre clearing; 417,000 c.y. excavation and borrow; 185,500 unit overhaul; 14,700 ton crushed stone surfacing, special gravel surfacing; 4,400 c.y. top soil; 41 ton asphalt cement; 380 c.y. crushed cover stone, mineral aggregate; 2,930 ton asphaltic concrete; 202' asphaltic concrete spillway and gutter; 194 c.y. concrete; 43,840 lb. steel reinforcing bars; 477 c.y. riprap.

DRAINING, SURFACING, PAVING — VANCOUVER LAKE VICINITY: Clearing, draining, grading, surfacing, constructing cement treated base and paving with type I-1 asphaltic concrete on 1.613 mi. SSH No. 1-T, Clark County; FAS No. S-0261(2).

Quantities: 176,300 c.y. common excavation; 9,230 unit overhaul; 2,800 c.y. excavation of unsuitable material; 29,600 ton ballast, crushed stone surfacing; 4,530 ton asphaltic concrete; 440 c.y. mineral aggregate; 44 ton asphalt cement; 7,500 ton CTB aggregate; 1,600 bbl. portland cement; 3,100' asphaltic shoulder curb; 2,010' concrete pipe; 566' corrugated metal pipe.

REINFORCED CONCRETE BRIDGES — C.M. ST. P. & P. R.R. AND SQUALICUM CREEK: Constructing two reinforced concrete flat slab bridges on 0.065 mi. PSH No. 1, Whatcom County; FAP No. 1-001-5(21).

Quantities: 3,100 c.y. concrete; 521,000 lb. steel reinforcing bars; 1,135' standard bridge railing.

SOUTH 96TH ST. OVERCROSSING AND SOUTH 84TH ST. UNDERCROSSING—Constructing a reinforced concrete box girder bridge and a reinforced concrete rigid frame bridge on 0.016 mi. of PSH No. 1, Pierce County; FAP No. 1-001-3(30).

Quantities: 66,500 c.y. common excavation and borrow; 2,260 ton select roadway borrow; 1,125 ton crushed stone surfacing; 760 ton asphaltic concrete; 66' concrete pipe; lump sum bid for superstructures (about 1,538 c.y. concrete and 387,000 lb. steel reinforcing bars); 1,300 c.y. concrete.

13TH ST. AND NATIONAL AVE. CONCRETE UNDERCROSSINGS — Constructing two precast, prestressed concrete undercrossings on PSH No. 1, Lewis County; FAP No. 1-001-2(54).

Quantities: 1,920 c.y. excavation and borrow; 860 ton crushed stone surfacing and ballast; 869 c.y. concrete; 2,100' prestressed concrete girders; 151,000 lb. steel reinforcing bars; 18,000 lb. structural steel. 10,100' concrete piling.

DRAINING, CRUSHED STONE SURFACING — ENTIAT RIVER ROAD: Clearing, draining, grading and surfacing with crushed stone on 2.719 mi. of a Chelan County Road; FAS No. S-0440(3).

Quantities: 94,200 c.y. common excavation; 19,070 c.y. solid rock excavation; 33,895 ton ballast and crushed stone surfacing; 22 c.y. concrete; 608' structural steel; 1,602' concrete pipe; 720' corrugated metal pipe; 2,460' steel and iron pipe.

DRAINING, GRADING—UPPER ELWHA RIVER ROAD: Clearing, draining and grading on 0.932 mi. Clallam County Road; FAS No. S-1427(1).

Quantities: 2,430 c.y. common excavation; 26,480 c.y. solid rock excavation; 1,000 c.y. loose riprap; 240' concrete pipe.

PAVING, CRIBBING—NORRIS ST. EXTENSION NEAR BURLINGTON: Draining, grading, surfacing, paving with bituminous mix and constructing reinforced concrete cribbing on 0.127 mi. PSH No. 1, Skagit County; a State Project.

Quantities: 2,350 c.y. common excavation and borrow; 660 c.y. select roadway borrow and crushed stone surfacing; 270 ton bituminous mix; 9 c.y. concrete; 156' concrete pipe; 116' corrugated metal pipe; 7,918' reinforced concrete cribbing headers and stretchers.

SURFACING, MOUNT SPOKANE STATE PARK ROAD: Surfacing with crushed stone and constructing a light bituminous surface treatment on 1.030 mi. of a State Park Road in Spokane County; a State Project.

Quantities: 2,770 c.y. selected roadway borrow; 1,075 c.y. crushed stone surfacing, crushed cover stone; 17 ton asphalt cement; 184' corrugated metal pipe.

DRAINING, GRADING, SURFACING — BLOCK 46, 47 FEEDER ROADS, ET AL: Clearing, draining, grading and surfacing with crushed stone on 27.838 mi. Adams County roads; a State Project.

Qauntities: 27.8 mi. grading; 59,410 ton crushed stone surfacing; 2,828' corrugated metal pipe. SP 9-13

★STATE HIGHWAY PROJECTS— **Olympia, Wash.**

Twelve awards and three projects held for consideration by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids opened September 10.

DRAINING, GRADING—DAVENPORT TO GRAVELLE ROAD: Clearing, draining and grading on 5.641 mi. PSH No. 2 in Lincoln County; FAP No. F-028-4(2). AWARD: N. A. Dagerstrom Co., E. 15th and 32nd, Spokane, $273,464.

STOCKPILING, SURFACING — MONSE TO OKANOGAN: Stockpiling and surfacing with light bituminous surface treatment on 17.788 mi. PSH No. 10 in Okanogan County; FAP No. F-029-2(4). AWARD: Materne Bros., Box 7052, Spokane, $187,221.

REINFORCED CONCRETE UNDERCROSSING—UNION AVENUE: Construction of a reinforced concrete box girder undercrossing on PSH No. 1 in Pierce County; FAP No. 1-001-3(28) Unit 1. Held for consideration. LOW BID: Woodworth & Co., 1200 E. D St., Tacoma, $183,915.

PRECAST CONCRETE UNDERCROSSING — STAMPEDE ROAD, CABIN CREEK ROAD: Constructing two precast prestressed concrete undercrossings on PSH No. 2 in Kittitos County; FAP No. 1-002-2(11). AWARD: Russell Gillett Co., Box G, Cle Elum, $183,815.

REINFORCED CONCRETE BRIDGE—KENTUCKY STREET, C.M.ST.P. & P.R.R. OVERCROSSING: Constructing a reinforced concrete slab bridge on 0.025 mi. PSH No. 1 in Whatcom County; FAP No. 1-001-5(19). AWARD: C. B. Croy, 2502 Lakeway Drive, Bellingham, $121,307.

PRECAST CONCRETE UNDERCROSSING —MORRISON ROAD, MAY VALLEY. Constructing two precast prestressed undercrossings on PSH No. 18 in Grant County; FAP No. 1-002-4(8). Held for consideration. LOW BID: Cherf Bros. & Sandkay Contractors, Inc., Ephrata, $166,566.

STEEL GIRDER BRIDGE, CONCRETE APPROACHES—NORTH FORK OF SKAGIT RIVER: Constructing a steel girder bridge and reinforced concrete approaches on 0.137 mi. of Skagit County Road; FAS No. S-0315 (1) Unit 1. AWARD: Louis Elterich, Box 868, Port Angeles, and DelGuzzi, Inc., 1020 E. Front St., Port Angeles, joint venture, $470,536.

DRAINING, GRADING, PAVING—148TH AVE. S.E., J. C. O'CONNOR ROAD, 140TH AVE. N.E.: Clearing, draining, grading and paving with type I-1 asphaltic concrete on 3.316 mi. King County Road; FAS No. S-0860 (1). AWARD: Acme Construction Co., Box 641, Redmond, $142,064.

GRADING, SURFACING—NORTH FORK BRIDGE APPROACHES: Grading and surfacing on 1.367 mi. Skagit County Road; FAS No. S-0315(1) Unit 2. AWARD: Herman Kathman, Box 555, Kenmore, $125,936.

FOSTER CREEK, PALISADES CONCRETE BRIDGES: Constructing four reinforced concrete slab bridges, grading and surfacing approaches on 0.296 mi. Douglas County Roads; FAS Nos. ER-23(6) and S-1022(2). AWARD: Russell Gillette, Cle Elum, $94,171.

GRADING, SURFACING—FERTILE VALLEY ROAD: Draining, grading, surfacing with selected roadway borrow on 1.115 mi. Pend Oreille County Road; FAS No. S-1339 (1). AWARD: N. A. Dagerstrom Co., Spokane, $31,305.

STORM SEWER — CITY OF COLVILLE: Construction of a storm sewer on 0.375 mi. PSH No. 3 in Stevens County; a State Project. AWARD: Morrison & Co., Box 597, Walla Walla, $34,841.

ASPHALTIC CONCRETE PAVING — TOWN OF MONROE: Paving with type I-1 asphaltic concrete on 0.563 mi. SSH No. 15-B in Snohomish County; a State Project. AWARD: Associated Sand & Gravel Co., 6300 Glenwood Ave., Everett, $44,705.

ASPHALTIC CONCRETE PAVING — KEECHELUS INN TO KACHESS RIVER: Paving with type I-1 asphaltic concrete on 2.581 mi. PSH No. 2 in Kittitas County; a State Project, involving about 2,515 ton asphaltic concrete pavement. AWARD: Washington Asphalt Co., Seattle, $23,925.

DISTRICT OFFICE BUILDING ADDITION —WENATCHEE: Constructing a reinforced concrete addition to the district headquarters office building in Chelan County; a State Project. Held for consideration. LOW BID: Lowry Construction Co., Box 1013, Wenatchee, $141,797.

DE 9-13. Previous report 9-11

●HOOD CANAL BRIDGE, FERRY CONSTRUCTION— Olympia, Wash.
(Estimated cost $18,063,000)

Bids will be opened 10 a. m., October 15, by Washington State Highway Commission, Transportation Bldg., Olympia, for 1—constructing unit 1, the floating section of the Hood Canal reinforced concrete floating bridge, 1.341 mi. in length in Kitsap and Jefferson counties (estimated $11,063,000), 2—widening four existing steel state ferries for the State Toll Bridge Authority (estimated $1,800,000), 3—constructing two Evergreen State type ferries 310' long for the Toll Bridge Authority (estimated $5,200,000). Specifications with above office. $50 deposit. Certified check, cashier's check or surety bond 5%.

The above work is the first phase of a $30,500,000 construction program to bridge Hood Canal and improve the state ferry system. The next phase will be on September 24 when the state calls for bids on improving ferry terminals at Fauntleroy, Vashon and Point Southworth-Harper at an estimated cost of $1,100,000.

HOOD CANAL BRIDGE UNIT 1—FLOATING STRUCTURE: Constructing a reinforced concrete floating bridge 1.341 mi. in length in Kitsap and Jefferson counties; a State Project.

Quantities: 74,597 c.y. concrete; 12,586,000 lb. steel reinforcing bars; 3,000,280' prestressing reinforcement; 14,060 reinforced concrete bridge railing; 2,943,120 lb. structural steel; 20,150 sq. ft. steel bridge decking; 739,200 lb. cast steel; 271,610 lb. high strength bolts and cast steel washers; 2,600' rubber seals; 5,844' steel pipe; 1,670' cement-asbestos pipe; 3,316' aluminum bridge railing 1,136' aluminum curb; 321 MBM treated timber and lumber; 227,600 lb. machinery; lump sum bid for mechanical equipment; lump sum bid for electrical equipment; lump sum bid for operator, machinery and generator houses; 29,000 sq. yd. waterproofing pontoons; 2,450' steel piling.

WIDENING FOUR STEEL ELECTRIC FERRIES: Widening the existing state ferries M/V Illahee, M/V Klickitat, M/V Nisqually and M/V Quinault for the Washington Toll Bridge Authority; a State Project.

Work consists principally in sponsoning the hull, widening the auto deck and replacing the existing wood auto deck with a steel deck. Alternate bids requested on replacing existing lifeboats and davits with larger boats and mechanical davits, on raising the entire superstructure for increased vertical clearance on the auto deck and on replacing existing canvas deck covering on exterior passenger decks.

TWO EVERGREEN STATE TYPE VESSELS: Constructing two ferries 310' long for the Washington Toll Bridge Authority; a State Project, consisting of building two ferry vessels of the Evergreen State Class utilizing owner furnished propulsion, generator sets, propulsion motor and engine room auxiliaries. SP 9-13

■STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced on ten highway

construction projects for which bids will be opened 10 a. m., September 24, by Washington State Highway Commission, Transportation Bldg., Olympia.

GRADING — LOON LAKE - GROUSE CREEK—Clearing, draining, grading 6.588 mi. PSH No. 3, Stevens County; FAP No. F-041-2(1).

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; N. A. Degerstrom, E. 15 32nd, Spokane; Fiorito Bros., 1100 Leary Way, Seattle; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Peter Kiewit Sons' Co., Box 1777, Vancouver; Lockyear & White, Inc., Box 687, Longview; Henry H. Miller, Contractors, Inc., 2191 N.E. Stephens, Roseburg, Ore.; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Charles A. Power, Box 1220, Spokane; Fred H. Slate Co. Oregon Ltd., 7805 S.W. 40th, Portland; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; James Crick & Sons, Box 4228, Station B, Spokane; Lige Dickson Co., 3315 S. Pine, Tacoma; Donald M. Drake Co., 1600 N.W. Savier, Portland; Erickson Paving Co., 14446 Sunset Highway, Bellevue; K. L. Goulter & Son, 3419 16th W., Seattle; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; Kiely Construction Co., Drawer 246, Butte, Mont.; Max J. Kuney Co., N. 120 Ralph, Spokane; C. E. Oneal, Inc., Box 270, Ellensburg; Natt McDougall Co., 824 Pittock Block, Portland; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Union Iron Works, Box 2135, Spokane; Sather & Sons, N. 1410 Howe, Yardley; Carl Hohner, 730 W. Chelan, Spokane; Clifton & Applegate, E. 5521 Railroad Ave., Yardley.

SSH No. 5-G UNDERCROSSING—Reinforced concrete slab bridge on PSH No. 1, Pierce County; FAP No. I-001-3(29) Unit 1.

Planholders: John E. Alexander, Box 7006, Seattle; Bergersen & Roberts, 2015 Center, Tacoma; Concrete Technology Corp., 1123 Port of Tacoma Road, Tacoma; Lockyear & White, Inc., Longview; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Poole, McGonigle & Dick, 6330 N.E. Halsey, Portland; Sawyer Construction Co., Route 3, Box 298, Tacoma; Woodworth & Co., Inc., 1200 E. D St., Tacoma; Troy T. Burnham Co., 18666 Beverly Road, Seattle; W. G. Clark Construction Co., 408 Aurora Ave., Seattle; N. Fiorito, Inc., 844 W. 48th, Seattle; L. B. Foster Co., Box 53B, Carnegie, Pa.; Harry H. Hawkins, 16274 39th N.E., Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; MacRae Bros., 5900 2nd S., Seattle; Ostruske-Murphy, Inc., 1515 Center, Tacoma; Quality Builders, 5220 S. Orchard, Tacoma; Tacoma Boatbuilding Co., Inc., 132 Sitcum Waterway, Tacoma; Excavators, Inc., 5756 29th N.W., Seattle.

CEMENT CONCRETE PAVING — MILITARY ROAD—Clearing, draining, grading cement concrete paving 3.282 mi. King County road; FAS Nos. S-0387(1), S-0381(4).

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Fiorito Bros., 1100 Leary Way, Seattle; Peter Kiewit Sons' Co., Box 177, Vancouver; Northwest Construction Co., 3950 6th N.W., Seattle; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Erickson Paving Co., 1446 Sunset Highway, Bellevue; N. Fiorito, Inc., 844 W. 48th, Seattle; Permanente Cement Co., 5975 E. Marginal Way, Seattle; Charles R. Watts Co., 4342 6th N.W., Seattle.

SURFACING—WALLA WALLA COUNTY—Surfacing with select roadway borrow and crushed stone on 3.547 mi., Oregon-Washington state line, Valley Chapel and Mojonnier Road sections; FAS No. S-0638(2).

Planholders: Carbon Bros., N. 3430 Cook, Spokane; Inland Excavating Co., Box 16, Walla Walla; Morrison & Co., Inc., Box 597, Walla Walla; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane; L. W. Vail Co., Inc., 1948 N. 4th, Pasco; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; D. A. Sullivan, Box 37, Parkwater Station, Spokane; Basin Paving Co., Box 1574, Moses Lake; Carl Hohner, 730 W. Chelan, Spokane; Earl LeRoy Kelly, 119 Leonard, Walla Walla; Materne Bros. Co., Box 7052, Spokane; Sather & Sons, N. 1410 Howe, Yardley.

PAVING—TOWN OF SEDRO WOOLLEY—Grading, asphaltic concrete paving 0.396 mi. SSH No. 1-A, Skagit County; a State Project.

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Wilder Construction Co., Inc., 1840 State, Bellingham; Fowler Asphalt Paving Co., 711 2nd, Mount Vernon; Skagit Valley Paving Co., Box 268, Mount Vernon.

PAVING — RENTON — Draining, grading, asphaltic concrete paving 0.104 mi. PSH No. 5, C.M. St. P. and P. R.R. undercrossing vicinity, King County; a State Project.

Planholders: Concrete Technology Corp., 1123 Port of Tacoma Road, Tacoma; Rainier Asphalt Paving Co., Box 44, Renton; MacRae Bros., 5900 2nd S., Seattle.

DUNGENESS RIVER REVETMENT—Construct bank project on PSH No. 9, Jefferson County; a State Project.

Planholders J. M. Bruch Co., Route 3, Box 504, Port Angeles; Bruck Bros., Route 1, Box 66, Port Angeles; Critchfield Logging Co., Inc., Route 1, Box 412, Port Angeles; Lake Construction Co., 1801 35th, Bellingham; Morrison-Cecotti, Box 388, Mount Vernon; C. W. Thomas & Son, Box 402, Winlock; P. J. Anderson & Sons, 13501 Aurora, Seattle; Excavators, Inc., 5756 29th N.E., Seattle; Kent & Tucker, Inc., 1431 134th N.E., Bellevue; Consolidated Construction Co., Route 12, Route 285A, Olympia; C. J. Painter, R.R. 1, Moses Lake; Owens Bros., Railroad and Oak, Port Angeles.

STOCKPILING — EASTON VICINITY — Stockpiling crushed stone surfacing, maintenance rock, sand and mineral aggregates involving about 10,000 c.y. stripping surfacing pit, 124,600 ton crushed materials on PSH No. 2, Kittitas County; a State Project.

Planholders: Carbon Bros., N. 3430 Cook, Spokane; J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; Curtis Construction Co., Box 106, Spokane; J. F. Forbes, Box 174, Olympia; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Newport Construction Co., 7031 N.E. Halsey, Portland; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; R. Wamberg, 7404 S. Tacoma Way, Tacoma; Acme Construction Co., Box 651, Redmond; J. Arlie Bryant, Inc., and Clarence Braden, 3716 Skyview Drive, Spokane; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Lige Dickson Co., 3315 S. Pine, Tacoma; N. Fiorito, Inc., 844 W. 48th, Seattle; Max J. Kuney Co., N. 120 Ralph, Spokane; Pieler Construction Co., 201 E. 8th, Port Angeles; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; D. A. Sullivan, Box 37, Parkwater Station, Spokane; R. H. Sussex, 2850 State Highway 2A, Bellevue; Frank G. Baulne, Inc., Box 84, Yardley; Ellensburg Cement Products, Inc., W. 7th, Ellensburg; Maurice Gredvig, Box 301, Yakima; Materne Bros., Box 7052, Spokane; Sather & Sons, N. 1410 Howe, Yardley; Russell-Gillett Co., Box G, Cle Elum; C. J. Painter, R.R. 1, Moses Lake.

RECONSTRUCT COWLITZ RIVER BRIDGE—Reconstruct timber bridge deck, 0.427 mi., Bridge No. 12-LB/3, PSH No. 12, Cowlitz County; a State Project.

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; Hanly Salvage Co., 3912 Pacific Way, Longview; The Hart Construction Co., 3536 E. 11th, Tacoma; General Construction Co., 3840 Iowa, Seattle; Lake Construction Co., 1801 35th, Bellingham; Palmberg Construction Co., Box 991, Astoria, Ore.; Archie Radakovich, Box 308, Kelso; Wayne Construction Co., 3810 Stone Way, Seattle; Owens Bros., Railroad and Oak, Port Angeles.

BUILDING — Construct administration building and toll canopy on Maple Street Bridge, Spokane County; a State Project.

Planholders: John, Busboom, Rauh, 601 N. Cedar, Spokane; Max J. Kuney Co., N. 120 Ralph, Spokane; Kehne Electric Co., Inc., N. 146 Helena, Spokane.

DM 9-17. Previous report 9-6

ROAD IMPROVEMENT— Pasco, Wash.
(Estimated cost $200,000)

Bids will be called soon by Franklin County Commissioners, Pasco, for improvement of the Sagehill Road which connects State Highway 11-A with a road that runs to the Othello radar station. Specifications by County Engineer Harold Blanton, above address. The road, approximately 11 mi. long, will be the main arterial for Blocks 20 and 21 in the northwest part of the county.

★WATERMAINS— Pullman, Wash.

Award to W. A. McConnachie, 2 Roza Vista, Yakima, $14,258, by City Council, City Hall, Pullman, for furnishing and installing 5,494' of cast iron water pipe on various city streets. SP 9-12. Previous report 8-23

■ SANITARY, STORM SEWERS, TREATMENT FACILITY— Redmond, Wash.

Planholders announced for construction of a stabilization pond (Sched. A-1), a sewage pump station (Sched. B-1), sanitary sewers (Sched. C) and storm sewers (Sched. D) at Redmond. Bids will be opened 8 p. m., September 25, by Florine Shults, town clerk, Town Hall, Redmond. Plans with Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.

Planholders: Lario Libri, 5960 Empire Way; F. M. Taylor, 2108 N. 194th; Associated Sand & Gravel, 6300 Glenwood Ave., Everett; Frank Coluccio, 7778 Seward Park Ave.; Harold Kaeser Co., 3629 34th Ave. S.; John Patricelli, 1534 32nd Ave. S.; Hanson Construction Co., 12701 Palatine Ave.; Murphy Bros., E. 3728 Broadway, Spokane; W. L. Ridge Construction Co., E. 3122 Sharp, Spokane; Matheson & Villella, 3612 Norton, Everett; Joe Lundberg Construction Co., 3420 13th S.W.; Thorburn & Logozo, 4608 36th Ave. S.W.; H. D. Fowler Co., 901 Lane St.; Pacific Water Works Supply, 2900 1st Ave. S.; Matt Malaspina & Co., 1901 23rd Ave. S.; Einer Jacobson, Route 4, Box 466, Puyallup; Rainier Mechanical Contractors, Box 2128, Tacoma; Walters Construction Co., Box 194, Cosmopolis; Superior Construction Co., 4610 37th S.W. Of Seattle except as noted.

PD 9-17. Previous report 9-7

BEN FRANKLIN HYDROELECTRIC PROJECT— Richland, Wash.
(Estimated cost $600,000)

A preliminary permit has been requested of the Federal Power Commission by Washington Public Power Supply System, Owen Hurd, managing director, c/o Benton County PUD No. 1, 524 S. Auburn, Kennewick, for the proposed Ben Franklin hydroelectric project on the Columbia River in Franklin and Benton counties. The project would be designed to have 480,000 kilowatts installed generating capacity initially and an ultimate total of 600,000. The system proposes to build a dam about 8 mi. north of Richland to create a reservoir extending upstream about 50 mi. to the tailrace of Priest Rapids Dam. The WPPSS is comprised of 17 PUD's within the state of Washington but is an independent municipal corporation. SC 9-17

★FLOODLIGHTING SYSTEM— Richland, Wash.

Award to Kehne Electric Co., 416 Helena, Spokane, $31,540, by Richland School District No. 400, Richland, for installation of a bomber bowl floodlighting system for Columbia High School in Richland. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima. SP 9-13. Previous report 8-20

★SCREEN STRUCTURES— Seattle, Wash.

Award to Roller Construction Co., Route 3, Box 489, Shelton, $18,100 ($6,752 Sched. 1, $5,562 Sched. 2, $5,790; Sched. 3), by State Director of Game, John A. Biggs, 509 Fairview Ave. N., Seattle, for construction of three revolving screen structures at McMurray Lake (Sched. 1), at Wildcat Lake (Sched. 2) and at Hayden Lake (Sched. 3). SP 9-17. Previous report 9-13

▲ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for type I-1 asphaltic concrete paving on 10 mi. of Richmond Beach Road (Aurora Ave. to 8th Ave. N.W.), King County. Bids opened September 16. LOW BID: Washington Asphalt Co., 309 W. 39th, Seattle, $18,950. ONLY OTHER BIDS: Lake City Gravel & Materials, Inc., 10728 Bothell Way, Seattle, $20,890; Associated Sand & Gravel, Box 914, Everett, $22,410.

PD 9-17. Previous report 9-11

■ SURFACING— Seattle, Wash.

Planholders announced for clearing, grading, draining and crushed stone surfacing 1.36 mi. of 236th Ave. N.E. (Premier Road), S.H. No. 2 to Union Hill Road and 1.0 mi. of 156th Ave. J N.E. (Cook Road) P.S.H. No. 2 to N.E. 124th St., King County. Bids will be opened 9:30 a. m., September 23, by King County Commissioners, 402 County-City Bldg., Seattle. Planholders identical for Premier Road and Cook Road.

Planholders: All City Excavating, 8114 9th Ave. S.W.; Northwest Construction Co., 3950 6th Ave. N.W.; Bass Construction, 12526 Aurora; John Patricelli, 1534 32nd Ave. S.; Anderson & Johnson, 11037 Roosevelt Way; Thomas Scalzo, 3211 Airport Way; J. J. Welcome Construction Co., Box 64, Redmond; W. J. Halleran, 13000 Empire Way; Robert L. Marsh, 4071 W. Holgate; I. M. Salmons, Route 1, Box 788, Alderwood Manor. Of Seattle except as noted.
PD 9-17. Previous report 9-6

★**GROUND IMPROVEMENT—Seattle, Wash.**

Award to Baugh Construction Co., 922 Poplar Place, Seattle, $28,970, by Seattle School District No. 1, 815 4th Ave. N., Seattle, for playfield development at Chief Sealth High School, 2500 W. Thistle St., Seattle.
PD 9-17. Previous report 9-11

★**BITUMINOUS SURFACING— Seattle, Wash.**

Award to Bass Construction Co., 12526 Aurora, Seattle, $48,853, by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading and surfacing with light bituminous treatment 0.78 mi. of E. 197th St. and 0.72 mi. of 47th Ave. N.E., King County. PD 9-13. Previous report 8-20

★**CLEARING, GRADING, BITUMINOUS SURFACING— Seattle, Wash.**

Award to Thomas Scalzo, 3211 Airport Way, Seattle, $31,981, by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading, surfacing with light bituminous surface treatment one mi. on N.E. 8th St. (268th Ave. N.E. to 244th Ave. N.E.), King County.
PD 9-13. Previous report 8-13

★**CYCLONE FENCE— Seattle, Wash.**

Award to Eldorado Fence Co., 1442 Trestle Glen, Oakland, Calif., $10,631, by Board of Public Works, 512 County-City Bldg., Seattle, for furnishing and installing 3,050' of 8" high galvanized wire cyclone fence at Bitter Lake Reservoir; Ord. No. 85070.
PD 9-13. Previous report 9-5

★**CEMENT CONCRETE PAVING— Seattle, Wash.**

Award to only bidder Pacific Construction Co., 3002 16th Ave. S., Seattle, $41,706, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing 4,700 sq. yd. of 6" cement concrete, 2,500' curb, miscellaneous items on 33rd Ave. S.W., et al, LID 6164.
PD 9-13. Previous report 9-5

★**SURFACING— Seattle, Wash.**

Award to All City Excavating, 8114 9th Ave. S.W., Seattle, $28,152, by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading and crushed stone surfacing 1.06 mi. of Creosote Road (SSH 2-A to 116th Ave. S.E.).
PD 9-18. Previous report 9-10

●**PLAYGROUND IMPROVEMENTS— Seattle, Wash.**

Bids will be opened 10 a.m., October 1, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing all labor and materials to complete improvements at B. F. Day playground. Specifications with above office.
PD 9-18

●**PAVING, STORM DRAINS—Selah, Wash.**

Bids to be opened 8 p.m., September 30, by Town Council, Town Hall, Selah, for construction of asphaltic concrete pavement and necessary surface inlets and storm drains. Plans with Mabel S. Darby, town clerk, above address, and Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. $25 deposit.
IG 9-18

●**STEEL BRIDGE—Skamania County, Wash.**

Bids to be opened 10 a.m., October 4, by Bureau of Public Roads, B. M. French, regional engineer, 757 Morgan Bldg., Portland, Ore., for constructing 598' steel deck truss bridge, Washington Forest Highway Project 30-C, Wind River Highway, Gifford Pinchot National Forest, Skamania County, Wash. Plans with above office.

Quantities: 1,026 c.y. concrete; 800 c.y. structure excavation; 94,000 lb. reinforcement steel; all reqd. structural steel; 1,181' steel bridge rail.
DM 9-17

★**TOWER STEEL— Snohomish, Vancouver, Wash.**

Award by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering tower steel fob Snohomish and Eavan Spur, Vancouver, Wash.; Inv. No. 8508. AWARD: Bethlehem Pacific Coast Steel Corp., San Francisco, $81,758 (fob. Seattle). OTHER BIDS(All fob destinations): Creamer & Dunlap, Inc., Tulsa, Okla., $86,705; Pacific Fabricators, Inc., Portland, $88,132; Anchor Metal, Inc., Hurst, Tex., $95,430. Bids received August 21.
WB 9-5. Previous report 8-6

★**STATE HIGHWAY PROJECT— Yakima, Wash.**

Award to C. H. Savage Co., 4126 S.E. Milwaukie Ave., Portland, $10,456, by Washington State Highway Commission, Olympia, for cleaning and painting seven bridges on State Highway Nos. 3, 5, 3E and 11A, involving Bristol Fill Bridge, et al, Kittitas, Yakima and Walla Walla counties; a State Project. Bids opened August 15 by R. H. Pile, district engineer for the highway department, Yakima.
DE 9-11. Previous report 8-22

IDAHO

POWER REACTOR— Arco, Idaho
(Estimated cost $40,000,000)

Congress has approved $3,000,000 for development, design and engineering on the natural uranium gas-cooled power reactor to be built at the AEC installation at Arco, for Atomic Energy Commission, Box 1221, Idaho Falls.
GH 9-10

▲**IRRIGATION PIPE— Boise, Idaho**

Bids are being held under study by Boise Independent School District, 1207 Fort St., Boise, for furnishing 24" concrete irrigation tile or corrugated metal pipe for the Hawthorne School. Bids opened August 19. ONLY BIDS: Beall Pipe & Tank Corp., 225 Broadway, Boise, $1,113; Armco Drainage & Metal Products, 227 S. 3rd St., Boise, $1,170 (alt. $1,120 and $1,113).
SP 9-7. Previous report 8-9

★**SEPTIC TANK, DRAIN FIELD— Boise, Idaho**

Award to Crane Excavating Co., Box 6, Eagle, $1,347, by Boise Independent School District, 1207 Fort St., Boise, for installation of a septic tank and drain field at Franklin School.
SP 9-13. Previous report 8-1

●**GUARD RAIL— Boise, Idaho**

Bids will be opened 11 a.m., September 23, by Ted Cramer, state purchasing agent, 225 State House, Boise, for guard rail for the highway department at Pocatello. Specifications with Boise office.
DC 9-18

★**STATE HIGHWAY PROJECTS— Boise, Idaho**

Three awards have been made by the Department of Highways, 603 Main St., Boise, on highway construction projects on which bids were opened September 10.

SURFACING, HOSPITAL AREA — Grading, bituminous surfacing streets and parking areas at State Hospital South, Bingham County.

AWARD: Pickett & Nelson, 150 4th St., Idaho Falls, $10,417.

BRIDGES, ROADMIX SURFACING-FAIRFIELD EAST AND JCT. 68-C — Construct roadway, five concrete bridges, roadmix bituminous surfacing on 5.126 mi. of State Highway 68, Fairfield E. and 5.153 mi. State Highway 46, Jct. 68 S., furnishing crushed gravel, cover coat material in stockpiles; FAP Nos. S-2809 (4), S-2779(3), Stockpile No. 183, Camas County.

AWARD: Marion J. Hess, Malad, $423,138.

SEAL COATING—REGINA-BEACON INN: Constructing unstable areas and seal coating 4.250 mi. U.S. Highway Nos. 20, 26 and 30, Ada and Elmore counties; State Proj. No. ST-3022(522).

AWARD: Morrison - Knudsen Co., Inc., Boise, $37,472. DM 9-18. Previous report 9-12

■**SEWER SYSTEM ADDITIONS— Bonners Ferry, Idaho**

Planholders announced on construction of additions to the sanitary sewer system at Bonners Ferry on which bids will be opened 8 p.m., September 27, by Harold Buroker, village clerk, in the Village Hall, Bonners Ferry. Specifications with above office and with Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. Project involves sewage lift station, 6,200' of 8" sewer pipe and 160' of 8" steel pipe.

Planholders: Ruud Construction Co., 602 Realty Bldg., Spokane, Wash.; Hilton Lawrence Co., E. 41 Gray Ave., Spokane; Lee Hann, N. 7716 Smith, Spokane; Kraeger Construction Co., 4103 N. Driscoll Blvd., Spokane; Lester N. Johnson Co., 1318 N. Fancher, Spokane; Murphy Bros., Box 2193, Spokane; M. F. Castle, N. 10503 Division, Spokane; Arnold & Jeffers, Box 2192, Spokane; H. D. Fowler Co., Box 3084, Seattle, Wash.; John Knowles, 1040 Monroe, Wenatchee, Wash.; Pacific Pumping Co., 526 N.W. Broadway, Portland, Ore.; Armco Drainage and Metal Products, Inc., Box 751, Portland, Ore.; H. E. Schimmels Co., Box 262, Dishman; Pacific Water Works Supply Co., 2900 1st S., Seattle; Intermountain Co., Box 1869, Boise.
IG 9-17. Previous report 9-10

★**ELECTRICAL EQUIPMENT, ROADS, IRRIGATION— Iona, Idaho**

Award to Aiman Construction Co., Box 913, Idaho Falls, $12,637, by Bonneville Class A School District No. 93, Iona, for installation of electrical equipment and construction of roads, sidewalks, curbs, planting areas, irrigation system for the new Central High School at Iona. Plans by C. A. Sundberg & Associates, architects, 11 E. 16th, Idaho Falls. Bids opened August 19.
SP 9-17. Previous report 8-14

●**SEWAGE DISPOSAL LINES— Lewiston, Idaho**

Bids to be opened 7:30 p.m., October 14, by City Council, City Hall, Lewiston, for construction of sewage disposal lines in city. Plans with Elmer Sonniville, city engineer, City Hall. $5 deposit. Guarantee 5%.

Quantities: 9,700' excavation and backfill; 1,800' of 12", 11,600' of 8" pipe; 41 manholes; three lampwells. Alternate on type of pipe will be received.
DM 9-17

●**SEWER PROJECT— Lewiston, Idaho**
(Estimated cost $55,000)

Bids will be opened 8 p.m., October 7, by City Council, City Hall, Lewiston, for sewer work in north Lewiston. Specifications with Elmer E. Soniville, city engineer, Lewiston. $5 deposit. Bid bond 5%.

Quantities: 9,700 c.y. excavation and backfill; 1,800' of 12", 11,600' of 8" pipe (alternates on types of pipe); 41 manholes; 3 lampwells.
SP 9-14

▲**SLIDE REPAIR— Lucky Peak Reservoir, Idaho**

Award is pending on slide repair on Highway 21, Lucky Peak Reservoir, near Boise, CIVENG-45-164-58-7, on which bids were opened September 13 by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla. BIDS: Foss & Holmes, Box 232, Boise, $63,698; Karl Woodall, 2114 Pond, Boise, $51,025; Quinn Bros. & Robbins, Inc., Box 1126, Boise, $64,650; Earl L. McNutt Co., 351½ Broadway, Eugene, Ore., $77,588; C. H. Elle Construction Co., Box 1190, Pocatello, $91,127; Macgregor Triangle Co., 200 Sunrise Rim, Boise, $65,036. Government estimate, $44,982.
DM 9-18. Previous report 8-31

★**STEEL PEDESTRIAN BRIDGE— Moscow, Idaho**

Award to John E. Thomas, 408 N. Hayes, Moscow, $2,887, by City Council, City Hall, Moscow, for construction of a steel pedestrian bridge across Paradise Creek on Home St. in Moscow.
SP 9-13. Previous report 9-6

▲**DRIFT CONTROL MODIFICATIONS—** **Pend Oreille, Idaho**

Bid received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modifications to drift control, consisting of driving 1,680' untreated timber piling and dividing 200' existing log booms to form 100' sections, and adding float logs under booms at two drift control sites in the Albeni Falls reservoir, Lake Pend Oreille; CIVENG-45-108-58-7. Bids opened September 12. ONLY BID: Kenmor Marina, Inc., Sandpoint, Idaho, $23,920. Engineer's estimate, $33,644. SP 9-14. Previous report 9-6

★**HYDRAULIC LIFT—** **Pocatello, Idaho**

Award to Safway Scaffold & Power Tool Co., 2923 Idaho, Boise, $2,568, by Ted Cramer, state Purchasing agent, 225 State House, Boise, for a bulb snatcher hydraulic lift for Idaho State College at Pocatello. Bids opened August 26.

SP 9-7. Previous report 8-15

SEWAGE PROJECT— **Sandpoint, Idaho**
(Estimated cost $278,000)

Bond issue of $140,000 was approved in the September 10 special election held by City Council, City Hall, Sandpoint, to finance construction of a sewage disposal plant, including lift station and outfall line, at Sandpoint. SC 9-18. Previous report 8-13

BURNS CREEK DAM, POWERPLANT— **Snake River, Idaho**
(Estimated cost $44,240,000)

The U. S. Senate has approved construction of the Burns Creek dam and powerplant to be located 30 mi. downstream on the Snake River from Palisades Dam in Idaho, for Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo. The project has yet to go to the House for final action. Operation of the dam, powerplant and reservoir would be in conjunction with the existing Palisades reclamation project.

GH 9-10

●**BANK PROTECTION REPAIR—** **Snake River, Idaho**

Bids will be opened 2 p. m., October 10, by Corps of Engineers, Walla Walla office, Bldg. 602, City-County Airport, Walla Walla, for repair of bank protection at the Blackfoot Area, Snake River, Idaho; CIVENG-45-164-58-14. Specifications with above office. Bid bond 20%. Quantities: 6,000 c.y. excavation; 5,100 c.y. embankment; 4,900 c.y. dumped riprap. SP 9-12. Previous report 9-10

MONTANA

★**CURB, GUTTER, DUMP TRUCKS—** **Billings, Mont.**

Awards announced on construction of combination curb and gutter and drive approaches in SID No. 713 and on furnishing two dump trucks. Bids opened by City Council, Billings, September 10. AWARDS—Hitz Construction Co., 2111 4th N., Billings, $1,269 (SID 713); International Harvester Co., $15,440 (trucks).

EE 9-18. Previous report 8-27

●**PAVING, STORM SEWERS—** **Bozeman, Mont.**

Bids will be opened 1 p. m., September 30, by City Council, City Hall, Bozeman, for street improvement involving paving, curb and gutter in SID Nos. 389, 390, 391, 393, 394, 395 and 398, and for construction of drainage improvements, involving storm sewers and inlets, in SID No. 392, Bozeman. Specifications with Harold Hoskins & Associates, consulting engineers, 24th and River Drive, Great Falls. $25 deposit on one set, $25 each additional set. Certified check 10%.

Quantities: 106,050 sq. yd. pavement; 11,500' of 12" to 36" reinforced concrete pipe and appurtenances; 1,376' of 10" portland cement pipe. SP 9-17. Previous report 8-21

▲**SIDEWALKS, CURBS, PUMPS, EXCAVATION—** **Chinook, Mont.**

Bids received by City Council, City Hall, Chinook, for sidewalks, curbs and pumps in SID No. 41, and for excavation work in that district in west Chinook. LOW BIDS—SIDEWALKS, CURBS, PUMPS: Oliver Schubert, Chinook, $83,601. EXCAVATION: Willis Morris, Chinook, $49,458. SC 9-17

★**WATER SYSTEM IMPROVEMENTS—** **Chinook, Mont.**

Awards to Frank Papillo, Havre, $163,174 (water system) and Chicago Bridge & Iron Co., Salt Lake City, Utah, $68,880 (storage tank), by City Council, City Hall, Chinook, for water system improvements, including a new distribution system and a 200,000-gal. capacity elevated storage tank. Specifications by Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena.

SP 9-11. Previous report 8-30

★**EARTHWORK, STRUCTURES FOR DRAINS—** **Glendive, Mont.**

Award to Holm-Sutherland Co., Inc., Box 578, Billings, $43,348, by Bureau of Reclamation, Glendive, for earthwork and structures for open and closed drains 1-6-Q, 2-7-S, 2-3-K2, 2-3-K3, in the counties of Custer, Prairie and Dawson near the towns of Glendive and Terry, Mont.; Spec. No. 600C-179. SP 9-11. Previous report 8-23

WATER SYSTEM— **Great Falls, Mont.**
(Estimated cost $2,600,000)

The City Clerk, City Hall, Great Falls, has issued invitations to several engineering firms to submit proposals for engineering work on the proposed water system improvements in Great Falls. The proposals will be considered by the City Council on September 13. The firm of Black & Veatch, consulting engineers, 4706 Broadway, Kansas City, Mo., did preliminary work on the project and advised the council that it had believed that it would be retained for the entire project. SC 9-12. Previous report 8-29

●**STATE HIGHWAY PROJECT—** **Helena, Mont.**

Bids will be opened October 24 by Montana State Highway Commission, State Capitol Bldg., Helena, for the following highway construction project. Specifications with above office.

MONTANA AVENUE OVERPASS—BILLINGS: Construction of 1,721' overpass crossing Northern Pacific railroad tracks at the west end of Montana Ave. in Billings.

EE 9-13

★**DISTRIBUTION SYSTEM, STORAGE TANK—** **Hingham, Mont.**

Award to Joe Fagenstrom & Son, Black Eagle, $41,953, by Town Council, Hingham, for construction of a water supply distribution system (Sched. 1) in Hingham. Plans by Wenzel & Co., Country Club Addition, Great Falls. Award on storage tank (Sched. 2) not released.

SP 9-12. Previous report 8-20

●**DRILL, CASE WELL—** **Kalispell, Mont.**

Bids to be opened 10 a. m., P.S.T., October 3, by Fish and Wildlife Service, The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, Ore., for drilling, casing a fresh water supply well at Creston Fish Cultural Station near Kalispell, Mont. Plans with Leo L. Laythe, regional director, Box 373, Portland, Ore.

DM 9-17

★**RESERVOIR, PUMPHOUSE, PIPING—** **Miles City, Mont.**

Award to Regan Plumbing & Heating, 11 S. 9th, Miles City, Mont., $169,133, by U. S. Fish & Wildlife Service, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for construction of reservoirs, ponds, ditches, dikes, piping, reinforced concrete structure, pumphouses, pumps, roads and allied appurtenances at the proposed U. S. Fish Cultural Station about one mi. south and west of Miles City.

WB 9-18. Previous report 8-14

●**GRADING, BRIDGE—** **Missoula, Mont.**

Bids will be opened 10 a. m., October 2, by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for grading, surfacing and constructing an 80' reinforced concrete bridge on 7.878 mi. West Gallatin Highway, Gallatin National Forest, Gallatin County, Mont.; FHP No. 42-J5, K1. Specifications with above office. Bid bond 5%.

Quantities: 20 acre clearing and grubbing; 260,000 c.y. excavation; 483,000 sta. yd. overhaul; 50,700 ton crushed aggregate base; 99,000 gal. asphalt; 185 c.y. concrete; 43,000 lb. reinforcing steel; 264' structural plate pipe arch; 3,800' culvert pipe. SP 9-17

★**COUNTY ROAD RELOCATION—** **Noxon Rapids, Mont.**

Award to Murphy Bros., Inc., E. 3728 Broadway, Spokane, $20,000, by Washington Water Power Co., Inc., W. 825 Trent, Spokane, for relocating .3 mi. of county road near the mouth of Trout Creek, involving raising the road from its present level where it crosses Trout Creek to above the water line of the Noxon Rapids Reservoir. SC 9-13

ALASKA

▲**ROCK BREAKWATER—** **Haines, Skagway, Alaska**

Late bids were received (delayed in mail) by Alaska Public Works, Juneau, on construction of rock breakwater at Haines and Skagway small boat harbors. HAINES: Rock & Dirt Construction, Box 3241 Eastchester Branch, Anchorage, $137,748 and an offer of $24,000 reduction if awarded both contracts. SKAGWAY: Rivers Bros. & Wright, $137,368; Rock and Dirt, $92,049, with reduction offered for both contracts. Keil Peterman, Juneau, is low at $123,000 on Haines job and $110,000 on Skagway.

JU 9-14. Previous report 9-12

▲**PAVING—** **Ladd AFB, Alaska**

The only bid, submitted by S. S. Mullen, Inc., Box 712, Fairbanks, in the amount of $18,877, was rejected by U. S. Air Force, Procurement Office, Bldg. 1564, Wing 4, Ladd AFB, for installation of additional paving at road intersections on the base. Bid was opened August 29 and readvertisement for bids will not be issued.

SP 9-14. Previous report 8-24

●**SIDEWALKS—** **Juneau, Alaska**

Bids to be opened 3 p. m., September 27, by General Services Administration, 126 Federal Office Bldg., 909 1st Ave., Seattle, Wash., for screenline changes and sidewalk at the Federal and Territorial Bldg., 4th, 5th and Main streets, Juneau, Alaska; SEA-598. Plans with Seattle office. DM 9-17

NORTHERN CALIFORNIA

●**SANITARY SEWER, PAVING—** **Belmont, Calif.**

Bids on two projects will be opened 8 p.m., October 14, by City Council, City Hall, Belmont: Improvement of Winding Way, Ross St., and North Road sanitary sewer project; and repaving for the Panorama Heights improvement project. RC 9-21

▲**UTILITIES—** **Davis, Calif.**

Bids received by Regents of the University, Administration Bldg., University of California, Davis, for construction of utilities for Campbell Tract, University of California, Davis campus. Work includes furnishing and installing gas and water utility systems complete with pipe, valves, fittings, pipe supports, pipe blocks, trenching. Bids opened September 6. LOW BIDS: John H. McCosker, 1501 E. Shore Blvd., Berkeley, $90,000; Luppen and Hawley, 3126 J St., Sacramento, $98,756; Associated Engineers, Inc., 3606 El Camino Real, Palo Alto, $93,550.

EB 9-21. Previous report 8-31

SQUAW CREEK DAM— **El Dorado, Calif.**

The South Side County Water District has authorized Engineer Claude Hill to make a preliminary survey of the feasibility of a dam site on Squaw Creek, six mi. southeast of Placerville, El Dorado County. Chairman John C. Forni of the district board said it is believed the site will store 21,000 acre feet of water, for which the district holds rights on Clear Creek and Camp Creek. If

the preliminary survey supports the feasibility of the project, the board will request the reclamation bureau to survey the site. RC 9-21

▲GUARDHOUSES, PARKING AREA, ELECTRICAL LINE— Folsom, Calif.

Bids received by Bureau of Reclamation, Folsom, for constructing guardhouses and parking area (Sched. 1), and 4.16-kv. distribution line (Sched. 2), Folsom Dam, near Folsom in Sacramento County (Central Valley Project), Spec. No. 200C-365. Bids opened September 12. LOW BIDS: Sched. 1—Brighton Sand & Gravel Co., Box 1, Perkins, $71,-331; Granite Construction Co., Box 900, Watsonville, $78,665; A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $78,974. Sched. 2 (only bids)—Slater Electric Co., 608 Sutter S., Folsom, $9,232; Collins Electrical Co., Inc., 611 W. Fremont St., Stockton, $12,343. RM 9-21. Previous report 8-31

LEVEE— Lodi, Calif.

Bids will be called at a later date by the City Council, City Hall, Lodi, for construction of a new flood-control levee on the Mokelumne River. The levee will be between 3,000′ and 4,000′ long, and 51½′ high, extending from Roper Ave. to Laurel Ave. in Lodi. Plans and specifications, prepared by City Engineering Department, A. C. Heckenlaible, city engineer, have been approved.

Quantities: 3,800 c.y. excavation of inspection ditch; 41,500 c.y. construction of levee embankment; 47 c.y. construction of concrete wall. RM 9-21. Previous report 9-7

●STREET RESURFACING—Martinez, Calif.

Bids will be opened 11 a.m., October 1, by Board of Supervisors, Contra Costa County, Martinez, for resurfacing Pacifica Ave. from Riverview Intermediate School to Flumaveg Rd.; Proj. No. 5093-57-1. Specifications available from Public Works Department, Box 509, Martinez. $2.50 charge. Completion time 30 days.

Quantities: 60,000 gals. water, furnish and apply; 1,000 c.y. roadway excavation; 2,200 tons untreated base; 450 tons plant-mixed surfacing; 70′, 12″ corrugated metal pipe, 16 gage; 58′, 18″ corrugated metal pipe, 16 gage. RM 9-21

★STREET IMPROVEMENT— Millbrae, Calif.

Award to Bragato Paving Co., 500 Bragato Rd., Belmont, $9,475, by City Council, Millbrae, for improvement of Magnolia Ave. at City Hall site in Millbrae. Bids opened September 3. EB 9-21. Previous report 8-31

FLOOD CONTROL PROJECT— Oakland, Calif.

The Board of Supervisors of the Flood Control and Water Conservation District has approved hiring three private engineering firms to begin work immediately on right-of-way surveys for the $5,000,000 San Lorenzo Creek flood control project. The firms are Murray & McCormick Inc., John A. Mancini and Martin V. Williams. James F. Vivrette, engineer-manager of the floor control district, estimates the private firms will complete the surveys in two months. The Corps of Engineers expects to award a contract next spring for construction of the initial stage of the project—improvement of San Lorenzo Creek from San Francisco Bay to B St. in Hayward. RC 9-21

HYDROELECTRIC AND WATER PROJECT Oakland, Calif.

The Eastbay Municipal Utility District has formally applied to the Federal Power Commission for a license to build a $63,917,000 hydroelectric and water project on the Mokelumne River and its south fork, in Amador, Calaveras, and San Joaquin counties. The proposal is part of the $95,000,000 long range plan to bring an additional 125,-000,000 gals. of water a day to the Eastbay.

The proposed project includes three dams to be built at Middle Bar, Camanche and Railroad Flat, with a generating capacity of 31,500 kilowatts. EBMUD also proposes to construct crest gates at its existing Pardee Dam to increase storage, and to enlarge the Pardee power plant by adding 7,500 kilowatts of generating capacity to make a total of 22,500. An 80-mile aqueduct 87″ in diameter would be built to parallel the district's two existing Mokelumne aqueducts, extending from the west portal of the Pardee Tunnel to the district's Walnut Creek pumping plant. The district also would build a second Pardee outlet tower and tunnel paralleling the existing tower and tunnel system which interconnects the Pardee Reservoir and the existing aqueducts. RC 9-21

▲DRAIN— Oakland, Calif.

Bids received September 12 by City Council, City Hall, Oakland, for construction of a drain in Hillmont Drive, 150′ more or less, easterly of 75th Ave. and in lots 4 and 5, Leona Heights Addition, adjacent thereto, in Oakland. BIDS: McGuire & Hester, 796 66th Ave., Oakland, $4.50 (per linear ft. of shafts with rock backfill), $17.00 (per linear ft. of 6″ perforated vitrified clay pipe drain placed in rock backfill), $6.00 (per linear ft. of 1½″ pipe drain, in boring); George F. Casey Co., 1337 2nd St., Berkeley, $8.70, $6.50, $6.25; P & Z Co. Inc., 120 S. Maple Ave., South San Francisco, $5.74, $26.24, $4.25. RM 9-21

●STREET IMPROVEMENT— Oakland, Calif.

Bids will be opened 12:30 p.m., September 26, by Gladys H. Murphy, city clerk, City Hall, Oakland, for improvement of Altamont Ave. between Sunnymere Ave. and Hillmont Drive, including grading, and construction of selected material sub-base, concrete curb, concrete gutter, crusher run base, asphaltic concrete surface course, concrete sidewalk, and concrete driveways, Res. No. 36224 C.M.S. Specifications available at above address. Certified check or bid bond 10%. RC 9-21

●PAVING, FENCE— Oakland, Calif.

Bids will be opened 4 p.m., September 24, by Selmer H. Berg, secretary, Board of Education, City of Oakland and Oakland Unified School District of Alameda County, 1025 Second Ave., Oakland, for two projects. PROP. No. 1—Grading and paving adjacent to the site of the Franklin Elementary School, 915 Foothill Blvd., Oakland. PROP. No. 2—Installation of a chain-link fence adjacent to the site of the Franklin Elementary School. Plans available from Director of Architectural and Engineering Services at above address. Cashier's check, certified check or bid bond—Prop. No. 1, $200. Prop. No. 2, $250. RC 9-21

●WATER RESERVOIR— Oakland, Calif.

Bids will be opened 2 p.m., September 27, by East Bay Municipal Utility District, room 104, 2130 Adeline St., Oakland, for completing the excavation for and constructing an 80 MG capacity concrete lined and covered water storage reservoir near San Pablo, Calif. Spec. No. 702. Specifications available at the district's engineering department, above address.

Quantities: excavation, 15,000 c.y.; embankment, 15,000 c.y.; concrete, 10,700 c.y.; precast concrete roof, 375,000 sq. ft. RC 9-21

SEWAGE DISPOSAL PLANT— Oroville, Calif.

Oroville area residents have reviewed a series of surveys concerning engineering and financing, but no action has been taken on a plan to construct a $1,000,000 sewage disposal plant in Oroville. RC 9-21

▲CLEARING, GRUBBING— Placerville, Calif.

Bids received September 10 by El Dorado County Board of Supervisors, Court House, Placerville, for clearing and grubbing of the landing strip area and clear zones at Lake Tahoe airport, Federal Aid Airport Project No. 9-04-115-802. LOW BIDS: Joe Vicini, Box 206, Placerville, $11,680; J. H. Trisdale, Inc., Box 779, Redding, $11,800; Clayton C. King, 69 Grand Ave., Oroville, $23,500. RM 9-21

RESERVOIR— Redwood City, Calif.
(Estimated cost $471,135)

The City Council of Redwood City has voted to advertise for new bids on the Sequoia Reservoir project, after having rejected all previous bids, the lowest of which was $100,000 in excess of the funds on hand for the purpose. The new invitation to bidders will be based on revised designs that are to be submitted and recommended by engineer Lawrence G. Brian, Redwood City. Bids will be asked on two redesigned 4,000,-000 gal. concrete reservoirs, two 4,000,000 gal. steel reservoirs, and one 8,000,000 gal. steel reservoir, along with separate bids for painting and offsite and onsite piping. Brian estimated that the new specifications should be ready in about 30 days. RC 9-21. Previous report 8-31

★SUBSTATIONS— Sacramento, Calif.

Award to B & B Construction Co., 937 49th St., Sacramento, $9,489, by Sacramento Municipal Utility District, 59th & R, Sacramento, for furnishing and installing three substations—Bercut Richards, 34th & E (Rio Linda), and Kathleen and Academy—including grading, surfacing, transformer pad, conduit, grounding system, and chain link fencing. Bids opened August 28. RM 9-21. Previous report 8-24

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids to be opened 2 p.m., October 2, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

IX-INY-1242—Grade and pave with road-mixed surfacing on imported base material, about 3.9 mi., on Whitney Portal Rd. between Hunter's Flat, 11.7 mi. west of Lone Pine, and near National Forest Boundary, Inyo County.

III-NEV-765—Grade about 3 mi. of two-lane highway and install drainage facilities on Tyler-Foote Rd., between Kennedy Ranch and 0.7 mi. west of North Columbia Nevada County.

III-PLA-STATE PARK—Grade and surface roads, parking areas and launching ramps with portland cement concrete and plant-mixed surfacing and install drainage facilities, electrical and water conduits in Folsom Lake State Park, at Beal's Point and Granite Bay, Placer County.

II-LAS-1232—Clear and grub about 10.3 mi. of highway right-of-way on Feather Lake Highway, about 20 mi. northwest of Susanville, Lassen County. RM 9-21

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, for the following highway construction on which bids were opened September 4.

I-MEN-56-D—Repairing bridge across Big River, about 12 mi. south of Fort Bragg in Mendocino County. AWARD: Al Erickson Co., Box 284, Napa, $11,722.

I-MEN-56-G,H—Construct two reinforced concrete slab bridges, and grade and treat bridge approach roadways with penetration treatment on imported base material, about 0.3 mi. near Rockport, at the South Fork of Cottoneva Creek and at Cottoneva Creek in Mendocino County. AWARD: Tom Hull, 930 Carlson, Eureka, $80,496. RM 9-21. Previous report 9-7

WATER POLLUTION STUDY— San Francisco, Calif.

The State Water Pollution Control Board has approved spending $700,000 for water pollution studies in the San Francisco and central valleys areas. Dewitt Nelson, chairman of the Board, said that $390,000 will be used for a study of control problems in San Francisco Bay. An additional $170,000 is to be used for a one-year study on the Sacramento River. RC 9-21

●SEWAGE DISPOSAL AND WATER SYSTEMS— San Francisco, Calif.

Bids will be opened about October 15 by Corps of Engineers, 180 New Montgomery St., San Francisco, for construction of two sewage disposal systems and increasing and extending two water supply systems at two locations in the San Francisco Defense area, special AAA sites, SF-08 and 09, San Pablo Ridge, Contra Costa County, SF-31, Lake

Chabot, Alameda County. Serial No. ENG-04-203-58-9. Work includes 13,000', 4" and 8" V.C. gravity, 4" C.I. force sewer lines, and 4,000', 3" and 4" water supply lines. Systems include two concrete block pump stations, a primary sewage treatment plant consisting of an Imhoff tank and two sludge beds. Also included are fencing, creek crossing structure, cattle guard, approximately 1,000 sq. ft. of stabilized aggregate surfacing and wood bumpers, drainage facilities, outside electrical distribution, and seeding. Specifications available at above office. Bid bond 20%. Completion time 100 days. RM 9-21

★**PUMPING PLANT— Stockton, Calif.**

Award to Stockton Construction Co., 639 W. Clay St., Stockton, $23,790, by City Council, City Hall, Stockton, for construction of stormwater pumping plant at Brookside Tract in Stockton. Bids opened September 10. OTHER BIDS: Goold & Son, 1601 Turnpike Rd., Stockton, $24,444; D. A. Parrish & Sons Inc., 3128 E. Miner Ave., Stockton, $22,810; C. Norman Peterson Inc., 2832 Ninth St., Berkeley, $32,129. RM 9-21

★**PUMPING PLANT— Stockton, Calif.**

Award to Stockton Construction Co., Inc., 639 W. Clay St., Stockton, $37,647, by City Council, City Hall, Stockton, for construction of the Buena Vista stormwater pumping plant in Stockton. Bids opened September 10. OTHER BIDS: R. Goold & Son, 1601 Turnpike Rd., Stockton, $34,369; C. Norman Peterson, Inc., 2832 Ninth St., Berkeley, $38,530. RM 9-21

★**STREET RESURFACING— Stockton, Calif.**

Award to S. M. McGaw Co. Inc., 2216 E. Miner Ave., Stockton, $13,808, by City Council, City Hall, Stockton, for resurfacing E. Main St. for ¾ mi. between Locust and Filbert Sts. in Stockton. RC 9-21

▲**SEWAGE DISPOSAL PLANT— Tracy, Calif.**

Bids received September 10 by City Council, City Hall, Tracy, for construction of a sewage disposal plant and West Side sewer trunk line in Tracy. Bids on the disposal plant were made on two alternate methods of construction, one including a digestive system, and the other incorporating a catalytic reduction system. Two bids, with and without the new reduction system, were submitted by each contractor. Bids are being held under advisement until October 8. LOW BIDS—DISPOSAL PLANT: Peletz Construction Co., 475 W. College Ave., Santa Rosa, $224,170, $216,170; North Bay Construction Co., 450 College Ave., Santa Rosa, $240,762; $226,762; C. Norman Peterson Inc., 2832 Ninth St., Berkeley, $248,748, $234,549. TRUNK LINE: Jackson Hopkins Co., Box 490, Bakersfield, $48,278; Hackett Bros. Inc., Box 145, Los Altos, $48,700; G. G. Williamson Co., Box 510, Chico, $51,283. RC 9-21. Previous report 8-24

●**BULKHEAD— Trinity Dam, Calif.**

Bids will be opened 2 p.m., October 17, by Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colo., for the following equipment for the outlet works at Trinity Dam, Central Valley Project, Calif. Spec. No. DS-4968. Schedule 1—Item 1: One 16-ft. diameter, sperical, intake bulkhead. Item 2: One lot of embedded metalwork, but not including anchor bolts, for the spherical bulkhead. Schedule 2—Item 3: One lot of anchor bolts for the spherical bulkhead embedded metalwork. Specifications available at above address. Shipping time 360 days. RM 9-21

●**SITE PREPARATION— Walnut Creek, Calif.**

Bids will be opened 3 p.m., September 26, by Walnut Creek School District, Contra Costa County, 1768 Ygnacio Valley Rd., Walnut Creek, for completion of site work at the following locations: Buena Vista School, 2355 San Juan Ave.; Murwood School, 2050 Vanderslice Ave.; Parkmead Lower Grade School, 1920 Magnolia Way; Parkmead Upper Grade School, 1847 Newell Ave.; Walnut Creek School, 2425 Walnut Blvd.; Walnut Heights School, 4064 Walnut Blvd. Work includes grading, paving, storm drainage. Specifications available from office of the business manager, above address. Certified check or cashier's check 10%. RC 9-21

▲**SIDEWALKS— Woodland, Calif.**

A low bid of $225,798 was submitted by McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, to the Board of Supervisors, Yolo County, Woodland, for installation of sidewalks, curbs and gutters in the West Sacramento Improvement District. Four bids were received. RC 9-21

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.

STEEL DECK TRUSS BRIDGE
BIDS CLOSE 10 A.M., OCTOBER 4
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 19, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 757 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 A.M. on October 4, 1957, for furnishing the material and performing the work for constructing a 598-foot steel deck truss bridge, Washington Forest Highway Project 30-C, Wind River Highway, Wind River Bridge, Gifford Pinchot National Forest, Skamania County, Washington, involving 800 Cu. Yds. Structure Excavation; 1,026 Cu. Yds. Concrete; 94,000 Lbs. Reinforcement Steel; All Reqd. Structural Steel; 1,181 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, 757 Morgan Building, Portland, Oregon. B. M. French, Regional Engineer.
5946—9-21

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., OCTOBER 1
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 1, 1957, 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 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 8 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading and Constructing a Reinforced Concrete Slab Bridge on 2.114 miles of Primary State Highway No. 1 in Whatcom County, FIELDING STREET TO NORTH STREET IN BELLINGHAM, FAP No. I-001-5(23), involving about 55 acres of Clearing, 214,400 cubic yards of Common Excavation, 220,400 cubic yards of Solid Rock Excavation, 74,000 units of Overhaul, 8,650 cubic yards of Excavation of Unsuitable Material, 34,000 tons of Selected Roadway Borrow, 2,600 cubic yards of Sand Borrow, 3,100 tons of Crushed Stone Surfacing, 38 tons of Asphalt Cement, 290 cubic yards of Crushed Cover Stone and Mineral Aggregate, 4,150 tons of Asphaltic Concrete, 9,950 linear feet of Cement Concrete Curb and Gutter, 100 linear feet of Integral Cement Concrete Curb, 1,960 linear feet of Precast Traffic Curb, 110 linear feet of Galvanized Conduit Pipe, 2,459 linear feet of Corrugated Metal Pipe, 12,245 linear feet of Concrete Pipe, 290 linear feet of Copper Pipe, 1,922 linear feet of Cast Iron Pipe, 45,212 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 150 linear feet of Beam Guard Rail, 3,005 square yards of Cement Concrete Sidewalk and Driveway, a lump sum bid for Superstructure (about 530 cubic yards of Concrete and 99,000 pounds of Steel Reinforcing Bars), 983 cubic yards of Concrete, 122,840 pounds of Steel Reinforcing Bars, 409 linear feet of Standard Bridge Railing, 4,200 linear feet of Treated Timber Piling, 16,000 linear feet of Untreated Timber Piling and other items. Minmum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Clearing, Draining and Grading on 1.521 miles of State Highway No. 1 in Pierce County, PONDERS TO N. P. RAILWAY, FAP No. I-001-3(19) Unit 2, involving about 95 acres of Clearing, 417,000 cubic yards of Common Excavation and Borrow, 185,500 units of Overhaul, 14,700 tons of crushed Stone Surfacing and Special Gravel Surfacing, 4,400 cubic yards of Top Soil, 41 tons of Asphalt Cement, 380 cubic yards of Crushed Cover Stone and Mineral Aggregate, 2,930 tons of Asphaltic Concrete, 3,643 linear feet of Asphaltic Shoulder Curb, 202 linear feet of Asphaltic Concrete Spillway and Gutter, 170 linear feet of Precast Traffic Curb, 194 cubic yards of Concrete, 43,840 pounds of Steel Reinforcing Bars, 868 linear feet of Concrete Pipe, 2,650 linear feet of Corrugated Metal Pipe, 462 linear feet of Beam Guard Rail, 70 Guide Posts, 477 cubic yards of Riprap, 2,400 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.
3. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base and

Paving with Type I-1 Asphaltic Concrete on 1.613 miles of Secondary State Highway No. 1-T in Clark County, VANCOUVER LAKE VICINITY, FAS No. S-0261(2), involving about 16 acres of Clearing, 176,300 cubic yards of Common Excavation, 9,230 units of Overhaul, 2,800 cubic yards of Excavation of Unsuitable Material, 29,600 tons of Ballast and Crushed Stone Surfacing, 4,530 tons of Asphaltic Concrete, 440 cubic yards of Mineral Aggregate, 44 tons of Asphalt Cement, 7,500 tons of CTB Aggregate, 1,600 barrels of Portland Cement, 3,100 linear feet of Asphaltic Shoulder Curb, 2,010 linear feet of Concrete Pipe, 566 linear feet of Corrugated Metal Pipe, 35 linear feet of Steel Pipe, 1,753 linear feet of Beam Guard Rail, 80 Guide Posts and other items.

4. Constructing Two Reinforced Concrete Flat Slab Bridges on 0.065 mile of Primary State Highway No. 1 in Whatcom County, C.M. ST. P. AND P. R.R. AND SQUALICUM CREEK BRIDGE, FAP NO. I-001-5(21), involving about 3,100 cubic yards of Concrete, 1,135 linear feet of Standard Bridge Railing, 521,000 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.
5. Constructing a Reinforced Concrete Box Girder Bridge and a Reinforced Concrete Rigid Frame Bridge on 0.016 mile of Primary State Highway No. 1 in Pierce County, SOUTH 96TH STREET OVERCROSSING AND SOUTH 84TH STREET UNDERCROSSING, FAP No. I-001-3(30), involving about 66,500 cubic yards of Common Excavation and Borrow, 2,260 tons of Selected Roadway Borrow, 1,125 tons of Crushed Stone Surfacing, 760 tons of Asphaltic Concrete, 66 linear feet of Concrete Pipe, a lump sum bid for Superstructures (about 1,538 cubic yards of Concrete and 387,000 pounds of Steel Reinforcing Bars), 1,300 cubic yards of Concrete, 256,000 pounds of Steel Reinforcing Bars, 430 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. Constructing Two Precast, Prestressed Concrete Undercrossings on Primary State Highway No. 1 in Lewis County, 13TH STREET AND NATIONAL AVENUE UNDERCROSSING, FAP No. I-001-2 (54), involving about 1,920 cubic yards of Common Excavation and Borrow, 860 tons of Crushed Stone Surfacing and Ballast, 869 cubic yards of Concrete, 2,100 linear feet of Prestressed Concrete Girders, 714 linear feet of Standard Bridge Railing, 151,000 pounds of Steel Reinforcing Bars, 18,000 pounds of Structural Steel, 10,100 linear feet of Concrete Piling and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
7. Clearing, Draining, Grading and Surfacing with Crushed Stone on 2.719 miles of a Chelan County Road, ENTIAT RIVER ROAD, FAS No. S-0440(3), involving about 94,200 cubic yards of Common Excavation, 19,070 cubic yards of Solid Rock Excavation, 33,895 tons of Ballast and Crushed Stone Surfacing, 22 cubic yards of Concrete, 1,200 pounds of Steel Reinforcing Bars, 608 linear feet of Structural Steel, 1,602 linear feet of Concrete Pipe, 720 linear feet of Corrugated Metal Pipe, 2,460 linear feet of Steel and Iron Pipe, 2,179 linear feet of Wire Fence, 1,964 linear feet of Deer Fence and other items.
8. Clearing, Draining and Grading on 0.932 mile of Clallam County Road, UPPER ELWHA RIVER ROAD, FAS No. S-1247 (1), involving about 2,430 cubic yards of Common Excavation, 26,480 cubic yards of Solid Rock Excavation, 1,000 cubic yards of Loose Riprap, 240 linear feet of Concrete Pipe and other items.
9. Draining, Grading Surfacing, Paving with Bituminous Mix and Constructing Reinforced Concrete Cribbing on 0.127 mile of Primary State Highway No. 1 in Skagit County, NORRIS STREET EXTENSION NEAR BURLINGTON, a State Project, involving about 2,350 cubic yards of Common Excavation and Borrow, 660 cubic yards of Selected Roadway Borrow and Crushed Stone Surfacing, 270 tons of Bituminous Mix, 9 cubic yards of Concrete, 1,250 pounds of Steel Reinforcing Bars, 156 linear feet of Concrete Pipe, 116 linear feet of Corrugated Metal Pipe, 7,918 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 450 linear feet of Beam Guard Rail and other items.
10. Surfacing with Crushed Stone and Constructing a Light Bituminous Surface Treatment on 1.030 miles of a State Park Road in Spokane County, MOUNT SPOKANE STATE PARK ROAD, a State Project, involving about 2,770 cubic yards of Selected Roadway Borrow, 1,075 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 17 tons of Asphalt Cement, 184 linear feet of Corrugated Metal Pipe and other items.
11. Clearing, Draining, Grading and Surfacing with Crushed Stone of 27.838 miles of Adams County Roads, BLOCK 46, 47 FEEDER ROADS, ET AL., a State Project, involving about 27.8 miles of grading, 59,410 tons of Crushed Stone Surfacing, 2,828 linear feet of Corrugated Metal Pipe and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5943—9-14, 21

LIFT STATION, SEWAGE TREATMENT LAGOON

BIDS CLOSE 8 P. M., SEPTEMBER 24

Roundup, Montana

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 8:00 P. M., September 24, 1957, and then publicly opened and read by the undersigned at the City Hall, Roundup, Montana, for the construction of a lift station and sewage treatment lagoon.

Principal items are—SCHEDULE 1: 19,000 cubic yards lagoon excavation and embankment; one manhole and one lift station with two 300 G.P.M. pumps, and one 600 G.P.M. pump, one inlet manhole and one outlet structure, 100 lineal feet of 15-inch vitrified clay sewer pipe, 700 lineal feet of 18-inch corrugated metal pipe and appurtenant work, all as set forth in plans and specifications prepared by Wenzel and Company, Consulting Engineers, Great Falls, Montana and on file with the City Clerk, where they may be inspected without charge, and from either of whom they may be obtained upon deposit of $15.00 per set as a guarantee of their safe return. The full amount of the deposit will be returned to each actual bidder submitting a bona fide bid, immediately upon return of said plans and specifications within 10 days after the date of the bid opening.

Each bid must be accompanied by a certified check made payable to the City of Roundup, Montana, in an amount not less than ten percent (10%) of the total bid as bid security.

Each proposal shall be sealed and addressed to the City Clerk, City Hall, Roundup, Montana, and the name of the project, and the current Montana Contractor's License Number held by the bidder shall be plainly written on the outside of the envelope. The Owner reserves the right to waive irregularities and to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening thereof for a period of thirty (30) days.

BY ORDER OF THE CITY COUNCIL,
City of Roundup, Musselshell County, Montana.
CITY OF ROUNDUP, MONTANA.

5937—9-6, 12, 18

GRADING

BIDS CLOSE 10 A.M., OCTOBER 1

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 17, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a.m., on October 1, 1957, for furnishing the material and performing the work for constructing 0.815 mile grading, Oregon Forest Highway Project 3-A2, Oregon Coast Highway, Siuslaw National Forest, Tillamook County, Oregon, involving 23 acres Grubbing; 886,000 cu. yds. Excavation; 1,000,000 sta. yds. Overhaul; 4,300 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, 753 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

5947—9-21

DRILL, CASE WATER WELL

BIDS CLOSE 10 A.M., OCTOBER 3

Portland, Oregon

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, Extension 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T. October 3, 1957 and then publicly opened, for the furnishing of all equipment, materials, supplies, and labor to drill and case a fresh water supply well at the Creston Fish Cultural Station, near Kalispell, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

5948—9-18, 25

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., SEPTEMBER 26

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 26, 1957. 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.

1. **FG 224(5)**—Grade, gravel surfacing, concrete pavement, road-mix oiling, seal coat oiling, drain, and construction of one 75.33' steel structure over the First Avenue North Underpass on 0.195 miles of the Second Avenue North Great Falls-First Avenue North Underpass Road in Cascade County, involving about 15,870 cu. yds. excavation (detour); 0.395 mile processing; 556 sq. yds. processing; 419 sq. yds. concrete; 10,019 tons crushed gravel; 472 M gals. watering; 136 units rolling; 9,910 gals. liquid asphalt; 1,906 gals. emulsified asphalt; 220 lin. ft. reinforced concrete pipe culverts; 342 lin. ft. concrete sewer pipe; all L. sum clearing & grubbing; 8,044 sq. yds. Portland cement concrete pavement; 8 each drop inlets; 230 lin. ft. precast concrete curb; 1,202 square yds. concrete sidewalk; all L. sum excavation (Roadway); 39.279 MBM treated timber; 300.0 lin. ft. steel guard rail; 227,071.0 lbs. reinforcing steel; 3,774.0 cu. yds. concrete; all L. sum structure excavation; all L. sum removal of existing structure; all L. sum structural steel; all L. sum ornamental railing; all lump sum pipe railing; all L. sum waterproofing; all L. sum drainage system; all L. sum lighting system; all L. sum traffic signal installation; all L. sum galvanized iron; all lump sum obliterate detour road; and other items. Project to be completed by August 31, 1959.

2. **F 240(8) & F 240(9)**—Grade, gravel surfacing, plant-mix oiling, and drain 2.361 miles on the Wolf Point Streets and the West of Wolf Point-North Dakota Line Road in Roosevelt County, involving about 85,672 cu. yds. excavation; 100 cu. yds. gravel backfill; 9,578 tons plant mix; 8,107 mi. yds. overhaul; 77,387 tons crushed gravel; 5,759 cu. yds. sand base; 2,775 M gals. watering; 512 units rolling; 122,578 gals. asphalt cement; 19,777 gals. liquid asphalt; 19,611 gals. emulsified asphalt; 52 lin. ft. corrugated metal pipe culverts; 3,841 lin. ft. reinforced concrete pipe culverts; 771 lin. ft. cast-iron pipe; 276 lin. ft. relay pipe culverts; 6 each manholes with covers; 9 each drop inlets; 10,473.6 lin. ft. concrete median curb; 5,765.1 lin. ft. concrete integral curb and gutter; 461 lin. ft. concrete structures to remove; and other items. Project to be completed in 150 calendar days.

3. **F334(15)U1** — Grade, soil-cement base; plant-mix oiling; and drain 10.980 miles on

the Crow Agency-Broadus Road in Powder River County, involving about 395,188 cu. yds. excavation; 726 cu. yds. gravel backfill; 26,029 tons plant mix; 39,084 mi. yds. overhaul; 1,257 tons crushed gravel; 26,745 cu. yds. soil aggregate; 6,581 M gals. watering; 965 units rolling; 336,825 gals. asphalt cement; 40,554 gals. liquid asphalt; 202 lin. ft. corrugated metal pipe culverts; 656 lin. ft. structural plate pipe culverts; 1,082 lin. ft. reinforced concrete pipe culverts; 2,330 lin. ft. relay pipe culverts; 11,891 bbls. Portland cement; 167,487 sq. yds. processing; all L. sum miscellaneous in place to remove; 117 each concrete right-of-way monuments; 57 each concrete station markers; and other items. Project to be completed in 200 calendar days.

4. **U-UG 405(3)U1**—Construction of 254.0' of irrigation pipe under the Fifth Street, Sixth Street and Madison Street Road in the City of Missoula, Missoula County, involving about 3,298 cu. yds. excavation; 289 cu. yds. unclassified backfill; 190 cu. yds. gravel backfill; 254 lin. ft. structural plate pipe culverts; 4,982 lbs. reinforcing steel; 57.6 cu. yds. Class "AD" concrete; and other items. Project to be completed by April 30, 1958.

5. **S 187(2)U1**—Grade, gravel surfacing, bituminous surface treatment, and drain 14.054 miles on the Armells-Hays-Harlem Road in Blaine County, involving about 654,574 cu. yds. excavation; 484 cu. yds. gravel backfill; 49,313 mi. yds. overhaul; 252,419 tons crushed gravel; 14,823 M gals. watering; 2,542 units rolling; 83,791 gals. liquid asphalt; 83,791 gals. emulsified asphalt; 2,192 lin. ft. corrugated metal pipe culverts; 518 lin. ft. structural plate pipe culverts; 1,047 lin. ft. relay pipe culverts; 47 lin. ft. steel pipe; 192 each concrete right-of-way monuments; all L. sum miscellaneous to be moved; and other items. Project to be completed in 350 calendar days.

6. **S 187(2)U2**—Construction of one 100.0' treated timber bridge over Little Peoples Creek, and one 100.0' treated timber bridge over Big Peoples creek on the Armells-Hays-Harlem Road in Blaine County, involving about 4,655 cu. yds. unclassified excavation; 98,913 MBM treated timber; 2,972 MBM untreated timber; 2,470 lin. ft. treated timber piles; 3,796 lbs. structural steel; and all L. sum removal of existing structure; and maintaining traffic. Project to be completed by June 30, 1958.

7. **S 191(2)**—Grade, gravel surfacing, and drain 10.161 miles on the Jordan-Haxby Road in Garfield County, involving about 439,125 cu. yds. excavation; 1,431 cu. yds. binder; 479 cu. yds. gravel backfill; 2,862 mi. yds. overhaul on binder; 22,174 mi. yds. overhaul; 58,005 tons crushed gravel; 7,768 M gals. watering; 1,174 units rolling; 2,886 lin. ft. corrugated metal pipe culverts; 326 lin. ft. structural plate pipe culverts; 302 lin. ft. relay pipe culverts; 162 each concrete right-of-way monuments; all L. sum miscellaneous to remove; and other items. Project to be completed in 200 calendar days.

8. **S 204(1)**—Grade, gravel surfacing, bituminous surface treatment, drain and construction of one 19.0' treated timber pile structure on 8.468 miles on the Echo Lake-East and West Road in Flathead County, involving about 369,951 cu. yds. excavation; 425 cu. yds. gravel backfill; 6,929 mi. yds. overhaul; 114,137 tons crushed gravel; 68,720 tons uncrushed gravel; 9,178 M gals. watering; 1,594 units rolling; 46,944 gals. liquid asphalt; 46,944 gals. emulsified asphalt; 270 lin. ft. structural plate pipe culverts; 4,544 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; 51.02 acres clearing; 34.45 acres grubbing; 186 each concrete right-of-way monuments; 10.256 MBM treated timber; 0.342 MBM untreated timber; 800 lin. ft. treated timber piles; all L. sum removal of existing structure and maintaining traffic; and other items. Project to be completed in 200 calendar days.

9. **S 222(1)**—Grade, gravel surfacing, bituminous surface treatment, and drain 5.766 miles on the Gildford-North Road in Hill County, involving about 115,181 cu. yds. excavation; 100 cu. yds. gravel backfill; 21,215 mi. yds. overhaul; 20,790 tons crushed gravel; 56,095 tons uncrushed gravel; 3,331 M gals. watering; 660 units rolling; 36,256 gals. liquid asphalt; 36,256 gals. emulsified asphalt; 1,348 lin. ft. corrugated metal pipe culverts; 100 lin. ft. relay pipe culverts; 98 each concrete right-of-way monuments; and other items. Project to be completed in 150 calendar days.

10. **S 228(2)U1**—Grade, gravel surfacing, bituminous surface treatment, and drain 9.777 miles on the Augusta-Southwest Road in Lewis & Clark County, involving about 302,509 cu. yds. excavation; 118 cu. yds. gravel backfill; 27,967 mi. yds. overhaul; 128,786 tons crushed gravel; 7,059 M gals. watering; 1,263 units rolling; 55,608 gals. liquid asphalt; 55,608 gals. emulsified asphalt; 530 lin .ft. corrugated metal pipe culverts; 2,916 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; 150 each concrete right-of-way monuments; and other items. Project to be completed in 180 calendar days.

11. **S 228(2)U2**—The construction of one 38.0' treated timber pile bridge on the Augusta-Southwest Road in Lewis & Clark County, involving about 44.982 MBM treated timber; 1.739 MBM untreated timber; 980 lin. ft. treated timber piles; 610 cu. yds. unclassified excavation; all L. sum removal of existing structure and maintaining traffic; and other items. Project to be completed by July 31, 1958.

12. **S 317(3)**—Grade, gravel surfacing, and drain 6.871 miles on the Wyoming Line-Moorhead-Broadus Road in Powder River County, involving about 262,175 cu. yds. excavation; 935 cu. yds. binder; 343 cu. yds. gravel backfill; 1,870 Mi. yds. overhaul on binder; 13,033 mi. yds. overhaul; 34,127 tons crushed gravel; 4,576 M gals. watering; 134 units rolling; 2,718 lin. ft. corrugated metal pipe culverts; 288 lin. ft. structural plate pipe culverts; 100 lin. ft. relay pipe culverts; all L. sum miscellaneous to remove; 100 each concrete right-of-way monuments; and other items. Project to be completed in 180 calendar days.

13. **S 340(4)**—Grade, gravel surfacing, drain, and construction of one 57.0' treated timber pile bridge on 6.975 miles of the Cleveland-Chinook Road in Blaine County, involving about 282,030 cu. yds. excavation; 1,013 cu. yds. binder; 280 cu. yds. gravel backfill; 2,026 mi. yds. overhaul on binder; 35,423 mi. yds. overhaul; 44,886 tons crushed gravel; 5,097 M gals. watering; 267 units rolling; 1,874 lin. ft. corrugated metal pipe culverts; 66 lin. ft. structural plate pipe culverts; 216 lin. ft. reinforced concrete pipe culverts; 102 lin. ft. relay pipe culverts; all L. sum miscellaneous to be removed; 119 each concrete right-of-way monuments; 25,295 MBM treated timber; 0.872 MBM untreated timber; 810 lin. ft. treated timber piles; 1,124 lbs. structural steel; 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 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 his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalifications 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 Missoula, Montana.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer
5942—9-14, 21

PUMPING UNITS

BIDS CLOSE OCTOBER 31

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4967) will be received at Denver, Colorado, until October 31, 1957, for furnishing three (3), motor-driven, horizontal, centrifugal-type, 37 cfs, 275 ft. head pumping units; and two (2) motor-driven, horizontal, centrifugal-type, 17.5 cfs, 119 ft. head pumping units 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.
5939—9-21

FLOATING BRIDGE, FERRY CONSTRUCTION

BIDS CLOSE 10 A.M., OCTOBER 15

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 15, 1957, 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.

Prequalifications 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 fifty-two dollars ($52.00) for each copy of such maps, plans and specifications. Two dollars ($2.00) of the above amount is a rental payment for the use of the maps, plans and specifications and is not returnable. The remaining fifty dollars ($50.00) is a deposit on the maps, plans and specifications and will be returned to the planholder providing the maps, plans and specifications are returned to this office not later than ten (10) days from the date of award of the contract. IF PAYMENT IS MADE BY CERTIFIED CHECK, CASHIER'S CHECK OR MONEY ORDER, PLEASE MAKE PAYMENT IN TWO CHECKS, ONE FOR TWO DOLLARS ($2.00) AND ONE FOR FIFTY DOLLARS ($50.00). Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications for the Hood Canal Bridge Unit 1—Floating Structure are on file in the office of the Chief Consulting Engineer for the Washington Toll Bridge Authority, 3201 Fremont, Seattle, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland, the offices of the District Engineers of the Department of Highways and the office of the Director of Highways where they may be inspected.

Informational copies of the plans and specifications for the Widening Four Steel Electric Ferries and the Two Evergreen State Type Vessels are on file in the office of the Washington State Ferries, Coleman Ferry Terminal, Seattle, the office of W. C. Nickum and Sons, 71 Columbia Street, Seattle, and the office of the Director of Highways where they may be inspected.

The improvements for which bids will be received follow:

1. Constructing a Reinforced Concrete Floating Bridge 1.341 miles in Length in Kitsap and Jefferson Counties, HOOD CANAL BRIDGE UNIT 1—FLOATING STRUCTURE, a State Project, involving about 74,597 cubic yards of Concrete, 12,586,000 pounds of Steel Reinforcing Bars, 3,000,280 linear feet of Prestressing Reinforcement, 14,060 linear feet of Reinforced Concrete Bridge Railing, 2,943,120 pounds of Structural Steel, 20,150 square feet of Steel Bridge Decking, 739,200 pounds of Cast Steel, 271,610 pounds of High Strength Bolts and Cast Steel Washers, 2,600 linear feet of Rubber Seals, 5,844 linear feet of Steel Pipe, 1,670 linear feet of Cement Asbestos Pipe, 3,316 linear feet of Aluminum Bridge Railing, 1,136 linear feet of Aluminum Curb, 321 MBM of Treated Timber and Lumber, 227,600 pounds of Machinery, a lump sum bid for Mechanical Equipment, a lump sum bid

for Electrical Equipment, a lump sum bid for Operator, Machinery and Generator Houses, 29,000 square yards of Water Proofing Pontoons, 2,450 linear feet of Steel Piling and other items.

2. Widening the Existing State Ferries M/V Illahee, M/V Klickitat, M/V Nisqually and M/V Quinault for the Washington Toll Bridge Authority, WIDENING FOUR STEEL ELECTRIC FERRIES, a State Project, involving a lump sum bid for the Entire Improvement. The work involved consists principally in sponsoning the hull, widening the auto deck and replacing the existing wood auto deck with a steel deck. Alternate bids are requested on replacing the existing life boats and davits with larger boats and mechanical davits, on raising the entire superstructure for increased vertical clearance on the auto deck and on replacing the existthe canvas deck covering on the exterior passenger decks.
3. Constructing Two Ferries 310 feet long for the Washington Toll Bridge Authority, TWO EVERGREEN STATE TYPE VESSELS, a State Project, involving a lump sum bid for the Entire Work. The work involved consists of building two ferry vessels of the Evergreen State Class utilizing owner furnished propulsion, generator sets, propulsion motor and engine room auxiliaries.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5944—9-14, 21, 28; 10-5

STREET PAVING

BIDS CLOSE 1 P.M., M.S.T., SEPTEMBER 30

Bozeman, Montana

NOTICE TO CONTRACTORS

The City of Bozeman, Montana, will receive sealed bids for construction of Street Improvements in Special Improvement Districts, 389, 390, 391, 393, 394, 395 and 398 and for construction of Drainage Improvements in Special Improvement District 392 until 1:00 o'clock P. M., Mountain Standard Time, at the office of the Clerk of the Commission on the 30th day of September, 1957, at which time and place all bids will be publicly opened and read aloud.

The Contract Documents, including plans and specifications, are on file at the office of the Clerk of the Commission at Bozeman, Montana, and at the office of Harold Hoskins & Associates, Engineers, 2314 River Drive, Great Falls, Montana, or at 725 9th Street, Greeley, Colorado.

Copies of the documents may be obtained by paying to Harold Hoskins & Associates $25.00 for one set and $10.00 for each additional set. One-half of said charges will be refunded for all complete sets returned in undamaged condition. The successful bidder will be furnished, free of charge, with all copies of the documents necessary for contract award and construction purposes.

Each bid shall be accompanied by a certified check drawn on a solvent bank in an amount not less than 10% of the total amount of the bid and shall be made payable to the Director of Finance of the City of Bozeman, as security that the bidder to whom the contract may be awarded will enter into a contract to build the improvement in accordance with this notice, and give bond in the sum as hereinafter provided for construction of the improvement. Checks accompanying bids not accepted shall be returned to the bidders.

No bid shall be withdrawn after opening the bids without the consent of the City of Bozeman, Montana, for a period of 30 days after the scheduled time of closing bids.

The City of Bozeman, Montana, reserves the right to reject any or all bids and to waive any informalities in bidding.

The successful bidder will be required to furnish a satisfactory performance bond in the sum of the full amount of the contract.

In general, the improvement on which bids are requested will require the following construction:

Paving Special Improvement District 389—7,050 Sq. Yd. of pavement and 1,376 L.F. of 10" P.C. pipe; Paving Special Improvement District 390—7,700 Sq. Yd. of pavement; Paving Special Improvement District 391—5,850 Sq. Yd. of pavement; Drainage Special Improvement District 392—11,550 L.F. 12"-36" R.C. pipe and appurtenances; Paving Special Improvement District 393—57,600 Sq. Yd. of pavement; Paving Special Improvement District 394—2,050 Sq. Yd. of pavement; Paving Special Improvement District 395—6,000 Sq. Yd. of pavement; Paving Special Improvement District 398—19,800 Sq. Yd. of pavement.

Sealed bids shall be marked on outside, "Bid for Construction of Street Improvements in Special Improvement District 389, 390, 391, 393, 394, 395, and 398" and/or "Bid for Construction of Drainage Improvements in Special Improvement District 392."

Dated this 11th day of September, 1957.

CITY OF BOZEMAN, MONTANA.
By: L. G. Shadoan,
Clerk of the Commission.

5945—9-14, 18

HEALTH CENTER

BIDS CLOSE 10 A.M., P.S.T., OCTOBER 2

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-270, Health Center, Kenai, Alaska. September 4, 1957. Kenai Health Center, Project Aaa. 50-A-270, Kenai, 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, October 2, 1957, 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-270, Health Center, Kenai, Alaska. The construction of a one story frame Health Center building with approximately 113 sq. ft. of floor area.

5941—9-14, 21

COLLEGE ADDITIONS

BIDS CLOSE 8 P.M., P.S.T., SEPTEMBER 25

Pasco, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of the Pasco School District #1, at the offices of the School District, 517 North 3rd St., Pasco, Washington, on or before 8:00 P.M., P.S.T., Wednesday, Sept. 25, '57 for the construction of Vocational-Technical, PE-Music; Classroom Center, and Boiler Plant Additions for Columbia Basin College of steel and block 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 offices of the Architect, Victor Louis Wulff, 1526 West Riverside Avenue, Spokane, Washington, and 507 North 4th, Pasco, 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 for the convenience of sub-contractors, etc.: Plan Survey Center, Inc., 15 S.E. 22nd Ave., Portland 15, Oregon. Tri-City Construction Council, 34 Vista Way, Kennewick, Wash. Construction Council, 933 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, Washington, Basin Construction Council, 515 W. Broadway, Moses Lake, Wash., Yakima Valley Master Builders, 702 W. Walnut St., Yakima, Wash., AGC Builders' Chapter, 452 St. Helen's 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 Pasco School District #1.

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 Pasco School District #1.
Noble Moodhe,
Secretary of the School Board
517 North 3rd
Pasco, Washington

5936—9-7, 10, 11

POWERPLANT, SWITCHYARD

BIDS CLOSE OCTOBER 8

Yakima, Washington

NOTICE TO CONTRACTORS

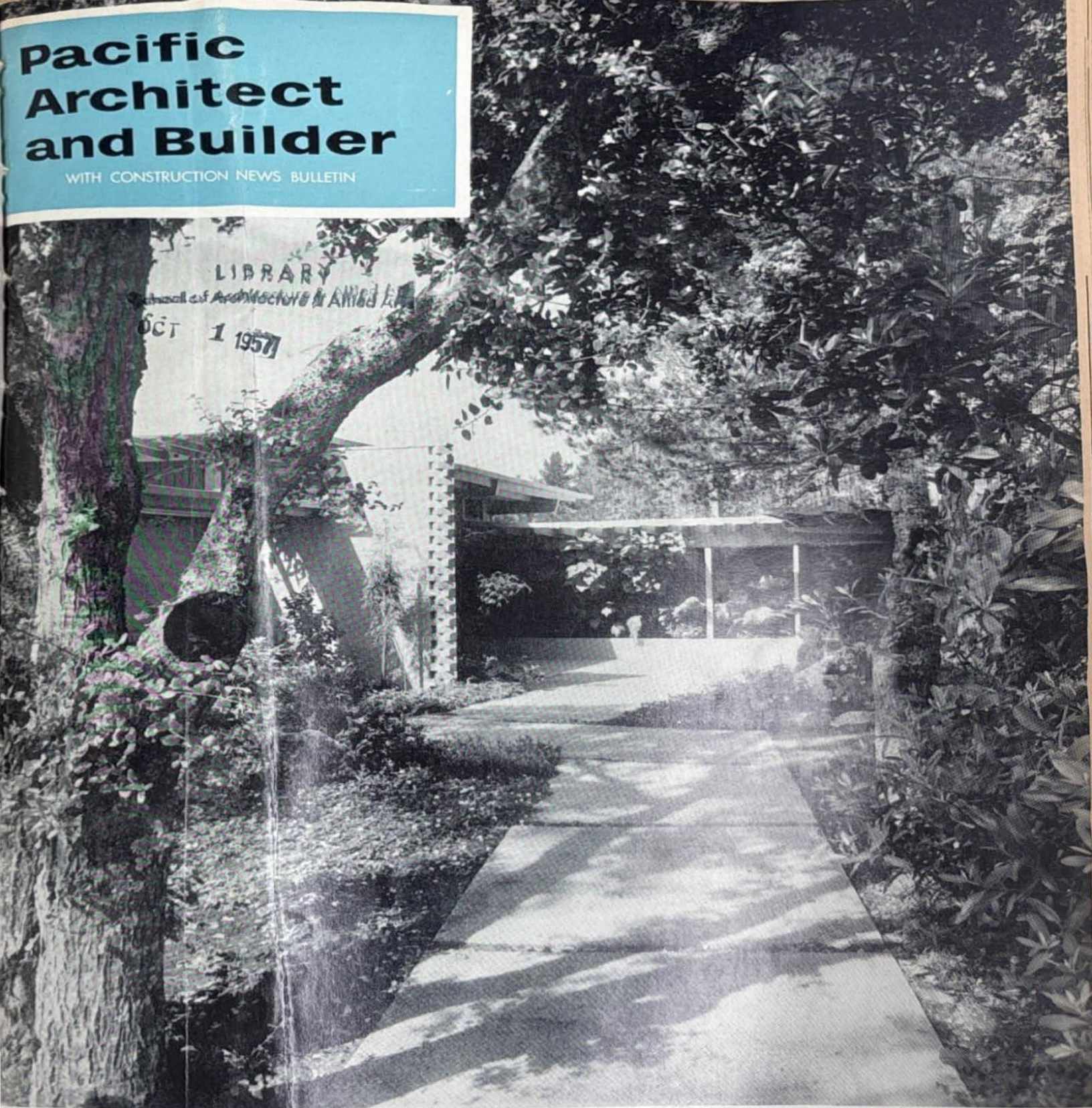
DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4961) will be received at Kennewick, Washington, until October 8, 1957, for furnishing labor and materials for completion of Roza Powerplant and Switchyard, Yakima Project, Washington. Location near Yakima, Washington. Principal items are lump sum installing nonembedded turbine parts and testing one 18,000-hp hydraulic turbine; furnishing and installing heating and ventilating system in powerplant; 6,700 pounds furnishing and installing steel pipe, valves, and fittings; and other work. Completion time 200 days. For particular, address Bureau of Reclamation, P. O. Box 516, Kennewick, Washington; P. O. Box 937, Boise, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5927—9-7

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

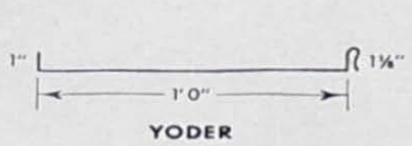
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THE BUILDING AND THE SITE
—house, power utility service center, motel

A public rel[illegible] talks about publicity

SEPTEMBER 1957



YODER

In addition to press brake fabrication described below, Fentron Industries often use the Yoder (continuous) method in which roof sections are made to any length and standing seams are crimped together for greater strength.



PRESS BRAKE



Steel roof decking...durable, strong and economical

Fentron Industries of Seattle, Washington, has found USS Steel Sheets ideal for low-cost and reliable roof deck construction. The service station canopy roof above, formed and installed by Fentron, is fabricated from 18-gauge USS Sheets by the press brake method and plug-welded every 18 inches. Sections are one-foot wide in nine-foot spans with two-and-one-half inch standing seams that interlock on installation; leak-proof against wind and water. This roof decking has withstood test loads of 55 lbs. per sq. foot, without distress . . . good overhead insurance under the snow loads in Washington winters.

Steel roof decking is durable, strong and costs less to install. Other materials require more weight, additional construction time and greater cost to equal the strength and carrying capacity of steel.

Whether you build service stations, industrial plants or homes, we'll be happy to direct you to steel decking fabricators who will provide you with additional information and specifications.

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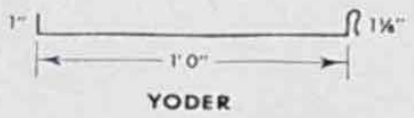
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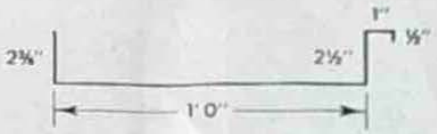
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Dr. Donald Hutton Residence, Menlo Park, Calif. (p. 8). Goodwin B. Steinberg, Architect; Phil Palmer photo.

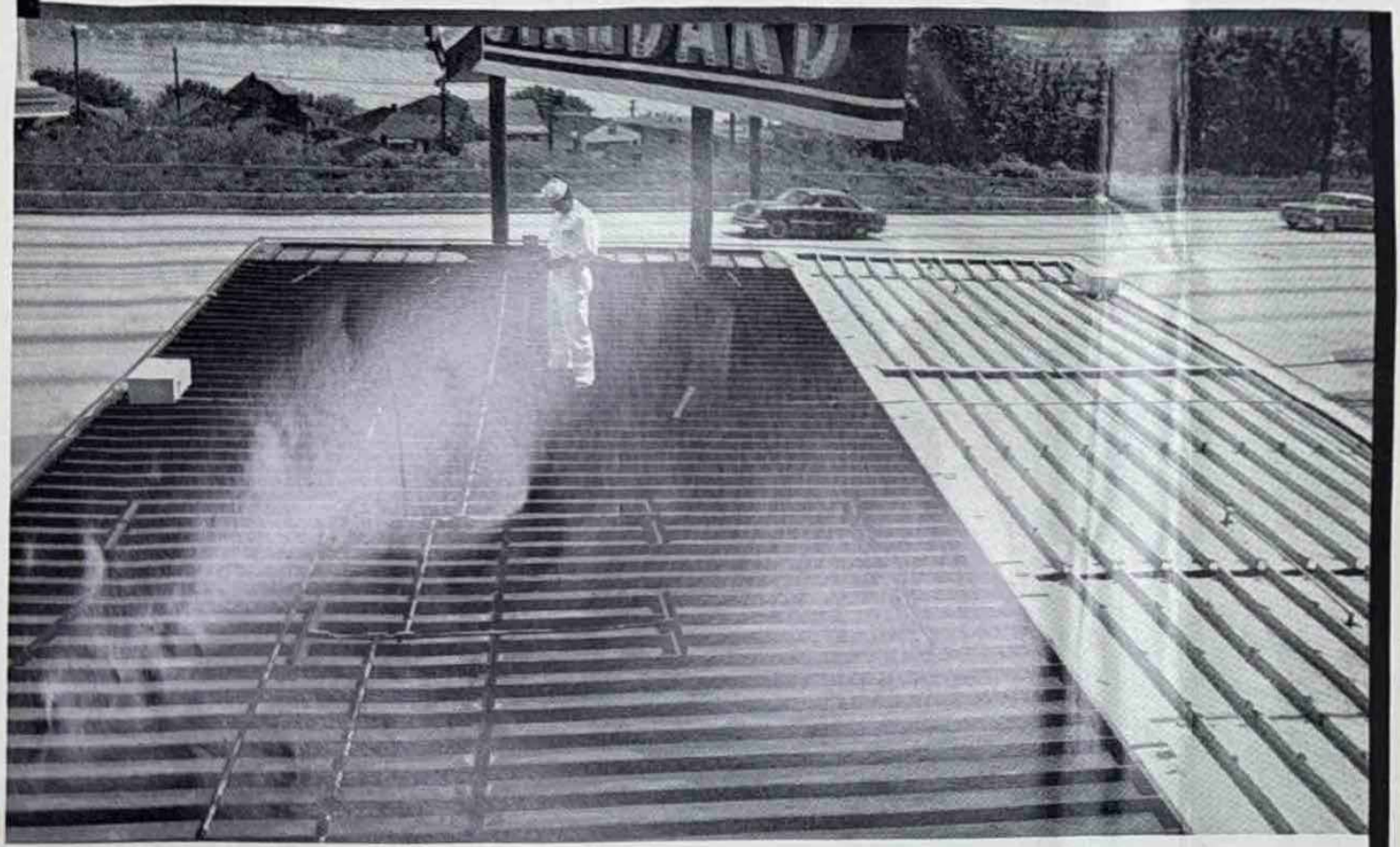


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Pacific Architect and Builder

VOLUME 63, NUMBER 9 SEPTEMBER 1957

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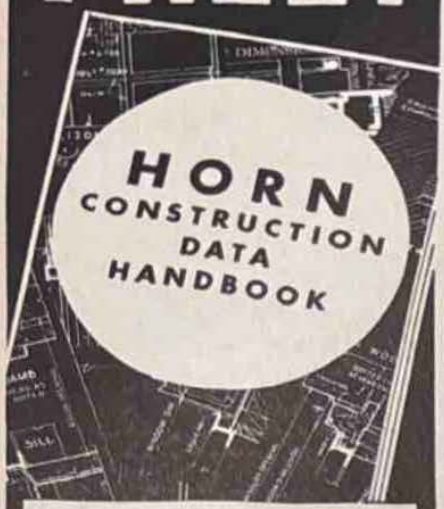
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Dr. Donald Hutton Residence, Menlo Park, Calif. (p. 8). Goodwin B. Steinberg, Architect; Phil Palmer photo.

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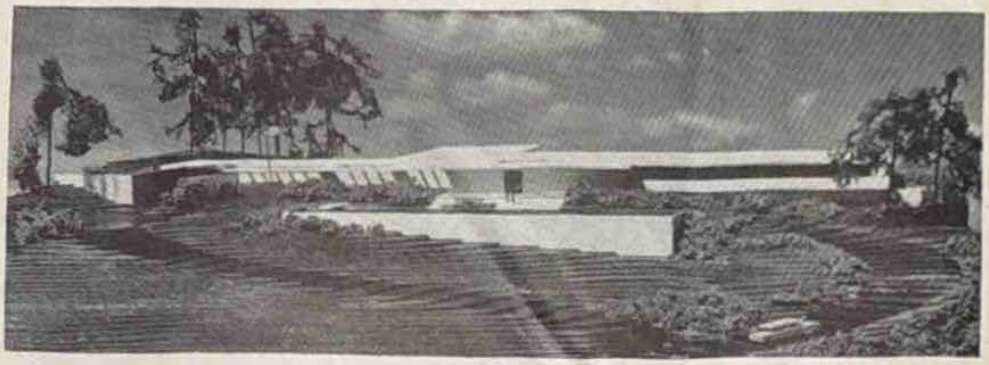
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West Coast architects design abroad



RESIDENCE FOR U. S. AMBASSADOR TO CHILE: Paul Thiry, architect.

In Santiago, Chile

Instead of drawing upon the European heritage of the Chileno in designing a residence for the U. S. ambassador to Chile, architect Paul Thiry of Seattle has looked for his inspiration to the culture of the ancient Andean civilizations. The structure will be a contemporary expression of their indigenous architecture of walls and terraced hillsides.

To be located in suburban Santiago adjoining the city's fashionable golf club, the residence will be sited atop a ridge within a valley bordered on the north and northeast by the towering Andes.

The state reception and dining rooms, the ambassador's private apartments and the servants' quarters are dispersed around a large patio with fountain. Because of the one-story plan, the ambassador and his family have access to the patio and gardens instead of being isolated on upper floors as has been customary in buildings of this type. Although the building maintains a residential scale, it can, by implementation of formal rooms, patio and gardens, easily accommodate large groups of people.

Structurally, the building will be of earthquake-resistant monolithic concrete and can be opened by means of glass sliding doors and screens.



U. S. EMBASSY BUILDING IN PAKISTAN: Richard J. Neutra and Robert E. Alexander, architects.

In Karachi, Pakistan

Construction has started this summer in Karachi on one of the largest U. S. embassy office buildings in the world and the only one in which the host country will assume a share of the cost. Designed by Los Angeles architects Richard J. Neutra and Robert E. Alexander, Pakistan will pay half the cost of the project, estimated to cost $1.3 million.

A reflecting pool will dramatize the entrance to the 62,000-sq. ft. reinforced concrete structure which will be built in the heart of the city facing the Frere Gardens, the only green spot in the desert capital. It will have a reinforced concrete reservoir located below the basement, a 10,000-gal. tank and other mechanical equipment in a penthouse and an adjoining 16,000-sq. ft. concrete warehouse.

Besides normal embassy functions, plans call for office space to house the U. S. Information Service, with film distribution center and printing plant, the Foreign Operations Program and the Military Assistance Program, as well as other functions.

Briefly noted . . .

• Architect Minoru Yamasaki of Detroit and landscape architect Lawrence Halprin of San Francisco have been selected as out-of-state consultants for Seattle's proposed Civic Center and World's Fair. Yamasaki is a graduate of the University of Washington.

• "Designing the Next 100 years" will be the theme of the annual convention of the American Society of Industrial Designers to be held October 17-20 at the Ojai Valley Inn, Ojai, Calif. Among the speakers will be architect Charles Luckman of Los Angeles.

• Demolition work is underway on the 20-acre site on which Portland will erect its $8 million Exposition-Recreation Center.

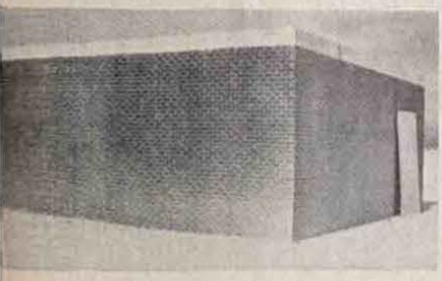
• Beverly Hills, Calif., plans to build a museum with the profits from a movie, but just what kind of film it might be has not been disclosed.

• A newly appointed Building Research Advisory Board Committee formed to advise the FHA on its technical studies program has one West Coast member, Charles D. Clark, land planning consultant of Los Angeles.

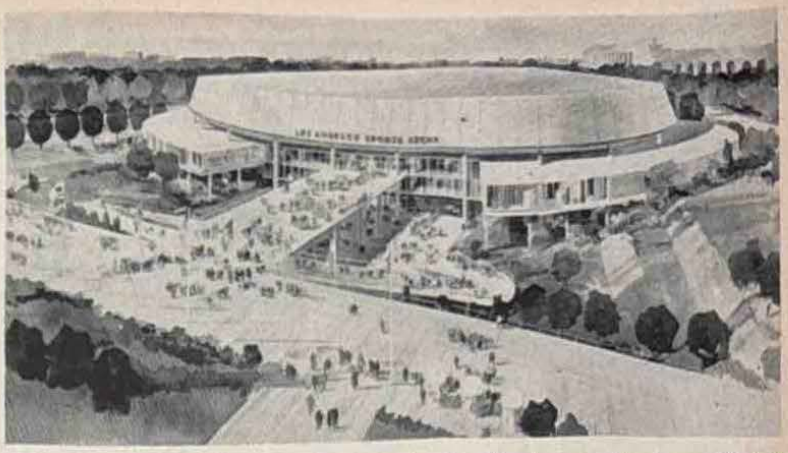
Windowless brick school survives atomic blast

A full-size reinforced brick school structure successfully withstood the effect of an atomic blast during the recent Plumbob nuclear test series in Nevada, the Federal Civil Defense Administration has reported.

Designed by the Structural Clay Products Research Foundation, the 32x28 ft. windowless building was constructed with 10-in. reinforced brick walls and a reinforced concrete roof. This classroom planned for 30 students would have afforded a high degree of protection to its occupants in 75% of the blast area.



WINDOWLESS CLASSROOM UNIT withstands effect of atomic blast in recent test.



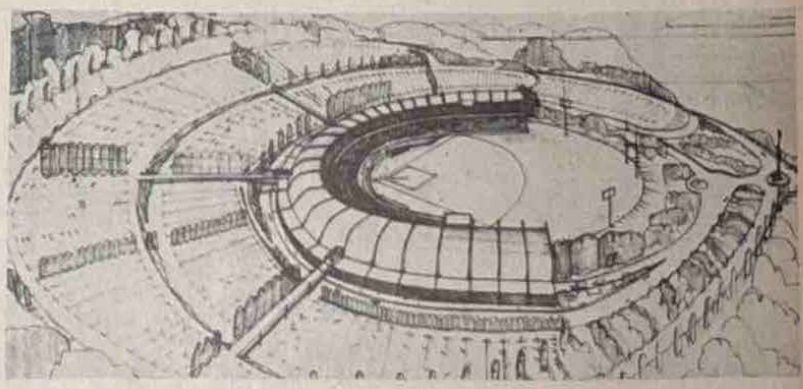
SPORTS ARENA IN LOS ANGELES for which more than $5 million in revenue bonds were floated.

Mammoth indoor arena planned for Los Angeles

Prelminary plans for one of the largest indoor sports arenas in the country have been presented to the Los Angeles Memorial Coliseum Commission by the architectural firm of Welton Becket & Associates.

The project provides seating for 16,000 persons at ice hockey games or 18,432 for basketball and 19,320 for boxing, by use of temporary seating on a lower level. The elliptically shaped arena could seat a maximum of 30,000 for conventions when the entire lower level is filled with seats. The entire structure will be of fireproof reinforced concrete and structural steel, free of any columns within the seating area.

A controversy centering around the project reached a high point last March when the commission discharged Stiles O. and Robert Clements because of high bids on their plans. The architects now have a $374,000 lawsuit against the commission and the latter has countercharged with a suit for about the same amount.



FROM POLO GROUNDS TO BAYVIEW PARK: Giants will get new home when they come to San Francisco next season. Precast concrete sections are now being designed.

Big league baseball means new stadium for Bay

Proposed stadium for big league baseball in San Francisco, with the transfer of the New York Giants set for next spring, will have seating for 40,000 fans and parking for 10,000 cars. The overall scheme has been developed by architect John S. Bolles, consulting engineer E. Elmore Hutchison and contractor Charles Harney.

The project will cost about $12 million, $5 million of which will be furnished by the city and the balance by Harney and associates. It will be located on the northeasterly slope of Candlestick Point, with access from Bayshore Freeway, Third Street and adjacent and contiguous streets to be widened by the city to serve both the stadium and the area in the Bay to be reclaimed by the Hunters Point Reclamation District.

Upon signing of the contract, about two million cubic yards of earth will be taken from the hill within 60 days in what will be the largest earth-moving job in the history of the Bay area. Part of the earth will be used for the parking area and the balance as fill in the Bay to provide 100 acres of the 500 to be developed.

August volume lags behind same month last year

Building volume in the five western states dropped to $199,615,437 in August. The total, as reported by 116 building permit agencies, is $47 million below the same period last year.

On a statewide basis California dropped $38 million; Washington, $6¾ million; Oregon, $1½ million; and Montana, $1 million. Idaho showed a slight increase over August 1956.

Compared to the previous month, the August volume was down $13¼ million. Idaho and Washington reported increases over July, while the other three states reported decreases.

Here is the box score for the year so far:

	Jan.-Aug. 1957	Jan.-Aug. 1956
California	$1,341,449,807	$1,474,164,000
Oregon	83,777,027	100,504,217
Washington	189,548,174	223,556,066
Montana	16,853,824	20,814,764
Idaho	16,084,520	16,887,906

As the tabulation shows, all states are running behind the cumulative totals for last year. The dollar volume for the first eight months is $1,647,713,352, down $188,213,601 from the total at the same time in 1956.

Following is the breakdown of building permits issued for new buildings and additions by several of the major agencies during August. (First number in each category refers to number of permits, not number of units.)

ANALYSIS OF TYPICAL AREAS—AUGUST

	DWELLING	COMMERCIAL & INDUSTRIAL	PUBLIC
Portland	58 ($ 987,450)	20 ($ 850,300)	5 ($ 286,985)
King Co.	524 (5,246,530)	51 (336,945)	8 (617,400)
Seattle	602 (3,957,632)	167 (4,107,082)	1 (4,000)
Tacoma	84 (258,480)	45 (435,230)	3 (2,685,000)
Los Angeles Co.	1915 (13,701,260)	389 (4,619,400)	29 (795,250)
Orange Co.	334 (3,756,899)	44 (589,595)	2 (55,000)
Sacramento Co	246 (3,465,239)	79 (594,943)	11 (4,139,977)

Building Permit Totals for 116 Western Agencies for August 1957

CALIFORNIA	August 1957	July 1957	August 1956
Alameda County	$ 1,490,800	$ 1,792,200	$ 2,772,900
Anaheim	1,279,555	1,167,523	4,047,762
Bakersfield	2,213,855	571,820	1,567,838
Burbank	1,348,516	829,394	1,438,665
Contra Costa County	2,507,908	2,450,653	2,725,636
Fresno	1,025,804	6,209,446	2,009,107
Fullerton	1,506,476	1,449,180	1,186,035
Glendale	2,149,749	1,030,755	1,047,191
Inglewood	527,695	753,074	1,156,448
Long Beach	3,776,580	3,420,295	3,227,425
Los Angeles	43,842,730	42,148,490	49,422,515
Los Angeles County	20,052,767	20,779,129	37,648,177
Oakland	4,345,719	4,233,857	3,748,369
Ontario	1,707,454	581,306	1,582,283
Orange County	4,616,581	5,624,514	11,333,746
Palo Alto	2,664,884	2,280,437	3,086,078
Pasadena	1,026,772	1,567,083	1,852,479
Pomona	3,063,230	2,761,165	1,327,318
Richmond	809,834	418,100	2,428,434
Riverside	1,323,470	646,352	1,536,557
Sacramento	2,405,909	1,848,315	2,768,367
Sacramento County	8,424,874	6,479,712	7,660,009
San Bernardino	2,124,346	1,058,321	1,958,913
San Bernardino County	4,411,589	21,986,737	9,440,459
San Diego	12,006,038	7,443,067	6,662,540
San Diego County	4,387,000	4,992,400	3,965,900
San Francisco	4,904,923	8,838,234	3,846,308
San Jose	5,667,910	5,391,345	3,883,778
San Mateo	541,751	922,080	1,085,919
San Mateo County	3,463,918	1,752,912	2,372,088
Santa Ana	1,233,238	1,458,834	4,172,150
Santa Monica	1,489,188	897,300	906,741
Stockton	750,151	1,952,428	755,360
Sunnyvale	1,250,150	1,675,125	2,890,098
Torrance	1,487,701	1,819,471	4,276,291
West Covina	992,662	722,297	3,108,460
TOTAL	$156,821,727	$169,953,351	$194,898,344

OREGON	August 1957	July 1957	August 1956
Albany	$ 121,750	$ 80,475	$ 107,672
Astoria	28,957	58,518	104,709
Baker	145,935	67,080	29,682
Bend	84,874	482,525	112,030
Coos Bay	183,220	138,850	197,195
Corvallis	348,405	343,385	318,101
Eugene	407,984	480,383	1,621,738
Grants Pass	25,420	108,500	106,175
Gresham	59,100	308,781	31,050
Hillsboro	60,215	167,366	54,775
Klamath Falls	285,172	148,325	409,999
LaGrande	431,615	41,045	48,280
Lane County	1,801,910	930,057	791,990
Medford	202,715	218,279	157,986
Multnomah County	1,719,800	3,373,328	2,165,612
North Bend	233,359	48,359	1,143,022
Oregon City	76,005	16,061	26,263
Pendleton	73,765	139,150	293,590
Portland	4,143,105	4,377,650	3,868,195
Roseburg	56,040	610,331	62,451
Salem	812,126	161,965	870,667
Springfield	59,875	212,430	194,682
The Dalles	26,790	72,800	78,100
TOTAL	$ 11,388,137	$ 12,585,643	$ 12,793,964

WASHINGTON	August 1957	July 1957	August 1956
Aberdeen	$ 61,936	$ 92,601	$ 70,991
Anacortes	360,745	26,000	119,555
Auburn	58,600	266,400	80,075
Bellingham	343,599	1,111,803	337,028
Bremerton	129,815	190,565	130,870
Centralia	54,300	73,796	55,678
Chehalis	80,740	17,124	34,876
Clarkston	61,629	151,425	73,490
Ellensburg	36,035	146,977	129,440
Ephrata	14,295	28,670	61,925
Everett	133,993	315,840	1,162,853
Kelso	29,700	32,550	35,500
Kennewick	97,610	55,360	123,285
King County	6,248,625	6,305,640	6,781,965
Kirkland	63,664	113,720	79,800
Longview	169,604	427,826	268,390
Moses Lake	198,980	88,749	162,008
Olympia	481,987	122,950	122,067
Pasco	98,706	55,225	93,385
Pierce County	1,235,215	1,327,554	1,662,504
Port Angeles	15,230	37,550	754,352
Puyallup	145,275	89,550	147,975
Ritzville	2,500	4,200	33,550
Seattle	8,120,138	8,571,045	14,009,085
Shelton	6,400	197,200	19,600
Spokane	2,015,479	2,063,637	2,398,360
Spokane County	2,264,568	1,175,743	2,305,659
Sumner	61,200	39,050	13,900
Tacoma	3,662,920	1,431,742	1,854,753
Vancouver	410,347	452,972	692,135
Walla Walla	51,094	94,137	116,230
Wenatchee	142,744	413,211	300,470
Yakima	876,401	520,307	301,586
TOTAL	$ 27,734,074	$ 26,041,119	$ 34,533,340

MONTANA	August 1957	July 1957	August 1956
Billings	$ 191,200	$ 186,700	$ 276,400
Bozeman	40,900	38,900	69,000
Butte	166,504	101,542	75,079
Glasgow	69,900	404,465	16,825
Glendive	74,734	167,700	37,800
Great Falls	296,297	606,231	483,884
Helena	252,225	325,474	977,127
Kalispell	81,500	93,700	128,850
Lewistown	9,300	74,145	23,900
Livingston	45,827	46,775	35,338
Miles City	43,875	23,460	52,136
Missoula	80,050	50,700	129,600
TOTAL	$ 1,352,312	$ 2,119,792	$ 2,305,939

IDAHO	August 1957	July 1957	August 1956
Boise	$ 332,350	$ 466,564	$ 338,396
Caldwell	29,750	35,610	221,925
Coeur d'Alene	117,760	68,350	111,300
Idaho Falls	732,630	475,275	695,840
Jerome	23,100	9,885	18,300
Lewiston	145,745	107,837	111,830
Nampa	49,382	152,590	108,650
Payette	1,710	2,975	56,650
Pocatello	707,625	676,968	208,434
Sandpoint	7,200	41,050	13,300
St. Maries	6,000	1,000	14,000
Twin Falls	165,935	231,950	231,050
TOTAL	$ 2,319,187	$ 2,270,054	$ 2,129,675
GRAND TOTAL	$199,615,437	$212,969,959	$246,661,262



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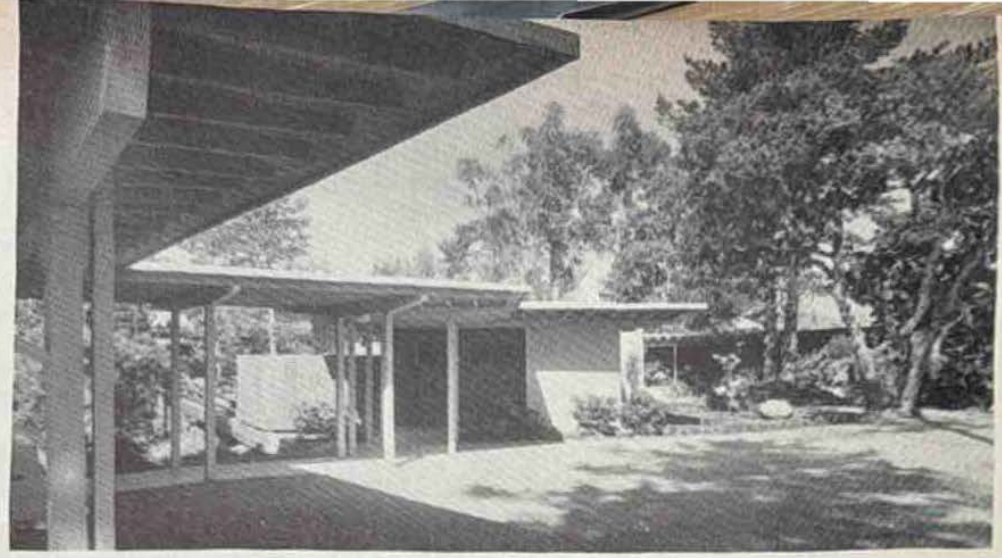
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ARCHITECT'S OBJECTIVE: to design house delicate in character by breaking and playing with surfaces so that structure blends and enhances foliage of site. Top photo shows relationship between carport (extreme left), covered passageway and house. Entrance court is rich tapestry work of landscape architect and nature.

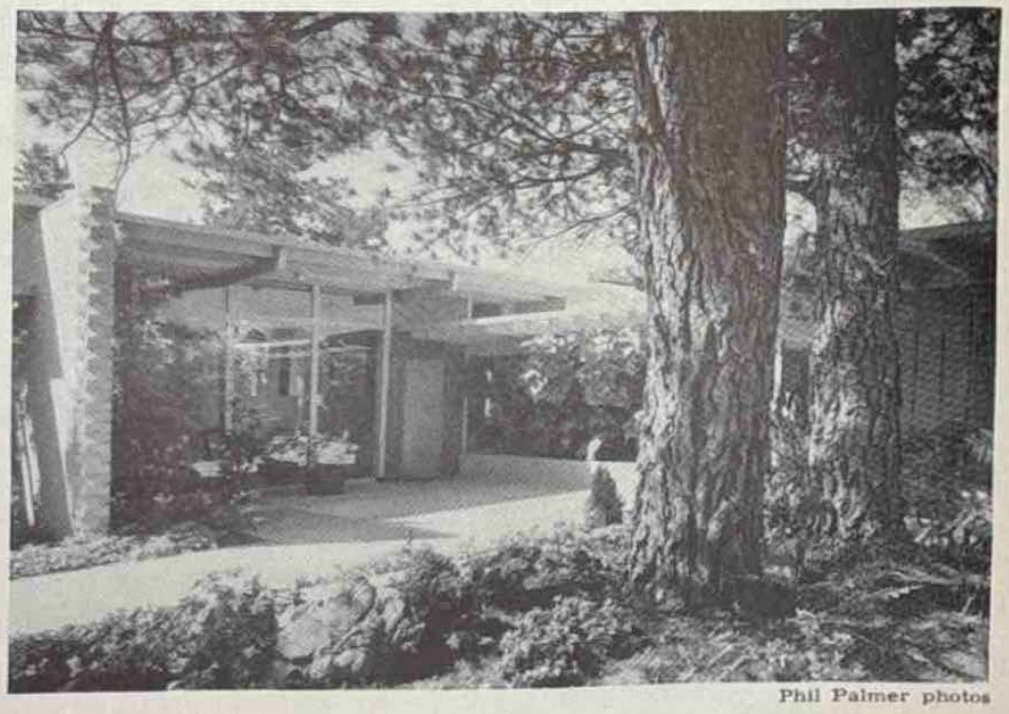


Dr. Donald Hutton Residence
Menlo Park, California

GOODWIN B. STEINBERG, AIA
Architect

GERALDINE KNIGHT SCOTT
Landscape Architect

WILLIAM ANDERSON
Contractor



Phil Palmer photos

An intelligent use of the site

House that treads its way through the forest

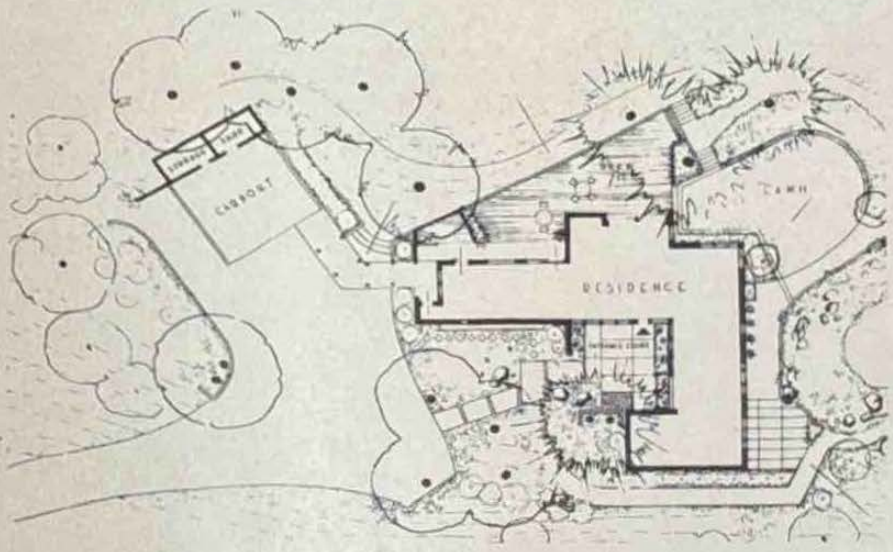
THE 2½-ACRE SITE had only a small level portion of land and just room enough for a house, carport and parking area. Although it was heavily wooded, the loss of any major tree would affect the beauty of the lot at the house location and the privacy required by the clients, both professionals without children—she, a ballet teacher; he, a dentist and a performer with chamber music groups.

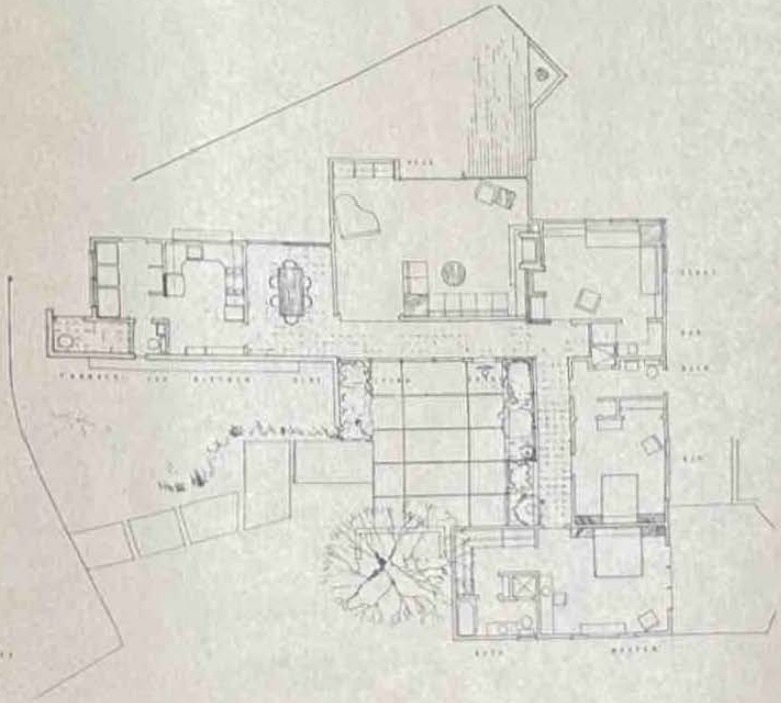
The entire property has a view of the valley, but the most desirable is to the south and southwest where pine-covered mountains present a panoramic backdrop. This necessitated sheltered outdoor living to combat prevailing summer breezes off the bay from the north-northeast and protection of glass areas from the sun.

Since the site in large measure dictated the design of the house, the architect and landscape architect shared in the planning from the outset. The latter's problem was threefold: 1) to assist the architect and clients in locating the house and carport on the very narrow, wooded saddle; 2) to save all good trees and natural undergrowth on the slopes below in meeting the stated requirements; 3) to plan an appealing approach in spite of the large space needed for visitor car parking and turning.

The solution: By locating the house on the edge of the hill and extending a deck parallel with the contours, it was possible to utilize a group of pines

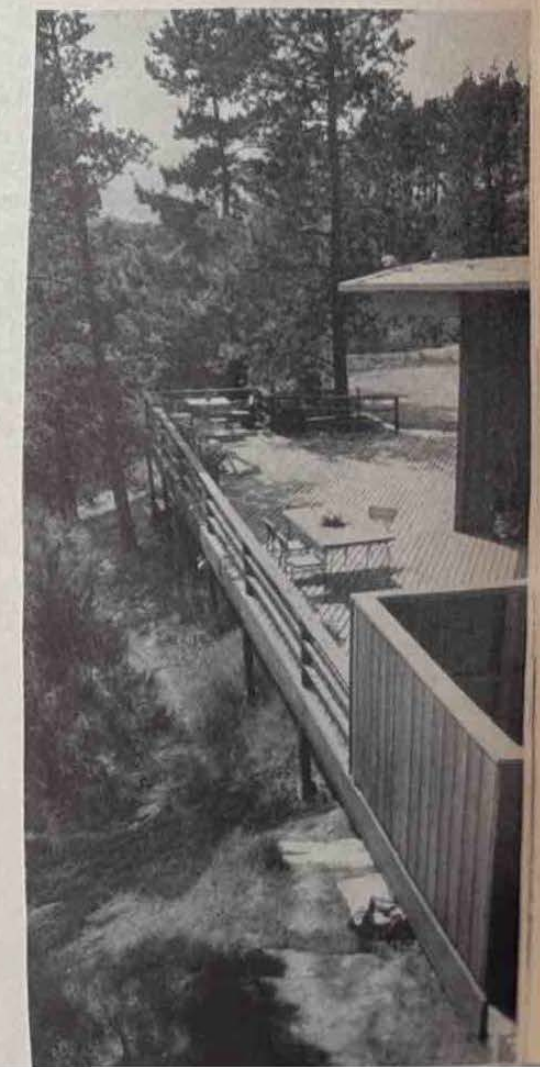
southwest of the house for shade in the late afternoon and to reserve an area for a small, cooling lawn at the west corner. Through careful staking of the site, a roofed connection between house and carport was laid out that would not obstruct the view across the saddle. One end of the deck, near the kitchen, was planned to function both as a service area and as a visual barrier between the parking area and that part of the deck used for lounging. The entrance garden was designed to attract visitors to the main doorway of the house where two pines extend a welcome.





DECK EXTENDS from living room (top photo, left) across front of house. Screened area in foreground (bottom photo) blocks view from parking area and carport to deck and serves as storage. Material is redwood paneling.





HUTTON RESIDENCE



HOUSE BLENDING INTO LANDSCAPE provides quiet mood of privacy. Planting beds line hallway leading to bedrooms; study is seen in background. Both dining and living rooms have mahogany paneling. Simple, direct circulation carries from one end of house to other.





OUTLINE SPECIFICATIONS

Structure: 1-story frame on concrete slab.

Exterior Walls: 8x4x16-in. masonry block (Basalt), 1x8 redwood siding with clear flat rawhide paint.

Windows: Custom-made stopped in wood.

Doors: Mahogany solid core, exterior; mahogany hollow core, interior.

Floors: Quarry tile (Mosaic), ceramic tile (Gladding McBean), vinyl tile (Robbins), carpeting on concrete slab.

Interior Finish: 1x8 mahogany paneling, painted (Morwear) plaster.

Ceilings: Plaster, acoustical plaster (California Stucco).

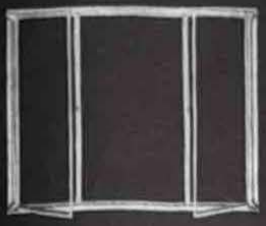
Heating: Radiant system (Arro).

Total Area: 2,200 sq. ft.

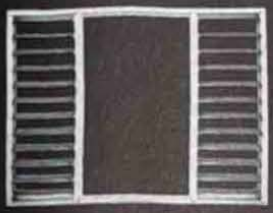
Total Cost: $35,000.

Date of Completion: June 1954.

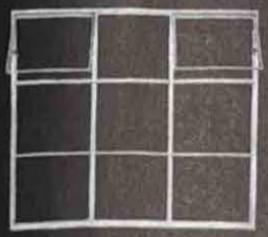
FOUR POPULAR STYLES



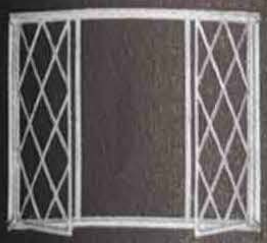
Bourne Aluminum Casements in a wide range of stock sizes.



Bourne Aluminum Jalousies for windows breezeways, porches.



Bourne Town & Country Windows for modern ranch house styling.

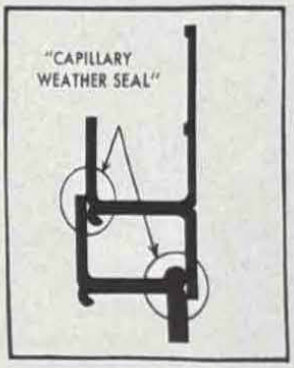


Bourne Diamond Patterns bring Old-World charm for modern homes.

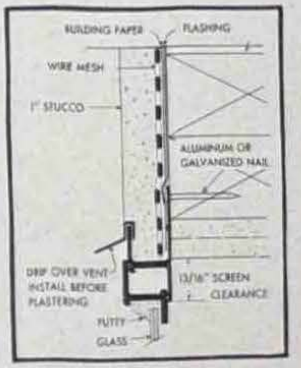
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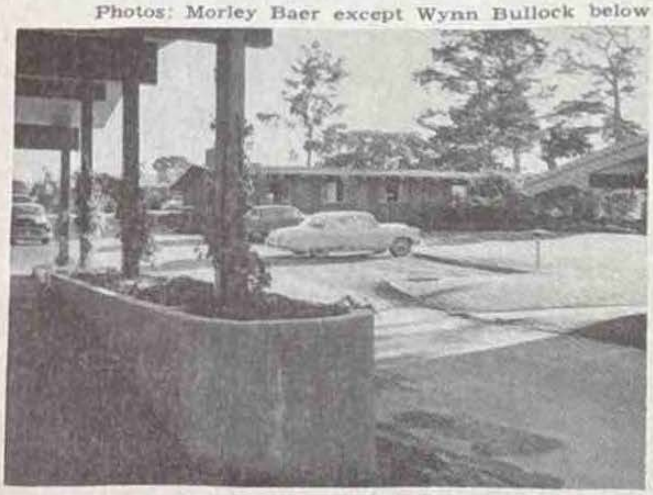
Bourne **TO BE BEST!**

BOURNE PRODUCTS, INC., DEPT. PA, EL CAJON, CALIFORNIA



TASTEFUL SIGN is in keeping with architecture, uses same materials. Parked cars are consolidated in lots.

Photos: Morley Baer except Wynn Bullock below



Mark Thomas Inn, Monterey, California

JOHN CARL WARNECKE, AIA, Architect

JOHN A. BLUME, Structural Engineer

CLYDE BENTLEY, Mechanical Consultant

DARIEL FITZROY, Acoustical Consultant

LAWRENCE HALPRIN, Landscape Architect

HAAS & HAYNIE, INC., General Contractors

An intelligent use of the site

Design seeks to subordinate structures

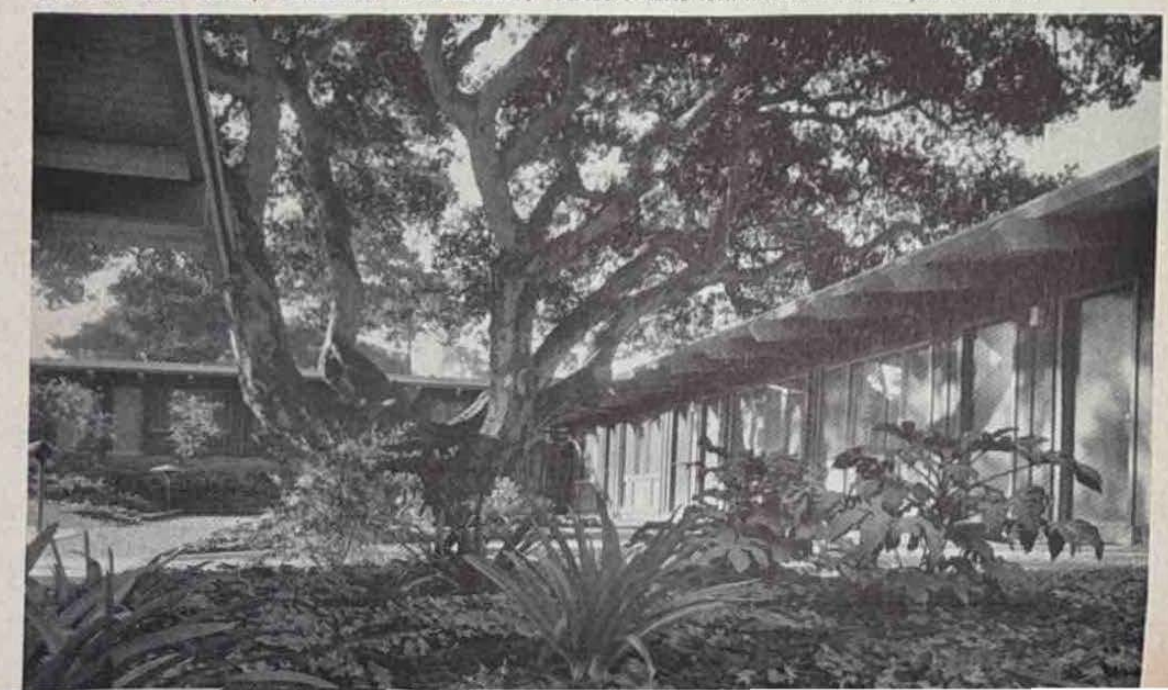
THIS MOTEL PROJECT was designed to be built in three phases, the first of which consisted of 30 bedroom units, an apartment for the manager and four shops.

Six months of successful operation justified the construction of 28 additional and more luxurious hotel units which were arranged to face a swimming pool and terrace. A restaurant and lounge were added around the same central terrace to provide flexible facilities for conventions and other meetings, in addition to resort guests who flock to the Monterey Peninsula for golf, fishing and the coastal scenery.

Future increments will be grouped around an elongated central terrace or possibly a detached courtyard. It is anticipated that the fully developed project will have about 200 accommodation units.

The site was evolved to fit the buildings, roads and parking areas into the open spaces between the oak trees—several at least 100 years old—which are a prominent feature. The architectural organization and style is deliberately casual and subdued to harmonize with the character of the terrain. The wooden structures are quiet; parked cars are not allowed to intrude; the design seeks to subordinate the structures to the great beauty of the land forms and the trees.

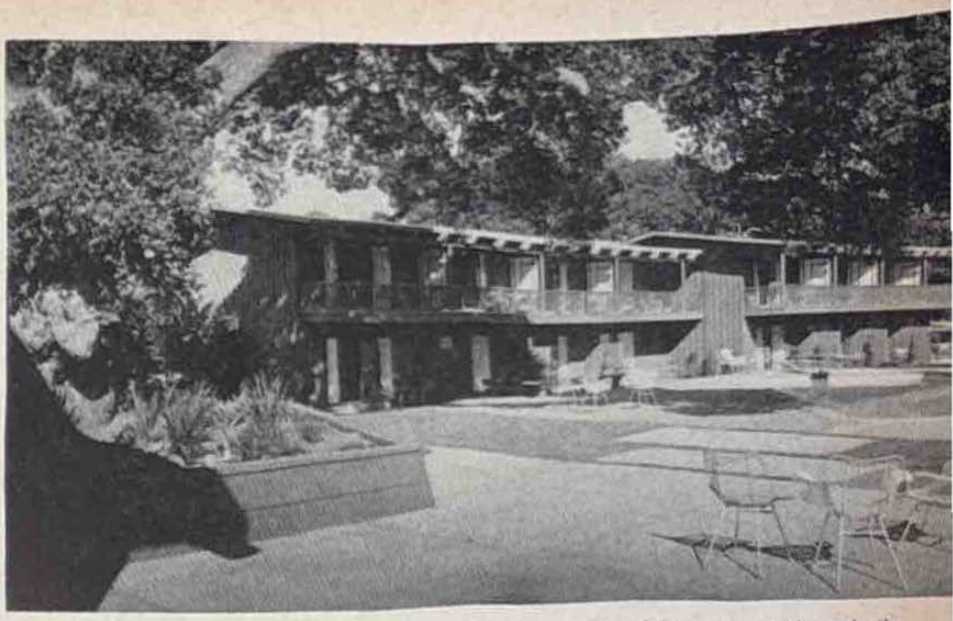
CENTURY-OLD OAKS, PLEASANT OVERHANGS, GLASS AREAS turn motel into countryside retreat.



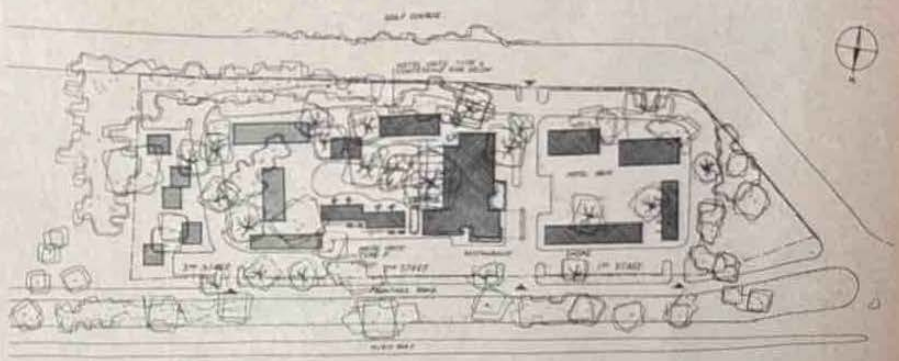
PHASE 1: The original problem was not only to retain the trees, but to design the first stage of a master plan which envisioned possibly 200 units in one- and two-story structures. Furthermore, because income would be limited initially to the rent from only 30 units, the buildings had to be planned for maintenance by a minimum staff. As a result, most of the units are small and cater to the trade of the traveling businessman.

Simple wood construction, costing $14.83 per square foot, employs fir plywood sheathing as a solid base for stained redwood board and batten exterior siding. Interior walls are paneled with gum plywood; partitions are fiberboard and acoustical plywood. Roofs consist of t&g planks on 4x10 beams covered with four-ply composition of decomposed brown granite.

Because of sandy soil conditions, the foundation is of reinforced concrete with no piling, but with a continuous membrane under all of the 4-in. concrete slabs on 6-in. gravel. Floor finishing is asphalt tile in the bathrooms and wall-to-wall carpeting in the bedrooms.



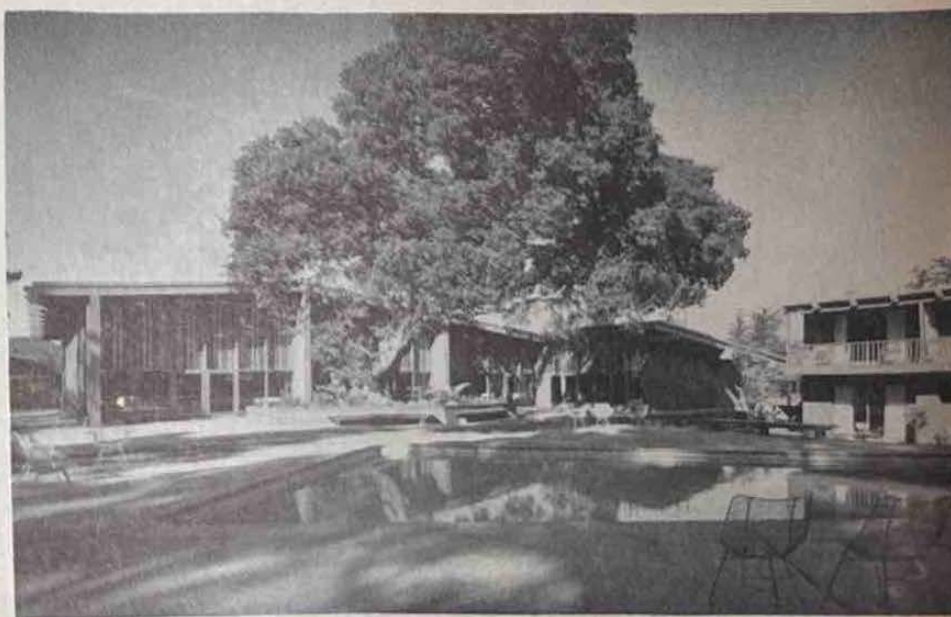
EXTERIOR DETAILS LIKE BALCONY RAILS, as well as custom fabrics, ironwork and tile of interiors, are derived from decorative traditions of Spanish era in Monterey, which served as capital of California in days when it was part of Mexico.



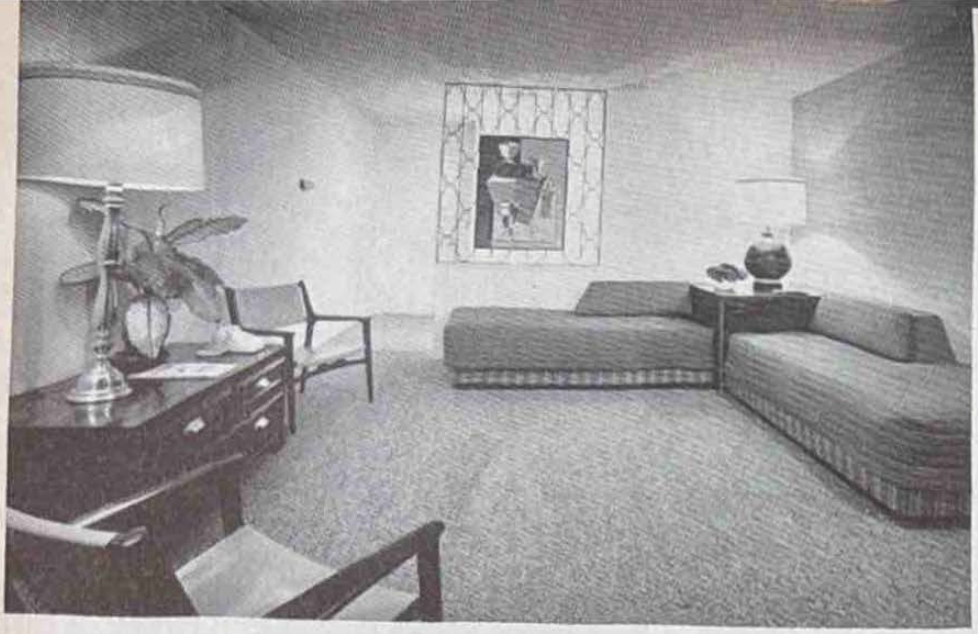
FIRST TWO STAGES NOW COMPLETE provide 58 units, restaurant and lounge. Third stage will be developed around elongated central terrace or detached courtyard.



PHASE 2: The second group of 28 units, bringing the total to 58, is designed in the same style and spirit as the first, but the rooms are slightly larger and more elaborately decorated and furnished. Gypsum board is used between the plywood and redwood siding; fir plywood is used as roof decking. The two-story units also have fir plywood underlayment in the floor construction and the restaurant roof has a diaphragm of the same material. Facilities include two banquet rooms, the largest of which can seat 200 diners and an additional 100 persons for meeting purposes.



SECOND STAGE OF PROGRAM wins AIA award of merit in 1957, just as first stage did a year earlier.



MARK THOMAS INN

BEDROOM INTERIORS of Phase 2 have fiberboard partitions paneled with stained acoustical plywood; one wall is covered with grass cloth. Fabrics were woven in Mexico and delicate patterns in iron grills are used as dividers. Each bedroom has wall-to-wall carpeting, asphalt tile in bath. Interiors are by James Aldridge.

OUTLINE SPECIFICATIONS

Structure: Wood frame on reinforced concrete foundation.

Exterior Walls: Stained redwood board and batten over fir plywood sheathing.

Roof: 2-in. t&g planks on 4x10 beams covered with 4-ply composition (Pabco) with brown granite chips.

Windows: Sliding steel (Rusco).

Doors: Sliding glass (Malibu) in some rooms.

Floors: Asphalt tile, carpeting over 4-in. concrete slab.

Interior Partitions: Fiberboard, acoustical plywood (U. S. Gypsum).

Interior Finish: Stained varnish gum plywood, stained exposed planks and beams, enamel plasterboard, ceramic tile wainscot in baths.

Heating: Unit heaters with thermostats (Minneapolis-Honeywell) in all bedrooms, infrared lamps in bathroom ceilings.

Cost Data:

PHASE 1 (completed June 1955)

Total Area: 12,602 sq. ft.

Total Cost: $187,385.

Cost per Square Foot: $14.83.

PHASE 2 (completed October 1956)

Touring rooms

Total Area: 9,360 sq. ft.

Total Cost: $152,000.

Cost per Square Foot: $16.30.

Flexible convention rooms, cabanas and services

Total Area: 2,112 sq. ft.

Total Cost: $20,000.

Cost per Square Foot: $9.50.

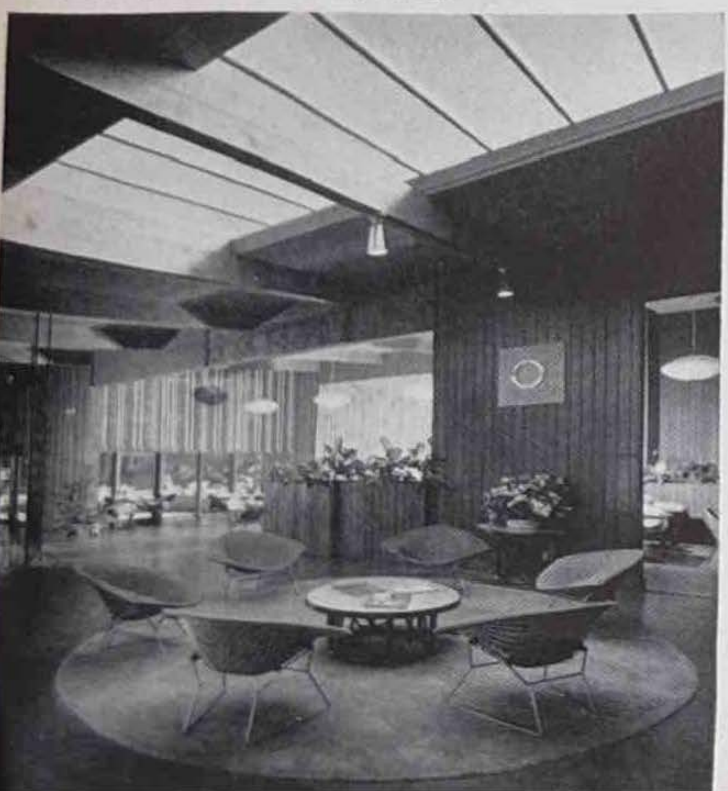
Restaurant and lounge building

Total Area: 9,152 sq. ft.

Total Cost: $168,390.

Cost per Square Foot: $18.40.

ENTRANCE LOUNGE repeats decorative metal grillwork found in bedrooms, has V-joint redwood rustic paneling.



RESTAURANT CONSISTS of four small interconnected rooms, each looking out to exterior court.



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4 and 6 foot lengths are available, 24" deep. Any combination of backsplashes and/or endsplashes will be provided. Models are available to meet New York State or Detroit Code requirement of drinking fountain separate from receptor.



HAWS Model 2546-4 — Reinforced fiberglass, one-piece deck-top and receptor in color. HAWS Model 414A aerated gooseneck faucet at left, and Model 2N2 sanitary drinking faucet at right — both VANDAL PROOF mounted.

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An intelligent use of the site

River and power firm make good companions

The Washington Water Power Co. Service Center, Spokane

KENNETH W. BROOKS, AIA
BRUCE M. WALKER, AIA
Architects

EBASCO SERVICES, INC.
Planning Consultants

WILLIAM W. WILSON
Structural Engineer

KENDALL M. WOOD
Mechanical Engineer

J. DONALD KROEKER & ASSOCIATES
Mechanical Consultants

JOSEPH M. DOYLE
Electrical Engineer

LAWRENCE HALPRIN
Landscape Architect

SHANNON & WILSON
Soil Mechanics Consultants

JOHNSON, BUSBOOM & RAUH
General Contractors

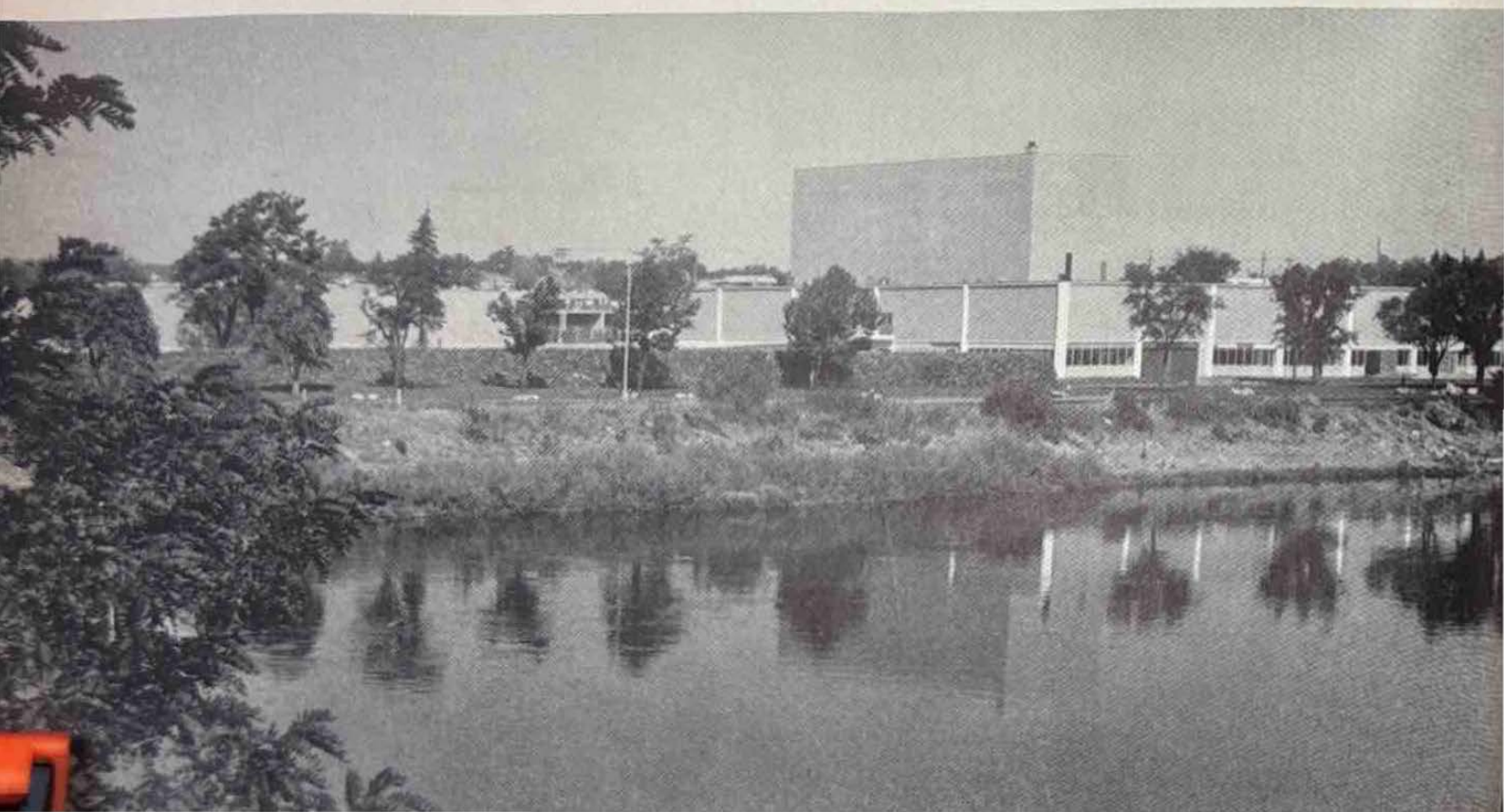
AMENITIES OF THE RIVER have been fully recognized in developing a service center for a private utility which supplies electrical power to the Inland Empire. The site lies adjacent to the Spokane River and one of the city's most scenic drives.

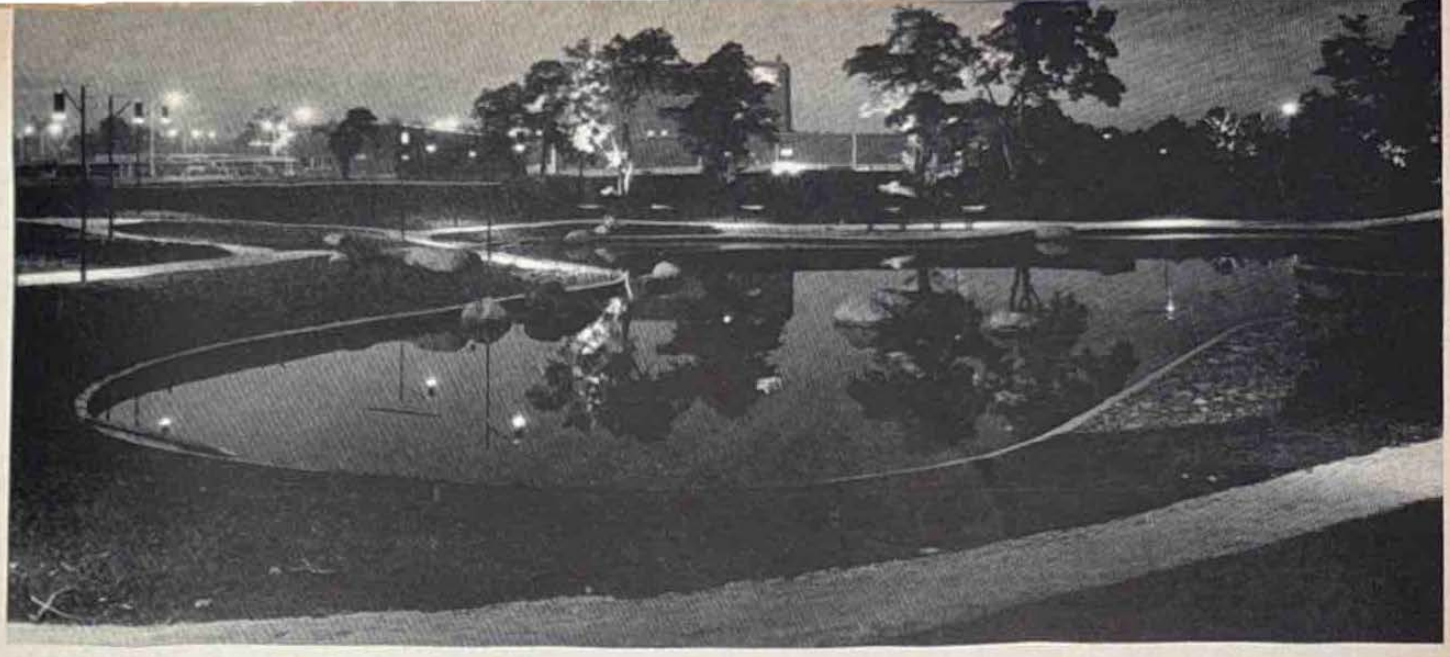
The landscaping program, which is still underway, was predicated on meeting requirements of a special zone classification received by the client to utilize a 28-acre residential area for an industrial purpose; hence the need for screening and planting to harmonize with nearby homes and parks. One of the distinguishing features appropriately enough is the inclusion of water: a 120,000-gal. reservoir storing the discharge water which the heat pump uses and which irrigates the entire site.

To complement this setting, the architects designed the structures as architectural understatements. Already completed are the clean-cut 300x210-ft. service building and storage and maintenance garages, the large expanses of brick facing being relieved by multicolored door panels.

Second stage of construction now in progress consists of a five-story office building—of glass, aluminum, steel and brick—, to be surrounded by spacious parking areas and connected to an adjoining cafeteria-auditorium by a covered walkway and an underground tunnel. The overall project when completed next spring will consolidate more than a dozen service, repair and maintenance operations formerly scattered throughout the city. The building program is based on a 35-year projection of requirements during a period of rapid growth and the site allows considerable room for expansion.

SERVICE BUILDING as viewed from south side of Spokane River. Rectangular brick portion rising above houses 40- and 5-ton cranes used in maintaining heavy equipment.





RECIRCULATING POOL has twofold purpose: it stores discharge water used by heat pump and is strong element in landscape design. Photo above shows Stage 1 construction only.

OUTLINE SPECIFICATIONS

Structure: Reinforced concrete, 30x40 bay sizes with two-way pan type slabs.

Exterior Walls: Reinforced brick cavity, aluminum, porcelain enamel, glass window.

Roof: 18-in. deep pan with 2½-in. slab, built up with coal tar, pitch, gravel.

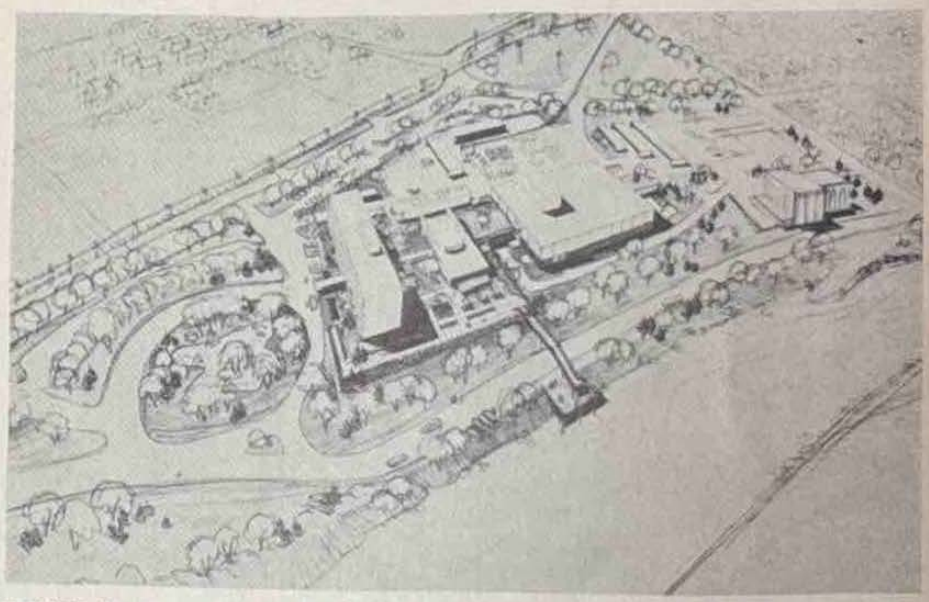
Doors: Hollow metal, personnel; 28-ft. wide overhead steel rolling with electronic control, loading dock.

Interior Finish: Poured concrete on concrete block with speckled white, gray, beige wear-resistant paint.

Floors: Structural glazed tile, vinyl-asbestos composition tile, mosaic tile (in wet areas) on concrete slab.

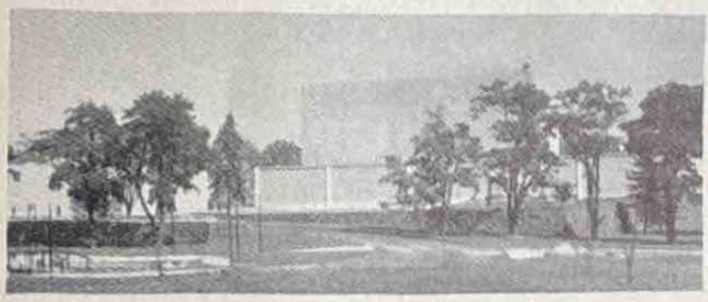
Ceilings: Suspended acoustical with integral lighting and air diffusion in office areas.

Date of Completion: October 1956.

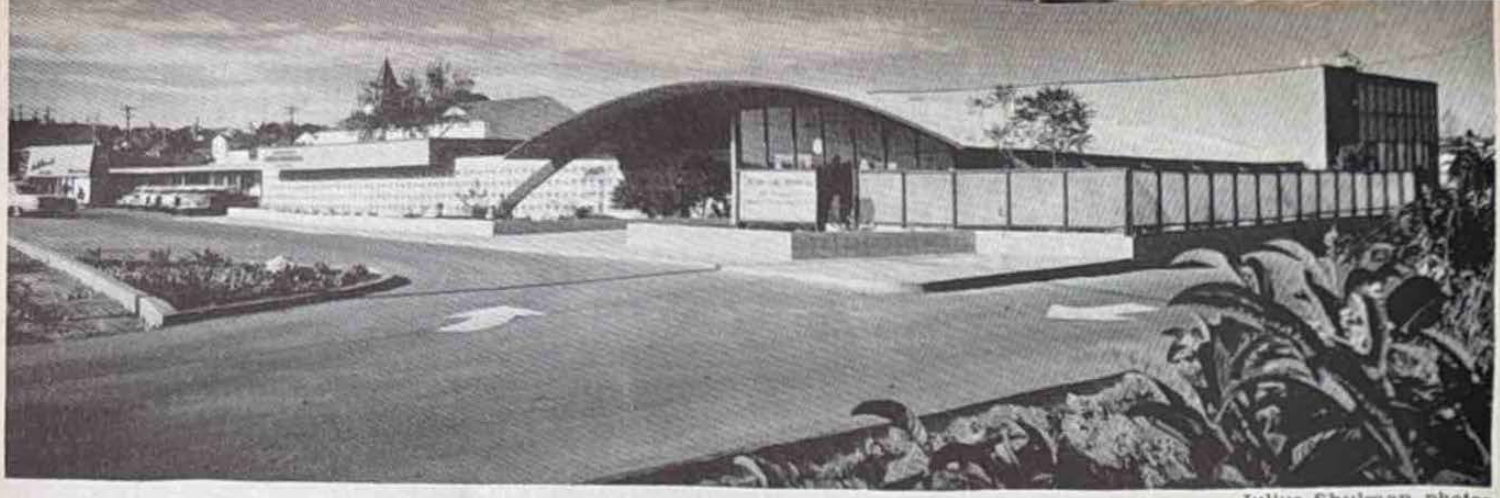


SERVICE CENTER upon completion next spring will consist of five-story office building connected to employee cafeteria-auditorium now under construction and service building and related facilities already completed. Entire project will cost about $7 million; Phase 1, including cost of land, basements for office building and cafeteria, paving and drainage, landscaping, etc., accounts for one-half of total cost.

GROUND-LEVEL SHOPS occupy full length of service building but only half its width. At extreme left of truck parked in driveway under balcony-porch (photo right) is entrance to center's boiler room which contains heat pump equipment.



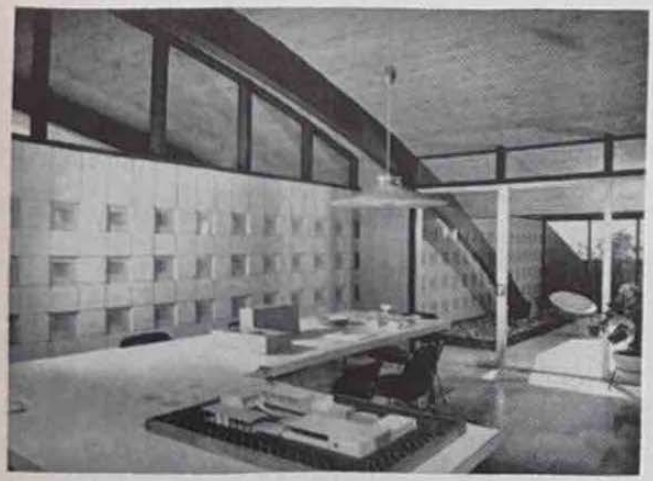




Julius Shulman photos

EXTERIOR COLORS CONCENTRATE on olive tan and burnt umber, with touches of blue and yellow on doors and various panels. Electric fixtures have been recessed as much as possible, hanging lights being used only for accent purposes. Sheets of fiberglass cut to fit into openings in screening wall of concrete block admit light, but seal cold out and heat in. Concrete block planting box serves as barrier to cars in front parking lot, provides break in design.







Where architects hang their hats

RICHARD GEORGE WHEELER & ASSOCIATES
San Diego, California

HORIZON HOUSE, which the architect designed for his own use, is shared by 12 tenants with somewhat related interests: landscape architect, decorator, land developer, civil engineer, etc. The $130,000 (covers building, landscaping and parking space for 30 cars) single-story, no-basement structure was built by Henry L. Wheeler at $8.20 per square foot. Designed for a second-floor addition above the drafting room, the building is of post and beam construction, utilizing pipe columns on a 24-ft. spacing, with laminated beams spanning 32 ft. and an 8-ft. cantilever to cover the walks. This method of beams on pipe columns, with normal wood joists between beams, helped make it possible to attach the roof arches to concrete piers which absorb all the thrust of the roof weight.

The section occupied by the architectural firm is the most dramatic in appearance. Here six 70-ft. laminated wood arches 10 ft. 6 in. o.c. are used, with 2x6 t&g sheathing spans between the arches, allowing for interior walls—wood panels and glass—that can be easily and economically moved during future remodeling or expansion. Most of the building interior consists of stucco plastering and plywood paneling.

The exterior employs concrete block set in a varied and interesting pattern, obtained by turning every third block, horizontally and vertically, on its side and projecting it 1½ in. The block, all 8x8x8 in the screening wall and retaining walls around the building, introduces a change of pace in the design and conveys a feeling of rigidity and solidity.

A problem created by the water table being only 7 ft. below the floor resulted in the use of rock gardens rather than landscape planting. Large smooth rounded gray stones make light patterns under the arches and the overall effect is Oriental. Translucent fiberglass panels, although fixed in place, heighten the effect and give the gardens a delicate air. Although the offices are not especially large, the beams carried inside and the open partitions and patios make them appear much more spacious than they actually are.

'Structural steel in today's architecture'

Excerpts from an address presented by N. P. Hayes at a preview reception of the exhibit "Structural Steel in Today's Architecture in New York's Socony-Mobil Building, largest stainless steel skyscraper in the world

THE PRECISION with which we can now construct architectural forms has stimulated architects to create more freely. Steel, as we all know, has been accepted and used widely in building for a hundred years. Yet until very recently its possibility as a creative medium—as a beautifying material—was totally neglected. As soon as this virtue was uncovered architects began to assign steel the dual role of structural and architectural element in many new kinds of structures. Today exposed steel beams and columns share the job of supporting a building and at the same time add to its attractiveness.

We consider this development so important that we have emphasized it in selecting the buildings which make up this new exhibit. These pictures comprise an eloquent demonstration of the eye-catching beauty that results when steel—in colorfully painted, porcelainized or other finishes—is joined with glass, stone, brick or some other material to make a modern building.

The near distant future promises even greater accomplishments with structural steel. Its potential economies and creative possibilities have been scarcely touched thus far. We are now working on practical applications of a new theory of plastic design which may drastically reduce the amount of steel required for some types of buildings. Through this development builders may be able to save not only steel, but also a considerable proportion of the cost of design and structural analysis.

In addition, scientists are finding ways to produce lightweight steels that have greater tensile strength, resistance to corrosion and other desirable properties. And a leading steel company is now doing research aimed at producing a structural steel that will be transparent enough to transmit light into buildings.

We foresee a permanent marriage of steel and architecture extending very far into the future. A magnificent new era in which science will glorify steel in wonderful new ways. Members of the American Institute of Steel Construction are planning to work more closely than ever with architects, engineers, builders and laboratory scientists to speed the improvement and general progress of the construction industry.

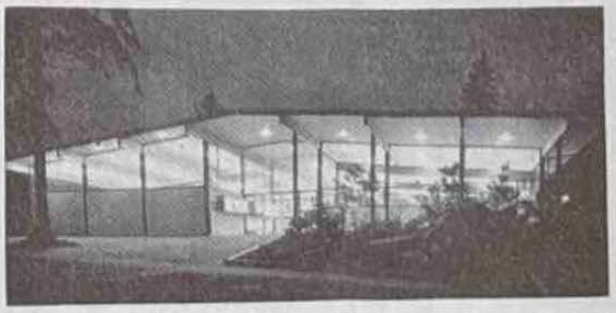
Shown on this page are four projects represented in the exhibit of the American Institute of Steel Construction, which will hang at Hotel del Coronado near San Diego October 6-10, following a showing in Los Angeles September 16-20. The collection of photographs has been booked for Seattle for four months in 1958, starting in May.



MARINELAND, Palos Verdes, Calif.: Pereira & Luckman, architects-engineers. "The architects chose rigid frames of exposed structural steel for their architectural qualities. The rigid frames offer a convenient and economical method of resisting and absorbing impulse forces of the salt water in the open tanks during earthquakes."



BETHLEHEM PACIFIC COAST STEEL CORP., Torrance, Calif.: Albert C. Martin & Associates, architects-engineers. "By design of the architects, this building serves to demonstrate new uses for the products represented. It is the first building of its type to have exposed structural steel supporting frames. Color closely related to the steel industry is used, beginning with red lead on the X-bracings. As the background for the vivid red a variety of grays was used, light gray behind the cross bracing, charcoal in columns and beams."



NORTHWEST BRANCH, SEATTLE PUBLIC LIBRARY, Seattle: Paul Thiry, architect; Sigmund Ivarsson, structural engineer. "The role of steel in buildings is to supply the main strength element. It often remains concealed in the background, hidden beneath other materials. In this instance the architect, winner of two awards for pleasing original design, has given a clear impression of the clean, functional lines of structural steel. The exposed steel beams, spanning one half of the library's width, eliminate a number of supporting columns to allow large areas of uncluttered space."

HILLSDALE HIGH SCHOOL, San Mateo, Calif.: John Lyon Reid & Partners, architects-engineers. "The architects of Hillsdale built a school of classic quality, handling the framework in a deft manner to create a serene and orderly profile. The buildings' strong, bold classicism have fine proportion, detail and color and appear at their best when filled with children. The exposed light steel frame permitted fast erection and furnished earthquake protection."





Publicity for the architect's office

A Los Angeles public relations counsel who has represented an architectural firm offers some first-hand suggestions

by ELAINE K. SEWELL

WHAT THE ARCHITECT can do in regard to publicity for his office will depend upon the individual and his attitude toward architecture. If he has only the goal of "receiving publicity" without regard to qualitative standards, he may be disappointed.

In any form of communications between the architect and the public, the objective of the architect should be that of telling his story with pride and integrity. An architect has one of the most important responsibilities as an influence on the culture of our times. The architect has the specific assignment of making this world a better place in which to live. The architect is one of the most fortunate individuals in the world. He has more than slide rules, statistics and mortar; he has the concepts that make these things useful in the best sense of creativity.

The architect is particularly fortunate because he is directly dependent upon other professions and trades for completion of his work. The designer who creates new hardware devices, the engineer who improves weatherstripping and the manufacturer who produces new materials are important to the architect's success in finding the best possible solution for each job.

By working with others in this way, the architect in particular can understand another man's work and have respect for his craft. With this innate reverence for another man's work, the architect can think of his own profession as a means to a better way of living for others.

If you as an architect believe these things and if you then practice these thoughts, you can apply the principles in your publicity efforts.

There are two things to consider: one is public relations and the other is publicity.

Public relations is a broad overall term which includes publicity. Edward L. Bernays, well-known expert in the field, says that public relations is "good works understood by the public." One of my simplified explanations is that "public relations is the interpretation of the client and his company to his individual publics." The work of interpretation by whatever means deemed best is the job of the public relations counsel.

The work of a counsel is highly skilled and cannot be undertaken on a professional level by someone who is not trained in that field. The scope of communications is so important to a firm in the interpretation of its work that only top-level management is equipped to provide the basic information for the professional counsel, and the interpretation of the client should not be left to amateur hands.

At the same time, every individual can represent his firm at the best level for effective public relations. If every architect will take advantage of every opportunity to explain architecture, not just to toot his own horn, the profession will benefit.

The architectural firm which is not large enough to have an outside counsel to handle publicity or public relations, or who for other reasons prefers not to have a public relations program, can certainly do a thorough and good job in publicity.

The means or techniques of these communications will depend upon the objectives, strategy, planning and themes. Objectives may be long-term, short-term or intermediate. Strategy will depend upon research conducted to ascertain the problem and nature of the solution. Planning and themes follow according to the specific nature of the problem and its solution.

To repeat, publicity is one phase of public relations. Here we shall confine our remarks to publicity efforts only and just briefly in order to suggest that the subject is important for each firm to consider. Interpretation of the architect's work is necessary to bring about understanding. Misunderstandings by the voting public on school measures, for instance, come from lack of information in most instances. Educating a public is a long-term project. Public relations and publicity are not intended as measures or devices to mend broken fences. Good public relations and good publicity will help prevent the problems before they arise and will help educate the various publics over a long period of time.

The basic factor of general publicity for the architect is that it is a two-way benefit. The editors want to publicize good work; the architects want their good work to be published. How to get together?

There is an outlet for nearly every story of merit. It is important for the architectural firm seeking recognition for his work to be realistic about the publications who can logically feature the material. In other words, consider the story from the editor's point of view. The editor is in business to do a job tailored to a particular readership just as the architect has a given job to do for a given client. The editor's responsibility is to produce his publication to fill the desires of a specific readership either by age groups, professional interests, income brackets or other criteria.

If you are in doubt about usability of material, write the editor and tell him briefly what you have in mind.

Continued on p. 34

Publicity Points to Ponder

1. Don't worry about "writing an article." Worry about getting all the facts: who, what, when, why, where.
2. Be accurate. Better to omit a questionable "fact."
3. Get permission from your clients and anyone else necessary before you release material on their jobs. The editor doesn't want to look at jobs he can't publish because the client's grandfather owns a competitive publishing house.
4. Identify all photographs with name of job and architectural credit. Write only in soft pencil, lightly, on back of photo.
5. Do not use paper clips on photographs. Marks from clips damage the prints.
6. Be discriminating with photographs. The best photography is the best investment. One good photograph is worth several poor ones.
7. Type all material with double spacing to allow for editor's comments.
8. Answer editor's correspondence promptly. Deadlines wait for few mortal men.
9. Don't be afraid to ask the editor about disposition of your material. Be sure you understand if you are obligated for exclusive rights. Don't read a promise into his kind smile or hold him responsible for something he didn't say, but you hoped he would.
10. Don't be afraid to compliment the editor on a good editorial job, even though your job may not be mentioned. If it helps architecture in general, it helps every architect.

whatever you need

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Service Station by Fentron Industries



Plant Office by Calcor Corporation



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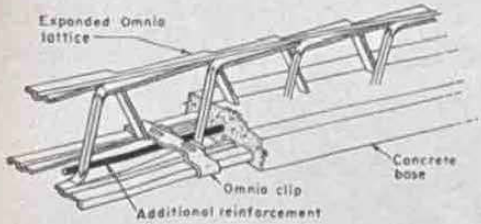
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UNITED STATES STEEL



THE OMNIA PLANK ASSEMBLY

Concrete floor system combines structural, erection advantages of cast-in-place and precast methods

A LIGHTWEIGHT beam-and-block floor and deck system which proved itself in Europe during the past five years and which is now being used for the first time in this country, is reported to provide the structural advantages of cast-in-place concrete, yet even simpler to erect than precast flooring.

Called the Omnia floor and adaptable to spans of 30 ft. or more, it is monolithic in character, thus acting as a stiffener to the whole structure. At the same time, it is particularly suited to mass production methods. And the new floor, unlike conventional block-and-beam systems, can be cambered during erection to produce a level finished surface over any span.

More than 75 million square feet of the floors and roofs have been erected in Europe since their development in Germany five years ago. The floor consists of three components: the "plank," filler blocks and concrete topping. The plank, a reinforced steel lattice girder with a reinforced concrete base provides the support for the floor. Lightweight concrete blocks rest between the planks. The planks and blocks (Photo No. 1) provide both support and forming for the concrete topping.

Structural advantages

The floor behaves structurally like a poured-in-place slab. It spreads concentrated loads, absorbs impact and vibration stresses and resists cracking. Because of its light weight the new floor allows design economies by reducing the load on supporting members. Its solid construction gives great resilience.

As the steel is adequately covered, the system has fireproof qualities. Cast-in-place concrete girders may be used with precast floor joists. The floors are adaptable to many loads and spans by varying the height of the lattice girder, the amount of reinforcing, the spacing between planks and the topping thickness.

Erection advantages

The light weight and relatively small unit size of its mass produced precast components are the primary erection advantages of the floor. Typical planks weigh but 11 lb. per foot compared to about 25 lb. or more per foot for conventional precast beams. Weight of a typical filler block is 30 lb. or 22½ lb. per square foot, although they may be lighter. Thus, the precast members are easily manhandled (Photo No. 2) and require none of the expensive heavy equipment usually necessary for precast erection.

Since the precast members act as the forming for the cast-in-place topping, expensive forms are unnecessary as is the close technical supervision which is normally required for form construction. Forming for roof lights, stairwells and stacks can be provided easily, as can change of direction of beams.

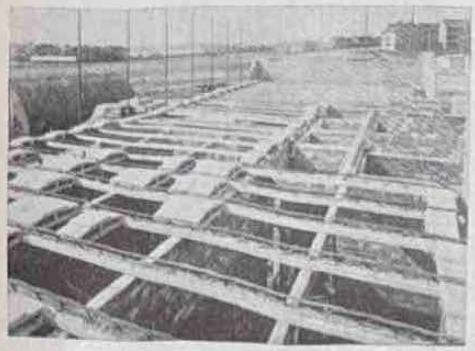
In addition, facilities for services are easily located in the floor. They may be placed beneath the topping, through the hollow blocks, or in cross ribs (Photo No. 3).

Finally, the poured concrete of the floor acts as the T-flange of reinforced beams and frames, thus increasing their resistance without additional labor or expense.

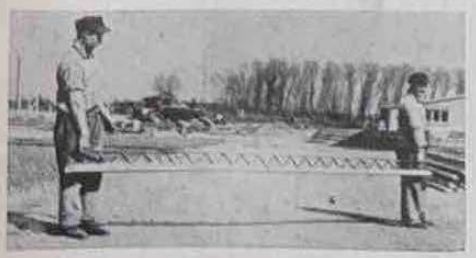
Construction

The precast plank consists of a lattice girder of 15-gage cold rolled steel, additional reinforcement attached to the lattice boom with clips, which also act as spacers, and a shallow concrete base. The stamped lattice strip is shipped and stored flat, then cut to length and expanded near the point of use. Its bottom booms provide tensile reinforcement for erection stresses and short cantilevers. Lattice diagonals mechanically bond the precast base and the cast-in-place topping. Additional reinforcement is not required on spans up to 8 ft. or 4-ft. cantilevers; for longer spans it is selected according to job requirements. The shallow concrete base which forms the soffit is cast in simple mass production molds or produced by machine.

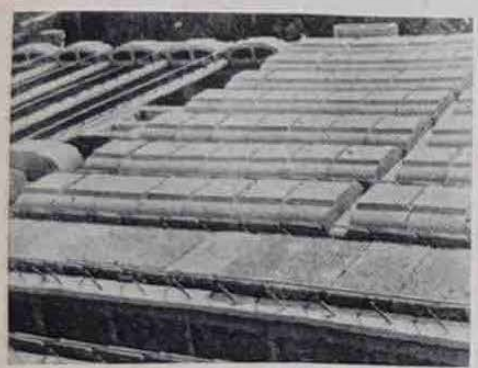
The hollow filler blocks are precast of lightweight concrete, burnt clay or other similar materials. Their depth can be modified to suit the modular or load requirements of the job or local production facilities. Two core or three core blocks may be utilized.



No. 1: Planks in place and concrete blocks partially laid. Note wooden beam perpendicular to planks at midspan in right foreground. Beam, supported by jacks, produces camber to give level finished floor. Two core blocks are used here, but three also are suitable.



No. 2: Two workmen can carry lightweight planks up to 20-ft. long. This one is 15 ft. Plank casting bed is visible at left.



No. 3: Floors are extremely adapatable to changes in direction and to simple installation of utilities, accomodated by low, flat blocks.

PROSAIC SUBJECT + ARCHITECT =

NATIONAL ACCLAIM



Architect: W. F. Bernbrock, Moline, Illinois

Even the drab lumber yard — given the imaginative design and functional beauty of an architect's touch — can win local sales and national acclaim. Such is the experience of Builders Lumber Company, Moline, Illinois, where Rilco laminated-wood beams and deck help express the dramatic "open feeling" that seems to say "welcome" to customers.

While only a small portion of the complete structure, this store area has become the focal point which lifts this building out of the ordinary. Interest and sales have increased to a "happy" degree.

Rilco laminated-wood arches, beams, purlins, trusses and deck offer unlimited variations that stimulate new, interesting and practical design at low cost. For complete information just write

Note mezzanine supported from above and below by Rilco laminated wood beams



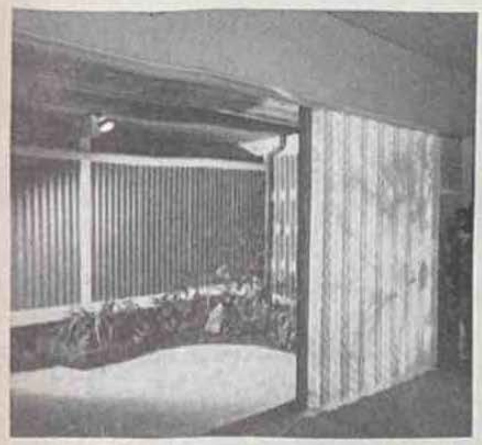
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WINDOW BLIND: A semi-translucent traversing window blind, the Jaylis filters glare from sunlight and transmits diffused light into the room. The three-dimensional molded pattern permits air to pass through unobtrusive horizontal vents that are an integral part of the design. The blind can be used as a room divider, as a door for storage spaces and as wall screen; and at night these applications can be made dramatically luminous through use of electrical lighting. It has high reflective qualities, making it especially desirable for large expanses of windows with sun problems. —Jaylis Sales Corp.

(Item No. 1)

FOUNTAIN UNIT: Particularly designed for school applications, the Haws one-piece, deck-top receptor and fountain unit features the absence of any rims, cracks or joints, eliminating undesirable dirt and water accumulation. Molded in lightweight fiberglass, Series 2500 units are in standard lengths of 4 and 6 ft. and are 24 in. deep, furnished with integral backsplashes and endsplashes as required. Installation is easily accomplished by screwing wooden receptor backing onto a prepared frame or standard cabinet. — Haws Drinking Faucet Co.

(Item No. 2)

GARBAGE DISPOSAL: An addition to the Pioneer family of kitchen appliances is the D-57 disposal whose one-piece splash guard permits wide throat opening for easier loading. Chrome steel shredder plate and ring are designed for controlled microfine pulverizing of all food wastes and even bottle caps accidentally dropped into the unit are ground up without jamming the moving parts. During operation the outlet duct swirls jets of water at high velocity and low pressure to impart a scouring action that keeps home plumbing clean and free from clogging.—Pioneer Manufacturing Co.

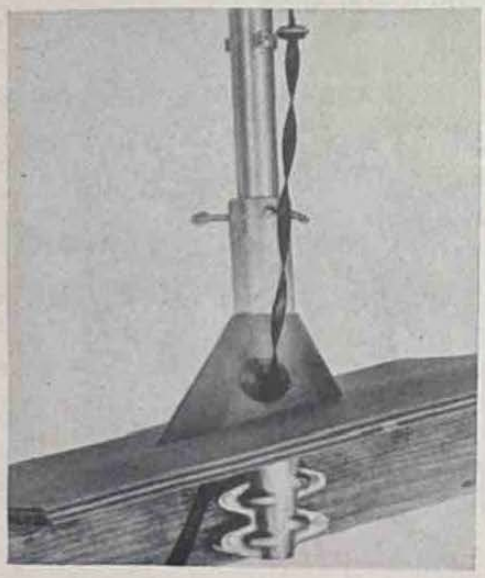
(Item No. 3)

FLOOR TILE: To match its Salt-n-Pepper wall tile, Pomona has introduced a Perma-Glaze floor tile, cream colored with "pepper" distributed evenly throughout. The double-glaze process provides a hard finish that results in a depth and texture.—Pomona Tile Manufacturing Co.

(Item No. 4)

TV ROOF MOUNT: A one-piece aluminum mast holder, the Tele-Jac eliminates unsightly guy wires and exposed lead-ins which damage the roof and keeps the antenna in a vertical position. Wires from the antenna disappear at the base of the mast and are built into the wall, terminating at a wall plate with plug. When this plug is attached to the TV set's lead wire, it enables the user to plug into and unplug from the antenna, much the same as a lamp plug into the wall. Thus it does away with the coil of wires found behind the set. If done while the building is under construction, installation should not take more than 30 minutes. The Tele-Jac has been specified for a number of Capehart housing projects in the West.—The Tele-Jac Co.

(Item No. 5)

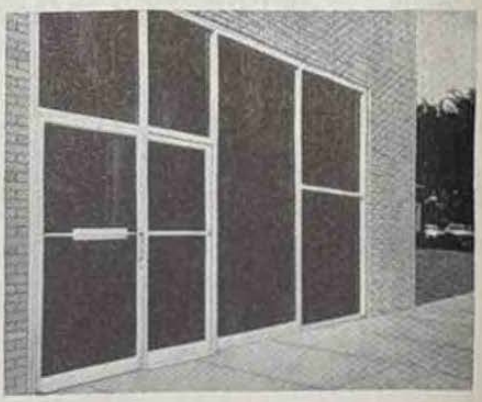


PLUMBING FIXTURES TEMPLATE: To assist architects and mechanical engineers in preparing scale elevation drawings of bathrooms and powder rooms, American-Standard has produced a template showing the exact elevations and profile views of many of its plumbing fixtures. It is done in ½-, ¼- and ⅛-in. scales for flexibility.—American-Standard Plumbing and Heating Division.

(Item No. 6)

FIXED GLAZING SYSTEM: A building front and wall system that uses only a few standardized glass framing members provides unlimited design freedom and is the first to offer flush glazing on all four sides of a glass pane. Built-in glass holding channels in all the components eliminate the extra lines of the protruding glazing members common to most other systems. Glass stops may be used where the flush glazing is not desired.—Kawneer Co.

(Item No. 7)

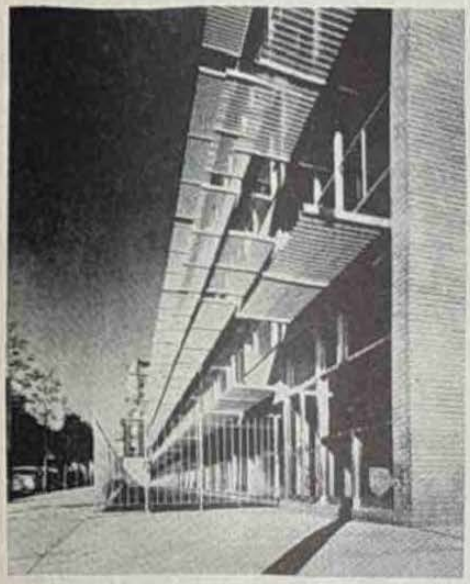


SUN CHART: Jaffe's sun chart provides assistance in proper placement of windows, walls, specific rooms, swimming pools, etc., by showing where the sun shines every hour everywhere in the United States and plotting its direction and altitude at various times of the day throughout the year. The chart uses a system of crossed lines with a "sun mark" placed over building plans. It gives an average position of the sun at various hours of the day at 34 deg. north (Los Angeles to Atlanta) and 42 deg. north (Medford, Ore., to Boston); thus other areas can easily be estimated from these key positions. — Western Blue Print Co.

(Item No. 8)

GRATING SUNSHADES: On school building and other structures which often require large glass areas for natural lighting, Irving has developed standard panels of grating for use as sunshades. In addition to helping control sky glare, they will not collect rain or snow and are strong enough to be used for window cleaning walkways. The grating may be mounted in any plane and is available in a variety of mesh patterns, fabricated in aluminum (used on Curtis Hall at Temple University shown in photo), steel and other metals.—Irving Subway Grating Co.

(Item No. 9)



LAMINATED PLASTIC: Joining the ever-increasing list of plastics is Pearsonite, a completely prefinished three-dimensional formable sheet, available in bright metallic, multicolored or wood veneer finishes. It is offered in a dozen finishes, a wide choice of deep-embossed textures and is produced in 40- and 48-in. wide continuous rolls of up to 100 yd. Typical applications; acoustical ceilings and walls, wall tile, decorative cabinet veneers, work surfaces, kitchen and scuff plates, venetian blind slats. —Metallic Plastic Corp.

(Item No. 10)

BONDING FOAM: Used for thermal, electrical and sound insulation, for structural strength, etc., Stafoam polyurethaene formulations for spray gun coating will foam in place to any desired thickness between ⅛ and 2 in., forming a surface bond stronger than the material itself. Densities range between 2 and 20 lb. per cubic foot, either in rigid or semi-rigid forms and in non-spray formulations as well. —American Latex Products Corp.

(Item No. 11)

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Yours for the Asking

CONSTRUCTION DATA: Horn's 108-page handbook provides an easy reference to nearly 100 specialty products it manufactures for industrial, institutional and commercial users in the West. With each description is an outline of recommended uses, methods of application, covering capacity and colors. More than 30 construction tables, guides and charts are included. —A. C. Horn Co., Inc.

(Item No. 12)

RED CEDAR: "Western Red Cedar Lumber Grades and Uses" is a companion piece to the previously issued Douglas fir and West Coast hemlock species booklets. Eleven grades are represented in full-page illustrations. The 36 pages also include replicas of grade stamps, conversion tables, recommended nailing practices and roof decking spans.—West Coast Lumbermen's Association.

(Item No. 13)

HOME LIGHTING: The first practical standards for minimum quality lighting in the home are available on a single sheet. In addition to outlining general and specific area requirements, the standards describe desirable fixtures and outlets to assure comfort and safety.—American Home Lighting Institute.

(Item No. 14)

HEATING SYSTEM: How to integrate Lennox's Comfort Curtain heating and ventilating system into school building design is treated in an eight page brochure of sketches created by a Chicago architect, which are intended to stimulate the imagination. Simplified floor plans accompany the sketches.—Lennox Industries, Inc.

(Item No. 15)

TWO-WAY FORMING UNIT: The Ceco-Meyer Steeldome, described in a four-page brochure, is a newly developed product for use in forming waffle type concrete joist construction. It is a one-piece form designed especially for exposed ceiling construction.—Ceco Steel Products Corp.

(Item No. 16)

WELDED WIRE FABRIC: A revised 44-page edition of the design manual on the use of welded wire fabric in reinforced concrete building construction is packed with diagrams, tables and data covering such methods as short-span construction, cinder concrete floors and roofs, tilt-up wall construction, gun work and other current practices. Other topics: fireproofing structural steel, lightweight structural concrete, shrinkage and temperature reinforcement and concrete slabs on ground. — Wire Reinforcement Institute, Inc.

(Item No. 17)

DESIGNING FOR EARTHQUAKES: A bibliography concerning earthquake resistant design lists publications on seismology, the magnitude and intensity of earthquakes, engineering applications, building codes, insurance codes and reference sources.—American Institute of Steel Construction.

(Item No. 18)

MASONRY WALL REINFORCING: Results of research conducted at the University of Toledo on how joint reinforcing actually affects the strength of masonry construction have been assembled as individual sheets in a file folder. Scope of the study included the effectiveness of deformation of steel side rods, design comparison tests, mortars, distribution of wall stresses and related tests.—Dur-o-wal.

(Item No. 19)

READER SERVICE

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

SEPTEMBER 1957

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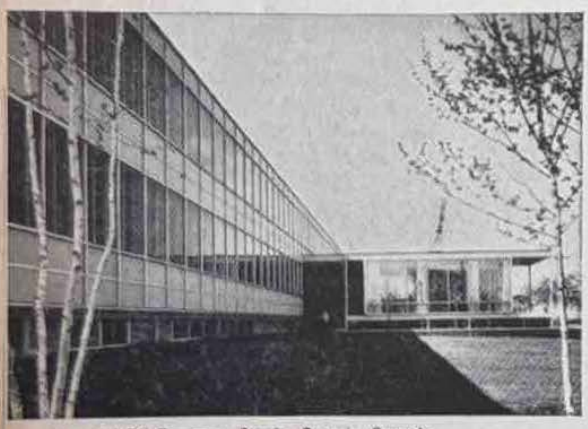
KAWNEER...

A single source for a complete

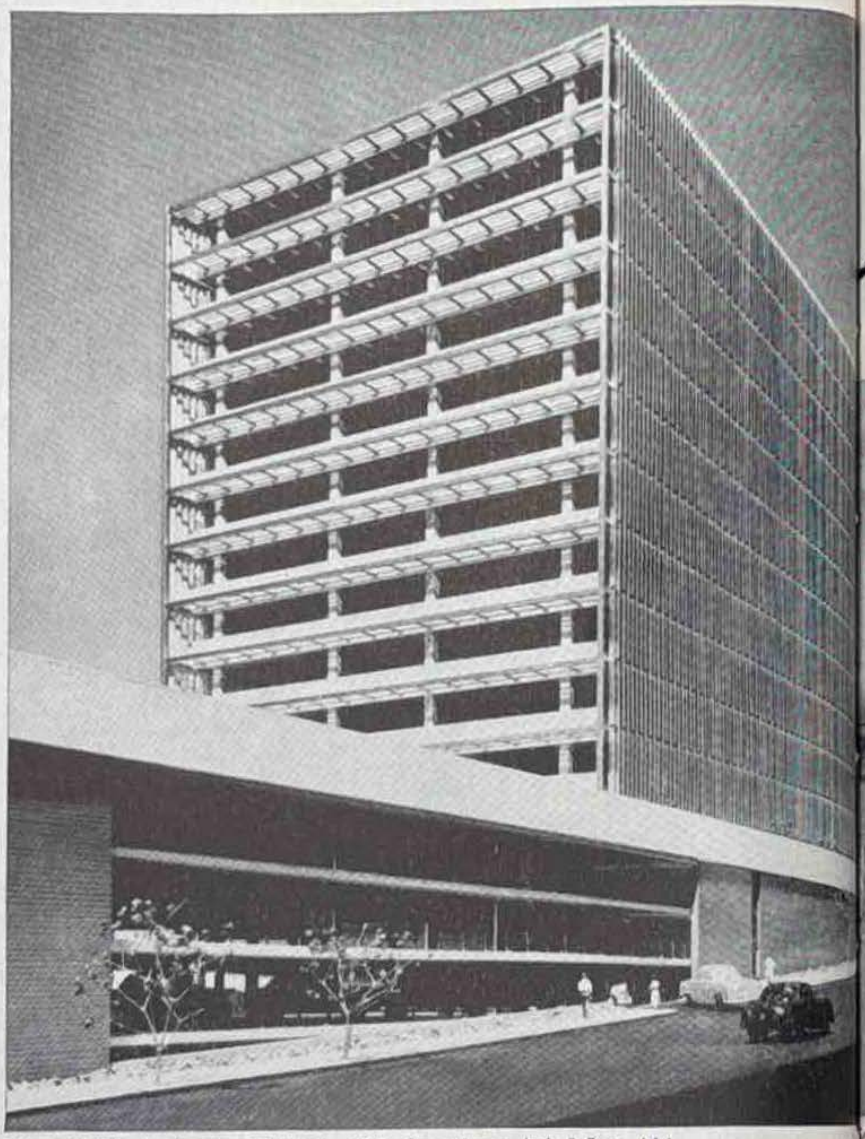


CUSTOM FABRICATED

ANALYSIS AND ENGINEERING—The Kawneer engineering team considers every curtain wall application as unique. Each is subjected to a searching analysis. Such points as (1) the curtain wall's effect on load bearing elements, (2) adequate accomodation for wall movement due to wind load and temperature change, (3) weathering features and (4) integration of all components within the wall system are the subjects of careful study. The result of this careful analysis is a curtain wall design that provides the highest standards of performance while retaining the most expressive appearance of the architect's design.



Imperial Oil Company, Sarnia, Ontario, Canada
Arch.: John B. Parkin Assocs., Sarnia



Tishman Building, Los Angeles, Calif. Arch.: Victor Gruen Assocs. Arch. & Engr., A.I.A.

FABRICATION—Kawneer modern fabricating facilities and flexibility of production assure you of the most effective execution of your metal wall requirements. Whatever finish or material, whatever performance demands you make, Kawneer will provide the answer in its metal wall system.

INSTALLATION—Kawneer takes complete responsibility for engineering, fabricatio[illegible]stallation . . . assurance that your [illegible]wall will perform to your

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Mutual Benefit Life Insurance Co., Newark, N. J.
Arch.: Eggers & Higgins, F.A.I.A., Newark
Gen. Contr.: Geo. A. Fuller, New York City

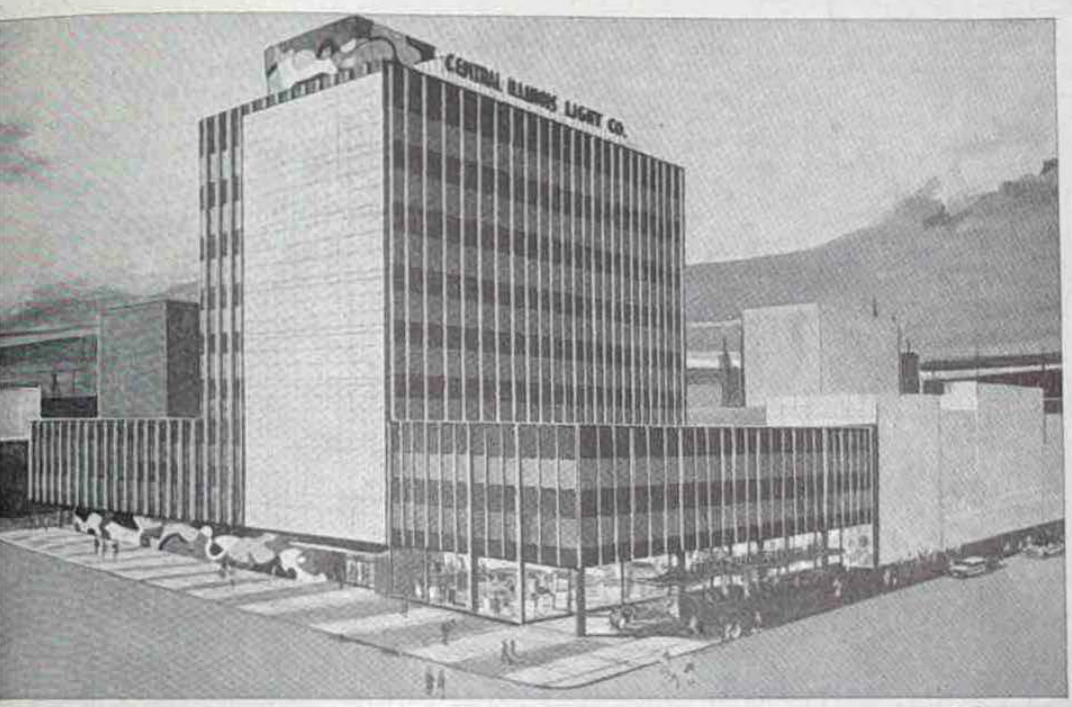
curtain wall system



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Kawneer as a single source for curtain wall means high quality units are available in aluminum, stainless steel or porcelain finish. You have a selection of roll formed, brake formed or extruded shapes. Specially designed operating sash with neoprene or vinyl weather seal or fixed glazing can be used. Insulated sandwich panels, custom-engineered sun control devices can be adapted to any job. The finest aluminum entrance units and aluminum or vinyl covered flush doors are also available.

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PA&B T-square talk

NEW FIRM: Eric W. Johnson and Glen H. Mortensen have formed the architectural firm of Johnson & Mortensen at 142 N. California, Stockton, Calif.

✓ John R. Ross, AIA, of San Luis Obispo, Calif., who has been in partnership with William D. Holdredge for the past year, has established an office under his own name at 1149 Marsh St. Holdredge has moved to Texas where he has purchased another firm.

✓ The architectural firm of Donn Weaver & Associates has been formed to succeed Ingle & Weaver, with offices at 107 W. Perkins St., Ukiah, Calif.

OFFICE EXPANSIONS: Haarstick Lundgren & Associates, Inc., architects-engineers of St. Paul, have opened an office in San Francisco in the Pacific National Bank Building, 333 Montgomery St. In charge will be associate Robert A. Bennighof who holds architectural degrees from the University of Minnesota and the Cranbrook Academy of Art.

✓ Adrian Wilson & Associates, architects-engineers with headquarters in Los Angeles, have established a permanent office in Las Vegas, headed by project manager Richard Drayton. For the past two years he has been in Los Angeles during preparation of plans for the Las Vegas Convention Center.

ON THE MOVE: The office of Jack A. Edson, AIA, is now located at 44 N. Front, Medford, Ore.

DIED: Gabriel A. Berger, 88, architect who designed many of the buildings in San Francisco Mission District, died July 25 after an extended illness.

✓ Roi L. Morin, AIA, passed away August 12 in a Portland hospital at the age of 60. A native of Massachusetts, he was a graduate of MIT and in 1924 came to Portland where he was associated with Herman Brookman on the design of a number of buildings, including Temple Beth Israel. Among Morin's recent designs were the Civic Theater and Pioneer Broadcasting buildings.

NAMED: Oswald Berg Jr., who heads the Montana Chapter, AIA, has been appointed a city commissioner in Bozeman, Mont.

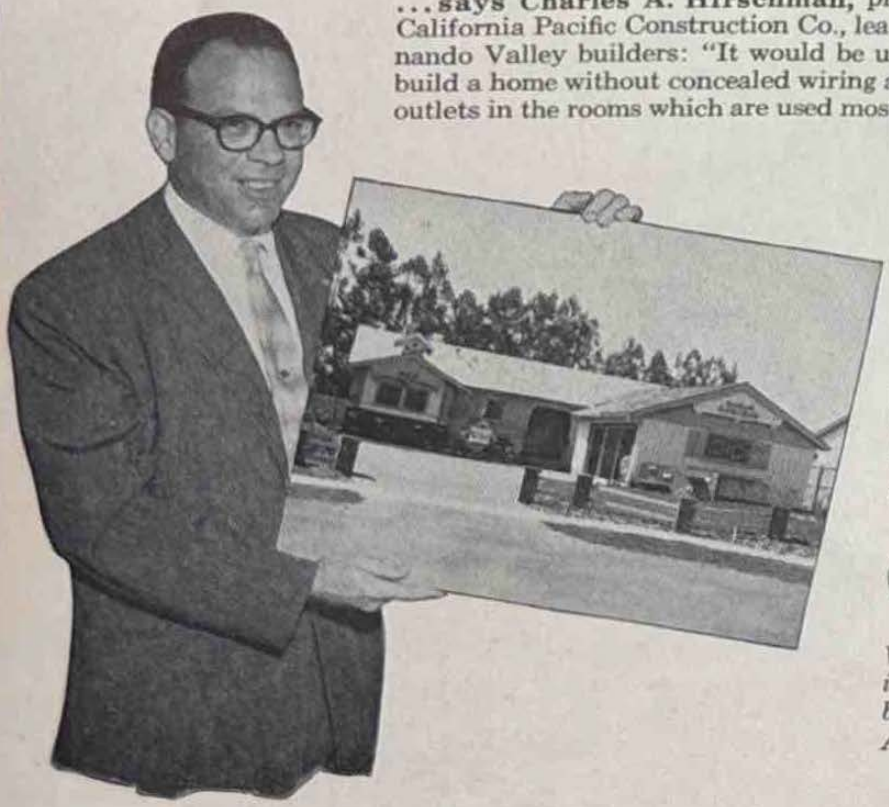
✓ Seattle architect J. Lister Holmes has been elected chairman of the city's newly created Board of Adjustment, which will hold public hearings on applications for conditional uses of property in various zoning districts and requests for zoning variance under the city's new zoning code.

STRUCTURAL ENGINEERS: The 1957 convention of the Structural Engineers Association of California will be held October 31-November 1 at Hotel del Coronado near San Diego. One of the program highlights will be a panel discussion on costs and limitations of concrete construction methods.

✓ PA&B editor Robert E. Koehler will address the Structural Engineers of Oregon on the construction outlook at a meeting September 25 in Portland's Timber Topper.

PROFESSIONAL ENGINEERS: Dr. Joseph Kaplan of UCLA will be among the speakers at the convention of the Professional Engineers of Oregon in the Eugene Hotel, Eugene, October 18-19.

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...says Charles A. Hirschman, president of the California Pacific Construction Co., leading San Fernando Valley builders: "It would be unthinkable to build a home without concealed wiring and telephone outlets in the rooms which are used most."

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• **Gladding, McBean & Co.** of San Francisco has appointed the following 11 distributors in 12 northern California locations: American Distributing Co., Modesto; N. P. Bush Building Materials Co., Richmond; Construction Supply Co., Santa Rosa; H. W. Gentry Co., Walnut Creek; George C. Jacobs Co., Eureka; McPhail's, San Rafael; Morgan Bros., Patios, San Leandro; Provenzano Bros., Santa Cruz and Santa Clara; San Joaquin Materials Co., Fresno; Trico Building Supplies, San Carlos; and McLeod & Clark Corp., San Francisco.

• **The Trane Co.** has promoted Robert W. Thomas, member of the firm's Los Angeles office since 1950, to manager of its New York office.

• **Wiley-Bayley, Inc.,** Northwest distributor of Styrofoam, has moved to larger warehouse facilities at 3310 Meridian, Seattle, and has appointed W. Ken Brown as sales engineer for Oregon-southwest Washington area.

• **O'Keefe & Merritt Co.** of Los Angeles has appointed Edward Derenia as national manager of its built-in division. Succeeding him as manager of the northern California division will be Edward Sabo who has been acting as field manager.

• **Clingan & Fortier, Inc.,** an affiliate of Reynolds Metals Co. and one of the West's major distributors of the company's aluminum mill and building products, has changed its name to Reynolds Aluminum Supply Co. The firm was established in San Francisco in 1945 and now has 11 warehouses.

• **Kaiser Gypsum Co.** of Oakland has named George B. Kirk, formerly field service manager, to the post of director of research and development succeeding the late M. C. Dailey.

• **Steelcraft Manufacturing Co.** has appointed Richard C. Grinnell of Los Altos, Calif., as western sales representative.

• **Chase Brass and Copper Co.** has promoted Kenneth G. Downing from outside salesman in Kansas City, Mo., to resident salesman in San Francisco, replacing Eugene J. Wasilewski who has returned to the home office in Waterbury, Conn., as a specialist on copper roofing and allied products.

• **Hexcel Products, Inc.,** will build a $1 million plant for the manufacture of structural honeycomb core in the new Port of Oakland Industrial Park.

• **Fenestra, Inc.,** of Detroit has appointed Nelson C. Gibson, formerly western region sales engineer headquartering in its Seattle office, as

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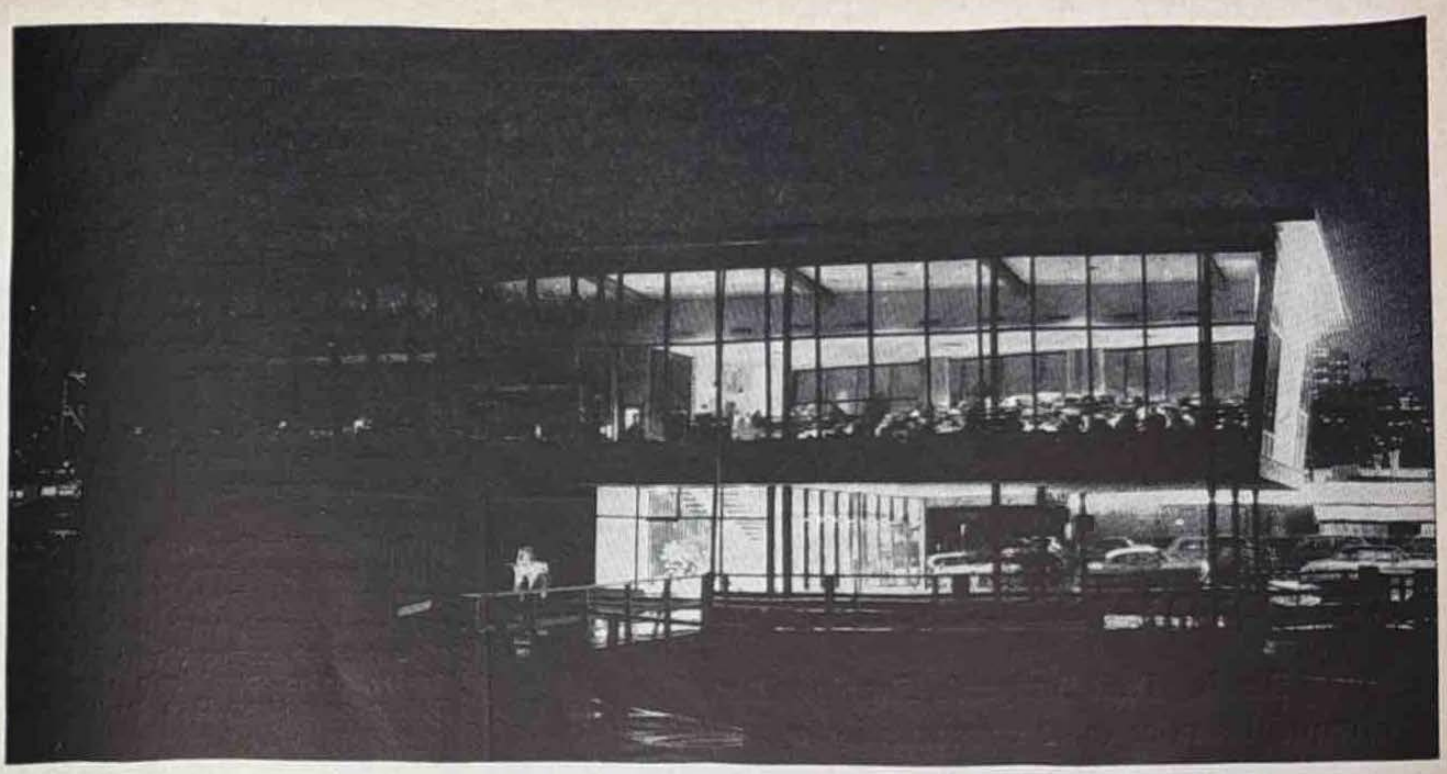
Wiley-Bayley Inc.

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SCHOOL FOR SALESMEN

Building materials and equipment manufacturers will have an opportunity this fall of enrolling their salesmen in a new training course aimed at improving their effectiveness in selling and servicing the architectural profession. The first schools will be held in the East, but negotiations are underway for a subsequent training course to be given in California. Further details may be obtained from Robert W. Hurst, executive assistant, Producers' Council, Inc., 2029 K St., N. W., Washington, 6, D.C.



Steel, glass, and redwood on *Fisherman's Wharf*

Architect: Hewitt C. Wells; *structural engineers:* John J. Gould and H. J. Degenkolb; *steel fabricator:* Schrader Iron Works; *contractor:* Charles O. Jones.





Designed with most of its steelwork exposed, the Franciscan Restaurant strikes a bold and appealing note in a colorful setting on San Francisco's waterfront. With accommodations for nearly 200 patrons on three levels, a fine view can be had in nearly all directions from the glass-enclosed upper floor.

Bethlehem eight-inch wide flange columns are bolted to foundation plates imbedded in the concrete mat which is seated above the water on new piling. The use of structural steel for both functional and decorative purposes allows maximum use of floor space and conveys an impression of both rigidity and lightness.

A floating stairway, fabricated by welding channels and plate, connects the glass-enclosed entrance on the ground floor to the upper level. Redwood planking adds a contrasting touch to both interior and exterior.

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Sales offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

BETHLEHEM PACIFIC

BETHLEHEM STEEL

chief sales engineer for the building panel division. Fenestra has purchased all the outstanding common stock of Davidson Enamel Products, Inc., of Lima, Ohio.

• **The Mosaic Tile Co.** has set up a marketing department for its West Coast division, with Carl von Buelow in charge.

• **Weber Showcase and Fixture Co., Inc.,** of Los Angeles has appointed vice president E. O. Stevenson to head up sales for all divisions and to become assistant general manager of the firm's Grand Rapids, Mich., plant.

• **Aluminum Company of America** has announced a $10 million expansion of its plant at Wenatchee, Wash.

• **Pabco Paint Division** of Fibreboard Paper Products Corp. has promoted John A. Elliott to sales manager of its southern district with headquarters in South Gate, Calif.

• **Standard Pressed Steel Co.** will construct a $5 million, one-story plant employing about 500 persons in Santa Ana, Calif. Completion date has been set for early 1958.

• **Empire Building Materials Co.** of Portland has been appointed distributor of Blok-Joint, a rubber control joint for masonry walls, in Oregon and southwestern Washington.

• **Potlatch Forests, Inc.,** of Lewiston, Idaho is now manufacturing glued laminated 2x4 lumber.

• **The Payne Co.** of Monrovia, Calif., has appointed Owen McComas as general sales manager.

• **Radiant Heating and Cooling Institute** has been organized in Suite 318, 5657 Wilshire Blvd., Los Angeles (WEbster 4-1635), with these officers: George Rusher, president; Harry W. Taylor, vice president; Leroy C. Bishop, secretary; Don Smith, treasurer.

• **W. P. Fuller & Co.** has opened a general research laboratory in South San Francisco, which will serve as headquarters for three other company laboratories on the West Coast.

• **Rudd Manufacturing Co.** has appointed H. R. Basford Co. of San Francisco as distributor of its automatic gas water heaters in Oregon, Washington and parts of Montana and Idaho, in addition to a previous assignment which includes California.

• **Douglas Fir Plywood Association** has named Earl Pennington as field promotion manager of its newly established regional headquarters in San Francisco, serving northern California and Nevada.

• **Soule Steel Co.** of San Francisco has promoted L. M. Elmburg from Los Angeles district engineer and assistant sales manager to chief engineer for all company products.

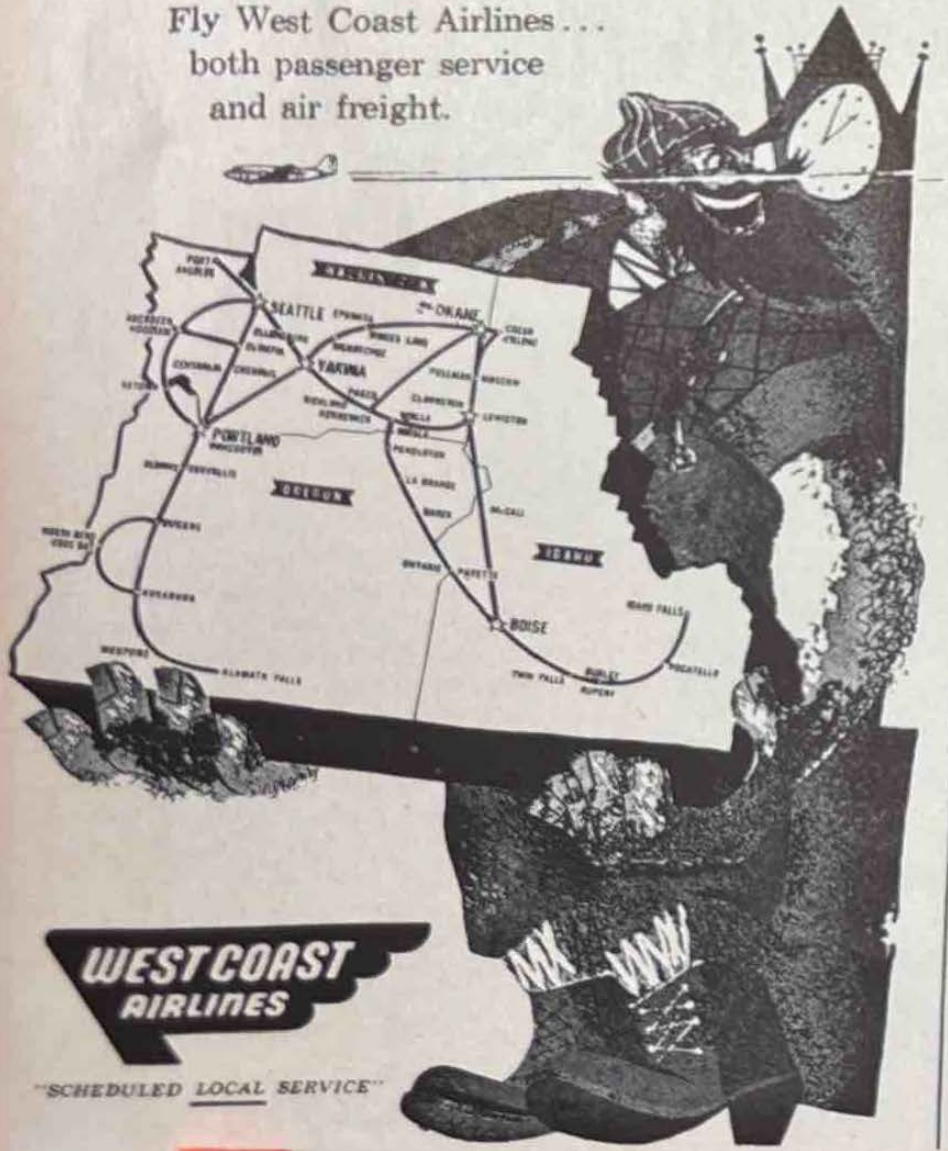
• **Dewey and Almy Chemical Co.** of San Leandro, Calif., has appointed Richard G. Allen as sales engineer for its construction specialty products in the western division.

• **Charles W. Lerch & Associates,** elevator consulting engineers, have named Vernon Zurick as manager of their newly opened San Francisco office in the Russ Building.

• **Armstrong Cork Co.** has announced these appointments: C. B. Sauer assistant district manager of the Los

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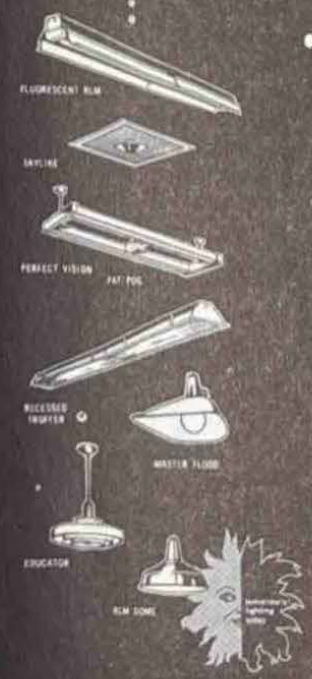
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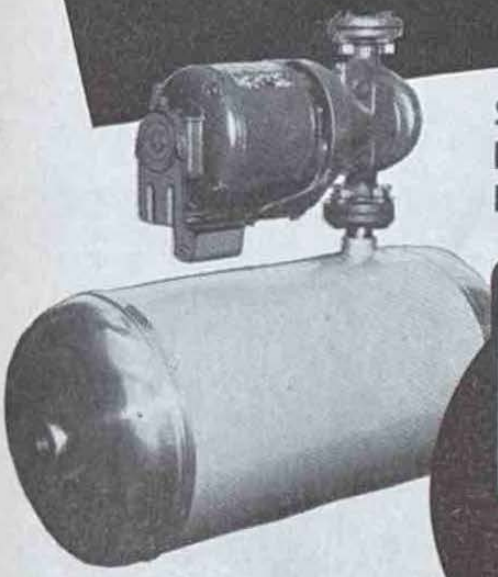
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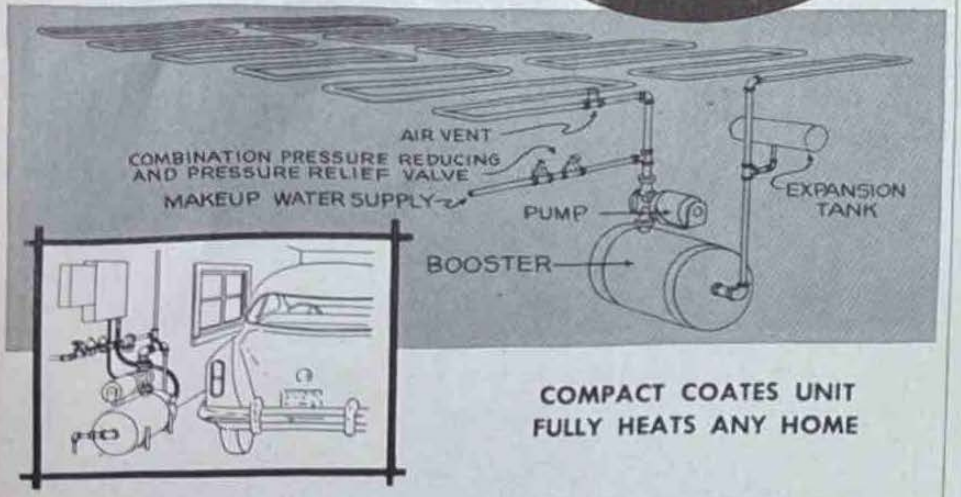
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Angeles office; and G. S. Griffith as resident architectural-builder consultant representative in Portland.

• **Triangle Steel Co.** of Los Angeles has promoted general manager James McLaughlin to vice president.

• **Western Reinforcing Steel Fabricators Association** at its first annual membership meeting in San Francisco elected these officers: George L. Cobb, Soule Steel Co., San Francisco, president; Leonard Ross, Blue Diamond Corp., South Alameda, Calif., vice president; Stephen G. Herrick, Herrick Iron Works, Oakland, secretary- treasurer. Directors, in addition to the officers, are William D. Roberts, Union Iron Works, Spokane; Henry Emmrich, Judson-Pacific-Murphy Corp., Emeryville, Calif.; Ray E. Copeland, Southwest Steel Rolling Mills, Los Angeles.

The new association is headquartered at 1322 Webster St., Oakland, under the managership of F. S. Clough.

Publicity for architect's office (Cont'd from p. 20)

The exceptionally high quality of the editorial staffs of the architectural press in both national and regional publications is of particular value to the profession. The same can be said of consumer and general interest publications which have a concern for the architect's work.

The architect who submits material has certain obligations to the publication. At all times he must be honest. Integrity is essential to good relations. Do not include any unverified information, no matter how minute it may seem. A simple error of brand name may be embarrassing for the publication and may involve complications on the business side. If the publication cannot live happily with its advertisers, it cannot survive to publish the architectural work in an objective manner. By helping the editor maintain the highest standards of accuracy, the architect also helps maintain a publication of independence.

Another obligation of the architect who works with an editor is that of respect for the publication's ideas. No one outside an editorial office has the right to announce what is intended for publication. The architect with whom the magazine works for advance material should not divulge such confidence until the editor releases the information.

Based on an address given before Seattle area architects August 26 at a meeting sponsored by Pacific Architect and Builder

Construction News Bulletin

Vol. 63—No. 20 (PA&B) News Section of Pacific Architect and Builder September 21, 1957

Dorothy McCormick.....News Editor Win Romtvedt.....Portland News Manager
Sandra Phillips.....News Staff Dorene Davis.....News Staff
Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 0285

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

OREGON

★FIRE STATION PAINTING—Albany, Ore.

Ray Cegavske of Albany was awarded the contract on a low bid of $1,090 by Arthur R. Johnson, city recorder, City Hall, Albany, for painting the exterior of the fire station in Albany. Bids opened August 14.
SP 9-5. Previous report 8-9

● POST OFFICE REPAIRS— Baker, Ore.

Bids to be opened 3 p.m., P.S.T., September 30, by General Services Administration, Room 126, Federal Office Bldg., Seattle, for improvements and repairs to the U.S. Post Office, Dewey and Auburn Ave., Baker, Ore.; SEA-828. Plans with Design and Construction Division, 909 1st Ave., Seattle.
DM 9-18

GRADE SCHOOL— Beaverton, Ore.

Bond election for $415,000 to be held September 24 by Beaverton School District No. 48, Washington County, Errol Hassell, superintendent, C.E. Mason School, 1250 N.E. Center St., Beaverton, for construction of the first unit of a new grade school on a site northwest of Vista Hills and southwest of Ridgewood. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. First unit will include at least 10 classrooms and auxiliary rooms.
WB 9-18

HOUSE TRAILER PLANT— Bend, Ore.

Details in connection with construction of a house trailer manufacturing plant in Bend have been agreed upon with Cletus Henslee, trailer manufacturer, and members of the Bend Chamber of Commerce. The chamber of commerce will sponsor an expansion fund of $50,000. In addition, a 160'x250' building will be erected by local persons. Several groups are said to be willing to undertake the construction, and three sites are under consideration. It is hoped the building can be completed in about three months.
SE 9-13

★SCHOOL ADDITION, ALTERATIONS— Blue River, Ore.

Award announced by Blue River School District, Blue River, for construction of a 48'x12' frame addition and for alterations to the high school. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene. Bids opened September 9. AWARD: Cascade Contractors, Box 774, Eugene, $9,582.
OTHER LOW BIDS: J. M. Steinmuller, Jr., Box 3302, Eugene, $9,776; David Carmiencke, 425 Harlow Road, Eugene, $10,442.
DW 9-13. Previous report 9-5

APARTMENT REMODELING— Bonanza, Ore.

A building permit has been issued to Clyde Wooten, owner of Puddy Apartments, Bonanza, for construction of second bedroom additions to two of the four apartments in the building.
ZZ 9-14

● HIGH SCHOOL— Brownsville, Ore.

Plans will be available about the first week in October and bids will be opened 8 p.m., October 29, by Central Linn County High School District No. 552-C, L. Emmett A. MacKay, superintendent, Brownsville, for construction of a 65,000 sq. ft. brick and laminated beam and arch high school at Brownsville. Plans nearly completed by Dougan & Heims, architects, 401 Royal Bldg., Portland. The new district is composed of Shedd, Brownsville and Halsey districts, located near Albany. Bids for equipment, including bleachers, backstops and furniture, will be opened at the same time.

School will consist of interconnected units, and will include regular classrooms, junior high wing, special classrooms, gym, cafetorium, and shops. Laminated beams and arches; SCR brick walls; cemented wood fibre roof decking; aluminum sash; bonded rofs; maple flooring in gym; resident flooring throughout; considerable cabinet work in place of partitions; considerable perforated hardboard wall finish; oil-fired, steam heating; high velocity ventilating system; fluorescent lighting.
WB 9-17. Previous report 6-19
(School Projects, Albany, Ore.)

★RESIDENCE— Chiloquin, Ore.

Contract negotiated with Jacob Disch & Son, Lakeshore, Ore., by Mr. and Mrs. Joe Bettles of Chiloquin for construction of pumice brick and frame, 1,400 sq. ft., residence on Lakeshore Highway west of Chiloquin.
ZZ 9-17

CITY HALL— Eugene, Ore.
(Estimated cost $1,000,000)

The Eugene City Finance Committee has approved steps toward erection of a new city hall in Eugene. The committee has voted to recommend to the full city council that preliminary steps be taken including selection of a site. No indication has been made as to what architectural firm may be selected to prepare the plans. The city hall might be included in the park space as part of a municipal center group.
SC 9-14

ADDITIONAL FAMILY HOUSING— Kingsley Field, Ore.
(Estimated cost $1,000,000)

Plans have been completed by Howard R. Perrin, architect, 1121 Main St., Klamath Falls, for an additional 70 housing units of standard construction at Kingsley Field, Klamath Falls, Ore. The units will be similar to the 220 units on which bids opened September 5. Bids will be called, after Senate Armed Forces Committee approval, by U.S. Air Force, Purchasing and Contracting Office, Headquarters Bldg., Kingsley Field, Klamath Falls.
ZZ 9-11

■ SCHOOL ADDITION—Klamath Falls, Ore.
(Estimated cost $65,000)

Planholders announced for bid opening 8 p.m., September 23, by Board of Trustees, Klamath Falls School District No. 1, Klamath Falls, Ore., for construction of a one-story, 5,600 sq. ft. brick veneer addition to the Joseph Conger Elementary School at California and Delta streets in Klamath Falls. Plans with Morrison and Howard, 203 Williams Bldg., Klamath Falls, $25 deposit.

Planholders: Burkhard Construction Co., 4867 Harlan Drice, Klamath Falls; Brosterhous Construction Co., 1541 Elm St., Klamath Falls; Duncan Construction Co., P.O. Box 1088, Klamath Falls; Deller Construction Co., 292 Roan Drive, Eugene, Ore.; Browning-Randolph Co., 520 Ben Vista Ave., Salem, Ore.
ZZ 9-17. Previonus report 9-4

★EXPERIMENTAL AREA BUILDING— Klamath Falls, Ore.
(Funds budgeted $35,000)

Award by Klamath County Court, Courthouse, Klamath Falls, for construction of a one-story, 80'x37' pumice block office building at Klamath Experimental Area seven mi. south of Klamath Falls. Plans by Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls. AWARD: Burkhard Construction Co., 4867 Harlan Drive, Klamath Falls, $32,722 ($32,000 basic plus $671 alternate for vinyl-asbestos flooring and $62 alternate for aluminum sash). OTHER BIDS: Duncan Construction Co., Box 1088, Klamath Falls, $32,800 (basic), $820 (flooring), $56 (sash); Brosterhouse Construction Co., 1541 Elm, Klamath Falls, $33,081, $671, $62. Bids were opened September 13.
ZZ 9-17. Previous report 9-4

● SCHOOL ADDITION— Lacomb, Ore.

Bids will be opened 8 p.m., September 30, by School District No. 73-C, Linn County, Roxanna M. Seits, clerk, Lacomb Elementary School, Lacomb, for construction of 40'x60', wood frame multipurpose room addition to the school. Plans with John K. Smeed, architect, 8313 S.W. Barbur Blvd., Portland. $30 deposit. Bid guarantee 5%.

Concrete floor; frame walls; painted and stained siding; deck purlins, glued-laminated beams and built-up roofing; prefaced hardboard wainscots; mechanical exhausts, incandescent lighting.
WB 9-13

● EXTERIOR PAINTING— La Grande, Ore.

Bids will be opened 3 p.m., September 25, by General Service Administration, room 126, Federal Bldg., 909 1st Ave., Seattle, for exterior painting at the U.S. Post Office in

La Grande; Proj. No. SEA-558. Specifications with above office. SP 9-14

RESTAURANT, APARTMENT UNITS—
Madras, Ore.

Reconstruction underway, under the supervision of Construction Superintendent Jim Duncan, on the 56'x73' frame restaurant building, known as Sonny's Steak House, in Madras, for owner Sonny Endres of Madras. The restaurant building was razed by fire August 7. Building will have semi-flat insulated roof; covered terrace; knotty pine and white fir paneling; radiant floor heating system. Plans by Kenneth Wollenweber, architect, 765 Park East, Eugene. Also planned is a 40'x70' three-family apartment building at the east end of the Steak House site. SC 9-13

PULP AND PAPER PLANT—
Mid-Columbia Area, Ore.

A preliminary analysis by Sandwell & Co., Inc., 206 6th Ave. N., Seattle, indicates that sufficient material is available in the Mid-Columbia area to support a pulp and paper development. Cooperating agencies, including Wasco County, City of The Dalles, Port of The Dalles, Port of Hood River and Port of Cascade Locks, must decide whether to retain the Sandwell firm for further specific studies on supply and potential site for such a development. SC 9-17

★CLASSROOM UNIT, SHOP—Mill City, Ore.

Award to Hampton C. Platt, Box 27, Salem, $192,500 (base bid) by Linn County Union High School District No. 9-Jt, Mill City, for construction of a classroom unit and shop building at Mill City. Plans by Benjamin E. Cave, architect, 3240 Triangle Drive, Salem. DM 9-18. Previous report 9-12

★MEDICAL-DENTAL BUILDING—
Milwaukie, Ore.

Award to James S. Hickey, Inc., 523 S.E. Stark St., Portland, $136,987, by Dr. Russell Sweeney, owner, Milwaukie, for medical-dental building on Washington St. in Milwaukie. Plans by Scott & Payne, architects, 511 Builders Exchange Bldg., Portland. Construction will start immediately. WB 9-17. Previous report 8-24

SCHOOL CONSTRUCTION—Milwaukie, Ore.

Bond election for $595,000 will be held October 1 by Milwaukie School District No. 1, Clackamas County, Arwid W. Bertman, clerk, 2145 Monroe St., Milwaukie, for additional classrooms at Campbell and Ardenwald grade schools, six rooms at Ickes Junior High School, new grade school, and sites for the grade school and a future junior high school. WB 9-18

ICE PLANT— Newport, Ore.
(Estimated cost $100,000)

Plans announced by Point Adams Packing Co., Newport, for construction of an ice plant on a site adjoining the present plant in Newport. Construction will start next spring. SC 9-13

★ELECTRIC CO-OP ADDITION—
Oakridge, Ore.

Award announced by Lane Electric Co-op, Glen Sawyer, manager, 1715 Franklin Blvd., Eugene, for construction of a concrete block addition to the co-op's office in Oakridge. Plans by Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene. Bids opened September 9. AWARD: Adkins & Turner, 850 Oriole St., Eugene, $3,721. OTHER LOW BIDS: Maurice Holst, Box 171, Oakridge, $2,547 (asked to be relieved from contract).; Cascade Contractors, Box 774, Eugene, $9,880. DW 9-13. Previous report 9-5

▲MEDICAL CLINIC ADDITION—
Portland, Ore.

Bids received in office of Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland, for a three-story, 42'x104' reinforced concrete addition to Medical Clinic, 4212 N.E. Broadway, Portland. BIDDERS—GENERAL: Teeples & Thatcher, 8850 S.E. Otty, $241,900; E. E. Settergren, 3723 S.E. 21st Ave., $247,900; R. L. Greene, 3505 N.E. Broadway, $252,837; E. Carl Schiewe, 1024 N.E. Davis St., $254,794; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $258,000; Contractors, Inc., 1101 N.E. 21st Ave., $259,340; Blanchard Construction Co., 2546 S.W. Vista Ave., $286,700. HEATING AND VENTILATING: J. M. Harder Plumbing & Heating Co., 2148 N.E. Union Ave., $45,820; Kleanair Furnace Co., 5329 N.E. Sandy Blvd., $50,694. All of Portland. Bids opened September 13.
WB 9-17. Previous report 9-10

OSTEOPATHIC HOSPITAL—Portland, Ore.

Plans are expected to be released to a select list of bidders this week by Scott & Paqne, architects, 511 Builders Exchange Bldg., Portland, for construction of one-story and daylight basement, reinforced concrete hospital at S.E. 28th Ave. and Steele St., Portland, for Portland Osteopathic Hospital, Robert Chambers, business manager, 616 N.W. 18th Ave. Bid call is pending approval of revised scheme by public officials in San Francisco. The plan has been reduced in size in some areas.

Modified U-shaped structure, one five-acre site; facilities include surgery, radiology, maternity suite, kitchen, laundry. Open web structural joist system with metal deck; concrete roof and floor; aluminum window walls with porcelain enamel panels and some brick veneer on exterior; metal studs, lath and plaster interior partitions; battleship linoleum, asphalt tile, vinyl, conductive and ceramic tile flooring; some acoustical tile ceilings; oil-fired hot water heating system; separate air conditioning for surgical and obstetrical wings; incandescent lighting; emergency generator; service and passenger elevators; central oxygen system; nurses' call system; stainless or enamel-finish steel cabinets; built-up roofing. Assisting with plans with Fritz Klawa, electrical engineer, 1200 S.W. Stark St.; James G. Pierson, structural engineer, Concord Bldg., and W. Bruce Morrison, mechanical engineer, Cascade Bldg.
WB 9-17. Previous report 7-24

●■BUILDING ADDITION—Portland, Ore.

Bids will be opened 2 p. m., September 25, by Pacific Telephone & Telegraph Co., C. M. Twelves, chief engineer, 406 Lincoln Bldg., Portland, for construction of 55'x74' one-story and basement, reinforced concrete and masonly addition to ATlantic central office building at 2911 N.E. 24th Ave., Portland. Plans by Skidmore, Owings & Merrill, architects, 2040 S. W. Jefferson St., Portland. Select list of bidders.

Planholders: Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Henry M. Mason Co., 2206 N.W. Thurman St.; Dscar Wayman, 3125 N.W. Front Ave.; Andersen-Westfall & Co., Inc., 3427 N.E. Halsey St. All of Portland.
WB 9-17

★RECREATION CENTER (Site Clearing)—
Portland, Ore.

Award to John L. Jersey, Inc., 3647 S.E. 34th Ave., Portland, $9,850, by Portland Exposition-Recreation Commission, Carvel C. Linden, chairman, 623 Park Bldg., Portland, for razing buildings on three of the 22 acres in the Broadway-Steel Bridge site for the proposed Exposition-Recreation building.
WB 9-5. Previous report 8-30

★DORMITORIES (Site Work)—
Portland, Ore.

Award to Goodat Crane Service, 1735 S.E. Union Ave., Portland, $3,974, by Reed College, Eastmoreland, Portland, for rough grading in preparation for construction of four-building dormitory development at the college. Plans by Neil Farnham, Frank Shell and Charles Hoyt, architects, 4444 S.W. Corbett Ave., Portland. Bid call for dormitories will be issued about November.
WB 9-6. Previous report 8-24

BANK EXPANSION— Portland, Ore.

Two buildings at the S.E. corner of S.E. Washington St. and Grand Ave. have been acquired by the U.S. National Bank of Portland, E. C. Sammons, president, 321 S.W. 6th Ave., Portland, for expansion of the adjacent Citizens Branch Bank. Remodeling of the two buildings, one two- and one three-story, and drive-up windows and customer parking are planned. The bank will get possession of the 90'x100' property May 1, 1958. WB 9-7

★LOOKOUT TOWERS, HOUSES—
Portland, Ore.

Award to Lloyd Larsen, 4714 Old Pacific Highway, Vancouver, $4,682, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., room 207, Portland (P. O. Box 4137), for erecting 14'x14' lookout house with steel tower, including lightning protection, at Madison Butte, Umatilla National Forest. WB 9-17. Previous report 9-16

GRADE SCHOOL— Portland, Ore.

Bond election for $460,000 will be held September 24 by Russellville School District No. 40, Multnomah County, Frank C. Dempsey, clerk, 124 S.E. 102nd Ave., Portland, for construction of grade school on S.E. 117th Ave. between E. Burnside St. and S.E. Stark St. WB 9-17

CITY-COUNTY BUILDING—Portland, Ore.

A committee of two Multnomah County Commissioners and two Portland City Council members has been appointed to look into the advisability of acquiring the block between the Courthouse and City Hall, between S.W. 4th and 5th avenues, and Main and Madison streets, for a future city-county building. Representing the county are Commissioners M. James Gleason and Al Brown, and the city Commissioners Ormond R. Bean and Stanley W. Earl.

The Del E. Webb Construction Co., Phoenix, Ariz., recently indicated its interest in building a 14-story building for the county and city on a lease-purchase basis, but no decision on this plan has been announced.

HOUSING UNITS— Portland, Ore.

Plans underway by Don Byers, architect, 1620 S.E. Ankeny St., Portland, for 40 permanent, low-cost housing units in Columbia Villa Housing Project on N. Woolsey Ave., a few blocks north of Columbia Park. No date has been set by the Portland Housing Authority, C. S. McGill, executive director, 8920 N. Woolsey Ave., Portland, for a bid call. The houses will include 30 with three bedrooms and 10 with four bedrooms. They will replace temporary units at Parkside, across N. Burgard Ave. from the old Oregon Shipyard property. WB 9-12

★RE-ROOFING— Portland, Ore.

Award to D. & M. Builders Service, 6218 N.E. Columbia Blvd., $2,349, by city purchasing agent, 208 City Hall, Portland, for re-roofing and renewing flashings at St. John Community Center.
WB 9-12. Previous report 8-20

★CHAIRS— Portland, Ore.

Award to J. K. Gill Co., 408 S.W. 5th Ave., Portland, $3,172, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing 54 swivel armchairs for Circuit Court. WB 9-12. Previous report 8-29

MEDICAL-DENTAL BUILDING—
Portland, Ore.
(Estimated cost, $1,800,000)

Construction is being resumed by Reimers & Jolivette, general contractors, Builders Exchange Bldg., Portland, for the remodeling and expansion of the 9-story former Eastern Outfitting Co. building at S.W. Washington St. and 10th Ave., Portland, for Ben Dierks, owner, Grants Pass. Plans by Sundeleaf & Hagestad, architects, 202 Portland Trust Bldg., Portland.

The existing structure was stripped to the steel framework last winter; four floors and penthouse will be added; building will be reconstructed for medical-dental offices. Double-paned glass exterior; aluminum trim; blue spandrel panels; steel stud and plaster interior partitions; interior finishes to suit tenants; three Otis high speed automatic elevators; full air conditioning from central heating; individual thermostatic control in each office; public restaurant on ground floor. The architects are starting preliminary sketches for a 300-car parking garage, to be built on 100'x100' site of existing Blue Mouse Theater at 11th and Washington.

The following Portland firms have been awarded sub-contracts on the project: PLUMBING—Gaittehs Plumbing & Heating Service, 4306 N. Williams Ave. HEATING, VENTILATING—A. G. Rushlight & Co., 3900 N.W. St. Helens Road. WIRING, FIXTURES—Lord Electric Co., 535 S.W. Clay St. ELEVATORS—Otis Elevator Co., 230 N.W. 10th Ave. MILLWORK—Builders Wood Products, Inc., 8018 S.E. 17th Ave. STRUCTURAL STEEL—Poole, McGonigle & Dick, 6330 N.E. Halsey St. STRUCTURAL STEEL ERECTION—Steel Construction Co. of Oregon, 5300 N.W. Front Ave. GRANITE, MARBLE—Lutz Marble Co., 1421 S.W. Broadway. ROOFING, SHEET METAL—J. C. Bayer, Inc., 14 S.W. Market St. MISC., ORNAMENTAL IRON—Portland Wire & Iron Works, 4644 S.E. 17th Ave. METAL DOORS, HOLLOW METAL—Grand Metal Products Corp., 2340 S.E. Gladstone St. ARCHITECTURAL ALUMINUM—Losli Sheet Metal Works, 115 S.W. Montgomery St. LATH AND PLASTER—Billings & Cronn, 6119 N.E. Sacramento St. CERAMIC TILE—Multnomah Tile & Mantel Co., 302 N. Broadway. TERRAZZO—J. A. Wiley Co., 2603 S.E. Grand Ave. FLOOR COVERING—Hollywood Floors, 1845 N.E. 41st Ave. ACOUSTICAL CEILINGS—Johnson Acoustical & Supply Co., 1219 S.E. Lafayette. INSULATION—Armstrong Cork Co., 2356 N.W. 21st Place. GLASS, GLAZING—W. P. Fuller & Co., 2181 N.W. Nicolai St. HARDWARE—Builders Hardware & Supply Co., Inc., 515 S.W. Pine St. PAINTING—Wesley A. Sundeleaf, 8018 S.E. 17th Ave. METAL TOILET STALLS—W. H. Kress Co., Concord Bldg. WB 9-13

● METAL BUILDINGS— Portland, Ore.

Bids will be opened 11 a.m., September 26, by U.S. Forest Service, regional supply officer, room 114, 729 N.E. Oregon St., Portland, for furnishing 13 small prefabricated metal buildings, complete with structural framing, roofing, siding, anchor bolts, door, hardware, ventilating louver, etc., fob. Bend, Pendleton, Medford, John Day, Burns, and Lakeview, all in Oregon; and Concrete, Twisp, Chelan, Amboy, and Shelton, all in Washington; Bid No. 119. Erection not in contract. WB 9-13

●■ PAROCHIAL SCHOOL—Portland, Ore.

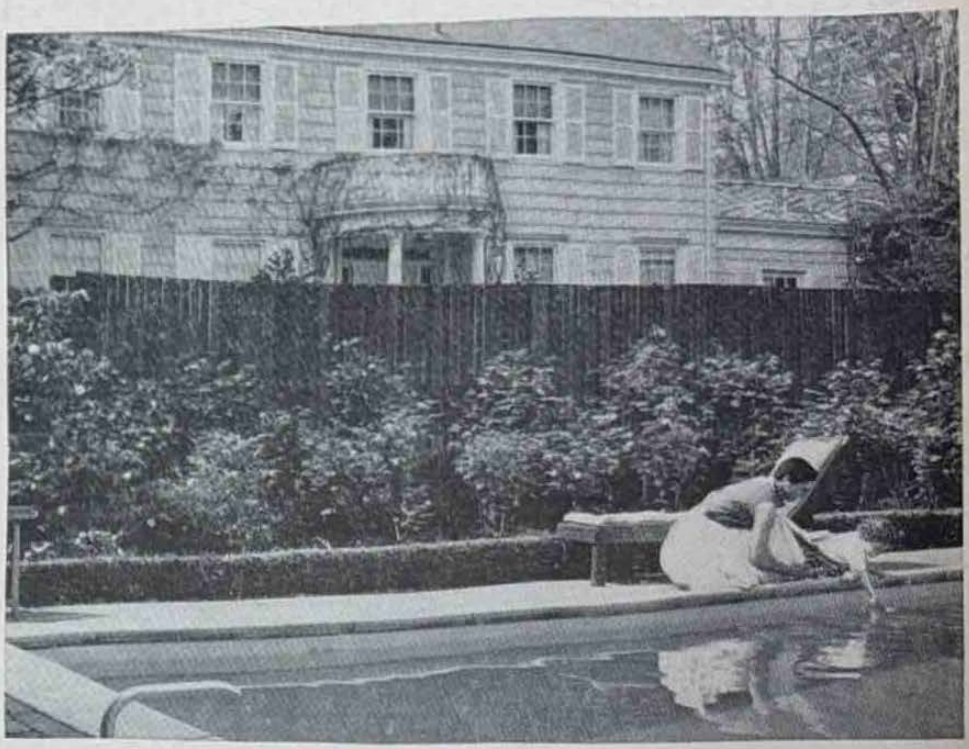
Bids will be opened 2 p.m., October 1, in office of Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland, for one-story with partial basement parochial school building for Trinity Lutheran Church, Rev. Eric Eichmann, pastor, 2928 N.E. Dunkley St. Select list of general, mechanical and electrical bidders.

Planholders—GENERAL: Blanchard Construction Co., 2546 S.W. Vista Ave.; Robertson, Hay & Wallace, 1801 S.E. Grand St.; Beebe Construction Co., 2134 N. Flint Ave.; E. Carl Schiewe, 1024 N.E. Davis St.; James S. Hickey, Inc., 523 S.E. Stark St.; Jones-Balgemann Builders, 1839 N.E. Couch St. MECHANICAL: Harder Plumbing & Heating Co., 2148 N.E. Union Ave.; Buchanan Co., 1518 N.E. Killingsworth St.; Lord Bros., 9233 N. Calvert Ave.; Widmer Plumbing & Heating Co., 900 S.E. Sandy Blvd.; Vengelen & Vincent, 2400 E. Burnside St.; Urban Plumbing & Heating Co., 2904 S.W. 1st Ave.; Northwest Plumbing & Heating Co., 3024 N.E. Alberta St. ELECTRICAL: Dimitre Electric Co., 133 S.W. 2nd Ave.; Ace Electric Co., 3525 N.E. Broadway Ave.; Harold Electric Co., 1701 S.W. Jefferson St.; Emory & Bohm Electric Co., 516 N.W. 14th Ave.; McCoy Electric Co., 2002 S.E. Clinton St.; Jaggar-Sroufe Co., 939 S.W. 10th Ave.; Broadway Electric Co., 1818 S.E. 7th Ave. Of Portland.

Site is N.E. 55th Ave. and Killingsworth St. Building will include six classrooms, combination gymnasium and auditorium (for temporary use as church), church and principal's offices, toilet rooms, dressing room, boiler room, and Sunday school rooms in basement. Frame construction of brick frame with brick veneer; aluminum sash; glued-laminated beams with tongue and groove decking, 1" insulation and built-up roofing; auditorium will have concrete block main walls and glued laminated arches; ⅝" gypsum board wall finish; acoustical tile ceilings; concrete floors; asphalt tile floor covering with rubber base; maple floor in

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gym; ceramic tile floors and wainscots in toilet rooms; hot water boiler with unit ventilators in classrooms and some hot water baseboard units; site grading; blacktopped parking area; septic tank and field; most cabinet work to be done by owner.
WB 9-18. Previous report 12-15

★**SERVICE CENTER BUILDING— Prineville, Ore.**

Award to DeGree Construction Co., 1820 Awbrey Road, Bend, approximately $90,000, by Pacific Power & Light Co., Paul B. McKee, president, Public Service Bldg., Portland, for construction of 77'x72', one-story, concrete service center building at N. Court and 4th streets. Plans by Sundeleaf & Hagestad, architects, Portland Trust Bldg., Portland. Bids opened August 14.
WB 9-17. Previous report 8-8

PLYWOOD PLANT— Roseburg, Ore.

Construction of a new plywood plant at Roseburg is included in the $10,000,000 the United States Plywood Corp., New York, plans to spend during the next fiscal year. The firm also plans the addition of pulp and paper facilities to two West Coast plants before the year ends April 30, 1958. SC 9-17

▲**RANGER RESIDENCES— Roseburg, Ore.**

Bids received by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for construction of two ranger station residences, single-story, 60'x30', and 50'x40', frame construction, at Layng Creek Ranger Station, Lane County, and at Tiller Ranger Station, Douglas County. BIDDERS: Robert Curtis, 434 N.E. Cummings, Roseburg, (Layng $15,846, (Tiller) $21,658, (total) $37,504; James & Streitzke, Roseburg, $18,790, $19,918, $38,708; Rogue Valley Construction Co., Roseburg, no bid, $19,546; Hampton C. Platt, Box 27, Salem, $22,000, $22,000, $44,000. Bids opened September 11.
WB 9-13. Previous report 8-30

CORRECTIONAL INSTITUTION— Salem, Ore.

The state emergency board will be requested by Oregon State Board of Control, State Capitol Bldg., Salem, to allocate $731,000 from the emergency fund to cover the difference between the low bid ($2,684,112) and the amount of money available ($2,500,000) for construction of the first unit of the correctional institution to be located on a 10-acre site five mi. southeast of Salem. By accepting some alternates, the board of control reduced the cost of the proposed structure so that $731,000 will be a sufficient emergency appropriation.
SC 9-14. Previous report 9-5

★**STATE OFFICE BUILDING REPAIRS— Salem, Ore.**

Award to Erwin Batterman, 147 S. Commercial, Salem, $136,860, by William C. Ryan, secretary, Oregon State Board of Control, 124 State Capitol Bldg., Salem, for structural repairs, including floor rehabilitation and rewiring, for the State Capitol Bldg. Plans by William I. Williams, architect, 1390 N. Capitol, Salem. LB 9-18. Previous report 9-4

★**RESIDENCE— Springfield, Ore.**

Award to Hal Bailey, 919 Laurelhurst Drive, Eugene, $17,978, by owner Wayne Nysten, c/o architect Donald A. Lutes, U. S. National Bank Bldg., Springfield, for construction of a wood frame five-bedroom residence on N. 58th St. in Springfield.
DW 9-12. Previous report 9-5

■ **SCHOOL ADDITION— Toledo, Ore.**

Additional planholders announced for additions to Cannon School, northeast of Toledo, for use as high school. Bids will be opened 11 a.m., September 26, by Lincoln County School District, M. C. Huff, superintendent's office, County Court House, Newport. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Additional planholders: Sterner Construction Co., 13845 S.E. Rhine St., Portland; E. E. Batterman, 147 N. Commercial St., Salem; Todd Building Co., P. O. Box 27, Roseburg; Todd Building Co., P. O. Box 27, Roseburg; Floyd Grubb, 1305 S. 20th St., Salem.
WB 9-18. Previous report 9-12

● **RANGER RESIDENCES— Unity, Halfway, Ore.**

Bids will be opened 2 p.m., P.S.T., October 1, by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for construction of Unity and Halfway ranger station residences, one-story frame structures, 50'x40' and 64'x30', Wallowa-Whitman National Forest, Baker County, Ore.; Bid No. 120. Plans with supply officer or with Forest Supervisor, Post Office Bldg., Baker.
WB 9-17

● **COTTAGE— Warm Springs, Ore.**

Bids will be opened 2 p.m., October 10, by Bureau of Indian Affairs in the Portland Area Office, 1101 N.E. Lloyd Blvd., Portland, for construction of a three-bedroom cottage at Warm Springs. Plans with Don C. Foster at the above Portland address. Certified check or cashier's check 5%. The structure is to be built on the site of the Indian School at Warm Springs, about 104 mi. southeast of Portland via U. S. Highway No. 26. Design on this cottage is of a different design than that bid on September 5. No award will be made on the latter.
DM 9-18

▲**SHOP BUILDING— Winston, Ore.**

Bids were rejected by Douglas County School District No. 116, Winston, for construction of a prefabricated metal L-shaped shop building at Douglas High School in Winston. Plans by Lyle F. Glenn, architect, 309 Pacific Bldg., Roseburg. Bids opened September 11. LB 9-18. Previous report 9-5

MacLAREN SCHOOL COMPLETION— Woodburn, Ore.

Bid opening postponed indefinitely from September 24 by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem, for one-story reinforced concrete addition of three units to MacLaren School for Boys near Woodburn. Plans by Whitney, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland. The project is postponed until a new superintendent has been appointed, as some of the applicants are opposed to the type of units.
WB 9-17. Previous report 9-6

WASHINGTON

HOSPITAL CONSTRUCTION— Washington

Allocations of $1,117,227 in federal Hill-Burton funds to assist five hospital and health department construction projects in Washington have been recommended by the executive committee of Washington Hospital Advisory Council. The five were those with highest priority among the 15 projects for which funds were sought. The allocations will be given final approval by Dr. Bernard Bucove, state health director. Projects approved, and funds allocated, were: Grays Harbor Community Hospital, Aberdeen-Hoquiam, for replacement of hospital, $680,000; Okanogan-Douglas County Hospital District No. 1, Brewster, replacement of hospital, $210,985; Good Samaritan Hospital, Puyallup, remodeling and addition, $53,800; Yakima Valley Memorial Hospital, Yakima, addition, $35,000; Tacoma-Pierce County Health Department, Tacoma, completion of two floors of County-City Bldg. for Health Department use, $137,442. SC 9-17. Previous report 8-28

▲**BANK BUILDING— Aberdeen, Wash.**

Bids received by First Federal Savings & Loan Association, Finch Bldg., Aberdeen, for construction of a two-story, 130'x50', steel beam and column office building at the northwest corner of Broadway and Market in Aberdeen. Plans by Robert Street, architect, Lafayette Bldg., Aberdeen. Bids opened September 9. LOW BIDS: Fraser Construction Co., 314 W. Wishkah, Aberdeen, $168,330; Ed Lundgren, 809 N. K St., Aberdeen, $169,380; John Peterson, 205 4th St., Hoquiam, $169,543. SC 9-13. Previous report 8-31

OIL REFINERY— Anacortes, Wash.

Contracts will not be let until late September or early October by Bechtel Corp., general contractors, 220 Bush St., San Francisco, Calif., on construction of a 5,600' pier on the northwest tip of March's Point, an administration building, laboratory, utility building and marine warehouse at the new Texas Oil Co. refinery now under construction near Anacortes. Bids for the construction are being accepted until September 13.
ET 9-10. Previous report 8-31

CLUBHOUSE— Anacortes, Wash.

Plans are nearly complete by Don L. McKee, architect, 915 5th, Anacortes, for a new clubhouse for the Yacht Club to be located on a 150'x360' lot in the fill area at Cap Sante waterway. A building is being moved onto the site now, for use as temporary clubhouse until financing is completed and construction of the new club is possible.
ET 9-11

● **SCHOOL ADDITIONS— Battleground, Wash.**

Bids will be opened 8 p.m., October 7, by School District No. 119, Clark County, Earl W. Jackson, clerk, Superintendent's Office, Battleground, for alterations and three wood frame additions to the shop building (Slevoire Hall) at Battleground High School. Plans with Freeman, Hayslip, Tuft & Hewlett, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Additions are 80'x800' area with auto shop, two adjacent classrooms, storage and toilets; 48'x20' area with classroom and adjacent perimeter corridor; 24'x39' addition to present wood working shop. Concrete slab floors; brick veneer exterior; wood sash; composition and composition shingle roofing; stud framing with concrete blocks; mostly exposed concrete floors; some asphalt tile flooring; exposed block, plywood and gypsum board interior wall finishes; acoustical tile; gypsum board and plywood ceilings; incandescent lighting; forced air heating and unit heaters from existing system; exhaust systems; heavy power loads. Alterations include cutting new window openings through concrete block and brick veneer; finishes similar to new work, except some tongue and groove fir ceilings and some plaster walls. WB 9-17

★**DEPARTMENT STORE— Bellevue, Wash.**

Contract negotiated with Hainsworth Construction Co., 3028 Western Ave., Seattle, by Bellevue Properties, 1603 76th Ave. N.E., Bellevue, for construction of a 40,000 sq. ft. two-story steel frame department store west of the A & P market in Bellevue Shopping Square. J. C. Penney Co., Inc., will lease the building. Plans by James Klontz & Associates, architects, Dexter Horton Bldg., Seattle.
SP 9-13. Previous report 9-10

★**LUTHERAN CHURCH— Bellevue, Wash.**

Award to Merle P. Songstad, J. S. Ditty Bldg., Bellevue, $44,577, by St. Luke's Lutheran Church, ELC, John Larsgaard, pastor, 10250 N.E. 30th Place, Bellevue, for construction of a one-story 4,500 sq. ft. Lutheran church on 104th N.E. between Bellevue and Kirkland. Plans by Grant, Copeland & Chervenak, architects, 420 E. Howell, Seattle.
SP 9-13. Previous report 8-30

★**CONGREGATIONAL CHURCH— Bellevue, Wash.**

Award to Herbert U. Taylor, 11239 Arroyo Beach Place S.W., Seattle, $88,366, by Eastgate Congregational Church, Frank Kelsey, pastor, 15350 S.E. 45th, Bellevue, for construction of the first unit of a three-unit plant for the church on Farmer Road across the street from Eastgate Elementary School. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.
SP 9-13. Previous report 8-21

★**PHANTOM LAKE SCHOOL (Phase 2)— Bellevue, Wash.**

Awards announced by Bellevue School District No. 405, George B. Brain, superintendent, for construction of the remaining six buildings of the seven-building Phantom Lake Elementary School on 160th Ave. S.E. in the Lake Hills area east of Bellevue. Plans by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. AWARDS—GENERAL: Venne Beauchamp, Box 637, Everett, $309,074. MECHANICAL: Navarre Plumbing & Heating Co., 3839 Stone

Way, Seattle, $74,757. ELECTRICAL: Valley Electric Co., 125 W. Main, Auburn, $42,202. SP 9-14. Previous report 9-5

BELLINGHAM HIGH SCHOOL ADDITION— Bellingham, Wash.
(Estimated cost $131,200)

State matching funds in the amount of $25,351 have been approved by the State Board of Education toward construction of a one-story, 9,565 sq. ft., concrete music building addition to be located at the north end of Bellingham High School at Kentucky and Cornwall streets in Bellingham, for Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham. Plans underway by Galen Bentley, architect, 1130 State St., Bellingham.
SC 9-13. Previous report 8-22

★REROOFING BUILDINGS— Bremerton, Wash.

Award to A. M. Weyland, 4134 C St., Bremerton, $7,820, by Department of the Navy, Public Works Department, Bldg. 78, Puget Sound Naval Shipyard, Bremerton, for removal of existing slate shingles, placing of new asbestos-plastic shingles, and repair or replacement of metal flashing on four buildings at U. S. Naval Hospital, U. S. Naval Base, Bremerton; Spec. No. 1219/57.
SP 9-7. Previous report 8-31

▲PUD BUILDINGS— Brewster, Omak, Wash.

Bids received by Okanogan PUD No. 1, Okanogan for construction of a warehouse and remodeling an office building at Brewster, for construction of an office building at Omak and for construction of a loading dock at the PUD warehouse in Okanogan. Plans by Alvin E. Erickson, architect, Central Bldg., Wenatchee. BIDDERS: Claude Gann, Okanogan, $30,164; Lowry Construction Co., Box 1013, Wenatchee, $32,880; Armstrong & Armstrong, Box 59, Wenatchee, $33,637; Cusicks Inc., Box 652, Wenatchee, $38,490. DM 9-17. Previous report 8-23

HOSPITAL ADDITIONS— Brewster, Wash.
(Estimated cost $320,000)

Bond election will be held October 8 by Okanogan-Douglas County Hospital District No. 1, Brewster, for funds to aid in financing conversion of the present McKinley Hospital building into a nursing home and construction of a new general hospital building as a separate unit in Brewster. Superintendent of the hospital is Howard M. Gamble. Architects are Grant, Copeland & Chervenak, 420 E. Howell, Seattle.

A. F. Moberg, acting director for Northwest Operations for the Housing and Home Finance Agency, 450 Federal Office Bldg., 909 1st Ave., Seattle, has approved an advance of funds amounting to $6,400 to provide preparation of preliminary plans and cost estimates for the improvement and addition project. Part of the construction money will be provided from Hill-Burton funds.
SP 9-6

CHURCH— Camas, Wash.
(Estimated cost $375,000)

Excavation will start soon in preparation for construction of the new Assembly of God church just west of the One-Stop area on the Evergreen Highway in Camas, according to Rev. Ernest Mattson, pastor of the church. Foundation work for the church will start by the end of this year. Plans call for Sunday school facilities for about 300, and sanctuary with the same capacity.
SC 9-7

PLYWOOD PLANT EXPANSION— Centralia, Wash.
(Estimated cost $150,000)

Central Plywood, Inc., George Rakness, plant manager, Central Blvd., Centralia, has started on a modernization and expansion project at the plywood plant, including construction of a 60'x100' building and installation of a hot press.
SC 9-11

■SCHOOL— Centralia, Wash.

Planholders announced for construction of a one-story, 71,000 sq. ft., concrete and frame, 750-student junior high school consisting of four separate buildings to be located on Borst Park site in Centralia. Bids will be opened 8 p. m., October 10, by Centralia School District No. 401, 415 W. Pear, Centralia. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

Planholders: Standard Construction Co., 315 E. 25th, Tacoma; Ketner Bros., Inc., 419 St. Helens Ave., Tacoma; Leavitt Chandler, Box 6, Bellevue; Construction Engineers & Contractors, 801 Port of Tacoma Road, Tacoma; Grays Harbor Construction Co., Box 703, Aberdeen; Anderson Construction Co., 115 S. 9th, Tacoma; G. Kirkebo & Sons, 1410 Mt. View Drive, Tacoma; Newland Construction Co., 3302 Hill, Everett; Conners Electric, 103 S. 28th, Tacoma.
HH 9-13. Previous report 9-6

GOODYEAR PLANT ADDITION— Chehalis, Wash.
(Estimated cost $11,000)

Plans announced by Goodyear Tire & Rubber Co., R. W. Jenkinson, plant manager, Chehalis, for immediate construction of an additional building at the plant south of Chehalis. The 60'x40' masonry structure will be situated adjacent to the railroad spur in the plant area and will connect with the existing building. Handling and storage facilities for carbon black will be provided.
SC 9-17

DORMITORY— Cheney, Wash.
(Estimated cost $350,000)

Plans announced by Eastern Washington College of Education, Don S. Patterson, President, Cheney, for construction of a dormitory to house 200 men students. The state has given permission for the college to finance the construction through sale of $600,000 in bonds. Existing dormitory space at the college will be filled beyond capacity this fall.
LC 9-18

BANK— Clarkston, Wash.
(Estimated cost $300,000)

Final approval has been received from the National Bank of Commerce, 2nd and Spring, Seattle, for construction of a new bank on the north side of Elm St. between 6th and 7th streets in Clarkston. I. N. Knutson is manager of the Clarkston branch of the bank. Architects are George W. Stoddard-Huggard & Associates, 1120 Harvard, Seattle.
DR 9-7. Previous report 8-23

★CHURCH ADDITION—Coulee City, Wash.

Award to Basin Builders, Box 914, Ephrata, no amount available, by the Presbyterian Church at Coulee City, for construction of an addition to the church. Plans by Donald R. Hollingberry, architect, W. 1551 Highway 10, Moses Lake. Bids opened August 26.
LL 9-13. Previous report 8-23

■HIGH SCHOOL— Darrington, Wash.

Planholders announced for construction of a one-story, 10-classroom high school at Darrington, on which bids will be opened 8 p. m., September 23, by Darrington School District No. 330, in the office of the superintendent at the high school in Darrington. Plans with Harold W. Hall, architect, Commerce Bldg., Everett.

Planholders—GENERAL: Sanford Wright, 302 Clark Bldg., Everett; Venne Beauchamp, Box 637, Everett; Van Werven & Van Andel, 517 Front, Lynden. MECHANICAL: Haskell Plumbing & Heating, 1509 Cornwall, Everett; Callahan Plumbing & Heating, 3211 Broadway, Everett; Home Building & Heating Co., 4246 Rainier Ave., Seattle; Stoll & Freese Plumbing & Heating, 103 W. Main, Edmonds. ELECTRICAL: Holert Electric, 2300 W. Spokane, Seattle; Maier's Electric & Appliance, 2008 Hewitt, Everett; McInnis Electric, 221 State, Marysville.
HH 9-13. Previous report 9-5

BAPTIST CHURCH—East Wenatchee, Wash.

The Douglas County Commissioners, Courthouse, Waterville, are considering approving a site requested by the Missionary Baptist Church for construction. The site is located at the Breezy Point service station south of East Wenatchee.
SC 9-11

SCHOOL ADDITION— Eltopia, Wash.

Working drawings are nearing completion by Charles A. Baylon, architect, 912 Elliott Ave. W., Seattle, for construction of a 30'x75' two-classroom addition to the new elementary school, about 13 miles north of Eltopia on the Pasco-Spokane Highway. Tilt-up concrete panels (with concrete block alternate); concrete slab-on-grade; built-up roof, 3" t&g decking; glued laminated beams; wood sash; asphalt tile flooring; perforated acoustical tile ceilings; connected to existing heating system, unit ventilators.
PD 9-12

●BUILDING ADDITIONS— Enumclaw, Wash.

Bids will be opened about October 3 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for United States Army Reserve Leased Facility, involving modifications and additions to an existing building, 1233 Stevenson Ave., Enumclaw; ENG-45-108-58-16. Specifications with above office. Work includes addition of electrical wiring and fixtures, interior partitions, exterior sign and incidental modifications.

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★CHURCH— Ephrata, Wash.

Award on construction of one-story, 5,600 sq. ft. slab-on-grade first unit for a new church at C and 1st N.W., Ephrata. The structure, to be used as a Sunday School, will be built for The Community Methodist Church, 117 C St., N.W., Ephrata. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. AWARD: Yager Construction Co., 1st and A St. S.E., Ephrata, $51,909. 2ND LOW: Columbia Construction Co., Box 275, Moses Lake, $52,179. 3RD LOW: Westover & Hope, Quincy, $52,700.
LL 9-17. Previous report 8-30

SUPERMARKET— Ephrata, Wash.

Contract may not be awarded until spring of 1958 by T.B.&M. Supermarkets, Silverdale Highway, Bremerton, for construction of a new supermarket in Ephrata. Plans by Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle. Low bidder in the fall of 1957 was Oelke Construction Co., 1574 B St. S.W., Ephrata, with $136,816.
SP 9-6. Previous report 11-27, '56

● FOLDING GYM SEATS— Everett, Wash.

Bids will be opened 8 p.m., October 7 by School District No. 2, O. N. Johnson, secretary, Auditorium Bldg., Everett for furnishing and installing folding gym seats at the New Physical Education Bldg. at Everett Junior College. Specifications with above office. HH 9-17

● FIRE SIGNAL BUILDING— Everett, Wash.

(Estimated cost $180,000)

Bids to be opened 10 a.m., October 8 by City Council, City Hall, Everett for construction of a two-story and basement, 12,438 sq. ft. fire alarm signal building for the city. Plans with Botesch & Brown, architects, 504 Commerce Bldg., Everett. $15 deposit. Certified check, cashier's check or bid bond 5%.

Reinforced concrete footings, foundations; concrete block and brick walls; precast channel slab floors; concrete beams, precast slab roof; masonry and frame partitions; wood, concrete and metal stairways; steel windows painted interior and exterior wall finish and trim; plaster, metal lath and gypsum lath partitions; asphalt tile, ceramic tile flooring; plaster ceilings; rigid insulation in roof; steam heating system, oil fired; ventilating ssytem.
DC 9-17. Previous report 8-22

WAREHOUSE TERMINAL— Everett, Wash.

(Estimated cost $40,000)

Construction to start soon by Newland Construction Co., Box 230, Everett, on a terminal and warehousing area, involving a 50'x150' concrete slab and concrete block building, for Coast Truck Lines, 3115 McDougall, Everett. The project is the first unit of a warehouse-terminal and industrial area to be developed at 34th and Spruce streets in Everett. HH 9-12

APARTMENT HOUSE— Ferndale, Wash.

Town Council, Town Hall, Ferndale, is considering a request submitted by D. C. Heide of Ferndale for an eight-unit apartment house. ET 9-10

REST HOME— Ferndale, Wash.

(Estimated cost $50,000)

Plans have yet to be approved by City Planning Commission of Bellingham and by the state for construction of a one-story 33-bed rest home in Ferndale on the Herbert Lewis property located adjacent to an undeveloped street deeded to the city. Plans by Gordon Walker & Associates, architects, 319 E. Champion, Bellingham.
ET 9-7. Previous report 8-28

● BUILDING, DRIVEWAY ALTERATIONS— Hoquiam, Wash.

Bids to be opened 3 p.m., September 27, by General Services Administration, 126 Federal Office Bldg., Seattle, for building and driveway alterations at the U.S. Post Office, M and 8th streets, Hoquiam; SEA-552. Plans with Seattle office. DM 9-17

LODGE TEMPLE— Kelso, Wash.

(Estimated cost $200,000)

Members of the Kelso Elks Lodge have voted to authorize trustees to arrange financing for a new lodge temple adjacent to the Kelso Elk's golf course. Plans for the building are underway and the tentative schedule calls for construction to start in the spring. Project is expected to include golf, lodge and club facilities. SC 9-17

▲FIRE STATION— Kennewick, Wash.

Bids received by William Hansen, city manager, City Hall, Kennewick, for construction of a new fire station in Kennewick. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima. Bids opened September 10. LOW BIDS: Charles Dunham, Kennewick, $28,954; Don Crow, Kennewick, $,30,422; Ray Britton, Box 667, Kennewick, $30,644.
IG 9-13. Previous report 9-5

▲SCHOOL ADDITION— Kent, Wash.

Bids received by Kent School District No. 415, 9800 Kent-Black Diamond Road, Kent, for construction of an 8,000 sq. ft. one-story six-classroom school building to be constructed at O'Brien Elementary School on O'Brien Road (S. 212th St.) and SSH No. 5M. Bids opened September 12. Plans by Mallis & DeHart, architects, 613 Lyon Bldg., Seattle. LOW BIDS — GENERAL: C. E. Skinner, Box 706, Orting, $65,992; Norge Construction Co., 5008 Admiral Way, Seattle, $66,000; C. Nilson & Son, 20 First St. S.E., Auburn, $70,415. MECHANICAL: Boyker Plumbing & Heating, 202 1st Ave. S., Kent, $19,482; Reynolds Plumbing & Heating, 110 Railroad Ave. S., Kent, $21,685; L. G. Massart Plumbing & Heating, 4501 9th Ave. N.W., Seattle, $22,757. ELECTRICAL: Gracey Electric, 5204 Pritchard, Seattle, $5,360; Keystone Electric, Skinner Bldg., Seattle, $6,100; Fox & Nystrom Electric, 207 E. Meeker, Kent, $6,129. PD 9-14. Previous report 9-7

ELEMENTARY SCHOOL ADDITIONS— Kent, Wash.

(Estimated costs $85,195, $80,815)

State matching funds in the amounts of $55,865 and $53,003 have been approved by State Board of Education towards an addition to East Hill Elementary School and an addition to Panther Lake Elementary School, respectively, for Kent School District No. 415, 9800 Kent-Black Diamond Road, Kent.
SC 9-18

RESIDENCE— Kirkland, Wash.

(Estimated cost $25,000)

Working drawings are nearing completion by Cummings & Martenson, architects, 250 Market St., Kirkland, for a two-level and basement wood frame residence in Kirkland. Stone veneer, cedar siding exterior; pitched roof, wood shake, built-in gutters; wood sash, aluminum ventilating windows; drywall partitions; incandescent lighting; cork tile, slate, vinyl tile flooring; wood cabinets; two stone fireplaces; oil-fired forced warm air heat; aluminum reflector type insulation in attic and some walls. PD 9-5

★ELEMENTARY SCHOOL ADDITIONS— Lacey, Wash.

Award to low bidder Korsmo Bros., 155 E. 123rd, Tacoma, $62,240, by North Thurston School District No. 3, Harold E. McCaslin, clerk, North Thurston High School, Lacey, for construction of additions and alterations to the South Bay Elementary School in Lacey. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. Bids opened September 11.
HH 9-14. Previous report 9-7

LDS CHURCH— Longview, Wash.

Working drawings are underway by Ben F. McAdoo, Jr., architect, 1718 Olive Way, Seattle, for construction of a one-story and partial basement, 9,500 sq. ft. LDS church on the corner of 17th and Kesler, Longview. Raymond F. Breese of Longview is pastor.
PD 9-12. Previous report 7-9

CHURCH EDUCATION BUILDING— Longview, Wash.

The Longview Planning Commission, City Hall, Longview, has granted approval for construction of a church educational building adjoining the sanctuary at First Baptist Church, 1718 E. Kessler Blvd., Longview. The structure will be located at 1170 17th Ave. SC 9-18

★PORCH ENCLOSURE, PAINTING— Medical Lake, Wash.

Award to Sceva Construction Co., N. 2928 Madelia, Spokane, $6,666, by Department of Institutions, Olympia, for enclosing the Edison Hall porch and painting the Spruce Hall porch at Lakeland Village, Medical Lake.
DE 9-14. Previous report 9-5

HIGH SCHOOL ADDITION— Mercer Island, Wash.

(Estimated cost $167,251)

State matching funds in the amount of $129,352 have been approved by State Board of Education toward construction of an addition to the high school at Mercer Island, for Mercer Island School District No. 400, Box 215, Mercer Island. SC 9-18

■ PASADENA PARK SCHOOL— Millwood, Wash.

Planholders announced for construction of the 13-classroom Pasadena Park School in Millwood on which bids will be opened 2 p.m., September 24, by Millwood School District No. 143, in the office of the architect, George Rasque & Sons, Washington Trust Bldg., Spokane.

Planholders—GENERAL: Henry George & Son, Hutton Bldg.; Hazen & Clark, W. 108 Boone; Johnson - Busboom - Rauh, N. 601 Cedar; William F. Spilker & Son, Route 5; S. G. Moring & Sons, 411 W. 2nd; Purvis Construction Co., Box 64, Yardley; Kenneth Custis, 741 E. 23rd. MECHANICAL: Peck & Gale, S. 211 Washington; C. E. Womack, 328 Jefferson; Senna Service, N. 732 Napa; McClintock & Turk, N. 3812 Division; Spokane Plumbing and Heating, N. 613 Monroe; James Smyth, N. 216 Division; Arnold & Jeffers, N. 1309 Ash; Adams & Little, N. 1329 Howard; Mank & Sons, E. 1722 Sprague. ELECTRICAL: Brown-Johnston Co., N. 118 Lincoln; Electric Smith, E. 123 Sprague; Power City Electric, N. 920 Howard; Kehne Electric, N. 416 Helena; Maxwell's, Inc., E. 14 Mission; Mott Electric, E. 3915 Trent; Pacific Electric, S. 507 Sherman. Of Spokane unless noted.
LL 9-17. Previous report 9-10

HIGH SCHOOL— Mossyrock, Wash.

(Estimated cost $480,341)

State matching funds in the amount of $53,517 have been approved by State Board of Education toward construction of a new high school building at Mossyrock, for Mossyrock School District No. 206, Mossyrock. Plans underway by William Arild Johnson & Associates, architects, 3506 Broadway, Everett. SC 9-18. Previous report 7-31

HIGH SCHOOL—Mountlake Terrace, Wash.

Preliminary plans will be started soon by architect Ralph Burkhard, 2120 S.W. 152nd, Seattle, for a high school in Mountlake Terrace, for Edmonds School District No. 15, Harold Silvernail, superintendent, 4th and Daley, Edmonds. PD 9-5

JUNIOR COLLEGE— Mount Vernon, Wash.

(Estimated cost $1,479,630)

State matching funds in the amount of $1,111,616 have been approved by State Board of Education toward construction of the proposed 110,298 sq. ft., one-story, 820-student capacity Skagit Valley Junior College at Mount Vernon, for Mount Vernon Union High School District No. 1, 314 N. 9th, Mount Vernon. Plans by Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle.
SC 9-18. Previous report 8-28

STATE LIBRARY— Olympia, Wash.

Working drawings are completed by Paul Thiry, architect, 800 Columbia St., Seattle, for the 60,000 sq. ft. state library building between Public Lands-Social Security and the Transportation buildings in Olympia. Bids will be called late September for opening in early October.

Reinforced concrete, Wilkeson exterior; flat built-up roof, fiberglass insulatin in roof; aluminum sash; steel stud and plaster partitions; rubber tile flooring; extension of existing central steam plant, air condition-

ing; fluorescent lighting; some mechanical work. Plans include steel book stacks, an electric book lift, a self-operating type elevator. Herculite entrance doors.
PD 9-5. Previous report 5-22

★TELEPHONE BUILDING—
Pacific Beach (near Hoquiam), Wash.

Award to Lamb Construction Co., foot of F St., Aberdeen, by Pacific Telephone & Telegraph Co., W. J. Billings, division manager, 1200 3rd St., Seattle, for construction of a one-story concrete block 26'x36' telephone building at Pacific Beach, north of Hoquiam. The structure will be built near the existing telephone center and will have reinforced concrete floor slab and footings and a flat roof. Bids opened September 6.
SP 9-13. Previous report 8-29

■COLLEGE BUILDINGS— Pasco, Wash.

Planholders announced for construction of steel and block buildings, including a 41,290 sq. ft. classroom building, a 17,697 sq. ft. gymnasium-music building a 14,578 sq. ft. vocational-technical school building and boiler plant additions, at the Columbia Basin College site near the airport at Pasco. Bids will be opened 8 p.m., September 25, by Pasco School District No. 1, 517 N. 3rd St., Pasco. Plans with Victor Louis Wulff, architect, E. 1526 Riverside, Spokane.

Planholders: H. Halvorson, Inc., Box 6, Yardley; E. C. Mardis, Grigg Bldg., Pasco; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata; Murray Construction Co., Box 193, Kennewick; Gilbert Moen, 516 S. 5th, Yakima; Jensen-Rasmussen, Box 89, Sunnyside; A. Ritchie, Box 516, Walla Walla.
SC 9-14. Previous report 9-6

▲SWIMMING POOL— Prescott, Wash.

Bids received by Prescott School District No. 402, P. C. Manning, superintendent, Prescott, for construction of a swimming pool, wading pool and bathhouse at Prescott. Plans by H. Brandt Gessel, architect, 214 E. Birch, Walla Walla. Bids opened September 11. Bids were invited on Proposal 1 for swimming pool, wading pool and bathhouse complete; Proposal 2 for the two pools without decking and bathhouse, and Proposal 3 for lump sum for bathhouse and deck. BIDDERS: Gun-Crete Co., 1615 N. 19th, Salem, Ore., $45,650, proposal 2; Joe E. Venne,, 407 12th St., Sunnyside, $95,270, proposal 1; Salem Sand & Gravel Co., 1405 N. Front St., Salem, $47,760, proposal 2; Henry E. Gross, 448 Boyce Ave., Walla Walla, $114,-916, proposal 1, $54,038, proposal 2, $60,878, proposal 3; Elvrum Construction Co., 316 N. 12th, Pasco, $101,975, $58,475, $43,500.
SC 9-14. Previous report 9-7

★HOSPITAL— Prosser, Wash.

Award announced by Adams County Hospital No. 1, Prosser for construction of a 35½'x40½' south wing addition and 40'x55' north wing addition and installation of new elevator apparatus in new wing, at Prosser Memorial Hospital in Prosser. Plans by Whitehouse, Price, DeNeff, architects and E. J. Deeble, associate, 715 Hutton Bldg., Spokane. GENERAL—AWARD: Rupp Bros. Construction Co., Prosser, $90,930 (basic plus $450 alternate). OTHER BASIC BIDS: Jensen-Rasmussen Co., Box 89, Sunnyside, $95,-340; Gilbert H. Moen, 516 S. 5th, Yakima, $105,640; Murray Construction Co. Box 193, Kennewick, $107,854; Howard E. Martin, Sunnyside, $110,277. MECHANICAL — AWARD: Randolph & Taylor, Pasco, $47,-800. OTHER BIDS: J. P. Head, Pasco, $47,-830; Central Heating & Plumbing, Yakima, $51,143; W. R. O'Rourke, Walla Walla, $56,-258. ELECTRICAL — AWARD: Creamer Electric, Yakima, $14,706. OTHER BIDS: Duke's Electric, Pasco, $14,725; Smith & Wilson, Union Gap, $16,192. Bids were opened September 12.
DC 9-17. Previous report 8-30

PHYSICAL EDUCATION BUILDING—
Puyallup, Wash.

Puyallup School District No. 3, Paul B. Hanawalt, superintendent, 605 W. Main, Puyallup, recently selected a site on 7th and Main streets, across from the high school, in Puyallup, for construction of a 189'x148'x 35' physical education building for the district. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma.

Plans call for four teaching stations in the building, two on the 96'x108' main floor (which can be subdivided by a folding partition into two 57'x96' areas), and two smaller balcony areas which will be 40'x96' each. Recessed bleachers seating about 3,-000 person will be pulled out when the main floor is used for basketball games or community events. Construction plans tentatively call for reinforced concrete walls; glued laminated wood beams; plastic windows on lower floor; brick veneer exterior. Two large shower rooms and storage areas will be provided.
SC 9-5. Previous report 8-1

AGRICULTURAL STATION EXPANSION—
Puyallup, Wash.

Plans announced by Washington State College, Pullman, for a long-range expansion program at the Western Washington Experiment Station in Puyallup and at six other state experiment centers, including stations at Vancouver, Mount Vernon and Ilwaco. Included in the Puyallup station work will be an $875,000 plant science building with adjacent laboratories. Other plans under consideration by the college Legislative Budget Committee included about 19 projects totaling $500,000.
SC 9-13

▲RESIDENCES—
Quinault Ranger Station, Wash.

Bids received by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, Ore., for construction of two Quinault Ranger Station residences, Grays Harbor County, Olympic National Forest, Wash. BIDDERS: King Construction, Longview, $46,938; Levage Construction Co., Box 2355, Parkland, $47,792; C. E. Skinner, Box 706, Orting, $51,114; R. J. Smith, Bremerton, $54,990; DelGuzzi Construction Co., Port Angeles, $56,435; Grays Harbor Construction Co., Box 743, Aberdeen, $57,000. Bids opened September 11.
WB 9-13. Previous report 9-5

MEDICAL OFFICE BUILDINGS—
Renton, Wash.

Working drawings will be completed soon by Kenneth S. Ripley, architect, 915 E. Pine, Seattle, for construction of two medical office buildings on 4th Place, Renton, one for Metclo, Inc., and one for Robert Evoy, M.D., Renton. Bids will be called in September.
PD 9-5

CITY HALL— Richland, Wash.
(Estimated cost $690,000)

Plans have been completed by architects Young, Richardson & Carleton, Central Bldg., Seattle, and architects are now studying ways to reduce the facilities to cut costs on the proposed city hall, to be located on a site across the street from the main fire station, in Richland. According to the Atomic Energy Commission, Box 550, Richland, a number of changes made in the preliminary plans last winter have brought the estimated cost from the original $550,000 to the cost noted above.
SP 9-14. Previous report 6-7

★INTERIOR PAINTING (Phase 10)—
Richland, Wash.

Award to Minor's Decorating Studio, Moses Lake, $84,674, by Atomic Energy Commission, Box 550, Richland, for phase 10 of a program for interior painting of about 364 housing units including 44 apartment units.
DM 9-18. Previous report 7-18

●PAINTING SHED— Seattle, Wash.

Bids to be opened 2 p.m., September 26 by Port of Seattle Commission, C. H. Carlander, secretary, 406 Bell St. Terminal, Seattle for painting the transit shed at Pier 48, Main St. Terminal, Seattle. Specifications with above office. $50 deposit. Cashier's check or bid bond 5%.
DC 9-17

●RESIDENCE— Seattle, Wash.

Bids will be opened September 30 from a select list of bidders, by owner Sam



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.

SCPI

CHEHALIS BRICK and TILE Co.

BOX 868, CHEHALIS, WASHINGTON

Steinberg, in the office of Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle, for construction of a one-story and basement wood frame residence on 35th Ave. between Columbia and Marion streets, Seattle. Brick veneer and cedar siding; pitched roof, composition shingle; aluminum sash, aluminum sliding doors; plaster partitions; hardwood paneling; oak slate, ceramic tile, cork, vinyl, asphalt tile flooring; birch cabinets; formica, tile counters; oil-fired forced air heat. Sub-contractors may see plans at Home Builders Assoc., 170 Mercer St., Seattle. PD 9-17

MOTEL— Seattle, Wash.
(Estimated cost $1,000,000)
Plans have been completed by Douglas W. Vicary, designer, and A. J. Mahoney, engineer, 2307 Rainier Ave., Seattle, for a three-story 100-unit motel to be constructed on concrete columns at 2201 7th Ave. in Seattle, for University Enterprises, 4728 University Way, Seattle. Parking area will be provided under the building. SP 9-17

● NAVAL BUILDING ALTERATIONS— Seattle, Wash.
Bids to be opened 2 p.m., P.S.T., September 26, by 13th Naval District, public works officer, Building 232, U.S. Naval Station, Seattle, for alterations to Building 208, Naval Station, Seattle. Plans with above office. Work involves installation of stud and gypsum board partitions, relite partitions, doors, hardware; patching floor covering; painting about 7,800 sq. yd.; recondition electric system. DM 9-17

★SANDPOINT SCHOOL— Seattle, Wash.
Awards announced by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of a one-story, 14-classroom school at 60th Ave. N.E. and E. 62nd, Seattle. Plans by George W. Stoddard-Huggard & Associates, architects and engineers, 1120 Harvard, Seattle. AWARDS—GENERAL: John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $366,498 (basic less four alternates). MECHANICAL: L. G. Massart Plumbing & Heating, 4501 9th Ave. N.W., Seattle, $83,713. ELECTRICAL: Hooper Electric Co., 215 Marion St., Seattle, $41,966.
PD 9-17. Previous report 9-11

● GRADE SCHOOL ADDITIONS— Seattle, Wash.
Bids to be opened 2 p.m., October 1 by Highline School District No. 401, Carl O. Laudenbach, assistant superintendent, 253 S. 152nd, Seattle for construction of additions totaling 18,000 sq. ft., to Marvista Elementary School at Marine View Drive and S.W. 199th Place, Seattle. Separate bids on general, mechanical and electrical. Plans with Waldron & Dietz, architects, 215 8th N., Seattle. $20 deposit.
Project involves two four-classroom cluster units and a multipurpose building with administrative, food service and kitchen facilities. Slab-on-grade; frame and pumice block exterior walls; steel sash; glued laminated beams; t&g decking; built-up roofing; plasterboard interior wall finish; acoustical tile and asbestos vinyl tile; extension of present heating system. DC 9-17

● JUNIOR HIGH SCHOOL ADDITION— Seattle, Wash.
Bids will be opened 8 p.m., October 17, by Shoreline School District No. 512, Myron Ernst, secretary, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle, for construction of additions to the Thomas Hunt Morgan Junior High School at 25th Ave. N.E. and E. 160th, Seattle. Bids may be on one or all three of the general, mechanical and electrical contracts. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Bid bond, certified check or cashier's check 5%. PD 9-17

OFFICE, WAREHOUSE— Seattle, Wash.
(Estimated cost $40,000)
Working drawings will be completed mid-September by Johnston & Campanella, architects, Box 600, Renton, for construction of a sales office and warehouse building north of the business district on East Valley Highway, Kent, for Stoneway Sand & Gravel Co., Maple Valley Highway, Renton. Bids will be called the latter part of September, with bidders limited to contractors in the south area (Kent, Auburn, Renton, etc.) Structural steel; concrete slab on grade; built-up roof; aluminum store front; asphalt tile flooring; gas-fired horizontal furnaces. PD-9-5

MUSICIANS BUILDING— Seattle, Wash.
Preliminary drawings will be started soon by Ibsen A. Nelsen, architect, 1314 E. 43rd, Seattle, for construction of a one-story building on 3rd Ave. and Cedar, Seattle, for Musicians Club, Local 76, Chet Ramage, business representative, 309 Center St., Seattle. Bids will be called in December, and it is hoped construction will begin the first part of 1958. Building will be constructed for future expansion into extra floors as needed for rental space. PD 9-5

★UNIVERSITY ALTERATIONS— Seattle, Wash.
Award to E. F. Shuck Construction Co., Inc., 535 Pontius, Seattle, $7,526, by University of Washington, 210 Administration Bldg., campus, Seattle, for alterations to the Department of Biochemistry, Health Sciences Bldg., Seattle. Plans by Naramore, Bain, Brady & Johanson, architects, and McClellan & Jones, associate architects and engineers, 904 7th Ave., Seattle.
SP 9-10. Previous report 8-28

CEDAR PARK ELEMENTARY SCHOOL— Seattle, Wash.
Working drawings are nearing completion by Paul Thiry, architect, 800 Columbia St., Seattle, for the 38,000 sq. ft. Cedar Park Elementary School, in northeast Seattle, for Seattle School District No. 1, King County, 815 4th Ave. N., Seattle. Reinforced concrete; monolithic concrete exterior; built-up roof; aluminum windows; plaster partitions; asphalt tile flooring; fiberglass insulation in roof; oil-fired hot water heat. Asphaltic concrete will be used in the play yard and parking areas. The 12 classrooms will be planned for future expansion to 18 classrooms.
Bids will be called in late October for opening the first part of November.
PD 9-11. Previous report 7-18

★ROOFING— Seattle, Wash.
Award to ABC Roofing & Siding, Inc., 41 Hinds, Seattle, $1,160, by Paul R. Hendricks, city purchasing agent, 511 County - City Bldg., Seattle, for installing a built-up roof on fire station No. 39, 12705 30th Ave. N.E., Seattle. PD 9-11. Previous report 9-6

★OVERHEAD APPARATUS DOOR— Seattle, Wash.
Award to Overhead Door Co., 3409 Stone Way, Seattle, $1,494, by Paul R. Hendricks, city purchasing agent, 511 County - City Bldg., Seattle, for installing overhead apparatus door. PD 9-11. Previous report 9-6

METHODIST CHURCH ADDITION, REMODELING— Seattle, Wash.
(Estimated cost $75,000)
Working drawings are nearing completion by Cuykendall Iles & Blean, architects, Arcade Bldg., Seattle, for construction of a two-story 5,830 sq. ft. addition and remodeling of 2,520 sq. ft. at Seaview Methodist Church, at West Graham and 47th Ave. S.W., Roy Jenkins, pastor, 6048 47th Ave. N.W., Seattle. Addition to have: 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 heat; folding Space doors. Bids will be called this fall, after financing has been completed.
Addition will include social hall, seven classrooms, kitchen and parlor, and remodeling will involve five classrooms.
PD 9-12

NORTH SEATTLE HIGH SCHOOL— Seattle, Wash.
(Estimated cost $3,766,400)
Preliminary plans are nearing completion by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, for the new 1,500-student 200,000 sq. ft. one-story North Seattle High School near Ashworth Ave. and N. 130th St. in Seattle, for Seattle School District No. 1, King County, 815 4th Ave. N., Seattle. Plans include reinforced concrete; precast and pre-stressed columns and beams in classroom portion, thin-shell construction in gymnasium and auditorium; aluminum window wall, some brick veneer exterior; exposed shale block partitions.
PD 9-12. Previous report 7-18

★FLOOR TILE— Seattle, Wash.
Award to low bidder Frederick & Nelson, contract department, 6th and Pine, Seattle, $.1475 (unit price) for furnishing approximately 40,000 sq. ft. of ⅛x9x9 Aristoflex floor tile for projects in Seattle. Six bids were received, ranging up to $.165 (unit price). PD 9-12. Previous report 8-30

▲JUNIOR HIGH, ELEMENTARY SCHOOL ADDITIONS— Seattle, Wash.
Bids received by Highline School District No. 401, Carl Laudenbach, business manager, 253 S. 152nd St., Seattle, for additions to Puget Sound Junior High School, 1st Ave. S. and S.W. 126th St., Seattle, and additions to Hazel Valley Elementary School, S.W. 132nd St. and 4th Ave. S., Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. BIDDERS—HAZEL VALLEY: E. L. Ollom Construction Co., 2315 W. Spokane St., $54,704; United Construction Co., 3627 Findlay St., $54,709; Northern State Construction Co., 2833 26th Ave. W., $55,660; Roxbury Construction Corp., 204 109th Ave. S.E., Bellevue, $56,385; Korsmo Brothers, 5944 Lake Grove Ave. S.W., Tacoma, $56,404; Norge Construction Co., 5008 Admiral Way, $57,000; Ballard Contractors, 4601 6th Ave. N.W., $59,514; Nelsen Building & Contracting Co., 1243 Rainier Ave., $79,121. PUGET SOUND: Korsmo Brothers, $76,178; Roxbury Construction Corp., $81,259; Norge Construction , $85,000; Ness Construction Co., 1125 W. 53rd, $93,300; Northern State Construction Co., $93,800. Of Seattle except as noted. Bids opened September 11.
PD 9-13. Previous report 9-7

POSTOFFICE— Seattle, Wash.
Bids will be opened for the second time on September 30 by General Services Administration, Federal Services Office Bldg., 909 1st Ave., Seattle, for the right to construct at a cost of about $900,000 a new main postoffice at 3rd Ave. and Union St., Seattle, in exchange for part of the property occupied by existing postoffice. The University of Washington and its Metropolitan tract lessee, University Properties, Inc., will bid on the project. Plans are by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. Plans call for a three-story postoffice with dimensions of 96'x156' on first floor and 60'x156' on each of the second and third floors; 32-car capacity parking space in basement. The $9,000,000 overall building program includes a 20-story building to replace the existing Douglas building, a six-level 500-car parking garage with overflow garage parking on roof of postoffice, and a three-story postoffice. Construction is tentatively scheduled for spring of 1958.
PD 9-13. Previous report 9-6

▲CASEWORK— Seattle, Wash.
Bids were received September 12 by University of Washington Board of Regents, Seattle, for furnishing and installing casework in Denny Hall, campus, Seattle. BIDDERS: Farwest Construction Co., 608 W. 44th, $87,688 (basic), no bid (alt. 1), no bid (alt. 2); Roy Hilliard, Securities Bldg., no bid, no bid, $49,990; Wick Construction Co., 720 N. 35th, $91,321, no bid, no bid; Ness Construction Co., 1125 W. 53rd, $89,765, no bid, no bid; Wick Construction Co., 720 N. 35th, $91,321, no bid, no bid. All of Seattle.
PD 9-31. Previous report 9-4

★HIGH SCHOOL ADDITIONS— Seattle, Wash.
Awards announced by Shoreline School District No. 412, E. 158th and 20th Ave. N.E., Seattle, for construction of a nine-classroom building and a multipurpose room addition to Shoreline Senior High School at E. 185th and 1st Ave. N.E., in Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARDS—GENERAL: Poston Construction Co., 519½ University Way, Seattle,

$143,000. MECHANICAL: Lucken Plumbing & Heating, 922 Leary Way, Seattle, $39,499. ELECTRICAL: Ewing Electric, 5525 Main St., Edmonds, $16,347.
SP 9-14. Previous report 8-24

▲**RESIDENCE— Seattle, Wash.**

Bids received and being held for further study by owner Donald E. Grovac, for construction of an 1,800 sq. ft. two-story residence at 52nd Ave. S. between Alaska and Angeline streets, Seattle. Plans by Maurice Sullam, architect, 915 E. Pine, Seattle.
PD 9-14. Previous report 8-27

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

Planholders announced for construction of a 22,500 sq. ft. addition and approximately 10,000 sq. ft. of remodeling to Harrison Elementary School, 413 22nd Ave. N., Seattle. Bids will be opened 11 a.m., September 27, in purchasing department, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle. Plans with Bindon & Wright, architects, Hoge Bldg., Seattle.

Planholders—GENERAL: Carl G. Anderson Construction Co., 12362 35th Ave. N.E.; O. E. Turnquist Construction Co., 1305 Republican; H. Halvorson, Inc., 20054 Pacific Highway S.; E. F. Shuck Construction, 535 Pontius; Puget Construction Co., Inc., 1811 Bush Place; Ness Construction Co., 1125 W. 53rd; B. F. Turnbull, Inc., 4351 Leary Way. MECHANICAL: University Plumbing & Heating, 3941 University Way; A. H. Merchant Plumbing & Heating Co., 1633 12th Ave.; Ashwell-Twist Co., 967 Thomas; Percy A. Thorn Mechanical Contractor, 24 Etruria; Navarre Plumbing & Heating Co., 3839 Stone Way; L. G. Massart Plumbing & Heating Co., 4501 9th Ave. N.W.; Bayles Brothers, Inc., 3907 12th N.E.; Hart Plumbing & Heating, Inc., 11553 27th Ave. N.E. ELECTRICAL: City Electric & Fixture Co., 433 8th Ave. N.; Holert Electric, 2300 W. Spokane; Northwest Electric Co., 420 Yale N.; Van S. McKenny Co., 104 Wall; Hooper Electric Co., Inc., 215 Marion St. All of Seattle.
PD 9-14. Previous report 9-6

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

Planholders announced for construction of a one-story 10,900 sq. ft. addition to Chinook Junior High School at S. 188th and 42nd Ave. S., Seattle. Bids will be opened 2 p.m., September 24, in office of district clerk, 253 S. 152nd St., Seattle, by Highline School District No. 401, Carl Laudenbach, assistant superintendent. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle.

Planholders—GENERAL: Sanford Wright, Box 809, Everett; B. F. Turnbull, 4351 Leary Way; Norge Construction Co., 5008 Admiral Way; Roxbury Construction Corp., 226 109th S.E., Bellevue. MECHANICAL: University Plumbing & Heating, 3941 University Way; Navarre Plumbing & Heating, 3839 Stone Way; L. G. Massart, 4501 9th Ave. N.W. ELECTRICAL: Connors Electric, 103 S. 28th, Tacoma; Holert Electric, 2300 W. Spokane; Fadden's Electric, 7902 9th Ave. S.W. Of Seattle except as noted.
PD 9-14. Previous report 9-6

APARTMENT— Seattle, Wash.

Construction will start soon by owner-contractor Hajo Corp., 13535 8th Ave. N.W., Seattle, on a 38-unit three-story and basement apartment building at Melrose Ave. and Thomas St., Seattle. Plans by Cuykendall., Iles & Blean, architect, Arcade Bldg., Seattle. Steel frame; flat built-up roof, batt insulation in roof; wood siding, exposed reinforced concrete exterior; aluminum sash; plaster partitions; hardwood, vinyl tile, ceramic tile flooring; wood cabinets; formica counter tops; electric baseboard heat. The balcony egress building will have basement parking, and a 14'x22' swimming pool included in the plans. PD 9-14

▲**BUILDING CONVERSION— Seattle, Wash.**

Bids received by University of Washington, Seattle, for alterations to a building on the corner of Campus Parkway and University Way, Seattle. Bids opened September 17. Plans by Carlson, Eley & Grevstad, architects, 432 Eastlake, Seattle.

LOW BID: Gill Construction Co., 5117 25th Ave. N.E., $13,596. OTHER BIDS: Noble White, 4142 W. Marginal Way, $14,261; W. G. Clark, 408 Aurora, $14,521; Northern State Construction, 2833 26th Ave. W., $14,770; E. F. Shuck, 535 Pontius Ave., $15,398; Strand, Inc., 1801 N. 34th, $16,561; Norge Construction, 5008 Admiral Way, $17,000; Glacier Construction Co., 5536 Coniston Road, $17,150. All of Seattle. PD 9-18. Preivous report 9-14

★**KITCHEN, CAFETERIA ALTERATIONS— Seattle, Wash.**

Award to Strand, Inc., 1801 N. 34th, Seattle, $25,381, by Seattle Pacific College, 3307 3rd Ave. W., Seattle, for alterations to kitchen and cafeteria in Watson Hall on the college site. Plans by W. G. Brust & Associates, Republic Bldg., Seattle.
SP 9-14. Previous report 9-6

★**DORMITORY, HOUSING UNITS— Seattle, Wash.**

Award to Strand, Inc., 1801 N. 34th, Seattle, $86,120, by Seattle Pacific College, 3307 3rd Ave. W., Seattle, for construction of four duplexes on the college site. Plans by W. G. Brust & Associates, architects, 906 Republic Bldg., Seattle. Contract for construction of women's dormitory will be made soon.
SP 9-14. Previous report 9-6

★**CHAPEL, PARISH EDUCATION UNIT— Seattle, Wash.**

Contract negotiated with Wallace B. Questad, Inc., 2858 30th Ave. W., Seattle, no figure available, for construction of a 6,488 sq. ft. chapel and parish education unit. Plans by Oliver Olson, architect, 2437 Market St., Seattle. PD 9-18. Previous report 4-19

FRATERNITY HOUSE— Seattle, Wash.
(Estimated cost $150,000)

Plans postponed until spring of 1958 for construction of a three-story fraternity house on 18th Ave. N.E. for Tau Kappa Epsilon Fraternity, 4547 19th Ave. N.E., Seattle. Plans by Charles A. Baylon, architect, 912 Elliott Ave. W., Seattle, include

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PD 9-18. Previous report 5-29

CHURCH SANCTUARY— Seattle, Wash.
(Estimated cost $100,000)

Preliminary drawings are underway by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, for construction of a 350-seating capacity sanctuary adjacent to existing Tibbetts Methodist Church, Francis Kinch, pastor, 3902 41st Ave. S.W., Seattle. Construction may be underway the latter part of 1958. Future plans include building of a third structure, connecting the present building and the sanctuary. PD 9-18

RESIDENCE— Seattle, Wash.

Contract may not be awarded until spring of 1958 by owner O. F. Weyerman for construction of a two-story, 3,964 sq. ft. residence near Salt Water State Park. Plans by Paul Hayden Kirk, A.I.A., & Associates, 615 Lakeview Blvd., Seattle.

SP 9-18. Previous report 8-13

APARTMENT— Seattle, Wash.

Construction will start about mid-November by owner-contractor Riley Pleas, partner in P & G Construction Co., 522 19th Ave. N., Seattle, on a 24-unit balcony egress apartment on 2nd Ave. N. and Boston St., Seattle. Working drawings have been completed by Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle. Plans involve two 3-story buildings with 12 units each, 2,600 sq. ft. on each floor. Steel frame; flat built-up roof; blanket insulation in roof; cedar siding, Welchboard exterior; aluminum sash; plaster partitions; hardwood, vinyl tile flooring; ceramic tile wall recesses; wood cabinets; formica counters; electric heat. A 15-car asphaltic concrete parking area is included in the plans.

PD 9-18

ELEMENTARY, JUNIOR HIGH SCHOOLS— Seattle, Wash.
(Estimated cost $526,437 elementary, $1,220,693 junior high)

State matching funds in amounts of $375,583 and $1,027,895 have been approved by State Board of Education for construction of new Brookside Elementary School and Central Junior High School, respectively, for Shoreline School District No. 412, E. 158th and 20th N.E., Seattle. SC 9-18

SCHOOL CONSTRUCTION— Seattle, Wash.

State matching funds have been approved by State Board of Education toward school construction for Highline School District No. 401, 225 S. 152nd St., Seattle. Funds were approved as follows: $176,134 towards new $203,527 North Sunnydale Elementary School; $283,075 towards new $316,091 special services school; $64,340 towards $71,489 addition to Burien Heights Elementary School; $269,691 towards new $306,149 N.E. McMicken Heights Elementary School. SC 9-18

■ JUNIOR HIGH SCHOOL, GYMNASIUM— Selah, Wash.

Planholders announced for construction of a one-story, three-unit, 18-classroom junior high school, administration building and a concrete block gymnasium at Selah. Bids will be opened 2 p.m., October 3, in the library of John Campbell School, by Margaret Hale, clerk, Selah School District No. 119, Selah. Plans with Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima.

Planholders—GENERAL: Hainsworth Construction Co., 3028 Western Ave., Seattle; Johnson-Busboom-Rauh, N. 601 Cedar, Spokane; Jensen-Rasmussen Co., Box 89, Sunnyside; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata; Vandivort Construction Co., Box 1647, Wenatchee; W. M. Yeaman, 601 S. 1st St., Yakima; Hans Skov, Liberty Bldg., Yakima; Harold Corpman, 1106 S. 14th Ave., Yakima; Hills Construction Co., 102 S. 5th Ave., Yakima. MECHANICAL: Central Plumbing & Heating Co., 510 S. 1st St., Yakima; Valley Plumbing & Heating, 609 W. Yakima Ave., Yakima; Grant County Plumbing & Heating Co., Box 1567, Moses Lake. ELECTRICAL: Electric Smith, Inc., E. 123 Sprague, Spokane; Creamer Electric, 119 S. 1st St., Yakima.

IG 9-13. Previous report 9-7

JUNIOR HIGH SCHOOL—Silverdale, Wash.
(Estimated cost $669,957)

State matching funds in the amount of $299,354 have been approved by State Board of Education, along with $107,880 in federal funds, toward construction of a new junior high school at Silverdale, for Central Kitsap School District No. 401, Box 2, Silverdale.

SC 9-18

JUNIOR HIGH SCHOOL—Spanaway, Wash.
(Estimated cost $891,632)

State matching funds in the amount of $407,679 have been approved by the State Board of Education toward construction of a new junior high school at Spanaway, for Bethel School District No. 403, Route 1, Box 289-AB, Spanaway. SC 9-18

METHODIST HOME— Spokane, Wash.
(Estimated cost $3,500,000)

Construction will start this fall on a five-story 250-person capacity Methodist Home (to be known as Rockwood Manor) on a 32-acre South Hill tract in Spokane, for Spokane Homes, Inc., O. W. Young, secretary of the board of trustees, Spokane. The site is west of Ray and northwest of the Lincoln Heights reservoir. SC 9-10

▲HIGH SCHOOL ADDITIONS— Spokane, Wash.

Bids received by Spokane School District No. 81, W. 503 West Ave., Spokane, for construction of additions to the John Rogers High School in Spokane. Plans by McClure & Adkison, architects, Sherwood Bldg., Spokane. Bids opened September 11. LOW BIDS —GENERAL: Purvis Construction Co., Box 64, Yardley, $357,854; Hefte Construction Co., E. 11067 Trent, $365,728; Sceva Construction Co., N. 2928 Madelia, $377,454. MECHANICAL: Russ Owens Plumbing & Heating, N. 1020 Washington St., $82,886; Womack Plumbing & Heating, S. 328 Jefferson, $91,098; Senna Service, N. 732 Napa. ELECTRICAL: Kehne Electric, N. 416 Helena, $45,987; Maxwell's, Inc., E. 14 Mission, $46,735; Brown-Johnston, N. 118 Lincoln, $48,000. Of Spokane. LL 9-13. Previous report 8-29

▲MARY QUEEN PARISH—Spokane, Wash.

Bids received by Catholic Diocese of Spokane, Most Rev. Bernard J. Topel, bishop, S. 517 Howard, Spokane, for construction of a one-story 6,100 sq. ft. multipurpose building addition for Mary Queen Parish, Carlisle at Ferrall, Spokane. Plans by John P. O'Neil, architect, Columbia Bldg., Spokane. Bids opened September 12. LOW BIDS—GENERAL: Sceva Constuction Co., N. 2928 Madelia, $41,963; Smith & Roberts, Box 6086, $42,311; Loveland Construction Co., 728 N. Cook, $43,678. MECHANICAL: McClintock & Turk, N. 3812 Division, $30,750; Standard Plumbing & Heating, E. 1801 Sprague, $31,379; Warren, Little & Lund, W. 120 2nd, $31,626. ELECTRICAL: Pacific Electric, S. 507 Sherman, $3,873; Electric Smith, E. 123 Sprague, $4,769; Frost Electric, E. 21 Ermina, $4,779. All of Spokane.

LL 9-14. Previous report 9-10

COLLEGE— Spokane, Wash.

A new college, supported by the state, will have to be developed in Spokane within the next few years, according to Dr. Milton W. Durham, president, Washington State College, Pullman. The grounds of the old Fort George Wright, now being closed by the Air Force, were suggested as a site for the building. SC 9-14

★LABORATORY ALTERATIONS— Spokane, Wash.

Award to William L. Hilton, E. 41 Gray, Spokane, $45,278, by Hollister-Stier Laboratories, Inc., S. 107 Division, Spokane, for alterations to the laboratory. Plans by G. A. Pehrson, architect, Old National Bank Bldg., Spokane.

LL 9-14. Previous report 9-10

■ EMMANUEL LUTHERAN CHURCH— Spokane, Wash.

Planholders announced on construction of a one-story, 11,000 sq. ft., masonry first unit on the proposed new church to be located at Spruce and Coeur d'Alene streets, Spokane. Bids to be opened 3 p.m., September 26, by Emmanuel Lutheran Church, Rev. John M. Groschupf, pastor, S. 411 Pine, Spokane. Plans with Eddy, Carlson & James, architects, 1205 N. Washington, Spokane.

Planholders: Hazen & Clark, W. 108 Boone; Johnson - Busboom - Rauh, N. 601 Cedar; Smith & Roberts, Box 6086; Troy Hood, Box 111, Opportunity; Henry George & Sons, Hutton Bldg.; H. Halvorson, Inc., Box 6, Yardley; Hefte Construction Co., 11607 E. Trent. Of Spokane.

LL 9-18. Previous report 9-13

DENTAL CLINIC, SOLVENT ROOM— Steilacoom, Wash.

The one bid received was rejected by Department of Institutions, Olympia, on construction of a dental clinic in the Women's Receiving Ward at Western State Hospital, Fort Steilacoom. Award was made earlier in the month on the solvent room, to Mel Pedersen, Box 2366, Tacoma, $1,858.

DE 9-18. Previous report 9-16

▲BUS GARAGE— Sumner, Wash.

Bids are being held under study by Sumner School District No. 320, 1625 Main St., Sumner, for construction of a 40'x105' school bus garage at the high school site on Washington St. in Sumner. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. Bids opened August 6. LOW BIDS: Robert E. Wootan, 9922 View St., Tacoma, $8,912; Korsmo Bros., 5944 Lake Grove Ave., Tacoma, $9,663; C. E. Skinner, Orting, $9,790. SP 9-10. Previous report 8-1

HOSPITAL EXPANSION— Tacoma, Wash.
(Estimated cost $150,000)

Architects Lea, Pearson & Richards, 240 S. Stadium Way, Tacoma, have been retained by Mary Bridge Children's Hospital, 311 S. L St., Tacoma, to prepare plans for completion of the third floor of the hospital. When the present three-story 40-bed hospital was built, the top floor was roughed in for future growth and a bed capacity of 60 persons. Work on the architectural drawings will start after recommendations are made by the hospital's medical staff. Physicians' ideas on layout are being sought by a five-man committee headed by Dr. R. A. Norton. Findings by Dr. Norton's unit will be submitted September 27 for medical staff approval. The hospital board will act on the suggestions before architects can start on plans. SC 9-7

MACHINERY FIRM BUILDING— Tacoma, Wash.
(Estimated cost $250,000)

Final plans have been completed by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, and groundbreaking is expected in early fall for a new 30,000 sq. ft. precast concrete and glass building, to be located on a level 10-acre tract adjacent to the Puyallup River Bridge on Highway 99 in Tacoma, for Murphy-Campbell Co., Frank Murphy, president, 2719 S. Tacoma Way, Tacoma. The site, accessible by highway and rail transportation, was purchased from the Port of Tacoma Industrial Development District. Focal point of the structure will be an all-glass 90'x40' display room. SC 9-10

SWIMMING POOL— Tacoma, Wash.
(Estimated cost $250,000)

Plans will be complete in October by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma, for the proposed 165'x75' South End Swimming Pool, to include separate 40'x45' diving pool, 60'x30' wading pool and bathhouse facilties, to be located at E. 56th and D, adjacent to the Stewart Heights Playfield, in Tacoma. Bids will be called soon by Metropolitan Park District, Tom Lantz, recreation supervisor, City Hall Annex, Tacoma.

The main pool will be 3' deep at each end and slope to a maximum depth of 5' at the center. Diving pool will be separated from the main pool by a concrete barrier, with opening so that the water can be filtered and chlorinated together with that of the main pool, and will have one- and three-meter boards and a 10-meter board. The pool will be 12' to 15' deep. The wading pool will have a maximum depth of 12". Adjacent facilities, besides separate dressing rooms for men and boys, women and girls,

and the filtration and chlorination equipment, will include a covered spectator area and a snack bar. Parking area for 243 cars is also planned.

Building to house chlorination and filtration equipment, dressing rooms and appurtenant facilities will be one-story; no basement; L-shaped; 250'x90', 9,250 sq. ft. area; concrete footings and foundation; solid masonry, block walls; concrete slab floors; timber beams; flat glued laminated roof; masonry partitions; exposed masonry walls and partitions; ceramic tile flooring; exposed decking on ceilings; corrugated plastic panels; power vents.

SP 9-12. Previous report 5-7

★STORE ADDITION— Tacoma, Wash.

Award to G. Kirkebo & Son, 1410 Mountain View, Tacoma, no amount noted, by S. H. Kress & Co. of New York City, for alterations and additions to the existing store at 734 Broadway in Tacoma. Plans by Lyle Swedberg, architect, 911½ Pacific Ave., Tacoma. Bids opened August 26 in New York City.

SP 9-13. Previous report 8-24

NURSING HOME— Tacoma, Wash.

Special permit has been approved by City Planning Commission, Tacoma, for construction of a nursing home at 5210 S. State St. in Tacoma. The permit was requested by Dr. Charles Arnold of Tacoma and is subject to further approval by the city fire, building and health departments. SC 9-14

PARKING GARAGES— Tacoma, Wash.

(Estimated cost $2,000 per parking space)

Plans have been proposed by a Chamber of Commerce committee in Tacoma for construction of a multi-level, ramp- type, self-parking, 418-car capacity garage fronting on Pacific Ave., between the Rust Bldg. and Washington Hardware, extending back over Commerce St. between 9th and 11th streets with access tunnels to Broadway. Car access would be from Commerce, with pedestrian access provided from both Pacific Ave. and Broadway. Plans by Gaston C. Lance, architect, 319 S. 7th, Tacoma. A similar facility was proposed by the committee between 11th and 13th streets from Pacific Ave. to Broadway; a third garage would also be necessary before long and the possibilty was mentioned of a multi-level garage over the existing Rhodes parking lot on Market St. The committee proposed that the garages be municipally operated and financed by revenue bonds. SC 9-14

● McKINLEY SCHOOL ADDITIONS— Tacoma, Wash.

Bids to be opened 8 p. m., October 22, by Tacoma School District No. 10, Toney Shelton, business manager, fifth floor, School Administration Bldg., Tacoma, for construction of an addition on stilts and a new wing to McKinley Elementary School, McKinley Ave. and E. 37th St., Tacoma. Separate bids on general, mechanical, electrical. Plans with John Hewett Sutton, architect, 916 Rust Bldg., Tacoma. $20 deposit for each set of plans. Certified check, cashier's check or bid bond 5%.

Project involves 136'x70' addition on stilts providing five classrooms, two kindergarten rooms; 125'x60' ground level addition to house multipurpose unit, kitchen, administrative wing. Classroom wing will be constructed on concrete beams and columns to provide play area below; above the structure will be frame with glued laminated beams, wood and brick exterior finish; metal sash, built-up roofing; drywall interior finish; acoustical ceilings; asphalt tile floor covering; extension of existing hot water heating system with unit ventilators. The multipurpose wing will have similar construction features. DC 9-18

ELEMENTARY, JUNIOR HIGH SCHOOLS— Tacoma, Wash.

(Estimated cost $190,124 elementary, $1,139,086 junior high)

State matching funds in the amounts of $51,010 and $614,960 have been approved by State Board of Education toward construction of an addition to Southgate Elementary School and a new junior high school, respectively, for Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma. SC 9-18

RESTAURANT— Union Gap, Wash.

(Estimated cost $13,000)

Construction underway by Jake Leingang, 3804 Summitview Ave., Yakima, for a 1,600 sq. ft. rustic type restaurant at Union Gap, for owner Gene Luisi. Frame floors; frame exterior wall paneling; built-up roofing; asphalt tile flooring; sheet rock walls; exposed beam ceilings; hot air oil fired heating system. IG 9-10

★SCHOOL STARTER UINTS— Vancouver, Wash.

Awards recommended by Evergreen School District No. 114, F. W. Martin, chairman, Superintendent's Office, N.E. 18th St., Route 1, Box 2725, Vancouver, for construction of the Ellsworth Elementary School, about five mi. east of Vancouver on Ellsworth Road, and the Sifton Elementary School, about 7 mi. northeast of Vancouver on N.E. 137th. Plans by Donald Eby, architect, 215 Adams Bldg., Vancouver. Signing of contracts is pending official state approval. AWARDS—GENERAL: Raley Construction Co., 4709 Evergreen Highway, Vancouver, $286,727. MECHANICAL: Wahl Plumbing & Heating Co., 615 W. 11th St., Vancouver, $36,700. ELECTRICAL: Viner Electric Co., 420 N.E. Russell St., Portland, $81,000. WB 9-17. Previous report 9-11

SUPERMARKET— Walla Walla, Wash.

(Estimated cost $250,000)

Construction to start soon by Kelly Construction Co., owner-contractor, Wilbur and University, Walla Walla, on a new 80'x150' supermarket to be located on E. Isaacs between Cascade Drive and Wilbur St. in the Eastgate district, Walla Walla. The building will be leased to Fleenors' Fine Foods, 1930 E. Isaacs, Walla Walla. Parking area for 200 cars will be provided. SC 9-7

SCHOOL ADDITIONS—Walla Walla, Wash.

Plans are being considered by Walla Walla School District No. 110, Arthur Jones, superintendent, Park St., Walla Walla, for an addition at Pioneer Junior High School and a multipurpose room at Jefferson Elementary School in Walla Walla. Preliminary planning for the two units were discussed by the school board with architects Brandt Gessel, 214 E. Birch, and Thomas O. Williams, 20 S.E. 3rd College Place, both Walla Walla. SC 9-18

ELEMENTARY SCHOOL ADDITION— Winslow, Wash.

Bids may be called late in November on a one-story, eight-classroom addition to the Captain Charles Wilkes elementary school on Bainbridge Island. Working drawings are nearly completed by Mallis & DeHart, architects, 613 Lyons Bldg., Seattle. Plans call for two buildings connected by covered walkways to existing school, with total floor area of approximately 17,000 sq. ft. Concrete slab-on-grade; steel columns; glued laminated beams, wood joists; tar and gravel surface on built-up roof; brick exterior; metal sash; concrete block, drywall partitions; asphalt tile, ceramic tile flooring; glass block skylight; extension of existing hot water heat system. Buildings will contain 8 classrooms, toilet facilities, storage room, multi-purpose room, administrative room, health unit.

PD 9-14. Previous report 7-9

SAFEWAY STORE— Yakima, Wash.

(Estimated cost $80,000)

Plans have been completed by Harold Hall & Associates, architects, 402 Commerce Bldg., Yakima, for construction of a one-story, 80'x135', concrete block and brick Safeway store at 4008-4010 Summitview Ave. in Yakima, for Safeway Stores, Inc., Holtzinger Bldg., Yakima. A building permit has been issued for the work but no contractor's name has been released as yet. Completion expected late this fall.

No basement included; reinforced concrete footings and foundations; concrete slab floors; glued laminated beams, steel posts; built-up roofing, masonry partitions, frame in offices; concrete stairways; steel windows; painted concrete block exterior, gypsum lath, plaster and paint interior wall finish; plaster and gypsum lath partitions; asphalt tile flooring; exposed beam ceilings; automatic Kawneer and sliding doors; sprinkling systems; 1½" rigid insulation in roof; gas heating system. IG 9-5

RESIDENCE— Yakima, Wash.

Working drawings underway by Ed Marble, architect, Miller Bldg., Yakima, for a residence to be located approximately five mi. west of Yakima, just south of Tieton Drive, for owner James Bronson, 702 S. 20th Ave., Yakima. Structure to include 2,000 sq. ft. basement and 4,300 sq. ft. main floor; concrete basement with plaster walls and concrete floors; cedar siding; painted brick roof, handsplit cedar shakes; frame floors; interior walls to be wood paneling and plaster; ceilings to be exposed decking and plaster; some terrazzo flooring, and either vinyl or asphalt tile; hot air oil-fired heating system; fireplace; three garages attached to building; swimming pool to be constructed in early spring. IG 9-7

★RESIDENCE— Yakima, Wash.

Contract negotiated with Hugh Templeton, 9th Ave. and Fruitvale Blvd., Yakima, approximately $100,000, by owner James Bronson, 702 S. 20th Ave., Yakima, for construction of a residence to be located approximately five mi. west of Yakima, just south of Tieton Drive. Plans by Ed Marble, architect, Miller Bldg., Yakima.

IG 9-13. Previous report 9-7

RESIDENCE— Yakima, Wash.

(Estimated cost $22,000)

Construction underway by Tilman Nelson, owner-contractor, 415 N. 52nd Ave., Yakima, on a brick and stone residence at 4002 Richey Road in Yakima. Building will have cedar shake roof; poured concrete foundation; partial basement; lath and plaster interior; mahogany woodwork; oak floors with carpeting, some tile and some linoleum flooring; oil-fired heating system. IG 9-14

RESIDENCE— Yakima, Wash.

(Estimated cost $20,000)

Working drawings underway by Champ Sanford, designer, 602 S. 5th Ave., Yakima, for a brick veneer residence with stone fireplace on Slavin Road in Yakima, for owner R. Willet, Slavin Road, Yakima. Poured concrete foundation; full concrete basement; plaster and paint interior walls; plaster and paint ceilings, frame floors with carpeting, vinyl tile and linoleum flooring; oil-fired warm air heating system. IG 9-14

■ RESIDENCE— Yakima, Wash.

Planholders announced for construction of a residence on Richey Road, Uplands Addition, Yakima, on which bids will be opened 2 p. m., September 27, in the office of Thomas F. Hargis, Jr., architect, Miller Bldg., Yakima. Owner is Tom Bostic Northwest Co., 302 Minnesota Ave., Yakima.

Planholders: Beaver & Drumwright, 1206 Cherry Ave., Yakima; Harold Corpman, 1106 S. 14th Ave., Yakima; W. B. Edmiston & Sons, 2512 S. 1st St., Yakima.

IG 9-14. Previous report 9-7

IDAHO

FIRST METHODIST CHURCH—Boise, Idaho

Preliminary plans underway by architects Harold Wagoner, Philadelphia, Pa., and Hummel, Hummel & Jones, 1324 Idaho St., Boise, for a new church to be located in the block bordered by 11th and 12th streets; Hays and Franklin, in Boise, for First Methodist Church, Marcell Learned, chairman of the executive committee, 1012 State St., Boise. Project will include 60' high sanctuary with 144' high steeple; small chapel; connecting cloister and religious educational units. Building will be Kansas limestone.

GH 9-18

ARMORY— Bonners Ferry, Idaho

Bids will be called early in 1958 by Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise,

for construction of a National Guard armory in Bonners Ferry. Plans by Hugh Richardson, architect, Weisgerber Bldg., Lewiston. GH 9-14

● **CLUBHOUSE— Burley, Idaho**

Bids will be opened 8 p. m., October 7, by City Council, City Hall, 14th and Overland, Burley, for construction of a 25'x75' masonry clubhouse at the Burley Golf Course. Plans with Harold Thompson, architect, 6001 Fairview, Boise. $25 deposit. Certified check, cashier's check or bid bond 5%. GH 9-14

OFFICE BUILDING FIRE— Coeur d'Alene, Idaho

(Estimated loss $250,000)

The four-story Powell Bldg., tallest structure in Coeur d'Alene, was badly damaged by fire on September 9. The roof and fourth floor were destroyed; third floor extensively burned and lower floors heavily damaged by smoke and water. SC 9-14

HOUSING— Cottonwood, Idaho

(Estimated cost $12,000 each unit)

Plans and specifications have been completed by U. S. Air Force for a 27-unit housing development at Cottonwood Butte radar station, about four mi. west of Cottonwood. Bids will be called as soon as a contract is negotiated with the village of Cottonwood to provide water and sewage facilities. Housing will include 20 three-bedroom houses for airmen's families, six three-bedroom houses for officers' families and a four-bedroom officer's billet. SC 9-18

ELKS LODGE FIRE— Idaho Falls, Idaho

(Estimated loss $100,000)

Fire of undetermined origin damaged the three-story brick Idaho Falls Elks Lodge on September 7. The fire burned out the lounge on the main floor, continued through the assembly hall on the top floor and burned a hole 20' in diameter in the roof. SC 9-14

ARMORY— Grangeville, Idaho

Working drawings completed by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston, for construction of a National Guard armory in Grangeville, for Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise. Bids will be called early in 1958. GH 9-14

● **HOUSING UNIT REMOVAL— Lewiston, Idaho**

Bids will be opened 7:30 p.m., September 30, by A. M. Quane, city comptroller, City Hall, Lewiston, for complete removal of three temporary housing units located at 11th Ave. and 5th St. in Lewiston. Specifications with above office. Units may be inspected by contacting Frank McNeil, caretaker, at the housing area.

Buildings to be reduced to not greater than flat panels for removal. All debris is to be cleaned up including all foundations, concrete slabs, sidewalks and fuel boxes. Sewer connections to be plugged with concrete. Ground to be leveled when all removal has been completed. SC 9-14

HEALTH BUILDING— Lewiston, Idaho

Special election will be held in November by Nez Perce County Commissioners, Courthouse, Lewiston, on a propsed 2-mill levy to finance construction of a 150'x30' health building to be located west of the courthouse, facing F St., in Lewiston, for North Central District Health Department, Lewiston. Remainder of the cost would be paid by Hill-Burton funds. Plans by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston. Bids will be called after January 1, 1958, for the building which will have exterior of transite panels and brick. GH 9-18

HOSPITAL ADDITION— Lewiston, Idaho

(Estimated cost $100,000)

Preliminary plans underway by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston, for an addition to the southwest wing of St. Joseph's Hospital, for St. Joseph's Hospital Community Foundation, John Ernsdorff, business manager, 4th Ave. and 6th, Lewiston. GH 9-18

GENETICS CENTER— Moscow, Idaho

Bids rejected by U. S. Forest Service, 1036 Federal Bldg., Missoula, Mont., for construction at the North Idaho Forest Genetic Center involving an office-laboratory building, greenhouse-potting house and garage in Moscow. The job will be readvertised later. The low bidder at the August 26 bid opening was Walter M. Varnum, Box 983, Coeur d'Alene, Idaho, $65,057. LL 9-17. Previous report 9-5

● **COURTHOUSE— Moscow, Idaho**

(Estimated cost $400,000)

Bids will be opened 4 p.m., October 1, by Latah County Commissioners, Courthouse, Moscow, for construction of a new two-story with partial basement, 27,000 sq. ft. courthouse at Moscow. Plans with Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise, or O'Connor Bldg., Suite 12, Moscow. $50 deposit. GH 9-14. Previous report 8-16

STUDENT UNION BUILDING— Moscow, Idaho

Preliminary plans underway by Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise, for an extension of the existing student union building to a block-long area to the north of the present structure and an ice skating rink at the University of Idaho in Moscow. Bids will be called by Department of Public Works, State House, Boise. GH 9-18. Previous report 4-17

● **LIGHTING, MISCELLANEOUS ALTERATIONS— Moscow, Idaho**

Bids to be opened 3 p. m., P.S.T., September 30, by General Services Administration, Room 126, Federal Office Bldg., Seattle, for miscellaneous alterations and lighting at the U.S. Post Office and Court House in Moscow, Idaho; SEA-883. Plans with Design and Construction Division, 909 1st Ave., Seattle. DM 9-18

● **SCHOOL ADDITION— Mullan, Idaho**

Bids will be opened 7 p. m., October 8, by Shoshone County School District No. 392, at the Mullan High School, Mullan, for construction of a block masonry unit shop, music and classroom addition to the school. Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane, after September 16. $25 deposit.

Concrete slab on grade; glued laminated wood frame roof; wood deck; wood and steel combination sash; asphalt tile flooring; metal and wood doors; exposed block walls with some cement-asbestos paneling; metal toilet partitions; acoustical tile ceilings; plastic skylights; fluorescent lighting; rigid insulation in roof; unit ventilators. Contract to include new heating plant to serve the present building and the new building, utilizing coal-fired boiler. LL 9-14

MONTANA

LUTHERAN CHURCH— Billings, Mont.

Newly organized Lutheran Church of Billings Heights, Rev. Emil Dockter, pastor, Billings, has voted to purchase a site in the Billings Heights area northeast of Billings for construction of a new church. Fund raising campaign is underway. EE 9-14

● **SANITATION OFFICE— Billings, Mont.**

Bids will be received until 5 p. m., October 1, in the office of the city clerk, City Hall, Billings, for construction of a sanitation department building on the sanitary land fill south of the city. Plans with city engineer, City Hall. Certified check or bid bond 5%. EE 9-17

▲ **BUILDING REMODELING—Billings, Mont.**

Bids received by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., for remodeling the Post Office Building at Billings. Bids opened September 16. LOW BID: Pederson Construction Co., 2925 Ronan Drive, Billings, $110,135. OTHER BIDS: R. H. Haley, Box 173, Moscow; Lowe Construction Co., Box 883, Billings, $113,400; J. C. Boespflug, Box 1237, Billings, $123,080; H. L. Grohne, 2594 N. Water St., Decatur, Ill., $153,956. PD 9-18. Previous report 9-7

★ **STEEL BUILDING— Billings, Mont.**

Award announced by City Council, City Hall, Billings, for furnishing a 4,800' steel building to be erected at Public Works Site, 302 Edwards St., Billings. Bids opened September 10. AWARD: R. L. Stratford & Co., Laurel Road, Billings, $11,690. 2ND LOW: Armco Drainage & Metal Products Co., Industrial Site, Billings, $12,498; Western Ranch Supply, 1406 1st N., Billings, $14,343. EE 9-18. Previous report 8-27

★ **BANK— Browning, Mont.**

Award announced by First National Bank of Browning, Faithe Bercovich, president, Browning, for construction of a one-story, 50'x60', brick and stone bank building in Browning. Plans by McIver, Hess & Haugsjaa, architects, Strain Bldg., Great Falls. AWARD: Hi Aubrey, Inc., Box 257, Shelby, $50,416. OTHER BIDS: Frates Construction Co., 424 Rimrock Road, Billings, $53,691; Zion Construction Co., 3016 5th Ave. N., Great Falls, $56,000; Ehlert Construction Co., Cut Bank, $63,737. SC 9-14

★ **ELEMENTARY SCHOOL— Circle, Mont.**

Award announced by McCone County School District No. 1, Circle, for mechanical work on the new elementary school at Circle. Plans by Drake & Gustafson, architects, Empire Bldg., Billings. AWARD: Cummings Plumbing and Heating, Glendive, $17,890 (base bid) plus $1,326 (alternate). Other base bids were: Frisby Plumbing and Heating, 212 Grand Ave., Billings, $18,500; Morrow Plumbing and Heating, Baker, $22,000; Peterson Sheet Metal, Glendive, $19,450. Bids were opened September 6. EE 9-17. Previous report 8-27

BOWLING ALLEY— Deer Lodge, Mont.

(Estimated cost $35,000)

Excavation underway for a pumice block bowling alley which will face 4th St. between Montana and Milwaukee avenues in Deer Lodge, for Kenneth Colbo of Deer Lodge. The building will house a soft drink, candy and cigarette counter, modern rest rooms, storage space and a large locker area in addition to two rows of spectator seats. The building will be completed between October 20 and November 1. SC 9-13

HOSPITAL— Fort Benton, Mont.

(Estimated cost $427,000)

Fund drive will start soon to raise $210,000 to aid in financing construction of the proposed one-story, masonry, 27-bed St. Clare Hospital at Fort Benton. Plans by Bordeleau-Pannell & Amundson, architects, 309 1st Ave. N., Great Falls. The balance of the money required for the project will be provided by a federal government grant. The proposed building will have a brick exterior and concrete floor glass, and a maximum capacity of 32 beds. SC 9-14

GARAGE FIRE— Glasgow, Mont.

(Estimated loss $80,000)

Reconstruction is being considered by building owner Alfred Kolstad, Glasgow, for the Jerome Buick Garage building in northwest Glasgow which was damaged by fire. The owner estimated his loss at $45,000 including damage to the structure and some of the garage equipment. Roy Jerome, operator of the motor agency and a service station business, estimated his loss at $35,000. The front frame section, housing offices, the service station, restaurant and upstairs office space and an apartment, was almost completely burned. The metal rear shop section was partially burned. SC 9-18

LODGE IMPROVEMENTS— Glacier National Park, Mont.

Remodeling and redecorating work will be resumed soon by Knutson Corp., operator of Glacier Park Co., Minneapolis, Minn., at East Glacier Park lodge in Glacier National Park. Work will include installation of private bathrooms for all rooms and suites in the lodge; conversion of large storage room into modern convention hall; furnishing acoustical tile ceiling and serving kitchen for a convention hall built last spring;

construction of two additional tennis courts on back lawn; painting of main lodge and other buildings; installation of new lighting.

●BOILER, BURNER REPAIRS— **Helena, Mont.**

Bids will be opened 3 p. m., September 26, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for boiler and gas burner repairs at the Federal Office Bldg. in Helena; Proj. No. SEA-880. Specifications with above office. SP 9-14

★RESIDENCE— **Heron, Mont.**

Award to Linebarger Construction Co., Inc., 5407 N.W. Boulevard, Spokane, (estimated cost $10,000) by Washington Water Power Co., Spokane, for construction of a five-room teacher residence for the western Montana school district at Heron. The project is part of the program by WWP to assist in providing housing and schools necessitated by population increase as a result of the Noxon Rapids dam construction.

●HEATING, VENTILATING— **Lame Deer, Mont.**

Bids will be opened 2 p. m., September 24, by Bureau of Indian Affairs, Area Director's Office, 804 N. 29th St., Billings, for heating and ventilating headquarters building, Northern Cheyenne Agency, Lame Deer. Specifications with above office. EE 9-14

CREDIT UNION OFFICE BUILDING— **Whitefish, Mont.**

(Estimated cost $20,000 to $25,000)

Bids will be called about the last part of September by Whitefish Credit Union Association, 416 2nd St., Whitefish, for construction of a one-story, 25'x110' office building located at lot 13, block 36 in Whitefish. Plans by Richard Taylor, 830 Woodland Ave., Kalispell. $25 deposit. Certified check, cashier's check or bid bond 5%.

Cinder block construction; concrete ground area; hot water heating; tile flooring; tar roofing.

LB 9-18. Previous report 8-24

ALASKA

MULTIPURPOSE SCIENCE BUILDING— **College, Alaska**

(Estimated cost $2,250,000)

Bids may be called soon for construction of a four story, 80,000 sq. ft. multipurpose science building at the University of Alaska in College. Bid opening date will be determined by Alaska Public Works, Juneau. Working drawings are underway 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 foundation; 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; wood cabinets; folding doors, plass panels and blackboards; baseboard central heating; ventilation system; anemostat air conditioning. LB 9-18. Previous report 8-31

RAILROAD DEPOT— **Fairbanks, Alaska**

(Estimated cost $150,000 to $200,000)

Bids will be called in 1958 by Alaska Railroad, J. H. Lloyd, general manager, Anchorage, for construction of a frame and masonry depot at Garden Island terminal yards in Fairbanks. Architect has not been selected. Building to have steam heating system, concrete and wood floors and built-up roofing. SP 9-14. Previous report 8-22

▲OIL STORAGE TANK— **Juneau, Alaska**

Bids received by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., for removal of existing tank and furnishing and installing a 7'x21' oil storage tank with 6,000 gal. capacity, at the Federal and Territorial Bldg., Juneau. Bids opened September 16. LOW BID: Lent's, Inc., 279 4th St., Bremerton, $6,850. ONLY OTHER BIDS: C & R Builders, Inc., 1619 8th Ave. N., Seattle, $8,025; Zimmer Heating Sales & Engineering, 416 E. 72nd, Seattle, $8,842. PD 9-18

★BANK— **Sitka, Alaska**

Award to Western Construction Co. and Hieberg Contracting, Sitka, $124,000, by First Bank of Sitka, for construction of a one- and one-and-a-half story 38'x90' bank building at Sitka. Plans by Foss, Olsen & Sands, architects, Box 2331, Juneau.

JU 9-13. Previous report 8-17

ENGINEERING NEWS

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

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

OREGON

●DRILLING WELL— **Aloha, Ore.**

Bids will be opened 8 p. m., September 24, by Aloha-Huber Water District, Earl J. Thompson, chairman, Water District Office, 17880 S.W. Blanton St., Aloha, for drilling, casing and testing a 16" well. Specifications with Elden W. Carter, consulting engineer, 1207 Portland Trust Bldg., Portland. $25 deposit. Bid bond or certified check $500. WB 9-18

●LANDSCAPING— **Astoria, Ore.**

Bids will be opened 11 a. m., September 25, by School District No. 1-C, Clatsop County, T. A. Wells, superintendent-clerk, City Hall, Astoria, for landscaping at Astoria High School, including establishing lawns, installation of sprinkler system, shrub and tree planting, concrete terracing, grading and draining. Plans with David E. Thompson, lanscape architect, 319 Davis Bldg., Portland. $10 deposit. Certified check or bid bond 10%. WB 9-14

▲EARTHWORK, CANAL LINING, STRUCTURES— **Camp White, Ore.**

Bids were opened September 12 by Bureau of Reclamation, J. A. Callan, construction engineer, Box 386, Camp White for earthwork, concrete canal lining and structures at Howard Prairie Delivery Canal near Ashland in Jackson County, Station 539+00 to Station 986+75 and Little Beaver Creek Canal, Talent Division, Rogue River Basin Project, Ore.; Spec. No. DC-4947. LOW BIDS: Cherf Bros. and Sandkay Contractors, Inc., Box 938, Ephrata, $1,285,507; Peter Kiewit Sons' Co., 405 E. Main St., Medford, $1,367, 630; Hall-Atwater, Inc., and White Bros. Construction Co., Terminal Box 3361, Seattle, $1,513,273 (joint venture).

SP 9-13. Previous report 8-3

●BRIDGE— **Clatskanie, Ore.**

Bids to be received until 8 p. m., September 23, by R. J. Pascoe, city recorder, City Hall, Clatskanie, for construction and installation of a bridge across the Clatskanie River. Plans with above office. $5 deposit. The city has on hand steel trusses that will be used in the bridge. The contractor will be required to supply other materials and to construct the bridge. DC 9-18

●CRUSHED STONE SURFACING— **Cougar Reservoir, Ore.**

Bids to be opened 2 p. m., P.S.T., September 24 by Corps of Engineers, 628 Pittock Block, Portland, for construction of relocated U. S. Forest Service West Side Road, Annie Creek to Upper End at Cougar Reservoir on the South Fork McKenzie River about 10 mi. south of town of Blue River, Lane County, Ore.; CIVENG-35-026-58-24. Plans with above office. Bid bond 20%. Completion time November 1, 1958. Description—base and crushed stone leveling courses on roadways and stockpiling leveling course material; clearing and grubbing; excavation and embankment; backfill; placing corrugated structural plate pipe.

DM 9-17

▲ROAD RELOCATION— **Cougar Reservoir, Ore.**

Bids received by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Dam to Annie Creek, Cougar Reservoir, South Fork McKenzie River, about 8 mi. south of Blue River, Lane County, Ore.; CIVENG-35-026-58-20. Bids opened September 12. LOW BIDS: J. W. Briggs & Associates, 1825 California, Redding, Calif., $1,527,020; Peter Kiewit Sons' Co., Box 1777, Vancouver, $1,651,440; K. L. Goulter & Sons, 4303 E. 35th Ave., Seattle, $1,684,640.

WB 9-13. Previous report 9-5

WATER STORAGE DAM— **Dallas, Ore.**

(Estimated cost $250,000 to $275,000)

Preliminary work has been started in preparation for construction of a water storage dam on Rickreall Creek, 9 mi. northwest of Dallas, according to Lynn McCulley, city superintendent, City Hall, Dallas. Soundings and core drill preparations are underway by crews associated with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. If conditions at the present site prove unfavorable, an alternate site two miles downstream will be investigated.

Plans call for a dam approximately 60' high which will impound a minimum of 410,000,000 gal. water. An alternate plan being studied would involve the Soil Conservation Service and the Small Water Shed Act. Under this plan, a larger dam would be built, with Dallas paying a cost equivalent to that of the smaller dam. The city will be required to hold a bond election to raise funds for the project.

SC 9-18. Previous report 6-27

★WATER SYSTEM (PHASE 2)— **Empire, Ore.**

Award announced by City Council, City Hall, Empire for second phase of a water system expansion project to serve the new naval installation at Coos Head Park, involving construction of water main from east city limits of Empire through the city and south along Cape Arago State Highway to point east of Charleston small boat basin, and from there crossing Coos Bay and extending westerly to Coos Head. Plans by R. H. Erichsen, consulting engineer, 409 N. Fourth Court, Coos Bay. AWARD: Everett Den Herder, 3995 State St., Salem, $225,637. OTHER BIDS: Henry Den Herder, Lebanon, $237,414; Hanning & Gonzales, Portland, $279,484; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland, $283,335. Bids opened September 10.

DC 9-17. Previous report 8-29

●BANK PROTECTION REPAIR— **Grants Pass, Ore.**

Bids will be opened 2 p. m., October 1, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for repair and construction of bank protection works along the left bank of the Rogue River at Pierce

Riffle Location, about 4 mi. east of Grants Pass, Josephine County, Ore.; CIVENG-35-026-58-40. Specifications with above office. Bid bond 20%.

Quantities: 5,000 c.y. excavation; 9,900 c.y. embankment from borrow; 8,000 c.y. derrick-stone revetment. SP 9-14

★FISH SCREEN STRUCTURES— Grants Pass, Ore.

Award to Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $126,452, by Bureau of Reclamation, Box 386, Camp White, Ore., for construction of fish screen structure for Savage Rapids Dam, Grants Pass Project, Ore.; DC-4910. DM 9-18. Previous report 8-28

▲ROAD RELOCATION— Hill Creek Reservoir, Ore.

Bids received September 17 by Corps of Engineers, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Dam to Packard Creek section at Hills Creek Reservoir, Middle Fork Willamette River about 4 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-58-18. LOW BIDS: K. L. Goulter & Sons, 3419 16th W., Seattle, $1,509,290; McCammon - Wunderlich Co., Palo Alto, Calif., $1,666,615; Darhenwald Construction Co. and Harms Bros., Sacramento, Calif., $1,675,829. WB 9-18. Preivous report 9-5

★TRUNK, INTERCEPTOR SEWERS— Klamath Falls, Ore.

Subcontract award to Peyton & Co., 835 Market St., Klamath Falls, by general contractor Bessonette Construction Co., Medford, for furnishing 20,000' of concrete pipe for the new interceptor sewer system being installed at Klamath Falls. The company is making 10,000' of 12" to 18" concrete pipe in 3' lengths and subcontracting for 10,000' of 21" to 36" concrete pipe in 10' lengths from Idaho Concrete Pipe Co., Nampa, Idaho. ZZ 9-14. Previous report 7-19

★WELL DRILLING— Oak Creek Guard Station, Ore.

Award to Gilbert Pruitt, Route 4, Corvallis, $375, by Department of Finance & Administration, 1225 Ferry St., Salem, for well drilling at the Oak Creek guard station, McDonald Forest, Benton County, Ore. Bids opened August 27. CP 9-14. Previous report 8-21

★BANK PROTECTION— Oakridge, Ore.

Award to Harbert Bros., Route 1, Box 7, Estacada, $36,280, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for bank protection on Mile 5 on Oakridge-Lookout Point 115 kv. line; Inv. 8525. WB 9-18. Previous report 9-10

★TIMBER BRIDGES— Portland, Ore.

Award to General Construction Co., 4850 N.W. Front Ave., Portland, $16,969, for removing and replacing two timber stringer bridges at N.E. 105th Ave. and N.E. 138th Ave., both about one-fourth mile north of Sandy Blvd. WB 9-13. Previous report 8-22

●GRADING— Portland, Ore.

Bids to be opened 10 a. m., October 1, by Bureau of Public Roads, B. M. French, regional engineer, 753 Morgan Bldg., Portland, for grading 0.815 mi., Oregon Forest Highway Project 3-A2, Oregon Coast Highway, Siuslaw National Forest, Tillamook County, Ore. Plans with above office.

Quantities: 23 acre grubbing; 886,000 c.y. excavation; 1,000,000 sta. yd. overhaul; 4,300' culvert pipe. DM 9-17

★CRUSHED ROCK STOCKPILING— Portland, Ore.

Award by Bureau of Public Roads, 753 Morgan Bldg., Portland, for stockpiling 10,000 c.y. crushed rock, Oregon Timber Access Road Proj. BLM 680 - B, Spur Roads to Smith River Road, Bureau of Land Management-Coos Bay District, Douglas County, Ore. AWARD: F. H. McEwen, 1673 Villard St., Eugene, $25,000. OTHER BIDS: L. R. Kauffman, Box 15, Waldport, $29,000; Beckley & Thomas, 1547 S.E. Jackson St., Roseburg, $34,500; Harold G. Lavelle, 10430 S.E. Bush St., Portland, $37,400. Bids opened September 10. WB 9-13. Previous report 9-6

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards were made on 11 projects; bids were referred to engineer for award on three jobs at the September 12 bid opening of the Oregon State Highway Commission in Portland.

SANDY-ALDER CREEK GRADING, PAVING—Grading, paving 8.43 mi. and furnishing material in stockpile on Mt. Hood Highway east from Sandy, Clackamas County; FAP No. F-156(6). The bid of Rogers Construction Co. and Rogers Construction Co., Inc., 11760 N.E. Glisan, Portland, $1,704,932, was referred to engineer for award.

FORT STEVENS CAMP EXPANSION—Construct camping areas and roadways at Fort Stevens Park Overnight Camp west of Astoria, Clatsop County; a State Project. AWARD: Grimstad & Vanderveldt, 1497 9th, Astoria, $25,084.

TUMALO CAMP EXPANSION—Construct camping areas and roadways at Tumalo Park Overnight Camp, Deschutes County; a State Project. AWARD: McNutt & Sons, Inc., 510 E. Browning, Salem, $10,487.

BURNS GRADING, SURFACING—Grading 5.92 mi., stone surfacing 6.88 mi. on Burns Mountain Road, Burns Air Force Station Access Road, Harney County; FAP No. R-AD-6(2). AWARD: F. L. Somers, Box 668, Medford, $177,565.

CASCADE LOCKS SAND SHED—Construct 60'x63' frame sand storage shed on State Highway Commission property on Columbia River Highway in Cascade Locks, Hood River County. AWARD: Gilbert-Roberts Contractors, Route 4, Box 419, Hood River, $7,472.

ECKMAN SLOUGH GRADING, OILING—Grading, oiling 0.16 mi. and construct reinforced concrete structure on Alsea Highway about 2.3 mi. east of Waldport, Lincoln County; FAP No. S-229(5). The bid of Pacific Concrete Co., 10401 N.E. Marx, and Parker & Fuhrman Co., 11524 S.E. Foster, Portland, $68,421, was referred to engineer for award.

MILL CREEK BRIDGES—Construct 148' reinforced concrete deck girder bridge over Mill Creek and widen existing 100' Mill Creek Overflow Bridge by 59' on Salem By-pass section of Pacific Highway, Marion County; FAIP No. I-324(16). AWARD: Hamilton & Thoms, Box 726, Eugene, $72,186.

OVERCROSSING WIDENING, SILVERTON VICINITY —Widen Silverton Road, Sunnyview Ave., Garden Road and State St. overcrossings, all of which are 144' reinforced concrete, to provide for future southbound lanes, on Salem By-pass section of Pacific Highway, Marion County; FAIP No. I-324(16). AWARD: Hamilton & Thoms, Eugene, $209,777.

OVERCROSSING WIDENING, TURNER SECTION—Widen existing reinforced concrete overcrossings on Turner Road, Market Road 56 and Boone Road, to provide for future southbound lanes, Marion County on By-pass section of Pacific Highway, FAIP No. I-324(16). AWARD: H. G. Carl Construction Co., 1210 S. 22nd, Salem, $115,895.

S.W. SPRING GARDEN ROAD UNDERCROSSING—Construct 188' reinforced concrete box girder undercrossing on Harbor Drive-Washington County line section of Pacific Highway in Portland, Multnomah County; FAIP No. I-303(16). AWARD: Johnston & Bryant, Newberg, $126,778.

ROADSIDE IMPROVEMENT—About 18,500 c.y. excavation, irrigation system, 580 ton asphaltic concrete; 810 rods fence, plantings on Union Ave.-42nd Ave. section of Columbia River Highway (Banfield Expressway), Multnomah County; FAIP No. I-323(24). AWARD: E. P. Baltz & Son, Portland, $99,703.

MEACHAM-GLOVER PAVING—Asphaltic concrete paving 9.88 mi. on Old Oregon Trail Highway about 2 mi. southeast of Meacham, Umatilla and Union counties; FAIP No. I-62-(13). AWARD: Rogers Construction Co., Portland, $1,274,927.

FLORA SPUR SECTION GRADING, STONE BASE—Grading and stone base 2.68 mi. and furnishing crushed materials in stockpile on Flora Spur Road about 34 mi. north of Enterprise, Wallowa County; FAP No. S-361(1). The bid of J. F. Konen, Lewiston, Idaho, $71,372, was referred to engineer for award.

ILLUMINATION—Furnish, install highway illumination at traffic interchange on Three Mile Lane Highway at Dayton, Yamhill County; FAP No. S-96(4). AWARD: Steeck Electric Co., 633 S.E. Stephens, Roseburg, $10,432. DM 9-14. Previous report 9-13

★SPRINKLER SYSTEM— Portland, Ore.

Award to C. M. Corkum Co., 2630 S.W. 2nd Ave., Portland, $49,480, by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for installation of a sprinkler system under Pier 5, Terminal No. 4. This was added to the contract awarded to the firm last month for rehabilitation of the substructure and deck of the slip berth at the pier. (See Berth Rehabilitation, 8-16.) WB 9-18

●DUMP TRUCKS— Portland, Ore.

Bid opening postponed from September 12 to 10:30 a. m., October 22, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing eight heavy duty dump trucks for road department. Specifications with purchasing agent. Certified check or bid bond 10%. (Later date will allow bids on 1958 models.) WB 9-18. Previous report 9-5

●BROOM WIRE— Portland, Ore.

Bids will be opened 2 p. m., September 24, by city purchasing agent, 208 City Hall, Portland, for 20 tons flat spring steel broom wire for Bureau of Maintenance. Certified check or bid bond 10%. WB 9-18

★STATE HIGHWAY PROJECTS— Salem, Ore.

Awards made on eight projects, bids rejected on one job, and bids referred to engineer for award on two projects by the Oregon State Highway Commission, on construction on which bids were opened in Salem, August 30.

STOCKPILING — BAKER - UNIT HIGHWAY: Unity Junction-Mill Creek Rock Production Project about 26 mi. southwest of Baker, Baker County, involving 10,000 c.y. crushed materials in stockpile; a State Project. AWARD: E. H. Itschner Co., Box 316, Molalla, $29,500.

BEAR CREEK, ROCK CREEK BRIDGES—Construction of 145' main roadbed and 130' bridge over Rock Creek on County Road FAS 813, and 275' bridge over Rock Creek and 75' bridge over Bear Creek on County Road FAS 912, south of Canby, Clackamas County; FAP Nos. S-352(1) and S-351(1). AWARD: Hamilton & Thoms, Box 726, Eugene, $95,336.

DEEP CREEK, CLEAR CREEK BRIDGES—Construction of 350' main roadbed and 156' bridge over Deep Creek near Boring and 270' main roadbed and 130' bridge over Clear Creek near Fishers Mill, County Road FAS 808 and 809, Clackamas County; FAP Nos. S-351(1) and S-269(2). AWARD: Rogers Construction Co., Inc., 11760 N.E. Glisan, Portland, $63,297.

SCAPPOOSE CREEK BRIDGES—Construction of 66' reinforced concrete and timber bridge over the North Fork of Scappoose Creek and an 84' reinforced concrete and timber bridge over the South Fork of Scappoose Creek, Scappoose-Pittsburg Road, Columbia County; FAP No. S-77(7). AWARD: Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $32,681.

GRADING, PLANTING—PACIFIC HIGHWAY: Fairgrounds Interchange (Roseburg) Roadside Improvement Project. Douglas County; FAIP No. 1-78(36). Bids rejected as too high.

GRADING, OILING — HOOD RIVER COUNTY: Grading and oiling 4.51 mi. on four county roads near Hood River and Parkdale; FAP Nos. S-357(1), S-355(1) and S-356(1). AWARD: Rex C. Ayers and Silver Falls Trucking Co., 7305 N.E. 29th, Portland, $93,636.

STOCKPILING—MT. HOOD, HOOD RIVER HIGHWAYS: Parkdale Rock Production Project, south of Hood River, requiring 11,500 c.y. crushed materials in stockpile, Hood River County. AWARD: Vernie Jarl, 438 S. Roberts, Gresham, $46,440.

GRADING, CULVERT, CONCRETE BRIDGE — NORTHEAST OF CRESWELL: Grading 2.01 mi., oiling 2.31 mi., placing of materials in stockpile, construction of reinforced concrete box culvert and 68' concrete bridge on Cloverdale - Coast Fork Bridge Section of Springfield - Creswell Secondary

Highway, about 1.5 mi. northeasterly of Creswell, Lane County; FAP No. S-358(2). The bid of F. H. McEwen, 1673 Villard, Eugene, $154,957, was referred to engineer for award.

REINFORCED CONCRETE BRIDGES—YAQUINA BAY: Construction of three reinforced concrete bridges over arms of Yaquina Bay on North Bank County Road near Toledo, Lincoln County; FAP No. S-359(1). AWARD: R & M Construction Co., 136 Main, Central Point, $33,609.

SLOPE PAVING—PORTLAND: Construction of 1,125 sq. yd. slope paving on south earth slopes of the 21st, 28th, 33rd and 39th Ave. undercrossings on the T. H. Banfield section of Columbia River Highway, Multnomah County; FAIP No. 1-323(24). AWARD: Pacific Concrete Co., Portland, $8,925.

GRADING, PAVING—PORTLAND: Involves 0.15 mi. grading and 0.48 mi. paving, Hancock St.-Multnomah St. and Stephens St. (Portland), Pacific Highway East (northbound) on Grand and Union avenues in Portland; FAP No. U-130(8). The bid of Cascade Construction Co., Foot of S.W. Abernathy, Portland, $24,259, was referred to engineer for award.

RUFUS MAINTENANCE BUILDING: Construction of 32'x83' masonry block building on State Highway Commission Property at Rufus, Sherman County; a State Project. AWARD: Decatur & Maerz, 970 S. Commercial, Salem, $16,584.

GRADING, TOPPING—UMATILLA COUNTY: Involves 9.99 mi. grading and topping, Ukiah-Forest Boundary section of Ukiah-Hilgard Secondary Highway, west end, about 50 mi. south (along US395) from Pendleton; FAP No. S-57(5). AWARD: K. C. Dack Construction Co., Box 35, Milton-Freewater, $119,200.

REINFORCED CONCRETE UNDERCROSSINGS—OLD OREGON TRAIL: Construction of 121' reinforced concrete undercrossing at Glover and a 250' reinforced concrete and structural steel undercrossing at Kamela on Meacham-Glover section of the Old Oregon Trail, Umatilla and Union counties; FAIP No. 1-62(11). AWARD: R. H. Jones, Hillsboro, $146,431. DM 9-14. Previous report 8-31

★TERMINAL ADDITION—Tillamook, Ore.

Award to Olson Electric Co., P. O. Box 830, Vancouver, $8,600, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Tillamook substation 115-kv Beaver Line terminal addition, at the junction of the Wilson River Highway (Oregon State Highway No. 6) and Evergreen Drive, which is about one mi. east of U.S. Highway 101 in Tillamook, Tillamook County, Ore.; Inv. No. 8486.
WB 9-14. Previous report 8-29

WASHINGTON

PUD BUDGET— Aberdeen, Wash.

A preliminary budget of $3,015,000 for 1958, 5% in excess of this year's estimated revenue, is being studied by Grays Harbor PUD Commissioners, 217 H St., Aberdeen. The budget provides for a continuing expansion of the PUD operation to meet anticipated power requirements. Public hearing on the budget will be held October 7. Included in the budget is $1,080,000 for purchase and production of power, and $280,000 for transmission and distribution expense. SC 9-17

▲UNDERWATER PIPELINE— Anacortes, Wash.

American Pile Driving Co., Inc., Pier 2, Everett, $64,500, submitted the only bid received by City Council, City Hall, Anacortes, on September 10 for construction of 600' of submarine pipe line crossing, a part of the city water system. Plans by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.
PD 9-13. Previous report 9-4

SEWERS, SEWAGE TREATMENT PLANT— Arlington, Wash.

Preliminary plans for installation of a comprehensive storm and sanitary sewer system for City of Arlington, have been presented by consulting engineers, Gray and Osborne, 228 S. 2nd St., Yakima. Costs of the projects are as follows: sanitary sewers system, $261,000; sewage treatment plant, $67,900; storm sewers, $61,700; engineering, land acquisition and incidentals, $47,000. Further plans and specifications will follow.
HH 9-18

★STORM SEWER DRAIN—Bellevue, Wash.

Award to Thorburn & Logozo, 4608 36th S.W., $29,554 (alt. A mortar joints), by City Council, City Hall, Bellevue, for furnishing and installing storm sewer drain in LID 56-D-04, Bellevue. Specifications by Irving Rodley, city engineer, 995 Main St., Bellevue.
PD 9-12. Previous report 8-15

★STREET IMPROVEMENT— Centralia, Wash.

Award to Pacific Sand & Gravel Co., Box 628, Centralia, $87,668, by City Council., City Hall, Centralia, for widening and resurfacing on W. 1st St. in Centralia.
SC 9-17. Previous report 9-11

★TURF SPRINKLERS— Chehalis, Wash.

Award to Brodin's Landscape Service, Chehalis, $5,811, by City Council, City Hall, Chehalis, for construction of a sprinkler system to irrigate turf areas in the baseball-football field at Borst Park, Centralia. Bids opened August 27.
SP 9-10. Previous report 8-17

★SURGE TANK PAINTING— Chelan Falls, Wash.

Award to Valley Paint Co., 207 Yakima, Wenatchee, $2,467, by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for exterior painting of surge tank at the Lake Chelan Power Plant, Chelan Falls.
DM 9-17. Previous report 9-10

●TRANSMISSION LINE— Chief Joseph Powerhouse, Wash.

Bids will be opened 2 p. m., September 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Chief Joseph Powerhouse-Switchyard 230-kv line No. 1, Douglas County, Wash.; Inv. No. 8534. Specifications with above office. $15 deposit. Bid guaranty 25%.

Quantities: 12 grillage, grouted and concrete footings; 50 c.y. common excavation; 50 c.y. rock excavation; 20 c.y. concrete; 200 lb. reinforcing steel; 500 lb. structural steel; 10 c.y. adjustment for rock excavation.
SP 9-17

●■ACCESS ROAD REPAIR— Colville, Wash.

Bids will be opened 2:30 p. m., October 4, by U. S. Air Force, Procurement Office, Geiger Field, for repair of access road at the 760 ACWROM in the vicinity of Colville. Specifications with above office.

Planholders: Charles N. Boyd, Kettle Falls; United Paving Co., Inc., Route 4, Box 150, Spokane; L. W. Vail Co., Inc., Box 847, Pasco; F. R. Hewett Co., Box 36, Parkwater Station, Spokane; D. A. Sullivan, Box 37, Parkwater Station, Spokane; Lewis Hopkins Co., Box 930, Pasco; M. F. Castle Co., N. 10503 Division, Spokane; K & P Excavating Contractors, Inc., 8017 E. Cataldo, Spokane; S & F Construction Co., Inc., Route 2, Spokane; Inland Asphalt Co., 10th and Havana, Spokane.
LL 9-17

★EARTHWORK, LINING, STRUCTURES— Ephrata, Wash.

Award to Duncan Construction Co., Box 582, Moses Lake, $139,858, by Bureau of Reclamation, Box 368, Ephrata, for earthwork, concrete lining and structures, Block 401 laterals, about 10 mi. north of Moses Lake, Grant County, Wash.; Spec. No. 117C-454.
SP 9-17. Previous report 8-28

TRESTLE— Everett, Wash.

Additional description follows on construction of an 8,000' pile trestle to carry 48" transmission line from Ebey Slough area to a point near the east bank of Snohomish River. Bids will be opened 10 a. m., October 14, by City Council, John L. Sugars, city clerk, City Hall, Everett. Plans with John W. Cunningham & Associates, 1112 Portland Trust Bldg., Portland, Ore. $15 deposit. Certified check 5%. Alternate bids will be received for cedar and creosoted piling.

The trestle will be located across the Snohomish River flats, adjacent to Highway 15, and 15' south of the existing Everett Pipe Line No. 2. It will consist of three pile bents with fender piles and capped to support 48" steel water supply pipe to be installed under another contract. QUANTITIES: 80,000' piling; 324 MBM timber.
HH 9-18. Previous report 9-17

★SEWER SYSTEM— Harrah, Wash.

Awards announced by Town Council, Town Hall, Harrah, for construction of sanitary sewer, sewage lift station and treatment plant. AWARDS—DeBlasio Bros., Route 4, Yakima, $37,014 (sewers); Joe E. Venne, Sunnyside, $22,237 (treatment plant, lift stations). Plans by Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima.
DC 9-18. Previous report 9-7

■ASPHALTIC CONCRETE PAVING, STORM SEWER— Kent, Wash.

Planholders announced for asphaltic concrete paving, sidewalks, curbs, and storm sewer in LID No. 237. Bids will be opened 3 p.m., September 26, by City Council, City Hall, Kent. Specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.

Planholders: Rainier Asphalt Paving Co., Maple Valley Highway, Renton; Superior Construction Co., 4610 37th S.W., Seattle; Eltrich Bros. Construction, 1002 S. Monroe, Tacoma; Russ Davis Concrete Construction, 3314 Mount Tacoma Drive, Tacoma; Lake City Gravel & Materials, Inc., 10728 Bothell Way, Seattle; Industrial Sewer Construction Co., 4314 Dayton, Seattle.
PD 9-18. Previous report 9-12

★STEEL PIPE, WATERMAINS— Kettle Falls, Wash.

Award to Armco Drainage and Metal Products Co., Inc., 1320 S.W. Broadway, Portland, Ore., $45,855, for furnishing 16,600' of 10" steel pipe, and to Charles M. Boyd and Charles Coogan, Kettle Falls, $14,452, for ditching and pipe laying. Bids were opened August 20 by Town Council, Town Hall, Kettle Falls.
DC 9-18. Previous report 8-17

SEWAGE DISPOSAL PLANT— Lake Stevens, Wash.

Lake Stevens sewage district has been voted in as a reality and also a special one-year tax levy to finance its organization. Main objective of the formation is to take steps toward construction of a sewage disposal plant to eliminate pollution of the lake.
HH 9-7

★CONTROL HOUSE— Moses Lake, Wash.

Award to Sceva Construction Co., Inc., No. 2928 Madelia St., Spokane, $60,985, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the control house at the potholes substation, 6 mi. west of Moses Lake, Grant County, Wash.; Inv. No. 8516.
WB 9-18. Previous report 9-12

DOLPHINS— Nahcotta, Wash.

Bid opening of September 13 cancelled and bids will be readvertised by 13th Coast Guard District, 618 2nd Ave., Seattle, for construction of two 5-pile dolphins with platforms at Nahcotta Mooring Basin, Nahcotta; Bid No. FS-1649.
SP 9-14. Previous report 8-28

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids will be opened 10 a. m., October 1, by Washington State Highway Commission, W. A. Bugge, director, Olympia, for eleven highway construction projects. Specifications with above office. $2 deposit. Certified check or cashier's check 5%.

GRADING, CONCRETE BRIDGE—BELLINGHAM: Clearing, draining, grading and constructing a reinforced concrete slab bridge on 2.114 mi. of PSH No. 1, Fielding St. to North St., Whatcom County; FAP No. 1-001-5(23).

Quantities: 55 acre clearing; 214,400 c.y.

common excavation; 220,400 c.y. solid rock excavation; 74,000 unit overhaul; 8,650 c.y. excavation of unsuitable material; 34,000 ton select roadway borrow; 2,600 c.y. sand borrow; 3,100 ton crushed stone surfacing; 38 ton asphalt cement; 100' integral cement concrete curb; 290 c.y. crushed cover stone, mineral aggregate; 4,150 ton asphaltic concrete; 9,950' cement concrete curb and gutter; 1,960' precast traffic curb; 110' galvanized conduit pipe; 2,459' corrugated metal pipe; 12,245' concrete pipe; 290' copper pipe; 1,922' cast iron pipe; 45,212' reinforced concrete cribbing headers and stretchers; 150' beam guard rail; 3,005 sq. yd. cement concrete sidewalk and driveway; lump sum bid for superstructure (about 530 c.y. concrete and 99,000 lb. steel reinforcing bars); 983 c.y. concrete; 122,840 lb. steel reinforcing bars.

DRAINING, GRADING — PONDERS TO N.P. RAILWAY: Clearing, draining, grading on 1.521 mi. PSH No. 1, Pierce County; FAP No. 1-001-3(19) Unit 2.

Quantities: 95 acre clearing; 417,000 c.y. excavation and borrow; 185,500 unit overhaul; 14,700 ton crushed stone surfacing, special gravel surfacing; 4,400 c.y. top soil; 41 ton asphalt cement; 380 c.y. crushed cover stone, mineral aggregate; 2,930 ton asphaltic concrete; 202' asphaltic concrete spillway and gutter; 194 c.y. concrete; 43,840 lb. steel reinforcing bars; 477 c.y. riprap.

DRAINING, SURFACING, PAVING — VANCOUVER LAKE VICINITY: Clearing, draining, grading, surfacing, constructing cement treated base and paving with type I-1 asphaltic concrete on 1.613 mi. SSH No. 1-T, Clark County; FAS No. S-0261(2).

Quantities: 176,300 c.y. common excavation; 9,230 unit overhaul; 2,800 c.y. excavation of unsuitable material; 29,600 ton ballast, crushed stone surfacing; 4,530 ton asphaltic concrete; 440 c.y. mineral aggregate; 44 ton asphalt cement; 7,500 ton CTB aggregate; 1,600 bbl. portland cement; 3,100' asphaltic shoulder curb; 2,010' concrete pipe; 566' corrugated metal pipe.

REINFORCED CONCRETE BRIDGES — C.M. ST. P. & P. R.R. AND SQUALICUM CREEK: Constructing two reinforced concrete flat slab bridges on 0.065 mi. PSH No. 1, Whatcom County; FAP No. 1-001-5(21).

Quantities: 3,100 c.y. concrete; 521,000 lb. steel reinforcing bars; 1,135' standard bridge railing.

SOUTH 96TH ST. OVERCROSSING AND SOUTH 84TH ST. UNDERCROSSING—Constructing a reinforced concrete box girder bridge and a reinforced concrete rigid frame bridge on 0.016 mi. of PSH No. 1, Pierce County; FAP No. 1-001-3(30).

Quantities: 66,500 c.y. common excavation and borrow; 2,260 ton select roadway borrow; 1,125 ton crushed stone surfacing; 760 ton asphaltic concrete; 66' concrete pipe; lump sum bid for superstructures (about 1,538 c.y. concrete and 387,000 lb. steel reinforcing bars); 1,300 c.y. concrete.

13TH ST. AND NATIONAL AVE. CONCRETE UNDERCROSSINGS — Constructing two precast, prestressed concrete undercrossings on PSH No. 1, Lewis County; FAP No. 1-001-2(54).

Quantities: 1,920 c.y. excavation and borrow; 860 ton crushed stone surfacing and ballast; 869 c.y. concrete; 2,100' prestressed concrete girders; 151,000 lb. steel reinforcing bars; 18,000 lb. structural steel. 10,100' concrete piling.

DRAINING, CRUSHED STONE SURFACING — ENTIAT RIVER ROAD: Clearing, draining, grading and surfacing with crushed stone on 2.719 mi. of a Chelan County Road; FAS No. S-0440(3).

Quantities: 94,200 c.y. common excavation; 19,070 c.y. solid rock excavation; 33,895 ton ballast and crushed stone surfacing; 22 c.y. concrete; 608' structural steel; 1,602' concrete pipe; 720' corrugated metal pipe; 2,460' steel and iron pipe.

DRAINING, GRADING—UPPER ELWHA RIVER ROAD: Clearing, draining and grading on 0.932 mi. Clallam County Road; FAS No. S-1427(1).

Quantities: 2,430 c.y. common excavation; 26,480 c.y. solid rock excavation; 1,000 c.y. loose riprap; 240' concrete pipe.

PAVING, CRIBBING—NORRIS ST. EXTENSION NEAR BURLINGTON: Draining, grading, surfacing, paving with bituminous mix and constructing reinforced concrete cribbing on 0.127 mi. PSH No. 1, Skagit County; a State Project.

Quantities: 2,350 c.y. common excavation and borrow; 660 c.y. select roadway borrow and crushed stone surfacing; 270 ton bituminous mix; 9 c.y. concrete; 156' concrete pipe; 116' corrugated metal pipe; 7,918' reinforced concrete cribbing headers and stretchers.

SURFACING, MOUNT SPOKANE STATE PARK ROAD: Surfacing with crushed stone and constructing a light bituminous surface treatment on 1.030 mi. of a State Park Road in Spokane County; a State Project.

Quantities: 2,770 c.y. selected roadway borrow; 1,075 c.y. crushed stone surfacing, crushed cover stone; 17 ton asphalt cement; 184' corrugated metal pipe.

DRAINING, GRADING, SURFACING — BLOCK 46, 47 FEEDER ROADS, ET AL: Clearing, draining, grading and surfacing with crushed stone on 27.838 mi. Adams County roads; a State Project.

Qauntities: 27.8 mi. grading; 59,410 ton crushed stone surfacing; 2,828' corrugated metal pipe. SP 9-13

★STATE HIGHWAY PROJECTS— **Olympia, Wash.**

Twelve awards and three projects held for consideration by Washington State Highway Commission, W. A. Bugge, director, Olympia, for highway construction on which bids opened September 10.

DRAINING, GRADING—DAVENPORT TO GRAVELLE ROAD: Clearing, draining and grading on 5.641 mi. PSH No. 2 in Lincoln County; FAP No. F-028-4(2). AWARD: N. A. Dagerstrom Co., E. 15th and 32nd, Spokane, $273,464.

STOCKPILING, SURFACING — MONSE TO OKANOGAN: Stockpiling and surfacing with light bituminous surface treatment on 17.788 mi. PSH No. 10 in Okanogan County; FAP No. F-029-2(4). AWARD: Materne Bros., Box 7052, Spokane, $187,221.

REINFORCED CONCRETE UNDERCROSSING—UNION AVENUE: Construction of a reinforced concrete box girder undercrossing on PSH No. 1 in Pierce County; FAP No. 1-001-3(28) Unit 1. Held for consideration. LOW BID: Woodworth & Co., 1200 E. D St., Tacoma, $183,915.

PRECAST CONCRETE UNDERCROSSING — STAMPEDE ROAD, CABIN CREEK ROAD: Constructing two precast prestressed concrete undercrossings on PSH No. 2 in Kittitos County; FAP No. 1-002-2(11). AWARD: Russell Gillett Co., Box G, Cle Elum, $183,815.

REINFORCED CONCRETE BRIDGE—KENTUCKY STREET, C.M.ST.P. & P.R.R. OVERCROSSING: Constructing a reinforced concrete slab bridge on 0.025 mi. PSH No. 1 in Whatcom County; FAP No. 1-001-5(19). AWARD: C. B. Croy, 2502 Lakeway Drive, Bellingham, $121,307.

PRECAST CONCRETE UNDERCROSSING —MORRISON ROAD, MAY VALLEY. Constructing two precast prestressed undercrossings on PSH No. 18 in Grant County; FAP No. 1-002-4(8). Held for consideration. LOW BID: Cherf Bros. & Sandkay Contractors, Inc., Ephrata, $166,566.

STEEL GIRDER BRIDGE, CONCRETE APPROACHES—NORTH FORK OF SKAGIT RIVER: Constructing a steel girder bridge and reinforced concrete approaches on 0.137 mi. of Skagit County Road; FAS No. S-0315 (1) Unit 1. AWARD: Louis Elterich, Box 868, Port Angeles, and DelGuzzi, Inc., 1020 E. Front St., Port Angeles, joint venture, $470,536.

DRAINING, GRADING, PAVING—148TH AVE. S.E., J. C. O'CONNOR ROAD, 140TH AVE. N.E.: Clearing, draining, grading and paving with type I-1 asphaltic concrete on 3.316 mi. King County Road; FAS No. S-0860 (1). AWARD: Acme Construction Co., Box 641, Redmond, $142,064.

GRADING, SURFACING—NORTH FORK BRIDGE APPROACHES: Grading and surfacing on 1.367 mi. Skagit County Road; FAS No. S-0315(1) Unit 2. AWARD: Herman Kathman, Box 555, Kenmore, $125,936.

FOSTER CREEK, PALISADES CONCRETE BRIDGES: Constructing four reinforced concrete slab bridges, grading and surfacing approaches on 0.296 mi. Douglas County Roads; FAS Nos. ER-23(6) and S-1022(2). AWARD: Russell Gillette, Cle Elum, $94,171.

GRADING, SURFACING—FERTILE VALLEY ROAD: Draining, grading, surfacing with selected roadway borrow on 1.115 mi. Pend Oreille County Road; FAS No. S-1339 (1). AWARD: N. A. Dagerstrom Co., Spokane, $31,305.

STORM SEWER — CITY OF COLVILLE: Construction of a storm sewer on 0.375 mi. PSH No. 3 in Stevens County; a State Project. AWARD: Morrison & Co., Box 597, Walla Walla, $34,841.

ASPHALTIC CONCRETE PAVING — TOWN OF MONROE: Paving with type I-1 asphaltic concrete on 0.563 mi. SSH No. 15-B in Snohomish County; a State Project. AWARD: Associated Sand & Gravel Co., 6300 Glenwood Ave., Everett, $44,705.

ASPHALTIC CONCRETE PAVING — KEECHELUS INN TO KACHESS RIVER: Paving with type I-1 asphaltic concrete on 2.581 mi. PSH No. 2 in Kittitas County; a State Project, involving about 2,515 ton asphaltic concrete pavement. AWARD: Washington Asphalt Co., Seattle, $23,925.

DISTRICT OFFICE BUILDING ADDITION —WENATCHEE: Constructing a reinforced concrete addition to the district headquarters office building in Chelan County; a State Project. Held for consideration. LOW BID: Lowry Construction Co., Box 1013, Wenatchee, $141,797.

DE 9-13. Previous report 9-11

●HOOD CANAL BRIDGE, FERRY CONSTRUCTION— Olympia, Wash.
(Estimated cost $18,063,000)

Bids will be opened 10 a. m., October 15, by Washington State Highway Commission, Transportation Bldg., Olympia, for 1—constructing unit 1, the floating section of the Hood Canal reinforced concrete floating bridge, 1.341 mi. in length in Kitsap and Jefferson counties (estimated $11,063,000), 2—widening four existing steel state ferries for the State Toll Bridge Authority (estimated $1,800,000), 3—constructing two Evergreen State type ferries 310' long for the Toll Bridge Authority (estimated $5,200,000). Specifications with above office. $50 deposit. Certified check, cashier's check or surety bond 5%.

The above work is the first phase of a $30,500,000 construction program to bridge Hood Canal and improve the state ferry system. The next phase will be on September 24 when the state calls for bids on improving ferry terminals at Fauntleroy, Vashon and Point Southworth-Harper at an estimated cost of $1,100,000.

HOOD CANAL BRIDGE UNIT 1—FLOATING STRUCTURE: Constructing a reinforced concrete floating bridge 1.341 mi. in length in Kitsap and Jefferson counties; a State Project.

Quantities: 74,597 c.y. concrete; 12,586,000 lb. steel reinforcing bars; 3,000,280' prestressing reinforcement; 14,060 reinforced concrete bridge railing; 2,943,120 lb. structural steel; 20,150 sq. ft. steel bridge decking; 739,200 lb. cast steel; 271,610 lb. high strength bolts and cast steel washers; 2,600' rubber seals; 5,844' steel pipe; 1,670' cement-asbestos pipe; 3,316' aluminum bridge railing 1,136' aluminum curb; 321 MBM treated timber and lumber; 227,600 lb. machinery; lump sum bid for mechanical equipment; lump sum bid for electrical equipment; lump sum bid for operator, machinery and generator houses; 29,000 sq. yd. waterproofing pontoons; 2,450' steel piling.

WIDENING FOUR STEEL ELECTRIC FERRIES: Widening the existing state ferries M/V Illahee, M/V Klickitat, M/V Nisqually and M/V Quinault for the Washington Toll Bridge Authority; a State Project.

Work consists principally in sponsoning the hull, widening the auto deck and replacing the existing wood auto deck with a steel deck. Alternate bids requested on replacing existing lifeboats and davits with larger boats and mechanical davits, on raising the entire superstructure for increased vertical clearance on the auto deck and on replacing existing canvas deck covering on exterior passenger decks.

TWO EVERGREEN STATE TYPE VESSELS: Constructing two ferries 310' long for the Washington Toll Bridge Authority; a State Project, consisting of building two ferry vessels of the Evergreen State Class utilizing owner furnished propulsion, generator sets, propulsion motor and engine room auxiliaries. SP 9-13

■STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced on ten highway

construction projects for which bids will be opened 10 a. m., September 24, by Washington State Highway Commission, Transportation Bldg., Olympia.

GRADING — LOON LAKE - GROUSE CREEK—Clearing, draining, grading 6.588 mi. PSH No. 3, Stevens County; FAP No. F-041-2(1).

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; N. A. Degerstrom, E. 15 32nd, Spokane; Fiorito Bros., 1100 Leary Way, Seattle; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Peter Kiewit Sons' Co., Box 1777, Vancouver; Lockyear & White, Inc., Box 687, Longview; Henry H. Miller, Contractors, Inc., 2191 N.E. Stephens, Roseburg, Ore.; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Charles A. Power, Box 1220, Spokane; Fred H. Slate Co. Oregon Ltd., 7805 S.W. 40th, Portland; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; James Crick & Sons, Box 4228, Station B, Spokane; Lige Dickson Co., 3315 S. Pine, Tacoma; Donald M. Drake Co., 1600 N.W. Savier, Portland; Erickson Paving Co., 14446 Sunset Highway, Bellevue; K. L. Goulter & Son, 3419 16th W., Seattle; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; Kiely Construction Co., Drawer 246, Butte, Mont.; Max J. Kuney Co., N. 120 Ralph, Spokane; C. E. Oneal, Inc., Box 270, Ellensburg; Natt McDougall Co., 824 Pittock Block, Portland; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Union Iron Works, Box 2135, Spokane; Sather & Sons, N. 1410 Howe, Yardley; Carl Hohner, 730 W. Chelan, Spokane; Clifton & Applegate, E. 5521 Railroad Ave., Yardley.

SSH No. 5-G UNDERCROSSING—Reinforced concrete slab bridge on PSH No. 1, Pierce County; FAP No. I-001-3(29) Unit 1.

Planholders: John E. Alexander, Box 7006, Seattle; Bergersen & Roberts, 2015 Center, Tacoma; Concrete Technology Corp., 1123 Port of Tacoma Road, Tacoma; Lockyear & White, Inc., Longview; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Poole, McGonigle & Dick, 6330 N.E. Halsey, Portland; Sawyer Construction Co., Route 3, Box 298, Tacoma; Woodworth & Co., Inc., 1200 E. D St., Tacoma; Troy T. Burnham Co., 18666 Beverly Road, Seattle; W. G. Clark Construction Co., 408 Aurora Ave., Seattle; N. Fiorito, Inc., 844 W. 48th, Seattle; L. B. Foster Co., Box 53B, Carnegie, Pa.; Harry H. Hawkins, 16274 39th N.E., Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; MacRae Bros., 5900 2nd S., Seattle; Ostruske-Murphy, Inc., 1515 Center, Tacoma; Quality Builders, 5220 S. Orchard, Tacoma; Tacoma Boatbuilding Co., Inc., 132 Sitcum Waterway, Tacoma; Excavators, Inc., 5756 29th N.W., Seattle.

CEMENT CONCRETE PAVING — MILITARY ROAD—Clearing, draining, grading cement concrete paving 3.282 mi. King County road; FAS Nos. S-0387(1), S-0381(4).

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Fiorito Bros., 1100 Leary Way, Seattle; Peter Kiewit Sons' Co., Box 177, Vancouver; Northwest Construction Co., 3950 6th N.W., Seattle; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Erickson Paving Co., 1446 Sunset Highway, Bellevue; N. Fiorito, Inc., 844 W. 48th, Seattle; Permanente Cement Co., 5975 E. Marginal Way, Seattle; Charles R. Watts Co., 4342 6th N.W., Seattle.

SURFACING—WALLA WALLA COUNTY—Surfacing with select roadway borrow and crushed stone on 3.547 mi., Oregon-Washington state line, Valley Chapel and Mojonnier Road sections; FAS No. S-0638(2).

Planholders: Carbon Bros., N. 3430 Cook, Spokane; Inland Excavating Co., Box 16, Walla Walla; Morrison & Co., Inc., Box 597, Walla Walla; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane; L. W. Vail Co., Inc., 1948 N. 4th, Pasco; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; D. A. Sullivan, Box 37, Parkwater Station, Spokane; Basin Paving Co., Box 1574, Moses Lake; Carl Hohner, 730 W. Chelan, Spokane; Earl LeRoy Kelly, 119 Leonard, Walla Walla; Materne Bros. Co., Box 7052, Spokane; Sather & Sons, N. 1410 Howe, Yardley.

PAVING—TOWN OF SEDRO WOOLLEY—Grading, asphaltic concrete paving 0.396 mi. SSH No. 1-A, Skagit County; a State Project.

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Wilder Construction Co., Inc., 1840 State, Bellingham; Fowler Asphalt Paving Co., 711 2nd, Mount Vernon; Skagit Valley Paving Co., Box 268, Mount Vernon.

PAVING — RENTON — Draining, grading, asphaltic concrete paving 0.104 mi. PSH No. 5, C.M. St. P. and P. R.R. undercrossing vicinity, King County; a State Project.

Planholders: Concrete Technology Corp., 1123 Port of Tacoma Road, Tacoma; Rainier Asphalt Paving Co., Box 44, Renton; MacRae Bros., 5900 2nd S., Seattle.

DUNGENESS RIVER REVETMENT—Construct bank project on PSH No. 9, Jefferson County; a State Project.

Planholders J. M. Bruch Co., Route 3, Box 504, Port Angeles; Bruck Bros., Route 1, Box 66, Port Angeles; Critchfield Logging Co., Inc., Route 1, Box 412, Port Angeles; Lake Construction Co., 1801 35th, Bellingham; Morrison-Cecotti, Box 388, Mount Vernon; C. W. Thomas & Son, Box 402, Winlock; P. J. Anderson & Sons, 13501 Aurora, Seattle; Excavators, Inc., 5756 29th N.E., Seattle; Kent & Tucker, Inc., 1431 134th N.E., Bellevue; Consolidated Construction Co., Route 12, Route 285A, Olympia; C. J. Painter, R.R. 1, Moses Lake; Owens Bros., Railroad and Oak, Port Angeles.

STOCKPILING — EASTON VICINITY — Stockpiling crushed stone surfacing, maintenance rock, sand and mineral aggregates involving about 10,000 c.y. stripping surfacing pit, 124,600 ton crushed materials on PSH No. 2, Kittitas County; a State Project.

Planholders: Carbon Bros., N. 3430 Cook, Spokane; J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; Curtis Construction Co., Box 106, Spokane; J. F. Forbes, Box 174, Olympia; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Newport Construction Co., 7031 N.E. Halsey, Portland; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; R. Wamberg, 7404 S. Tacoma Way, Tacoma; Acme Construction Co., Box 651, Redmond; J. Arlie Bryant, Inc., and Clarence Braden, 3716 Skyview Drive, Spokane; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Lige Dickson Co., 3315 S. Pine, Tacoma; N. Fiorito, Inc., 844 W. 48th, Seattle; Max J. Kuney Co., N. 120 Ralph, Spokane; Pieler Construction Co., 201 E. 8th, Port Angeles; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; D. A. Sullivan, Box 37, Parkwater Station, Spokane; R. H. Sussex, 2850 State Highway 2A, Bellevue; Frank G. Baulne, Inc., Box 84, Yardley; Ellensburg Cement Products, Inc., W. 7th, Ellensburg; Maurice Gredvig, Box 301, Yakima; Materne Bros., Box 7052, Spokane; Sather & Sons, N. 1410 Howe, Yardley; Russell-Gillett Co., Box G, Cle Elum; C. J. Painter, R.R. 1, Moses Lake.

RECONSTRUCT COWLITZ RIVER BRIDGE—Reconstruct timber bridge deck, 0.427 mi., Bridge No. 12-LB/3, PSH No. 12, Cowlitz County; a State Project.

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; Hanly Salvage Co., 3912 Pacific Way, Longview; The Hart Construction Co., 3536 E. 11th, Tacoma; General Construction Co., 3840 Iowa, Seattle; Lake Construction Co., 1801 35th, Bellingham; Palmberg Construction Co., Box 991, Astoria, Ore.; Archie Radakovich, Box 308, Kelso; Wayne Construction Co., 3810 Stone Way, Seattle; Owens Bros., Railroad and Oak, Port Angeles.

BUILDING — Construct administration building and toll canopy on Maple Street Bridge, Spokane County; a State Project.

Planholders: John, Busboom, Rauh, 601 N. Cedar, Spokane; Max J. Kuney Co., N. 120 Ralph, Spokane; Kehne Electric Co., Inc., N. 146 Helena, Spokane.

DM 9-17. Previous report 9-6

ROAD IMPROVEMENT— Pasco, Wash.
(Estimated cost $200,000)

Bids will be called soon by Franklin County Commissioners, Pasco, for improvement of the Sagehill Road which connects State Highway 11-A with a road that runs to the Othello radar station. Specifications by County Engineer Harold Blanton, above address. The road, approximately 11 mi. long, will be the main arterial for Blocks 20 and 21 in the northwest part of the county.

★WATERMAINS— Pullman, Wash.

Award to W. A. McConnachie, 2 Roza Vista, Yakima, $14,258, by City Council, City Hall, Pullman, for furnishing and installing 5,494' of cast iron water pipe on various city streets. SP 9-12. Previous report 8-23

■ SANITARY, STORM SEWERS, TREATMENT FACILITY— Redmond, Wash.

Planholders announced for construction of a stabilization pond (Sched. A-1), a sewage pump station (Sched. B-1), sanitary sewers (Sched. C) and storm sewers (Sched. D) at Redmond. Bids will be opened 8 p. m., September 25, by Florine Shults, town clerk, Town Hall, Redmond. Plans with Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.

Planholders: Lario Libri, 5960 Empire Way; F. M. Taylor, 2108 N. 194th; Associated Sand & Gravel, 6300 Glenwood Ave., Everett; Frank Coluccio, 7778 Seward Park Ave.; Harold Kaeser Co., 3629 34th Ave. S.; John Patricelli, 1534 32nd Ave. S.; Hanson Construction Co., 12701 Palatine Ave.; Murphy Bros., E. 3728 Broadway, Spokane; W. L. Ridge Construction Co., E. 3122 Sharp, Spokane; Matheson & Villella, 3612 Norton, Everett; Joe Lundberg Construction Co., 3420 13th S.W.; Thorburn & Logozo, 4608 36th Ave. S.W.; H. D. Fowler Co., 901 Lane St.; Pacific Water Works Supply, 2900 1st Ave. S.; Matt Malaspina & Co., 1901 23rd Ave. S.; Einer Jacobson, Route 4, Box 466, Puyallup; Rainier Mechanical Contractors, Box 2128, Tacoma; Walters Construction Co., Box 194, Cosmopolis; Superior Construction Co., 4610 37th S.W. Of Seattle except as noted.

PD 9-17. Previous report 9-7

BEN FRANKLIN HYDROELECTRIC PROJECT— Richland, Wash.
(Estimated cost $600,000)

A preliminary permit has been requested of the Federal Power Commission by Washington Public Power Supply System, Owen Hurd, managing director, c/o Benton County PUD No. 1, 524 S. Auburn, Kennewick, for the proposed Ben Franklin hydroelectric project on the Columbia River in Franklin and Benton counties. The project would be designed to have 480,000 kilowatts installed generating capacity initially and an ultimate total of 600,000. The system proposes to build a dam about 8 mi. north of Richland to create a reservoir extending upstream about 50 mi. to the tailrace of Priest Rapids Dam. The WPPSS is comprised of 17 PUD's within the state of Washington but is an independent municipal corporation. SC 9-17

★FLOODLIGHTING SYSTEM— Richland, Wash.

Award to Kehne Electric Co., 416 Helena, Spokane, $31,540, by Richland School District No. 400, Richland, for installation of a bomber bowl floodlighting system for Columbia High School in Richland. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima. SP 9-13. Previous report 8-20

★SCREEN STRUCTURES— Seattle, Wash.

Award to Roller Construction Co., Route 3, Box 489, Shelton, $18,100 ($6,752 Sched. 1, $5,562 Sched. 2, $5,790; Sched. 3), by State Director of Game, John A. Biggs, 509 Fairview Ave. N., Seattle, for construction of three revolving screen structures at McMurray Lake (Sched. 1), at Wildcat Lake (Sched. 2) and at Hayden Lake (Sched. 3). SP 9-17. Previous report 9-13

▲ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Bids received by King County Commissioners, 402 County-City Bldg., Seattle, for type I-1 asphaltic concrete paving on 10 mi. of Richmond Beach Road (Aurora Ave. to 8th Ave. N.W.), King County. Bids opened September 16. LOW BID: Washington Asphalt Co., 309 W. 39th, Seattle, $18,950. ONLY OTHER BIDS: Lake City Gravel & Materials, Inc., 10728 Bothell Way, Seattle, $20,890; Associated Sand & Gravel, Box 914, Everett, $22,410.

PD 9-17. Previous report 9-11

■ SURFACING— Seattle, Wash.

Planholders announced for clearing, grading, draining and crushed stone surfacing 1.36 mi. of 236th Ave. N.E. (Premier Road), S.H. No. 2 to Union Hill Road and 1.0 mi. of 156th Ave. J N.E. (Cook Road) P.S.H. No. 2 to N.E. 124th St., King County. Bids will be opened 9:30 a. m., September 23, by King County Commissioners, 402 County-City Bldg., Seattle. Planholders identical for Premier Road and Cook Road.

Planholders: All City Excavating, 8114 9th Ave. S.W.; Northwest Construction Co., 3950 6th Ave. N.W.; Bass Construction, 12526 Aurora; John Patricelli, 1534 32nd Ave. S.; Anderson & Johnson, 11037 Roosevelt Way; Thomas Scalzo, 3211 Airport Way; J. J. Welcome Construction Co., Box 64, Redmond; W. J. Halleran, 13000 Empire Way; Robert L. Marsh, 4071 W. Holgate; I. M. Salmons, Route 1, Box 788, Alderwood Manor. Of Seattle except as noted.
PD 9-17. Previous report 9-6

★**GROUND IMPROVEMENT—Seattle, Wash.**

Award to Baugh Construction Co., 922 Poplar Place, Seattle, $28,970, by Seattle School District No. 1, 815 4th Ave. N., Seattle, for playfield development at Chief Sealth High School, 2500 W. Thistle St., Seattle.
PD 9-17. Previous report 9-11

★**BITUMINOUS SURFACING— Seattle, Wash.**

Award to Bass Construction Co., 12526 Aurora, Seattle, $48,853, by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading and surfacing with light bituminous treatment 0.78 mi. of E. 197th St. and 0.72 mi. of 47th Ave. N.E., King County. PD 9-13. Previous report 8-20

★**CLEARING, GRADING, BITUMINOUS SURFACING— Seattle, Wash.**

Award to Thomas Scalzo, 3211 Airport Way, Seattle, $31,981, by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading, surfacing with light bituminous surface treatment one mi. on N.E. 8th St. (268th Ave. N.E. to 244th Ave. N.E.), King County.
PD 9-13. Previous report 8-13

★**CYCLONE FENCE— Seattle, Wash.**

Award to Eldorado Fence Co., 1442 Trestle Glen, Oakland, Calif., $10,631, by Board of Public Works, 512 County-City Bldg., Seattle, for furnishing and installing 3,050' of 8" high galvanized wire cyclone fence at Bitter Lake Reservoir; Ord. No. 85070.
PD 9-13. Previous report 9-5

★**CEMENT CONCRETE PAVING— Seattle, Wash.**

Award to only bidder Pacific Construction Co., 3002 16th Ave. S., Seattle, $41,706, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for furnishing and installing 4,700 sq. yd. of 6" cement concrete, 2,500' curb, miscellaneous items on 33rd Ave. S.W., et al, LID 6164.
PD 9-13. Previous report 9-5

★**SURFACING— Seattle, Wash.**

Award to All City Excavating, 8114 9th Ave. S.W., Seattle, $28,152, by King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading and crushed stone surfacing 1.06 mi. of Creosote Road (SSH 2-A to 116th Ave. S.E.).
PD 9-18. Previous report 9-10

●**PLAYGROUND IMPROVEMENTS— Seattle, Wash.**

Bids will be opened 10 a.m., October 1, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing all labor and materials to complete improvements at B. F. Day playground. Specifications with above office.
PD 9-18

●**PAVING, STORM DRAINS—Selah, Wash.**

Bids to be opened 8 p.m., September 30, by Town Council, Town Hall, Selah, for construction of asphaltic concrete pavement and necessary surface inlets and storm drains. Plans with Mabel S. Darby, town clerk, above address, and Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. $25 deposit.
IG 9-18

●**STEEL BRIDGE—Skamania County, Wash.**

Bids to be opened 10 a.m., October 4, by Bureau of Public Roads, B. M. French, regional engineer, 757 Morgan Bldg., Portland, Ore., for constructing 598' steel deck truss bridge, Washington Forest Highway Project 30-C, Wind River Highway, Gifford Pinchot National Forest, Skamania County, Wash. Plans with above office.

Quantities: 1,026 c.y. concrete; 800 c.y. structure excavation; 94,000 lb. reinforcement steel; all reqd. structural steel; 1,181' steel bridge rail.
DM 9-17

★**TOWER STEEL— Snohomish, Vancouver, Wash.**

Award by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering tower steel fob Snohomish and Eavan Spur, Vancouver, Wash.; Inv. No. 8508. AWARD: Bethlehem Pacific Coast Steel Corp., San Francisco, $81,758 (fob. Seattle). OTHER BIDS(All fob destinations): Creamer & Dunlap, Inc., Tulsa, Okla., $86,705; Pacific Fabricators, Inc., Portland, $88,132; Anchor Metal, Inc., Hurst, Tex., $95,430. Bids received August 21.
WB 9-5. Previous report 8-6

★**STATE HIGHWAY PROJECT— Yakima, Wash.**

Award to C. H. Savage Co., 4126 S.E. Milwaukie Ave., Portland, $10,456, by Washington State Highway Commission, Olympia, for cleaning and painting seven bridges on State Highway Nos. 3, 5, 3E and 11A, involving Bristol Fill Bridge, et al, Kittitas, Yakima and Walla Walla counties; a State Project. Bids opened August 15 by R. H. Pile, district engineer for the highway department, Yakima.
DE 9-11. Previous report 8-22

IDAHO

POWER REACTOR— Arco, Idaho
(Estimated cost $40,000,000)

Congress has approved $3,000,000 for development, design and engineering on the natural uranium gas-cooled power reactor to be built at the AEC installation at Arco, for Atomic Energy Commission, Box 1221, Idaho Falls.
GH 9-10

▲**IRRIGATION PIPE— Boise, Idaho**

Bids are being held under study by Boise Independent School District, 1207 Fort St., Boise, for furnishing 24" concrete irrigation tile or corrugated metal pipe for the Hawthorne School. Bids opened August 19. ONLY BIDS: Beall Pipe & Tank Corp., 225 Broadway, Boise, $1,113; Armco Drainage & Metal Products, 227 S. 3rd St., Boise, $1,170 (alt. $1,120 and $1,113).
SP 9-7. Previous report 8-9

★**SEPTIC TANK, DRAIN FIELD— Boise, Idaho**

Award to Crane Excavating Co., Box 6, Eagle, $1,347, by Boise Independent School District, 1207 Fort St., Boise, for installation of a septic tank and drain field at Franklin School.
SP 9-13. Previous report 8-1

●**GUARD RAIL— Boise, Idaho**

Bids will be opened 11 a.m., September 23, by Ted Cramer, state purchasing agent, 225 State House, Boise, for guard rail for the highway department at Pocatello. Specifications with Boise office.
DC 9-18

★**STATE HIGHWAY PROJECTS— Boise, Idaho**

Three awards have been made by the Department of Highways, 603 Main St., Boise, on highway construction projects on which bids were opened September 10.

SURFACING, HOSPITAL AREA — Grading, bituminous surfacing streets and parking areas at State Hospital South, Bingham County.

AWARD: Pickett & Nelson, 150 4th St., Idaho Falls, $10,417.

BRIDGES, ROADMIX SURFACING-FAIRFIELD EAST AND JCT. 68-C — Construct roadway, five concrete bridges, roadmix bituminous surfacing on 5.126 mi. of State Highway 68, Fairfield E. and 5.153 mi. State Highway 46, Jct. 68 S., furnishing crushed gravel, cover coat material in stockpiles; FAP Nos. S-2809 (4), S-2779(3), Stockpile No. 183, Camas County.

AWARD: Marion J. Hess, Malad, $423,138.

SEAL COATING—REGINA-BEACON INN: Constructing unstable areas and seal coating 4.250 mi. U.S. Highway Nos. 20, 26 and 30, Ada and Elmore counties; State Proj. No. ST-3022(522).

AWARD: Morrison - Knudsen Co., Inc., Boise, $37,472. DM 9-18. Previous report 9-12

■**SEWER SYSTEM ADDITIONS— Bonners Ferry, Idaho**

Planholders announced on construction of additions to the sanitary sewer system at Bonners Ferry on which bids will be opened 8 p.m., September 27, by Harold Buroker, village clerk, in the Village Hall, Bonners Ferry. Specifications with above office and with Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. Project involves sewage lift station, 6,200' of 8" sewer pipe and 160' of 8" steel pipe.

Planholders: Ruud Construction Co., 602 Realty Bldg., Spokane, Wash.; Hilton Lawrence Co., E. 41 Gray Ave., Spokane; Lee Hann, N. 7716 Smith, Spokane; Kraeger Construction Co., 4103 N. Driscoll Blvd., Spokane; Lester N. Johnson Co., 1318 N. Fancher, Spokane; Murphy Bros., Box 2193, Spokane; M. F. Castle, N. 10503 Division, Spokane; Arnold & Jeffers, Box 2192, Spokane; H. D. Fowler Co., Box 3084, Seattle, Wash.; John Knowles, 1040 Monroe, Wenatchee, Wash.; Pacific Pumping Co., 526 N.W. Broadway, Portland, Ore.; Armco Drainage and Metal Products, Inc., Box 751, Portland, Ore.; H. E. Schimmels Co., Box 262, Dishman; Pacific Water Works Supply Co., 2900 1st S., Seattle; Intermountain Co., Box 1869, Boise.
IG 9-17. Previous report 9-10

★**ELECTRICAL EQUIPMENT, ROADS, IRRIGATION— Iona, Idaho**

Award to Aiman Construction Co., Box 913, Idaho Falls, $12,637, by Bonneville Class A School District No. 93, Iona, for installation of electrical equipment and construction of roads, sidewalks, curbs, planting areas, irrigation system for the new Central High School at Iona. Plans by C. A. Sundberg & Associates, architects, 11 E. 16th, Idaho Falls. Bids opened August 19.
SP 9-17. Previous report 8-14

●**SEWAGE DISPOSAL LINES— Lewiston, Idaho**

Bids to be opened 7:30 p.m., October 14, by City Council, City Hall, Lewiston, for construction of sewage disposal lines in city. Plans with Elmer Sonniville, city engineer, City Hall. $5 deposit. Guarantee 5%.

Quantities: 9,700' excavation and backfill; 1,800' of 12", 11,600' of 8" pipe; 41 manholes; three lampwells. Alternate on type of pipe will be received.
DM 9-17

●**SEWER PROJECT— Lewiston, Idaho**
(Estimated cost $55,000)

Bids will be opened 8 p.m., October 7, by City Council, City Hall, Lewiston, for sewer work in north Lewiston. Specifications with Elmer E. Soniville, city engineer, Lewiston. $5 deposit. Bid bond 5%.

Quantities: 9,700 c.y. excavation and backfill; 1,800' of 12", 11,600' of 8" pipe (alternates on types of pipe); 41 manholes; 3 lampwells.
SP 9-14

▲**SLIDE REPAIR— Lucky Peak Reservoir, Idaho**

Award is pending on slide repair on Highway 21, Lucky Peak Reservoir, near Boise, CIVENG-45-164-58-7, on which bids were opened September 13 by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla. BIDS: Foss & Holmes, Box 232, Boise, $63,698; Karl Woodall, 2114 Pond, Boise, $51,025; Quinn Bros. & Robbins, Inc., Box 1126, Boise, $64,650; Earl L. McNutt Co., 351½ Broadway, Eugene, Ore., $77,588; C. H. Elle Construction Co., Box 1190, Pocatello, $91,127; Macgregor Triangle Co., 200 Sunrise Rim, Boise, $65,036. Government estimate, $44,982.
DM 9-18. Previous report 8-31

★**STEEL PEDESTRIAN BRIDGE— Moscow, Idaho**

Award to John E. Thomas, 408 N. Hayes, Moscow, $2,887, by City Council, City Hall, Moscow, for construction of a steel pedestrian bridge across Paradise Creek on Home St. in Moscow.
SP 9-13. Previous report 9-6

▲**DRIFT CONTROL MODIFICATIONS—** **Pend Oreille, Idaho**

Bid received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modifications to drift control, consisting of driving 1,680' untreated timber piling and dividing 200' existing log booms to form 100' sections, and adding float logs under booms at two drift control sites in the Albeni Falls reservoir, Lake Pend Oreille; CIVENG-45-108-58-7. Bids opened September 12. ONLY BID: Kenmor Marina, Inc., Sandpoint, Idaho, $23,920. Engineer's estimate, $33,644. SP 9-14. Previous report 9-6

★**HYDRAULIC LIFT—** **Pocatello, Idaho**

Award to Safway Scaffold & Power Tool Co., 2923 Idaho, Boise, $2,568, by Ted Cramer, state Purchasing agent, 225 State House, Boise, for a bulb snatcher hydraulic lift for Idaho State College at Pocatello. Bids opened August 26.

SP 9-7. Previous report 8-15

SEWAGE PROJECT— **Sandpoint, Idaho**
(Estimated cost $278,000)

Bond issue of $140,000 was approved in the September 10 special election held by City Council, City Hall, Sandpoint, to finance construction of a sewage disposal plant, including lift station and outfall line, at Sandpoint. SC 9-18. Previous report 8-13

BURNS CREEK DAM, POWERPLANT— **Snake River, Idaho**
(Estimated cost $44,240,000)

The U. S. Senate has approved construction of the Burns Creek dam and powerplant to be located 30 mi. downstream on the Snake River from Palisades Dam in Idaho, for Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo. The project has yet to go to the House for final action. Operation of the dam, powerplant and reservoir would be in conjunction with the existing Palisades reclamation project.

GH 9-10

●**BANK PROTECTION REPAIR—** **Snake River, Idaho**

Bids will be opened 2 p. m., October 10, by Corps of Engineers, Walla Walla office, Bldg. 602, City-County Airport, Walla Walla, for repair of bank protection at the Blackfoot Area, Snake River, Idaho; CIVENG-45-164-58-14. Specifications with above office. Bid bond 20%. Quantities: 6,000 c.y. excavation; 5,100 c.y. embankment; 4,900 c.y. dumped riprap. SP 9-12. Previous report 9-10

MONTANA

★**CURB, GUTTER, DUMP TRUCKS—** **Billings, Mont.**

Awards announced on construction of combination curb and gutter and drive approaches in SID No. 713 and on furnishing two dump trucks. Bids opened by City Council, Billings, September 10. AWARDS—Hitz Construction Co., 2111 4th N., Billings, $1,269 (SID 713); International Harvester Co., $15,440 (trucks).

EE 9-18. Previous report 8-27

●**PAVING, STORM SEWERS—** **Bozeman, Mont.**

Bids will be opened 1 p. m., September 30, by City Council, City Hall, Bozeman, for street improvement involving paving, curb and gutter in SID Nos. 389, 390, 391, 393, 394, 395 and 398, and for construction of drainage improvements, involving storm sewers and inlets, in SID No. 392, Bozeman. Specifications with Harold Hoskins & Associates, consulting engineers, 24th and River Drive, Great Falls. $25 deposit on one set, $25 each additional set. Certified check 10%.

Quantities: 106,050 sq. yd. pavement; 11,500' of 12" to 36" reinforced concrete pipe and appurtenances; 1,376' of 10" portland cement pipe. SP 9-17. Previous report 8-21

▲**SIDEWALKS, CURBS, PUMPS, EXCAVATION—** **Chinook, Mont.**

Bids received by City Council, City Hall, Chinook, for sidewalks, curbs and pumps in SID No. 41, and for excavation work in that district in west Chinook. LOW BIDS—SIDEWALKS, CURBS, PUMPS: Oliver Schubert, Chinook, $83,601. EXCAVATION: Willis Morris, Chinook, $49,458. SC 9-17

★**WATER SYSTEM IMPROVEMENTS—** **Chinook, Mont.**

Awards to Frank Papillo, Havre, $163,174 (water system) and Chicago Bridge & Iron Co., Salt Lake City, Utah, $68,880 (storage tank), by City Council, City Hall, Chinook, for water system improvements, including a new distribution system and a 200,000-gal. capacity elevated storage tank. Specifications by Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Helena.

SP 9-11. Previous report 8-30

★**EARTHWORK, STRUCTURES FOR DRAINS—** **Glendive, Mont.**

Award to Holm-Sutherland Co., Inc., Box 578, Billings, $43,348, by Bureau of Reclamation, Glendive, for earthwork and structures for open and closed drains 1-6-Q, 2-7-S, 2-3-K2, 2-3-K3, in the counties of Custer, Prairie and Dawson near the towns of Glendive and Terry, Mont.; Spec. No. 600C-179. SP 9-11. Previous report 8-23

WATER SYSTEM— **Great Falls, Mont.**
(Estimated cost $2,600,000)

The City Clerk, City Hall, Great Falls, has issued invitations to several engineering firms to submit proposals for engineering work on the proposed water system improvements in Great Falls. The proposals will be considered by the City Council on September 13. The firm of Black & Veatch, consulting engineers, 4706 Broadway, Kansas City, Mo., did preliminary work on the project and advised the council that it had believed that it would be retained for the entire project. SC 9-12. Previous report 8-29

●**STATE HIGHWAY PROJECT—** **Helena, Mont.**

Bids will be opened October 24 by Montana State Highway Commission, State Capitol Bldg., Helena, for the following highway construction project. Specifications with above office.

MONTANA AVENUE OVERPASS—BILLINGS: Construction of 1,721' overpass crossing Northern Pacific railroad tracks at the west end of Montana Ave. in Billings.

EE 9-13

★**DISTRIBUTION SYSTEM, STORAGE TANK—** **Hingham, Mont.**

Award to Joe Fagenstrom & Son, Black Eagle, $41,953, by Town Council, Hingham, for construction of a water supply distribution system (Sched. 1) in Hingham. Plans by Wenzel & Co., Country Club Addition, Great Falls. Award on storage tank (Sched. 2) not released.

SP 9-12. Previous report 8-20

●**DRILL, CASE WELL—** **Kalispell, Mont.**

Bids to be opened 10 a. m., P.S.T., October 3, by Fish and Wildlife Service, The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, Ore., for drilling, casing a fresh water supply well at Creston Fish Cultural Station near Kalispell, Mont. Plans with Leo L. Laythe, regional director, Box 373, Portland, Ore.

DM 9-17

★**RESERVOIR, PUMPHOUSE, PIPING—** **Miles City, Mont.**

Award to Regan Plumbing & Heating, 11 S. 9th, Miles City, Mont., $169,133, by U. S. Fish & Wildlife Service, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for construction of reservoirs, ponds, ditches, dikes, piping, reinforced concrete structure, pumphouses, pumps, roads and allied appurtenances at the proposed U. S. Fish Cultural Station about one mi. south and west of Miles City.

WB 9-18. Previous report 8-14

●**GRADING, BRIDGE—** **Missoula, Mont.**

Bids will be opened 10 a. m., October 2, by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for grading, surfacing and constructing an 80' reinforced concrete bridge on 7.878 mi. West Gallatin Highway, Gallatin National Forest, Gallatin County, Mont.; FHP No. 42-J5, K1. Specifications with above office. Bid bond 5%.

Quantities: 20 acre clearing and grubbing; 260,000 c.y. excavation; 483,000 sta. yd. overhaul; 50,700 ton crushed aggregate base; 99,000 gal. asphalt; 185 c.y. concrete; 43,000 lb. reinforcing steel; 264' structural plate pipe arch; 3,800' culvert pipe. SP 9-17

★**COUNTY ROAD RELOCATION—** **Noxon Rapids, Mont.**

Award to Murphy Bros., Inc., E. 3728 Broadway, Spokane, $20,000, by Washington Water Power Co., Inc., W. 825 Trent, Spokane, for relocating .3 mi. of county road near the mouth of Trout Creek, involving raising the road from its present level where it crosses Trout Creek to above the water line of the Noxon Rapids Reservoir. SC 9-13

ALASKA

▲**ROCK BREAKWATER—** **Haines, Skagway, Alaska**

Late bids were received (delayed in mail) by Alaska Public Works, Juneau, on construction of rock breakwater at Haines and Skagway small boat harbors. HAINES: Rock & Dirt Construction, Box 3241 Eastchester Branch, Anchorage, $137,748 and an offer of $24,000 reduction if awarded both contracts. SKAGWAY: Rivers Bros. & Wright, $137,368; Rock and Dirt, $92,049, with reduction offered for both contracts. Keil Peterman, Juneau, is low at $123,000 on Haines job and $110,000 on Skagway.

JU 9-14. Previous report 9-12

▲**PAVING—** **Ladd AFB, Alaska**

The only bid, submitted by S. S. Mullen, Inc., Box 712, Fairbanks, in the amount of $18,877, was rejected by U. S. Air Force, Procurement Office, Bldg. 1564, Wing 4, Ladd AFB, for installation of additional paving at road intersections on the base. Bid was opened August 29 and readvertisement for bids will not be issued.

SP 9-14. Previous report 8-24

●**SIDEWALKS—** **Juneau, Alaska**

Bids to be opened 3 p. m., September 27, by General Services Administration, 126 Federal Office Bldg., 909 1st Ave., Seattle, Wash., for screenline changes and sidewalk at the Federal and Territorial Bldg., 4th, 5th and Main streets, Juneau, Alaska; SEA-598. Plans with Seattle office. DM 9-17

NORTHERN CALIFORNIA

●**SANITARY SEWER, PAVING—** **Belmont, Calif.**

Bids on two projects will be opened 8 p.m., October 14, by City Council, City Hall, Belmont: Improvement of Winding Way, Ross St., and North Road sanitary sewer project; and repaving for the Panorama Heights improvement project. RC 9-21

▲**UTILITIES—** **Davis, Calif.**

Bids received by Regents of the University, Administration Bldg., University of California, Davis, for construction of utilities for Campbell Tract, University of California, Davis campus. Work includes furnishing and installing gas and water utility systems complete with pipe, valves, fittings, pipe supports, pipe blocks, trenching. Bids opened September 6. LOW BIDS: John H. McCosker, 1501 E. Shore Blvd., Berkeley, $90,000; Luppen and Hawley, 3126 J St., Sacramento, $98,756; Associated Engineers, Inc., 3606 El Camino Real, Palo Alto, $93,550.

EB 9-21. Previous report 8-31

SQUAW CREEK DAM— **El Dorado, Calif.**

The South Side County Water District has authorized Engineer Claude Hill to make a preliminary survey of the feasibility of a dam site on Squaw Creek, six mi. southeast of Placerville, El Dorado County. Chairman John C. Forni of the district board said it is believed the site will store 21,000 acre feet of water, for which the district holds rights on Clear Creek and Camp Creek. If

the preliminary survey supports the feasibility of the project, the board will request the reclamation bureau to survey the site. RC 9-21

▲GUARDHOUSES, PARKING AREA, ELECTRICAL LINE— Folsom, Calif.

Bids received by Bureau of Reclamation, Folsom, for constructing guardhouses and parking area (Sched. 1), and 4.16-kv. distribution line (Sched. 2), Folsom Dam, near Folsom in Sacramento County (Central Valley Project), Spec. No. 200C-365. Bids opened September 12. LOW BIDS: Sched. 1—Brighton Sand & Gravel Co., Box 1, Perkins, $71,-331; Granite Construction Co., Box 900, Watsonville, $78,665; A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $78,974. Sched. 2 (only bids)—Slater Electric Co., 608 Sutter S., Folsom, $9,232; Collins Electrical Co., Inc., 611 W. Fremont St., Stockton, $12,343. RM 9-21. Previous report 8-31

LEVEE— Lodi, Calif.

Bids will be called at a later date by the City Council, City Hall, Lodi, for construction of a new flood-control levee on the Mokelumne River. The levee will be between 3,000′ and 4,000′ long, and 51½′ high, extending from Roper Ave. to Laurel Ave. in Lodi. Plans and specifications, prepared by City Engineering Department, A. C. Heckenlaible, city engineer, have been approved.

Quantities: 3,800 c.y. excavation of inspection ditch; 41,500 c.y. construction of levee embankment; 47 c.y. construction of concrete wall. RM 9-21. Previous report 9-7

●STREET RESURFACING—Martinez, Calif.

Bids will be opened 11 a.m., October 1, by Board of Supervisors, Contra Costa County, Martinez, for resurfacing Pacifica Ave. from Riverview Intermediate School to Flumaveg Rd.; Proj. No. 5093-57-1. Specifications available from Public Works Department, Box 509, Martinez. $2.50 charge. Completion time 30 days.

Quantities: 60,000 gals. water, furnish and apply; 1,000 c.y. roadway excavation; 2,200 tons untreated base; 450 tons plant-mixed surfacing; 70′, 12″ corrugated metal pipe, 16 gage; 58′, 18″ corrugated metal pipe, 16 gage. RM 9-21

★STREET IMPROVEMENT— Millbrae, Calif.

Award to Bragato Paving Co., 500 Bragato Rd., Belmont, $9,475, by City Council, Millbrae, for improvement of Magnolia Ave. at City Hall site in Millbrae. Bids opened September 3. EB 9-21. Previous report 8-31

FLOOD CONTROL PROJECT— Oakland, Calif.

The Board of Supervisors of the Flood Control and Water Conservation District has approved hiring three private engineering firms to begin work immediately on right-of-way surveys for the $5,000,000 San Lorenzo Creek flood control project. The firms are Murray & McCormick Inc., John A. Mancini and Martin V. Williams. James F. Vivrette, engineer-manager of the floor control district, estimates the private firms will complete the surveys in two months. The Corps of Engineers expects to award a contract next spring for construction of the initial stage of the project—improvement of San Lorenzo Creek from San Francisco Bay to B St. in Hayward. RC 9-21

HYDROELECTRIC AND WATER PROJECT Oakland, Calif.

The Eastbay Municipal Utility District has formally applied to the Federal Power Commission for a license to build a $63,917,000 hydroelectric and water project on the Mokelumne River and its south fork, in Amador, Calaveras, and San Joaquin counties. The proposal is part of the $95,000,000 long range plan to bring an additional 125,-000,000 gals. of water a day to the Eastbay.

The proposed project includes three dams to be built at Middle Bar, Camanche and Railroad Flat, with a generating capacity of 31,500 kilowatts. EBMUD also proposes to construct crest gates at its existing Pardee Dam to increase storage, and to enlarge the Pardee power plant by adding 7,500 kilowatts of generating capacity to make a total of 22,500. An 80-mile aqueduct 87″ in diameter would be built to parallel the district's two existing Mokelumne aqueducts, extending from the west portal of the Pardee Tunnel to the district's Walnut Creek pumping plant. The district also would build a second Pardee outlet tower and tunnel paralleling the existing tower and tunnel system which interconnects the Pardee Reservoir and the existing aqueducts. RC 9-21

▲DRAIN— Oakland, Calif.

Bids received September 12 by City Council, City Hall, Oakland, for construction of a drain in Hillmont Drive, 150′ more or less, easterly of 75th Ave. and in lots 4 and 5, Leona Heights Addition, adjacent thereto, in Oakland. BIDS: McGuire & Hester, 796 66th Ave., Oakland, $4.50 (per linear ft. of shafts with rock backfill), $17.00 (per linear ft. of 6″ perforated vitrified clay pipe drain placed in rock backfill), $6.00 (per linear ft. of 1½″ pipe drain, in boring); George F. Casey Co., 1337 2nd St., Berkeley, $8.70, $6.50, $6.25; P & Z Co. Inc., 120 S. Maple Ave., South San Francisco, $5.74, $26.24, $4.25. RM 9-21

●STREET IMPROVEMENT— Oakland, Calif.

Bids will be opened 12:30 p.m., September 26, by Gladys H. Murphy, city clerk, City Hall, Oakland, for improvement of Altamont Ave. between Sunnymere Ave. and Hillmont Drive, including grading, and construction of selected material sub-base, concrete curb, concrete gutter, crusher run base, asphaltic concrete surface course, concrete sidewalk, and concrete driveways, Res. No. 36224 C.M.S. Specifications available at above address. Certified check or bid bond 10%. RC 9-21

●PAVING, FENCE— Oakland, Calif.

Bids will be opened 4 p.m., September 24, by Selmer H. Berg, secretary, Board of Education, City of Oakland and Oakland Unified School District of Alameda County, 1025 Second Ave., Oakland, for two projects. PROP. No. 1—Grading and paving adjacent to the site of the Franklin Elementary School, 915 Foothill Blvd., Oakland. PROP. No. 2—Installation of a chain-link fence adjacent to the site of the Franklin Elementary School. Plans available from Director of Architectural and Engineering Services at above address. Cashier's check, certified check or bid bond—Prop. No. 1, $200. Prop. No. 2, $250. RC 9-21

●WATER RESERVOIR— Oakland, Calif.

Bids will be opened 2 p.m., September 27, by East Bay Municipal Utility District, room 104, 2130 Adeline St., Oakland, for completing the excavation for and constructing an 80 MG capacity concrete lined and covered water storage reservoir near San Pablo, Calif. Spec. No. 702. Specifications available at the district's engineering department, above address.

Quantities: excavation, 15,000 c.y.; embankment, 15,000 c.y.; concrete, 10,700 c.y.; precast concrete roof, 375,000 sq. ft. RC 9-21

SEWAGE DISPOSAL PLANT— Oroville, Calif.

Oroville area residents have reviewed a series of surveys concerning engineering and financing, but no action has been taken on a plan to construct a $1,000,000 sewage disposal plant in Oroville. RC 9-21

▲CLEARING, GRUBBING— Placerville, Calif.

Bids received September 10 by El Dorado County Board of Supervisors, Court House, Placerville, for clearing and grubbing of the landing strip area and clear zones at Lake Tahoe airport, Federal Aid Airport Project No. 9-04-115-802. LOW BIDS: Joe Vicini, Box 206, Placerville, $11,680; J. H. Trisdale, Inc., Box 779, Redding, $11,800; Clayton C. King, 69 Grand Ave., Oroville, $23,500. RM 9-21

RESERVOIR— Redwood City, Calif.
(Estimated cost $471,135)

The City Council of Redwood City has voted to advertise for new bids on the Sequoia Reservoir project, after having rejected all previous bids, the lowest of which was $100,000 in excess of the funds on hand for the purpose. The new invitation to bidders will be based on revised designs that are to be submitted and recommended by engineer Lawrence G. Brian, Redwood City. Bids will be asked on two redesigned 4,000,-000 gal. concrete reservoirs, two 4,000,000 gal. steel reservoirs, and one 8,000,000 gal. steel reservoir, along with separate bids for painting and offsite and onsite piping. Brian estimated that the new specifications should be ready in about 30 days. RC 9-21. Previous report 8-31

★SUBSTATIONS— Sacramento, Calif.

Award to B & B Construction Co., 937 49th St., Sacramento, $9,489, by Sacramento Municipal Utility District, 59th & R, Sacramento, for furnishing and installing three substations—Bercut Richards, 34th & E (Rio Linda), and Kathleen and Academy—including grading, surfacing, transformer pad, conduit, grounding system, and chain link fencing. Bids opened August 28. RM 9-21. Previous report 8-24

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids to be opened 2 p.m., October 2, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

IX-INY-1242—Grade and pave with road-mixed surfacing on imported base material, about 3.9 mi., on Whitney Portal Rd. between Hunter's Flat, 11.7 mi. west of Lone Pine, and near National Forest Boundary, Inyo County.

III-NEV-765—Grade about 3 mi. of two-lane highway and install drainage facilities on Tyler-Foote Rd., between Kennedy Ranch and 0.7 mi. west of North Columbia Nevada County.

III-PLA-STATE PARK—Grade and surface roads, parking areas and launching ramps with portland cement concrete and plant-mixed surfacing and install drainage facilities, electrical and water conduits in Folsom Lake State Park, at Beal's Point and Granite Bay, Placer County.

II-LAS-1232—Clear and grub about 10.3 mi. of highway right-of-way on Feather Lake Highway, about 20 mi. northwest of Susanville, Lassen County. RM 9-21

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, for the following highway construction on which bids were opened September 4.

I-MEN-56-D—Repairing bridge across Big River, about 12 mi. south of Fort Bragg in Mendocino County. AWARD: Al Erickson Co., Box 284, Napa, $11,722.

I-MEN-56-G,H—Construct two reinforced concrete slab bridges, and grade and treat bridge approach roadways with penetration treatment on imported base material, about 0.3 mi. near Rockport, at the South Fork of Cottoneva Creek and at Cottoneva Creek in Mendocino County. AWARD: Tom Hull, 930 Carlson, Eureka, $80,496. RM 9-21. Previous report 9-7

WATER POLLUTION STUDY— San Francisco, Calif.

The State Water Pollution Control Board has approved spending $700,000 for water pollution studies in the San Francisco and central valleys areas. Dewitt Nelson, chairman of the Board, said that $390,000 will be used for a study of control problems in San Francisco Bay. An additional $170,000 is to be used for a one-year study on the Sacramento River. RC 9-21

●SEWAGE DISPOSAL AND WATER SYSTEMS— San Francisco, Calif.

Bids will be opened about October 15 by Corps of Engineers, 180 New Montgomery St., San Francisco, for construction of two sewage disposal systems and increasing and extending two water supply systems at two locations in the San Francisco Defense area, special AAA sites, SF-08 and 09, San Pablo Ridge, Contra Costa County, SF-31, Lake

Chabot, Alameda County. Serial No. ENG-04-203-58-9. Work includes 13,000', 4" and 8" V.C. gravity, 4" C.I. force sewer lines, and 4,000', 3" and 4" water supply lines. Systems include two concrete block pump stations, a primary sewage treatment plant consisting of an Imhoff tank and two sludge beds. Also included are fencing, creek crossing structure, cattle guard, approximately 1,000 sq. ft. of stabilized aggregate surfacing and wood bumpers, drainage facilities, outside electrical distribution, and seeding. Specifications available at above office. Bid bond 20%. Completion time 100 days. RM 9-21

★**PUMPING PLANT— Stockton, Calif.**

Award to Stockton Construction Co., 639 W. Clay St., Stockton, $23,790, by City Council, City Hall, Stockton, for construction of stormwater pumping plant at Brookside Tract in Stockton. Bids opened September 10. OTHER BIDS: Goold & Son, 1601 Turnpike Rd., Stockton, $24,444; D. A. Parrish & Sons Inc., 3128 E. Miner Ave., Stockton, $22,810; C. Norman Peterson Inc., 2832 Ninth St., Berkeley, $32,129. RM 9-21

★**PUMPING PLANT— Stockton, Calif.**

Award to Stockton Construction Co., Inc., 639 W. Clay St., Stockton, $37,647, by City Council, City Hall, Stockton, for construction of the Buena Vista stormwater pumping plant in Stockton. Bids opened September 10. OTHER BIDS: R. Goold & Son, 1601 Turnpike Rd., Stockton, $34,369; C. Norman Peterson, Inc., 2832 Ninth St., Berkeley, $38,530. RM 9-21

★**STREET RESURFACING— Stockton, Calif.**

Award to S. M. McGaw Co. Inc., 2216 E. Miner Ave., Stockton, $13,808, by City Council, City Hall, Stockton, for resurfacing E. Main St. for ¾ mi. between Locust and Filbert Sts. in Stockton. RC 9-21

▲**SEWAGE DISPOSAL PLANT— Tracy, Calif.**

Bids received September 10 by City Council, City Hall, Tracy, for construction of a sewage disposal plant and West Side sewer trunk line in Tracy. Bids on the disposal plant were made on two alternate methods of construction, one including a digestive system, and the other incorporating a catalytic reduction system. Two bids, with and without the new reduction system, were submitted by each contractor. Bids are being held under advisement until October 8. LOW BIDS—DISPOSAL PLANT: Peletz Construction Co., 475 W. College Ave., Santa Rosa, $224,170, $216,170; North Bay Construction Co., 450 College Ave., Santa Rosa, $240,762; $226,762; C. Norman Peterson Inc., 2832 Ninth St., Berkeley, $248,748, $234,549. TRUNK LINE: Jackson Hopkins Co., Box 490, Bakersfield, $48,278; Hackett Bros. Inc., Box 145, Los Altos, $48,700; G. G. Williamson Co., Box 510, Chico, $51,283. RC 9-21. Previous report 8-24

●**BULKHEAD— Trinity Dam, Calif.**

Bids will be opened 2 p.m., October 17, by Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colo., for the following equipment for the outlet works at Trinity Dam, Central Valley Project, Calif. Spec. No. DS-4968. Schedule 1—Item 1: One 16-ft. diameter, sperical, intake bulkhead. Item 2: One lot of embedded metalwork, but not including anchor bolts, for the spherical bulkhead. Schedule 2—Item 3: One lot of anchor bolts for the spherical bulkhead embedded metalwork. Specifications available at above address. Shipping time 360 days. RM 9-21

●**SITE PREPARATION— Walnut Creek, Calif.**

Bids will be opened 3 p.m., September 26, by Walnut Creek School District, Contra Costa County, 1768 Ygnacio Valley Rd., Walnut Creek, for completion of site work at the following locations: Buena Vista School, 2355 San Juan Ave.; Murwood School, 2050 Vanderslice Ave.; Parkmead Lower Grade School, 1920 Magnolia Way; Parkmead Upper Grade School, 1847 Newell Ave.; Walnut Creek School, 2425 Walnut Blvd.; Walnut Heights School, 4064 Walnut Blvd. Work includes grading, paving, storm drainage. Specifications available from office of the business manager, above address. Certified check or cashier's check 10%. RC 9-21

▲**SIDEWALKS— Woodland, Calif.**

A low bid of $225,798 was submitted by McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, to the Board of Supervisors, Yolo County, Woodland, for installation of sidewalks, curbs and gutters in the West Sacramento Improvement District. Four bids were received. RC 9-21

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.

STEEL DECK TRUSS BRIDGE
BIDS CLOSE 10 A.M., OCTOBER 4
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 19, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 757 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 A.M. on October 4, 1957, for furnishing the material and performing the work for constructing a 598-foot steel deck truss bridge, Washington Forest Highway Project 30-C, Wind River Highway, Wind River Bridge, Gifford Pinchot National Forest, Skamania County, Washington, involving 800 Cu. Yds. Structure Excavation; 1,026 Cu. Yds. Concrete; 94,000 Lbs. Reinforcement Steel; All Reqd. Structural Steel; 1,181 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, 757 Morgan Building, Portland, Oregon. B. M. French, Regional Engineer.
5946—9-21

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., OCTOBER 1
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 1, 1957, 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 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 8 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading and Constructing a Reinforced Concrete Slab Bridge on 2.114 miles of Primary State Highway No. 1 in Whatcom County, FIELDING STREET TO NORTH STREET IN BELLINGHAM, FAP No. I-001-5(23), involving about 55 acres of Clearing, 214,400 cubic yards of Common Excavation, 220,400 cubic yards of Solid Rock Excavation, 74,000 units of Overhaul, 8,650 cubic yards of Excavation of Unsuitable Material, 34,000 tons of Selected Roadway Borrow, 2,600 cubic yards of Sand Borrow, 3,100 tons of Crushed Stone Surfacing, 38 tons of Asphalt Cement, 290 cubic yards of Crushed Cover Stone and Mineral Aggregate, 4,150 tons of Asphaltic Concrete, 9,950 linear feet of Cement Concrete Curb and Gutter, 100 linear feet of Integral Cement Concrete Curb, 1,960 linear feet of Precast Traffic Curb, 110 linear feet of Galvanized Conduit Pipe, 2,459 linear feet of Corrugated Metal Pipe, 12,245 linear feet of Concrete Pipe, 290 linear feet of Copper Pipe, 1,922 linear feet of Cast Iron Pipe, 45,212 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 150 linear feet of Beam Guard Rail, 3,005 square yards of Cement Concrete Sidewalk and Driveway, a lump sum bid for Superstructure (about 530 cubic yards of Concrete and 99,000 pounds of Steel Reinforcing Bars), 983 cubic yards of Concrete, 122,840 pounds of Steel Reinforcing Bars, 409 linear feet of Standard Bridge Railing, 4,200 linear feet of Treated Timber Piling, 16,000 linear feet of Untreated Timber Piling and other items. Minmum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Clearing, Draining and Grading on 1.521 miles of State Highway No. 1 in Pierce County, PONDERS TO N. P. RAILWAY, FAP No. I-001-3(19) Unit 2, involving about 95 acres of Clearing, 417,000 cubic yards of Common Excavation and Borrow, 185,500 units of Overhaul, 14,700 tons of crushed Stone Surfacing and Special Gravel Surfacing, 4,400 cubic yards of Top Soil, 41 tons of Asphalt Cement, 380 cubic yards of Crushed Cover Stone and Mineral Aggregate, 2,930 tons of Asphaltic Concrete, 3,643 linear feet of Asphaltic Shoulder Curb, 202 linear feet of Asphaltic Concrete Spillway and Gutter, 170 linear feet of Precast Traffic Curb, 194 cubic yards of Concrete, 43,840 pounds of Steel Reinforcing Bars, 868 linear feet of Concrete Pipe, 2,650 linear feet of Corrugated Metal Pipe, 462 linear feet of Beam Guard Rail, 70 Guide Posts, 477 cubic yards of Riprap, 2,400 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.
3. Clearing, Draining, Grading, Surfacing, Constructing a Cement Treated Base and

Paving with Type I-1 Asphaltic Concrete on 1.613 miles of Secondary State Highway No. 1-T in Clark County, VANCOUVER LAKE VICINITY, FAS No. S-0261(2), involving about 16 acres of Clearing, 176,300 cubic yards of Common Excavation, 9,230 units of Overhaul, 2,800 cubic yards of Excavation of Unsuitable Material, 29,600 tons of Ballast and Crushed Stone Surfacing, 4,530 tons of Asphaltic Concrete, 440 cubic yards of Mineral Aggregate, 44 tons of Asphalt Cement, 7,500 tons of CTB Aggregate, 1,600 barrels of Portland Cement, 3,100 linear feet of Asphaltic Shoulder Curb, 2,010 linear feet of Concrete Pipe, 566 linear feet of Corrugated Metal Pipe, 35 linear feet of Steel Pipe, 1,753 linear feet of Beam Guard Rail, 80 Guide Posts and other items.

4. Constructing Two Reinforced Concrete Flat Slab Bridges on 0.065 mile of Primary State Highway No. 1 in Whatcom County, C.M. ST. P. AND P. R.R. AND SQUALICUM CREEK BRIDGE, FAP NO. I-001-5(21), involving about 3,100 cubic yards of Concrete, 1,135 linear feet of Standard Bridge Railing, 521,000 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.
5. Constructing a Reinforced Concrete Box Girder Bridge and a Reinforced Concrete Rigid Frame Bridge on 0.016 mile of Primary State Highway No. 1 in Pierce County, SOUTH 96TH STREET OVERCROSSING AND SOUTH 84TH STREET UNDERCROSSING, FAP No. I-001-3(30), involving about 66,500 cubic yards of Common Excavation and Borrow, 2,260 tons of Selected Roadway Borrow, 1,125 tons of Crushed Stone Surfacing, 760 tons of Asphaltic Concrete, 66 linear feet of Concrete Pipe, a lump sum bid for Superstructures (about 1,538 cubic yards of Concrete and 387,000 pounds of Steel Reinforcing Bars), 1,300 cubic yards of Concrete, 256,000 pounds of Steel Reinforcing Bars, 430 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. Constructing Two Precast, Prestressed Concrete Undercrossings on Primary State Highway No. 1 in Lewis County, 13TH STREET AND NATIONAL AVENUE UNDERCROSSING, FAP No. I-001-2 (54), involving about 1,920 cubic yards of Common Excavation and Borrow, 860 tons of Crushed Stone Surfacing and Ballast, 869 cubic yards of Concrete, 2,100 linear feet of Prestressed Concrete Girders, 714 linear feet of Standard Bridge Railing, 151,000 pounds of Steel Reinforcing Bars, 18,000 pounds of Structural Steel, 10,100 linear feet of Concrete Piling and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
7. Clearing, Draining, Grading and Surfacing with Crushed Stone on 2.719 miles of a Chelan County Road, ENTIAT RIVER ROAD, FAS No. S-0440(3), involving about 94,200 cubic yards of Common Excavation, 19,070 cubic yards of Solid Rock Excavation, 33,895 tons of Ballast and Crushed Stone Surfacing, 22 cubic yards of Concrete, 1,200 pounds of Steel Reinforcing Bars, 608 linear feet of Structural Steel, 1,602 linear feet of Concrete Pipe, 720 linear feet of Corrugated Metal Pipe, 2,460 linear feet of Steel and Iron Pipe, 2,179 linear feet of Wire Fence, 1,964 linear feet of Deer Fence and other items.
8. Clearing, Draining and Grading on 0.932 mile of Clallam County Road, UPPER ELWHA RIVER ROAD, FAS No. S-1247 (1), involving about 2,430 cubic yards of Common Excavation, 26,480 cubic yards of Solid Rock Excavation, 1,000 cubic yards of Loose Riprap, 240 linear feet of Concrete Pipe and other items.
9. Draining, Grading Surfacing, Paving with Bituminous Mix and Constructing Reinforced Concrete Cribbing on 0.127 mile of Primary State Highway No. 1 in Skagit County, NORRIS STREET EXTENSION NEAR BURLINGTON, a State Project, involving about 2,350 cubic yards of Common Excavation and Borrow, 660 cubic yards of Selected Roadway Borrow and Crushed Stone Surfacing, 270 tons of Bituminous Mix, 9 cubic yards of Concrete, 1,250 pounds of Steel Reinforcing Bars, 156 linear feet of Concrete Pipe, 116 linear feet of Corrugated Metal Pipe, 7,918 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 450 linear feet of Beam Guard Rail and other items.
10. Surfacing with Crushed Stone and Constructing a Light Bituminous Surface Treatment on 1.030 miles of a State Park Road in Spokane County, MOUNT SPOKANE STATE PARK ROAD, a State Project, involving about 2,770 cubic yards of Selected Roadway Borrow, 1,075 cubic yards of Crushed Stone Surfacing and Crushed Cover Stone, 17 tons of Asphalt Cement, 184 linear feet of Corrugated Metal Pipe and other items.
11. Clearing, Draining, Grading and Surfacing with Crushed Stone of 27.838 miles of Adams County Roads, BLOCK 46, 47 FEEDER ROADS, ET AL., a State Project, involving about 27.8 miles of grading, 59,410 tons of Crushed Stone Surfacing, 2,828 linear feet of Corrugated Metal Pipe and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5943—9-14, 21

LIFT STATION, SEWAGE TREATMENT LAGOON

BIDS CLOSE 8 P. M., SEPTEMBER 24

Roundup, Montana

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned until 8:00 P. M., September 24, 1957, and then publicly opened and read by the undersigned at the City Hall, Roundup, Montana, for the construction of a lift station and sewage treatment lagoon.

Principal items are—SCHEDULE 1: 19,000 cubic yards lagoon excavation and embankment; one manhole and one lift station with two 300 G.P.M. pumps, and one 600 G.P.M. pump, one inlet manhole and one outlet structure, 100 lineal feet of 15-inch vitrified clay sewer pipe, 700 lineal feet of 18-inch corrugated metal pipe and appurtenant work, all as set forth in plans and specifications prepared by Wenzel and Company, Consulting Engineers, Great Falls, Montana and on file with the City Clerk, where they may be inspected without charge, and from either of whom they may be obtained upon deposit of $15.00 per set as a guarantee of their safe return. The full amount of the deposit will be returned to each actual bidder submitting a bona fide bid, immediately upon return of said plans and specifications within 10 days after the date of the bid opening.

Each bid must be accompanied by a certified check made payable to the City of Roundup, Montana, in an amount not less than ten percent (10%) of the total bid as bid security.

Each proposal shall be sealed and addressed to the City Clerk, City Hall, Roundup, Montana, and the name of the project, and the current Montana Contractor's License Number held by the bidder shall be plainly written on the outside of the envelope. The Owner reserves the right to waive irregularities and to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening thereof for a period of thirty (30) days.

BY ORDER OF THE CITY COUNCIL,
City of Roundup, Musselshell County, Montana.
CITY OF ROUNDUP, MONTANA.

5937—9-6, 12, 18

GRADING

BIDS CLOSE 10 A.M., OCTOBER 1

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 17, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 753 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a.m., on October 1, 1957, for furnishing the material and performing the work for constructing 0.815 mile grading, Oregon Forest Highway Project 3-A2, Oregon Coast Highway, Siuslaw National Forest, Tillamook County, Oregon, involving 23 acres Grubbing; 886,000 cu. yds. Excavation; 1,000,000 sta. yds. Overhaul; 4,300 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, 753 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

5947—9-21

DRILL, CASE WATER WELL

BIDS CLOSE 10 A.M., OCTOBER 3

Portland, Oregon

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, Extension 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T. October 3, 1957 and then publicly opened, for the furnishing of all equipment, materials, supplies, and labor to drill and case a fresh water supply well at the Creston Fish Cultural Station, near Kalispell, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

5948—9-18, 25

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., SEPTEMBER 26

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 26, 1957. 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.

1. **FG 224(5)**—Grade, gravel surfacing, concrete pavement, road-mix oiling, seal coat oiling, drain, and construction of one 75.33' steel structure over the First Avenue North Underpass on 0.195 miles of the Second Avenue North Great Falls-First Avenue North Underpass Road in Cascade County, involving about 15,870 cu. yds. excavation (detour); 0.395 mile processing; 556 sq. yds. processing; 419 sq. yds. concrete; 10,019 tons crushed gravel; 472 M gals. watering; 136 units rolling; 9,910 gals. liquid asphalt; 1,906 gals. emulsified asphalt; 220 lin. ft. reinforced concrete pipe culverts; 342 lin. ft. concrete sewer pipe; all L. sum clearing & grubbing; 8,044 sq. yds. Portland cement concrete pavement; 8 each drop inlets; 230 lin. ft. precast concrete curb; 1,202 square yds. concrete sidewalk; all L. sum excavation (Roadway); 39.279 MBM treated timber; 300.0 lin. ft. steel guard rail; 227,071.0 lbs. reinforcing steel; 3,774.0 cu. yds. concrete; all L. sum structure excavation; all L. sum removal of existing structure; all L. sum structural steel; all L. sum ornamental railing; all lump sum pipe railing; all L. sum waterproofing; all L. sum drainage system; all L. sum lighting system; all L. sum traffic signal installation; all L. sum galvanized iron; all lump sum obliterate detour road; and other items. Project to be completed by August 31, 1959.

2. **F 240(8) & F 240(9)**—Grade, gravel surfacing, plant-mix oiling, and drain 2.361 miles on the Wolf Point Streets and the West of Wolf Point-North Dakota Line Road in Roosevelt County, involving about 85,672 cu. yds. excavation; 100 cu. yds. gravel backfill; 9,578 tons plant mix; 8,107 mi. yds. overhaul; 77,387 tons crushed gravel; 5,759 cu. yds. sand base; 2,775 M gals. watering; 512 units rolling; 122,578 gals. asphalt cement; 19,777 gals. liquid asphalt; 19,611 gals. emulsified asphalt; 52 lin. ft. corrugated metal pipe culverts; 3,841 lin. ft. reinforced concrete pipe culverts; 771 lin. ft. cast-iron pipe; 276 lin. ft. relay pipe culverts; 6 each manholes with covers; 9 each drop inlets; 10,473.6 lin. ft. concrete median curb; 5,765.1 lin. ft. concrete integral curb and gutter; 461 lin. ft. concrete structures to remove; and other items. Project to be completed in 150 calendar days.

3. **F334(15)U1** — Grade, soil-cement base; plant-mix oiling; and drain 10.980 miles on

the Crow Agency-Broadus Road in Powder River County, involving about 395,188 cu. yds. excavation; 726 cu. yds. gravel backfill; 26,029 tons plant mix; 39,084 mi. yds. overhaul; 1,257 tons crushed gravel; 26,745 cu. yds. soil aggregate; 6,581 M gals. watering; 965 units rolling; 336,825 gals. asphalt cement; 40,554 gals. liquid asphalt; 202 lin. ft. corrugated metal pipe culverts; 656 lin. ft. structural plate pipe culverts; 1,082 lin. ft. reinforced concrete pipe culverts; 2,330 lin. ft. relay pipe culverts; 11,891 bbls. Portland cement; 167,487 sq. yds. processing; all L. sum miscellaneous in place to remove; 117 each concrete right-of-way monuments; 57 each concrete station markers; and other items. Project to be completed in 200 calendar days.

4. **U-UG 405(3)U1**—Construction of 254.0' of irrigation pipe under the Fifth Street, Sixth Street and Madison Street Road in the City of Missoula, Missoula County, involving about 3,298 cu. yds. excavation; 289 cu. yds. unclassified backfill; 190 cu. yds. gravel backfill; 254 lin. ft. structural plate pipe culverts; 4,982 lbs. reinforcing steel; 57.6 cu. yds. Class "AD" concrete; and other items. Project to be completed by April 30, 1958.

5. **S 187(2)U1**—Grade, gravel surfacing, bituminous surface treatment, and drain 14.054 miles on the Armells-Hays-Harlem Road in Blaine County, involving about 654,574 cu. yds. excavation; 484 cu. yds. gravel backfill; 49,313 mi. yds. overhaul; 252,419 tons crushed gravel; 14,823 M gals. watering; 2,542 units rolling; 83,791 gals. liquid asphalt; 83,791 gals. emulsified asphalt; 2,192 lin. ft. corrugated metal pipe culverts; 518 lin. ft. structural plate pipe culverts; 1,047 lin. ft. relay pipe culverts; 47 lin. ft. steel pipe; 192 each concrete right-of-way monuments; all L. sum miscellaneous to be moved; and other items. Project to be completed in 350 calendar days.

6. **S 187(2)U2**—Construction of one 100.0' treated timber bridge over Little Peoples Creek, and one 100.0' treated timber bridge over Big Peoples creek on the Armells-Hays-Harlem Road in Blaine County, involving about 4,655 cu. yds. unclassified excavation; 98,913 MBM treated timber; 2,972 MBM untreated timber; 2,470 lin. ft. treated timber piles; 3,796 lbs. structural steel; and all L. sum removal of existing structure; and maintaining traffic. Project to be completed by June 30, 1958.

7. **S 191(2)**—Grade, gravel surfacing, and drain 10.161 miles on the Jordan-Haxby Road in Garfield County, involving about 439,125 cu. yds. excavation; 1,431 cu. yds. binder; 479 cu. yds. gravel backfill; 2,862 mi. yds. overhaul on binder; 22,174 mi. yds. overhaul; 58,005 tons crushed gravel; 7,768 M gals. watering; 1,174 units rolling; 2,886 lin. ft. corrugated metal pipe culverts; 326 lin. ft. structural plate pipe culverts; 302 lin. ft. relay pipe culverts; 162 each concrete right-of-way monuments; all L. sum miscellaneous to remove; and other items. Project to be completed in 200 calendar days.

8. **S 204(1)**—Grade, gravel surfacing, bituminous surface treatment, drain and construction of one 19.0' treated timber pile structure on 8.468 miles on the Echo Lake-East and West Road in Flathead County, involving about 369,951 cu. yds. excavation; 425 cu. yds. gravel backfill; 6,929 mi. yds. overhaul; 114,137 tons crushed gravel; 68,720 tons uncrushed gravel; 9,178 M gals. watering; 1,594 units rolling; 46,944 gals. liquid asphalt; 46,944 gals. emulsified asphalt; 270 lin. ft. structural plate pipe culverts; 4,544 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; 51.02 acres clearing; 34.45 acres grubbing; 186 each concrete right-of-way monuments; 10.256 MBM treated timber; 0.342 MBM untreated timber; 800 lin. ft. treated timber piles; all L. sum removal of existing structure and maintaining traffic; and other items. Project to be completed in 200 calendar days.

9. **S 222(1)**—Grade, gravel surfacing, bituminous surface treatment, and drain 5.766 miles on the Gildford-North Road in Hill County, involving about 115,181 cu. yds. excavation; 100 cu. yds. gravel backfill; 21,215 mi. yds. overhaul; 20,790 tons crushed gravel; 56,095 tons uncrushed gravel; 3,331 M gals. watering; 660 units rolling; 36,256 gals. liquid asphalt; 36,256 gals. emulsified asphalt; 1,348 lin. ft. corrugated metal pipe culverts; 100 lin. ft. relay pipe culverts; 98 each concrete right-of-way monuments; and other items. Project to be completed in 150 calendar days.

10. **S 228(2)U1**—Grade, gravel surfacing, bituminous surface treatment, and drain 9.777 miles on the Augusta-Southwest Road in Lewis & Clark County, involving about 302,509 cu. yds. excavation; 118 cu. yds. gravel backfill; 27,967 mi. yds. overhaul; 128,786 tons crushed gravel; 7,059 M gals. watering; 1,263 units rolling; 55,608 gals. liquid asphalt; 55,608 gals. emulsified asphalt; 530 lin .ft. corrugated metal pipe culverts; 2,916 lin. ft. reinforced concrete pipe culverts; 100 lin. ft. relay pipe culverts; 150 each concrete right-of-way monuments; and other items. Project to be completed in 180 calendar days.

11. **S 228(2)U2**—The construction of one 38.0' treated timber pile bridge on the Augusta-Southwest Road in Lewis & Clark County, involving about 44.982 MBM treated timber; 1.739 MBM untreated timber; 980 lin. ft. treated timber piles; 610 cu. yds. unclassified excavation; all L. sum removal of existing structure and maintaining traffic; and other items. Project to be completed by July 31, 1958.

12. **S 317(3)**—Grade, gravel surfacing, and drain 6.871 miles on the Wyoming Line-Moorhead-Broadus Road in Powder River County, involving about 262,175 cu. yds. excavation; 935 cu. yds. binder; 343 cu. yds. gravel backfill; 1,870 Mi. yds. overhaul on binder; 13,033 mi. yds. overhaul; 34,127 tons crushed gravel; 4,576 M gals. watering; 134 units rolling; 2,718 lin. ft. corrugated metal pipe culverts; 288 lin. ft. structural plate pipe culverts; 100 lin. ft. relay pipe culverts; all L. sum miscellaneous to remove; 100 each concrete right-of-way monuments; and other items. Project to be completed in 180 calendar days.

13. **S 340(4)**—Grade, gravel surfacing, drain, and construction of one 57.0' treated timber pile bridge on 6.975 miles of the Cleveland-Chinook Road in Blaine County, involving about 282,030 cu. yds. excavation; 1,013 cu. yds. binder; 280 cu. yds. gravel backfill; 2,026 mi. yds. overhaul on binder; 35,423 mi. yds. overhaul; 44,886 tons crushed gravel; 5,097 M gals. watering; 267 units rolling; 1,874 lin. ft. corrugated metal pipe culverts; 66 lin. ft. structural plate pipe culverts; 216 lin. ft. reinforced concrete pipe culverts; 102 lin. ft. relay pipe culverts; all L. sum miscellaneous to be removed; 119 each concrete right-of-way monuments; 25,295 MBM treated timber; 0.872 MBM untreated timber; 810 lin. ft. treated timber piles; 1,124 lbs. structural steel; 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 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 his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalifications 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 Missoula, Montana.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer
5942—9-14, 21

PUMPING UNITS

BIDS CLOSE OCTOBER 31

Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4967) will be received at Denver, Colorado, until October 31, 1957, for furnishing three (3), motor-driven, horizontal, centrifugal-type, 37 cfs, 275 ft. head pumping units; and two (2) motor-driven, horizontal, centrifugal-type, 17.5 cfs, 119 ft. head pumping units 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.
5939—9-21

FLOATING BRIDGE, FERRY CONSTRUCTION

BIDS CLOSE 10 A.M., OCTOBER 15

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 15, 1957, 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.

Prequalifications 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 fifty-two dollars ($52.00) for each copy of such maps, plans and specifications. Two dollars ($2.00) of the above amount is a rental payment for the use of the maps, plans and specifications and is not returnable. The remaining fifty dollars ($50.00) is a deposit on the maps, plans and specifications and will be returned to the planholder providing the maps, plans and specifications are returned to this office not later than ten (10) days from the date of award of the contract. IF PAYMENT IS MADE BY CERTIFIED CHECK, CASHIER'S CHECK OR MONEY ORDER, PLEASE MAKE PAYMENT IN TWO CHECKS, ONE FOR TWO DOLLARS ($2.00) AND ONE FOR FIFTY DOLLARS ($50.00). Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications for the Hood Canal Bridge Unit 1—Floating Structure are on file in the office of the Chief Consulting Engineer for the Washington Toll Bridge Authority, 3201 Fremont, Seattle, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland, the offices of the District Engineers of the Department of Highways and the office of the Director of Highways where they may be inspected.

Informational copies of the plans and specifications for the Widening Four Steel Electric Ferries and the Two Evergreen State Type Vessels are on file in the office of the Washington State Ferries, Coleman Ferry Terminal, Seattle, the office of W. C. Nickum and Sons, 71 Columbia Street, Seattle, and the office of the Director of Highways where they may be inspected.

The improvements for which bids will be received follow:

1. Constructing a Reinforced Concrete Floating Bridge 1.341 miles in Length in Kitsap and Jefferson Counties, HOOD CANAL BRIDGE UNIT 1—FLOATING STRUCTURE, a State Project, involving about 74,597 cubic yards of Concrete, 12,586,000 pounds of Steel Reinforcing Bars, 3,000,280 linear feet of Prestressing Reinforcement, 14,060 linear feet of Reinforced Concrete Bridge Railing, 2,943,120 pounds of Structural Steel, 20,150 square feet of Steel Bridge Decking, 739,200 pounds of Cast Steel, 271,610 pounds of High Strength Bolts and Cast Steel Washers, 2,600 linear feet of Rubber Seals, 5,844 linear feet of Steel Pipe, 1,670 linear feet of Cement Asbestos Pipe, 3,316 linear feet of Aluminum Bridge Railing, 1,136 linear feet of Aluminum Curb, 321 MBM of Treated Timber and Lumber, 227,600 pounds of Machinery, a lump sum bid for Mechanical Equipment, a lump sum bid

for Electrical Equipment, a lump sum bid for Operator, Machinery and Generator Houses, 29,000 square yards of Water Proofing Pontoons, 2,450 linear feet of Steel Piling and other items.

2. Widening the Existing State Ferries M/V Illahee, M/V Klickitat, M/V Nisqually and M/V Quinault for the Washington Toll Bridge Authority, WIDENING FOUR STEEL ELECTRIC FERRIES, a State Project, involving a lump sum bid for the Entire Improvement. The work involved consists principally in sponsoning the hull, widening the auto deck and replacing the existing wood auto deck with a steel deck. Alternate bids are requested on replacing the existing life boats and davits with larger boats and mechanical davits, on raising the entire superstructure for increased vertical clearance on the auto deck and on replacing the existthe canvas deck covering on the exterior passenger decks.
3. Constructing Two Ferries 310 feet long for the Washington Toll Bridge Authority, TWO EVERGREEN STATE TYPE VESSELS, a State Project, involving a lump sum bid for the Entire Work. The work involved consists of building two ferry vessels of the Evergreen State Class utilizing owner furnished propulsion, generator sets, propulsion motor and engine room auxiliaries.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5944—9-14, 21, 28; 10-5

STREET PAVING

BIDS CLOSE 1 P.M., M.S.T., SEPTEMBER 30

Bozeman, Montana

NOTICE TO CONTRACTORS

The City of Bozeman, Montana, will receive sealed bids for construction of Street Improvements in Special Improvement Districts, 389, 390, 391, 393, 394, 395 and 398 and for construction of Drainage Improvements in Special Improvement District 392 until 1:00 o'clock P. M., Mountain Standard Time, at the office of the Clerk of the Commission on the 30th day of September, 1957, at which time and place all bids will be publicly opened and read aloud.

The Contract Documents, including plans and specifications, are on file at the office of the Clerk of the Commission at Bozeman, Montana, and at the office of Harold Hoskins & Associates, Engineers, 2314 River Drive, Great Falls, Montana, or at 725 9th Street, Greeley, Colorado.

Copies of the documents may be obtained by paying to Harold Hoskins & Associates $25.00 for one set and $10.00 for each additional set. One-half of said charges will be refunded for all complete sets returned in undamaged condition. The successful bidder will be furnished, free of charge, with all copies of the documents necessary for contract award and construction purposes.

Each bid shall be accompanied by a certified check drawn on a solvent bank in an amount not less than 10% of the total amount of the bid and shall be made payable to the Director of Finance of the City of Bozeman, as security that the bidder to whom the contract may be awarded will enter into a contract to build the improvement in accordance with this notice, and give bond in the sum as hereinafter provided for construction of the improvement. Checks accompanying bids not accepted shall be returned to the bidders.

No bid shall be withdrawn after opening the bids without the consent of the City of Bozeman, Montana, for a period of 30 days after the scheduled time of closing bids.

The City of Bozeman, Montana, reserves the right to reject any or all bids and to waive any informalities in bidding.

The successful bidder will be required to furnish a satisfactory performance bond in the sum of the full amount of the contract.

In general, the improvement on which bids are requested will require the following construction:

Paving Special Improvement District 389—7,050 Sq. Yd. of pavement and 1,376 L.F. of 10" P.C. pipe; Paving Special Improvement District 390—7,700 Sq. Yd. of pavement; Paving Special Improvement District 391—5,850 Sq. Yd. of pavement; Drainage Special Improvement District 392—11,550 L.F. 12"-36" R.C. pipe and appurtenances; Paving Special Improvement District 393—57,600 Sq. Yd. of pavement; Paving Special Improvement District 394—2,050 Sq. Yd. of pavement; Paving Special Improvement District 395—6,000 Sq. Yd. of pavement; Paving Special Improvement District 398—19,800 Sq. Yd. of pavement.

Sealed bids shall be marked on outside, "Bid for Construction of Street Improvements in Special Improvement District 389, 390, 391, 393, 394, 395, and 398" and/or "Bid for Construction of Drainage Improvements in Special Improvement District 392."

Dated this 11th day of September, 1957.

CITY OF BOZEMAN, MONTANA.
By: L. G. Shadoan,
Clerk of the Commission.

5945—9-14, 18

HEALTH CENTER

BIDS CLOSE 10 A.M., P.S.T., OCTOBER 2

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-270, Health Center, Kenai, Alaska. September 4, 1957. Kenai Health Center, Project Aaa. 50-A-270, Kenai, 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, October 2, 1957, 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-270, Health Center, Kenai, Alaska. The construction of a one story frame Health Center building with approximately 113 sq. ft. of floor area.

5941—9-14, 21

COLLEGE ADDITIONS

BIDS CLOSE 8 P.M., P.S.T., SEPTEMBER 25

Pasco, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of the Pasco School District #1, at the offices of the School District, 517 North 3rd St., Pasco, Washington, on or before 8:00 P.M., P.S.T., Wednesday, Sept. 25, '57 for the construction of Vocational-Technical, PE-Music; Classroom Center, and Boiler Plant Additions for Columbia Basin College of steel and block 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 offices of the Architect, Victor Louis Wulff, 1526 West Riverside Avenue, Spokane, Washington, and 507 North 4th, Pasco, 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 for the convenience of sub-contractors, etc.: Plan Survey Center, Inc., 15 S.E. 22nd Ave., Portland 15, Oregon. Tri-City Construction Council, 34 Vista Way, Kennewick, Wash. Construction Council, 933 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, Washington, Basin Construction Council, 515 W. Broadway, Moses Lake, Wash., Yakima Valley Master Builders, 702 W. Walnut St., Yakima, Wash., AGC Builders' Chapter, 452 St. Helen's 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 Pasco School District #1.

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 Pasco School District #1.
Noble Moodhe,
Secretary of the School Board
517 North 3rd
Pasco, Washington

5936—9-7, 10, 11

POWERPLANT, SWITCHYARD

BIDS CLOSE OCTOBER 8

Yakima, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4961) will be received at Kennewick, Washington, until October 8, 1957, for furnishing labor and materials for completion of Roza Powerplant and Switchyard, Yakima Project, Washington. Location near Yakima, Washington. Principal items are lump sum installing nonembedded turbine parts and testing one 18,000-hp hydraulic turbine; furnishing and installing heating and ventilating system in powerplant; 6,700 pounds furnishing and installing steel pipe, valves, and fittings; and other work. Completion time 200 days. For particular, address Bureau of Reclamation, P. O. Box 516, Kennewick, Washington; P. O. Box 937, Boise, Idaho; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5927—9-7

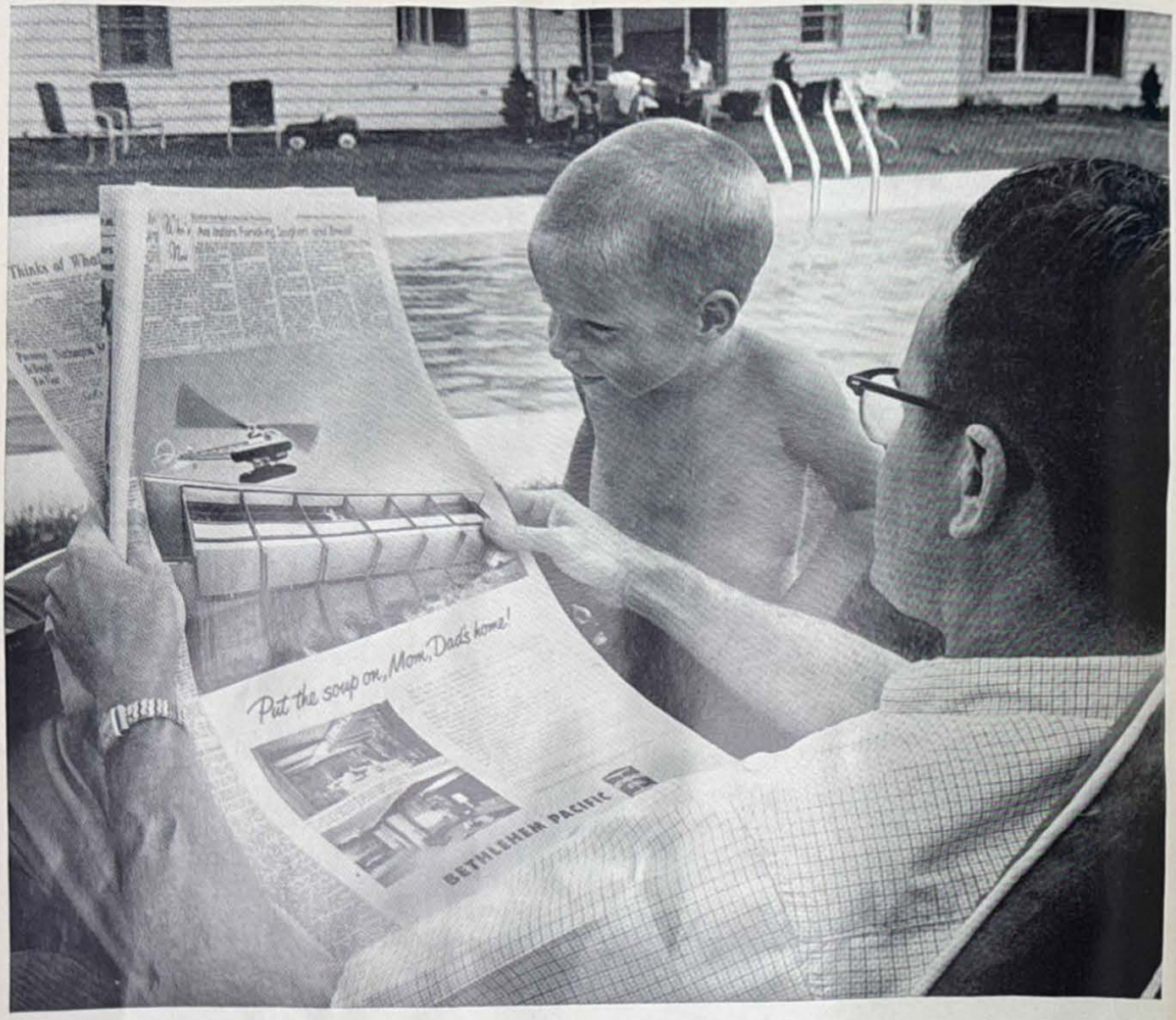
Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

School of Arch & Allied Arts
Librarian
University of Ore
Eugene Ore

California, Northwest AIA conventions
—two candid reports

NOVEMBER 1957



5,000,000 people saw this ad—did you?

Remember this advertisement? It appeared late in July in nineteen leading West Coast newspapers. We figure that at least 5,000,000 people saw it—and you can bet that many of them read it carefully.

Ads like this, published both by Bethlehem Pacific and others in the steel industry, are helping to build up a public awareness of the many advantages of steel construction for homes. Yes, and for commercial construction too.

The ad describes a most unusual house in Oakland, a steel-framed house that can actually land helicopters on its roof. The copy tells how quickly the steel frame was erected. It took a little less than two hours! What's more, with the house on a 45-deg hillside, the use of steel framing made foundation work a snap for the builder.

Finally the ad tells how steel-frame construction permits the use of curtain walls with huge glass areas; allows cantilever construction of deep overhanging roofs; is immune to rot, warping and termite damage; gives the designer free rein for his ideas, and permits such a simple framing system that the builder's problems are cut in half.

If you have been building with steel, this is really *your* ad, helping to sell your kind of construction. But if you haven't used steel a great deal in your projects, take a tip: the increasing use of structural steel, especially in homes and light commercial, industrial and institutional buildings, is one of the most significant trends in construction today.

BETHLEHEM PACIFIC COAST STEEL CORPORATION

Sales offices: Los Angeles, Phoenix, San Francisco, Portland, Seattle, Spokane

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Pacific Architect and Builder

VOLUME 63, NUMBER 11 NOVEMBER 1957

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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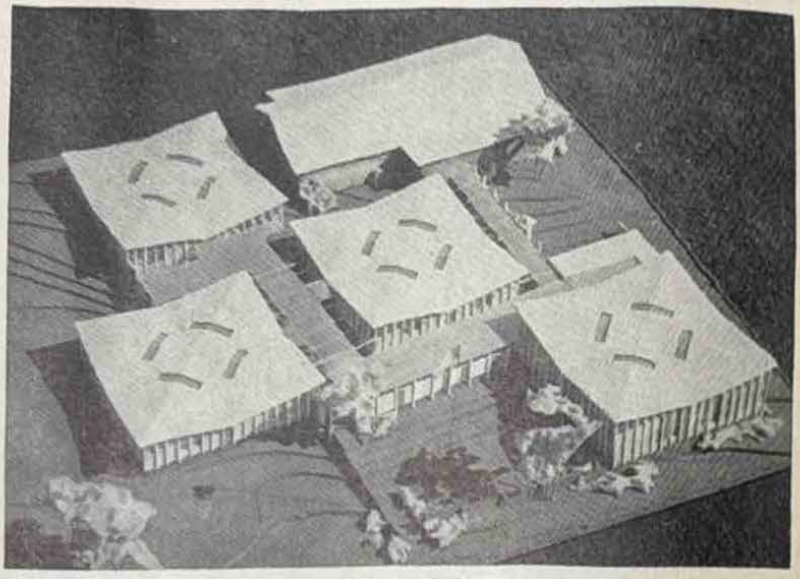


THE COVER

Woodrow Wilson High School, Portland (p. 16). Edmundson & Kochendoerfer, Architects; Art Hupy photo.



GLASS AND CONCRETE one-story building to house Parke-Davis Co. branch office and warehouse near San Francisco will rest 4 ft. above ground on cement podium about size of football field. Framework of roof will consist of precast concrete arcs—64 sections, each 20x40 ft.—held together with steel ties, supported by six interior columns and covered with white marble chips for waterproofing. Entire area around project will be landscaped to create parklike environment. Architect: Minoru Yamasaki.



PROJECT PREVIEW

NORTHEAST TACOMA ELEMENTARY SCHOOL ADDITION will be first in city to utilize campus plan. All four buildings will be identical in size and structure except that multipurpose unit will have higher ceiling. Folded plane roofs will be prefabricated plywood stressed skin units joined in self-spanning forms, supported only on perimeter wood columns, which also support prefabricated plywood wall panels. Architects: Johnston, Evans & Parker.



WITH LARGE SHEETS OF GLASS on street frontages, entire building will be showcase for interior display of J. W. Robinson in Palm Springs, Calif. Roof floating over column supports will act as umbrella for glass-enclosed sales area. Elevated light apertures inside will provide still more daylight and view of mountains to west. Architects-engineers: Pereira & Luckman.

MAIN LIBRARY BUILDING FOR SEATTLE, which caused front-page controversy over method of selecting architects, has been designed as reinforced concrete five-story structure with basement area for double tier bookstacks. Exterior will be faced with quartz aggregated panels supplemented with granite or marble. Plan calls for large area flowing together, such as found in department stores, rather than separate, high ceiling rooms for each department. Estimated cost: $3.5 million. Architects: Bindon & Wright, associated with Decker, Christenson & Kitchin.



Building volume continues to climb in October

Building activity in the five western states seems to be picking up steam once more. After a slight rise in September, the October dollar volume climbed upward even faster to a total of $213,967,583, highest since May. And for the second month in a row the dollar volume rose above the same period a year ago. October's was $9¾ million higher than the corresponding month of 1956.

The total also topped September by some $35 million. Gains were widespread throughout the five states.

Here is a state-by-state comparison for the first 10 months:

	Jan.-Oct. 1957	Jan.-Oct. 1956
California	$1,658,041,813	$1,763,320,048
Oregon	104,900,420	134,733,552
Washington	235,351,393	266,691,869
Montana	20,399,759	27,161,233
Idaho	21,951,439	21,703,516

The dollar volume for the year now stands at $2,213,-610,218, nearly $173 million lower than the January through October total for 1956. Only one state records an increase, Idaho, with a gain of $248,923 over 1956.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during October. (First number in each category refers to number of permits, not number of units.)

	DWELLING		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	70	$ 1,078,800	33	$1,837,140	5	$1,190,925
King Co.	470	4,931,580	48	1,008,895	11	829,200
Seattle	551	3,344,334	186	1,546,710	4	1,055,000
Tacoma	110	410,085	29	76,070	—	—
Los Angeles Co.	2424	17,683,111	408	3,299,598	28	613,400
Orange Co.	303	3,857,657	33	112,862	1	50,000
Sacramento Co.	588	4,750,966	66	3,782,277	5	2,724,137

Building Permit Totals for 116 Western Agencies for October 1957

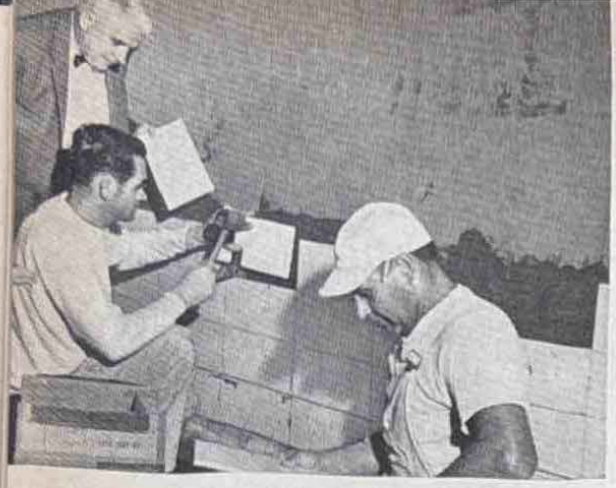
CALIFORNIA	Oct. 1957	Sept. 1957	Oct. 1956
Alameda County	$ 2,524,350	$ 2,045,700	$ 2,999,200
Anaheim	3,420,418	3,153,040	3,081,007
Bakersfield	621,874	518,689	418,524
Burbank	573,801	456,587	973,139
Contra Costa County	3,321,888	2,624,684	2,674,476
Fresno	637,319	378,279	1,175,649
Fullerton	539,755	1,215,964	1,165,477
Glendale	999,920	843,810	1,101,588
Inglewood	835,090	1,556,155	1,039,770
Long Beach	3,793,475	3,124,125	3,014,645
Los Angeles	41,758,091	39,475,272	37,433,124
Los Angeles County	22,241,614	18,476,672	30,236,940
Oakland	2,920,374	8,358,722	2,572,707
Ontario	2,102,202	687,383	864,182
Orange County	4,294,326	4,078,043	6,072,438
Palo Alto	2,498,783	2,045,986	1,814,483
Pasadena	2,271,110	1,159,412	1,069,156
Pomona	1,088,338	1,194,183	446,226
Richmond	2,147,552	225,424	1,091,697
Riverside	965,572	673,708	1,533,621
Sacramento	1,928,880	1,528,419	3,293,528
Sacramento County	11,378,324	3,813,199	3,907,248
San Bernardino	3,056,115	1,234,315	921,308
San Bernardino County	4,661,491	4,188,924	4,974,059
San Diego	15,993,738	7,222,031	18,801,760
San Diego County	5,269,700	5,354,700	4,136,250
San Francisco	3,223,787	6,868,739	3,916,641
San Jose	5,228,095	5,538,495	3,371,055
San Mateo	7,414,418	926,484	1,320,472
San Mateo County	855,116	2,536,200	1,988,649
Santa Ana	5,361,989	3,841,177	1,685,031
Santa Monica	1,432,574	1,522,286	2,211,453
Stockton	1,300,432	1,026,424	540,513
Sunnyvale	3,123,211	2,529,125	2,411,250
Torrance	1,444,083	1,632,495	3,361,068
West Covina	2,571,555	737,795	459,465
TOTAL	$173,799,360	$142,792,646	$158,077,799

OREGON	Oct. 1957	Sept. 1957	Oct. 1956
Albany	$ 443,250	$ 92,450	$ 231,980
Astoria	29,225	21,045	12,410
Baker	70,067	54,815	71,534
Bend	121,825	133,388	146,310
Coos Bay	76,460	50,815	77,051
Corvallis	175,210	100,185	239,975
Eugene	1,907,981	463,844	203,444
Grants Pass	43,325	72,950	83,760
Gresham	146,835	98,450	58,800
Hillsboro	240,790	100,244	63,079
Klamath Falls	147,657	191,661	203,616
LaGrande	1,375	962,450	166,242
Lane County	335,766	744,023	575,370
Medford	220,395	234,819	256,610
Multnomah County	1,121,815	2,291,670	1,931,640
North Bend	16,290	9,950	75,062
Oregon City	28,874	4,400	14,965
Pendleton	233,740	20,285	191,750
Portland	4,971,970	3,984,815	4,999,585
Roseburg	38,032	50,289	88,205
Salem	319,360	471,635	395,304
Springfield	10,100	155,810	170,625
The Dalles	19,800	93,258	192,638
TOTAL	$ 10,720,142	$ 10,403,251	$ 10,449,955

WASHINGTON	Oct. 1957	Sept. 1957	Oct. 1956
Aberdeen	$ 232,665	$ 110,879	$ 82,460
Anacortes	29,165	53,920	52,165
Auburn	149,800	75,000	126,190
Bellingham	187,283	172,203	409,084
Bremerton	36,380	65,155	76,720
Centralia	69,140	119,750	97,428
Chehalis	126,487	41,403	60,426
Clarkston	35,785	26,950	53,270
Ellensburg	27,557	70,265	37,286
Ephrata	72,254	18,106	46,213
Everett	148,272	209,947	289,095
Kelso	37,450	54,000	13,400
Kennewick	59,590	64,100	24,450
King County	6,802,605	4,664,340	3,552,620
Kirkland	51,340	78,615	101,400
Longview	168,227	275,042	443,895
Moses Lake	53,753	45,915	124,705
Olympia	601,691	73,837	682,271
Pasco	867,885	90,386	572,288
Pierce County	1,711,339	953,746	1,061,968
Port Angeles	14,950	87,250	21,650
Puyallup	81,219	96,825	87,050
Ritzville	1,000	6,850	1,725
Seattle	6,110,499	6,602,416	7,185,480
Shelton	12,300	96,800	24,825
Spokane	2,202,881	3,571,415	2,279,405
Spokane County	1,808,705	1,465,221	1,714,465
Sumner	127,350	37,000	17,575
Tacoma	911,849	1,504,064	1,210,475
Vancouver	428,804	389,306	336,198
Walla Walla	103,583	135,230	194,049
Wenatchee	189,418	415,145	88,465
Yakima	327,086	424,212	478,527
TOTAL	$ 23,788,312	$ 22,014,907	$ 21,547,223

MONTANA	Oct. 1957	Sept. 1957	Oct. 1956
Billings	$ 296,800	$ 375,400	$ 320,750
Bozeman	94,600	24,900	82,200
Butte	12,000	148,898	27,053
Glasgow	77,475	72,300	134,780
Glendive	108,500	67,500	121,200
Great Falls	583,828	577,039	512,998
Helena	346,407	151,542	395,169
Kalispell	109,720	94,303	93,500
Lewistown	72,600	8,000	48,500
Livingston	30,485	38,280	437,740
Miles City	68,851	22,795	66,871
Missoula	72,912	90,800	44,800
TOTAL	$ 1,874,178	$ 1,671,757	$ 2,285,361

IDAHO	Oct. 1957	Sept. 1957	Oct. 1956
Boise	$ 568,060	$ 340,361	$ 420,639
Caldwell	134,150	214,498	102,692
Coeur d'Alene	135,370	135,630	118,670
Idaho Falls	1,099,400	518,822	488,200
Jerome	42,265	27,375	7,300
Lewiston	87,580	94,065	124,193
Nampa	78,837	81,110	138,195
Payette	1,740	54,300	11,275
Pocatello	1,422,439	367,742	187,551
Sandpoint	32,200	14,925	3,900
St. Maries	4,500	49,900	1,000
Twin Falls	179,050	182,600	218,475
TOTAL	$ 3,785,591	$ 2,081,328	$ 1,822,090
GRAND TOTAL	$213,967,583	$178,963,889	$194,182,428



The Architect: "Because breadth of selection is so vital to my work, I've come to rely more and more on GMcB. I like to be sure I can get the colors, shapes, sizes and textures in tile that make the job right. Too, I like the way GMcB field men are constantly checking with architects for new ideas. HERMOSA TILE has long been the answer for me."

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The Tile Contractor: "Because success in my business depends on the final quality of installations, I like to begin with a product that I KNOW is superior... HERMOSA TILE. And the company that pays extra close attention to the needs of the contractors. By checking with qualified men right in the field, GMcB is able to produce tile superior in every detail."





The Color Coordinator: "Because so much of my effort is concerned with design and color harmony, I like to work with manufacturers who want to HEAR recommendations and then ACT on them to produce a *complete* product line. GMcB has done this with HERMOSA TILE. When I need a custom design, I KNOW GMcB has a world of experience and can produce quickly with control and imagination."

The Builder: "A 'sold' sign is just the beginning for the owners. What really sells a house is the living in it. That's why I demand lasting quality in whatever material goes into my houses. GMcB men go out of their way to check with builders on points of quality. That's why builders can rely on HERMOSA TILE... and reliability is always the vital ingredient... particularly, when you're 'building tight'."



Back of every reason for more architects, tile contractors, color coordinators and builders choosing HERMOSA TILE is Gladding, McBean's *extra* commodity: SERVICE EXPERIENCE. Teamwork in service is the GMcB trademark. Hundreds of jobs each year are handled by the typical team illustrated below. GMcB men and women carefully consider the needs, wants and requirements of all who use tile. As a result, HERMOSA TILE achieves vibrant growth from vast experience with each of these varied groups.

the HERMOSA *reputation*

No wonder HERMOSA is the West's largest selling tile!

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EARL HEITSCHMIDT
Los Angeles

"for outstanding service to the community, to the state and to the architects of California during his vice presidency of the AIA in 1954-55."



DONALD KIRBY
San Francisco

"for his leadership and outstanding service to the architects of California as regional director of the AIA from 1954-57."



JOHN LYON REID
San Francisco

"who served the architectural profession with distinction as 1956 California Council president."

California, Northwest hold lively

At Coronado: planning and structure

Coronado proved to be a gracious host during the 12th annual convention of the California Council, AIA, October 2-5, and since lack of satisfactory accomodations elsewhere necessitates returning in 1958, this year's participants can find consolation in the fact that the island is such a delightful spot.

A record attendance of nearly 900, which included about 250 architects, heard a program divided into two main topics, "Community Planning" and "Design Through Structure"; toured the Producers' Council exhibits, and in general had a good time. The Californians seem to be developing a more substantial program, but in evaluating their annual meeting it must be noted that they purposely place greater emphasis on the social aspects than do some of the other AIA groups. Looking at the 1957 convention from that point of view, it must be considered a success.

William T. Sesnon, oil company executive and chairman of the Los Angeles Community Redevelopment Agency since its establishment in 1948, set the stage for discussions covering the increasing problems facing California cities and towns and the architect's role in helping to solve them. Using the $40 million Bunker Hill project as the basis for his talk, he explained that such a program has three phases—conservation, rehabilitation and redevelopment.

Such projects are slow in developing, Sesnon explained, pointing out that the Bunker Hill idea actually goes back to 1923. He emphasized that architects should be prime movers in such programs, but cited a lack of interest in the profession.

Dean Arthur B. Gallion of the School of Architecture at the University of Southern California did a top-notch job in moderating the seminar that followed. Panelists were Henry A. Babcock, Los Angeles consulting engineer; Charles B. Bennett, former director of planning for the cities of Milwaukee and Los Angeles and now a private consultant; John Cotton, San Diego realtor; and Lawrence Halprin, San Francisco landscape architect.

Some of the random comments: Natural laws must operate in community planning . . . Public housing creates second-rate citizens . . . Planning must be human in scale . . . Los Angeles is too far beyond the human scale . . . You can't design a community on a drawing board; it must be cultivated and nurtured . . . Zoning confirms natural trends . . . Our suburbs are sterile and need variation.

Keynoting the "Design Through Structure" portion of the program was R. Buckminster Fuller, designer and inventor of such structural innovations as the geodesic dome. Always a provocative speaker, he used slides to show the development of a wide range of his ideas. He predicted that structures of the future will be so light they will be transported by aircraft anywhere in the world.

"Contemporary Engineering Aids to Design" was another interesting seminar, with one speaker stating that the Fuller dome is not architectural at all. Architect Gardner A. Dailey of San Francisco found himself busy keeping his panelists in line: architect-contractor Felix Candela of Mexico City and Los Angeles engineers Edgardo Contini and Richard Bradshaw.

Some of their opinions: Marriage of the architect and engineer is not advantageous . . . Structural form alone is not an architectural expression . . . Our structural forms are obstacles to present-day design . . . There should be more emphasis on design and less on trickery . . . Design is a compromise of existing conditions . . . There is very little texture, art, shadow and subtle color in today's architecture . . . Architecture will become less and less individual buildings and more and more total spaces . . . An attempt to be original in architecture is dangerous.

One of the fine presentations during the Coronado meeting was an AIA research committee panel devoted to the aesthetic side of curtain walls, which unfortunately was missed by some prospective listeners because it overlapped with another session. Participating were three architects—moderator Anthony Thormin and George Vernon Russell, both of Los Angeles, and Melvin Frank of Columbus, Ohio—and four Producers' Council representatives—E. J. Lawson of Aluminum Company of America, Albert E. Barnes of Gladding, McBean & Co., Ralph Lane of Pittsburgh Plate Glass Co. and Morris Hales of Ceco Steel Products Corp.

Wallace Bonsall of Pasadena was convention chairman.

Continued on p. 34

AIA conventions at beach resorts

by ROBERT E. KOEHLER, Editor



Photo-Art Studios

At Gearhart: probing self-analysis

Little wonder if the architects who attended the sixth annual conference of the Northwest Region, AIA, at Gearheart shun the psychiatrist's couch for quite a spell. During their stay on the Oregon coast October 17-20 they underwent a collective self-analysis, ably led by San Francisco architect Henry Hill, who was assisted by several colleagues.

The Northwest traditionally comes up with a stimulating program and the more than 300 registrants—about half of them architects—from Oregon, Washington, Idaho and Montana found that 1957 followed the rule. And as is their custom, for the most part they faithfully patronized the sessions, foregoing the perfect weather and the lure of the beach and the green.

The Northwest makes the most of its guest speakers and called on the principal ones in addition to Hill—architect Francis Joseph McCarthy of San Francisco, Dean Jose Luis Sert of Harvard's Graduate School of Design, and New York editors Thomas H. Creighton of Progressive Architecture and John Knox Shear of Architectural Record—to appear on more than one occasion. Thus, although there were several separate seminars, subject matter tended to overlap, giving an unusual degree of continuity to the conference theme, "Expanding the Profession of Architecture."

The writer who attempts to convey the spirit of any Northwest meeting, and Gearhart in particular, is really put to task, for so much of the interplay between speakers and audience defies a reportorial approach. The architects in this region have always kept their conference in proper perspective, devoting a good share of time to the truly significant aspects of architecture, keeping social affairs within reason and getting official business done in generally concise, well-organized sessions. Not that they are bashful about speaking their mind where the institute is concerned—far from it; and this year was no exception despite two representatives from Washington, D. C.: national president Leon Chatelain and Edwin B. Morris Jr., assistant to the executive director.

"Expansion of the profession is expansion of the individual," declared Hill, who made the greatest impact at Gearhart. Maintaining that the practice of architecture in America is mediocre, he stressed the need to reappraise one's self and his responsibilities, the need to build up individual integrity and conviction. "The architect is a man consumed by his own subject," he said. "You practice architecture because you MUST!"

Hill asked his fellow architects what they had done to gain public respect. "If we become engulfed in mediocrity, then we perform no service to the public." He emphasized that architects must establish goals rather than follow and deplored the small Lever Houses and Secretariats which are springing up all over the nation.

Sert, who is mainly concerned about the shape of our cities in years to come, said that the architect is in a transitional period: he talks about being a leader, but sits back and does nothing. The Harvard dean added that the attitude of the profession has become "incestuous."

People get better schools, hospitals, shopping centers and roads because they ask for them; but they don't ask for better cities because they don't know what to ask for, Sert pointed out.

Creighton, whose delightfully funny introduction to his banquet address had the diners rolling in the aisles, listed five basic points of criticism, but went on to offer this defense on behalf of the architects:

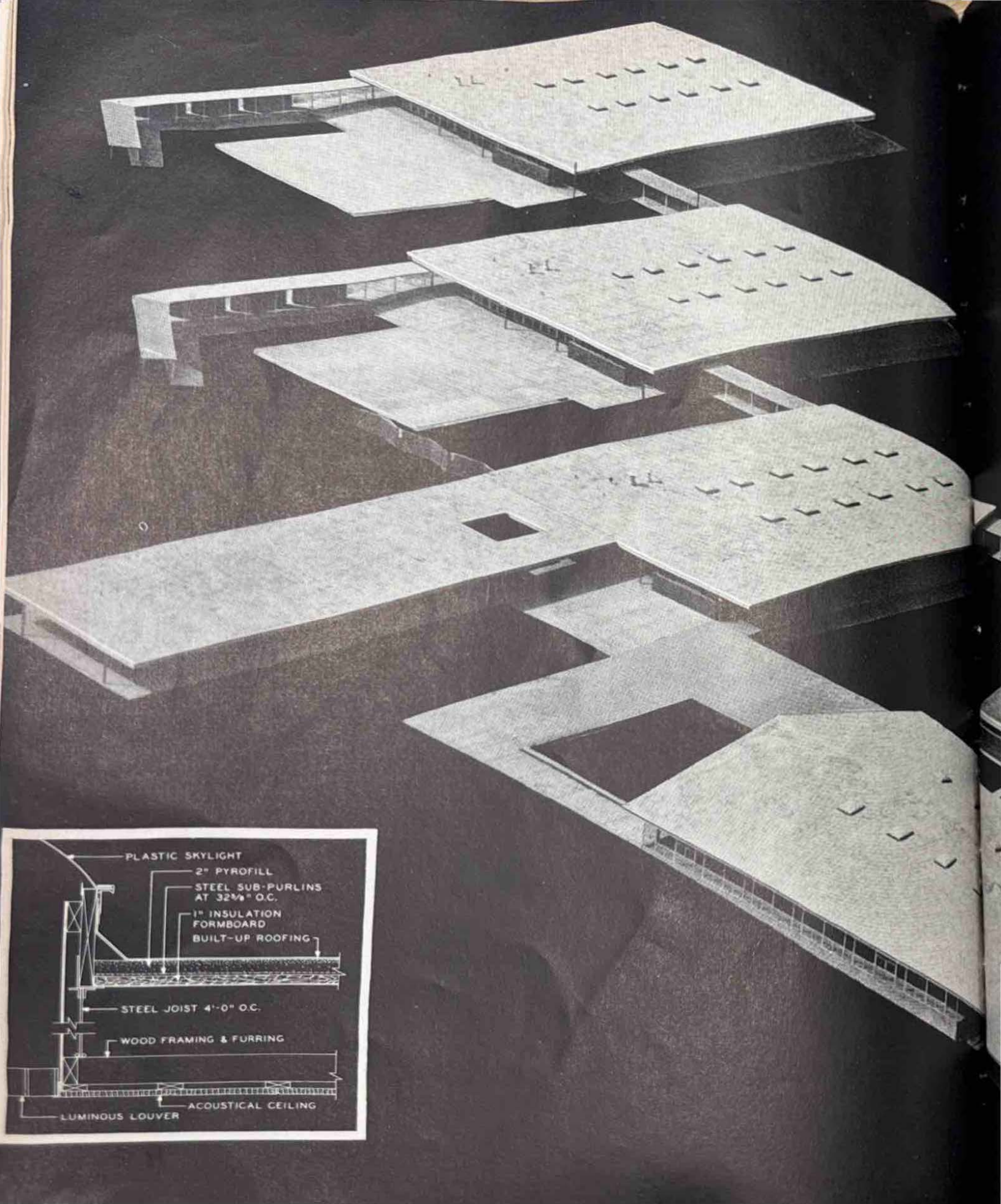
1. In a business sense, while a cer-

Continued on p. 34

GEARHART'S DELIGHTFUL WEATHER allows seminar on "Community Rehabilitation and Planning" to move out to patio. Seated around tables are architect Henry Hill of San Francisco, editor Thomas H. Creighton of Progressive Architecture, Dean Jose Luis Sert of Harvard University's Graduate School of Design, architect John E. Toohey (moderator) of Billings, editor John Knox Shear of Architectural Record and architect Francis Joseph McCarthy of San Francisco.

Carl Robertson photos




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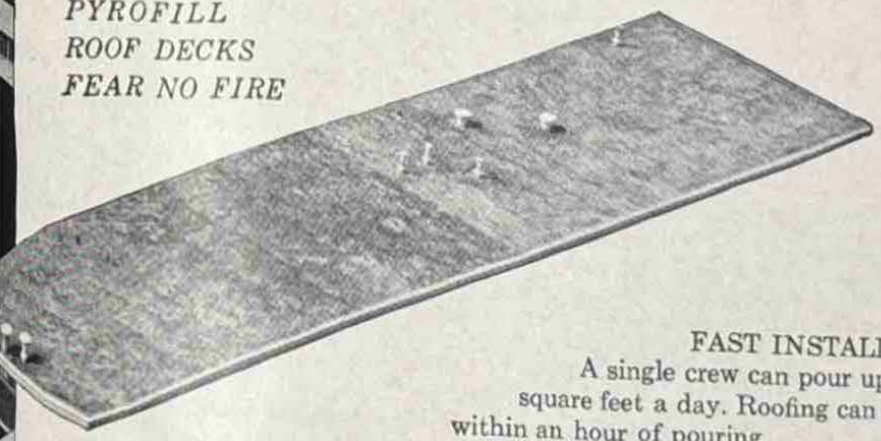
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PYROFILL ROOF DECKS FEAR NO FIRE



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EXTERIOR INCORPORATES exposed steel pointed block (modified by small additions of yellow and orange); quartz panels finished in white cement; Norman red brick; amber cathedral glass in panes below ventilating sash.

Simple plan has space for offices, book store

Washington Conference of Seventh-day Adventists Office Building, Seattle, Washington

HOUSING the church organization's departmental offices and literature distribution center for western Washington, this two-story structure with partial daylight basement is marked by simplicity of plan and consistent detailing. It is sited on a corner lot which slopes in both directions, the parking and loading areas having access from two streets.

Just inside the main entrance is a centrally located reception lobby which controls circulation to all points of the building. This floor provides for executive and bookkeeping offices and the Book and Bible Store, which is entered from another street. The latter is treated as a separate department with a different address and keying, but a glass door connects its display room with the main entrance.

The second floor houses departmental offices, a large workroom and toilets. Offices are arranged in suites of two interconnecting rooms, accommodating a departmental head and his secretary. Each secretary's office has cabinetwork of ribbon grained Philippine mahogany on two walls, designed to hold such items as film strips, books, files, stationery and other everyday supplies, coat and hat—all concealed behind flush doors so that the room can always appear orderly. The workroom takes care of bulk storage, mimeographing and mailing.

The lower floor has a number of spacious storage rooms protected by a sprinkler system; an assembly room for meetings and social gatherings, served by a pass-through kitchen with stainless steel counters, built-in appliances and red birch cabinetwork; women's lounge, toilets and utilities.

ROBERT J. BURMAN, AIA
Architect

DONALD G. RADCLIFFE
Structural Engineer

JAMES B. NOTKIN
Mechanical Engineer

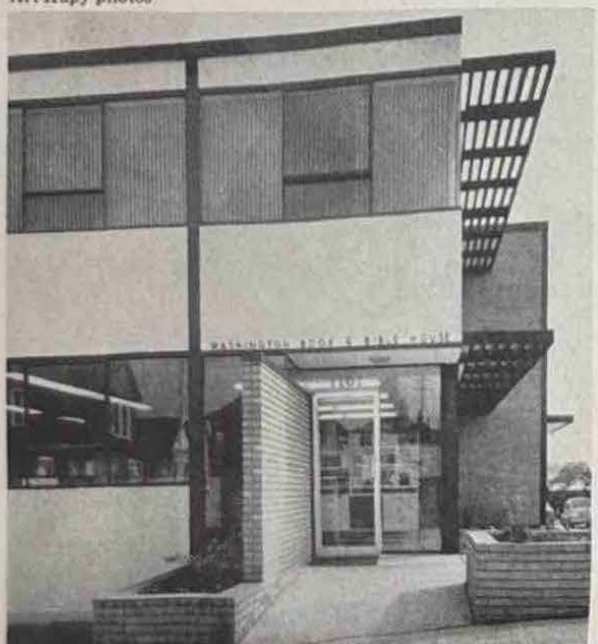
HOWARD E. SCHROEDEL
Electrical Engineer

GLEN HUNT
Landscape Architect

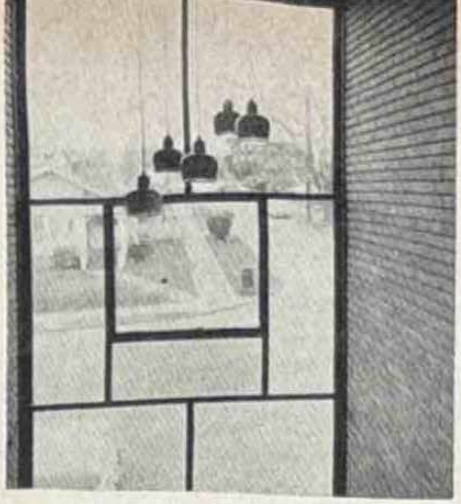
BAUGH CONSTRUCTION CO.
General Contractor

BOOK AND BIBLE STORE has separate entrance, but is connected to office portion by glass doorway. Display room is highlighted by select white birch cabinetwork. Sage green vinyl asbestos on floor is used throughout.

Art Hupy photos

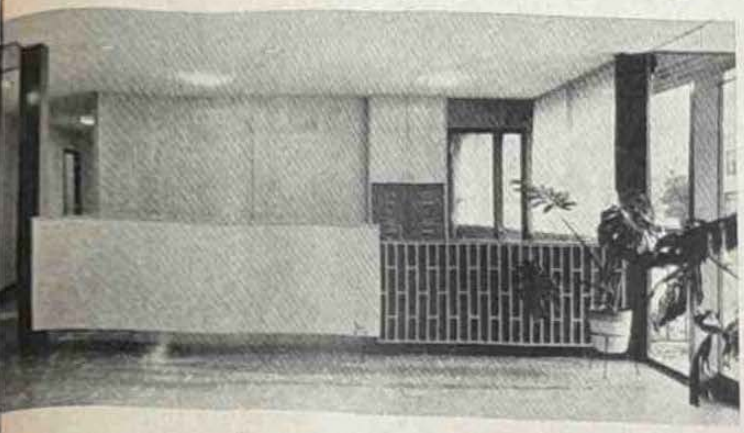








SECOND-FLOOR LOBBY OVERLOOKS open, vinyl covered steel stairs. Light fixture by Irene McGowan picks up colors used throughout interior and exterior—black, mandarin, yellow, turquoise, sage green, pumpkin. Window sections carry out overall design of structure. Reception desk is of select white birch; grille hides heating unit.



OUTLINE SPECIFICATIONS

Structure: Steel frame—Pointer-Willamette Co.; precast lightweight channel slab floors and roof—Olympian Stone Co.

Exterior Finish: Norman brick—Builders Brick Co.; quartz panels finished in white cement (Mo-Sai)—Olympian Stone Co.

Doors: Entrance: free standing aluminum—Kawneer Co.; interior: wood—Elmer Moody Co.; hollow metal—Aetna Steel Products Corp.

Windows: Steel—Fentron Industries, Inc.

Interior Walls and Partitions: 2-in. solid plaster—U. S. Gypsum Co.; Norman brick—Builders Brick Co.

Ceilings: Plaster—U. S. Gypsum Co.; acoustical—Simpson Logging Co.

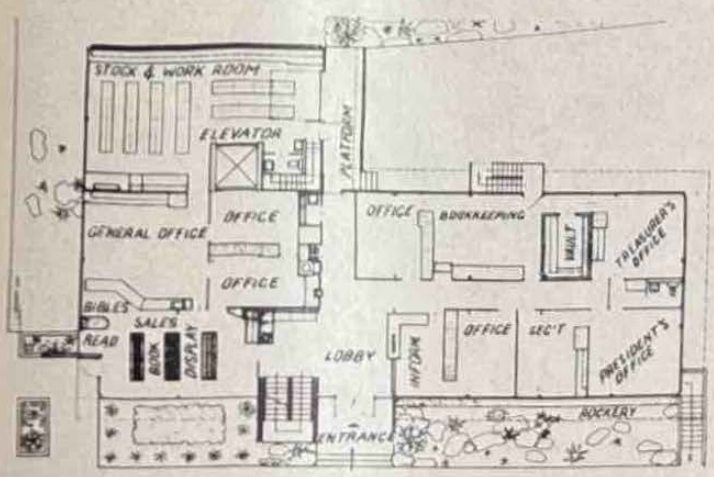
Cabinetwork: Philippine mahogany, red birch, select white birch—Elmer Moody Co.

Freight Elevator: Self-supporting electric—Otis Elevator Co.

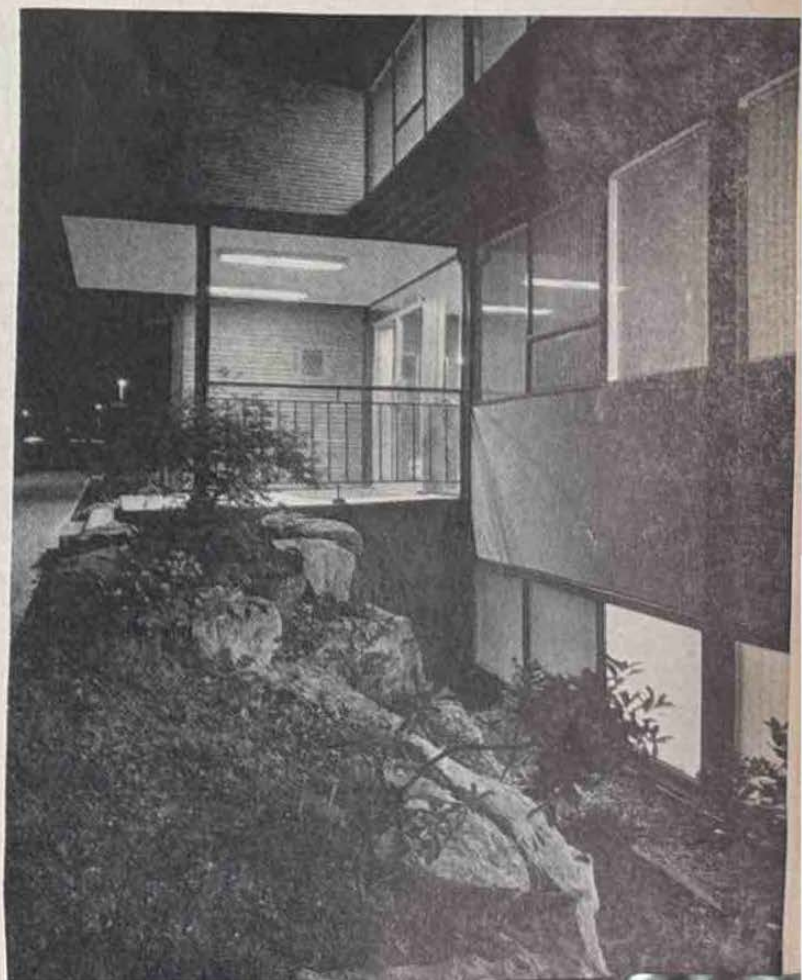
Total Cost: $214,578 (excluding fees and land cost).

Total Area: 13,600 sq. ft. (excluding loading platform and covered entrance).

Date of Completion: September 1956.



ROCKERY TO RIGHT OF MAIN ENTRANCE features Japanese cutleaf maple, natural mountain rock outcroppings. Storage rooms in basement are placed on high grade corner of building so that other habitable spaces receive natural light without use of areaways.





Religious plant can grow with parish

THE PLAN of this religious plant is truly geared to an expanding parish which has trebled in size within the last three years. Completed thus far are the church building itself, administrative offices and six Sunday school classrooms.

Most notable feature of the church is a free-standing altar table at the center of the cruciform structure, enabling more than 500 persons to be seated with 90 ft. of the altar rail and pulpit. Since it is on a rotating base, the altar can face either the chapel (144 seats) or the nave (364 seats); thus with one central altar the congregation can have a more intimate place of worship or can accommodate larger numbers for special religious festivals. And if still more seating is required, the classroom area can be opened up to become part of the church.

Future plans call for a parish hall auditorium with a 20-classroom basement, to be connected to the church building by another classroom wing and a foyer area, all around a central court. The auditorium can serve as a Sunday school chapel, as a meeting place for clubs, for parish dinners and dances and, with stage and equipment, for drama groups. The foyer too can function as a multipurpose unit: as a display area for books and pamphlets, for additional classrooms when needed or for overflow church crowds.

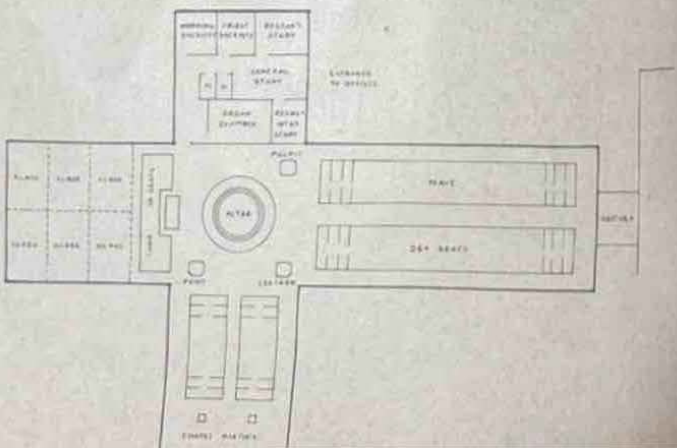
St. Mark's Episcopal Church
Van Nuys, California

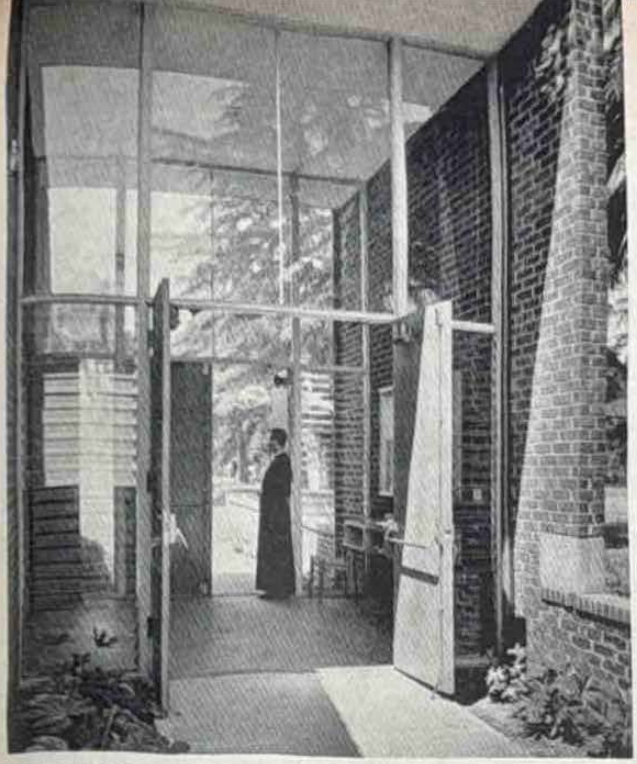
CARLETON MONROE WINSLOW, AIA, Architect

EUGENE BIRNBAUM, Structural Engineer

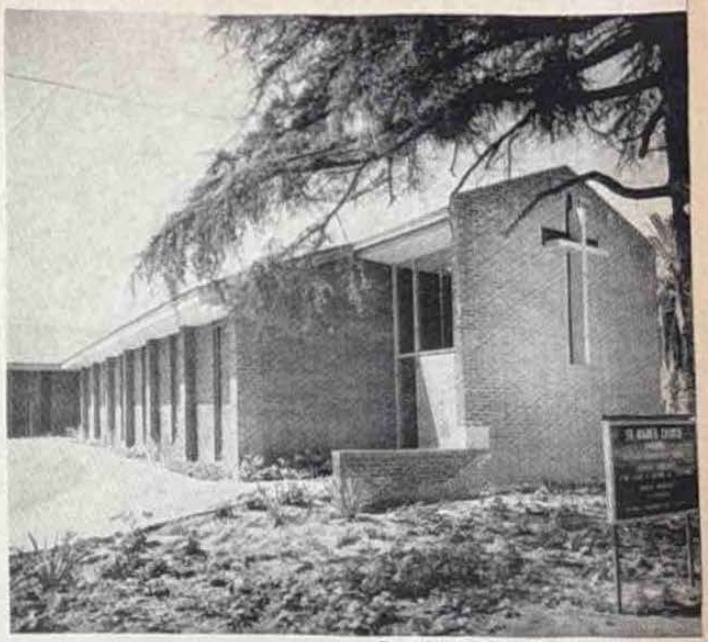
RICHARD MUHLEMAN, Electrical Engineer

CHARLES MILLER, General Contractor

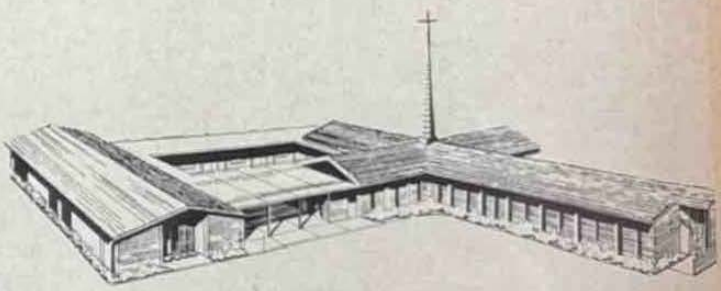




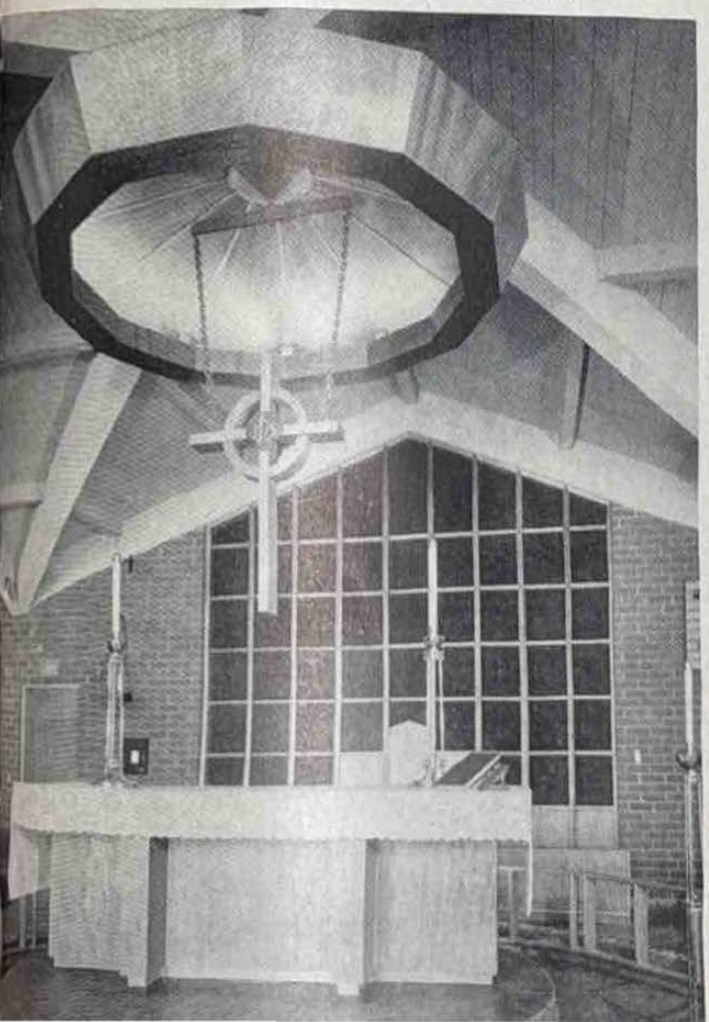
CHURCH PROPER WILL BE CONNECTED to future parish hall auditorium by means of another classroom wing and foyer area around central court, as shown in sketch.



Douglas Simmonds photos



ALTAR TABLE ON ROTATING BASE can serve either chapel (on opposite page) or nave, is completely surrounded by communion rail.



OUTLINE SPECIFICATIONS

Structure: Steel apex with structural brick columns.

Exterior Walls: Natural brick.

Roof: Steel bent system.

Windows: Beaded glass, clear and fixed louver sliding.

Doors: Mahogany.

Floors: Concrete, wood.

Interior Finish: Natural brick.

Ceilings: Wood, acoustical tile in offices, classrooms.

Heating: Forced air radiant.

Total Area: 13,035 sq. ft.

Total Cost: $137,549.

Cost per Square Foot: $10.55.

Date of Completion: September 1955.

Woodrow Wilson High School
Portland, Oregon

EDMUNDSON & KOCHENDOERFER, Architects

R. EVAN KENNEDY, Structural Engineer

THOMAS E. TAYLOR, Mechanical Engineer

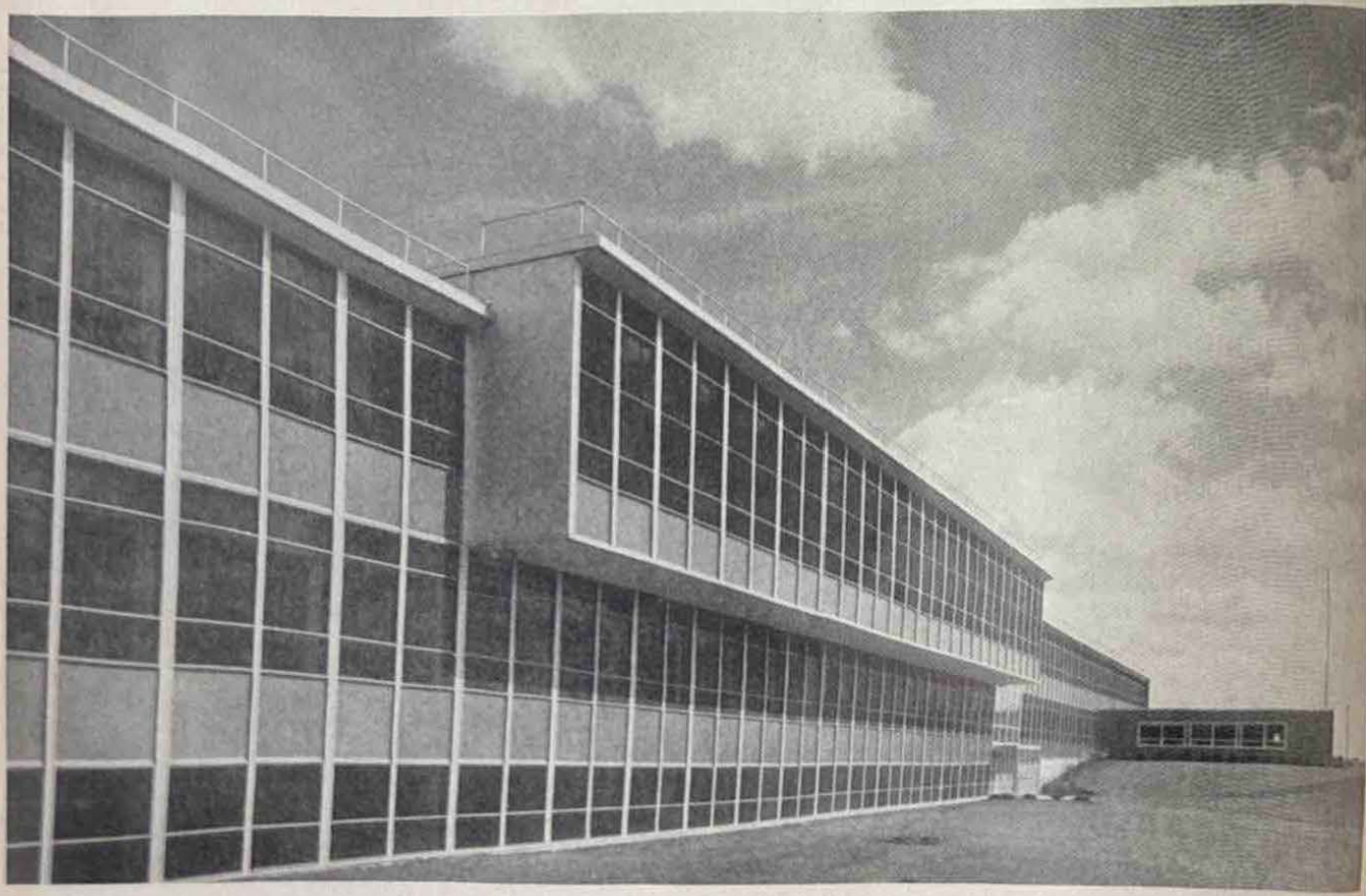
MATSON & KLAWA, Electrical Engineers

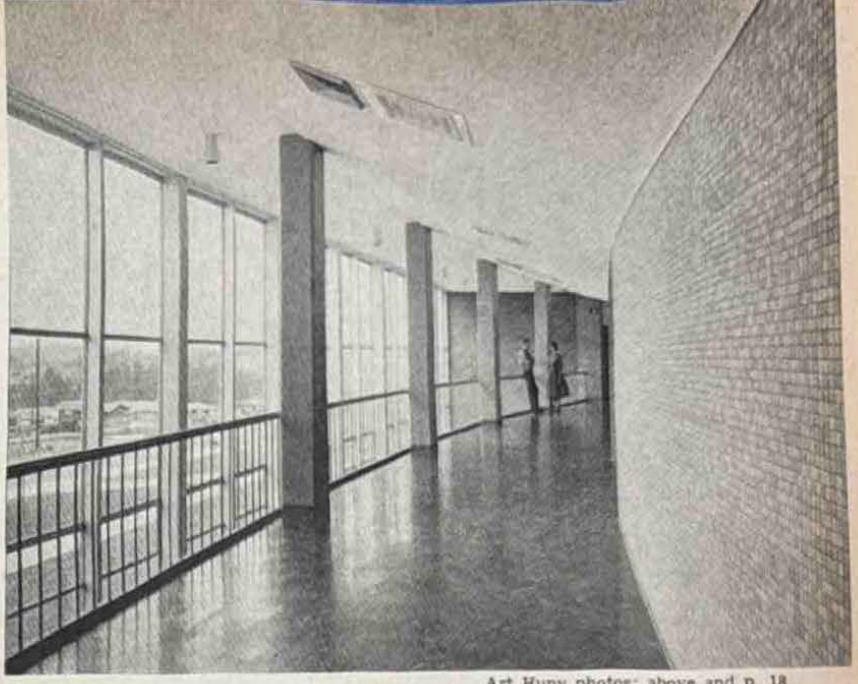
HOFFMAN CONSTRUCTION CO., General Contractor

CURTAIN WALL EXTERIOR AND NON-BEARING PARTITIONS exploit flexibility of lift slab construction (Youtz Slick method used by Northwest Lift Slab Corp.) Exterior walls are of aluminum sash set in extruded mullions, with porcelain enamel panels backed up with detached insulating panel. Considerable use is made of brick inside and out.

Donald Edmundson photo







CURVED WALL forming back of auditorium is finished with random pattern mosaic tile and furnishes serviceable yet natural appearing area for display of student art work.

Portland's first lift slab school

Art Hupy photos: above and p. 18

LIFT SLAB, which has been used rather extensively in California and to some extent in the Northwest, is relatively new in the Portland area. Thus when this high school was designed to utilize this type of construction, it caused considerable interest from the start.

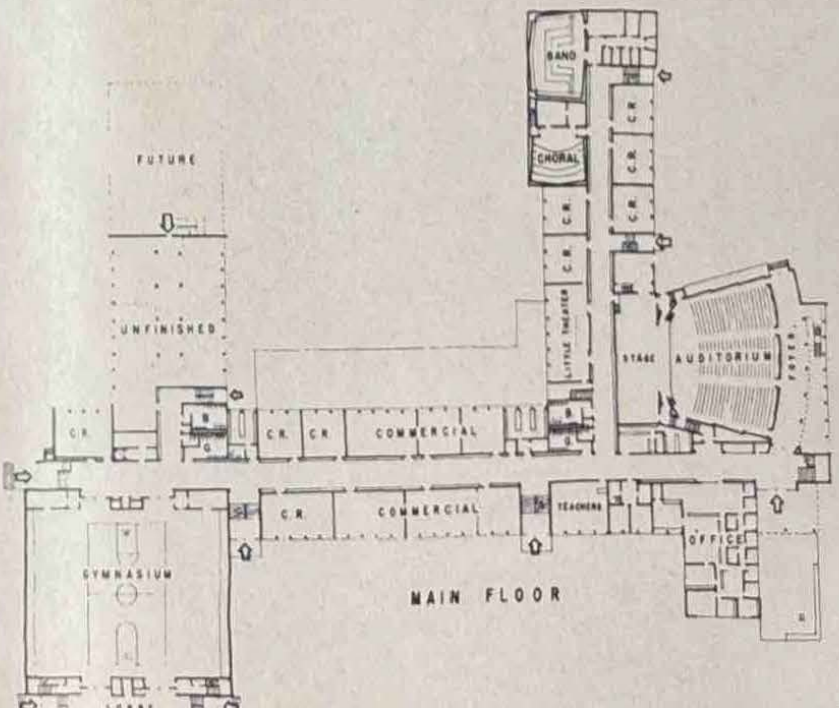
Reduced to its most elementary form, lift slab may be described as a system whereby the ground floor slab is poured, columns set in place and subsequent slabs poured directly on top of one another. Hydraulic jacks are then placed on top of the columns; lifting rods extended down and fastened to castings around the columns; and the slabs one at a time lifted to their final place and welded to the columns.

The building was sited on a 36-acre tract in the southwest portion of the city, draped over the top of a hill, with a 100-ft. difference in elevation. The school is located at the crest of the hill, commanding a view of Mount Hood and the Cascade Mountains to the east and of the Tualatin and rolling hills to the west. Athletic fields are found on terraces stepped into the long slope to the west side of the main structure. A lighted parking area for 480 cars is arranged around the building. A future elementary school is proposed in an area reserved on the lower terrace at the west, reducing the high school site to about 26 acres.

The school was planned for an eventual capacity of 2,400 students. However, the original construction eliminated one wing and left seven classrooms unfinished in part of the building to reduce the immediate capacity to 1,600. Heating plant, cafeteria, music department, etc., are designed for the eventual student development.

To minimize distances between classes inherent in a school of this size, the plan was consciously made as compact as possible. This was further necessitated by the relatively limited space available after necessary allocations for athletics and similar activities had been made. The classroom section is mostly three stories with double-loaded corridors. The majority of academic rooms are on upper floors, with shops, cafeteria, dressing rooms, etc., on the ground floor. Auditorium, gymnasium and cafeteria are arranged to be readily available for public use and accordingly are at widely separated locations. Entrances are made obvious by the design.

Total cost of the project is $3,731,000. Plans are now out to provide for completion of the seven classrooms and when the additional wing is added, the total cost will be $4 million.



Woodrow Wilson High School
Portland, Oregon

EDMUNDSON & KOCHENDOERFER, Architects

R. EVAN KENNEDY, Structural Engineer

THOMAS E. TAYLOR, Mechanical Engineer

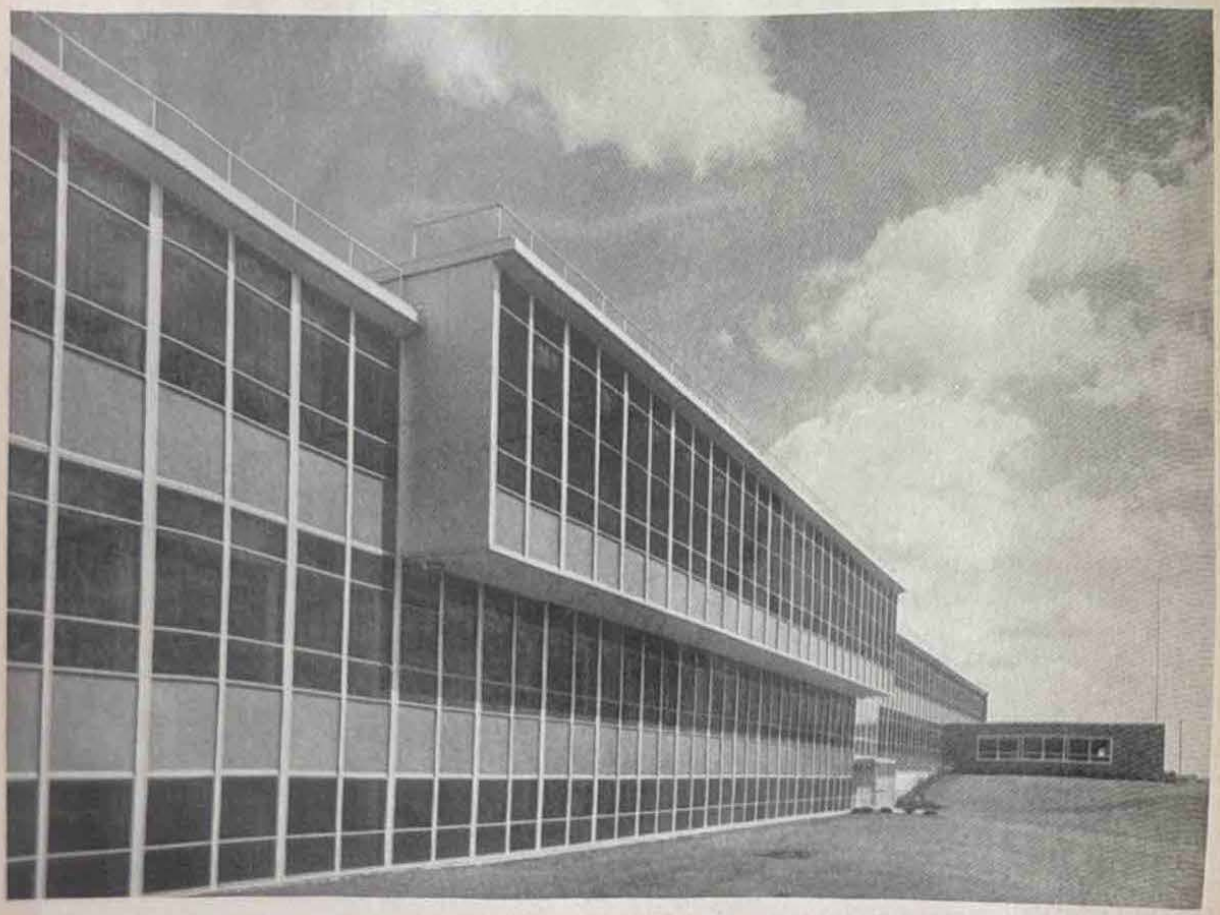
MATSON & KLAWA, Electrical Engineers

HOFFMAN CONSTRUCTION CO., General Contractor

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Donald Edmundson photos







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LIFT SLAB, which has been used rather extensively in California and to some extent in the Northwest, is relatively new in the Portland area. Thus when this high school was designed to utilize this type of construction, it caused considerable interest from the start.

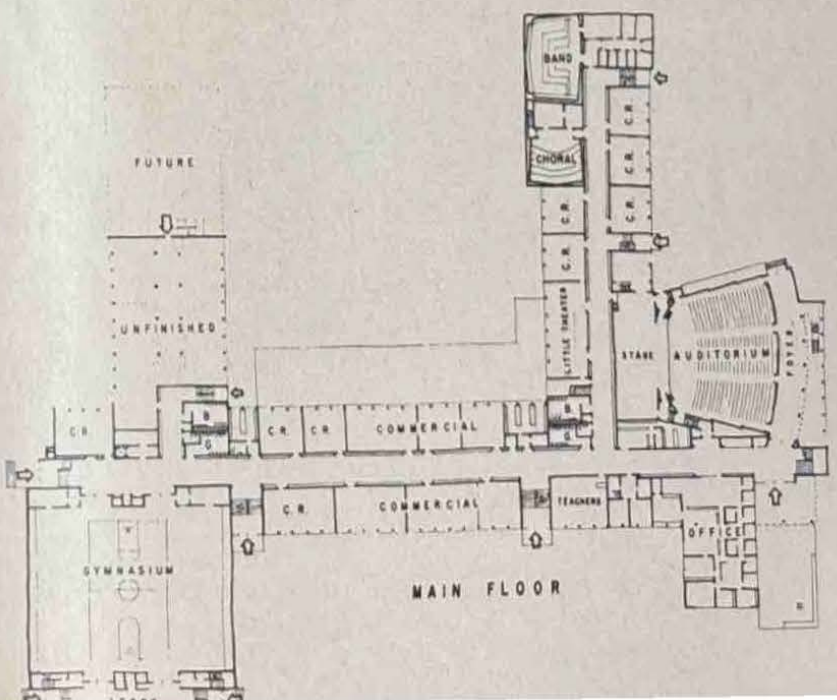
Reduced to its most elementary form, lift slab may be described as a system whereby the ground floor slab is poured, columns set in place and subsequent slabs poured directly on top of one another. Hydraulic jacks are then placed on top of the columns; lifting rods extended down and fastened to castings around the columns; and the slabs one at a time lifted to their final place and welded to the columns.

The building was sited on a 36-acre tract in the southwest portion of the city, draped over the top of a hill, with a 100-ft. difference in elevation. The school is located at the crest of the hill, commanding a view of Mount Hood and the Cascade Mountains to the east and of the Tualatin and rolling hills to the west. Athletic fields are found on terraces stepped into the long slope to the west side of the main structure. A lighted parking area for 480 cars is arranged around the building. A future elementary school is proposed in an area reserved on the lower terrace at the west, reducing the high school site to about 26 acres.

The school was planned for an eventual capacity of 2,400 students. However, the original construction eliminated one wing and left seven classrooms unfinished in part of the building to reduce the immediate capacity to 1,600. Heating plant, cafeteria, music department, etc., are designed for the eventual student development.

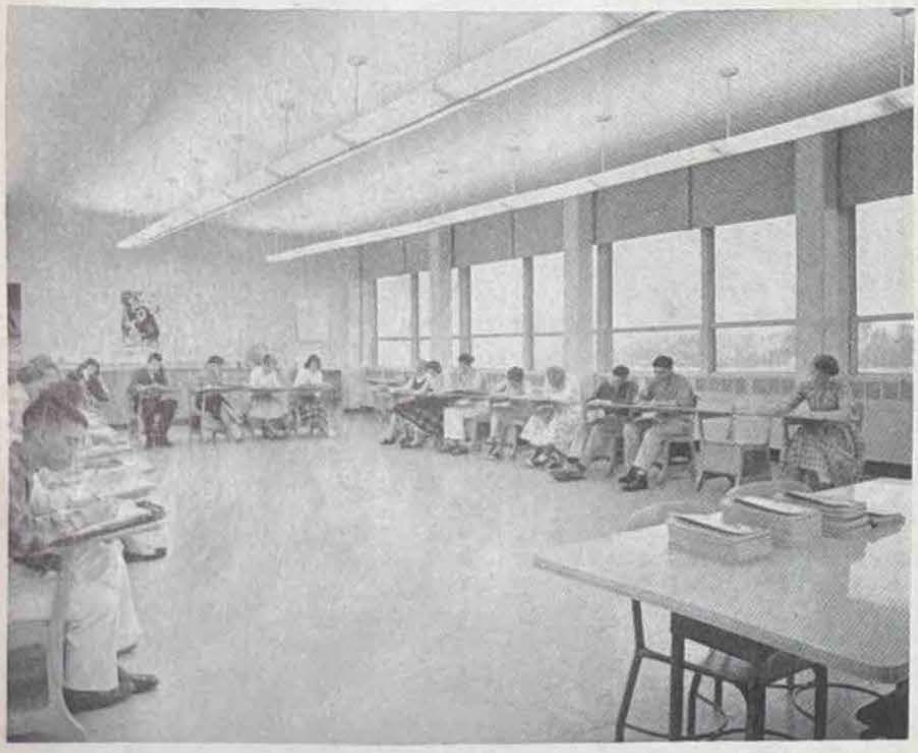
To minimize distances between classes inherent in a school of this size, the plan was consciously made as compact as possible. This was further necessitated by the relatively limited space available after necessary allocations for athletics and similar activities had been made. The classroom section is mostly three stories with double-loaded corridors. The majority of academic rooms are on upper floors, with shops, cafeteria, dressing rooms, etc., on the ground floor. Auditorium, gymnasium and cafeteria are arranged to be readily available for public use and accordingly are at widely separated locations. Entrances are made obvious by the design.

Total cost of the project is $3,731,000. Plans are now out to provide for completion of the seven classrooms and when the additional wing is added, the total cost will be $4 million.





AUDITORIUM, with 1,372-seating capacity, has all facilities of professional theater. By planning room as broad and short as possible, distance between auditors and stage is kept to minimum. Ceiling is composed of alternate acoustical and hard panels, breaking up sound and giving appearance of hanging panels in gently curved surface. Stage has 40-ft. wide proscenium which, with stage lip, is formed of structural steel sheets to reduce battering so often heard in exposed corners of high school auditoriums.



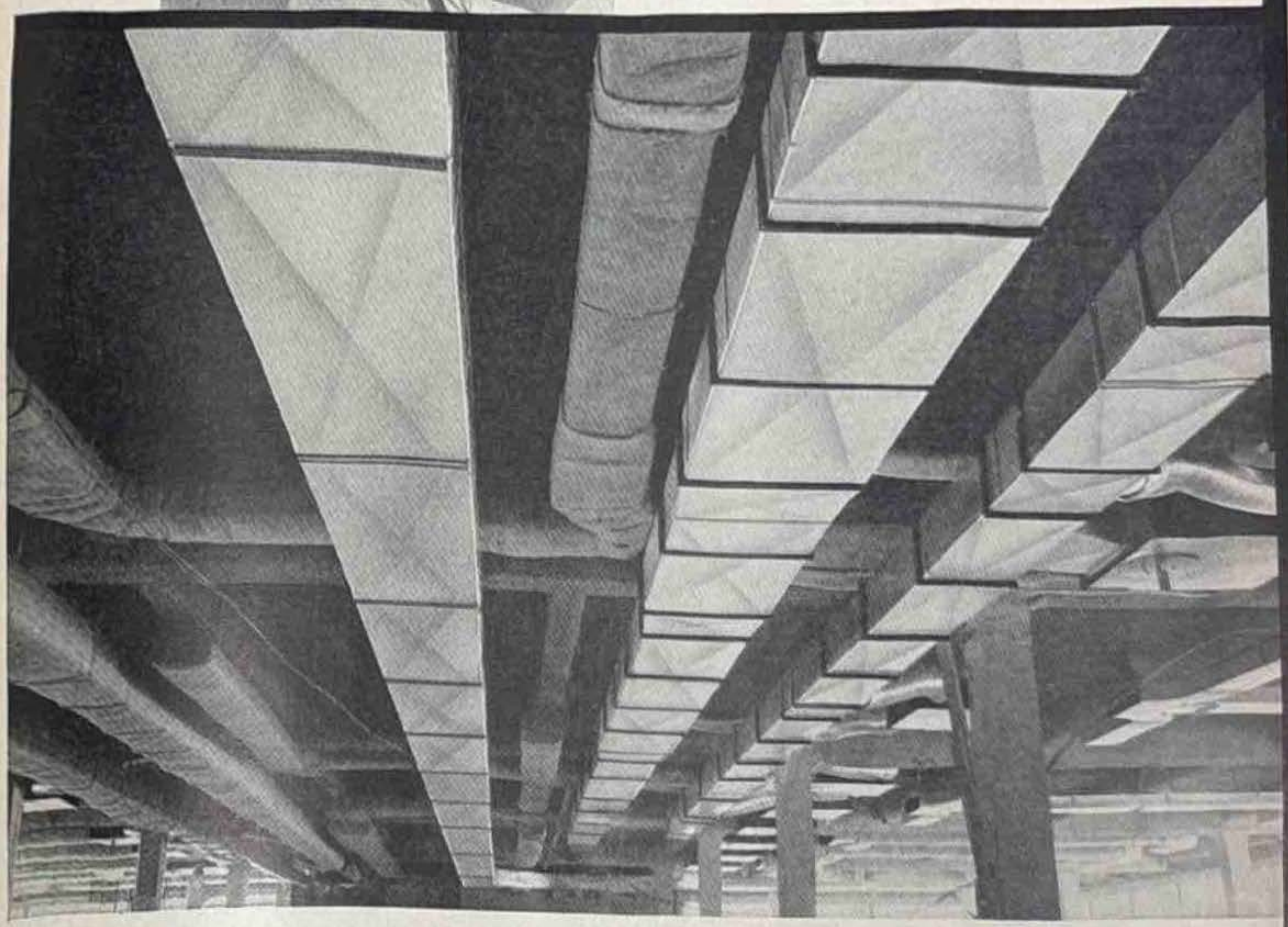
TYPICAL CLASSROOM shows students seated around perimeter to facilitate group discussion. Chemistry rooms too are designed with laboratory tables arranged in this manner, permitting use of movable tables and variety of arrangements for recitations. When class is engaged in laboratory work, students face their own tables with backs toward center of room—practical both from supervisory point of view and as aid to concentration.



CAFETERIA is centrally located on ground floor, with large glass walls opening to protected terrace and lawn area. Food service is designed to utilize "hollow square" method rather than conventional food lines. Students come into serving area and go directly to counter which has dish they desire. Change windows are provided outside, much like an automat, and food is payed for as each item is picked up.



Welcome touch in 1st National's new Portland home is "zone control." Personnel simply set handy wall dials for the blend of air they wish. Hot and cold air streams meet in hi-pressure "mixing boxes"... blend and flow into offices at just the right degree for pleasant air conditioning.



Steel ductwork solves installation problems

Portland's newest banking office incorporates many architectural innovations. In addition to a handsome exterior, the 1st National Bank of Portland contains a modern, zone-controlled air conditioning system. Fifty tons of USS Galvanized Steel Sheets compose the ventilating ductwork which furnishes ideal temperatures throughout the year to every office in this four-story building.

Streimer Sheet Metal Works, of Portland, solved more than one installation problem by using USS Sheets. To fit construction requirements, they built the ductwork in varying depths ranging from six inches to sixteen inches. The steel sheets were ductile enough to wrap easily around sharp corners, form tight seams, and provide ample strength and corrosion resistance. Good reasons why USS Sheets are on the job today in this Portland installation and in so many others throughout the West!

Steel ductwork can solve installation problems in any office or industrial structure. Write to the address below for the names of ductwork fabricators who can provide you with additional information.

Specify USS—One Source for All Steels

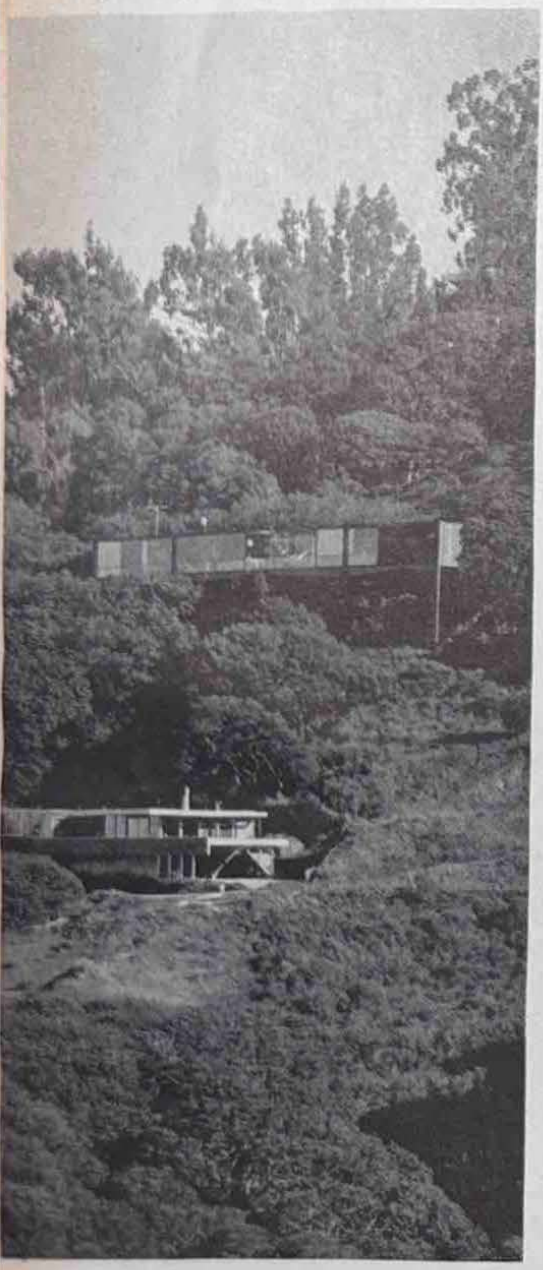
United States Steel Corporation · Columbia-Geneva Steel Division
120 Montgomery Street, San Francisco 6

USS



Steel framing for 'impossible' lot

STEEL WORK consisting of wide flange sections used as supporting columns and set on low foundation of eight piers is visible on steep slope of 120x70-ft. lot on Sausalito promontory. Spanning gully is 50-ft. bay.



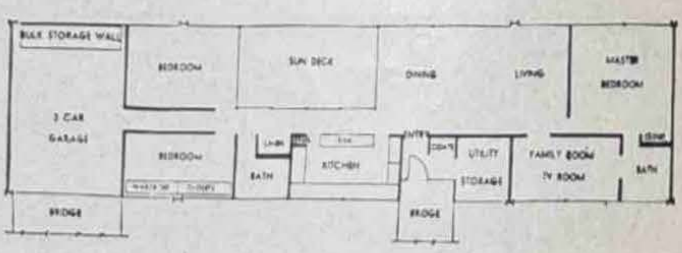
THE HILLSIDE SITE across from San Francisco Bay consisted of a slope of from 50 to 70% of uneven terrain covered by dense scrub oak, with a drain gully in its exact center. The architect turned for assistance to a civil engineer who went to steel framing for his structural design. He set the steelwork on the steep slope on a low foundation of eight piers connected with concrete tie beams, four piers at each end of the house.

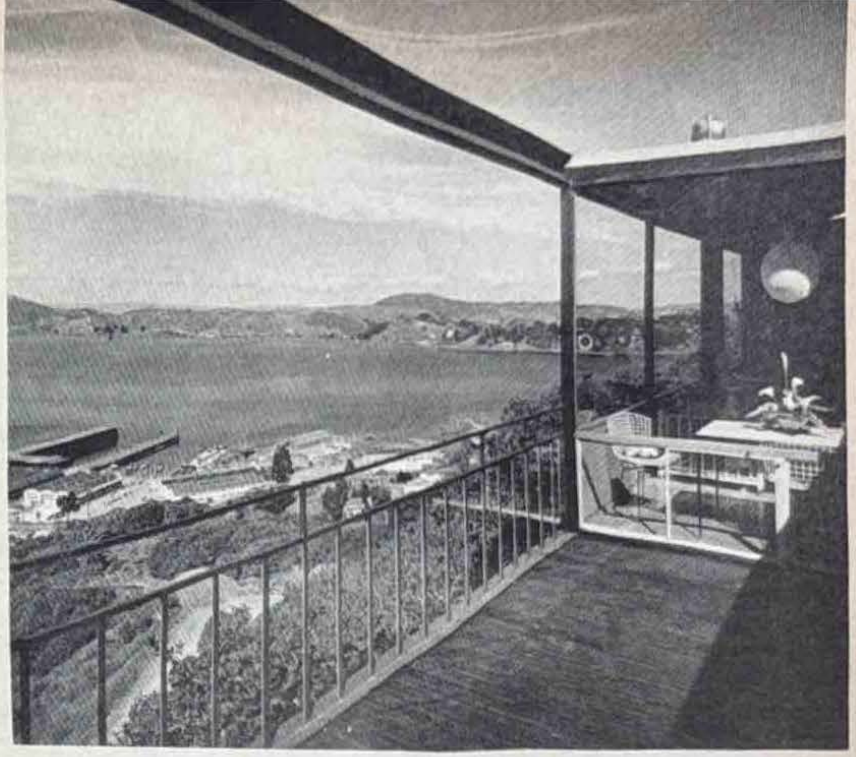
Flange sections 14 in. wide were used for the supporting columns. Bays for the 100x22½-ft. structure were 25, 50 and 25 ft., the 50-ft. bay spanning the gully. Connecting girders supporting the house were fashioned from 20-in. I-sections, diagonally torch-cut along the web, from 28- to 12-in. taper and rewelded. Eight-inch wide flange sections were used in the roof beams.

In the exposed design the steel was shaped to follow closely the appearance of the stress diagrams of the structure. The exposed pattern of hipped girders, with broken lines, served to break the monotony of square shapes and angles. The 50-ft. bay spanning the gully left this portion of the lot open and free of structural elements which might otherwise impede drainage or cause slipping in severe water runoffs.

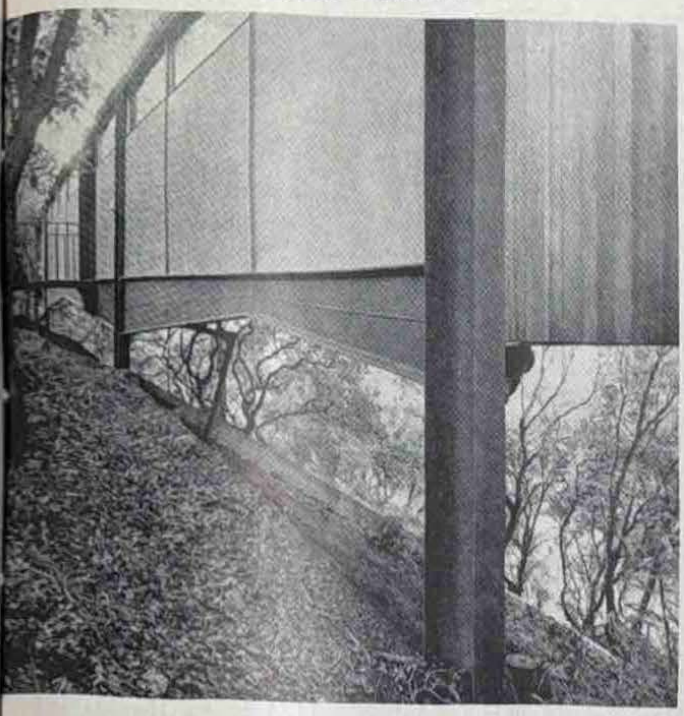
The 2,200 sq. ft. of living area was built for $24,000, or just under $11 per square foot. "Using the steel frame solved the costly problem of underpinning the house to elevate it to street level and the shorter time required for the steel work made the overall cost of the home lower," the engineer asserts.

Walls are of glass and plywood panels; the interiors are decorated in raw linen laid on fiberboard panels. Six layers of floor material, including one of cork, were placed over insulation. The rooms surround a glass enclosed deck overlooking the Marin Hills and Richardson Bay. When business took the architect to another city, the house was sold and the new owners rearranged several rooms for less than $1,000. They doubled the size of the children's bedrooms by converting the play area; and enlarged the master bedroom by moving it from the view side (now the family room) to the space formerly devoted to a study, separated from the living area by a movable partition.





OUTSIDE PATIO IS GLASS ENCLOSED on three sides. Steel framing eliminates interior bearing walls and columns which might otherwise limit view. Bridges lead to entry and to garage at extreme left.



OUTLINE SPECIFICATIONS

Structure: Steel (fabricated by Schrader Iron Works from rolled sections furnished by Bethlehem Pacific Coast Steel) on eight piers connected with concrete tie beams, four at each end of house; 14-in. flange sections for supporting columns; 20-in. I-sections (American Standard) for connecting girders.

Exterior Walls: Glass, plywood.

Roof: Tar and gravel.

Floors: Cork over five other layers of material and insulation (Celotex).

Interior Walls: Raw linen on fibreboard panels.

Ceilings: Exposed structural laminations.

Heating: Forced air.

Total Area: 2,200 sq. ft.

Total Cost: $24,000 (including utilities, fittings and sales tax, but does not cover alterations by new owners).

Cost per Square Foot: $11.

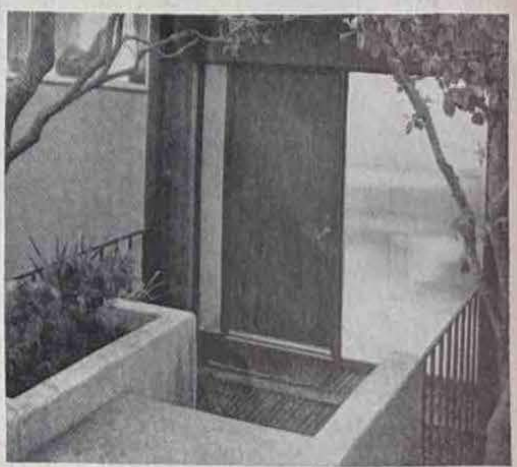
Date of Completion: January 1954.

Sausalito, California

JOHN C. HOOPS, Architect

JOHN BROWN, Civil Engineer

A. G. CHRISTENSEN, Contractor



Second of three installments

The human side of specification writing

by KENNETH M. WILSON

ONE CANNOT ENTER into a study of specifications and their reception by the various segments of the construction industry without recognizing that the specifications that we write are like a mirror. In them can be seen every strength we possess and, with equal clarity, our weaknesses too. They bring to the cold light of day self-confidence or the lack of it. They cry out the relationship that exists between architect and engineer, between the design professions and their clients, contractors and manufacturers. They focus attention on the failings of our institutions of higher learning to whom we look for the engineers and architects of tomorrow. The day is now past when any architect, engineer or technician can do more than have a speaking acquaintance with more than a few of the complexities of science that go into today's modern building.

Architects are finding that they must rely more and more on the specialized services of consulting engineers who are qualified to design and specify our evermore complex building services. The deplorable practice that is indulged in by far too many architects of retaining a consultant as a blueprint maker and then denying him authority to supervise bidding and construction of his own work is one that must be wiped out. It is my humble opinion that not one practicing architect in 50 is qualified to even offer intelligent field supervision of contractors in the mechanical and electrical trades, not to mention the problem of ruling on the suitability of equipment for an application that was conceived, planned and specified by a member of the engineering profession. I firmly believe that any architect who wishes to keep step with our changing times must recognize and admit that pursuit of his profession is no longer a one-man show and that no one man can be all-seeing, all-knowing or qualified to sit in judgment of the work of other professions.

Consulting engineers too must learn many new things. One of them is that important as are physical comfort and convenience in the modern building, beauty, line, balance, color, arrangement and human motion are equally important. I have been in many new buildings where the architect's attempt to achieve this end was rendered useless by the engineer's placement of an ugly pipe line, a boxy duct, an ill-considered lighting fixture or an ill-chosen heating unit. A little thought and ingenuity on the part of the engineer could have made these objects complement rather than mar the inherent beauty of a given room.

Consulting engineers must learn that our fast-moving times are a challenge to their special skills. Our times offer an opportunity to truly grow in professional stature if engineers will cease to use the obstacles they face as excuses for compromise. Just as long as a consulting engineer will permit himself to be relegated to the position of a blueprint maker, just so long as he will permit an ill-qualified architect to make the decisions he alone should make, just so long as he fails to follow his own work with faithful field supervision, then just that long will he work for a pittance instead of a fee, because so long as he does, that's all he is worth.

Another point that is badly in need of attention is the relation between actively practicing architects, engineers, technical designers and the instructors and professors in our engineering and architectural colleges. We criticize these men in engineering education on several counts. First of all they are indoctrinated with the idea of so arranging their courses of instruction as to prepare their graduates only for work with industrial and manufacturing concerns. Very few of our engineering colleges make any effort to teach the fundamentals of business management, public relations, public speaking, professional ethics, engineering law and applied psychology as a required or even available part of engineering training. Yet if you check with any professional engineer, it will be found that more than 80% of his time is devoted to work in the fields which are largely ignored by our institution of engineering education.

Almost none of our colleges of engineering even bother to acquaint their students with the kind of work done by a professional consultant in private practice. Yet in nearly every professional examination board in the nation, you will find the personnel of engineering education represented far beyond their proper proportion in determining who is and who is not competent to practice as a professional consultant. Even worse, many of them who are technically licensed consultants offer their services to government and industry at cut rates, utilizing student help and college facilities to enable them to cut their fees. It is not surprising that the private consultant who must bear the cost of operating an office and paying employees is most unhappy about this cut-rate, extracurricular activity.

Still another sore spot is that of free engineering and specification service offered by industry to prospective customers. It is asking too much of an engineer or architect to expect him to specify the products of a manufacturer who offers free design to anyone who will buy his products. If manufacturers will have their products well received by the design professions, then they must stick to manufacturing and selling and leave the design field free for the professional designer.

The problem of deteriorating relations between the general public and the design professions is one that is deeply rooted in the inadequacy of our specifications, in professional administration of these specifications, in poor support of these professions by our colleges of engineering and architecture, and in competition between industry and the public consultants. All of the design professions have paid far too little attention to the way their efforts are presented to society and have made little or no effort to acquaint the general public with the architects' and engineers' place in the scheme of daily living. It therefore follows that so long as the cost of building continues at an unjustified rate of increase and public work costs exceed both estimates and the public's ability to pay, so long as professional infighting continues, we cannot expect the public to swallow it with a smile.

These are the human problems that must be solved if the design profession will keep pace with our fast moving times. This is the unpleasant reflection that faces us in the mirror of our own specifications.

Material handling depends on planning

"FOR MANY COMPANIES, the greatest deterrents to the initiation of effective material handling methods and equipment are the basic restrictions imposed by building limitations."

So says W. A. Meddick, vice president of Elwell-Parker Electric Co., Cleveland, in a special report to industry outlining those factors to consider in planning a new or modernized plant to take advantage of the many benefits from industrial truck handling.

Meddick stresses the importance of proper layout and material flow and suggests following these points to best utilize industrial trucks for maximum flexibility on a non-fixed route basis.

1. Locate incoming temporary storage as close to receiving areas as possible, so long as they are consistent with their point of original use on processing or assembly lines.
2. Where possible, move maximum size loads from storage to work stations. This minimizes the required number of truck trips and also reduces the chance of delays at work stations due to lack of available materials.
3. Be sure that trucks which handle loads from the ends of production, assembly and packaging lines have sufficient capacity and speed and are in adequate numbers to prevent bottlenecks.
4. When planning the location of work stations and processing fabrication equipment, allow sufficient area for proper maneuverability of industrial trucks together with their loads.

While most companies would prefer a one-story building, with its attendant handling and production advantages, obviously the majority of firms must settle for multifloor operations. Where such is the case, there are special considerations that must be observed. For example, in planning for location of elevators, points to be followed include:

1. Where storage is maintained on upper floors, goods most often handled to other floors should be located nearest to the elevators. This will minimize travel by industrial trucks, speed overall handling operations.
2. Where processing stations are located on upper floors, the end points of continuous lines should also be located as near to elevators as possible for the same reason.
3. Overall, elevators should be as centrally located as possible to minimize travel from all areas of each floor.

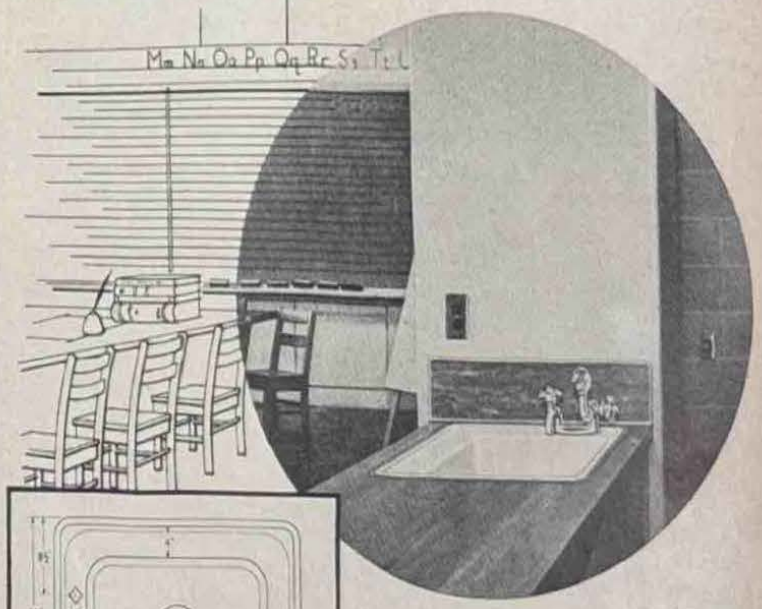
In some instances, elevators may not be sufficient to handle the required work volume and it may be impossible or impractical to install additional units.

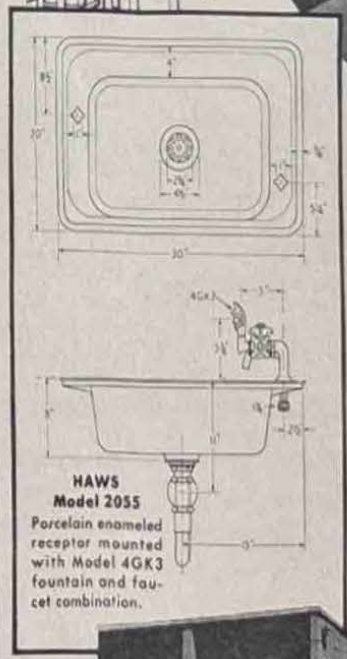
In this case, the solution may be found in ramps, chutes or interfloor lifts to eliminate congestion. Such conveyances may prove valuable if properly utilized, but in all cases should be located to provide proper servicing by industrial trucks. If ramps are installed, it is important to restrict their grade to enable trucks to effectively utilize such roadways.

Building columns should be spaced for maximum efficiency of handling since loads may be even wider than the handling equipment used. Even more important is the spacing of columns for maximum utilization of available storage area. In this connection, the size of the loads to be stored will have an important bear-

Continued on p. 33

right where it belongs...IN THE CLASSROOM!



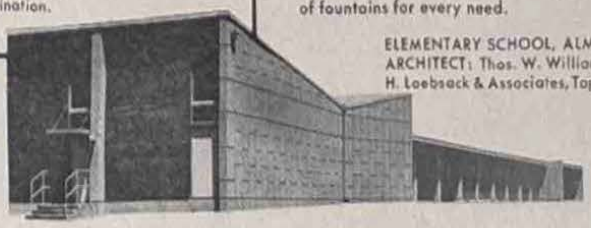


HAWS Model 2055 Porcelain enameled receptor mounted with Model 4GK3 fountain and faucet combination.

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MODERN school design recognizes the necessity for versatile drinking facilities within the classroom ... HAWS famous deck-type receptors may be equipped with a wide choice of HAWS faucets and fountains, and are attractively styled in porcelain enamel or stainless steel for lifetime wear and sanitation. VANDAL-PROOF fixtures prevent juvenile damage, assure uninterrupted service.

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ELEMENTARY SCHOOL, ALMA, KANSAS
ARCHITECT: Thos. W. Williamson, Victor H. Loebseck & Associates, Topeka, Kansas

HAWS DRINKING FAUCET COMPANY
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BRIGGS BEAUTYWARE announces

featuring the SCULPTURED LOOK..



B6782—SULTAN: Syphon jet wall hung bowl with top spud.



B4012—MERCURY drinking fountain with glass filler. Semi-recessed, wall hung.



B3461—MILTON: 24" x 20" lavatory with back, 8" centers. For concealed carrier.



B6960—SANITON: Syphon jet women's urinal with floor outlet, top spud.



B6706—CARLTON: Syphon jet floor outlet bowl with top spud.



B6911—LAWTON: Wall hung washout urinal with extended shields, top spud.

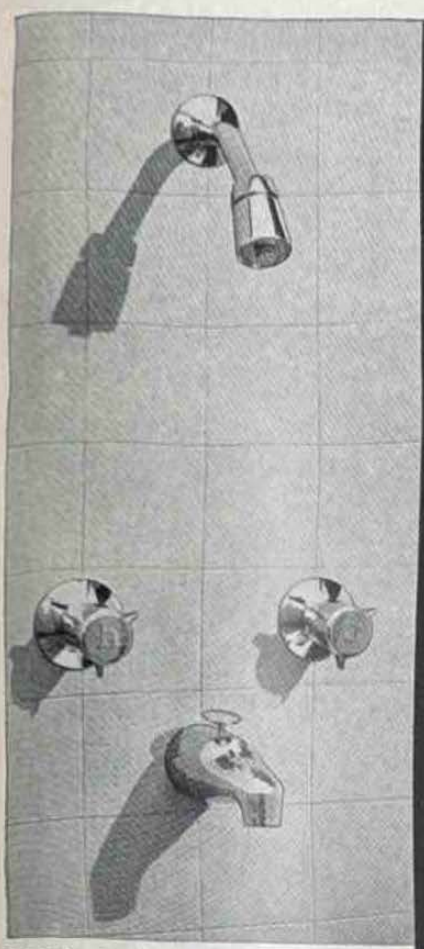
A complete new line of vitreous china fixtures for commercial, industrial and school use!

Briggs Beautyware—famous for quality plumbing fixtures for residential use—now moves into the industrial, commercial and school field with a complete new line of vitreous china plumbing fixtures. Designed by Harley Earl, Inc., they feature a *sculptured look* that's as contemporary as today's architecture! And, there's a size and type of fixture to meet nearly every commercial and industrial requirement—from lavatories to service sinks, from men's and women's urinals to drinking fountains. Shown above are representative models. Write today for complete specifications on the entire line.

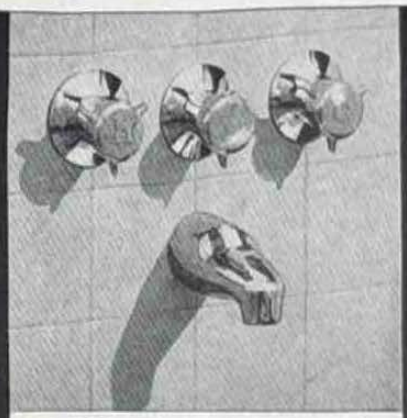
BRIGGS

two new plumbingware advances

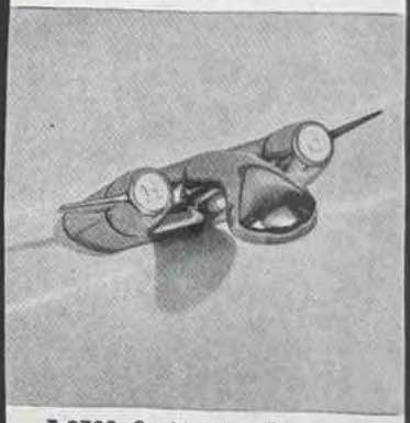
a dynamic new design concept



T-8116. Combination bath and shower fitting with automatic diverter valve in spout. 8″ centers, self-cleaning shower head, shower arm with ball joint and flange.



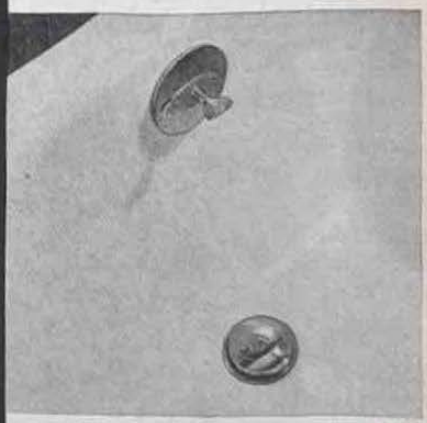
T-8106. Combination bath and shower fitting with manual diverter, 8″ centers, self-cleaning shower head; shower arm, ball joint, flange.



T-8722. Combination 4″ centerset lavatory fitting with spray spout and strainer waste.



T-8710-S-8. Combination lavatory fitting, 8″ centers, with aerator, pop-up drain, 1¼″ tailpiece. Also available for 10″ and 12″ centers.



T-8401. Trip lever drain with 1½″ tailpiece. (overflow plate and drain plate illustrated).

A colorful new line of Beautyware Brass fittings for both residential and commercial use!

Briggs incorporates the "sculptured look" into its new Beautyware line of brass fittings in truly exciting fashion! This advanced styling by Harley Earl, Inc., is the perfect compliment to Briggs residential and commercial lines. In addition, new Beautyware brass fittings incorporate unique, interchangeable colored inserts to match each Briggs color as well as chrome and white. Write now to Briggs for a colorful brochure with complete details and specifications.

BRIGGS MANUFACTURING COMPANY • WARREN, MICHIGAN

B E A U T Y W A R E

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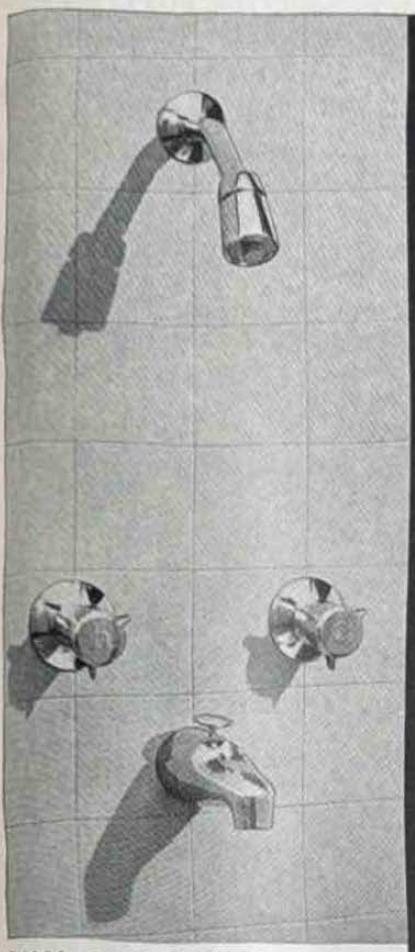
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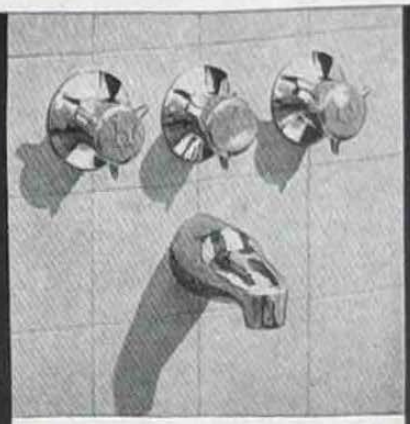
BRIGGS

two new plumbingware advances

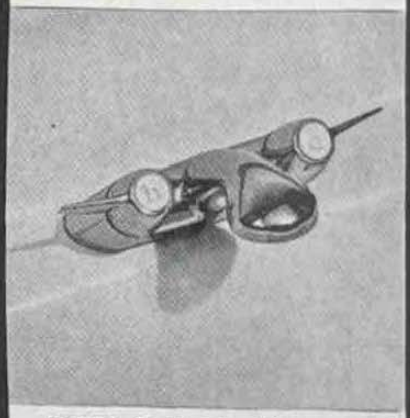
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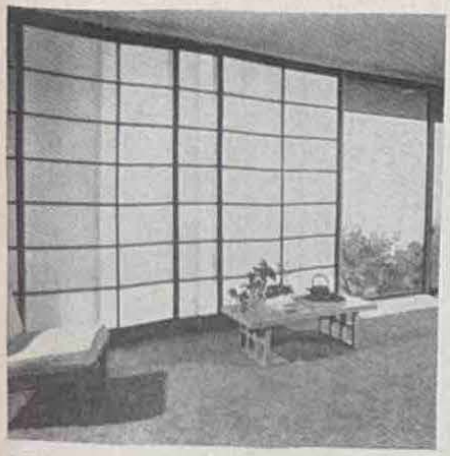
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SLIDING PARTITIONS: Outstanding feature of the Carlton sliding room dividers and screens is the elimination of a floor track. A sliding bottom floor guide permits the installation to be made over carpets without cutting, damage or obstruction of any kind. The mahogany or other hardwood panel frames are available in six colors; backgrounds of the panels are covered with either perforated metal or translucent plastic in a variety of designs. One of the applications is shown above—the use of a screen at windows in lieu of drapes.—Carlton Products.

(Item No. 1)

CEILING CONSTRUCTION: Plaster and wire lath for ceiling construction that offers such structural strength the ceiling cannot fall, unless the building collapses, is made possible by electrically welded steel wire, paper-backed K-Lath and specially designed, zinc plated earthquake staples. When applied under wood or steel joist, it forms a sheer ceiling. Tests show that wood joists break or wire ties fail before K-Lath gives away.—K-Lath Corp.

(Item No. 2)

CERAMIC TILE: Easier and faster installation of ceramic wall tile is possible with 12-tile sheets of Suntile marketed under the name Setfast. The 4¼x4¼ tiles are permanently mounted on a specially developed mesh which helps the installer work swiftly by adjusting to minor surface imperfections and remains imbedded in the mortar or adhesive, like the ribs in reinforced concrete. The concealed mesh unifies the tiles and gives the tile-to-wall bond an increased safety factor for vibration, structural shifts and temperature changes.—Cambridge Tile Manufacturing Co.

(Item No. 3)

PREFAB SKYLIGHT: Toplite is a prefabricated skylight which "selects" only the most desirable rays of sunlight the year round. Its function is based on use of solar-selecting prisms which "open" and "close" to admit only cool, even light while rejecting the sun's hot rays. The unit is available in five stock sizes ranging from 2x2 to 6x3 ft. Two types are offered: one a flange type permitting installation directly on the roof deck; the other for installation on prepared masonry, wood or metal curbs.—Kimble Glass Co.

(Item No. 4)

ALUMINUM PARTITIONS: To stress the design flexibility of conventional sections, Harvey has developed an aluminum partition system made of standard extruded shapes. Height of the partitions varies, depending on requirements, and supplementary paneling can be made of aluminum, glass or wood to harmonize with the decor desired. Standard extruded glazing channels can be used to hold the glass or panels. All the channel and square tubing can accomodate telephone, lighting or other service wiring, giving infinite flexibility.—Harvey Aluminum.

(Item No. 5)

INSULATION: A perimeter and cavity wall insulating material which permits on-the-job fabrication is reported to save up to 50% reduction in installation time. Of expanded polystyrene measuring 1 in. thick, 2 ft. wide and 8 ft. long, Scorbord has three striations cut the length of each board at the 3-, 12- and 20-in. marks across the width. This allows the installer to snap off widths of 3, 4, 8, 9, 12, 17, 20 and 21 in. as well as utilize the 24-in. width.—Dow Chemical Co.

(Item No. 6)



WOOD FLOORING: WoodX, which looks like cork, but is said to exceed oak in wearing ability, expands and contracts from floor to ceiling, not wall to wall. Random grain structure makes the floor non-slip and acoustically quiet. It is offered in both block and dowelled plank for mastic application or nailing and is laid, sanded and refinished just as any other type of wood floor.—L. D. Reeder Co.

(Item No. 7)



FLOOR FURNACE: Designed with a shallow well, an oil floor furnace built with the Electro-Jet burner is said to reduce fuel costs about 15% through utilization of No. 2 fuel oil. It is automatically self-lighting and available with thermostatic control which permits manual operation in case of power failure.—H. C. Little Burner Co.

(Item No. 8)

STAINLESS STEEL DOOR: Overly's all-stainless steel door is flexible in that it may be of solid paneling or may include vision lights or louvers for any building requirement. Suggested applications include lobby interiors, offices and banks. Complete assemblies, with stainless frame and hardware, are available in standard and custom sizes.—Overly Manufacturing Co.

(Item No. 9)

WATER COOLER: Newest Oasis electric cooler, the In-A-Wall, is adaptable for mounting to any basement's overhead joists, with both the drain and adjustable thermostat located in front for easy accessibility. A grill covers the unit when installed in or behind a wall and it is available in a stainless steel or with a prime coat ready for painting.—The Ebco Manufacturing Co.

(Item No. 10)

Latest Handbooks, Manuals and Literature

Yours for the Asking

HEATING: Carrier's 71-page manual entitled "Design Data Heating" should be helpful to architects and engineers in the layout of efficient heating systems for factories, auditoriums, gymnasiums and other large area buildings. It contains engineering information for determining proper application and capacity requirements of unitary or central plant systems. Subjects covered in the guide are survey, design conditions, transmission coefficients, heat loss calculations and piping sizes. Data for all sections of the country have been provided in a table listing key cities in each state along with their design temperature, annual degree days and prevailing winds.—Carrier Corp.

(Item No. 11)

ELEVATOR ENGINEERING: "Engineering Counsel on Elevators—a Service to the Architect" discusses the role of the consulting engineer on vertical transportation problems. Covered in the eight-page brochure are procedures available on planning for new construction or modernization, traffic surveys, writing of specifications, analysis of bids and supervision of construction through safety and other code approval.—Charles W. Lerch & Associates.

(Item No. 12)

INTEGRAL PIGMENTS: A brochure describing the uses and application of Sonobrite, integral coloring for concrete, mortar and stucco mixes, illustrates the four shades available besides black—tile red, green, buff and brown. The pigment can be added to concrete for floor toppings, walls, sidewalks and brick mortar, as well as to such commercial products as block, tile and precast masonry, without affecting their tensile or compressive strength.—L. Sonneborn Sons, Inc.

(Item No. 13)

ACOUSTICAL CEILINGS: To provide a fast means of preparing individual acoustical ceiling specifications, Armstrong has issued tear-apart specifications—perforations divide each paragraph—that can be removed from a booklet and reassembled to meet particular job requirements. The booklet in which they are bound is divided into three sections: job conditions and brief specifications; material specifications; installation specifications. If the architect needs specifications calling for a mineral wool ceiling to be applied with acoustic cement, he merely tears out the paragraphs pertaining to job conditions, mineral wool acoustical tile and cement installations, and circles the size and thickness of the material desired.—Armstrong Cork Co.

(Item No. 14)



WALKWAY COVER: Referred to as America's low-cost prefabricated walkway cover in a four-page brochure, the Childers model is an all-steel unit. It reportedly will save at least 30% over individually designed covers because it is mass produced and stocked for prompt shipment.—Childers Manufacturing Co.

(Item No. 15)

PRECAST CONSTRUCTION: The use of precast concrete frame, floors and roof in the Seahorse Hotel in Galveston, Tex., is described in a six-page folder that features construction photos and detail drawings of the crescent shaped project. The building has 104 guest rooms, each of which has a sundeck overlooking the Gulf of Mexico. Flexicore floors and roofs are exposed on the underside to form finished ceilings in the guest rooms and ceilings for the sundecks and outside walkways.—The Flexicore Co.

(Item No. 16)

STEEL IN SCHOOLS: To illustrate the use of its light steel structural sections in school construction, Penn Metal has issued a 22-page booklet with three sets of plans, drawn in perspective, showing typical classroome arrangements and methods of framing used for walls and roofs. In conjunction with these plans are enlarged sections depicting joints between load-bearing and non-bearing walls; methods of attaching collateral materials to the framing members; closet, fascia and roof details; and a number of alternate constructions, such as stucco and brick veneer for exteriors.—Penn Metal Co., Inc.

(Item No. 17)

MARBLE: The use of marble in a variety of applications ranging from countertops in the home to exterior veneer for large commercial buildings is described in a 28-page booklet. This profusely illustrated piece also includes brief discussions concerning the permanence, versatility and relative cost of marble.—Marble Institute of America.

(Item No. 18)

GLUED LAMINATED LUMBER: The revised "Standard Specifications for Structural Glued Laminated Douglas Fir Lumber" has been divided into two publications: the first covering design is intended primarily for architects and engineers; the second covering fabrication for timber fabricators and inspection agencies. The former treats design stresses, effect of duration of load and effect of curvature on stresses. Standard sizes of glued laminated members are given and the specifications provide for identification and inspection. The fabrication booklet contains requirements for lumber grades, adhesives, members loaded normal to the edges of the laminations, end joints and assembly of laminations into a member.—West Coast Lumbermen's Association.

(Item No. 19)

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.

NOVEMBER 1957

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____

PA&B
T-square talk

NEW OFFICES: Marvin Witt Jr., architect, and William K. Roth, landscape architect, have opened offices at 909 Failing Building, Portland. After graduating from the University of Oregon in 1951, Witt took postgraduate training in Europe under the Ion Lewis traveling fellowship. He has been with Lawrence, Tucker & Wallmann for the past few years. Roth has been associated with landscape architects David E. Thompson and L. M. Thielen.

✔ Max E. Kuhr, who has been employed in architectural offices in the Los Angeles area, has established his own practice in the Filicetti Building, Havre, Mont.

✔ Seattle architect Artfield Johansen has opened an office at 1623 Boren Ave. (Mutual 5832). A graduate of the University of Washington, he has worked in the offices of Victor Jones, John Graham and Naramore, Bain, Brady & Johansen for the larger part of 17 years.

✔ Joseph H. Rudd, AIA, of Portland has established offices at 602 Hughes Building (CApitol 7-7282).

✔ The architectural partnership of Cummings & Martenson has been formed at 250 Market St., Kirkland, Wash., by Harry L. Cummings and Eugene G. Martenson, both of whom have been associated with several Seattle firms. Cummings studied at Iowa State College and Cranbrook Academy of Art; Martenson at the University of Washington.

✔ Eliseo O. Mariani and Donald A. Cumings have established the engineering firm of Mariani & Cummings with offices at 941 N. La Cienega, Los Angeles. Formerly of Buenos Aires, where the company maintains an office, Mariani is a graduate of Indiana University. Cummings received his BS degree at the University of Southern California. Both men most recently were employed by Pereira & Luckman.

ON THE MOVE: The architectural firm of Lindahl & Bacon is now located at 20 102nd N.E., Bellevue, Wash.

✔ Ernest M. Hicks of Coeur d'Alene, Idaho, who conducted his architectural practice in the Powell Building which recently burned, has relocated his office in the Victor Apartments.

✔ The Los Angeles architectural-engineering firm of Benedict, Beckler & Associates has moved into a building which it designed at 3501 Cahuenga Blvd. Sharing space in the new quarters are Albert Erkel & Associates, structural engineers, who recently were brought into association with the firm.

FIRM CHANGES: The Spokane architectural-engineering firm of Culler, Gale, Martell & Norrie has named a junior partner, chief draftsman Edward M. Watson, and six associate members: Keith T. Boyington, Donald R. Ericson, Donald L. Read, Charles F. Soliday, Darrel C. Stebbins and Frank E. Wescott Jr.

APPOINTED: The Pasadena and Los Angeles architectural firm of Neptune & Thomas has named F. Kirk Helm as director of architecture.

✔ Wallace V. Cunneen Jr., former vice president and board member of The Cunneen Co., Philadelphia, has been appointed to the executive staff

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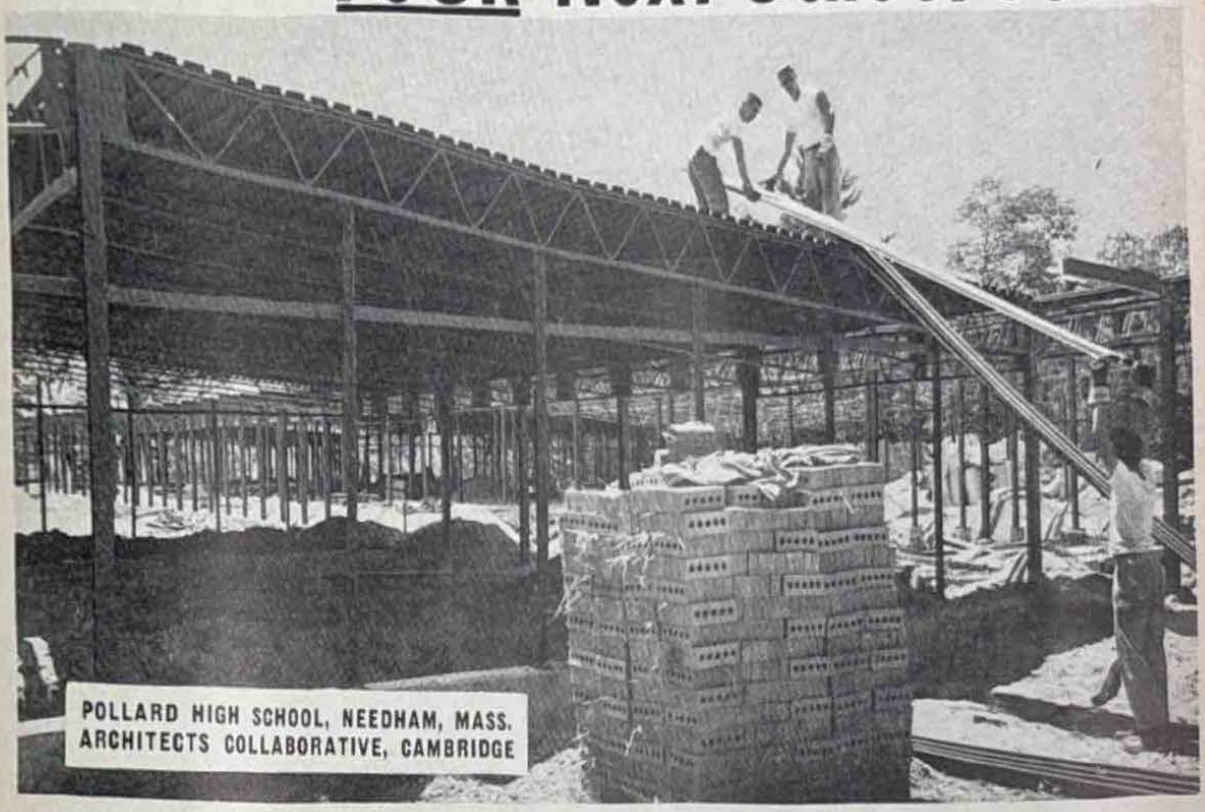
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It only takes one V-LOK job and the savings in erection time to make a School Board and the tax payers in that district your friends for life. The V-LOK Design Manual will be a welcome addition to your files. Send for it.

MACOMBER CANTON 1, OHIO

of Welton Becket & Associates, with headquarters in the firm's San Francisco office.

Pereira & Luckman, Los Angeles architectural-engineering firm, has promoted William G. Brownie to director of construction management and named George W. Coleman, structural engineer and lawyer, as assistant director of engineering.

ELECTED: The Billings (Mont.) Architectural Association has named these officers: Lewy Evans Jr., president; Francis W. Gustafson, vice president; and C. D. Hall, secretary-treasurer.

New president of the Professional Engineers of Oregon is E. R. Fletcher, industrial sales manager of Portland General Electric Co.

EXAMINERS: New officers of the Oregon State Board of Architect Examiners are Clarence H. Wick, president; Walter Gordon, vice president; George Whittier, treasurer; and Mrs. Rudy Meffert, secretary. Other members of the board are Cleo H. Jenkins and Irving G. Smith. All are from Portland except Jenkins, who comes from Corvallis.

SCHOLARSHIP: Fourth-year architectural students at the University of California will be eligible for a scholarship covering fifth-year study in a competition sponsored by Koppers Co., Inc., based on a problem for flat roofed non-residential structures. Introduced as part of the regular classroom study, the problem will be presented during the fall semester.

PLANNERS: Meyer Wolfe, associate professor in the College of Architecture and Urban Planning at the University of Washington has been named president of the Pacific Northwest Chapter, American Institute of Planners, at its annual meeting in Seattle recently. Other officers: Dale D. Cannady, Seattle, secretary; Lloyd Keefe, Portland, vice president; Harry Aumack, Spokane, Intermountain representative; James Wilson, British Columbia representative.

SEMINAR: A workshop seminar for architects has been set for December 7 in Hancock Hall at the University of Southern California as part of the national AIA post-graduate program.

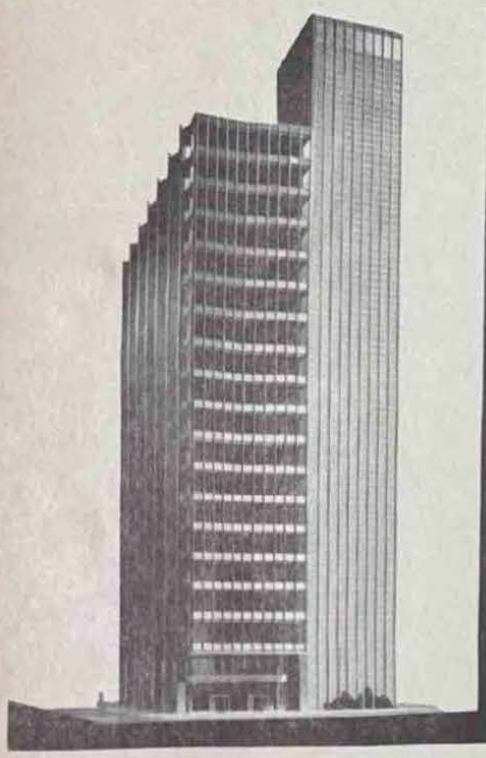
Southern California AIA honors five projects

Top honors in the 1957 triennial Honor Awards program of the Southern California Chapter, AIA, have gone to the following five buildings (to be shown in next month's PA&B) and their designers:

- Los Angeles Police Administration Building by Welton Becket & Associates, J. E. Stanton, associate architect.
- Northrop Aircraft Engineering building and cafeteria in Hawthorne by Pereira & Luckman.
- Neighborhood Church in Pasadena by Smith & Williams.
- Attorney's office in Long Beach by Killingsworth, Brady & Smith.
- Residence in Long Beach by Killingsworth, Brady & Smith.

Over 200 entries were judged by a panel of 24 previous honor awards winners, who selected 40 finalists. The top five were then picked by a jury consisting of three architects—George Nelson of New York, Philip Will of Chicago and John Carl Warnecke of San Francisco—and Los Angeles industrialist Charles Ducommun.

Citations were presented at a dinner October 15 at the Ambassador Hotel. Maynard Lyndon was chairman of the awards program.



Another Outstanding CREST Tile-Set Thin-Bed Installation: Chicago's Giant INLAND STEEL BUILDING

ARCHITECTS: Skidmore, Owings, and Merrill, A. I. A., Chicago

TILE CONTRACTORS: Ravenswood Tile Company, Skokie, Ill.

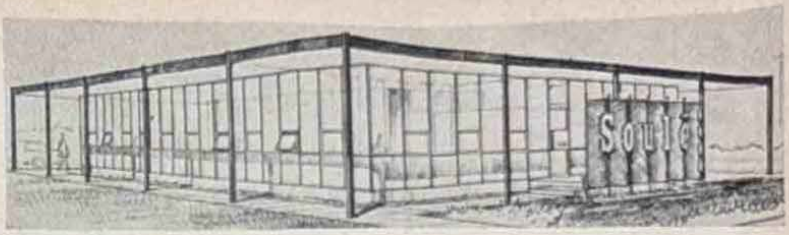
What A Project! The Inland Steel Building — first new skyscraper to go up in Chicago's "loop" in 21 years. To help create a beautiful interior, the architects (Skidmore, Owings, and Merrill, A. I. A.) specified thousands of feet of ceramic tile and marble.

What A Product! The tile contractors (Ravenswood Tile Company) faced a problem: How to produce a superior job, a permanent job, *fast*, while holding costs down. That's why CREST Tile-Set, the amazing Thin-Bed Portland Cement Compound for installing tile *dry*, was selected for the job. You see, CREST Tile-Set cuts weight up to 65% . . . saves time by eliminating mortar box mixing, tile wetting, waterproofing, *and* lathing! Too, CREST gives a stronger, more water resistant bond! Remember the Inland Steel Building . . . specify CREST Tile-Set and be *sure*. It's installation-proved throughout the nation!

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STEEL AND ALUMINUM FABRICATED by the client will be featured in box frame structure to provide for expansion of Soule Steel Co.'s Portland sales district. Roof overhang will provide sun shade and protected walk around 58x81½-ft. building. Architects: Scott & Payne.

• **Square D Co.** has appointed Dan Miller, Northwest regional manager for the past five years, as western division manager, with headquarters in Los Angeles. He succeeds Lawrence G. Maechtlen who has been promoted to first vice president in the firm's Detroit executive offices.

• **Chase Brass & Copper Co.** has opened a new warehouse and district sales office at 230 Shaw Road in South San Francisco.

• **Johns-Manville Sales Corp.** has appointed Tom Robinson, formerly in the Portland territory, to represent its building products division in northwest Washington, with headquarters in Bellingham.

• **Pioneer Manufacturing Co.** of Los Angeles has completed realignment of its sales organization with the appointment of Edward E. Headrick as assistant national sales manager. Joining the firm three years ago, he was promoted to staff assistant to the executive vice president in 1956.

• **Tamco Corp.** of San Rafael, Calif., has named Robert W. Ray as regional sales manager, covering southern California, Arizona and New Mexico from his Los Angeles base.

• **Laurence Myers & Co.**, 61 Bluxome St., San Francisco, has been appointed distributor of Morgen adjustable masonry scaffolding, with a territory covering northern California.

• **Harvey Aluminum** expects to have its aluminum reduction plant, now under construction at The Dalles, Ore., in partial operation early in 1958, with a planned capacity rate of 108 million pounds annually.

• **Waste King Corp.** of Los Angeles has promoted Elm Weingarden from assistant national sales manager to general sales manager, filling the vacancy created by the recent promotion of A. L. Haggard to vice president, marketing.

• **California Drywall Contractors Association** has elected Paul Johnson of Hayward to succeed Wayne Vaughn of Los Angeles as president. Other officers: Fred O'Haver, vice president; M. R. McColley, secretary; and Fletcher Reynolds, Fullerton, treasurer.

• **Western Air Conditioning Industries Association** has elected William P. Tennity of Los Angeles as president. Arthur Hess has been named vice president and Fred J. Tabery reelected secretary-treasurer.

• **Northwest Hardwood Association** has reelected Emmet J. Nist of Seattle Box Co. to the presidency for a third term.

• **Weber Showcase & Fixture Co.** of Los Angeles has a new vice president in charge of manufacturing, Don Smiley, operations vice president of Honeycomb Company of America. He replaces Fred Weber who is retiring to his ranch near Solvang, but will continue to serve as a director.

• **Holly-General Co.** of Pasadena has appointed Paul F. Bruning as vice president in charge of its manufacturing, heating and air conditioning plant.

• **Southern California Chapter, American Concrete Institute,** held its first general meeting November 8 in Los Angeles, with chairman Henry M. Layne outlining plans and objectives.

• **Pomona Tile Manufacturing Co.** has realigned its sales department, adding two new representatives in the



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.

STRUCTURAL CLAY PRODUCTS INSTITUTE SCPI MEMBER

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Greater Los Angeles area: Chester A. Barklow and Byron R. Smith. Smith replaces Larry Michals who was transferred to the Pomona main office in Los Angeles. Dale Ranney, who formerly operated out of the Los Angeles office, has been assigned to the Pomona, Calif., plant.

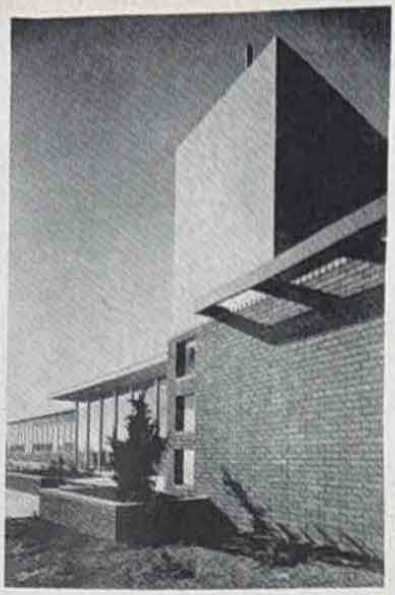
• **Kaiser Gypsum Co., Inc.,** has picked Warren R. French to supervise gypsum products sales from the San Francisco Bay region south to Bakersfield.

• **Triangle Steel Co.** of Los Angeles has promoted James McLaughlin, general manager for the past five years, to vice president.

• **Pendleton Tool Industries, Inc.,** announces that Henry W. Slining, works manager for its Los Angeles division, Proto Tool Co., has been elected vice president of the division.

• **Kaiser Aluminum & Chemical Sales, Inc.,** announces that B. W. Blalock has been appointed architectural representative in the Los Angeles district. He will work with Walter Pruter.

• **Plywall Products Co., Inc.,** of Fort Wayne, Ind., is now equipping a branch plant in Corona, Calif., for production of its prefinished wall panels.



IN SAN FRANCISCO AREA—Distribution center for Sylvania Electric Products, Inc., provides 79,000 sq. ft., including space for western regional executive and sales offices serving eight states. Designers: P. H. Van Wert of Sylvania's facilities planning department, with John S. Bolles, associate architect.

•

• **The Tele-Jac Co.** of El Monte, Calif., has appointed Oregon Manufacturers Agents of Portland, with Glenn W. Brumm as general manager, to represent its TV antenna mounting base in the Pacific Northwest.

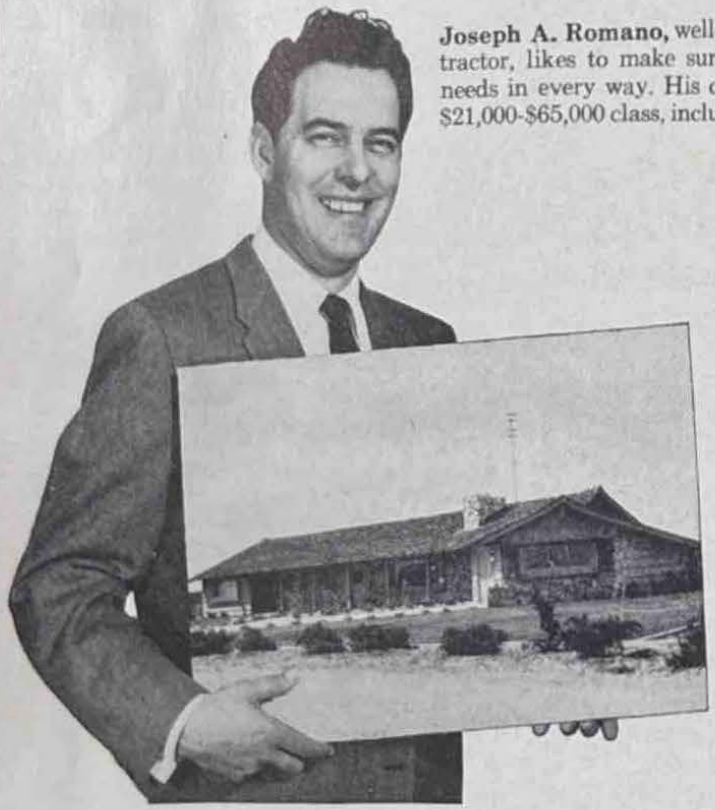
• **W. P. Fuller & Co.'s** new branch manager in Honolulu is Roy O. Brechwald, formerly manager of the Modesto, Calif., branch. John M. Fuller, Honolulu manager since the branch was established in 1954, will rejoin headquarters staff in San Francisco.

• **Leadlight Fixture Co.** of Oakland has named George E. Mitchell Jr. as sales engineer for the Bay area.

• **Fairbanks, Morse & Co.** is transferring W. F. Wahlenmaier from Portland, Ore., to New Orleans where he will be branch manager. Taking over as manager at Portland will be Milo C. Roy, for the past eight years manager of the Chicago sales and service branch. The changes are effective January 1.

• **The Trane Co.** has established a sub-office in San Diego which will operate under the general direction of the Los Angeles office. Ralph C. Snow, a sales engineer in Los Angeles, has been transferred to head the San Diego post.

Up to 8 phone outlets in newest homes!...



Joseph A. Romano, well-known Fresno, Calif., contractor, likes to make sure his homes meet buyers' needs in every way. His custom-built homes, in the $21,000-$65,000 class, include 5 to 8 telephone outlets.

To Mr. Romano, complete telephone planning is a *must* in quality home construction. Buyers look for it, and in Mr. Romano's own words, "Meeting customers' demands is one of the best ways to successful selling. That's why some of my most recent homes have as many as 8 telephone outlets." And it's also why other leading Western architects and builders include concealed wiring and plenty of phone outlets in their original plans.

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We'll be glad to help you plan built-in telephone facilities. Just call our business office and ask for our free Architects and Builders Service.

It pays to include Telephone Planning in every home you build!

NAHB speakers predict pick-up in home starts

A much brighter picture in the home building field was predicted for the near future by three speakers at the annual fall meeting of the NAHB board of directors, held recently in San Francisco.

NAHB president George S. Goodyear said that a major milestone was achieved in the recent passage of a "more realistic FHA down payment schedule" and commented that the benefits of this legislation will become more and more apparent in the days ahead.

U. S. housing administrator Albert M. Cole said he believed the volume of home building would soon increase and from Bank of America vice president D. Clair Sutherland came the statement that "the future is indeed bright for a cost-conscious, high productivity home building industry."

More than 1,000 builders and their wives registered for the meeting, the largest fall meeting ever held by the association. In addition more than 400 officers of firms manufacturing building materials and equipment attended the first National Executive Marketing Conference, held in conjunction with the NAHB meeting and sponsored by the National Housing Center.

Material handling depends on planning (Cont'd from p. 23)

ing on the spacing of such columns (so long as the basic need for ceiling or roof support is observed).

Also, the provision for sufficient floor load capacities cannot be overemphasized. Many a well planned industrial truck unit load system of handling must be ruled out because upper floors cannot withstand the weight of the truck plus its load.

It should be understood that the weight of the empty truck alone is not sufficient on which to calculate. An additional factor must be allowed because the trucks constitute a rolling weight during their operation.

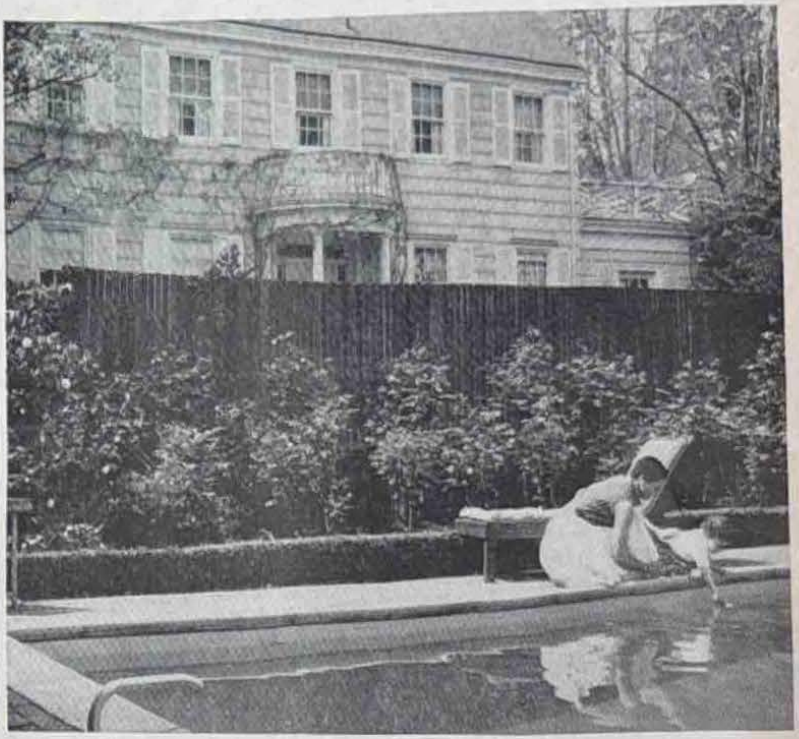
Because of the complicated problem of figuring required floor load capacities, it has been urged by the Industrial Truck Association that only qualified architects be called upon to aid in determining the proper floor capacity involved for each company according to their specific requirements.

However, it is nevertheless best to locate the heaviest production equipment and largest capacity handling equipment on the first or basement floors.

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CYCLONE RUSTAKE WIDE MESH FENCE!

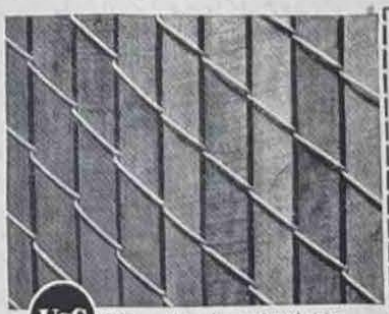


When you design a client's new home here's a finishing touch you can well include—a trim, modern boundary definer of Cyclone Rustake Fence. More and more west coast homeowners are discovering that their yards are more beautiful, more useful and private when they're securely fenced. And one of the most attractive fences for this purpose is Cyclone Fence.

Cyclone Rustake Fence is a complement to almost any style home. It consists of slim strips of beautiful California redwood inserted into the wide mesh of Cyclone Chain Link Fence. All posts and structurals are strong, sturdy, rust-resistant steel. This smart new fence increases privacy, decreases maintenance and assures years of good service.

To find out more about this beautiful fence, just send in the coupon. Then, if your clients are not already familiar with Cyclone Rustake Fence, you'll be ready to point out its many advantages.

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USS

Close-up shows how redwood strips slip into wide fence mesh.

UNITED STATES STEEL

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Address .....

City ..... Zone .. State .....

At Gearhart: probing self-analysis (Cont'd from p. 9)

tain carelessness exists in some quarters, the fact remains that a huge industry is coordinated by architects, with billions of dollars of expenditures for fairly permanent establishments controlled by them and with almost never a breath of scandal or business lapse being charged.

2. In a technical sense, never in man's history has so great a change in design and construction methods been accomplished in so short a time as our last few decades. And architects HAVE led in this development.
3. In the sense of special responsibility, architects have taken the lead in developing housing and urban redevelopment legislation, in health and education studies, in development of new, 20th century building types such as the regional shopping center, the transportation terminal building, the communications center.
4. In an educational sense, no area of professional training has gone through so radical a change in our time as the teaching of architecture; this has been a remarkably successful cooperative venture of the practicing profession and the schoolmen.
5. In a design sense, again, as we all know, the change has been revolutionary in our time. There are those who believe that a new style has already emerged; there are others who believe that many separate contemporary tendencies still battle. No one, I think, denies that in relation to the history of architecture there has been too short a time—less than a century—in which to expect a fully matured new architecture, subject to ultimate, historical criticism, to have developed.



Carl Robertson photos

CONFERENCE CHAIRMAN John K. Dukehart of Portland gives some program pointers to his successor, A. O. Bumgardner of Seattle. Washington State chapter will host 1958 meeting.

In his closing remarks, Creighton had this to say: "The great future of our profession in our time, I believe, lies in finding the position of creative leadership, without sacrifice of individuality, in relation to that community. It lies in neither being beaten down by self-deprecation to an anonymous position in the community, nor in extravagant gestures by way of defiance of the community. The 'new responsibility' of the profession—and of the institute—is after all an old one. It lies simply in full use, development and improvement of the abilities now existing in the profession, to the fullest capacity of each individual, for the sober and important purpose of developing—and redeveloping—the communities men live in."

Carl Robertson of the Unit Masonry Association of Seattle, who doubled as PA&B photographer at the Gearhart sessions, suffered an attack of appendicitis during his trip home on Sunday and underwent an operation the following day.



WEST COAST EDITORS Proctor Mellquist of Sunset, Robert E. Koehler of Pacific Architect and Builder, Francis W. Brown (moderator) of Western Building and Elisabeth K. Thompson of Architectural Record discuss "Selling the Architect." Other panelists, New York editors John Knox Shear and Thomas H. Creighton, are seen in photo on page 9.

At Coronado: planning and structure (Cont'd from p. 8)

Among the actions taken by the council's board of directors were these:

- Presented a plan for action at the grass root level to obtain the informed support of state legislators for the objectives of the architectural profession.
- Instructed its president to inform the California Association of Public School Building Officials that the council will continue school contract studies through the school building committee, provided that CAPSBO appoint a state level committee of its own for this purpose and that any material resulting from the studies be subject to approval by both organizations' board of directors before distribution.
- Directed the administrative committee to continue investigation of a possible group Workmen's Compensation insurance plan for California AIA members and to submit a proposal for institution of a plan at the organization meeting of 1958 directors. Preliminary study has indicated that a group plan might result in substantial premium savings to both large and small architectural offices.

11.6% of nation's architects registered in California

Registered architects in California as of October numbered 2,791, or 11.6% of the national total. Based on population figures, this is about 66% greater than the U.S. average, it is reported by the State Board of Architectural Examiners, headed by C. J. Paderewski of San Diego.

A review of written examination results show that 116 candidates, or 33% of those qualified, successfully completed the test in December 1956, while 101 candidates, or 23.8% did so last June.

In the years 1955-56 California has given 21.7% of all examinations given in the nation (NCARB report).

State records reveal that 88% of all candidates who are fully qualified pass all phases of the written examination in five or less attempts; 64% in three or less. The board, following a public hearing, has adopted a rule making it mandatory that an applicant, after he is fully qualified to take the complete examination, shall receive passing credit in all sections in no more than five attempts. Failure to do so changes the applicant's status to that of a new candidate.

Construction News Bulletin

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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

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

OREGON

SCHOOL ADDITION— Beaverton, Ore.

Bond election for $88,000 will be held November 25 by McKay School District No. 18, Washington County, Florence L. Bradford, clerk, Route 1, Beaverton, for construction of classroom and cafeteria addition to McKay School, and for cafeteria equipment. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. A similar bond issue was defeated last June.

WB 11-5. Previous report 6-22

▲GRADE SCHOOL— Beaverton, Ore.

Bids received by Beaverton School District No. 48, Madeline Hummel, clerk, C. E. Mason School, Center St., Beaverton, for construction of a ten-classroom, one-story, 32,000 sq. ft., masonry grade school located one-half mi. southeast of Cedar Hills Shopping Center on Burbank Road. Plans by James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. Bids opened November 11. LOW BIDS: Sterner Construction Co., 13845 S.E. Rhine St., Portland, $404,778; St. Pierre & Vermilyea, 10505 N.E. Beech, Portland, $409,350; James S. Hickey, Inc., Box 2135, Portland, $410,187.

Concrete slab floor; SCR masonry exterior walls; aluminum sash; glued laminated beams; built-up roof; asphalt tile, terrazzo flooring; oil-fired hot water heating system; asphaltic paving and roadway work.

WB 11-13. Previous report 10-30

MUSEUM-LIBRARY— Burns, Ore.
(Estimated cost $80,000)

A funds raising campaign for the proposed Harney County museum and library at Burns will be launched soon. More than half of the above cost has already been donated or pledged. SC 11-9

▲HEATING SYSTEM— Burns, Ore.

Bids received by U. S. Air Force, Procurement Office, Geiger Field, Wash., for installing a hot water heating system in nine buildings, 634th AC&W Squadron, Burns, Ore.; IFB 58-21. Bids opened November 7. LOW BID: Beaver Plumbing & Heating Co., 419 S.W. 1st, Beaverton, $42,514. OTHER BIDDERS: Harry Lewis Plumbing & Heating Co., 1904 W. 5th, Spokane, Wash., $43,216; Harney Homes, Burns, $46,444; Roberts-Inman, Inc., N. 1418 Division, Spokane, $50,916; Copenhagen, Inc., 4949 S.E. 26th, Portland, $55,570; Senna Service, Inc., 732 N. Napa, Spokane, $57,257; Lord-Carroll Co., 4735 S.E. Milwaukie, Portland, $61,860; Intermountain Co., Box 1652, Boise, Idaho, $62,388.

LL 11-9. Previous report 11-2

■HOUSING UNITS, SITE DEVELOPMENT Burns, Ore.

Additional planholders announced on construction of 25 housing units at Burns, Ore. Bids are being opened at 2 p.m., November 26 by Procurement Office, Geiger Field, Spokane, Wash. on the above Burns, Ore. housing units and on 27 housing units at Cottonwood, Idaho; IFB 45-614-58-16. Plans call for site development and utilities as well as housing construction.

Additional planholders: Bennett & Hickey, Box 1013, Burns; Joe Stebla, 12319 E. Broadway, Spokane, Wash.; R. L. Greene, 3503 N.E. Broadway, Portland; Coast Ventures Inc., 2485C American Ave., Long Beach, Calif.; E. L. Kolbar, E. 10821 Valleyway, Spokane; Lord-Carroll, 4507 S.E. Milwaukie, Portland; J. O. Young & Sons, Box 52, Nampa, Idaho; Dunham Contracting Co., Box 42, Moscow, Idaho; White Bros. Co. and Earl LeRoy Kelly, 119 Leonard St., Walla Walla, Wash.; J. W. Copeland Yards, Burns; McCormack Construction Co., 128 S.E. 1st, Pendleton; Potlatch Construction Co., Box 2148, Spokane; Griewing & Westermeier, Grangeville, Idaho; Cooley-Wolsborn Construction Co., 1130 S.E. 122nd, Portland; Technical Constructors, Inc., Box 2488, Dallas, Tex.; Max A. Boesiger, 185 E. 2nd N., Mountain Home, Idaho; J. H. Wise & Son Inc., 900 E. Park Blvd., Boise; Harold F. Weatherhead, 788 W. Washington, Burns; Frank Dunham Co. and A. C. Grant Construction Co., 2630 W. Bruneau, Kennewick, Wash.

DC 11-12. Previous report 10-29. Geiger AFB

▲ARMORY BUILDING REMODELING— Coos Bay, Ore.

Bids received by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for alterations to the U.S. Army Reserve quarters at 549 S. Broadway in Coos Bay; ENG-45-108-58-18. Bids opened November 7.

Remodel existing facility including adding partitions on 1st and 2nd floors; adding shelving, workbench, bulletin boards, platforms, sign, vented wood sash, concrete ramp, security window screens, venetian blinds, wood doors and hardware, painting, new heating system; exhaust fan, interior wiring.

LOW BIDS: Sig Andersson, 1371 Bayview Ave., North Bend, $10,998; Donald W. Thompson, 3421 Stanton, North Bend, $11,493; Thompson & Georgeson, Inc., Box 2108, Portland, $11,987. Government estimate, $13,150.

SP 11-8. Previous report 10-31

LIBRARY ADDITION— Corvallis, Ore.

A preliminary study has been authorized by City Council, City Hall, Corvallis, for an addition to the city-county public library at Corvallis. SC 10-31

PHYSICS-CHEMISTRY BUILDING— Corvallis, Ore.
(Estimated cost $4,300,000)

E. B. Lemon, dean of administration, Oregon State College, Corvallis, has reported that the college international house will be razed in preparation for construction of the first wing of a five-story physics-chemistry building (to be constructed in three units) on the campus in Corvallis. The first wing is estimated to cost $2,227,000, $457,000 of which has been granted by the U. S. Public Health Service. SC 11-8. Previous report 8-22

TRAINING CENTER— Corvallis, Ore.

Bids will be opened about December 20 by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of a reinforced concrete 11,600 sq. ft. Army Reserve training center at Corvallis; ENG-45-108-58-34. Specifications with above office.

Concrete slab on grade; five-ply built-up roofing and metal decking supported on open web steel joists in main section, and by glued laminated beams and steel joists in assembly room; brick veneer facing. Also included is a reinforced concrete 2,500 sq. ft. maintenance shop with brick facing and built-up roof on wood joists. Work includes installation of electrical and mechanical systems and the construction of parking areas, concrete walks and connections to existing untilities. SP 11-12

●HEATING PLANT IMPROVEMENTS— Corvallis, Ore.

Bids will be opened 2 p.m., December 3, at the Physical Plant Department, Oregon State College, Corvallis, for improvements to the heating plant involving repairs to Boiler No. 3 at the college. Plans available from the plant office, room 3, Benton Hall, Oregon State College, Corvallis. SC 11-12

EPISCOPAL CHURCH— Eugene, Ore.

Bids will be called soon for construction of the frame 30'x90' St. Matthews Episcopal

Church in the River Road area north of Eugene. Plans by Frank Hitchcock, architect, 877 Willamette St., Eugene. Vicar of the new church is Father William Rees. Structure will include glued laminated beams; built-up roofing; concrete basement floor, wood main floor; hot water heating system. DW 11-8

INSURANCE OFFICE BUILDING—
Eugene, Ore.

Bids will be called in December or January by Standard Insurance Co., 1180 Olive St., Eugene, for construction of a two-story with partial basement, 96'x36', reinforced concrete office building at 14th and Oak streets in Eugene. Working drawings underway by Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene. Some stone work is under consideration for construction.
SC 11-5

CITY HALL— Eugene, Ore.
(Estimated cost $1,000,000)

The City Council finance committee, Harold Edmunds, chairman, City Hall, Eugene, has recommended that a bond issue be presented to voters in 1958 for financing a new city hall at Eugene. The site would be selected prior to the election. Ten fifth-year students at the University of Oregon School of Architecture are studying site and space requirements for the proposed structure, and will execute architectural designs for the building as a class problem. The studies will be used by city officials in planning the city hall. DW 11-8. Previous report 9-14

COURTHOUSE REMODELING—
Klamath Falls, Ore.

Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls, have been retained by Klamath County Commissioners, Courthouse, 2nd and Main St., Klamath Falls, to prepare plans and specifications for remodeling the Klamath County Courthouse to provide an additional 20'x45' equity courtroom. Plans call for removing partitions to four 8'x8' cells which were previously part of the county jail and are not in use, and enlarging the 50'x50' room now used for the county law library. Bookshelves will be extended to the ceiling and a vault type library is planned, with the relinquished space being used for the courtroom. Plans will be presented to the court in December.
ZZ 11-8

SCHOOL CONSTRUCTION— Medford, Ore.

Bond issue for $1,786,000 was approved in the November 5 election held by Jackson County School District No. 549C, Administration Bldg., 500 Monroe St., Medford, to finance a two-year school construction program for the district.

Largest single unit to be financed will be the additions to the high school, a project involving eight classrooms in one wing of the present building and up to 10 classrooms south of the shop-music wing. Preliminary plans are being prepared by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland.

Another project being financed by the bond issue includes two elementary schools in the eastern part of Medford. Preliminary plans are underway on the more northerly school by Jack Edson, architect, 44 N. Front, Salem; and for the other school by Wayne Struble, resident architect for the office of James L. Payne, 725 S. Commercial, Salem.

Smaller items to be planned for spring bidding include renovation of the multi-purpose room at West Side school, a classroom and dressing room addition at Roosevelt school, a shop-storage garage for the district's vehicles, and renovation of the shops at McLoughlin school. Other improvements, scheduled later, include science room, homemaking room, shop and five or six more classrooms at the high school.
SC 11-9

HARDWARE STORE— Medford, Ore.
(Estimated cost $60,000)

Plans have been completed by H. E. Mackie, architect, City Hall, Medford, for a store building at 245 S. Central Ave. for Acme Hardware, A. R. Manno, owner, 3 W. 6th St., Medford.

One-story, 52'x132'; concrete block walls; stucco veneer; clear span wood beams. Plans provide for off-street parking. DC 11-13

SCHOOL IMPROVEMENTS—
Monmouth, Independence, Ore.
(Estimated cost $130,000)

Bid call expected early in 1958 by Independence-Monmouth School District No. 13C, Polk County, Cliff Norris, superintendent, Independence, for construction of a four-classroom elementary school unit on campus of Oregon College of Education at Monmouth and extensive modernization of elementary school at Independence. Plans underway by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Remodeling will include elimination of some partitions to add space in classrooms; leveling auditorium floor to provide multi-purpose room; remodeling kitchen facilities for cafeteria use; installation of new classroom lighting system; revamping heating system, including installation of controls; acoustical tile ceilings; asphalt tile on some floors. WB 11-1

STORAGE FACILITIES— Ordnance, Ore.

Bids will be opened about December 19 by Corps of Engineers, Walla Walla district, Bldg. 603, City-County Airport, Walla Walla, for liquid propellant storage facilities, Umatilla Ordnance Depot, near Ordnance, Ore.; ENG-45-164-58-11. Specifications with above office. $100 deposit.

Work includes but is not limited to construction of the following: (1) Change house—concrete foundations; slab on grade; masonry block walls; steel joists; reinforced concrete roof slab; oil-fired forced hot water heat; 2,500 sq. ft. area. (2) Two fuel storage buildings—structural steel frame, corrugated metal siding and roofing; about 1,600 sq. ft. each. (3) Acid storehouse—structural steel frame; corrugated metal siding and roofing; about 1,600 sq. ft. (4) Acid storehouse—structural steel frame; corrugated metal siding and roofing; 4,900 sq. ft. (5) Railroad loading dock—reinforced concrete; about 20'x77'; about 300' railroad track. (6) Acid and aniline disposal pits. (7) Vehicle cleaning pad—portland cement pavement. (8) Gravel and double bituminous surfaced roadways. (9) 1,000' of 8" water main, 1,400' of 6" and smaller water main, septic tank, 6" sewer, drain tile disposal field. (10) Aerial electrical distribution system extension, transformers. (11) Fencing (4-strand barbed wire) and gates. (12) Gravel stabilized fire breaks. SP 11-12

●CAMPGROUND TABLES—Parkdale, Ore

Bids will be opened 11 a. m., November 26, by U. S. Forest Service, Frank Walisch, regional supply officer, room 114, 729 N.E. Oregon St., Portland, for 50 campground tables with western red cedar table tops and seats, fob Parkdale; Inv. 175. WB 11-9

WAREHOUSE— Pendleton, Ore.
(Estimated cost $22,000)

Construction will start soon on a new warehouse at 605 S.W. Emigrant in Pendleton for owner Harold Rees of Pendleton. The new structure will replace one which was destroyed by fire. SC 11-8

▲HIGH SCHOOL— Pendleton, Ore.

Bids received by Pendleton School District No. 16C, Wallace McCrae, superintendent, 229 S.W. 1st, Pendleton, for construction of a one- and two-story 107,000 sq. ft. senior high school on the present Pendleton Club site on N.W. Carden Ave. in Pendleton. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Bids opened November 6. GENERAL—LOW BID: Paul B. Emerick Co., 4540 S.E. 175th, Portland, $1,128,000. OTHER BIDDERS: McCormack Construction Co., S.E. 3rd and Goodwin streets, Pendleton, $1,150,818; H. Halvorson, Inc., Box 6, Yardley, Wash., $1,193,417; Donald M. Drake Co., 1600 N.W. Savier, Portland, $1,215,000; B-E-C-K Constructors, Inc., 3647 Stone Way, Seattle, Wash., and Jensen-Rasmussen & Co., Box 89, Sunnyside, Wash., $1,217,800 (joint venture); A. Ritchie & Co., Box 253, Walla Walla, Wash., $1,232,666; Lewis Hopkins Co., 221 S. 3rd St., Pasco, Wash., $1,274,321; Henry George & Sons, Hutton Bldg., Spokane, $1,288,413; Johnson-Busboom-Rauh, N. 601 Cedar, Spokane, $1,228,413; E. H. Moore & Sons, San Francisco, Calif., $1,514,000. MECHANICAL (Selection of alternate may affect order of bidding in this contract)—LOW BID: P. S. Cook Co., 907 S.E. 3rd St., Pendleton, $389,378. OTHER BIDDERS: R. A. Twiss, 506 E. 2nd, The Dalles, $394,204; Lent's, Inc., 279 4th St., Bremerton, Wash., $404,500; W. R. O'Rourke, 339 S. 2nd, Walla Walla, $414,321; Intermountain Co., Box 1652, Boise, Idaho, $415,532; J. P. Head Plumbing and Heating, Box 956, Pasco, $420,000; Warren, Little & Lund, W. 120 2nd, Spokane, $426,800; James Smith Plumbing and Heating, N. 216 Division, Spokane, $436,218; Arnold & Jeffers, N. 1309 Ash, Spokane, $442,116; Ward Plumbing and Heating, Pendleton, $482,000. ELECTRICAL—LOW BID: Vaughan's Electric, 108 S.E. Court, Pendleton, $154,500. OTHER BIDDERS: Ace Electric, 3525 N.E. Broadway, Portland, $155,841; Tice Electric, 2139 S.E. Belmont, Portland, $158,380; Power City Electric Co., N. 920 Howard, Spokane, $161,500; Electric Smith, Inc., E. 123 Sprague, Spokane, $161,816; Royal Co., Box 166, Kennewick, Wash., $172,730; F. C. Wood Co., 2150 N. 1st, Hermiston, $182,025.
SC 11-8. Previous report 10-17

★HIGH SCHOOL— Pendleton, Ore.

Awards announced by Pendleton School District No. 16C, Wallace McCrae, superintendent, 229 S.W. 1st, Pendleton, for construction of a one- and two-story 107,000 sq. ft. senior high school on the present Pendleton Club site on N.W. Garden Ave. in Pendleton. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. AWARDS—GENERAL: Paul B. Emerick Co., 4540 S.E. 175th, Portland, $1,128,000. The school district reserves the right to exercise some alternates. MECHANICAL: R. A. Twiss, second low on basic, 506 E. 2nd, The Dalles, $415,352 (basic plus additive for rock and common excavation). ELECTRICAL: Vaughan's Electric, 108 S.E. Court, Pendleton, $154,500.

Reinforced concrete footings and foundation; poured concrete block, metal walls; concrete slab floors; concrete beams, columns; flat roof, thin shell concrete barrels; masonry partitions; concrete beams, col-steel, aluminum windows; exposed masonry, metal lath and gypsum lath partitions; asphalt tile, ceramic tile, terrazzo flooring; acoustical ceiling; wood and steel doors; folding doors; refriferation; sprinkling systems; blackboards; fire doors; rigid board insulation in roof; low pressure steam heating system, gas fired; unit vents.
SC 11-12. Previous report 11-8

CLASSROOM WING— Portland, Ore.

Footings have been poured for a second classroom wing at Jesuit High School, 9000 S.W. Beaverton-Hillsdale Highway, Portland, but the main construction will not start before January 1 and may be delayed another year, according to Father M. I. Wilhelm, S. J., supervisor. Plans for the wing are underway by John W. Maloney, architect, 754 Central Bldg., Seattle.

Wing will duplicate north classroom wing and will contain chemistry and physics laboratories, study hall and seven classrooms. Reinforced concrete construction; aluminum windows; wood frame roof.
WB 11-8

★WHEAT STORAGE— Portland, Ore.
(Estimated cost $140,000)

Construction will begin soon by Hallidie Bldg. Div. of Hallidie Machinery Co., 1915 N.E. Union Ave., Portland, and Haskins Co., Spokane, on a 250,000 bushel wheat storage facility at Terminal Flour Mills, Terminal No. 4, Foot of N. Burgard St., Portland. A warehouse at the terminal is being removed to prepare space for the facility, which is to be completed by late January. The tanks will be connected to present facilities by a tunnel with belt conveyor system under the tanks. Butler-type bolted steel tanks will be used. WB 11-8

COVERED LOADING FACILITY—
Portland, Ore.

Construction started by owner - builder, City Galvanizers Co., 818 N. Russell St., Portland, for an L-shaped, 6,500 sq. ft. covered loading and storage area with access from Russell and Albina streets. Plans by

Stan H. Lowy & Associates, consulting engineers, 447 Sherlock Bldg., Portland. Some sub-contracts have been let; steel bids are being prepared. Structure will use galvanized iron roofing and will be around an open court. WB 11-8

★**OYSTER PLANT—** **Portland, Ore.**
(Estimated cost $70,000)

Contract let to William Wechner, 214 N. Russell St., Portland, by Rose City Oyster Co., 326 S.W. Taylor St., Portland, for construction of a reinforced concrete oyster processing plant at 1502 S.E. Morrison St., Portland. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Concrete slab floor; reinforced concrete walls; concrete slab roof; built-up roofing; aluminum sash; a number of cast-in-place concrete tables and working surfaces; considerable stainless steel. Building will include three refrigeration rooms, sterilizing space, small retail outlet; off-street parking; truck loading facilities. WB 11-8

●■ **TELEPHONE BUILDING ADDITION— Portland, Ore.**

Bids will be opened 2 p. m., November 19, by Pacific Telephone & Telegraph Co., C. M. Twelves, chief engineer for Oregon, 406 Lincoln Bldg., Portland, for construction of one-story and basement, 60'x30' reinforced concrete addition to CHerry central office building at 2772 S.W. Troy St., Portland. Select list of bidders.

Planholders: Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; A. V. Petersen Co., 2827 N.E. Glisan St.; Oscar R. Wayman, 3125 N.W. Front Ave.; Andersen & Westfall Co., Inc., 3427 N.E. Halsey St.; Smith-Phillips Co., 7402 S.W. Macadam Ave.; Henry M. Mason Co., 2206 N.E. Thurman St.; Sterner Construction Co., 13845 S.E. Rhine St.; James S. Hickey, Inc., 523 S.E. Stark St. Of Portland.

Building will house dial switching equipment and a new test center. Masonry exterior. WB 11-9

AMMUNITION STORAGE— Portland, Ore.

A 500 to 600-acre tract of farmland east of Portland air base has been recommended by Orville E. Ahern, Jr., city right-of-way agent, City Hall, Portland, as the only acceptable site which the city might buy to trade the U.S. Air Force for West Vanport. The air force planned to build an ammunition or rocket storage facility at West Vanport, but since the city wishes to develop West Vanport for an industrial tract, the air force offered to trade land if a suitable site could be found. The recommended tract is located between N.E. 158th and 185th avenues and Marine Drive and Union Pacific right-of-way. It is expected that the city planning commission will be asked to make a study as to how West Vanport could best be developed. WB 11-13

PLYWOOD PLANT— Roseburg, Ore.

Work is well underway on the U.S. Plywood Corporation's main building for a new plywood manufacturing operation at the plant at 612 N.E. Rifle Range Road in Roseburg. Additional structures and facilities are being started.

Ritter Roof Structures, 1220 S.W. Stark, Portland, has reported that about three weeks remain to complete the structure of the main building. The firm is handling trusses, purlins, roof deck, catwalks, fire curtains and some other items, as well as some remodeling in the existing plant. Parallel chord rod and timber trusses are being used, with major truss spans being 80' and 100' in length. Henry H. Miller Contractors, Inc., 2191 N.E. Stephens, Roseburg, is doing site work, and Umpqua Concrete Products, 1300 N.E. Stephens, Roseburg, is handling concrete work. The M. L. Sines Construction Co., 13340 S.E. Harold, Portland, is providing rail facilities.

Engineering work for Ritter Roof Structures was handled by Architect Harry L. Percy, Jr., and Sid Lathrop, civil engineer, both at 1975 S.W. 5th Ave., Portland. Project engineer on the site for U.S. Plywood is Frank Foystem, and George French is chief engineer for the company on the project.

Work is progressing on modernization of existing plant and on the construction of other facilities. Construction has just started on a fuel house building which will have steel columns and beams, and steel trusses, supporting conveyors and cyclones. Industrial Machine and Pump Co. is general contractor, with A. Young & Son Iron Works, 2300 N.W. Nicolai, Portland, furnishing structural steel and Soule' Steel Co., 2630 N.W. St. Helens Road, Portland, the siding, girts and purlins. Structural design was by Stan H. Lowry & Associates, consulting engineers, Portland.

Among features in the new plant are concrete steam vats, now being installed, which will steam logs before peeling, thus reducing wear on knives when peeling and reducing sanding costs. SC 11-13. Previous report 9-17

FAIRVIEW HOME BUILDINGS—Salem, Ore.

Bids will be called early in January by Oregon State Board of Control, William C. Ryan, secretary, 124 Capitol Bldg., Salem, for additions at Oregon Fairview Home near Salem, including a reinforced concrete 100-man capacity ambulatory cottage for men, a two-story, 38'x96', reinforced concrete outpatient clinic addition to the hospital, and the addition of an oil-fired boiler and a concrete with steel frame addition to the boiler house. Plans by Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene.

Preliminary drawings are also underway for a new type of semi-ambulatory cottage at the Home. Bids will be called later in the spring of 1958.

SC 11-5. Previous report 10-3

BAPTIST CHURCH— Salem, Ore.

A one and three-quarters acre site on Westfield St. in Silverton has been purchased by the First Baptist Church, Rev. V. L. Loucks, pastor, Silverton, for construction of a new church building. Construction will start next spring. SC 11-6

★**PARK IMPROVEMENTS— Salem, Ore.**

Awards announced by City Council, City Hall, Salem, for park improvements, including construction of seven comfort stations, six tennis courts and two wading pools in Salem. AWARDS — COMFORT STATIONS: R. L. Forster & Son, 2180 Wallace Road, Salem, $29,770. TENNIS COURTS: T. J. Pat-

Next time, stop at A HANDLERY HOTEL



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World's only outside glass elevator. Sky Room and Starlite Roof. Patio Swimming Pool. Drive-In Garage. from $7

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OTHER HANDLERY HOTELS
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OAKLAND Lake Merritt Hotel
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VALLEJO Casa de Vallejo Hotel
WOODLAND Hotel Woodland
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zer, 1960 Hy Ave., Salem, $18,780. WADING POOLS: Salem Sand and Gravel Co., 1405 N. Front St., Salem, $3,649.

The comfort stations will be erected at Highland Park, Fairmount, West Salem, Clarmount, River Road and Fairgrounds Playgrounds, and at Bush Pasture. Two of the tennis courts will be constructed at Highland Park and the remaining four at Bush Pasture. SP 11-9. Previous report 10-30

PRESBYTERIAN CHURCH— Salem, Ore.

Plans have been presented for approval to members of First Presbyterian Church, 430 N. Winter, Salem, for a new church plant to be constructed on the southwest corner of 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. SC 11-9. Previous report 6-25

▲PICNIC TABLES, RESTROOMS— Salem, Ore.

Bids received by Department of Finance and Administration, 1225 Ferry St., Salem, for furnishing 1" and 2" lumber and hardware for 100 picnic tables and six portable restrooms for Salem city parks. Tables and restrooms will be built by the park department. BIDDERS: Oregon Pulp and Paper Co., Front and Ferry streets, Salem, $2,891; Wallace Road Lumber Co., Wallace Road, Salem, $2,904; Portland Road Lumber Yard, Portland Road, Salem, $2,998. CP 11-13

COCKTAIL LOUNGE FIRE— Seaside, Ore.
(Estimated loss $22,000)

A fire early in November gutted the Embers cocktail lounge at 227 Broadway in Seaside but fire was kept from spreading to a restaurant and an apartment in the same concrete block building, according to owner Alexander Haralampus. SC 11-8

★GRADE SCHOOL ADDITION—Tigard, Ore.

Award to Harry G. Johnson, 7117 S.E. Main St., Portland, $19,894, by School District No. 82, Washington County, Mrs. Esther Pilkington, clerk, Durham Grade School, S.W. Durham Road, Tigard, for construction of two-story, reinforced concrete and frame addition to the school. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Playroom in daylight basement; one classroom and toilet facilities on main floor; covered play porch. Reinforced concrete basement; wood frame upper portion; glued laminated beams over basement; steel sash; glass block in a window wall; asphalt tile flooring; plaster walls; acoustic tile ceilings; playroom will be unfinished; oil furnace.
WB 11-9. Previous report 10-15

ELECTRICAL PLANT— Tigard, Ore.
(Estimated cost $250,000)

Construction underway by Monson & Sivers, general contractors, 5000 S.E. 25th Ave., Portland, on a 20,000 sq. ft. tilt-up concrete manufacturing plant on six and one-half acre site on Route 217 near Hunziker Road in Tigard, for R. T. & T. Co., Waukesha, Wisc. Building will have glued laminated beam roof and will be used for manufacturing electric power distribution transformers and other electrical distribution equipment.
WB 11-9

SCHOOL CONVERSION— Toledo, Ore.

Preliminary plans underway by F. Marion Stokes, architect, 205 Hughes Bldg., Portland, for conversion of existing Toledo High School for grade school purposes for Lincoln County School District, Marion Huff, superintendent-clerk, Court House, Newport. Work will include changing shops into classrooms, remodeling existing classrooms to make them suitable for grade school use, new toilet facilities, and either a new kitchen or remodeling of old kitchen.

WASHINGTON

★CHURCH, RECTORY— Bellevue, Wash.

Low bidder Riley Pleas, Inc., 522 19th N., Seattle, has withdrawn its bid of $617,031 because of an error in computation, for construction of the 19,500 sq. ft. Sacred Heart Catholic church and rectory on Clyde Hill in Bellevue. Award was made to second low bidder Cawdrey & Vemo, 3601 Fremont, Seattle, $708,974 (basic plus two alternates), by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle. Bids were opened October 31. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle.
PD 11-12. Previous report 11-2

MEDICAL DENTAL BUILDING— Bellevue, Wash.
(Estimated cost $45,000)

Preliminary sketches have been made and construction will be started about mid-December by W. R. Rounds & Associates, owner-contractor, 10300 N.E. 1st, Bellevue, on a one-story wood frame and stone 3,500 sq. ft. medical dental building on N.E. First St. and 103rd Ave. N.E., Bellevue. Plans which were prepared by W. R. Rounds & Associates call for office space for four physicians and four dentists. Details of construction will be determined by lessees' requirements. PD 11-6

CARL COZIER SCHOOL ADDITION— Bellingham, Wash.

Preliminary plans approved by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, for a four-classroom addition to the Carl Cozier Elementary School in Bellingham. Plans by Galen Bentley, architect, 1130 State St., Bellingham. Plans must be approved by the state before bids can be called.
ET 11-5. Previous report 1-4

STUDENT UNION BUILDING— Bellingham, Wash.
(Estimated cost $525,000)

Funds in amount of $475,000 have been approved by the Federal Housing and Home Finance Agency toward construction of a new student union building to be located in the 500 block on High St. in Bellingham, for Western Washington College of Education, Dr. W. W. Haggard, president, Bellingham. In addition, $50,000 will be appropriated from the student building fund. The state legislature early this year appropriated $72,000 for purchase of a site for the building which includes four lots at the north corner of High St. and Garden Terrace, across from the library and northeast of the music building, at Bellingham. Architects are Bindon & Wright, Hoge Bldg., Seattle. ET 11-8. Previous report 2-1

▲SHOWER REPLACEMENT— Blaine AF Station, Wash.

Bids received by U. S. Air Force, Purchasing and Contracting Office, Paine AFB, for replacing metal showers in Buildings 7, 8, 9, 18 and 19 in the airmen's dormitories at Blaine Air Force Station, Wash.; Inv. No. 45-602-58-13. Bids opened November 7. LOW BID: Lake Construction Co., 1801 35th St. S., Bellingham, $7,547. OTHER BIDDERS: Emil Olson Co., 2305 South St., Bellingham, $7,632; Lindbrook Construction Co., 21016 Five Corners Road, Edmonds, $9,885; Metropolitan Construction Co., 1008 Broadway, Everett, $12,800; Kermit Abelson, Blaine, $13,000; Haskell Plumbing and Heating, 1509 Cornwall, Bellingham, $14,272.

Work will consist of removing existing metal showers and concrete floors, removing paint from shower walls and ceilings, then covering walls, floor and ceiling with glass fabric and resin.
HH 11-9. Previous report 10-17

LUTHERAN CHURCH— Bothell, Wash.
(Estimated cost $105,000)

Working drawings will be started soon by architects Grant, Copeland & Chervenak, 420 E. Howell, Seattle, for a 455-capacity church on the site of existing structure at 2nd and Fir, Bothell, for First Lutheran Church, John Hopp, pastor. The existing church will be torn down, and the existing parish will be integrated with the new church building. Bids will be called in 1958, following financial arrangements by church building committee.
PD 11-5. Previous report 4-25

CATHOLIC CHURCH— Clarkston, Wash.

A fund raising drive will be held in February 1958 by Holy Family Catholic Church, Rev. Fr. Arthur Joda, pastor, Clarkston, to raise $150,000 to finance construction of a new church on property near the present site on Chestnut St. at 11th in Clarkston. Construction of the building has been approved by Catholic Diocese of Spokane. Most Rev. Bernard J. Topel, bishop, S. 317 Howard, Spokane. The present church will be razed and the grounds used for additional school playground space and parking. DR 11-1

ADMINISTRATION BUILDING— Edmonds, Wash.

Directors of Edmonds School District No. 15, Harold Silvernail, superintendent, Edmonds, have authorized the district's attorney to negotiate for purchase of two acres of property west of the new senior high school building as the site for a proposed district administrative building. SC 11-7

● ELEMENTARY SCHOOL—Edmonds, Wash.
(Estimated cost $500,000)

Bids will be opened 8 p.m., December 2, by Edmonds School District No. 15, Box 308, Edmonds, for construction of the new 20-classroom nine-building campus plan Westgate Elementary School in Edmonds. Plans with Dan Miller, architect, 420 Bell St., Edmonds.

The following description applies to all buildings: one-story and no basement; 34,000 sq. ft. total area; concrete slab on grade; pumice block exterior walls, frame interior walls; steel joists, acoustical panel roof; asphalt tile flooring; hot water heating system converted into warm air in each building. HH 11-8. Previous report 10-30

★GRANDSTAND— Edmonds, Wash.

Contract negotiated with Norge Construction Co., 5008 Admiral Way, Seattle, $65,000, by Edmonds School District No. 15, Box 308, Edmonds, for construction of a 2,000-seat grandstand at the new high school now under construction at Holmes Corners in Edmonds. Plans by Waldron & Dietz, architects, 208 Columbia, Seattle. Norge originally bid $73,690 (basic) and $103,790 (basic plus alts.) at the August 5 opening but plans were revised slightly to reduce the cost.
HH 11-8. Previous report 9-30

■ SCHOOL ADDITION— Eltopia, Wash.

Additional planholders announced for construction of a 30'x75' two-classroom addition to the Pioneer Elementary School building about 13 mi. north of Eltopia on the Pasco-Spokane Highway. Bids will be opened 8 p.m., November 20, in the office of the Superintendent, Eltopia School District No. 15, Old Eltopia Elementary School building, Eltopia. Plans with Charles A. Bayley & Associates, architects, 912 Elliott Ave. W., Seattle.

Additional Planholders: Jensen-Rasmussen & Co., Box 89, Sunnyside; Hale Construction Co., Box 782, Pasco; R. C. Haak Construction Co., Box 82, Connell; Patton-Patton & Hill, 612 W. Albany, Kennewick; Lewis Hopkins, 221 S. 3rd St., Pasco.

Tilt-up concrete panels (concrete block alternate); concrete slab-on-grade; built-up roofing, 3" t&g decking; glued laminated beams; wood sash; asphalt tile flooring; perforated acoustical tile ceilings; connection to existing heating system, unit ventilators.
SP 11-9. Previous report 11-1

★GARAGE— Enumclaw, Wash.

Award to Ed Brehm, 9486 N.E. 32nd, Bellevue, by Pacific Telephone and Telegraph Co., 1200 3rd Ave., Seattle for construction of garage and storage facilities at the corner of Shanklin Road and the Auburn-Enumclaw Highway in Enumclaw. Plans, which were prepared by Donald N. McDonald & Associates, architects, 719 2nd, Seattle, call for about 1,000 sq. ft. of office and storage room in the building, and about 2,200 sq. ft. of vehicle storage space in a carport type shelter. Completion time three months. The building will be of concrete blocks; the shelter will be supported by heavy beams and have an aluminum roof.
DM 11-12

POST COMMISSARY— Fort Lewis, Wash.

Bids will be opened about December 19 by Corps of Engineers, Seattle office, 4733

E. Marginal Way, Seattle, for construction of a 36,205 sq. ft. Post Commissary building and utilities at Fort Lewis; ENG-45-108-58-35. Specifications with above office. Completion time 365 days.

Reinforced concrete foundations and floors; reinforced concrete frame structure with concrete block wall; concrete roof slab "folded" and flat. Work includes installation of steam heating system, ventilation, air conditioners, cooling and refrigeration equipment, show cases and lighting; construction of adjacent asphaltic concrete paved parking areas; installation of parking areas and street lighting systems; construction of storm sewer, sanitary sewer, water and electrical services. SP 11-12

●BUILDING REMODELING—
Fort Worden, Wash.

Bids will be opened 3 p. m., November 21, by Director Garrett Heyns, General Administration Bldg., Olympia, for remodeling of Bldg. Nos. 202 and 203 at Fort Worden, Port Townsend. Specifications with John B. Firmin, supervising engineer of the department. SC 11-8

▲AIRCRAFT SHELTER—Geiger Field, Wash.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of 90'x423' four-pocket ready fighter aircraft shelter on an existing slab at Geiger Air Force Base; ENG-45-108-58-22. Bids opened November 7.

Work involves erecting the shelter using government-furnished structural steel, hangar doors and other material. Roofing will be five-ply built-up and siding of corrugated metal. The government will furnish 721,300 lb structural steel, including trusses, door tracks, structural shapes, handrails, anchors, fasteners and ladders, and 302,000 lb. hangar doors and mechanical equipment. The steel is being furnished under government contract with Pacific Iron & Steel Corp., Los Angeles, Calif. The material will be provided fob rail cars at the Great Northern railway siding at Geiger AFB.

LOW BIDS: H. Halvorson, Inc., Box 6, Yardley, $219,317; Walter G. Meyers & Sons, Box 5011, Spokane, $222,747; Purvis Construction Co., Box 64, Yardley, $224,290. Government estimate, $240,000. Nineteen bids received. SP 11-8. Previous report 10-12

★BUILDING ADDITION, ALTERATION—
Geiger Field, Wash.

Award to Warner & Brown, 2904 N. Madelia, Spokane, $5,990, by U.S. Air Force, Procurement Office, Geiger Field, for construction of an addition to Bldg. 1101 and furnishing and installing a paint spray booth for that building at the base; IFB-45-614-58-27. Bids opened November 5. OTHER LOW BIDS: Hilton-Lawrence, N. 41 Gray, Spokane, $6,520; Edward Kolbar, E. 10821 Valleyway, Spokane, $6,550.

LL 11-8. Previous report 10-23

★ROOF REPAIR— Geiger Field, Wash.

Award to Anton J. Popp Construction Co., E. 2710 Garland, Spokane, $4,924, by U.S. Air Force, Procurement Office, Geiger Field, for repairing the roofs on Buildings 1080, 1072 and 1076 at the base; IFB-45-164-58-26. Bids opened November 5. OTHER LOW BIDS: Warner & Brown, 2904 N. Madelia, Spokane, $5,796; P & B Co., Inc., E. 8903 Main, Spokane, $7,380.

LL 11-8. Previous report 10-23

▲PAINTING BUILDINGS—
Geiger Field, Wash.

Bids received by U.S. Air Force, Procurement office, Geiger Field, for painting Celotex covering with fire retardant paint in 23 buildings at Geiger Field; IFB-45-614-58-22. Bids opened November 6. LOW BID: A & F Painting Co., 3844 E. 16th, $6,240. OTHER BIDDERS: Charles Stapleton & Son, N. 603 Ash, $6,000; S. H. Lewis, 2611 W. Broad Ave., $7,300; Richards Decorating Co., W. 917½ Mallon, $7,650; Springer Paint Co., W. 2104 13th, $10,300; Victor Finrow, 728 N. Cook, $11,684. Of Spokane.

LL 11-9. Previous report 10-16

HIGH SCHOOL— Granger, Wash.

Selection of a site for the proposed high school building at Granger will be delayed pending determination of the highway relocation route through Granger, according to Joseph Temby, superintendent, Granger School District No. 204, Yakima County. Architect John S. Villesvik, 109 N. 3rd St., Yakima, is consulting with school directors in the site selection.

SC 11-7. Previous report 10-4

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

Bids will be called in January by Kahlotus School District No. 56, Carl Johnson, superintendent, Kahlotus, for construction of a new masonry and glass grade and high school plant which will include an elementary school, a high school, a farm and industrial arts shop, a multipurpose-cafeteria-auditorium unit and a central heating plant. Plans underway by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Buildings will have concrete slab floors, built-up roofing and electric or oil heating system. SP 11-6. Previous report 11-5

●PARISH HALL— Kent, Wash.

Bids will be opened 2 p. m., November 26, by Catholic Archdiocese of Seattle, Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle, for construction of a one-story, 45'x102', frame parish hall building in St. Anthony's parish at Kent. Plans with James M. Klontz, architect, Dexter Horton Bldg., Seattle.

The building will contain a meeting hall with stage, dressing rooms and kitchen facilities. Construction will be slab on grade; brick veneer; glued laminated beams; t&g decking, built-up roofing; aluminum sash; gypsum board and plywood interior finish; vinyl asbestos tile flooring; hot air heating system. SC 11-9

CHURCH— Longview, Wash.

Working drawings have been completed by Ben F. McAdoo, Jr., architect, 1718 Olive Way, Seattle, for a one-story and daylight basement, 9,500 sq. ft. church to be located on the corner of 17th and Kesler in Longview, for Seventh Day Adventist Church, Raymond F. Bresee, pastor, 1052 Douglas, Longview. The church will contract the work and construction will start the first week in December.

Glued laminated arches; shingles on gable roof; t&g decking; rigid insulation in roof; colored glass, native stone exterior; windows set in wood sash, metal vents; hardwood veneer and plaster partitions; vinyl tile flooring, some carpeting; gas-fired hot air or hot water heating system. Church members may act as contractors.

PD 11-13. Previous report 10-2

★ELEMENTARY SCHOOL ADDITION—
Marysville, Wash.

Awards announced by Marysville School District No. 25, Superintendent's Office, Senior High School Bldg., Marysville, for construction of a one-story 12,000 sq. ft. addition to Shoultes Elementary School. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARDS—GENERAL: Frank Damson, Route 2, Everett, $115,816. MECHANICAL: Commercial Sheet Metal Works, Inc., 4213 Rucker, Everett, $38,216. ELECTRICAL: McInnis Electric Co., 221 State St., Marysville, $11,200.

One-story, concrete slab-on-grade; steel frame, bar joist, 3" t&g roof deck; flat built-up roof; masonry exterior; plaster partitions; asphalt, ceramic tile flooring; metal sash; acoustical ceilings; hot water heating, unit ventilators. The contract will include construction of asphaltic concrete playcourt and parking area.

HH 11-13. Previous report 11-2

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

Working drawings are nearing completion by Bassetti & Morse, architects, Tower Bldg., Seattle, for a one-story multi-purpose building addition to the high school at 4138 92nd S.E. on Mercer Island. Bids will be called in January, 1958, by Mercer Island School District No. 400, Box 215, Mercer Island.

Masonry walls; concrete thin-shell roof; concrete slab-on-grade. Plans include a general purpose room, combined auditorium and cafeteria, small stage, kitchen, toilet facilities. PD 11-13. Previous report 9-26

LIBRARY, COURTHOUSE ANNEX—
Montesano, Wash.

Grays Harbor County Commissioners, Courthouse, Montesano, have been requested to go into partnership with the city of Montesano and the rural district library to finance construction of a combination courthouse annex and rural library. It is proposed that a $70,000 memorial fund be combined with a county bond issue and rural library funds to finance the proposed project. SC 11-5

CHURCH— Montesano, Wash.
(Estimated cost $55,000)

Bids may be called in January, 1958, by Presbyterian church, Montesano, for construction of a 37'x74' sanctuary and a 46'x62' Sunday school wing which will represent the first unit of a new church plant in Montesano, located on a three-acre

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site in the northern section of the city, south of McBride Ave. The one-story building will have a shake-covered gable roof; cedar exterior; wood, some metal sash; plaster partitions; asphalt tile flooring; oil-fired hot water heating. Plans include a temporary kitchen and toilet facilities. Financial arrangements will determine when bids will be called. Plans by Rolland Denny Lamping, architect, 1314 E. John, Seattle.

PD 11-5. Previous report 9-24

ELEMENTARY SCHOOL—Montesano, Wash.

A bond election may be held in December by Montesano School District No. 124, 124 Spruce E., Montesano, on a $350,000 to $400,000 bond issue to finance construction of a 12-classroom elementary school at Wheeler Field and remodeling of the existing high school building at Montesano. Preliminary plans were prepared by E. L. Mills & Associates, architects, 308 S. Tacoma, Tacoma. SC 11-7. Previous report 6-8

ELEMENTARY SCHOOL—Montesano, Wash.

Preliminary drawings are underway by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma, for the one-story 12-classroom elementary school for Montesano School District No. 124, 418 Spruce E., Montesano. The structure will be built at Wheeler Field in Montesano.

PD 11-12. Previous report 11-7

APARTMENT BUILDING— Mountlake Terrace, Wash.

Plans announced by owner Jack Peterson of Mountlake Terrace for construction of a two-story 20-unit apartment building on 232nd St. S.W., west of 58th Ave. W., in Mountlake Terrace. Plans are now underway and it is hoped construction can start early in 1958. An additional 80 units may be constructed later. SP 11-12

SCHOOL ADDITION— Mukilteo, Wash.

Bond issue for $120,000 failed due to too few voters in the November 5 election held by Mukilteo School District No. 6, Mukilteo, to raise funds to finance construction of a five-classroom addition to Olympic View Junior High School at Mukilteo. This same bond issue was defeated early last summer. SC 11-13. Previous report 6-4

▲SHOWER REPLACEMENT— Neah Bay AF Station, Wash.

Bids received by U.S. Air Force, Purchasing and Contracting Office, Paine AFB, for replacing metal showers in the airmen's dormitories at Neah Bay Air Force Station, Wash.; Inv. No. 45-602-58-14. Bids opened November 7. LOW BID: Olympic Builders, Sequim, $8,392. OTHER BIDDERS: DelGuzzi, Inc., 1020 E. Front, Port Angeles, $8,555; Lindbrook Construction Co., 21016 Five Corners Road, Edmonds, $9,050; Owens Bros., Railroad and Oak, Port Angeles, $10,250; Metropolitan Construction Co., 1008 Broadway, Everett, $15,800.

Work consists of replacing metal showers in four buildings by removing existing metal showers and concrete floors, removing all paint from the shower walls and ceilings and then covering walls, flood and ceiling with glass fabric resin.

HH 11-9. Previous report 10-16

CAPITOL EXPANSION— Olympia, Wash.

The Washington State Capitol committee has approved preparation of plans for a parking garage, a parking lot and for completion of the top two floors of the General Administration Building at Olympia. The committee retained Paul Thiry, architect, 800 Columbia, Seattle, as architectural consultant. Thiry will draw a comprehensive plan for long range development and expansion of the State Capitol grounds, and present it to the committee. Building, parking and street problems will be studied.

The capitol committee authorized the Department of General Administration to proceed with preparation of plans, under direction of Warren A. Brown, department engineer, for a three-level parking garage, for a temporary parking lot, and for completion of the upper two floors of the General Administration Building. SC 11-7

SUPERMARKET— Omak, Wash.

Construction will start soon on a new 7,000 sq. ft. supermarket to be located immediately north of the existing Darrell's Drive-in Market in Omak, for owner Darrell Ferguson. The site of the present store will become a paved parking lot. SC 11-8

ELEMENTARY SCHOOL— Opportunity, Wash.

(Estimated cost $335,297)

Bids will be called in the spring of 1958 by Opportunity School District No. 356, Gilbert Mills, superintendent, N. 607 Pines Road, Opportunity, for construction of a 12-classroom elementary school at Opportunity. Plans by Victor Louis Wulff, architect, W. 1526 Riverside Ave., Spokane.

SC 11-8. Previous report 1-24

JUNIOR HIGH SCHOOL— Opportunity, Wash.

(Estimated cost $837,630)

Bids will be called in the spring by Central Valley School District No. 356, Gilbert Mills, superintendent, N. 607 Pines Road, Opportunity, for construction of a 52,000 sq. ft. junior high school on S. Bowdish St. in Opportunity. Plans by Victor Louis Wulff, architect, W. 1526 Riverside, Spokane.

SC 11-8. Previous report 8-9

SCHOOL ADDITIONS— Opportunity, Wash.

(Estimated costs $90,981 high, $85,125 elementary)

Preliminary plans will be submitted to the state soon by Victor Louis Wulff, architect, W. 1526 Riverside, Spokane, for a six-classroom addition to Central Valley High School and a six-classroom addition to the Greenacres Elementary School in Opportunity. It is hoped construction can start next spring, according to Gilbert F. Mills, superintendent, Opportunity School District No. 356, N. 607 Pines Road, Opportunity. SC 11-8

METHODIST CHURCH— Oroville, Wash.

Fund drive underway to finance construction of the First Methodist Church in Oroville, for which working drawings will be prepared in spring of 1958 by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. SP 11-6. Previous report 6-8

TRAIN DEPOT REMODELING— Othello, Wash.

Work will start soon at the Milwaukee depot at Othello on an expansion and improvement program, according to agent Verle Bell. The remodeling work includes lowering of the ceiling throughout the building, tiling of all floors, replacing all windows with new glass, expanding the business office, reducing the size of the waiting room and cafe to make more compact areas, and increasing space in the express storage room. The new express room will be large enough to accommodate six or seven trucks. The cafe will be reduced to about half its present size, with many of the inner partitions to be removed. SC 11-6

★LINE HEADQUARTERS BUILDING— Poulsbo, Wash.

Award to Anderson Construction Co., 1312 13th, Bremerton, $58,664, by Puget Sound Power and Light Co., Seattle, for construction of a 45'x50' concrete and concrete block, one-story line headquarters building two mi. north of Poulsbo on highway No. 21, between Lofall and Poulsbo. Construction is to start by mid-November, with completion in 120 days. Building will be of concrete and concrete block. OTHER BIDDERS: Commercial Builders, 114 Shore Drive, Bremerton, $60,434; Linden Construction Co., Box 109, Bremerton, $61,667; John H. Sellen Construction Co., 228 9th Ave. N., Seattle, $68,508; Lease Co., Inc., 1501 N. 35th, Seattle, $75,007; Sound Construction and Engineering Co., 1300 Aloha St., Seattle, $84,209. Plans by Harmon, Pray & Detrich, architects, Lloyd Bldg., Seattle. PD 11-12

PLANT SCIENCES BUILDING— Pullman, Wash.

Bids may be called about mid-January, 1958, by Washington State College, Pullman, for a four-story and basement, 175,000 sq. ft. reinforced concrete, Class A, Plant Sciences building on the campus. Working drawings are underway by architects, Jones, Lovegren, Helms & Jones, 706 Republic Bldg., Seattle. A mechanical penthouse is included in the plans.

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 dry-wall or plaster partitions; asphalt tile, ceramic tile, terrazzo flooring; rigid insulation in roof, rigid and batt insulation in walls.

PD 11-1. Previous report 6-11

PHYSICAL EDUCATION BUILDING— Puyallup, Wash.

(Estimated cost $500,000)

Working drawings will start about mid-December by Robert Billsbrough Price, architect, 2907 A St., Tacoma, for construction of a 189'x148'x35' physical education building on a site on 7th and Main streets, across from the high school, at Puyallup. Bids will be called by Puyallup School District No. 3, Paul B. Hanawalt, superintendent, 605 W. Main, Puyallup.

Plans call for four teaching stations in the building, two on the 96'x108' main floor (which can be subdivided by a folding partition into two 57'x96' areas), and two smaller balcony areas which will be 40'x56' each. Recessed bleachers seating about 3,000 person will be pulled out when the main floor is used for basketball games or community events. Construction plans tentatively call for reinforced concrete walls, glued laminated wood beams; plastic windows on lower floor; brick veneer exterior. Two large shower rooms and storage areas will be provided.

PD 11-12. Previous report 9-5

HOSPITAL— Quincy, Wash.

Approval of the proposal to withdraw ten acres of land adjoining Quincy from the irrigation district for use as a site for a hospital at Quincy has been given by irrigation district directors. The Grant County Hospital District No. 2, Cecyl Petrie and H. V. Beckemeier, Quincy, is planning to call an election on a $375,000 bond issue to finance the project. It is not certain that details can be completed in time for a special election before the first of next year.

SC 11-6. Previous report 1-24

RESIDENCE— Redmond, Wash.

Bids will be received from a select list of bidders the latter part of November, for a 4,400 sq. ft. one-story and basement residence to be constructed in east Redmond for Richard Abrams, owner. Working drawings are near completion by Wisbeck & Konzen, architects and engineers, 564 Broad St., Seattle.

Wood frame; pitched built-up roof, gravel surfaced; 3" fiberglass foil-backed batt insulation in roof, 2" in walls; beveled cedar siding; wood sash; plaster partitions; hardwood, some vinyl tile, asphalt tile, linoleum flooring; birch cabinets; formica counter tops; ceramic tile tub recess; oil-fired hot water heating. PD 11-8. Previous report 10-15

★CHURCH— Richland, Wash.

Award to Stewart Construction Co., N. 9103 Division, Spokane, $41,243, by Trinity United Protestant Church, Richland, for construction of the first unit of the new 3,400 sq. ft. one-story church at Richland. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane.

LL 11-9. Previous report 10-28

NORTH SEATTLE HIGH SCHOOL— Seattle, Wash.

(Estimated cost $3,766,400)

Bids may be called in the spring of 1958 by Seattle School District No. 1, 815 4th Ave. N., Seattle, and working drawings are underway by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, for the new 1,500-student 200,000 sq. ft. one-story North Seattle High School near Ashworth Ave. and N. 130th St., in Seattle.

Plans include reinforced concrete; precast and pre-stressed columns and beams in classroom portion, thin-shell construction in gymnasium and auditorium; aluminum window wall, some brick veneer exterior; exposed shale block partitions.

PD 11-5. Previous report 8-12

SHOE STORE EXPANSION—Seattle, Wash.
(Estimated cost $300,000)

Work will start in August 1958 on an expansion project for Nordstrom's, Inc., 5th Ave. and Pike St., Seattle, involving remodeling 30,000 sq. ft. of space in the building adjacent to the existing shoe store. The additional space will nearly double the size of the present three-story structure.
PD 11-5

REMODEL OFFICE BUILDING—
Seattle, Wash.

Preliminary drawings are underway by Arnold G. Gangnes, Seaboard Bldg., Seattle, on the first portion of a three-year project of remodeling the Lowman Bldg., 107 Cherry, Seattle, for United Good Neighbors, owners. Present project involves remodeling three floors for occupancy by the owners. Remaining floors will be leased to tenants, with remodeling gradually done over remaining period of time. Work includes a new entrance and lobby; modernized corridors and toilet facilities, including new lighting fixtures. Contract is already awarded for installation of two new elevators. PD 11-5

PARKING GARAGE— Seattle, Wash.

It is probable that no further action will be taken until after the first of the year by owner Emil Gaupholm, on construction of an open-deck parking garage in Seattle. Plans by John I. Mattson, architect, Lowman Bldg., Seattle. SP 11-6. Previous report 8-9

ELEMENTARY SCHOOL ADDITION—
Seattle, Wash.

Working drawings are underway by Mallis & DeHart, architects, 6th floor Lyon Bldg., Seattle, for a 12,000 sq. ft. addition and alterations to Pinehurst Elementary School, E. 117th St. and 12th Ave. N.E., Seattle, for Seattle School District No. 1, 815 4th Ave. N., Seattle. Plans for remodeling include removal of old partitions, constructing new partitions, new asphalt tile flooring in administrative area. Addition involves six classrooms, playroom, conference room and storage room.

Concrete slab-on-grade; some t&g roof decking, joist, some glued laminated beams, steel decking; brick veneer; metal sash; masonry and plaster partitions; asphalt tile, ceramic tile, maple flooring; connected to existing steam heat system, new boiler and burner added. PD 11-6

OFFICE, WAREHOUSE— Seattle, Wash.

Preliminary plans are underway by Ibsen Nelsen and Russell Sabin, architects, 1314 E 43rd, Seattle, for a one-story, 30,000 sq. ft., concrete office and warehouse to be built on piling on a 40,000 sq. ft. site adjacent to the southwest corner of Airport Way and Lander St., with frontage on Lander St., Airport Way and 8th Ave. S. Owners W. L. Gillespie, D. B. Gillespie, R. W. Krows, and K. L. Krows, plan to lease the building to a national concern. Existing building on the property is to be removed. PD 11-6

PRESBYTERIAN CHURCH— Seattle, Wash.

Preliminary plans are underway by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, for a church at 3rd Ave. N.W. and Richmond Beach Road, Seattle, for Calvin Presbyterian Church, 618 W. 185th, Richmond Highlands. PD 11-6

▲CONCRETE APARTMENT BUILDING—
Seattle, Wash.

Bids received by The Thelma Corporation, in the office of Ted LaCourse, architect, 1826 Broadway, Seattle, for construction of a five-story reinforced concrete apartment building at 727 Bellevue Ave. N., in Seattle. Bids opened November 7.

The building, 31'x165', will contain 40 units and will be served by an elevator and parking areas, some under carports. Concrete block filler walls, ornamental steel spandrels, metal sash and electric heating are specified. Interior finishes include plastering, vinyl composition floor coverings and birch cabinet work.

LOW BID: Baugh Construction Co., 922 Poplar Place, $324,900. OTHER BIDDERS: Puget Construction Co., Inc., 1811 Bush Place, $330,800; Century Construction Co., 401 W. Galer St., $338,963; Glacier Construction Co., 5536 Coniston Road, $340,350; Jentoft & Forbes, 927 W. 46th St., $344,083; Jack Gillespie, 803 E. 73rd, $361,428; Farwest Construction Co., 608 W. 44th St., $363,870; Cawdrey & Vemo, 3601 Fremont Ave., $384,891. All of Seattle.
SP 11-9. Previous report 11-1

LDS CHURCH— Seattle, Wash.

Plans have been temporarily delayed for construction of 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. Working drawings had been started by architect Clifford Dobson, 4115 University Way, Seattle. Church officials are considering increasing the scope of the construction.

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. Working drawings will begin about the end of October. PD 11-8. Previous report 8-29

●CLINIC— Seattle, Wash.

Bids will be opened 4 p. m., November 21, in office of James Klontz & Associates, architects, 7th floor, Dexter Horton Bldg., Seattle, for construction of a one-story and basement, 7,000 sq. ft. (each floor) clinic on 16th Ave. and E. Pine St., Seattle, for Seattle Eye Building Corp. No more plans available, but they may be examined in the office of the architects, and in office of Associated General Contractors, 215 W. Harrison, Seattle.

Building will be fireproof construction. Flat concrete roof; steel joists; concrete block, stone, glass mosaic exterior; aluminum sash; plaster partitions; fiberglass type insulation in roof, aluminum insulation in walls; gas-fired hot air and hot water heating system. Flooring to be completed under separate contract. Plans include a 20-car asphaltic concrete parking area.

Planholders: E. F. Shuck, 535 Pontius; Hainsworth Construction, 3028 Western; Jentoft & Forbes, 927 W. 46th; W. G. Clark, 408 Aurora Ave.; Wick Construction Co., 720 N. 35th; Noble W. White, 4142 W. Marginal Way; A. W. Robertson, 8233 Overlake Drive W., Bellevue. Of Seattle except as noted.
PD 11-9

▲RESILIENT FLOORING— Seattle, Wash.

Five bids were received by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for resilient flooring for Atlantic Terminal Operators' Rotunda, Seattle Transit System Spec. P-4. The following are basic bids. Bids opened November 6. LOW BID: Queen City Floor Co., 310 W. Republican, $1,138. OTHER BIDDERS: Erv Parent Co., 831 E. 110th, $1,165; R. D. Hurst Co., 325 Westlake Ave. N., $1,223; Armstrong Tile Co., 433 Fairview Ave. N., $1,297; Tourtellotte Corp., 226 White-Henry-Stuart Building, $1,428. Of Seattle.
PD 11-9. Previous report 10-31

SEATTLE UNIVERSITY CONSTRUCTION—
Seattle, Wash.
(Estimated cost $3,725,000)

Plans announced by Seattle University, Very Rev. A. A. Lemieux, S.J., university president, Broadway and E. Madison, Seattle, for construction during the next five years of three new buildings, including a library, science building and gymnasium-armory building, at Seattle University. Plans for the project have been sketched by John W. Maloney, architect, Central Bldg., Seattle.

The gymnasium-armory, estimated to cost $1,500,000, will replace the existing gymnasium. The library, expected to cost about $1,000,000, will be a four-story reinforced concrete building with faced-in glass, brick and limestone. It will include exhibition and lecture lounges, reading and seminar rooms and visual-aid and film departments. The science building will involve extensive use of glass, aluminum, brick and limestone. It will house faculty offices, student lounge, photographic and drafting rooms, and pre-medical and nurse-training departments.
SC 11-9

▲CHURCH ADDITION— Seattle, Wash.

Bids being held for further study by building committee of Queen Anne Baptist

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Church, H. T. Beatty, pastor, 2011 1st Ave. N., Seattle, for construction of a three-story 101'x58' addition to existing church, above address. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle. Ten bids were received at November 7 bid opening.
PD 11-9. Previous report 11-2

WOODROW WILSON JUNIOR HIGH ADDITION— Seattle, Wash.

Working drawings are underway by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle, for an addition to Woodrow Wilson Junior High School, 1330 N. 90th, Seattle, for Seattle School District No. 1, 815 4th Ave. N., Seattle. Addition will include a cafeteria and classrooms.
PD 11-12

MOTEL— Seattle, Wash.

Working drawings are underway by William S. Kelton Co., structural engineers, 317 Queen Anne, Seattle, for a 90-unit 240'x90' motel building at Aurora and Thomas, Seattle, for Mr. and Mrs. Harry Delaloye, owners. Plans involve a three-story and two-basement structure, heated electrically, with stucco and ceramic veneer exterior. Sub-basement will provide parking facilities for 90 cars. An enclosed swimming pool, promenade and garden deck will be included. Construction will be started in early 1958.
PD 11-12

MAINTENANCE AND REPAIR BUILDING— Seattle, Wash.

Bids will be called soon by Board of Public Works, E. G. Henry, 512 County-City Bldg., mezzanine 25,000 sq. ft. maintenance and Seattle, for construction of a one-story and repair headquarters building at Ashworth Ave. and N. 128th St., in the Haller Lake area, Seattle. Working drawings have been completed by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle. The city engineering department will use the building for their north end headquarters. Included in plans are storage rooms, tool rooms, shops, toilet facilities, showers, locker rooms; office space will be on the mezzanine.

Rigid steel frame; pre-fab concrete panel exterior; wood decking; built-up roof; plastic skylights; steel sash, steel doors; concrete block partitions; concrete floors; convectors, unit heaters, fired by low-grade oil.
PD 11-12

LAKE TERRACE APARTMENT— Seattle, Wash.

Three selected contractors will present bids by mid-November to architect John C. O'Brien, 332 2nd Ave. W., Seattle, for construction of a three-level wood frame seven-unit apartment on 1st Ave. N. between Valley and Aloha streets, Seattle, for Delmar H. Noon, owner.

Flat built-up roof; concrete slab floors; Desco vitro-glaze exterior on cement-asbestos board panels; drywall partitions; aluminum sash; rubber tile flooring, some hardwood sleeper flooring; flush mahogany cabinets; formica counter tops; 3" fiberglass insulation in roof, 1" in walls; gas-fired hot water baseboard heating. A five-car carport and a parking area for two additional cars is included in the plans. Balconies will front each apartment.

Planholders: Joe Rentel, c/o Central Realty, 123 Mercer St., Seattle; Sterling Construction Co., Inc., 3012 65th S.W., Seattle; G. W. Hunter, 10311 32nd N.E., Seattle.
PD 11-12

REMODELING CHURCH— Seattle, Wash.

Bids are being received by Madrona Community Presbyterian Church, R. E. Ryland, pastor, 32nd and E. Marion St., Seattle, for exterior remodeling of the church, involving painting of sash, trim and brick, and removal of tower. This is a part of an overall remodeling project, with additional work contingent upon financial arrangements. Plans by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle.
PD 11-13

★HANGAR ADDITION— Seattle, Wash.

Award to Puget Construction Co., Inc., 1811 Bush Place, Seattle, $44,644, by King County Commissioners, 402 County-City Bldg., Seattle, for construction of a 50'x140' addition to county hangar at Boeing Field, county airport, which is leased to West Coast Airlines. Plans by Mandeville & Berge, architect and engineer, 426 Joseph Vance Bldg., Seattle. T. W. Traverso Construction Co. of Seattle, original low bidder, withdrew its bid of $39,861, after which time Puget Construction, second low bidder originally, was recommended for award.
SP 11-13. Previous report 11-6

JUNIOR HIGH SCHOOL—Silverdale, Wash.
(Estimated cost $700,000)

Bids will be called by December 1 by Central Kitsap School District No. 401, Box 2, Silverdale, for construction of a one-story, 52,000 sq. ft., concrete block junior high school at Silverdale. Working drawings are being completed by A. F. Jensen & Associates, architects, 252 Broadway, Tacoma. $25 deposit when bids are advertised.

Concrete slab on grade; glued laminated beams; Timdeck planking, built-up roofing; metal sash; drywall interior, plaster alternate; alternate for plastic skydome; hot water heating system.
SP 11-12. Previous report 10-17

●BUILDING DEMOLITION— South Bend, Wash.

Bids will be opened 8 p.m., November 25, by C. S. Poage, Jr., city clerk, City Hall, South Bend, for razing the old city hall building and cleaning up the site of the razing at South Bend. Specifications with above office. A waterfront park will be developed at the site.
SP 11-9. Previous report 11-6

■JUNIOR HIGH SCHOOL— Spanaway, Wash.

Planholders announced for construction of two school buildings totaling about 62,500 sq. ft. which will comprise a 20-classroom junior high school at Spanaway. Bids will be opened 8 p.m., December 3, by Bethel School District No. 403, Route 1, Box 289-AB, Spanaway. Plans with Harry E. Botesch, architect, and F. Edward Brown, associate, 504 Commerce Bldg., Everett.

Concrete slab on grade; reinforced bridge exterior walls; steel frame with wood decking, built-up roofing; steel sash; exposed brick, drywall and plaster interior finish; acoustical tile ceilings; asphalt tile, vinyl tile, ceramic tile and maple flooring, some exposed concrete.

Aside from the 20 classrooms, the buildings will provide two crafts laboratories, a library, home economics rooms, science laboratory, music and vocal rooms, a physical education room, and an auxiliary physical education and multi-service room, exercise room, and industrial arts and agricultural classrooms. The site adjoins the existing Bethel senior high school.

Planholders—GENERAL: E. Goettling & Son, S. 2921 J St.; C. E. Skinner, Box 742, Orting; Anderson Construction Co., 115 S. 9th; Ostruske-Murphy, Inc., 1515 Center; G. Kirkebo & Son, Inc., 1410 Mountain View; Northern Construction Co., 132 Sitcum Waterway; Quality Builders, 5220 S. Orchard; M & O Construction Co., 1323 S. K St.; Warter Construction Co., 7829 Pacific Ave.; Jardeen Bros., 1240 S. Sprague; Newland Construction Co., 3302 Hill, Everett. MECHANICAL: Kaelin Plumbing and Heating, Inc., 2111 Center; Pease & Sons, 10601 Waller Road; Lent's, Inc., 279 4th St., Bremerton; Urban Plumbing and Heating Co., 2716 A St.; Harold Jewell Plumbing and Heating, 6605 6th Ave.; Weber Plumbing and Heating, Inc., 110 N. Tacoma; H-K Western, Inc., 1714 S. Tacoma Way; Grosser & Co. Plumbing and Heating, 1115 S. Tacoma; Howard Chapman Plumbing and Heating, 1940 S. Wilkeson; Capital Plumbing and Heating, 424 S. Jefferson, Olympia. ELECTRICAL: Connors Electric Co., 103 S. 28th; Lent's, Inc., 279 4th St., Bremerton; Carl T. Madsen, Inc., 808 N. 12th; Washington Electric Co., 5235 S. Tacoma Way; Jardeen Electric Co., 1232 S. Sprague; Ault Electric Co., 4625 N. 11th; Tide Co., 1512 Center; Electric Construction Co., 1650 Center. Of Tacoma unless noted. HH 11-12. Previous report 11-6

FABRICATING PLANTS— Spokane, Wash.

An industrial resources survey being taken in the Inland Empire indicates the area has enough varied industry but lacks enough small fabricating plants to use up its raw materials. Plans to produce light metal products, pulp and chip boards and to assemble aircraft and automobile units were most frequently mentioned as new industries that could locate in the area. The survey, being taken among 400 major manufacturing concerns, will be completed by the first of the year.
SC 11-7

RETIREMENT HOME— Spokane, Wash.
(Estimated cost $1,000,000)

Construction will start in the spring of 1958 on a retirement home to be built on a six-acre tract on Hawthorne road just east of Division, within three blocks of the Whitworth college campus, in Spokane, for Presbyterian Ministries, Inc., a corporation formed by the synod of Washington for the project. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. The manor will be ready for occupancy in fall of next year. SC 11-6. Previous report 5-9

DINING HALL— Stanwood, Wash.

Working drawings are nearing completion by Robert F. Rathjen, architect, 213 Lake St. S., Kirkland, for a wood frame 2,000-capacity Y-shaped dining hall on a 150-acre site north of Stanwood at Warm Beach, for Washington Conference of Free Methodist Churches, Charles D. Kirkpatrick, pastor, 7 W. Etruria, Seattle. Bids will be called upon completion of financial arrangements. This is the first unit of a proposed church district camp and youth camp, which will eventually consist of a main auditorium, administration buildings, recreational program facilities. Dining hall will have a 60'x90' lounge and entrance lobby with a large stone fireplace; a 90'x80' dining area with 70'x10' outside dining balcony; a 150'x40' main dining room with 80'x10' outside dining balcony. Both balconies will have ship-deck canvas floors.

Wood frame; one-story and daylight basement; pitched roof; 3"x6" t&g decking; glued laminated beams; cedar siding; wood sash, some drywall, some cedar paneled partitions; 2"x4" t&g flooring. Church district board will act as contractor.
PD 11-13

HIGH SCHOOL— Sumner, Wash.

Failure of three adjacent non-high school districts to vote participation will delay for a year the construction of the proposed high school building at Sumner, according to Superintendent Clayton E. Willard, Sumner School District No. 320, 1625 Main St., Sumner. Voters in Sumner School District voted $400,000 in bonds last November and added two 10-mill special levies to finance Sumner's share of the cost. In the adjacent districts, including McAlder, Edgemont and North Puyallup, insufficient votes were cast to validate the elections.
SC 11-6

★RECTORY, SCHOOL, CONVENT— Tacoma, Wash.

Award was made by Catholic Archdiocese of Seattle, 907 Terry Ave., Seattle, for construction of a rectory, elementary school and parish hall and convent for St. Charles Borromeo parish, Tacoma. Plans by McGuire & Muri, architects, 231 Broadway, Tacoma. Bids opened November 5. The three buildings will be one-story and will total 27,000 sq. ft. of floor space. They will be erected on a 14-acre site in the Narrows Bridge area, bounded by 12th, Oxford and Meyers streets, Tacoma.

Concrete footings and foundation including 10" wall and 10"x18" continuous footings; frame walls; frame and concrete floor; timber beams; rigid asbestos roof; masonry and frame partitions; Fenlite windows, aluminum alternate; brick and wood exterior, plaster interior wall finish; plaster and gypsum lath partitions; asphalt tile, rubber tile, ceramic tile and vinyl tile flooring; plaster acoustical ceilings; folding doors, corrugated plastic panels, blackboards, fire doors; batt insulation in walls and attic space; hot water heating system, oil fired; unit fluorescent and incandescent lighting.

AWARD: Strom Construction Co., 2141 Fawcett, $352,670. OTHER BIDDERS: Warter Construction Co., 7829 Pacific, $360,000; Industrial Engineers and Contractors, Inc., 711 Middle Waterway, $370,764; G. Kirkebo & Son, 1410 Mt. View, $373,759; M & O Construction Co., 1323 S. K St., $387,920; North-

ern Construction Co., 132 Sitcum Blvd., $389,300; Quality Builders, Inc., 5220 S. Orchard, $398,893; Dolph Jones, 2213 N. Proctor, $412,000; Jardeen Bros., 1240 S. Sprague, $413,496; Bonnell Construction Co., 7801/2 Commerce, 415,600; Ostruske-Murphy, Inc., 1515 Center, $415,900; Standard Construction Co., 315 E. 25th, $416,853; Korsmo Bros., 3944 Lake Grove S.W., $432,981; Woodard Construction Co., 3842 N. Frace, $447,500. All of Tacoma. SC 11-8. Previous report 11-2

●MADISON SCHOOL— Tacoma, Wash.

Bids will be opened 3 p. m., November 26, by Tacoma School District No. 10, Toney Shelton, secretary and business manager, Administration Bldg., S. 9th and Tacoma Ave., Tacoma, for construction of a 135' diameter circular eight-classroom building addition to Madison Elementary School in Tacoma. Plans with Robert Billsbrough Price, architect, 2907 A St., Tacoma. $25 deposit. Separate contracts on general, mechanical and electrical work.

Addition will contain multipurpose room in the center with eight classrooms, teachers' room and workroom around it. Extensive alteration to the existing school is included in the contract. Construction will be slab on grade with glued laminated beam structural members, wood joists and plywood skin, insulated; wood sash; central portion to be skylighted by 20' diameter plastic dome, and classroom area by secondary domes; wood jalousies; hot water heating system converted to perimeter hot air system through heat exchanger; fluorescent lighting. SC 11-8. Previous report 9-20

SCHOOL ADDITION— Tacoma, Wash.

Working drawings complete and bid call contingent upon state approval of plans for a campus plan school designed as an addition to the Northeast Tacoma Elementary School at 5412 29th N.E. in Tacoma, for Tacoma School District No. 10, Administration Bldg., S. 9th and Tacoma Ave., Tacoma. Plans by Johnston, Evans & Parker, architects, Washington Bldg., Tacoma.

The addition will consist of four units, designed in campus plan, with a fifth section to be used as an amphitheater. One building will house four classrooms; another will have two classrooms, library and administration room; the third will be used for multipurpose room equipped with movable stage; and the fourth will be a playshed. The amphitheater will be outside the multipurpose room and will be bid as an alternate. The four units will each be 64'x64', one-story, and connected by plastic roofed covered ways, sheltered by wood screen walls. Each unit will be identical except for 12' wall panels in multipurpose building; others having 8' high walls.

Description for all units: concrete block on concrete footings; folded plane roof, prefabricated plywood stressed skin units joined in self spanning form supported only on perimeter wood columns which also support prefabricated plywood wall panels; beam minimal, acting only as tension chords after roof panels installed; plastic perimeter of all units; stainless steel jalousies in vents only, all other fixed glass; fiberglass quilt insulation in wall and roof panels. Finish: exposed structural system in classrooms with supporting casework system and interior face of fir plywood wall units, stained, other walls of gypsum board with fixed glass relights; fir trim; exposed fir plywood roof panel face and acoustic tile bands on ceiling; wood doors and cabinets; folding doors; high output fluorescent tubes; electric baseboard heating; portable stage; movable casework; carried system; exhaust type venilating system. SP 11-12. Previous report 9-20

MACHINERY FIRM BUILDING— Tacoma, Wash.

(Estimated cost $250,000)

Financial arrangements are being made by Murphy-Campbell Co., Frank Murphy, president, 2719 S. Tacoma Way, Tacoma, for construction of a new 30,000 sq. ft. precast concrete and glass building to be located on a level 10-acre tract adjacent to the Puyallup River Bridge on Highway 99 in Tacoma. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. It has not been decided whether or not bids will be called on the structure.

SP 11-12. Previous report 9-10

★HOUSING, UTILITIES— Tacoma, Wash.

Work is about 40% completed under contracts issued in September by Housing Authority of Tacoma, Harold Bergerson, executive director, 1728 E. 44th, Tacoma, for improvements on Salishan Housing Project No. WASH-5-4, involving alterations, repairs, additions to the Management and Maintenance Bldg. and to 228 existing and relocated dwelling units; existing and new overhead electric distribution system, water distribution system, sewer main system; construction of new gas distribution systems, streets, concrete curbs and sidewalks, street pavement, parking area pavement and construction of garage and shop building. Plans by A. Gordon Lumm, architect, 321 S. 11th, Tacoma.

Work as follows: Proposal A—General construction, mechanical, electrical work on alterations, repairs, additions to Management and Maintenance Bldg., to 228 existing and relocated dwelling units including demolition and adjacent site improvement work, and construction of garage and shop building. Proposal B—Alteration, repairs, additions to existing overhead electric distribution system and extending system. Proposal C—Alterations, repairs, additions to existing water distribution system, sewers and construction of new gas distribution system. Proposal D—New streets, curbing, sidewalks, paving, repairs, parking area, drainfields, grading.

CONTRACTORS—PROPOSAL A: Quality Builders, 5220 S. Orchard, Tacoma, $638,929. PROPOSAL B: Carl T. Madsen, 808 N. 12th, Tacoma, $25,888. PROPOSAL C: Malone & Tucci, 3215 S. M St., Tacoma, $99,500. PROPOSAL D: George Madsen Co., 3103 S. Lawrence, Tacoma, $82,640. Electric refrigerators and ranges for the 228 dwelling units are being furnished by Westinghouse Electric Supply Co., 1325 S. Tacoma Way, Tacoma (refrigerators, contract for $25,308) and Hotpoint Appliance Co., 3625 Interlake, Seattle, (ranges, contract for $21,838).

SP 11-12. Previous report 8-20

SWIMMING POOL— Tacoma, Wash.

Bids will be called late in November by Metropolitan Park District, Tom Lantz, recreation supervisor, City Hall Annex, Tacoma, for construction of the one-story, no basement, 253'x93'x36' L-shaped, south end swimming pool, to be located at E. 56th and D St., Tacoma, adjacent to the Stewart Heights Playfield. Plans by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma. Plans call for three swimming pools, to be constructed of reinforced concrete or ¼" steel plate (alternate); chlorination and filtration equipment; dressing rooms and appurtenant facilities; concrete footings and foundation; concrete block walls; SCR brick; concrete slab floors; flat built-up roof; glued laminated beams; steel columns; corrugated fiberglass panels; ceramic tile flooring, glazed block walls in showers; electric baseboard heating; power vents in skylights. Plans include a 400-car gravel surfaced parking area, with some asphaltic concrete.

Swimming pool will be 165'x75'; wading pool, 30'x60'; diving pool, 40'x50'. Ceiling-hung unit heaters, and boiler to heat pools, will be fired by natural gas. Main pool will be 3' deep at each end and slope to a maximum depth of 5' at the center. Diving pool will be 12' to 14' deep, and will be separated from the main pool by a concrete barrier, with opening so that the water can be filtered and chlorinated together with that of the main pool. It will have one- and three-meter boards and a 10-meter board. The wading pool will have a maximum depth of 12". Adjacent facilities, besides separate dressing rooms for men and boys, women and girls, and the chlorination and filtration equipment, will include a covered spectator area and a snack bar.

PD 11-12. Previous report 9-12

PRIMARY SCHOOL— Tacoma, Wash.

Bids may be called in January by Tacoma School District No. 10, Administration Bldg., S. 9th and Tacoma Ave., Tacoma, for construction of the Washington Primary School, consisting of a four-classroom 66'x76' classroom building and a 40'x56' multipurpose building separated by a 60'x76' play court, to be located on Union between N. 27th and N. 28th in the northern section of Tacoma. Working drawings are underway by Robert Billsbrough Price, architect, 2907 A St., Tacoma. The multipurpose building will feature 10'6" plywood roof vaults, while the classroom building will have plywood dome roof.

PD 11-12

LOBBY REMODELING— Tacoma, Wash.

Preliminary drawings have been completed and working drawings will be started soon by Johnston, Evans & Parker, architects, Washington Bldg., Tacoma, for remodeling lobby of Washington Bldg., S. 11th and Pacific Ave., Tacoma. Plans include a luminous ceiling; terrazzo flooring; new entrance doors; stripping, refacing columns. A portion of existing heating system will be replaced with new equipment. PD 11-12

HOSPITAL EXPANSION— Tacoma, Wash.

(Estimated cost $150,000)

Architectural plans are being considered by Board of Trustees, Mary Bridge Children's Hospital, 311 S. L St., Tacoma, for the completion of the third floor of the hospital. Plans were prepared by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. PD 11-13. Previous report 9-7

●BUS TERMINAL— Tacoma, Wash.

Bids will be opened 4 p. m., December 5, in office of William Churchill, regional manager, Northwest Greyhound Lines, 8th Ave. and Stewart St., Seattle, for construction of a new 300'x120' bus terminal on Pacific Ave., bounded by 13th and 14th streets and Court A, Tacoma. Plans with Decker, Christenson & Kitchin, architects, 1411 4th Ave. Bldg., Seattle, and with Associated General Contractors, 1605 Center St., Tacoma. 5% bid bond. $50 deposit.

The one-story terminal with mezzanine will have a parcel and express office, and a 10-bus loading ramp at the rear of the 200'x60' main building. Plans include a 110-car capacity parking garage over the basement, a waiting room, baggage and ticket office, post house, cocktail lounge and concession room on the main floor; restrooms and drivers' rooms on mezzanine. A 35-car parking area north of the terminal will be of portland cement with waterproofing agent added.

Reinforced concrete; 2" rigid insulation in flat built-up roof; steel frame; series of trusses fireproofed with plaster; aluminum window wall front; plaster, steel stud partitions; steel frame, light steel decking loading area canopy; terrazzo floor in waiting room, asphalt tile and ceramic tile on mezzanine floor; dry-hung ceilings; fluorescent, some incandescent lighting; aluminum entry doors; heating connected to city steam system; complete ventilation system, provision for future air conditioning.

PD 11-13. Previous report 10-15

RESIDENCE— Tacoma, Wash.

Bids will be called by spring of 1958 by owner Cliff Halfhill for construction of a one-story, 2,200 sq. ft. wood frame residence on Sound View Drive and Rock Road, Tacoma. Working drawings will start soon by Robert Billsbrough Price, architect, 2907 A St., Tacoma.

Residence to be two level; flat roof, built-up roofing; glued laminated beams; cedar siding; drywall, cedar partitions; aluminum sliding door units; wood sash; landscape architecture. PD 11-13. Previous report 8-1

BANK BRANCH— Walla Walla, Wash.

Work will probably be handled by a local contractor and bids will not be called by Baker-Boyer National Bank, Dorsey S. Baker, 2nd and Main, Walla Walla, for construction of a new branch bank on E. Isaacs Ave. in the new Eastgate district of Walla Walla. Plans are just underway for the structure which will be small.

SP 11-7. Previous report 10-31

▲SAND SHED— Yakima, Wash.

Bids received by R. H. Pyle, district engineer at Yakima for Washington State Highway Commission, Olympia, for construction of Teenaway Junction vicinity sand shed, Kittitas County; a State Project. Bids opened November 7. ONLY BIDS: Marshall Construction Co., 40 W. Ridgeway, Hermis-

ton, Ore., $15,280; Don Akins, Inc., Box 298, Ellensburg, $15,715.
IG 11-13. Previous report 10-22

IDAHO

HOSPITAL— Arco, Idaho
(Estimated cost $160,000)

The Lost River Hospital Association, A. R. Ahrnsbrak, chairman, Arco, is considering plans to petition for a bond election to raise $80,000 for the partial financing of a new 10-bed hospital to be located on the hill overlooking Arco. Plans by C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls. SC 11-12. Previous report 8-15

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Award to R. E. Rice Construction Co., Box 5046, Boise, $65,994, by Idaho Power Co., 807 Idaho, Boise, for construction of control building No. 2, Boise Bench Substation, near Boise. Plans by Lee R. Cooke, architect, 1220 1st St. S., Nampa.
SP 11-13. Previous report 11-2

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Bids which were received October 7 have been rejected by City Council, City Hall, 14th and Overland, Burley, for construction of a 25'x75' masonry clubhouse at the Burley Golf Club. New plans will be prepared by Harold Thompson, architect, 6001 Fairview, Boise, before bids are readvertised.
SP 11-8. Previous report 9-27

▲ELEMENTARY SCHOOL—Caldwell, Idaho

Bids received by Dixie School District, Canyon County, for construction of a frame with brick veneer two-room and multipurpose room elementary school at Dixie, near Caldwell. Plans by Charles W. Johnston, architect, 13 N. 8th St., Payette. Bids opened November 5. LOW BID: Donald Stewart, 1215 Chicago St., Caldwell, $36,967 (basic), $1,400 (alt. ded.). OTHER BIDDERS (basic): Albert L. Breuck, Caldwell, $39,872; David G. Dorsey, 312 N. 5th Ave., Caldwell, $40,704; Welch Bros. Construction Co., Boise, $41,728; L. H. Krieger Construction Co., 308 11th Ave. S. Ext., Nampa, $41,768; Emery S. Conner, 421 High, Nampa, $41,771; R. W. Leukenga Construction Co., 120 8th Ave. S., Nampa, $41,992; R. E. Rice Construction Co., 4602 State St., Boise, $42,320.

Glued laminated beams over multipurpose section; steel sash; asphalt shingle roof; drywall interior walls and ceilings; wood floors; hot air heating plant.
SC 11-9. Previous report 10-31

■HOUSING UNITS, SITE DEVELOPMENT Cottonwood, Idaho

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Additional planholders: Bennett & Hickey, Box 1013, Burns, Ore.; Joe Steblaj, 12319 E. Broadway, Spokane, Wash.; R. L. Greene, 3503 N.E. Broadway, Portland; Coast Ventures Inc., 2485C American Ave., Long Beach, Calif.; E. L. Kolbar, E. 10821 Valleyway, Spokane; Lord-Carroll, 4507 S.E. Milwaukie, Portland; J. O. Young & Sons, Box 52, Nampa, Idaho; Dunham Contracting Co., Box 42, Moscow, Idaho.

White Bros. Co. and Earl LeRoy Kelly, 119 Leonard, Walla Walla, Wash.; J. W. Copeland Yards, Burns, Ore.; McCormack Construction Co., 128 S.E. 1st, Pendleton, Ore.; Potlatch Construction, Box 2148, Spokane; Griewing & Westermeier, Grangeville, Idaho; Cooley-Woolsborn Construction Co., 1130 S.E. 122nd, Portland, Ore.; Technical Constructors Inc., Box 2488, Dallas, Tex.; Max A. Boesiger, 185 E. 2nd N., Mountain Home, Idaho; J. H. Wise & Son Inc., 900 E. Park Blvd., Boise, Idaho; Harold F. Weatherhead, 788 W. Washington, Burns, Ore.; Frank Dunham and A. C. Grant Construction Co., 2630 W. Bruneau, Kennewick, Wash.
DC 11-12. Previous report 10-29, Geiger AFB

SCHOOL CONSTRUCTION— Grangeville, Idaho

Bond issue was approved in the October 31 election held by Joint Class A School District No. 241, Grangeville, to finance repair and construction of school buildings in the district. The bond issue will provide the following construction: a 12-classroom junior-senior high school building in the Clearwater Valley area; an 18-classroom junior-senior high school in the southwest portion of Grangeville; a six-classroom junior-senior high school at Riggins; additional classrooms for the grade school at Elk City; repair to school buildings at Whitebird and Clearwater. SC 11-8. Previous report 10-11

●REACTOR BUILDING SHELL— Idaho Falls, Idaho
(Estimated cost $800,000)

Bids will be opened 3 p.m., December 11, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of reactor building shell at EBR II Area at the National Reactor Testing Station west of Idaho Falls; Inv. No. AT(10-1)-927. Specifications with above office.

Following is a general description of the work: (a) The reactor building shell is a containment vessel 80' in diameter by 139' over-all height, constructed of carbon steel plate of 1" thickness. The vessel will be cylindrical in shape with a vertical axis and will have a hemispherical top head and an ellipsoidal bottom head. The vessel will have four large airlock-type openings. (b) The reactor building shell foundation will be a stepped circular concrete pad in the bottom of a pit approximately 50' deep and 90' in diameter. Excavation of the pit will involve 6,000 c.y. common earth excavation and 8,000 c.y. rock excavation. (c) Work also will include construction of a 200,000-gal. flat bottom water storage tank (33' diameter by 32' height) with a reinforced concrete foundation.
SP 11-13. Previous report 11-12

BUILDING MODIFICATIONS— Idaho Falls, Idaho
(Estimated cost $170,000)

Bids will be called later this month by Atomic Energy Commission, Box 1221, Idaho Falls, for modifications to CFA cafeteria, CPP decontamination room in RAF Bldg. CPP-627, CFA Records Center Bldg. No. 624, and ETR Experimenters Bldg., extension of burial ground fencing, conversion of space in Bldg. CPP-602 in the CPP Area, extension of disposal field for CPP sewage plant, and modifications to CFA parking lot, all at the south end of the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-923. Plans with above office. All bidders should visit the site of the work located at the NRTS, west of Idaho Falls. Two prebid inspection tours of the work area will be arranged.

CFA CAFETERIA: Construct pumice block additions to existing cafeteria building consisting of removal of existing pumice block walls, sidewalks; addition of block walls, sidewalks, concrete slab floors and built-up roofing over metal decking; revisions and extensions of electrical, plumbing, heating and ventilating systems; painting, floor covering; furnishing or relocating cafeteria equipment and furnishings; other miscellaneous work to complete building. Additions are 32'x54' and 21'x78' and 13'x37'. Work includes construction of a built-up roof over an existing 12'x18' unloading ramp. FENCING: Construct 6,800 of 6-strand, 2-point barb wire fencing with one 18' gate opening. Steel "T" line posts and gate may be Government-furnished. Steel pipe gate, pull and corner posts to be embedded in concrete.

BLDG. CPP-602 CONVERSION: Remove certain existing portions in the basement and construct new gypsum board and stud partitions. In Room 227, first floor, install Government-furnished laboratory benches, sinks and fume hoods and modify existing laboratory benches to accommodate new equipment. Work includes extension of plumbing, piping and electrical services and installation of services in new equipment.

DECONTAMINATION ROOM: Construct 4'x19' steel work bench with stainless steel top and plexiglass cover. Modify 16" ameter exhaust duct and extend utilities air, water, steam and electricity. Ins instrument panel.

DISPOSAL FIELD EXTENSION: Conn 675' of 8" open joint concrete sewer with two precast concrete manholes.

PARKING LOT: Place 120 bumper blo using salvaged railroad ties. Install traf control signs and paint 120 vehicle park lanes. Erect 150' of 1"x8" rail on steel p as barrier between bus unloading lot a vehicle parking lot. Modify existing h bolt heater rack and install 40 additio heater outlets. Paint bumper blocks a heater racks.

RECORDS CENTER BLDG: Modify exi ing 40'x60' area. Erect cement-asbestos boa on existing pipe framework; install flo radiators and ultrasonic alarm system.

EXPERIMENTERS BLDG.: Modificat of interior consisting of window and do relocation, bracing of subfloor, laying se ondary flooring, and installation of linole floor covering. Connecting protecto wire to alarm system in MTR-ETR system. Exte sion of security fencing, which consists 580' fence, and perimeter lighting on secu ity fence.
SP 11-

TEST FACILITY BUILDINGS, UTILITIES— Idaho Falls, Ida

A news item was carried in PCD Octob 24 stating that bids would be opened May 1958 on construction of a major test facili at the NRTS in Idaho. This information w erroneous. The description applied to th Flight Engine Test Facility, Aircraft Nuclea Station, Idaho, under Inv. No. AT(10-1)-8 on which bids were opened earlier this yea and contract awarded in August to Rober S. Wright Co., Inc., Seattle, and S. Burch Sons Construction Co., Great Falls, as joint venture. The award story was carri in PCD 8-29. DM 11-13. Previous report 10-

■OFFICE BUILDING— Lewiston, Idah
(Estimated cost $65,000)

Planholders announced for construction of a one-story and partial-basement, 3,000 sq ft., concrete block office building at 3rd and Idaho streets in Lewiston, for Idaho Employment Security Agency. Raymond B. Butler, local manager for the agency. Bids will be opened 2 p.m., November 21, by Arthur Warren, commissioner, Department of Public Works, 432 Capitol Bldg., Boise. Plans with Hugh Richardson, architect, Weisgerber Bldg., Lewiston.

Planholders—GENERAL: Gus Larkin, 1318 8th St.; Kenaston & Huntley, Box 144; T. R. Pope, Route 1, Box 4-A, Clarkston, Wash.; Don St. Marie, 111 W. 19th Ave.; Commercial Builders, Inc., Box 14, Moscow; Dunham Engineering and Contracting Co., 628 Homestead, Moscow; Sceva Construction Co., Inc., N. 2928 Madelia, Spokane, Wash.; Walter M. Varnum, Box 983, Coeur d'Alene. MECHANICAL: Miller Bros., 1116 17th St.; Lewiston Plumbing and Heating, 6208 9th St. ELECTRICAL: John's Electric, 215 Main; Stout Electric, 848 Main. Of Lewiston unless otherwise noted.

Concrete footings and foundation, poured concrete block, solid masonry walls; framed beam and girder floors; timber girders, beams, columns; flat glued laminated roof; frame partitions; metal stairways; aluminum windows; brick exterior, plaster interior wall finish; gypsum lath partitions; asphalt tile flooring; acoustical ceilings; folding doors; blanket insulation; fluorescent lighting; oil heating system.
SP 11-8. Previous report 11-

RESTROOM FACILITIES—Palisades, Idah

Bids will be called in December or January by Bureau of Reclamation, H. T. Nelson, regional director, Reclamation Bldg., Fairgrounds (Box 937) Boise, for construction of public restroom facilities at Palisades Dam, Idaho.
DM 11-

BOILER REPAIR— Pocatello, Idah

Contract is being held pending appropriation of funds for repairing four boilers at the U. S. Naval Ordnance plant at Pocatello, Spec. No. 11264/57, according to the 13th Naval District, Public Works Office, Bldg. 232, U. S. Naval Station, Seattle. Low bidder

on October 15 was S. M. Gilbert & Co., 7100 E. Marginal Way, Seattle, with $15,422.
SP 11-13. Previous report 10-16

HEATING PLANT IMPROVEMENTS— Rexburg, Idaho
(Estimated cost $14,950)

Work is being done by the maintenance staff at Ricks College in Rexburg, on improvements to the heating plant behind the administration building at the college, according to John L. Clarke, president of the college. Included in the work is installation of a stoker, dust collector, induced draft furnace and combustion controls.
SP 11-8. Previous report 10-26

MONTANA

MEN'S DORMITORY— Billings, Mont.

Plans will be complete in early spring of 1958 by Cushing, Terrell & Associates, architects, 1333 N. 27th St., Billings, for a three-story and no basement, 22,000 sq. ft., solid masonry men's dormitory at Rocky Mountain College, 1511 Poly Drive, Billings.

Concrete spread footings, concrete foundation; 37'x170'; solid masonry walls; concrete slab floors; concrete girders, beams, columns; flat roof; frame partitions; concrete stairways; aluminum sash; masonry exterior, plaster interior wall finish; wood trim; plaster and gypsum lath partitions; asphalt tile flooring; acoustical ceilings; wood doors and cabinets; folding doors; incandescent lighting; hot water heating system, gas fired.
SP 11-13. Previous report 10-8

GREELEY SCHOOL ADDITION— Butte, Mont.

Following is additional description on an eight-classroom addition to and remodeling of four existing classrooms at the Greeley School on Silver Bow St. in Butte. Bids will be opened 8 p. m., November 18, by School District No. 1, Administration Office, 111 N. Montana St., Butte. Plans with Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte.

Work consists of razing the existing building, remodeling another building and constructing a building with four wings measuring 98'x47', 86'x40', 96'x47' and 95'x24', respectively. Concrete foundations; pumice block walls and partitions; reinforced concrete columns and beams with prestressed concrete channels to form roof deck; face brick exterior; glass block; built-up roofing; asphalt tile, vinyl tile and ceramic tile flooring; aluminum sash; hot water heating system with heating and ventilating units and fin-tube radiation.
EE 11-8. Previous report 10-29

★BUILDING COMPLETION, REMODELING WORK— Butte, Mont.

Award announced by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for completion of and remodeling to the Petroleum Engineering Bldg. and the Main Hall at Montana School of Mines in Butte. Plans by J. G. Link & Co., architects and engineers, 111 N. Montana Ave., Butte. Bids opened November 7. AWARD: Cahill-Mooney Construction Co., Box 398, Butte, $57,856 ($40,181 alt. 1 on petroleum building, $3,189 alt. 2 on same, $130 alt. 3 on same, $14,356 basic on main hall work). Cahill-Mooney submitted a basic bid of $85,923 on petroleum building and was second low bidder before selection of alternates. OTHER BIDDERS: Hammond-Everly Construction Co., Box 201, Butte, $79,895 (basic), $41,621 (alt. 1), $3,287 (alt. 2), $160 (alt. 3), $15,335 (basic on main hall work); Huckaba-Lutey, Whitehall, $88,221, $43,680, $3,374, $132, $12,557; Paul Olsen Contractor, 1877 Phillips Ave., Butte, $91,328, $42,326, $3,608 $145, 13,817; J. Knuckey Construction Co., 628 S. Montana, Butte, $91,776, $43,782, $3,435, $145, $14,196.

COMPLETION WORK: Consists of work on second floor of the building which was not finished at time of construction. Concrete floors will be leveled for installation of tile flooring; partitions of steel with lath and plaster will separate floor space into 15 rooms, including classrooms and janitor service rooms; lighting, plumbing, painting included; acoustical tile treatment on ceilings. MAIN HALL REMODELING: Consists of acoustical tile on ceiling; asphalt tile on floors; section of basement wall to be replaced with reinforced concrete footings to strengthen building foundation; painting, lighting included.
LS 11-9. Previous report 11-2

CAPEHART HOUSING IN HAWAII

Award to M. J. Brock & Sons, Inc., 2894 Rowena Ave., Los Angeles, Calif., $4,123,476, by Corps of Engineers, Honolulu District, Box 2240, Honolulu, T.H., for construction of a 250-unit Capehart armed services housing project at Fort Shafter and Tripler Army Hospital, Oahu; Inv. No. 58-2.
SP 11-13. Previous report 10-29

UNEMPLOYMENT COMPENSATION BUILDING— Butte, Mont.

Estimated cost of the proposed one-story and partial basement, 40'x80', poured concrete unemployment compensation building to be constructed in Butte is $66,000. Bids will be opened 10 a. m., November 21, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena. Plans with J. G. Link & Co., architects and engineers, 111 N. Montana Ave., Butte. $25 deposit. Bid bond 5%.

Reinforced rectangular footings, cantilever pilaster footings; 4,680 sq. ft. area; concrete foundation walls; concrete basement floor, frame main floor; timber girders, beams, columns; flat roof, built-up roofing, wood deck; frame partitions; wood stairways; aluminum sash; three sides concrete block exterior wall finish, one side face brick; drywall partitions; asphalt tile flooring; acoustical tile ceilings in offices; wood and aluminum doors; wood cabinets; 1" rigid insulation in roof; fluorescent lighting; refrigeration; hot air heating system, gas fired.
SP 11-13. Previous report 11-7

HATCHERY REPAIRS— Creston, Ennis, Mont.
(Estimated costs $188,000 Creston, $62,000 Ennis)

It is hoped that funds for hatchery repairs at the Creston and Ennis stations will be included in the Fish and Wildlife Service budget requested for the year beginning July 1.
SC 11-9

CONVENT, CHURCH REMODELING— East Helena, Mont.

Building fund campaign underway by Sts. Cyril and Methodius Parish, Rev. C. W. McCarthy, pastor, East Helena, to raise funds to finance construction of a convent residence for St. Ann's School and for repairs and remodeling the parish church at 102 W. Riggs St. in East Helena.
LS 11-12

HOSPITAL— Great Falls, Mont.
(Estimated cost $1,900,000)

The City Council, City Hall, Great Falls, has approved the transfer of 8.4 acres of city-owned land in Highland Park to Cascade County as the initial tract in the site for the new Cascade County Convalescent Hospital. Plans for the hospital are underway by Knight & van Teylingen, architects, Medical Arts Bldg., Great Falls. Bids will be called about April 1958 by the county commissioners.
SC 11-9. Previous report 11-5

■ ELEMENTARY SCHOOL— Havre, Mont.

Planholders announced for construction of the one-story and no basement, 14,000 sq. ft., solid masonry Highland Park Elementary School at Havre. Bids will be opened 2 p. m., November 19, by School District No. 16, Hill County, Havre. Plans with Knight & van Teylingen, architects, 305 Masonic Temple Bldg., Havre.

Planholders—GENERAL: Morgen & Oswood Construction Co., Box 225, Glasgow; Commercial Builders, Williston, N. Dak.; C. B. Lauch Construction Co., Box 724, Great Falls; Gens Construction Co., Box 546, Great Falls; Zion Construction Co., 3016 5th Ave. N., Great Falls; Leigland Co., Box 1862, Great Falls; Eskestrand Bros. Construction Co., 215 Masonic Bldg., Havre; Chris Fuglevand Co., 519 4th St., Havre; Smitt Construction Co., Williston; Riordan-Witty Construction Co., 815 25th Ave. N., Great Falls; Sletten Construction Co., Box 1188, Great Falls. MECHANICAL: Kalispell Plumbing and Heating Co., 333 1st Ave. E., Kalispell; J. A. McCauley Plumbing and Heating Co., 424 2nd St., Havre. ELECTRICAL: Electric Supply Co., 412 1st St., Havre; Havre Electric Co., 317 3rd St., Havre.

Concrete footings and foundation; solid masonry walls; concrete slab floor; timber beams, girders, columns; flat roof; frame partitions; concrete stairways; wood sash; brick exterior, plaster interior wall finish; wood trim; plaster and gypsum lath partitions; vinyl tile flooring; plaster acoustical ceilings; batt insulation in roof; hot water radiant heating system, gas fuel.
SP 11-13. Previous report 11-2

FISH AND GAME COMMISSION BUILDING— Helena, Mont.

The Montana Fish and Game Commission has asked the Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, to designate an architect to help design a building planned on nine lots west of the State Laboratory Building in Helena.
SC 11-9

CATHEDRAL REPAIRS— Helena, Mont.

Fund raising campaign is under the direction of Dr. James J. McCabe, 615 Stuart St., Helena, for $300,000 to finance necessary repairs to the Cathedral of St. Helena, 551 N. Warren, Helena.
LS 11-12

★ROOF RECONSTRUCTION— Kalispell, Mont.

Award to Collins Construction Co., Route 1, Kalispell, $977, by Board of Trustees, Carnegie Library, 2nd Ave. E., Kalispell, for reconstruction of the roof at the library. OTHER BIDS: E. F. Matelich Construction Co., 222 Crestline Drive, Kalispell, $990; Gyrion Construction Co., 94 5th Ave. N.W., Kalispell, $1,143.
RB 11-9

ROCKET STORAGE BUILDING MODIFICATION— Malmstrom AFB, Mont.

Modification of a rocket storage building at Malmstrom AFB, on which bids will be opened 11 a. m., November 29, by U. S. Air Force, Procurement Office, Malmstrom AFB, involves enclosing two 84'x15' and 84'x17' building areas on the east and west sides of the building at the base; Inv. No. 58-21. Specifications call for concrete block walls; steel roof joists and steel decking; eight 10'x10' rolling steel doors installed in the new area. Work is to be completed in 120 days.
SC 11-8. Previous report 11-6

▲PAINTING BUILDING— Malmstrom AFB, Mont.

Five bids were received by U. S. Air Force, Procurement Office, Malmstrom AFB, for painting the exterior of the air base exchange building. Bids opened November 8. LOW BIDS: Peder Evenson Co., 2100 2nd Ave. S., Great Falls, $945; Melvin L. Hammett, 1209 5th Ave. N., Great Falls, $1,548; Nick Theisen, 412 16th St. N., Great Falls, $1,787.
SP 11-13. Previous report 10-29

●BUILDING REMOVAL— Malmstrom AFB, Mont.

Bids will be opened 2 p. m., December 3, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for purchase and removal of ten one-story frame buildings at Malmstrom AFB. Specifications with above office. Prospective bidders may inspect the buildings by contacting the office of the installations engineer at Malmstrom AFB from 8 to 11 a. m. and 1 to 3 p. m. Monday through Friday until November 29.

The buildings are theater of operations type structures. They include three latrine and shower buildings, 18'x24' and three 20'x24'; three airmen's dormitories, 20'x100', and one 20'x84' administrative office.
SC 11-13

★RESIDENCE— Malta, Mont.

Award to Meredith Construction Co., Malta, $15,897, by U. S. Fish and Wildlife Service,

ton, Ore., $15,280; Don Akins, Inc., Box 298, Ellensburg, $15,715.
IG 11-13. Previous report 10-22

IDAHO

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(Estimated cost $160,000)

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Additional planholders: Bennett & Hickey, Box 1013, Burns, Ore.; Joe Steblaj, 12319 E. Broadway, Spokane, Wash.; R. L. Greene, 3503 N.E. Broadway, Portland; Coast Ventures Inc., 2485C American Ave., Long Beach, Calif.; E. L. Kolbar, E. 10821 Valleyway, Spokane; Lord-Carroll, 4507 S.E. Milwaukie, Portland; J. O. Young & Sons, Box 52, Nampa, Idaho; Dunham Contracting Co., Box 42, Moscow, Idaho.

White Bros. Co. and Earl LeRoy Kelly, 119 Leonard, Walla Walla, Wash.; J. W. Copeland Yards, Burns, Ore.; McCormack Construction Co., 128 S.E. 1st, Pendleton, Ore.; Potlatch Construction, Box 2148, Spokane; Griewing & Westermeier, Grangeville, Idaho; Cooley-Woolsborn Construction Co., 1130 S.E. 122nd, Portland, Ore.; Technical Constructors Inc., Box 2488, Dallas, Tex.; Max A. Boesiger, 185 E. 2nd N., Mountain Home, Idaho; J. H. Wise & Son Inc., 900 E. Park Blvd., Boise, Idaho; Harold F. Weatherhead, 788 W. Washington, Burns, Ore.; Frank Dunham and A. C. Grant Construction Co., 2630 W. Bruneau, Kennewick, Wash.
DC 11-12. Previous report 10-29, Geiger AFB

SCHOOL CONSTRUCTION— Grangeville, Idaho

Bond issue was approved in the October 31 election held by Joint Class A School District No. 241, Grangeville, to finance repair and construction of school buildings in the district. The bond issue will provide the following construction: a 12-classroom junior-senior high school building in the Clearwater Valley area; an 18-classroom junior-senior high school in the southwest portion of Grangeville; a six-classroom junior-senior high school at Riggins; additional classrooms for the grade school at Elk City; repair to school buildings at Whitebird and Clearwater. SC 11-8. Previous report 10-11

●REACTOR BUILDING SHELL— Idaho Falls, Idaho
(Estimated cost $800,000)

Bids will be opened 3 p.m., December 11, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of reactor building shell at EBR II Area at the National Reactor Testing Station west of Idaho Falls; Inv. No. AT(10-1)-927. Specifications with above office.

Following is a general description of the work: (a) The reactor building shell is a containment vessel 80' in diameter by 139' over-all height, constructed of carbon steel plate of 1" thickness. The vessel will be cylindrical in shape with a vertical axis and will have a hemispherical top head and an ellipsoidal bottom head. The vessel will have four large airlock-type openings. (b) The reactor building shell foundation will be a stepped circular concrete pad in the bottom of a pit approximately 50' deep and 90' in diameter. Excavation of the pit will involve 6,000 c.y. common earth excavation and 8,000 c.y. rock excavation. (c) Work also will include construction of a 200,000-gal. flat bottom water storage tank (33' diameter by 32' height) with a reinforced concrete foundation.
SP 11-13. Previous report 11-12

BUILDING MODIFICATIONS— Idaho Falls, Idaho
(Estimated cost $170,000)

Bids will be called later this month by Atomic Energy Commission, Box 1221, Idaho Falls, for modifications to CFA cafeteria, CPP decontamination room in RAF Bldg. CPP-627, CFA Records Center Bldg. No. 624, and ETR Experimenters Bldg., extension of burial ground fencing, conversion of space in Bldg. CPP-602 in the CPP Area, extension of disposal field for CPP sewage plant, and modifications to CFA parking lot, all at the south end of the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-923. Plans with above office. All bidders should visit the site of the work located at the NRTS, west of Idaho Falls. Two prebid inspection tours of the work area will be arranged.

CFA CAFETERIA: Construct pumice block additions to existing cafeteria building consisting of removal of existing pumice block walls, sidewalks; addition of block walls, sidewalks, concrete slab floors and built-up roofing over metal decking; revisions and extensions of electrical, plumbing, heating and ventilating systems; painting, floor covering; furnishing or relocating cafeteria equipment and furnishings; other miscellaneous work to complete building. Additions are 32'x54' and 21'x78' and 13'x37'. Work includes construction of a built-up roof over an existing 12'x18' unloading ramp. FENCING: Construct 6,800 of 6-strand, 2-point barb wire fencing with one 18' gate opening. Steel "T" line posts and gate may be Government-furnished. Steel pipe gate, pull and corner posts to be embedded in concrete.

BLDG. CPP-602 CONVERSION: Remove certain existing portions in the basement and construct new gypsum board and stud partitions. In Room 227, first floor, install Government-furnished laboratory benches, sinks and fume hoods and modify existing laboratory benches to accommodate new equipment. Work includes extension of plumbing, piping and electrical services and installation of services in new equipment.

DECONTAMINATION ROOM: Construct 4'x19' steel work bench with stainless steel top and plexiglass cover. Modify 14" diameter exhaust duct and extend utilities for air, water, steam and electricity. Install instrument panel.

DISPOSAL FIELD EXTENSION: Construct 675' of 8" open joint concrete sewer pipe with two precast concrete manholes.

PARKING LOT: Place 120 bumper blocks using salvaged railroad ties. Install traffic control signs and paint 120 vehicle parking lanes. Erect 150' of 1"x8" rail on steel posts as barrier between bus unloading lot and vehicle parking lot. Modify existing head bolt heater rack and install 40 additional heater outlets. Paint bumper blocks and heater racks.

RECORDS CENTER BLDG: Modify existing 40'x60' area. Erect cement-asbestos board on existing pipe framework; install fin-tube radiators and ultrasonic alarm system.

EXPERIMENTERS BLDG.: Modification of interior consisting of window and door relocation, bracing of subfloor, laying secondary flooring, and installation of linoleum floor covering. Connecting protecto wire fire alarm system in MTR-ETR system. Extension of security fencing, which consists of 580' fence, and perimeter lighting on security fence.
SP 11-9

TEST FACILITY BUILDINGS, UTILITIES— Idaho Falls, Idaho

A news item was carried in PCD October 24 stating that bids would be opened May of 1958 on construction of a major test facility at the NRTS in Idaho. This information was erroneous. The description applied to the Flight Engine Test Facility, Aircraft Nuclear Station, Idaho, under Inv. No. AT(10-1)-878 on which bids were opened earlier this year and contract awarded in August to Howard S. Wright Co., Inc., Seattle, and S. Birch & Sons Construction Co., Great Falls, on a joint venture. The award story was carried in PCD 8-29. DM 11-13. Previous report 10-24

■OFFICE BUILDING— Lewiston, Idaho
(Estimated cost $65,000)

Planholders announced for construction of a one-story and partial-basement, 3,000 sq. ft., concrete block office building at 12th and Idaho streets in Lewiston, for Idaho Employment Security Agency, Raymond D. Butler, local manager for the agency. Bids will be opened 2 p.m., November 21, by Arthur Warren, commissioner, Department of Public Works, 432 Capitol Bldg., Boise. Plans with Hugh Richardson, architect, Weisgerber Bldg., Lewiston.

Planholders—GENERAL: Gus Larkin, 1119 8th St.; Kenaston & Huntley, Box 144; T. R. Pope, Route 1, Box 4-A, Clarkston, Wash.; Don St. Marie, 111 W. 19th Ave.; Commercial Builders, Inc., Box 14, Moscow; Dunham Engineering and Contracting Co., 626 Homestead, Moscow; Sceva Construction Co., Inc., N. 2928 Madelia, Spokane, Wash.; Walter M. Varnum, Box 983, Coeur d'Alene. MECHANICAL: Miller Bros., 1116 17th St.; Lewiston Plumbing and Heating, 0208 5th St. ELECTRICAL: John's Electric, 215 Main; Stout Electric, 848 Main. Of Lewiston unless otherwise noted.

Concrete footings and foundation; poured concrete block, solid masonry walls; frame beam and girder floors; timber girders, beams, columns; flat glued laminated roof; frame partitions; metal stairways; aluminum windows; brick exterior, plaster interior wall finish; gypsum lath partitions; asphalt tile flooring; acoustical ceilings; folding doors; blanket insulation; fluorescent lighting; oil heating system.
SP 11-8. Previous report 11-1

RESTROOM FACILITIES—Palisades, Idaho

Bids will be called in December or January by Bureau of Reclamation, H. T. Nelson, regional director, Reclamation Bldg., Fairgrounds (Box 937) Boise, for construction of public restroom facilities at Palisades Dam, Idaho. DM 11-12

BOILER REPAIR— Pocatello, Idaho

Contract is being held pending appropriation of funds for repairing four boilers at the U. S. Naval Ordnance plant at Pocatello, Spec. No. 11264/57, according to the 13th Naval District, Public Works Office, Bldg. 232, U. S. Naval Station, Seattle. Low bidder

on October 15 was S. M. Gilbert & Co., 7100 E. Marginal Way, Seattle, with $15,422.
SP 11-13. Previous report 10-16

HEATING PLANT IMPROVEMENTS— Rexburg, Idaho
(Estimated cost $14,950)

Work is being done by the maintenance staff at Ricks College in Rexburg, on improvements to the heating plant behind the administration building at the college, according to John L. Clarke, president of the college. Included in the work is installation of a stoker, dust collector, induced draft furnace and combustion controls.
SP 11-8. Previous report 10-26

MONTANA

MEN'S DORMITORY— Billings, Mont.

Plans will be complete in early spring of 1958 by Cushing, Terrell & Associates, architects, 1333 N. 27th St., Billings, for a three-story and no basement, 22,000 sq. ft., solid masonry men's dormitory at Rocky Mountain College, 1511 Poly Drive, Billings.

Concrete spread footings, concrete foundation; 37'x170'; solid masonry walls; concrete slab floors; concrete girders, beams, columns; flat roof; frame partitions; concrete stairways; aluminum sash; masonry exterior. plaster interior wall finish; wood trim; plaster and gypsum lath partitions; asphalt tile flooring; acoustical ceilings; wood doors and cabinets; folding doors; incandescent lighting; hot water heating system, gas fired.
SP 11-13. Previous report 10-8

GREELEY SCHOOL ADDITION— Butte, Mont.

Following is additional description on an eight-classroom addition to and remodeling of four existing classrooms at the Greeley School on Silver Bow St. in Butte. Bids will be opened 8 p. m., November 18, by School District No. 1, Administration Office, 111 N. Montana St., Butte. Plans with Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte.

Work consists of razing the existing building, remodeling another building and constructing a building with four wings measuring 98'x47', 86'x40', 98'x47' and 95'x24', respectively. Concrete foundations; pumice block walls and partitions; reinforced concrete columns and beams with prestressed concrete channels to form roof deck; face brick exterior; glass block; built-up roofing; asphalt tile, vinyl tile and ceramic tile flooring; aluminum sash; hot water heating system with heating and ventilating units and fin-tube radiation.
EE 11-8. Previous report 10-29

★BUILDING COMPLETION, REMODELING WORK— Butte, Mont.

Award announced by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for completion of and remodeling to the Petroleum Engineering Bldg. and the Main Hall at Montana School of Mines in Butte. Plans by J. G. Link & Co., architects and engineers, 111 N. Montana Ave., Butte. Bids opened November 7. AWARD: Cahill-Mooney Construction Co., Box 398, Butte, $57,856 ($40,181 alt. 1 on petroleum building, $3,189 alt. 2 on same, $130 alt. 3 on same, $14,356 basic on main hall work). Cahill-Mooney submitted a basic bid of $85,923 on petroleum building and was second low bidder before selection of alternates. OTHER BIDDERS: Hammond-Everly Construction Co., Box 201, Butte, $79,895 (basic), $41,621 (alt. 1), $3,287 (alt. 2), $160 (alt. 3), $15,335 (basic on main hall work); Huckaba-Lutey, Whitehall, $88,221, $43,680, $3,374, $132, $12,557; Paul Olsen Contractor, 1877 Phillips Ave., Butte, $91,328, $42,326, $3,668 $145, 13,817; J. Knuckey Construction Co., 628 S. Montana, Butte, $91,776, $43,782, $3,435, $145, $14,196.

COMPLETION WORK: Consists of work on second floor of the building which was not finished at time of construction. Concrete floors will be leveled for installation of tile flooring; partitions of steel with lath and plaster will separate floor space into 15 rooms, including classrooms and janitor service rooms; lighting, plumbing, painting included; acoustical tile treatment on ceilings. MAIN HALL REMODELING: Consists of acoustical tile on ceiling; asphalt tile on floors; section of basement wall to be replaced with reinforced concrete footings to strengthen building foundation; painting, lighting included.
LS 11-9. Previous report 11-2

CAPEHART HOUSING IN HAWAII

Award to M. J. Brock & Sons, Inc., 2894 Rowena Ave., Los Angeles, Calif., $4,123,470, by Corps of Engineers, Honolulu District, Box 2240, Honolulu, T.H., for construction of a 250-unit Capehart armed services housing project at Fort Shafter and Tripler Army Hospital, Oahu; Inv. No. 58-2.
SP 11-13. Previous report 10-29

UNEMPLOYMENT COMPENSATION BUILDING— Butte, Mont.

Estimated cost of the proposed one-story and partial basement, 40'x80', poured concrete unemployment compensation building to be constructed in Butte is $66,000. Bids will be opened 10 a. m., November 21, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena. Plans with J. G. Link & Co., architects and engineers, 111 N. Montana Ave., Butte. $25 deposit. Bid bond 5%.

Reinforced rectangular footings, cantilever pilaster footings; 4,680 sq. ft. area; concrete foundation walls; concrete basement floor, frame main floor; timber girders, beams, columns; flat roof, built-up roofing, wood deck; frame partitions; wood stairways; aluminum sash; three sides concrete block exterior wall finish, one side face brick; drywall partitions; asphalt tile flooring; acoustical tile ceilings in offices; wood and aluminum doors; wood cabinets; 1" rigid insulation in roof; fluorescent lighting; refrigeration; hot air heating system, gas fired.
SP 11-13. Previous report 11-7

HATCHERY REPAIRS— Creston, Ennis, Mont.
(Estimated costs $188,000 Creston, $62,000 Ennis)

It is hoped that funds for hatchery repairs at the Creston and Ennis stations will be included in the Fish and Wildlife Service budget requested for the year beginning July 1.
SC 11-9

CONVENT, CHURCH REMODELING— East Helena, Mont.

Building fund campaign underway by Sts. Cyril and Methodius Parish, Rev. C. W. McCarthy, pastor, East Helena, to raise funds to finance construction of a convent residence for St. Ann's School and for repairs and remodeling the parish church at 102 W. Riggs St. in East Helena.
LS 11-12

HOSPITAL— Great Falls, Mont.
(Estimated cost $1,900,000)

The City Council, City Hall, Great Falls, has approved the transfer of 8.4 acres of city-owned land in Highland Park to Cascade County as the initial tract in the site for the new Cascade County Convalescent Hospital. Plans for the hospital are underway by Knight & van Teylingen, architects, Medical Arts Bldg., Great Falls. Bids will be called about April 1958 by the county commissioners.
SC 11-9. Previous report 11-5

■ ELEMENTARY SCHOOL— Havre, Mont.

Planholders announced for construction of the one-story and no basement, 14,000 sq. ft., solid masonry Highland Park Elementary School at Havre. Bids will be opened 2 p. m., November 19, by School District No. 16, Hill County, Havre. Plans with Knight & van Teylingen, architects, 305 Masonic Temple Bldg., Havre.

Planholders—GENERAL: Morgen & Oswood Construction Co., Box 225, Glasgow; Commercial Builders, Williston, N. Dak.; C. B. Lauch Construction Co., Box 724, Great Falls; Gens Construction Co., Box 546, Great Falls; Zion Construction Co., 3016 5th Ave. N., Great Falls; Leigland Co., Box 1862, Great Falls; Eskestrand Bros. Construction Co., 215 Masonic Bldg., Havre; Chris Fuglevand Co., 519 4th St., Havre; Smitt Construction Co., Williston; Riordan-Witty Construction Co., 815 25th Ave. N., Great Falls; Sletten Construction Co., Box 1188, Great Falls. MECHANICAL: Kalispell Plumbing and Heating Co., 333 1st Ave. E., Kalispell; J. A. McCauley Plumbing and Heating Co., 424 2nd St., Havre. ELECTRICAL: Electric Supply Co., 412 1st St., Havre; Havre Electric Co., 317 3rd St., Havre.

Concrete footings and foundation; solid masonry walls; concrete slab floor; timber beams, girders, columns; flat roof; frame partitions; concrete stairways; wood sash; brick exterior, plaster interior wall finish; wood trim; plaster and gypsum lath partitions; vinyl tile flooring; plaster acoustical ceilings; batt insulation in roof; hot water radiant heating system, gas fuel.
SP 11-13. Previous report 11-2

FISH AND GAME COMMISSION BUILDING— Helena, Mont.

The Montana Fish and Game Commission has asked the Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, to designate an architect to help design a building planned on nine lots west of the State Laboratory Building in Helena.
SC 11-9

CATHEDRAL REPAIRS— Helena, Mont.

Fund raising campaign is under the direction of Dr. James J. McCabe, 615 Stuart St., Helena, for $300,000 to finance necessary repairs to the Cathedral of St. Helena, 551 N. Warren, Helena.
LS 11-12

★ROOF RECONSTRUCTION— Kalispell, Mont.

Award to Collins Construction Co., Route 1, Kalispell, $977, by Board of Trustees, Carnegie Library, 2nd Ave. E., Kalispell, for reconstruction of the roof at the library. OTHER BIDS: E. F. Matelich Construction Co., 222 Crestline Drive, Kalispell, $990; Gyrion Construction Co., 94 5th Ave. N.W., Kalispell, $1,143.
RB 11-9

ROCKET STORAGE BUILDING MODIFICATION— Malmstrom AFB, Mont.

Modification of a rocket storage building at Malmstrom AFB, on which bids will be opened 11 a. m., November 29, by U. S. Air Force, Procurement Office, Malmstrom AFB, involves enclosing two 84'x15' and 84'x17' building areas on the east and west sides of the building at the base; Inv. No. 58-21. Specifications call for concrete block walls; steel roof joists and steel decking; eight 10'x10' rolling steel doors installed in the new area. Work is to be completed in 120 days.
SC 11-8. Previous report 11-6

▲PAINTING BUILDING— Malmstrom AFB, Mont.

Five bids were received by U. S. Air Force, Procurement Office, Malmstrom AFB, for painting the exterior of the air base exchange building. Bids opened November 8. LOW BIDS: Peder Evenson Co., 2100 2nd Ave. S., Great Falls, $945; Melvin L. Hammett, 1209 5th Ave. N., Great Falls, $1,548; Nick Theisen, 412 16th St. N., Great Falls, $1,787.
SP 11-13. Previous report 10-29

●BUILDING REMOVAL— Malmstrom AFB, Mont.

Bids will be opened 2 p. m., December 3, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for purchase and removal of ten one-story frame buildings at Malmstrom AFB. Specifications with above office. Prospective bidders may inspect the buildings by contacting the office of the installations engineer at Malmstrom AFB from 8 to 11 a. m. and 1 to 3 p. m. Monday through Friday until November 29.

The buildings are theater of operations type structures. They include three latrine and shower buildings, 18'x24' and three 20'x24'; three airmen's dormitories, 20'x100', and one 20'x84' administrative office.
SC 11-13

★RESIDENCE— Malta, Mont.

Award to Meredith Construction Co., Malta, $15,897, by U. S. Fish and Wildlife Service,

The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for construction of a three-bedroom frame residence complete with basement, water supply line and sewer line at the Bowdoin National Wildlife Refuge at Malta. WB 11-13. Previous report 10-31

● BUILDING INSULATION—
Opheim Air Force Station, Mont.

Bids will be opened 11 a.m., November 25 by Malmstrom Air Force Base procurement office at Malmstrom base, for pneumatic placement of insulation in exterior walls of seven buildings at Opheim Air Force Station, Mont.; Inv. No. 59-27. Plans with Malmstrom procurement office.

Bidding was scheduled earlier on similar jobs at Havre and Cut Bank air force stations for opening date of November 20 under Inv. Nos. 58-24 and 58-25. DC 11-12

★EMPLOYEE HOUSING—
Warm Springs, Mont.

Awards announced by State Board of Examiners, G. L. Bryant, executive secretary, Capitol Bldg., Helena, for construction of the one-story and no basement, 41'x29' duplex housing units, a total of eight units to be used by employees, at the site of the State Hospital at Warm Springs. Plans by J. G. Link & Co., architects and engineers, 111 N. Montana St., Butte. Bids opened November 7. GENERAL—AWARD: Treasureton Construction Co., Anaconda, $182,300 (conventional construction). Treasureton also bid $184,300 for prefabricated construction. OTHER BIDDERS: C & M Construction Co., 2160 Central Ave., Billings $183,640, $194,990; Huckaba-Lutey Construction Co., Whitehall, $184,464, $189,455; Cahill-Mooney Construction Co., Box 398, Butte, $191,000, 196,000; L. P. Barney Construction Co., 1000 Waukesha, Helena, $192,000, $193,000; Hammond & Everly Co., Box 201, Butte, $198,650, $198,650. MECHANICAL (No alternate bids were submitted on this contract)—AWARD: Byers Plumbing and Heating, 1618 E. Lyndale Ave., Helena, $36,219. OTHER BIDDERS: Schmidt Plumbing and Heating, Anaconda, $37,250; Budd Plumbing and Heating, 317 E. Mendenhall, Bozeman, $38,990; Industrial Plumbing and Heating, 2503 Grand Ave., Billings, $39,163; Fullerton Plumbing and Heating, 401 N. Main, Hamilton, $42,795; Missoula Hardware and Plumbing, 228 N. Higgins, Missoula, $52,013; Murphy Plumbing and Heating, 121 W. Broadway, Butte, $62,000. ELECTRICAL — AWARD: Curley - Naylor Electric Co., 123 N. 16th, Billings, $10,751 (basic). Curley-Naylor also bid a $16,000 alternate for prefabricated units. OTHER BIDDERS: Sundberg Electric, 102 E. Park St., Butte, $11,150, no bid; Salisbury-Schruger, Deer Lodge, $12,200, $20,000; Western Montana Electric Co., 205 W. Broadway, Missoula, $12,500, no bid.

Concrete footings and foundation; frame walls; concrete floors; flat roof with slope wood deck, built-up roofing; frame partitions; wood sash; cedar siding exterior wall finish; plaster and wood lath partitions; asphalt tile flooring; plaster ceilings; insulation in walls; gas-fired heating system, individual heating units for each duplex.
LS 11-9. Previous report 10-26

★RESIDENTIAL, SERVICE BUILDINGS—
Yellowstone National Park, Mont.

Award to Newell J. Olson & Sons, 128 S. 1st East, Logan, Utah, $270,175, by National Park Service, for construction of residential buildings and service buildings in Yellowstone National Park. The project is part of the Mission 66 program to provide visitor facilities and adequate quarters for park personnel. An eight-unit apartment building for the Lake Lodge area, five employe residences at Mammoth, a wash house for the employe trailer village at Old Faithful and a camp manager's residence in the Fishing Bridge area will be constructed under the contract. Also included are four comfort stations to be constructed in the Fishing Bridge campground to increase facilities and service for campers. SC 11-9

ALASKA

MENTAL HOSPITAL— Anchorage, Alaska
(Estimated cost $6,500,000)

A federal grant of $110,000 has been approved by Federal Housing and Home Finance Agency for preparation of plans for the proposed 240-bed mental hospital to be constructed on an 80-acre tract near Goose Lake, southeast of Anchorage. Construction is scheduled to start in April, 1959, according to Territorial Department of Health, 327 Eagle, Anchorage. Earlier this year congress approved $6,500,000 in federal funds to finance the project.

The Anchorage City Council has assured the health department that city water and sewer lines will be extended. City Manager George Shannon has indicated that the utility extensions to the hospital site will be located near the hospital. Cost of the utility extension will be about $200,000.
SC 11-8. Previous report 8-28

STORAGE BUILDING REHABILITATION—
Wales AF Station, Alaska

Invitation for bids has been cancelled by U.S. Air Force, First Lieut. William J. O'Neil, contracting officer, Ladd AFB, Alaska, for rehabilitation of a water storage building at Wales Air Force Station; Inv. No. 58-18. The work had been scheduled for bidding November 7. SC 11-9

▲ANTENNA FARM— Burns, Ore.

Bids received by U. S. Air Force, Procurement Office, Geiger Field, for construction of antenna farm at the 634th AC&W Squadron, Burns, Ore.; IFB 58-29. Bids opened November 6. BIDDERS: John L. Nielsen Construction Co., Box 336, Grandview, Wash., $10,240; Sierra Electric, 1269 N. Russell, Portland, $15,140; Duke's Electric Service, Box 35, Pasco Airport, Pasco, $15,739; Power City Electric, N. 920 Howard, Spokane, Wash., $18,685.
LL 11-

● SEWERAGE LAGOON, FORCE MAIN— Burns, Ore.

Bids will be opened 2 p. m., December 3, by City Council, City Hall, Burns, for construction of a sewerage lagoon, pump and force main. Plans may be obtained from Clark & Groff, consulting engineers, 2[illegible] Triangle Drive, Salem. $35 deposit.

The lagoons will be about one and a half miles from Burns and will cover about [illegible] acres. This project is the second phase of a sewerage program. Construction is underway at the present time on sewers in the city.

Work is divided into three schedules: Sched. L—Lagoon. Involves 47,000 c.y. excavation and embankment for primary lagoon; 35,500 c.y. excavation and embankment for secondary lagoon. Sched. S—Force Main. Involves 7,870' of 12" main. Sched. P—Sewage Pumps. Involves two 750-gal. per minute pumps installed in existing pumphouse.
DC 11-[illegible]

● SUBSTATION— DeMoss Springs, Ore.

Bids will be opened 3 p. m., November 2[illegible] by Bonneville Power Administration, 1[illegible] N.E. Lloyd Blvd., Portland, for construction of the DeMoss Substation, ½ mi. west of DeMoss Springs, Sherman County, Ore.; Inv. No. 8578. Specifications with above office. Bid bond 25%.

Quantities: 1,500 c.y. excavation and grading; 500 c.y. structural excavation; 110 c.y. reinforced concrete footings; 41,500 lb. steel erection; installation of station equipment; 465 c.y. crushed rock; painting electrical equipment.
SP 11-[illegible]

● FIRE HOSE— Hillsboro, Ore.

Bis will be opened 8 p. m., December [illegible] by J. W. Barney, city manager, City Hall, Hillsboro, for 500' of 2½" double jacket, waterand gum treated, rubber lined fire hose with brass couplings having rocker lugs. Specifications with above office.
WB 11-[illegible]

SEWER SYSTEM— Jacksonville, Ore.

Bond issue for $200,000 was defeated in the November 5 election held by City Council, City Hall, Jacksonville, to finance construction of a sewer system for the city. SC 11-[illegible]

● CONCRETE SEWER PIPE—John Day, Ore.

Bids will be opened 11 a. m., November 26, by U. S. Forest Service, Frank Wallisch, regional supply officer, 729 N.E. Oregon St., room 114, Portland, for furnishing 1,030' of 4", 630' of 6" and 120' of 8" bell and spigot non-reinforced concrete sewer pipe with rubber seal ring, fob John Day, Ore.; Inv. No. 174.
WB 11-[illegible]

★FLIGHT APRON REPAIR—
Kingsley Field, Ore.

Award to Charles R. Watts Co., 2121 6th Ave. N.W., Seattle, Wash., $3,545, by U.S. Air Force, Purchasing and Contracting Office, room 120, Bldg. 128, Kingsley Field, Klamath Falls, for repair and filling of cracks on about 14,000' of operational flight apron at Kingsley Field.
ZZ 11-13. Previous report 11-[illegible]

★STORAGE AREA PREPARATION—
Kingsley Field, Ore.

Award announced by U.S. Air Force, Contracting Office, Kingsley Field, Klamath Falls, for preparation of a storage area, adjacent to Bldg. 226, for heavy equipment and pipe installation at Kingsley Field; Inv. No. 58-6. Bids opened November 5. AWARD: Arthur H. Patterson, Jr., 2074 Earle St., Klamath Falls, $6,284. OTHER BIDDERS: M. D. Gunderson, 5350 Shasta Way, Klamath Falls, $8,980; Pinniger & Watkins, 1430 Klamath Ave., Klamath Falls, $9,790.

ENGINEERING NEWS

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

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

OREGON

★COMMUNICATIONS EQUIPMENT—
Bonneville, Ore.

Award to Motorola Communications and Electronics, Inc., 3833 N.E. Union Ave., Portland, $1,400, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for communications equipment, including two radiophones, one utility base station, one power pack, two plug-in and microphone connections, one headset and microphone kit and one carrying case, fob Bonneville; Inv. CIVENG-35-026-58-51. Bids opened October 17. WB 11-13. Previous report 10-9

● DIESEL ENGINES— Bonneville, Ore.

Bids will be opened 11 a. m., November 21, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for two diesel engines, capable of delivering a minimum intermittent rating of 1,850 brake hp. at 1,200 rpm. at the output of the reduction gear, complete with accessories, fob Bonneville; CIVENG-35-026-58-71. WB 11-9

● REHABILITATING WELL—Brothers, Ore.

Bids will be opened 2 p. m., November 19, by Bureau of Land Managament, 1001 N.E. Lloyd Blvd., Portland, for cleaning and rehabilitating a well near Brothers in eastern Deschutes County; Inv. No. 887. WB 11-9

Work to include installation of two reinforced concrete catch basins and 280' of 18" reinforced concrete pipe; importation and compaction of 750 c.y. fill materials; construction of one planked railroad crossing; construction of covered storm drain with installation of 550' of 24" corrugated metal pipe with catch basins, frames and grates. Quantities for the latter work include 55 c.y. trench excavation and importation of 660 c.y. fill. Construction area is to be seeded. ZZ 11-13. Previous report 10-11

SEWERS— Klamath Falls, Ore.

Bond issue for $1,800,000 was approved in the November 5 election held by South Suburban Sanitary District to finance installation of sewers in the area, including about 250,000' of 8" to 36" sanitary sewer pipe, a pumping station and oxidation treatment pools, at Klamath Falls. Working drawings are underway by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Bids will be called by late spring with the installation to be in operation by 1959. SC 11-9

★ROAD CONSTRUCTION— Lakeview, Ore.

Award by U. S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland (P. O. Box 4137), for construction of approximately 5.2 mi. of Trunk Road No. 2913-5, approximately 40 mi. northwest of Lakeview, Lake County, Fremont National Forest, Ore.; Bid No. 133. Bids were opened October 16, but not announced at that time due to some errors in the bids. AWARD: Lakeview Logging Co., Lakeview, $79,256. OTHER BIDS: R. A. Briggs & Son, Bly, $85,775; Loveness Logging Co., Canby, Calif., $88,089; Greene & Buick, 275 State St., Salem, $105,132; George R. Stacy, Klamath Falls, $129,860; Fred H. Stegeman, 455 "A" St., Lebanon, $132,270; S. & A. Logging Co., Foster, $141,859; G. Frank King, 5829 S.E. Long St., Portland, $142,507; M. J. Coleman, Inc., Ukiah, Calif., $147,138; C. H. Strong Engineering & Construction Co., Box 366, Eugene, $170,732.
WB 11-13. Previous report 10-19

●RANGE STRUCTURES—North Bend, Ore.

Bids will be opened 2 p. m., November 22, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of a four pile and nine pile range structures, including daymarks, for Jarvis Upper Range 2 Coos Bay Channel, North Bend, Ore.; FS-1680. Specifications with above office. Bid bond 5%. SP 11-9

LEVEE WORK— Pendleton, Ore.

Bids will be called between January and March by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for levee work at Pendleton. The Pendleton City Council has committed the city to no more than $18,000, to come from the 1957-58 budget, for improvement of N.W. Bailey Ave. in Pendleton, in connection with the levees project. Northwest Bailey Ave. would be 26' wide with paving of the 750' avenue to cost an estimated $6,000. The council allowed in addition $8,000 for a revetment and $1,000 for a storm sewer, both of which are required by the Corps of Engineers in connection with the levee project. Work would start next spring after high water. SC 11-13

★MUCK SAND, CRUSHED ROCK— Portland, Ore.

Awards by city purchasing agent, 208 City Hall, Portland, for 35,000 c.y. ½" minus and 2,000 c.y. ¼" minus crushed gravel, and for 8,000 c.y. muck sand. AWARDS—GRAVEL: Willamette Hi-Grade Concrete Co., Foot of N. Portsmouth St., Portland, $90,950. SAND: Portland Gravel Co., 10717 S.E. Division St., Portland, $12,000.
WB 11-8. Previous report 10-25

▲SEPTIC TANK, DRAIN FIELD— Portland, Ore.

Bids received by Marvin Witt, Jr., architect, 909 Failing Bldg., Portland, for installation of septic tank and drain field at Happy Valley School, School District No. 99, 13865 S.E. King Road, Clackamas County. LOW BIDS: Peterson Plumbing & Heating Co., 147 E. Powell Blvd., Gresham, (Basic) $5,526, (Deductive alternate) $40; Milwaukie Plumbing & Heating Co., 1912 Monroe St., Milwaukie, $5,529, $60; Cliff Benson, 4427 S.E. Monroe St., Milwaukie, $5,975, $60. Bids opened November 6.
WB 11-9. Previous report 10-25

★TAPPING SLEEVES, VALVES, METER BOXES— Portland, Ore.

Award to Thompson Metal Fab, 2054 N. Vancouver Ave., Portland, $4,039, by city purchasing agent, 208 City Hall, Portland, for 125 steel meter box frames and covers. Award pending on mechanical joint tapping sleeves and valves.
WB 11-8. Previous report 10-26

★SNOW PLOW— Portland, Ore.

Award to Cramer Machinery Co., 1140 S.E. 7th Ave., Portland, $1,098, by city purchasing agent, 208 City Hall, Portland, for snow plow with 9' blade to be mounted on truck.
WB 11-8. Previous report 10-29

★ASPHALT— Portland, Ore.

Award to American Bitumuls & Asphalt Co., 5501 N.W. Front Ave., Portland, $67,500 for paving asphalt and $77,300 for liquid asphalt, by city purchasing agent, 208 City Hall, Portland, for calendar year 1958.
WB 11-8. Previous report 10-22

★SIGN POSTS— Portland, Ore.

Award to Traffic Safety Supply Co., 2636 N.E. Sandy Blvd., Portland, $5,775, by city purchasing agent, 208 City Hall, Portland, for 1,500 galvanized steel channel sign posts, 11' long. WB 11-8. Preivous report 10-29

★SURFACING— Portland, Ore.

Award to Umpqua River Navigation Co., Reedsport, $101,558, on alternate Schedule B, Item 200(1), using gravel, by Bureau of Public Roads, B. M. French, regional engineer, Box 3900, Portland, for surfacing 6.696 mi. Oregon Timber Access Road Project BLM 621-A1, Middle Creek Road, Bureau of Land Management-Coos Bay District, Coos County, Ore. WB 11-9. Previous report 10-11

●POWER SWEEPER— Portland, Ore.

Bids will be opened 2 p. m., November 20, by city purchasing agent, 208 City Hall, Portland, for furnishing one new power sweeper for Bureau of Municipal Paving Plant. Certified check or bid bond 10%.
WB 11-9

●CEMENT— Portland, Ore.

Bids will be opened 2 p. m., November 19, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing cement for all bureaus of the city. Certified check or bid bond 10%. WB 11-9

▲GRADING, SURFACING, PAVING— Portland, Ore.

Bids received by Bureau of Public Roads, B. M. French, regional engineer, 757 Morgan Bldg., Portland, for grading, surfacing and bituminous paving 0.215 mi. Oregon Forest Development Road Project Willamette 2104-A, Greenwater Acceleration Strip, Willamette National Forest, Lane County, Ore. BIDDERS: C. Vern White, Lowell, $6,682; Central Heating Co., Oregon Limited, 102 High St., Eugene, $8,119; Harold F. Halstead, Box 157, Oakridge, $10,648; C. H. Strong Engineering & Construction Co., P. O. Box 366, Eugene, $14,260. Bids opened November 7. WB 11-9. Previous report 10-30

●DREDGING— Portland, Ore.

Bids will be opened 10 a. m., November 22, by Commission of Public Docks, 3070 N.W. Front, Portland, for dredging about 64,115 c.y. silt and sediment from Berths 1, 3, 4 and 6 at Terminal No. 21 and from Berth 2 at Terminal No. 2, both in northwest Portland. Specifications with above office.
WB 11-12

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards announced by Oregon State Highway Commission, Salem, for two highway projects on which bids opened October 31 in Portland.

GRADING, OILING, BRIDGE — MORO — Grading and oiling and constructing one reinforced concrete bridge, Moro Junction-Monkland section of Monkland County Road, about 1.2 mi. north and east of Moro, Sherman County; FAP No. S-43(2).

AWARD: Breene & Buick, Inc., 275 State St., Salem, $96,328.

BRIDGE, CHANNEL CHANGE—THOMAS CREEK—One three 19' span bridge of precast concrete sections on treated pile trestle and 2,000' of channel change on Klamath Falls-Lakeview Highway, two mi. west of Lakeview, Lake County, Ore.; a State Project.

AWARD: Inter City Sand and Gravel Co., Inc., 3698 Franklin Blvd., Eugene, $17,462.
SP 11-12. Previous report 11-2

RUNWAY, TAXIWAY— Portland, Ore.

(Estimated cost $500,000)

Bids for the sale of $500,000 worth of bonds will be received by the Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland, to finance construction of a second major runway and taxiway at Portland International Airport. The runway will be located north of and parallel to the present main runway. No date has been set for receiving construction bids. WB 11-13

■WELLS, LEVEE WORK, PIPE— Portland, Ore.

Planholders announced by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for installing relief wells, exploring a levee section, constructing new foundation and relocating existing pumping plant, relocating 30" and 36" discharge pipes and furnishing and installing additional pipe, strengthening the levee and levee toe in the vicinity of existing pumphouse, all located along the Columbia Slough, Peninsula Drainage District No. 2, north of Portland, Multnomah County, Ore.; CIVENG-35-026-58-70. Bids will be opened 2 p.m., December 3, by Corps of Engineers, Portland District, 628 Pittock Block, Portland.

Planholders: C. J. Eldon, P. O. Box 5686; LeBeck & Son, 4600 S.E. Belmont; J. Bacaloff Co., 6009 N.E. 60th Ave.; Vernie Jarl, Box 507, Gresham; John M. King Co., 1601 Taylor Way, Tacoma; R. A. Heintz, 211 N.E. Columbia Blvd.; Scheewe Tug & Dredge, Route 2, Box 1274, Camas, Wash.; Russell M. Espedahl, 5906 N. Greeley Ave.; MiVan, 524 S.E. Main St.; J. N. Conley, 4332 N.E. Royal Court; Hatfield & Green, 141 Barclay Court; Oregon City; Schrader Construction Co., 3030 S.E. Hawthorne Blvd.; Palmberg Construction Co., P. O. Box 991, Astoria; Floyd Grahm Construction Co., P. O. Box 341, Lebanon; Teeples & Thatcher, 8850 S.E. Otty Road; Hannan Bros. Co., 3525 N.E. Going St.; C. J. Montag & Sons, 7807 N.E. Halsey St.; General Construction Co., Box 3860; Kuckenberg Construction, Box 7407; George Chicha Co., E. 2917 Sharp, Spokane; M. K. Buick, 634 Wayne Drive, Salem; C. H. Strong, Box 366, Eugene; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave.; Elte Construction Co., Boring; Erland & Blickle, Box 1945; Harbert Bros., Estacada; Todd Construction Co., 9335 S.W. Fir Grove Lane; Willamette Tug & Barge Co., Foot of N. Portsmouth Ave.; American Pipe & Construction Co., P. O. Box 1898, 518 N.E. Columbia Blvd.; John W. Stang Corp., 8221 Atlantic Ave., Bell, Calif.; Pacific Concrete Co., Box 7616;

Natt McDougall Co., 824 Pittock Block; John Kovtynovich, 395 Skyline Loop, Eugene; H. G. LeVelle, 10430 S.E. Bush St.; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave.; Luhr Bros., Inc., Columbia, Ill. Of Portland unless noted.
WB 11-13. Previous report 11-7

★PAVING— Roseburg, Ore.

Award to Roseburg Paving Co., 536 W. Maple St., Roseburg, $8,206, by City Council, City Hall, Roseburg, for paving Upper Terrace Drive at Roseburg. Work will include 625 c.y. excavation, 450' concrete curb and gutter, 736 c.y. rock and 2,370 sq. yd. asphaltic concrete. SP 11-13. Previous report 11-5

COMMERCIAL STREET EXTENSION— Salem, Ore.

Plans will be completed in 1958 for the proposed extension of Commercial St. north to Chemawa Road in Salem, according to Robert Powell, chairman of the Mid-Willamette Valley Planning Council. The two-lane arterial would extend through Jack St. N., Manbrin Gardins, into Rivercrest Drive N., paralleling River Road N.E., in Salem.
SC 11-6

★SEWAGE LIFT STATION— Salem, Ore.

Award by Oregon State Board of Control, Room 124, Capitol Bldg., Salem, for construction of sewage lift station and 4,000' of pressure line connecting the sewer system of the new state correctional institution with the system at Cottage Farm, Salem. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. AWARD: E. E. Batterman, 147 N. Commercial St., Salem, $32,700. OTHER LOW BIDS: Salem Sand & Gravel Co., 1401 N. Front Ave., Salem, $34,890; Mac Sharp, 9820 S.W. Eagle Lane, Beaverton, $38,450. Bids opened November 1.
WB 11-9. Previous report 10-16

STREET WIDENING— Salem, Ore.
(Estimated cost $100,000)

Bids will probably be called in summer of 1958 by Oregon State Highway Commission, Salem, for widening of State St. to four lanes, east of 12th St. to the city limits, in Salem. The project would eliminate parking on both sides of State St. east of 17th St. to the city limits, according to City Engineer J. H. Davis. This year's city budget appropriates $25,000 for the widening of State St. Work on the project will not be started until next summer. According to plans drawn by the city, State St. will be widened to 74' between 12th and 15th streets, to 64' from 15th to 17th streets, and 44' from 17th St. to the city limits. This would eliminate parking on State St. east of 17th and require parallel parking on the north side of State St. between 12th and 17th streets.
SP 11-12. Previous report 10-34

PARKING LOT— Salem, Ore.

City street crews are grading an area on the south side of Trade St. between Capitol and Winter streets in Salem to provide parking space for about 100 cars, for Willamette University, 900 State St., Salem. City Engineer J. H. Davis indicated provision of the extra parking space, being developed on university-owned property, would ease the congested parking problems on State and Winter streets. The grading and graveling of the 100'x300' lot is only a temporary measure to help meet the need for extra parking facilities. SC 11-12

▲FENCING, BACKSTOP— Salem, Ore.

Bids received by Department of Finance and Administration, 406 City Hall, Salem, for construction of a chain link fence for the River Road Playground and for construction of a dome type cone shaped softball backstop for Highland Park. Bids opened November 7. BIDDERS: Colorado Fuel and Iron Corp., 1350 N.W. Raleigh, Portland, $1,907 (backstop), $2,439 (fence); Cyclone Fence, 400 N.E. 11th Ave., Portland, $1,941, $2,462; San Jose Steel Co., Inc., 723 N. Tillamook, Portland, $1,936, $2,527.
SC 11-13. Previous report 10-31

■ WELLS, CONCRETE HEAD WALL, FILL— Sandy River, Ore.

Planholders announced for installation of relief wells, furnishing and installation of reinforced concrete pipe, construction of reinforced concrete hand wall, and construction of a pervious fill, along the left bank of the Columbia River immediately downstream from the mouth of Sandy River, Multnomah County, Ore.; CIVENG-35-026-58-68. Bids will be opened 2 p.m., November 19, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for Sandy Drainage District.

Planholders: P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave.; C. J. Eldon, P. O. Box 5686; C. H. Strong, Box 366, Eugene; General Construction Co., P. O. Box 3860; Schrader Construction Co., 3030 S.E. Hawthorne Blvd.; R. A. Heintz, 211 N.E. Columbia Blvd.; A. C. Bardi, 8105 S.E. Duke St.; Russell M. Espedal, 5906 N. Greeley; American Pipe & Construction Co., 518 N.E. Columbia Blvd.; Riverside Construction Co., P. O. Box 3853; Vernie Jarl, Box 507, Gresham; LaVelle Construction Co., 10430 S.E. Bush St.; J. Bacaloff Co., 6009 N.E. 60th Ave.; Pacific Concrete Co., 6009 N.E. 60th Ave.; Pacific Concrete Co., Box 7616; J. N. Conley, 4332 N.E. Royal Court; Standard Construction Co., 13035 N.E. Glisan St.; P. C. Knox, Box 97, Gladstone; Troutdale Sand & Gravel Co., Troutdale; Elte Construction Co., Boring; Nick Spada, 7428 N.E. Alderwood Drive; Harbert Bros., Estacada; Stevenson Construction Co., P. O. Box 206, Salem. Of Portland except as noted.
WB 11-13. Previous report 11-2

SEWAGE SYSTEM— St. Helens, Ore.
(Estimated cost $600,000)

Plans are about 70% complete by N. W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland, for sewage system, including interceptor sewers, two pumping stations, primary sewage treatment plant, and $100,000 storm drainage system. Bid call will be issued about January by Richard E. Singleton, city recorder, City Hall, St. Helens.
WB 11-8. Previous report 12-26

▲SIDEWALK— The Dalles, Ore.

No bids were received for the November 4 opening by John B. Thomas, city clerk-treasurer, City Hall, The Dalles, for replacement of a concrete sidewalk and ramp in front of the fire station and city hall at The Dalles. SP 11-8. Previous report 10-25

★BASKET STAGING— The Dalles, Ore.

Award to Albina Engine & Machine Works, Inc., 2100 N. Albina St., Portland, $2,040, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for two basket staging units, electric motor powered, 120 volt AC, fob Seufert (The Dalles), Ore.; CIVENG-35-026-58-41. Bids opened October 2.
WB 11-13. Previous report 9-20

WASCO DAM— Wapinitia Project, Ore.

Bids will be called in January 1958 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for construction of the 42' earthfill Wasco Dam, containing about 45,000 c.y. material with crest length of 390', and appurtenant structures, located on Clear Creek about 35 mi. west of Maupin, Ore., Wapinitia Project, Ore. Inasmuch as snow conditions at the time of issuance of specifications may make access to and examination of the site of the proposed work difficult, prospective bidders are invited to inspect the site in the near future, in order that they may be informed and in a position to submit a bid when the work is advertised. Completion time 600 days.

Quantities: 12,000 c.y. excavation for access road; 28,000 c.y. excavation for dam and structures; 52,000 c.y. excavation and separation from borrow; 50,000 c.y. embankment; 900 c.y. concrete in structures; 100,000 lb. reinforcement; 15,000 lb. metalwork and equipment; 900 c.y. gravel surfacing for access road; 2,000 c.y. procuring and placing riprap. SP 11-12

WASHINGTON

WATER FILTERING PLANT, PUMPING STATION WELL— Anacortes, Wash.

Work is progressing satisfactorily on the 24,000,000-gal.-per-day central filtering plant and 188,000-gal. pumping station well on Skagit County River Bend Road, which is being constructed by Marine and Industrial Supply, 1121 W. Hanford, Seattle, under a $269,372 contract. Twelve 45' filter tanks, each to handle 2,000,000 gal. per day, have been set in place at the filter plant located on the banks of the river near Avon. Only the mechanical piping work remains to be completed. The second pipeline crossing of the Skagit River has been completed and will be ready for use when the filter plant is completed. ET 11-12. Previous report 8-22

SEWER SYSTEM— Asotin, Wash.

Survey crews under direction of Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, are preparing maps of the Asotin area as part of the planning of a sewer system. When completed, the plans will be submitted to the U.S. Public Health Service for approval. A federal grant of $26,706 is available to assist in financing the work. SC 11-12. Previous report 10-21

▲TANK PAINTING— Battleground, Wash.

Bids received by City Council, City Hall, Battleground, for scraping, cleaning and repainting a 250,000-gal. steel water tank. Bids opened November 5. LOW BID: A. H. Barbour & Son, 2828 N.E. Alberta St., Portland, Ore., $990 (basic), $1,385 (alt.). OTHER BIDDERS: Northwest Tank and Maintenance Co., 1970 Warner, Salem, Ore., $1,025, $1,875; George A. Stutzer & Co., 2354 N.W. 23rd Place, Portland, $1,745, no bid; Hall Erection and Painting Co., 1633 S.E. Ash, Portland, $2,577, no bid; Northwest Protective Coatings, Inc., 7515 N.E. 13th, Portland, $2,835, $4,167.
SC 11-9. Previous report 10-25

DAKIN STREET BRIDGE— Bellingham, Wash.

The Bellingham City Council has decided to delay advertisement for bids on construction of the Dakin Street bridge, which will connect a short area on Dakin with Electric and Alabama streets, until after receipt of cost figures for the Commercial and Young St. culvert and fill and the Central Avenue bridge, now under construction.
ET 11-8. Previous report 10-24

★TREATED TIMBER BRIDGE— Carson, Wash.

Award to Balkwill & Furber, 1217 S.W. 19th Ave., Portland, $12,385, by U.S. Forest Service, Regional Supply Officer, Box 4137, 729 N.E. Oregon St., Portland, for construction of the Panther Creek Bridge, involving a treated timber superstructure approximately 101' long on existing piers and abutments on Panther Creek Road No. N605, approximately 10 mi. north of Carson, Skamania County, Gifford Pinchot National Forest, Wash.; Bid No. 157.
WB 11-13. Previous report 10-31

● TRACTOR WITH BACKHOE—Elma, Wash.

Bids will be opened November 18 by City Council, City Hall, Elma, for furnishing the street and water departments with a new tractor with backhoe. Plans and specifications with city clerk, City Hall.

This is the second bid call. Three firms submitted figures at the original bid opening and all were rejected. DC 11-13

WANAPUM DAM— Ephrata, Wash.

Site has been selected by Grant County Public Utility District, Glenn Smothers, manager, 30 C St. S.W., Ephrata, for the Wanapum Dam. The hydroelectric power project will be located on the Columbia River 16 mi. upstream from Priest Rapids Dam, which is now under construction by the PUD.

Start of construction of Wanapum Dam depends on interest rates at which bonds can be sold and on the need for power in the Northwest. The original cost of building had been estimated at $163,000,000. Including construction, engineering and financing the total cost is now estimated around $240,000,000.

The new dam site is three mi. upstream from Beverly and a few miles below a site previously considered. Priest Rapids, the

other Grant County PUD job, is 24 mi. south of Vantage, Kittitas County.

Wanapum will be a concrete gravity dam with earthfill embankments and will be 170' high with a length of 9,365'. Its initial installed capacity will be 570,000 kw. Powerhouse and spillways will be on the west side of the river, the powerhouse paralleling the the west bank. DC 11-8

▲DEEP DRAINS— Ephrata, Wash.

Bids received by Bureau of Reclamation, Box 368, Ephrata, for construction of deep drains DW239B and DW239C in Block 78, Columbia Basin Project, Wash.; Spec. No. 117C-469. Bids opened November 7. LOW BIDS: Nelson & Haisch, M. Route 2, Pasco, $37,653; Duncan Construction Co., Box 582, Moses Lake, $40,636; Murphy Bros., E. 3728 Broadway, Spokane, $41,692. Engineers' estimate, $53,118.

Work is situated in Grant County about 13 mi. south of Quincy. Features of work: earthwork for 3.9 mi. deep drains with bottom width of four ft.; earthwork for and construction of structures along the drains including drain inlets road crossings and lateral crossing; removing existing concrete pipe and metal pipe along drains.

Quantities: 98,500 c.y. excavation for drains; 3,800 c.y. excavation for structures; 3,000 c.y. backfill about structures; 1,220 c.y. compacting backfill; 1,200 c.y. puddling backfill; 100 c.y. coarse gravel protection 45 c.y. riprap; 25 c.y. sand and gravel or crushed rock bedding; 600' of 12", 114' of 24", 252' of 36", 68' of 42", 218' of 48" asbestos bonded corrugated metal pipe.

SP 11-8. Previous report 10-16

●SOLVENT TANKS, PUMPING FACILITIES— Ephrata, Wash.

Bids will be opened 10 a.m., December 3, by Bureau of Reclamation, Box 368, Ephrata, for furnishing and installing one 10,000-gal. aromatic solvent tank complete with pumping facilities and piping at Royal Field Branch Headquarters, Royal, Wash. (Sched. 1) and for the same work at Franklin Field Branch Headquarters, Mesa, Wash., (Sched. 2), Columbia Basin Project, Adams and Franklin counties; Spec. No. 117C-476. Specifications with above office. Bid bond 10%. SP 11-9

●LATERAL ENLARGEMENT— Ephrata, Wash.

Bids will be opened 10 a.m., December 3, by Bureau of Reclamation, Box 368, Ephrata, for PE 16.4 lateral enlargement, Block 49, about 3 mi. south and 4 mi. west of Othello, Adams County, Wash.; Spec. No. 117C-478. Specifications with above office. Bid bond 10%.

Quantities: 2,800 sq. yd. removing existing concrete lining; 2,000 c.y. excavation for lateral; 3,500 sq. yd. trimming earth foundations for concrete lining; 240 c.y. concrete in lateral lining; 360 bbl. cement; includes moving turnout structure at Station 266+50.

SP 11-9

PUMPING UNITS— Ephrata, Wash.

Bids will be called in December or January by Bureau of Reclamation, Box 368, Ephrata, for four synchronous motor-driven, horizontal, centrifugal-type pumping units, three with a capacity of 51 cfs at a total head of 67' and one with a capacity of 25 cfs at a total head of 67', for the Sand Hollow Pumping Plant, Columbia Basin Project, Wash. SP 11-12

★RADIO EQUIPMENT— Everett, Wash.

Award to Motorola Communications and Electronics, Inc., J. S. Ditty Bldg., Bellevue, $968, by City Council, City Hall, Salem, for furnishing the Fire and Police Signal Department with radio equipment.

HH 11-9. Previous report 11-6

★CABLE— Everett, Wash.

Award to W. G. Mills Co., S. 1206 McClellan, Spokane, $2,986, by City Council, City Hall, Everett, for furnishing the Fire and Police Signal Department with 12,000' of 15 conductor, No. 16 AWG, Soft Drawn Copper Fire Cable, to be furnished in four 3,000' pieces. Bids opened November 4. OTHER BIDDERS: North Coast Electric Co., 171 Jackson, Seattle, $3,264; Bean Electric, Everett, and Greenshields Industrial Supply, 710 Highway 99 North, Everett, $3,372 (identical bids); Belden Electric Co., 2815 Rockefeller, Everett, $3,484.

HH 11-8. Previous report 10-12

●STREET WIDENING, CHANNELIZATION— Everett, Wash.
(Estimated cost $50,000)

Bids will be opened 10 a.m., November 22, by John L. Sugars, city clerk, City Hall, Everett, for improvements of Evergreen Way from 47th St. to 52nd St. by widening and channelization. Specifications with Rod Colvin, city engineer, above address. Certified check or bid bond 5%. HH 11-13

SUBSTATION, SUBMARINE CABLE— Fragaria, Wash.

The Puget Sound Power and Light Co., White-Henry-Stuart Bldg., Seattle, has acquired a site near Fragaria, Kitsap County, for a new substation which will tie into a new submarine cable between Vashon Island and the Kitsap peninsula. The substation is to be built next year. The cable is to be laid soon from Vashon to Fragaria and will furnish the Kitsap peninsula with another power connection with the mainland. It will tie into an existing submarine cable which extends to Vashon Island from a point near Des Moines. SC 11-13

SEWAGE DRAINAGE PROJECT— Hoquiam, Wash.

Carl E. Green & Associates, consulting engineers, 510 Henry Bldg., Portland, have reported that they will recommend to the City Council, City Hall, Hoquiam, at their meeting Tuesday evening, November 12, that all bids be rejected for a new storm water drainage system, new interceptor sewers and lagoon-type sewage treatment facilities. Bids opened October 28 are considered too high and beyond the financial ability of the district. It is expected that a new bid call will be issued in mid-December for opening in mid-January. WB 11-8. Previous report 10-31

●SEWER— Kennewick, Wash.

Bids will be opened 2 p.m., November 18, by City Council, City Hall, Kennewick, for extension of the Kennewick Ave. trunk sewer from Vista Way west. Plans and specifications with Marston Winegar, city engineer, City Hall. $5 deposit.

Work includes replacement of a section of the S. Underwood sewer lateral. Quantities: 900' of 8" and 10" sewer pipe. DC 11-13

●WATER WELL— Leavenworth, Wash.

Bids will be opened 10 a.m., P.S.T., November 19, by Fish and Wildlife Service, The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for drilling, casing and developing a fresh water well at the U. S. Fish Cultural Station near Leavenworth, Wash. Plans with Leo L. Laythe, regional director, Portland office. DM 11-9

●PARK SPRINKLER SYSTEM— Moses Lake, Wash.

Bids will be opened 2 p.m., November 19, by Washington State Parks and Recreation Commission, in the assembly room of the Moses Lake City Administration Bldg., Moses Lake, for installation of a lawn sprinkler system, involving 1,050' of 6" welded, wrapped and dipped pipe, 4,130' galvanized iron pipe, one 500-gpm pumping unit, extension to existing pumping intake and other items, at Moses Lake State Park in Grant County. Specifications were prepared by J. L. Chambers, chief engineer in Moses Lake, and are available from the commission offices at 100 Dexter Ave., Seattle, or from Lloyd Boyle, Moses Lake State Park superintendent, Star Route, Moses Lake.

The work covered by the proposed contract is part of an over-all plan for developing the west ten acres to complete the 30-acre park. Included in the plan are subsequent construction of a bathhouse and 200-car parking strip. The last legislature appropriated $20,000 for work in the present biennium. SC 11-8

PARK COMPLETION— Moses Lake, Wash.

Plans announced by Washington State Parks and Recreation Commission, John Vanderzicht, director, 100 Dexter Ave., Seattle, for expanding Moses Lake State Park to its full acreage. The last legislature appropriated $20,000 for the present biennium for completion of the 30-acre park, 20 acres of which have been developed. The west end of the park will have a complete water system and underground utilities when the project is developed. Installation of a new bathhouse and space for a 200-car parking strip on the west side are included in the development program. SC 11-13

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids will be called at a later date when snow may cover the ground, by Washington State Highway Commission, W. A. Bugge, director, Transportation Bldg., Olympia, on two highway construction projects. Contractors interested in bidding on the work are urged to view the proposed jobs on the ground at this time since snow can be expected to make this inspection uncertain and difficult in the near future.

It is anticipated that the state will permit a contractor to submit bids on one or both of the two projects listed below and to condition his bid upon award of the combination of the two projects. A contractor who submits bids on both projects may, if he desires to provide more favorable bid on the combination of projects, allow for a reduction in the amount of each bid.

Preliminary plans giving approximate quantities for use on this inspection may be obtained from the above office upon written request and payment by certified check, cashier's check or cash $2 deposit. Preliminary plans are on file in the office of the county engineer of Kittitas County and in the offices of the district engineers of the highway department.

KEECHELUS INN TO RUSTIC INN, PAVING—Surfacing and paving four lanes with cement concrete and asphaltic concrete on 5.088 mi. of Primary State Highway No. 2, Kittitas County.

RUSTIC INN TO TOP EASTON HILL, PAVING—Surfacing and paving four lanes with cement concrete and asphaltic concrete on 5.146 mi. of Primary State Highway No. 2, Kittitas County. DM 11-8

■STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced for seven highway construction projects on which bids will be opened 10 a.m., November 19, by Washington State Highway Commission, W. A. Bugge, director, Olympia.

BRIDGE, SURFACING—KACHESS RIVER TO EASTON — Clearing, draining, grading, surfacing with ballast, constructing reinforced concrete slab bridge on 4.72 mi. PSH No. 2, Kittitas County; FAP No. I-002-2(15).

Planholders: Babler Bros., Inc., 4617 S.E. Milwaukie Ave., Portland, Ore.; Alfred De Coria, Box 241, Auburn; Fiorito Bros., 1100 Leary Way, Seattle; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Natt McDougall Co., 824 Pittock Block, Portland; Steelman-Duff, Inc., 7525 N.E. 6th Ave., Portland; Peterson-Sickles, Box 174, Enumclaw; Maurice Gredvig, Box 301, Yakima; Scarsella Bros., 2207 S. 146th, Seattle; Everett McKellar, Box 965, Chelan; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; Snook Bros., Box 687, Corvallis, Ore.; Erickson Paving Co., 14446 Sunset Highway, Bellevue; Soule' Steel Co., Box 3685, Terminal Annex, Seattle; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Darrell Chinoweth, 1417 S. 2nd St., Dayton; Max J. Kuney Co., N. 120 Ralph St., Spokane; John P. Hopkins Co., Inc., Box 247, Mercer Island; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata; Donald M. Drake Co., 1600 N.W. Savier St., Portland; N. Fiorito Co., Inc., 844 W. 48th St., Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; C. E. Oneal, Inc., Box 270, Ellensburg; Russell-Gillett Co., Box G, Cle Elum; J. J. Welcome Construction Co., Box 641, Redmond; Lockyear & White, Inc., Box 687, Longview; J. W. Hardison Co., Box 48, Yakima; Northwest Construction Co., 3950 6th Ave. N.W., Seattle; Thomas Scalzo Co., 3211 Airport Way, Seattle; Carbon Bros., N. 3430 Cook St., Spokane; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Frank G. Baulne, Inc., Box 84, Yardley; Goodfellow Bros., Inc., Box 1337, Wenatchee; J. N. Conley, 4332 N.E. Royal Court, Portland; Hans M. Skov

Construction Co., 343 Liberty Bldg., Yakima; Snitily Bros. Construction Co., Box 671, Wenatchee; Padabau Co., 922 Poplar Place, Seattle; Richter & Day, 6333 School St., Tacoma; S. D. Spencer & Son, 4614 N.E. 72nd Ave., Vancouver; Electric Steel Foundry Co., 1131 W. Hanford St., Seattle; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma.

PORTLAND CEMENT CONCRETE PAVING, ELECTRIC AND SPRINKLER SYSTEMS—SPOKANE—Surfacing, paving with portland cement concrete and asphaltic concrete and installing an illumination system and automatic sprinkler system on 2.039 mi. PSH No. 2, Helena St. to Custer St., Spokane County FAP No. 1-002-6(24) Unit 2.

Planholders: American Bitumuls and Asphalt Co., Box 4602, Portland; Clifton & Applegate, E. 5521 Railroad Ave., Yardley; Donald M. Drake Co., 1600 N.W. Savier St., Portland; Peter Kiewit Sons' Co., Box 1777, Vancouver; Line Material Industries, McGraw-Edison Co., Attn. H. J. Sauer, Milwaukee, Wis.; Murphy Bros., E. 3728 Broadway, Spokane; D. G. Quinton Co., N. 1413 Division, Spokane; Sather & Sons, 1410 N. Howe St., Yardley; Charles R. Watts Co., 4121 6th Ave. N.W., Seattle; Fiorito Bros., 1100 Leary Way, Seattle; Inland Asphalt Co., Box 4116, Station B, Spokane; Northwest Construction Co., 3950 6th Ave. N.W., Seattle; Charles A. Power, Box 1220, Spokane; D. A. Sullivan, Box 37, Parkwater Station, Spokane; Electric Smith, Inc., 123 E. Sprague Ave., Spokane; Febco, Inc., 1545 Franklin Ave., Seattle; Max J. Kuney Co., N. 120 Ralph, Spokane; Power City Electric Co., N. 920 Howard St., Spokane; Gibbons & Reed Co., 825 W. 9th North, Salt Lake City, Utah; Kehne Electric Co., Inc., N. 416 Helena, Spokane; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata.

BITUMINOUS PAVING, CONCRETE SLAB BRIDGES—BELLINGHAM—Clearing, draining, grading, constructing bituminous pavement on frontage roads and cross streets and constructing three reinforced concrete flat slab bridges on 2.123 mi. PSH No. 1, Connecticut St. to Northwest Ave., Whatcom County; FAP No. 1-001-5(20).

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Peter Kiewit Sons' Co., Box 1777, Vancouver; Nelson Construction Co. of Ferndale, Inc., Box 417, Ferndale; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; Pacific Sand and Gravel Co., Box 628, Centralia; Raymond Concrete Pile Co., 2323 N.W. Flanders St., Portland; Thomas Scalzo Co., 3211 Airport Way, Seattle; Washington Asphalt Co., 309 W. 39th St., Seattle; Wilder Construction Co., Inc., 1840 State St., Bellingham; Fiorito Bros., 1100 Leary Way, Seattle; Erickson Paving Co., 14446 Sunset Highway, Bellevue; The Hart Construction Co., 3536 E. 11th St., Tacoma; John P. Hopkins Co., Inc., Box 247, Mercer Island; Herman Kathman, Box 555, Kenmore; Lockyear & White, Inc., Box 687, Longview; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Northwest Construction Co., 3950 6th Ave. N.W., Seattle; Osberg Construction Co., 1232 N. 128th St., Seattle; J. P. Surace Construction Co., 3238 Seaview Ave., Seattle; Allyn & Noah Construction Co., Inc., 14242 Pacific Highway South, Seattle; American Pile Driving Co., Inc., Pier 2, Everett; Snook Bros., Box 687, Corvallis, Ore.; Soule' Steel Co., Box 3685, Terminal Annex, Seattle; C. B. Croy, 2502 Lakeway Drive, Bellingham; L. B. Foster Co., Box 548, Carnegie, Pa.; Harry H. Hawkins, 16274 39th N.E., Seattle; Strong & Macdonald, 4045 Ruston Way, Tacoma.

BITUMINOUS SURFACING, CONCRETE BRIDGES — MOSES LAKE VICINITY — Grading, surfacing, constructing bituminous surface treatment and constructing three reinforced concrete flat slab bridges on 0.187 mi. PSH No. 18 in Grant County; FAP No. 1-002-4(4). Unit 3.

Planholders: Donald M. Drake Co., 1600 N.W. Savier St., Portland; Murphy Bros., Inc., 3728 Broadway, Spokane; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; Raymond Concrete Pile Co., 2323 N.W. Flanders St., Portland; Sather & Sons, 1410 N. Howe St., Yardley; Snitily Bros., Box 671, Wenatchee; The Hart Construction Co., 3536 E. 11th St., Tacoma; John P. Hopkins Co., Inc., Box 247, Mercer Island; Lockyear & White, Inc., Box 687, Longview; Marshall Construction Co., 40 W. Ridgeway, Hermiston, Ore.; American Pile Driving Co., Inc., Pier 2, Everett; Henry Hagman, 4025 E. Trent, Spokane; Hamilton & Thoms, Box 726, Eugene, Ore.; Snook Bros., Box 687, Corvallis; Soule Steel Co., Box 3685 Terminal Annex, Seattle; L. B. Foster Co., Box 548, Carnegie, Pa.; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata.

DRAINING, GRADING, BITUMINOUS SURFACING—WHITE BLUFFS VICINITY—Clearing, draining, grading, surfacing and constructing bituminous surface treatment on 3.734 mi. SSH No. 11-A in Adams, Franklin and Grant counties; FAS No. S-0271(3).

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland; Clifton & Applegate, E. 5521 Railroad Ave., Yardley; J. N. Conley, 4332 N.E. Royal Court, Portland; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Donald M. Drake Co., 1600 N.W. Savier St., Portland; J. W. Hardison, Box 48, Yakima; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Materne Bros. Co., Box 7052, Spokane; Murphy Bros., E. 3728 Broadway, Spokane; C. E. Oneal, Inc., Box 270, Ellensburg; Pacific Sand and Gravel Co., Box 628, Centralia; Sather & Sons, 1410 N. Howe St., Yardley; Standard Asphalt Paving Co., Inc., 119 N. Post, Spokane; Frank G. Baulne, Inc., Box 84, Yardley; James Crick & Sons, Box 102, Yardley; D. A. Sullivan, Box 37, Parkwater Station, Spokane; R. H. Sussex, 2850 State Highway 2A, Bellevue; Ray Weist Contractor, Box 191, Yakima; C & E Construction Co., Inc., Box 1545, Yakima; Glenn Dusky, Box 1156, Moses Lake; Carl Hohner & Sons, Inc., E. 5801 3rd Ave., Spokane; Leo J. Lavin, Coulee City; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; San Jose Steel Co., Inc., 131 W. Massachusetts, Seattle; Louis Shaefer, Box 1186, Quincy; L. W. Vail Co., Inc., Box 847, Pasco; Cherf Bros. and Sandkay Contractors, Inc., Box 938, Ephrata.

GRADING, SURFACING—BURKE WEST, WHITE TRAIL ROADS—Draining, grading, surfacing and constructing bituminous surface treatment on 13.959 mi. Grant County roads; FAS Nos. S-1384(1) and S-1004(4).

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland; Clifton & Applegate, E. 5521 Railroad Ave., Yardley; J. N. Conley, 4332 N.E. Royal Court, Portland; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; J. W. Hardison, Box 48, Yakima; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Materne Bros. Co., Box 7052, Spokane; Murphy Bros., E. 3728 Broadway, Spokane; C. E. Oneal, Inc., Box 270, Ellensburg; Pacific Sand and Gravel Co., Box 628 Centralia; C. J. Painter, Box 51, Pasco; Sather & Sons, 1410 N. Howe St., Yardley; Standard Asphalt Paving Co., Inc., 119 N. Post, Spokane; Pieler Construction Co., Inc., 201 E. 8th St., Port Angeles; Frank G. Baulne, Inc., Box 84, Yardley; The Central Heating Co., 102 High St., Eugene, Ore.; James Crick & Sons, Box 102, Yardley; D. A. Sullivan, Box 37, Parkwater Station, Spokane; R. H. Sussex, 2850 State Highway 2A, Bellevue; Ray Weist Contractor, Box 191, Yakima; Basin Paving Co., Box 1574, Moses Lake; C & E Construction Co., Box 1545, Yakima; Glenn Dusky, Box 1156, Moses Lake; Carl Hohner & Sons, Inc., E. 5801 3rd Ave., Spokane; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; San Jose Steel Co., Inc., 131 W. Massachusetts, Seattle; Louis Schaefer, Box 1186, Quincy; L. W. Vail Co., Inc., Box 847, Pasco; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata.

DRAINING, GRADING, SURFACING — BLOCK 77 FEEDER ROADS—Draining, grading and surfacing on 19.661 mi. Grant County roads; a State Project.

Planholders: Clifton & Applegate, E. 5521 Railroad Ave., Yardley; J. N. Conley, 4332 N.E. Royal Court, Portland; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; J. W. Hardison, Box 48, Yakima; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Materne Bros. Co., Box 7052, Spokane; C. E. Oneal, Inc., Box 270, Ellensburg; Pacific Sand and Gravel Co., Box 628, Centralia; C. J. Painter, Box 51, Pasco; Sather & Sons, 1410 N. Howe St., Yardley; Pieler Construction Co., 201 E. 8th St., Port Angeles; Frank G. Baulne, Inc., Box 84, Yardley; The Central Heating Co., 102 High St., Eugene, Ore.; James Crick & Sons, Box 102, Yardley; D. A. Sullivan, Box 37, Parkwater Station, Spokane; R. H. Sussex, 2850 State Highway 2A, Bellevue; Ray Weist Contractor, Box 191, Yakima; C & E Construction Co., Box 1545, Yakima; Glenn Dusky, Box 1156, Moses Lake; Carl Hohner & Son, Inc., E. 5801 3rd Ave., Spokane; Leo J. Lavin, Coulee City; San Jose Steel Co., Inc., 131 W. Massachusetts, Seattle; Louis Schaefer, Box 1186, Quincy; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata.

SP 11-12. Previous reports 11-1, 11-

★PICKUP TRUCKS— Port Orchard, Wash.

Award to Tide Chevrolet Co., Box 269, Poulsbo, $3,107, by Kitsap County Commissioners, Courthouse, Port Orchard, for supplying two 2-ton pickup trucks for County Road District No. 1. Bids opened October 2.

SP 11-12. Previous report 10-1

★WELDED STEEL PIPE— Port Townsend, Wash.

Award to Beall Pipe and Tank Corp., 1295 N. Burgard, Portland, Ore., $131,597, by City Council, City Hall, Port Townsend, for furnishing and truck-delivering at stockpile site, Quilcene C.C.C. Camp, 11,000' of 20" electric welded steel pipe, coal tar coated and asbestos wrapped. Pipe is to be fabricated in 40' lengths and furnished with flexible couplings. Bids opened November 5. OTHER BIDDERS: American Pipe and Construction Co., Box 1898, Portland, $158,337; Consolidated Western Steel, 1729 Exchange Bldg., Seattle, $181,084.

SP 11-8. Previous report 10-25

★BRIDGE WIDENING— Pullman, Wash.

Award to E. O. Johnson Co., Box 1052, Spokane, $4,228, by City Council, City Hall, Pullman, for widening the bridge over Dry Creek at Grand Ave. and Sunset St., at the base of Pioneer Heights, in Pullman. Bids opened November 5. Work involves the installing of approximately 65' of multiplate pipe arch, or multiplate arch, but will not necessitate taking out the old bridge.

MH 11-8. Previous report 10-22

★PIPE ARCH CULVERT— Pullman, Wash.

Award announced by City Council, City Hall, Pullman, for installing a 60' multiplate arch culvert with concrete footings. Six bids were received November 5. Specifications called for a multiplate pipe arch culvert (Alt. A) or multiplate arch with concrete footings (Alt. B). Award was made on Alt B.

AWARD: E. O. Johnson, Box 1052, Spokane, $4,238 ($3,898 basic plus $340 supplemental item). The firm's Alt. A bid was $4,975. OTHER BIDS: Commercial Builders, Inc., 301 College Ave., Moscow, Idaho, $5,436 (Alt. A), $4,416 (Alt. B), $544 (supplemental item); Stagman & Roberts, N. 1102 Pierce Road, Opportunity, $5,300, $4,550, $270; Herbert Snelgrove, 209 High St., Pullman, no bid, $4,673, $437; Lester N. Johnson Co., Box 81, Yardley, $7,027, $5,831, $433; Murphy Bros., E. 3728 Broadway, Spokane, $7,205, $6,804, $433.

Quantities — ALT. A: 60' multiplate 10 gauge pipe arch; 59 c.y. excavation; 9.6 c.y. crushed rock bedding; 1.5 c.y. concrete; 136 c.y. backfill material (supplemental bid). ALT. B: 8 c.y. excavation; 11.8 c.y. crushed rock bedding; 14.8 c.y. concrete; 120' of ½" reinforcing steel; 136 c.y. backfill material (supplemental bid).

DM 11-12. Previous report 11-1

★WASTE CRIB, CONTROL STRUCTURE— Richland, Wash.

Award to Lewis Hopkins Co., 221 S. 3rd St., Pasco, $39,988, by Atomic Energy Commission, Box 550, Richland, for construction of a waste crib and related work in Hanford Works production area.

Crib will consist of four sections, each 350' long by 20' wide at bottom, with side slopes. A reinforced concrete control structure, approximately 8'x16'x10', is also to be built, including removable concrete cover by interior dividing walls, wood slide gates, vent pipe, and installation of three sluice gates. Related work includes laying carbon steel pipe for underground line from existing to new control structure, and graveling road and parking area.

SP 11-12. Previous report 11-2

★ELEVATED STEEL WATER TANK— Seattle, Wash.

Award to Renton Construction Co., 11604 116th Ave. S.E., Renton, $12,363, by King County Water District No. 75, L. W. Bundy,

secretary, 19873 28th Ave. S., Seattle, for Schedule B involving miscellaneous piping and foundation in connection with the erection of a 250,000-gal. elevated steel water tank near the intersection of 31st Ave. S. and S. 213th in Seattle. Contract on Schedule A, actual erection of the water tank, will be awarded later, as will Schedule C calling for electric controls. Plans by Philip M. Botch, engineer, 710 Cherry Bldg., Seattle.
SP 11-8. Previous report 11-1

●EVAPORATIVE COOLERS—Seattle, Wash.

Bids will be opened November 18 at the Naval Supply Depot, Pier 91, Seattle, for two evaporative coolers for circulating water and lubricating oil, fob Seattle. Specifications available at the depot. SC 11-8

●ASPHALTIC CONCRETE, BITUMINOUS PLANTMIX— Seattle, Wash.

Bids will be opened 9:30 a. m., December 9, by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing asphaltic concrete and bituminous plantmix for year 1958. Specifications with purchasing department, 606 County-City Bldg., Seattle.
SP 11-9

●TAIL GATE SANDERS— Seattle, Wash.

Bids will be opened 9:30 a. m., November 18, by King County Commissioners, 402 County-City Bldg., Seattle, for eight tail gate sanders. Specifications available from the purchasing department, 606 County-City Bldg., Seattle. SP 11-9

●CHECK METERS— 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 6" model DC Hersey detector check meter and one 8" model PM Hersey detector check meter. Specifications with above office. PD 11-9

●ASPHALT CONCRETE— Seattle, Wash.

Bids will be opened 9:30 a. m., November 18, by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing 215 ton Class B asphalt concrete, 2" thick, 20' roadway, with necessary preparations including soil sterilization at the Lakewood Park located at 10th Ave. S.W. and S.W. 108th St. in Seattle. Specifications with purchasing department, 606 County-City Bldg., Seattle. SP 11-9

●SEWER PUMPS— Seattle, Wash.

Bids will be opened 10 a. m., November 18, by Paul R. Hendricks, city purchasing agent, 511 County-City Bdlg., Seattle, for furnishing one 3" and one 4" sewer pump. Specifications with above office. PD 11-9

★METERS— Seattle, Wash.

Award to Hersey Manufacturing Co., 1231 N.W. Hoyt, Portland, $4,725, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle. Bids opened November 4 with Hersey the only bidder.
PD 11-12. Previous report 11-5

★UNDERGROUND UTILITIES ALTERATIONS, ADDITIONS— Seattle, Wash.

Award to Cable Construction Co., 1512 Center St., Tacoma, $11,947, by University of Washington Board of Regents, 303 Administration Bldg., U of W campus, Seattle, for alterations and additions to underground utilities on the campus. Plans by Bouillon & Griffiths, consulting engineers, 1411 Fourth Avenue Bldg., Seattle.

Project involves mechanical work for new cable trays and supports for wiring, new connections of 2.4-kv wiring circuits, new wiring for clock, tunnel lighting and miscellaneous lighting.
SP 11-12. Previous report 11-1

WATER TANK, WATER SUPPLY MAIN— Seattle, Wash.

A $700,000 appropriation has been requested of City Council, Seattle, by city water and engineering departments, for construction of an elevated water tank and a water main in the vicinity of Beverly Park area, at 3rd Ave. S.W. and S.W. 110th streets. Costs are estimated at $400,000 for the tank, and $300,000 for the watermain. The 24" cast iron pipe water supply main is to service the 2,000,000-gal. capacity tank and will connect with existing 20" water main on 8th Ave. S.W. via S.W. 146th St., S.W. 108th, et al. PD 11-13

●CABLE— Seattle, Wash.

Bids will be opened 10 a. m., December 3, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 20,000 of 350-MCM single conductor 5,000-volt butyl rubber insulated shielded neoprene jacketed cable. Specifications with above office. PD 11-13

●VOLTAGE REGULATORS—Seattle, Wash.

Bids will be opened 10 a. m., November 20, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing three single-phase, 60 cycle 19.1 kva voltage regulators. Specifications with above office. PD 11-13

■INTERCEPTOR SEWERS— Seattle, Wash. (Estimated cost $528,055)

Planholders announced for construction of a reinforced concrete pipe sewer on Harbor Ave. S.W., et al; Ord. No. 86138, and construction of a reinforced concrete pipe sewer on Alki Ave., et al; Ord. No. 85829. Bids will be opened 2 p. m., November 20, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle. One contract for both sewers.

Planholders: American Pipe and Construction Co., 1421 N. 135th Place; Pacific Mechanical Constructors, Inc., Lloyd Bldg.; Scheumann & Johnson, Lloyd Bldg.; Harbor Construction Co., 4055 21st Ave. W.; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W.; Peter Kiewit Sons' Co., 1300 Aloha; Joe Lundberg Construction Co., 3420 13th Ave. S.W.; Ace Construction Co., 7516 Roosevelt Way; Harold Kaeser Co., 3629 34th S.; O. R. Alia, 1750 19th Ave. S.; Valley Construction Co., 7722 Rainier Ave.; Frank Coluccio, 7778 Seward Park Ave.; Superior Construction Co., 4610 37th Ave. S.W. All of Seattle. PD 11-13. Preivous report 11-1

★ELEVATED STEEL WATER TANK— Seattle, Wash.

Award to Chicago Bridge and Iron Co., White-Henry-Stuart Bldg., Seattle, $58,715 ($57,815 basic plus $900 alt. 2 for cathodic protection), by King County Water District No. 75, L. W. Bundy, secretary, 19873 28th Ave. S., Seattle, for Schedule A involving erection of a 250,000-gal. elevated steel water tank near the intersection of 31st Ave. S. and S. 213th, Seattle. The only bid on Schedule C, calling for electric controls, was rejected and will be called again about January 1. Contract on Schedule B involving miscellaneous piping and foundation was let to Renton Construction Co., 11604 116th Ave. S.E., Seattle, as announced in PCD 11-8.
SP 11-13. Previous report 11-8

▲ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Bids received by King County Commissioners, County-City Bldg., Seattle, for asphaltic concrete paving 0.35 mi. of 17th Ave. S.W. (Roxbury Ave. to S.W. 100th St.) in White Center, and 0.6 mi. of Beach Drive (South 283rd St. to 1st Ave. S.) in vicinity of Redondo, King County, Wash. Bids opened November 12. BIDDERS—17TH AVE. S.W.: Northwest Asphalt Co., 7343 E. Marginal Way, $5,114; Washington Asphalt Co., 309 W. 39th, $5,150; L. L. Newburn, 6262 14th Ave. S., $6,615. BEACH DRIVE: Rainier Asphalt Paving Co., Maple Valley Highway, Renton, $8,820; Washington Asphalt Co., $9,290; Woodworth & Co., Inc., 1200 E. D St., Tacoma, $9,638; L. L. Newburn, $11,525. Of Seattle unless noted. SP 11-13. Previous report 11-7

▲DRAINING, GRADING, SURFACING— Seattle, Wash.

Bids received by Board of King County Commissioners, 402 County-City Bldg., Seattle, for clearing, draining, grading and light bituminous surfacing of 0.76 mi. Buttle's Road and N.E. 180th St. (Bothell Way to 92nd Ave. N.E.), King County; clearing, draining, grading and surfacing with bituminous roadmix of 0.61 mi. Newport Way (SSH 2-A to 128th Ave. S.E.), King County; and clearing, draining, grading and light bituminous surface treatment of 2.83 mi. of Slater Road (N.E. 90th St. to 140th Ave. N.E.), King County. Bids opened November 12.

Bidders—BUTTLE'S ROAD, N.E. 180TH STREET: Lake City Gravel and Materials, Inc., 10728 Bothell Way, $18,542; Northwest Construction Co., 3950 6th Ave. N.W., $22,766. NEWPORT WAY: Northwest Construction Co., $27,703; Pacific Construction Co., 3002 16th Ave. S., $28,377; J. H. McGrath, 13825 N.E. 20th, Bellevue, $31,566; Doolittle Construction Co., 510 Adams, $36,259. SLATER ROAD: W. J. Halleran, 416 Virginia St., $73,274; J. J. Welcome Construction Co., 10206 Evanston, $74,676; Morrison & Cecotti, Box 388, Mount Vernon, $76,386; Pacific Construction Co., $80,120; Northwest Construction Co., $96,198. Of Seattle unless noted.
SP 11-13. Previous report 11-6

▲ANTENNA SUPPORT TOWERS— Seattle, Wash.

No bids were received for the November 12 opening by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing and installing of one or two 80' antenna support towers.
SP 11-13. Previous report 11-2

●CHAIN LINK FENCING Seattle, Wash.

Bids will be opened 10 a. m., November 21, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing and installing chain link fencing at Garfield Playfield. Quantities: 600' of 4', 10' of 6', 10' of 8', 80' of 10' chain link fence; 85 sq. yd. asphalt paving. PD 11-13

★RECONSTRUCT BRIDGE — Seattle, Wash.

Award to Runnells Industries, 16826 Pacific Highway S., Seattle, $13,943, by King County Commissioners, 402 County-City Bldg., Se-

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attle, for reconstructing existing Flaming Geyser bridge across the Green River, King County. SP 11-13. Previous report 10-29

●TRANSMISSION LINE— Shelton, Wash.

Bids will be opened 3 p.m., January 6, 1958, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the 27.3 mi. Shelton-Fairmount 115-kv line No. 2, Mason County, Wash.; Inv. No. 8582. Specifications with above office. $25 deposit. Bid bond 25%. Project will include wood pole structures and gates, steel towers and conductor and overhead ground wire. SP 11-13

▲EXPLORATION DRILLING— Snake River, Wash.

Bids received by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla, for explorations in vicinity of Lower Monumental Dam site, Snake River, in Franklin and Walla Walla counties; CIVENG-45-164-58-19. Bids opened November 5. LOW BID: Haden Drilling Co., Mtd. Route 2, Pasco, $14,125. OTHER BIDDERS: A. M. Jannsen Drilling Co., 21075 S.W. Tualatin Valley Highway, Aloha, Ore., $14,400; Boyles Bros. Drilling Co., 1321 S. Main St., Salt Lake City, Utah, $17,550; Wilcox Drilling Co., Box 569, McMinnville, Ore., $17,550; E. A. Holman & Son, Inc., 601 S. Pines, Spokane, $37,775. Government estimate, $23,612. SP 11-8. Previous report 11-2

▲FLOOD CONTROL— Spokane, Wash.

Bids received by City Council, City Hall, Spokane, for construction of flood control works on Latah Creek, which flows northward into the city where it joins the Spokane River. LOW BID: Murphy Bros., E. 3728 Broadway, $48,543. OTHER BIDDERS: Carl Hohner, E. 6208 Sharp, $59,504; Colonial Construction Co., 615 W. Mansfield, $61,505; N. A. Degerstrom, E. 15 32nd Ave., $65,364; Lester N. Johnson, Box 81, Yardley, $67,814; Sather & Sons, N. 1410 Howe, Yardley, $70,651; Charles A. Power, E. 3711 Olive, $76,414; M. F. Castle Co., N. 10503 Division, $77,578; William Hilton, E. 41 Gray, $86,898; Clifton & Applegate, Yardley, $88,605. Of Spokane unless noted. SC 11-8

●BANK PROTECTION— Stillaguamish River, Wash.

Bid opening established as 2 p.m., November 19, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for maintenance of bank protective works involving acquiring and placing 5,500 c.y. gravel and 4,700 ton rock riprap at three separate locations, Arlington to Silvana, Stillaguamish River, Wash.; CIVENG-45-108-58-16. Specifications with above office. SP 11-12. Previous report 10-30

▲SURVEY DATA, MAPS— Tacoma, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for survey data and maps for the Tacoma-Covington section of Tacoma-Grand Coulee transmission line No. 1; Inv. No. 8570. BIDDERS: N. Henry Gellert, Lyon Bldg., Seattle, $5,992; Gibson, Jackson & Prochnau, Albany, Ore., $8,800; E. A. Messer & Associates, 2nd and Walnut streets, Hillsboro, Ore., $8,940; Tuttle Engineering Co., Arcadia, Calif., $8,990; Hege & Huston, 10154 S.W. Parkway, Portland, $13,300; Key Construction Co., 1601 Taylor Way, Tacoma, $14,879. Bids opened November 5. WB 11-8. Previous report 10-22

●POWER LINE— Tacoma, Wash.

New bid date established as 2:30 p.m., November 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for clearing and construction of 6.3 mi. of the Tacoma-Cowlitz 230 kv tap line terminal, Pierce County, Wash.; Inv. No. 8464. Plans with above office. Bids were previously scheduled for opening last August 15 but the bid opening was indefinitely postponed.

Location—Sec. A: Tacoma-Cowlitz tap line from site near South Tacoma Switching Station to Tacoma-Cowlitz Substation dead-end structure. Sec. B: South Tacoma tap line terminal within South Tacoma Switching Station.

Quantities: clearing to width of 125'; constructing 7 sta. of 12' access road plus ditches; furnish, place 22' of 18" culvert; 50 pipe frame or metal panel gate; install electric equipment. SP 11-9. Previous report 8-14

★CAST IRON WATER MAINS— Tacoma, Wash.

Award to Paine & Gallucci, Inc., 1521 S. Grant, Tacoma, $8,621 (proposal 1, bell and spigot cast iron pipe), by Board of Contracts and Awards, 204 City Hall, Tacoma, for construction of 6" and 8" cast iron water mains in LID No. 5286. PD 11-9. Previous report 10-15

●BACKHOE— Tacoma, Wash.

Bids will be opened 9 a.m., November 25, by D. G. Markley, purchasing agent, room 500, Court House, Tacoma, for furnishing and delivering one heavy duty industrial type backhoe, Ottowa model DX with 18" bucket or equal, fob Lakeview Shops, 11517 S. Pacific Highway, Tacoma. Specifications with above office. SP 11-12

▲REINFORCED CONCRETE BRIDGE— Tacoma, Wash.

Following is the complete list of bids received, and subsequently rejected, by Pierce County Commissioners, Courthouse, Tacoma, for construction of reinforced concrete bridge over Day Island Lagoon and the Northern Pacific Railway between Station 1+00 and Station 7+00 of the newly constructed Day Island Road (S. 27th St.) and other work; CRP No. 1687. Bids opened November 5 and will be readvertised. BIDDERS: J. A. Troxell, 9440 N.E. Lake Washington Blvd., Bellevue, $178,903; Roy T. Earley Co., 321 Middle Waterway, Tacoma, $185,500; Ostruske-Murphy, Inc., 1515 Center St., Tacoma, $198,661; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle, $201,602. SP 11-13. Previous report 11-6

★PUMP— The Dalles Dam, Wash.

Award to Berkeley Pump Co., Box 7, Station A, Berkeley, Calif., $6,630, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for one electric motor-driven deep well turbine or propeller type pump, fob The Dalles Dam, Wash.; CIVENG-35-026-57-44. WB 11-13. Previous report 10-19

INDUSTRIAL PARK— Tukwila, Wash.
(Estimated cost $100,000,000)

An industrial park, designed to accommodate 50 or 60 industries, will be developed immediately on a 350-acre tract directly south of the south boundary of Tukwila, for owner Andover, Inc., c/o White & Bollard, Inc., representatives, 2333 3rd Ave., Seattle. The park, to be known as Andover Park, may eventually occupy 750 acres, according to Robert G. Keever, treasurer of White & Bollard. The property is bounded on the west by 57th Ave. S., the Green River on the east, S. 180th St. on the south and the Renton Three Tree Point Road on the north. The Green River is part of the Duwamish Waterway development project with the proposed turning basin just to the north. All needed services will be installed at the site, including rail, water, sewage disposal, power, other utilities and adequate parking. SP 11-13

STREET IMPROVEMENTS— Tumwater, Wash.

Bond election will be held November 26 in place of November 5 by City Council, City Hall, Tumwater, on a $180,000 bond issue to finance street improvements for the city. Proceeds of the bond sale will finance plantmix surfacing of five mi. city streets and light bituminous surfacing of an additional 12 mi. streets. SP 11-8. Previous report 10-2

▲BASE COURSE— Vancouver, Wash.

Bids opened and held under advisement by Vancouver Housing Authority, Fred Senechal, executive director, McLoughlin Heights, Vancouver, for furnishing 2,600 tons base course in Adresen Highlands—2, McLoughlin Heights, Vancouver. Award probably will be made November 12. WB 11-8. Previous report 10-25

●TERMINAL CONNECTORS— Vancouver, Wash.

Bids will be opened 2 p.m., November 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, terminal connectors; Inv. No. 8580. Specifications with above office. SP 11-9

●STEEL WIRE STRAND—Vancouver, Wash.

Bids will be opened 2 p.m., November 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering 200,000' steel wire strand fob Eavan Spur, Vancouver; Inv. No. 8581. Specifications with above office. SP 11-9

★ELECTRICAL SYSTEM, SWITCHYARD— Wenatchee, Wash.

Award to Tullar Power Construction, Inc. & Associates, 3214 W. McGraw, Seattle, $2,580,578, by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for construction and installation of electrical system, transmission towers, switchyard and related equipment for the Rocky Reach hydroelectric project on the Columbia River. Tullar Power Construction, Inc., & Associates is a joint venture comprised of Tullar Power Construction Co., 3214 W. McGraw, Seattle; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland, Ore.; and Wismer & Becker, Sacramento, Calif. The contract was awarded with the stipulation that it may be withdrawn anytime prior to December 31, 1957, in the event that arrangements for financing the work are not completed by that time. SP 11-8

SEWER SYSTEM, TREATMENT PLANT— Wishram, Wash.
(Estimated cost $154,000)

Preliminary plans have been completed by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis, Ore., for a sanitary sewer system and sewage treatment plant to serve Wishram Sewer District.

Estimated cost of the sewage collection system including two main trunk lines and 19 lateral mains has been set at $80,607. Sewage treatment plant cost is estimated at $73,800. Construction would be financed through sale of revenue bonds; and a possible federal grant equal to 30% of the cost of the treatment plant. DC 11-13

★INDUSTRIAL WASTE DISPOSAL SYSTEM— Yakima, Wash.

Awards announced by City Council, City Hall, Yakima, for construction of industrial waste sewer lines (Sched. 1) and treatment plant facilities (Sched. 2) to serve the canneries on 1st St. and Lenox Ave. in Yakima. AWARDS—SCHED. 1: Walters Construction Co., Box 184, Cosmopolis, $225,081 (basic and alts.). SCHED. 2: Central Plumbing and Heating Co., 510 S. 1st St., Yakima, $114,620.

Quantities — SCHED. 1: 24,000 c.y. excavation and backfill; 500 c.y. bedding gravel; 11,000' of 24" concrete pipe or clay pipe; 400' of 24" reinforced concrete pipe; 6,500' of 18" concrete or clay pipe; 900' of 12" same; 2,700 sq. yd. asphaltic concrete repair; 400' curb and gutter repair. SCHED. 2: 1,500 c.y. excavation and backfill; 230 c.y. concrete; 650' concrete sidewalks; 28,000 lb. reinforcing steel; 40 c.y. bedding gravel; 14,800' steel pipe; 350' concrete pipe. IG 11-9. Previous report 10-24

IDAHO

WATER SYSTEM— Aberdeen, Idaho
(Estimated cost $100,000)

Bids may be called in January 1958 by City Council, City Hall, Aberdeen, for improvements to the city water system. Specifications underway by Hamilton & Voeller, consulting engineers, 417 E. Center, Pocatello. A bond issue for the project was approved early in October and further plans will be announced subsequent to the engineer's report. Project will provide a new 12" well to be drilled near the junior high school, 11,000' of 6" pipe, new fire hydrants

and water meters, larger water mains in some parts of the city, and new water lines. SP 11-12. Previous report 10-12

INTERSTATE HIGHWAY— Boise, Idaho

The Idaho Department of Highways hopes to award contracts before the end of 1958 on five mi., four-lane section of the interstate highway system west of Mountain Home and a nine mi. four-lane strip from Rockland Junction east through American Falls to the Igo overpass. Early in the year, the department plans to contract for the sections between Pocatello and Idaho Falls and from Caldwell west to the Oregon border. Bryce Bennett, state highway engineer, has stated that all segments of the interstate system must be of a controlled access type without grade intersections or traffic lights. DC 11-12

DISTRIBUTION LINE— Boise, Idaho

Bids will be called in December or January by Bureau of Reclamation, H. T. Nelson, regional director, Reclamation Bldg., Fairgrounds (Box 937) Boise, Idaho, for construction of 1.5 mi. of distribution line at Palisades Dam near Irwin, Idaho.

Specifications will call for 12.5 kv wood pole, distribution line with two communication cables to be underbuilt. DM 11-12

★STATE HIGHWAY PROJECT—Boise, Idaho

Award announced by Department of Highways, 603 Main St., Boise, on the fourth and final highway construction project on which bids opened October 8.

CRAIGMONT-CULDESAC BRIDGES—Constructing roadbed, drainage structures and seven 101.4' concrete bridges on 13.344 mi. of U. S. Highway No. 95; FAP No. F-4113(6). AWARD: S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle, Wash., $2,011,540. SP 11-13. Previous report 10-11

★STATE HIGHWAY PROJECT—Boise, Idaho

Award to J. F. Konen Construction Co., Inc., 715 D, Lewiston, $30,440, by Department of Highways, 603 Main St., Boise, for the following highway project on which bids opened November 5.

CRUSHED ROCK STOCKPILES — GILBERT HILL, FOUR CORNERS—Furnishing crushed rock in stockpiles adjacent to State Highway Nos. 7 and 62, Lewis, Clearwater and Idaho counties; Idaho Stockpile Proj. Nos. 154 and 206. SP 11-13. Previous report 11-7

● STATE HIGHWAY PROJECTS— Boise, Idaho

Bids will be opened 2 p. m., November 26, by Department of Highways, 603 Main St., Boise, for two highway construction projects. Specifications with above office. $5 charge. Certified check or cashier's check 5%.

LITTLE WOOD RIVER CONCRETE BRIDGE—Constructing a 36' concrete bridge on U. S. Highway No. 93, over the Little Wood River, in Shoshone, Lincoln County; FAP No. F-2392(4).

Quantities: 1,750 c.y. excavation for structure; 295 c.y. concrete; 50,500 lb. metal reinforcement; 450 lb. structural steel; 175' concrete curb; 75 sq. yd. concrete sidewalk; 500 c.y. special backfill.

BITUMINOUS SURFACING—U. S. HIGHWAY No. 26—Constructing the surface and bituminous surface treatment on 11.142 mi. and seal coating 9.611 mi. of U. S. Highway No. 26, Clark Hill-Granite Hill and Beeches Corner-Ririe and furnishing crushed gravel in stockpile, Bonneville County; FAP No. F-6501(4) and Idaho Stockpile Proj. No. 231.

Quantities: 8.5 mi. obliteration of old road; 77,000 ton select base course; 173,000 ton crushed gravel base course; 5,000 ton crushed gravel surfacing in stockpile; 188,000 gal. asphalt road material for surface treatment; 9,500 ton cover coat material; 40,000 ton asphalt road material for seal coat; 80' of 8" pipe culvert; 5,000 ton screened and/or crushed sand in stockpile. SP 11-13

SEWAGE SYSTEM— Deary, Idaho

Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, Wash., has been retained by the Village of Deary to make a preliminary survey for a proposed sewer system. Petitions favoring the project have been approved. Federal funds may be available for the work. DR 11-8

SEWAGE COLLECTION SYSTEM— Genesee, Idaho

Bond election will be held November 26 by City Council, City Hall, Genesee, on a $33,000 municipal bond issue to finance a sewage collection system for the city. The funds provided by the bond issue would finance sewer lines in the east and central section of the city, supplementing a system constructed several years ago in the western section of the city. A bond issue for this project was defeated in a September election. DR 11-13. Previous report 10-1

ALARM SYSTEMS— Idaho Falls, Idaho
(Estimated cost $35,000)

Bids will be called later this month by Atomic Energy Commission, Box 1221, Idaho Falls, for installation of a monitron system in the MTR Area and modification of alarm systems in the MTR and CFA areas at the National Reactor Testing Station, west of Idaho Falls; Inv. No. AT(10-1)-933. Plans with above office.

Work covered by the above contract proposal is as follows: (a) Installation of additions and modifications to the existing fire alarm gong systems and existing evacuation alarm systems in the MTR and CPP areas. Work includes furnishing and installing sirens, coding-type gongs and related control relays, control mechanisms, switches, conduit and conductors. (b) Installation of conduit, duct and conductors for an area monitron system in the MTR area. Monitoring instruments and devices have already been procured and furnishing and installing of this equipment is not included under this contract. Conductors will include four-conductor stranded wire cables and eight-conductor shielded cables. SP 11-8

DITCH COVERING— Lewiston, Idaho

The Lewiston Orchards Irrigation District, Robert Budweg, manager, 1520 Powers, Lewiston, is planning for covering open ditches with pipes or concrete flumes to eliminate water losses and evaporation. DR 11-8

RELOCATE RAIL TRACKS— Lewiston, Idaho
(Estimated cost $14,000)

Plans are being considered by the State Department of Highways, the City of Lewiston and Camas Prairie Railroad Co. for relocation of the railroad's tracks to provide for two free lanes of traffic moving west along the approach to the Interstate Bridge in Lewiston.

The plans were recently discussed by Philip A. Marsh, Lewiston district engineer for the highway department, Elmer Soniville, city engineer; members of the city's traffic committee and street department and representatives of the railroad.

A plan was proposed whereby the tracks for the railroad's spur line along 1st St. leading across Main St. to Snake River would be moved to the southwest portion of the complex intersection. A decision may be made by December 4. DC 11-12

SEWAGE SYSTEM, TREATMENT PLANT— Pocatello, Idaho
(Estimated cost $1,100,000 to $1,250,000)

A tentative date of February 18 has been set by Pocatello City Commissioners, City Hall, Pocatello, for a bond election on the proposed sewage system and treatment plant.

Plans and specifications for the project are being prepared by Hamilton & Voeller, consulting engineers, 110 N. 2nd Ave., Pocatello. The Department of Health, Education and Welfare has approved an application for a federal grant in the amount of $250,000 to aid in financing the project. DC 11-13. Previous report 10-24

★WELL REHABILITATION—Rupert, Idaho

Award to Ben Walton, 706 3rd Ave. W., Twin Falls, $25,635, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for rehabilitation of 20 drainage wells, Unit B, Minidoka Project, near Rupert; Spec. No. 100C-316. SP 11-8

BROWNLEE DAM— Snake River, Idaho

The Power Commission has authorized Idaho Power Co., 807 Idaho St., Boise, to issue $15,000,000 in bonds to help finance construction of Brownlee Dam to be located 284.6 mi. above the mouth of the Snake River, west of Cambridge, Idaho. SC 11-12

MONTANA

TRANSMISSION LINE— Billings, Mont.

Bids will be called in December by Bureau of Reclamation, F. M. Clinton, regional director, Box 2553, Billings, for construction of footings, furnishing and erecting steel towers for about 309 mi. of single circuit, 230 kv transmission line from Fort Peck Power-Plant near Fort Peck, through the Dawson County Substation near Glendive, Mont., to the substation at Bismarck, N. Dak.

It is estimated that costs for construction of lines including right of way and stringing of transmission cables, will run between $35,000 to $45,000.

The planned work will be under the Fort Peck Project, Mont., and the Missouri River Basin Project, N. Dak. Plans call for clearing rights of way, furnishing and installing fence gates, constructing footings, furnishing and erecting steel towers for about 309 mi. of single circuit, 230 kv transmission line. DM 11-12

REFINERY FACILITIES EXPANSION— Billings, Mont.

Plans announced by Carter Oil Co., John M. Sprague, vice president, 2813 3rd Ave. N., Billings, for expansion of facilities at the refinery east of Billings to raise crude oil capacities from 25,000 to 34,000-bbl.-per-day. The enlargement will be executed by revamping of existing equipment to process the higher volume. Most of the work will be done by company personnel. The expansion is expected to be completed and the plant capable of operating on a 34,000-bbl.-per-day basis by early summer of 1958. SC 11-13

INTERCEPTOR SEWER (3rd Section)— Billings, Mont.
(Estimated cost $250,000)

Bids may be opened December 3 by City Council, City Hall, Billings, for construction of the third and final section of a large interceptor sewer in south Billings. The project will include 5,364' of 30" main, 2,875' of 24" main and 21 manholes on a route extending west from Riverside Road to Orchard Lane and then north to State Ave. EE 11-13

TRANSMISSION LINE— Fort Peck to Glendive, Mont.
(Estimated cost $35,000 to $40,000 per mi.)

Bids will be called in December by Bureau of Reclamation, Region 6, 709 Central Ave., Box 2553, Billings, for construction of a 300-mi. transmission line from Fort Peck powerplant to Glendive and then east to Bismarck, N. Dak. Steel towers will be employed to carry the line. EE 11-12

FILTER PLANT— Glendive, Mont.
(Estimated cost $800,000)

Special election will be held November 20 rather than November 28 as reported in PCD 10-30, by City Council, City Hall, Glendive, on a proposed $500,000 general obligation bond issue and a $300,000 revenue bond issue to finance additions and improvements to the city water system, including a new filter plant. Specifications by Morrison-Maierle, Inc., consulting engineers, 501 St. Johns Ave., Billings. If the election is successful, contracts for the work will probably be let in spring of 1958. SP 11-8. Previous report 10-30

WATER MAIN— Great Falls, Mont.
(Estimated cost $13,000)

The Cascade County School District No. 1, Robert Farnsworth, superintendent, Great Falls, has authorized construction of an 8" water main for fire protection purposes at the Lewis and Clark and East junior high schools in Great Falls. Construction of the main and four fire hydrants placed at 400-yd. intervals along the main were recom-

mended by Fire Chief Charles Carrico. The main and hydrants are to be located from 2nd Ave. S. on 38th St. to 42nd St. on school property just south of the two school buildings. SC 11-9

★CLEARING, DRAINAGE—Missoula, Mont.

Award to Oliver General Contracting Co., Inc., Sandpoint, Idaho, $67,718, by U. S. Forest Service, 3032 Federal Bldg., Missoula, for road reconstruction, clearing, grubbing, excavation and drainage of 8.131 mi. roadway identified as Twelve-Mile Creek No. 352 (Sec. A), Coeur d'Alene National Forest, Mineral County, Mont.; Bid No. 89-58. Bids opened October 24, at which time 12 bids were received. SECOND LOW BID: Dillsworth Construction Co., Box 1005, Helena, $75,551. HI BID: Howard Tangen, 607 7th, Coeur d'Alene, Idaho, $102,609.
SP 11-8. Previous report 10-5

ALASKA

★PILING ENCASEMENT— Bethel, Alaska

Award to Nordin Construction Co., Box 1771, Fairbanks, $56,000, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for encasement of approximately 71 existing foundation pilings with metal collars at Bethel White Alice Site, Bethel; ENG-95-507-58-16. SP 11-13. Previous report 11-6

▲WATER SYSTEM IMPROVEMENTS— Kake, Alaska

Bids received 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 and Aaa 50-A-200. Bids opened November 6. LOW BID: Gastineau Contractors, Juneau, $14,125 (335), $12,028 (200). OTHER BIDDERS: C & R Builders, 1619 8th Ave., Seattle, $33,900, $25,188; Berg Construction Co., Box 276, Juneau, $32,411, $36,125. Contract for the two jobs will be awarded to one bidder.

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.
SC 11-9. Previous report 11-5

NORTHERN CALIFORNIA

★STREET LIGHTING— Berkeley, Calif.

Award to General Electric Supply Co., 53rd and Hollister, Emeryville, $11,450, by City Council, City Hall, Berkeley, for 64 electrolier extensions with bracket arms to throw light downward, to be used on Shattuck Ave., a continuation of the project to improve lighting in the downtown area of Berkeley between Durant Ave. and Ward St.
RC 11-16

▲STORM SEWERS— Hayward, Calif.

Bids received by City Council, City Hall, Hayward, for installation of 2,034' of reinforced concrete pipe for a storm sewer in E St. from Main to 2nd in Hayward, Alameda County; Project No. 1155. Bids opened November 5. LOW BIDS: Associated Pipeline, Inc., Box 66, South San Francisco, $23,335; E and J Construction Co. Inc., 1253 3rd St., Oakland, $24,520; Vincent Rodrigues, 226 Jackson St., Hayward, $26,127.
RM 11-16. Previous report 11-2

▲SEWER LINE EXPANSION— Jamestown, Calif.

Bids received by Jamestown Sanitary District, Jamestown, for extending the Jamestown sanitary system to serve Volponi Acres Bids opened November 4. LOW BIDS: Beerman and Jones, Box 698, Sonora, $55,549; McGuire & Hester, 796 66th Ave., Oakland, $71,092; W. M. Lyles Co., Box 495, Avenal, $71,821. PC 11-16. Previous report 11-2

VIRGINIA POINT DAM— Merced, Calif.

Merced Irrigation District directors have engaged Tudor-Goodenough Engineers of San Francisco to conduct an economic feasibility survey on a proposed dam and reservoir at Virginia Point on the Merced River. Tudor-Goodenough will use data reports compiled the past six years by the MID and U. S. Army Corps of Engineers. The federal government thus far has allocated $100,000 for the army engineers' survey which will be readied for Congress next spring. With this report, and the one to be compiled by the private engineering firm, MID directors expect to have a better evaluation of the site's practicability.
RC 11-16. Previous report 10-5

★IRRIGATION PIPE— Modesto, Calif.

Award to Robt. Eells, Rt. 2, Box 790, Ceres, $19,677, by Modesto Irrigation District, Modesto, for installing irrigation pipe for the District. Involved is 4,700' of 36" monolithic concrete pipe, 1,800' of 30" pipe and about 340' of reinforced pipe. RC 11-16

★IRRIGATION CANAL— Modesto, Calif.

Award to Lloyd W. Terrell, 221 Sequoia Ave., Turlock, $46,789, by Modesto Irrigation District, Modesto, for lining 3,500' of the Modesto Irrigation District's main canal, between the Welch Drop and Blossom Ave., Modesto. RC 11-16

★STREET IMPROVEMENTS, SEWAGE AND WATER LINES— Palo Alto, Calif.

Two of three main contract awards have been announced by Stanford University, Palo Alto, for the Pine Hills development, the new faculty residence area for Stanford University, located between College Terrace and present dwellings on either side of Mayfield Ave. One contract is for street improvement, including grading, and constructing curbs, gutters, and paving; the second is for installing storm drainage, sewers and water distribution lines. The third contract for the electrical, fire alarm and telephone system should be granted soon. These installations will be underground. AWARDS—STREET IMPROVEMENTS: Douglas and Woodhouse, 1 Winslow St., Redwood City, $87,000. SEWAGE AND WATER LINES: Pisano Brothers, 1800 De La Cruz Blvd., Santa Clara, $133,000. RC 11-16

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids will be opened 2 p.m., December 4, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

X-SJ-5-B, STKN—Grade and pave about 5.1 mi. with plantmixed surfacing on untreated base and existing pavement, and construct one bridge and two culverts, between Richards Ave. and Charter Way, San Joaquin County. Estimated cost $1,078,000.

IV-ALA-5,228-G,A — Prepare and plant about 3.8 mi. of roadside areas between Center St. and Rt. 69 near Castro Valley, Alameda County. Estimated cost $25,000.

IV-SM-237-SBR—Furnish and install traffic signal, flashing beacon and highway lighting systems at Sneath Lane and at San Bruno Ave. in San Bruno on Junipero Serra Blvd., San Mateo County. Estimated cost $41,350.

III-PLA,NEV-37-F,B—About 6 mi. of four-lane separated roadways and frontage roads to be graded and surfaced with portland cement concrete pavement on cement treated subgrade and plantmixed surfaced on cement treated base, and bridges to be constructed between Hampshire Rocks and 0.5 mi. west of Soda Springs, Placer and Nevada counties. Estimated cost $5,600,000.
PB 11-16

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids will be opened 2 p.m., December 11, by California Division of Highways, 510 Public Works Bldg., on the following highway construction. Plans with state highway engineer at above address.

III-SOL,YOL-90-AA,B—Two lanes of an ultimate 6-lane freeway, about 13.6 mi. in length, to be graded, frontage roads and approaches to be graded and surfaced with plantmixed surfacing on untreated base, and reinforced concrete bridges to be constructed, between 0.2 mi. south of Putah Creek and 2.8 mi. north of Madison, Solano and Yolo counties. Estimated cost $3,400,000.

III-COL-15-D—Construct drainage facilities, about 0.6 mi., between 10.6 mi. and 10.0 mi. west of Williams, Colusa County. Estimated cost $20,000. PB 11-16

★PAVING— Sacramento, Calif.

Award to A. Teichert & Son, Inc., 1921 Stockton Blvd., Sacramento, $73,213, by City Council, City Hall, Sacramento, for construction of roadways in Miller Park, including curb and gutter and drainage facilities. Bids opened August 29.
RM 11-16. Previous report 9-7

●STATE HIGHWAY PROJECT— Sacramento, Calif.

Bids will be opened 2 p.m., December 18, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

III-NEV-37,38-D,A—About 8.8 mi. to be graded and surfaced with concrete pavement and plantmixed surfacing to provide a four-lane, divided highway; 11 bridges to be constructed; highway lighting, steel sign structures, and a truck scale house with attendant facilities to be constructed or installed, near Truckee between 1.4 mi. west of junction routes 37 and 38 and 0.5 mi. west of Boca, Nevada County. Estimated cost $8,800,000. PB 11-16

★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 October 30.

IV-ALA-60-OAK—Place concrete pavement and plantmixed surfacing on "off-ramp" and perform electrical work, about 0.2 mi., in Oakland near 16th Ave., Alameda County. AWARD: O. C. Jones & Sons, 1520 4th St., Berkeley, $43,232.
PB 11-16. Previous report 11-2

●WATER MAIN— San Francisco, Calif.

Bids will be opened 2 p.m., November 21, by the San Francisco Public Utilities Commission, City Hall, San Francisco, for laying water main in Mid Town Terrace, Water Dept. Contract No. 819. Plans and specifications with R. J. McDonald, secretary, at above address.

Quantities: 3,250' excavation and backfill; 30 c.y. additional excavation and backfill; 270' of 4" 1,180' of 6", 1,800' of 8" install B&S cast iron pipe; 8,000 lbs. install footings, gate valves, etc.; 500' make B&S joints; 700 sq. ft. repave pavement; one ¾" and 49, 1" install screw taps; 960' install service pipe, ¾" and 1". BY 11-16

●REMOVING ARCHES— San Francisco, Calif.

Bids will be opened 1:45 p.m., November 20, by the San Francisco Director of Public Works, City Hall, San Francisco, for removal of the arches at the intersection of Mission and 25th Sts., San Francisco. Plans and specifications available at Room 284, City Hall, San Francisco. BY 11-16

★LEVEES, FLOOD WALLS— San Francisco, Calif.

Award to Granite Construction Co., Box 900, Watsonville, $3,861,295, by Corps of Engineers, 180 New Montgomery St., San Francisco, for construction of a series of levees and flood walls along San Lorenzo River and Branciforte Creek. RM 11-16

▲STORM SEWER— Stockton, Calif.

Bids received by City Council, City Hall, Stockton, for construction of a trunk line stormwater sewer to serve Brookside Village in Stockton. Completion time 20 days. Bids opened November 4. LOW BIDS: Western Construction Co., 639 W. Clay, Stockton, $11,922; Stockton Construction Co., Inc., Box

2987, Stockton, $14,484; R. Goold & Son, 1601 Turnpike Rd., Stockton, $16,470. RM 11-16

▲GRADING, PAVING, ATHLETIC COURTS— Travis AFB, Calif.

Bids received by Corps of Engineers, Room 305, Wright Bldg., 1209 8th St., Sacramento, for grading, paving and fencing athletic courts at Denverton, Elmira and Potero Hills cantonment areas in the Travis AFB defense area, Solano County, Calif.; ENG-104-167-58-5. Bids opened November 7. LOW BIDS: Watkin and Sibbald, 6 Bridge St., San Anselmo, $17,800; George Reed & Wendell G. Reed, 529 Covena Ave., Modesto, $17,905; Fraser-Edwards Co., 2412 Harrison St., San Francisco, $18,892.

RM 11-16. Previous report 11-2

TRENCHES, DRAINS— Tulelake, Calif.

All bids were rejected by Bureau of Reclamation, Box 312, Klamath Falls, Ore., for excavation for pipe trenches and installing closed drains, Tulelake area, Calif., Modoc County, Klamath Project, Spec. No. 200C-367. Bids opened October 10. Bids will be re-opened next spring.

RM 11-16. Previous report 10-5

BUREAU OF RECLAMATION LISTS 23 MAJOR PROJECTS
Scheduled for Bid Call Within Next Three Months

Twenty-three major projects will be among bid invitations issued by the Bureau of Reclamation during November, December and January. Among these projects is the Esquatzel diversion channel, Columbia Basin Project, near Pasco, Wash. involving 10 mi. long canal, diversion structures, bridge and a concrete terminal chute in the Columbia River. The earthfill Wasco Dam on Clear Creek, Wapinitia Project, west of Maupin, Ore. is scheduled for 1958 bid call, as is indoor type Radar Pumping Plant, Columbia Basin Project, south of Othello, Wash. Further information on the projects described below should be directed to the office issuing invitations and should be referred to by title and number.

BID CALLS EXPECTED IN NOVEMBER

DIVERSION CHANNEL, Esquatzel (11-2) —Columbia Basin Project, Wash. Near Pasco, Wash. Earthwork and structures for a 5,300 cfs capacity, eight foot bottom width, concrete lined canal, about 10 mi. long, including a radial gate diversion structure, a timber bridge and a 2,000' long rectangular concrete terminal chute in the Columbia River.

Quantities: 1,400,000 cy. canal excavation; 300,000 c.y. compact embankment; 400,000 c.y. structure excavation; 200,000 c.y. backfill about structures; 2,000 c.y. riprap; 3,000 c.y. concrete in structures; 55,000 c.y. unreinforced concrete in canal lining; 1,000' of 12" to 24" HC50 precast concrete pipe; 150' of 66" HC100 precast concrete pipe; 32'x20' radial gate and hoist. Completion time 600 days.

Bids will be called by chief engineer, Denver, Colo.

LATERAL WIDENING, Block 49 (11-5)— Columbia Basin Project, Wash. Southwest of Othello, Wash. Widening about 2,200' of the PE16.4 open ditch lateral.

Quantities: 2,700 sq. yd. concrete removal; 1,400 c.y. excavation for lateral; 3,500 sq. yd. trimming earth foundation for concrete lining; 240 c.y. concrete in lateral lining. Completion time 90 days.

Bids will be called by project manager, Ephrata.

LATERAL, WASTEWAY LINING, Block 45 (11-6)—Columbia Basin Project, Wash. South of Othello, Wash. Placing blended earth lining in about 1.6 mi. of the EL68 and EL68T5 laterals and reshaping and gravel lining about 1.1 mi. of the EL68T16 and EL68T19 wasteways.

Quantities: 50,000 c.y. lateral excavation; 20,000 c.y. excavation from borrow; 30,000 c.y. overhaul; 41,000 c.y. compacted blended earth lining; 6,000 c.y. refill above earth lining; 50 c.y. riprap; 1,500 c.y. gravel lining for wasteways; 50 c.y. coarse gravel protection. Completion time 90 days.

Bids will be called by project manager, Ephrata.

LATERAL LINING, Block 18 (11-8)— Columbia Basin Project, Wash. Northwest of Connell, Wash. Placing compacted blended earth lining in about 8,000' of laterals.

Quantities: 5,500 c.y. lateral excavation; 2,500 c.y. excavation from borrow; 4,300 c.y. overhaul; 4,900 c.y. blended and compacted lining; 500 c.y. refill above lining; 20 c.y. riprap; 10 c.y. sand and gravel bedding for riprap; 10 c.y. coarse gravel protection. Completion time 90 days.

Bids will be called by project manager, Ephrata.

DRAINS, WASTEWAYS, Block 72 (11-11) —Columbia Basin Project, Wash. Southeast of Quincy, Wash. Earthwork and structures for about 4,000' of wasteway channel and constructing 0.5 mi. of DW30 open ditch drain and 0.5 mi. of W38 wasteway.

Quantities: 27,500 c.y. waterways excavation; 1,200 c.y. structure excavation; 1,900 c.y. backfill; 300 c.y. compacted and puddling backfill; 33 c.y. coarse gravel protection; 18 c.y. concrete in structures; 86' of 15" and 18" concrete culvert pipe; 110' of 12", 16 guage corrugated metal pipe; 282' of 18", 16 guage and 30", 14 guage asbestos bonded corrugated metal pipe; 3, 18"x12" steel slide gates; 4, 15" diameter cast iron slide gates; 347 lb. miscellaneous metalwork. Completion time 90 days.

Bids will be called by project manager, Ephrata.

TEST PITS (11-15)—Little Wood River Project, Idaho. Near Carey, Idaho. Excavating about 20 test pits in earth and gravel borrow areas. Completion time 30 days.

Bids will be called by regional director, Boise.

BID CALLS EXPECTED IN DECEMBER AND JANUARY

DAM (11-26)—Wapinitia Project, Ore. On Clear Creek about 35 mi. west of Maupin. Constructing the 42' high earthfill Wasco Dam, containing about 45,000 c.y. of material, with crest length of 390', and appurtenant structures.

Bids will be called by chief engineer, Denver.

PUMPING PLANT, TRANSMISSION LINE (11-30) — Columbia Basin Project, Wash. South of Othello. Constructing the indoor type Radar Pumping Plant will include a reinforced concrete substructure, a superstructure of structural steel frame with uninsulated metal panel siding, a crane runway for a 15-ton traveling crane, five electrically-driven horizontal pumping units of 146 cfs total capacity, and making provision for a future installation of four electrically-driven horizontal pumping units of 241 cfs total capacity. Work will also include constructing a 115 kv tap line from the Bonneville Power Administration Scooteney-Eagle Lake 115 kv line about 2.5 mi. to the pumping plant.

Bids will be called by chief engineer, Denver.

LATERALS (11-34) — Minidoka Project, Idaho. Near Rupert. Earthwork and structures for about three mi. of open ditch laterals, with capacities up to 10 cfs, from four wells.

Bids will be called by regional director, Boise.

LATERALS, WASTEWAYS (11-35)—Columbia Basin Project, Wash. Near Othello. Earthwork and structures for about 5,500' of open ditch lateral extension, new open ditch laterals and a wasteway, in Block 46 east of Othello, and in Block 49 southwest of Othello.

Bids will be called by project manager, Ephrata.

LATERAL (11-36)—Columbia Basin Project, Wash. Near Eltopia. Earthwork and structures for about 600' of the PE47Q1A open ditch lateral, including modifications to four existing structures in Block 15 west of Eltopia.

Bids will be called by project manager, Ephrata.

LATERAL LINING (11-37) — Columbia Basin Project, Wash. Near Othello. Placing blended compacted earth lining in 2,000' of laterals in Block 87, about 18 mi. northwest of Othello.

Bids will be called by project manager, Ephrata.

LATERAL LINING (11-38) — Columbia Basin Project, Wash. Near Ephrata. Placing compacted earth lining in about 2,100' of W20 lateral, in Block 89 southeast of Ephrata.

Bids will be called by project manager, Ephrata.

WASTEWAY (11-39) — Columbia Basin Project, Wash. North of Othello. Earthwork and structures for the EL68K wasteway about 1,200' long. Work will include moving two structures in Block 45.

Bids will be called by project manager, Ephrata.

WASTEWAY (11-40) — Columbia Basin Project, Wash. Southwest of Quincy. Earthwork and structures for the W35.9B2 wasteway about 1,200' long in Block 74.

Bids will be called by project manager, Ephrata.

DRAINS (11-41)—Columbia Basin Project, Wash. Northeast of Smyrna. Earthwork and structures for the DW272A, DW272A1, DW-66.7 and DW69F open ditch drains totaling about two mi. in Block 86.

Bids will be called by project manager, Ephrata.

TANKS (11-43)—Columbia Basin Project, Wash. Installing 10,000-gal. capacity underground storage tanks for aromatic solvents at Franklin Field Branch Headquarters at Mesa, and the Royal Field Branch Headquarters at Royal.

Bids will be called by project manager, Ephrata.

WELLS (11-44)—Michaud Flats Project, Idaho. Near American Falls. Drilling and casing three irrigation water supply wells.

Bids will be called by regional director, Boise.

TRANSMISSION LINE (11-45)—Fort Peck Project, Mont. and Missouri River Basin Project, N. Dak. Clearing rights of way, furnishing and installing fence gates, constructing footings, furnishing and erecting steel towers for about 309 mi. of single circuit, 230 kv transmission line from Fort Peck Powerplant near Fort Peck, through the Dawson County Substation near Glendive, Mont., to the substation at Bismarck, N. Dak.

Bids will be called by chief engineer, Denver.

DISTRIBUTION LINE (11-47)—Palisades Project, Idaho. Constructing 1.5 mi. of 12.5 kv wood-pole distribution line with two communication cables to be underbuilt, at Palisades Dam, near Irwin.

Bids will be called by chief engineer, Denver, Colo.

CEMETERY RELOCATION (11-50)—Rogue River Basin Project, Ore. Near Ashland. Relocating Hill Cemetery from the Emigrant Reservoir area.

Bids will be called by regional director, Boise, Idaho.

TRASH COLLECTING FACILITIES (11-52)—Yakima Project, Wash. Near Prosser. Furnishing and installing traveling trash racks and conveyor in the forebay of the Chandler Powerplant consisting of about 100,000 lb. of machinery parts and structural steel and some concrete work.

Bids will be called by chief engineer, Denver, Colo.

PUBLIC BUILDINGS (11-54) — Palisades Project, Idaho. Near Irwin. Constructing public restroom facilities at Palisades Dam.

Bids will be called by regional director, Boise.

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

Nov 19—Brownsville—High School 11-2
Nov 19—Portland—Telephone Building Addition 11-9
Nov 21—Portland—Office Building 10-25
Nov 26—Albany—Courtroom 11-5
Nov 26—Parkdale—Campground Tables 11-9
Nov 26—Portland—Medical School Additions 11-2
Nov 27—Portland—Grade School Addition 11-1
Nov 27—Portland—Finish Classrooms 11-1
Nov 27—Schools—Grade School Addition 11-7
Dec 3—Corvallis—Heating Plant Improvements 11-12
Dec 3—Gardiner—Scale House 11-6
Dec 3—Portland—Grade School 11-6
Dec 4—Milton-Freewater—Post Office 10-29
Dec 5—Ashland—Science-Classroom Building; Heating Plant 10-29
Dec 5—Monmouth—General Arts Building 11-7
Dec 10—Portland—Family Housing 10-31

WASHINGTON

Nov 18—Everett—Sprinkler System 11-5
Nov 19—Paine AFB—Fire Alarm System 10-29
Nov 19—Seattle—Senior High School 10-25
Nov 20—Eltopia—School Addition 10-19
Nov 20—Seattle—Junior High School 10-29
Nov 21—Fort Worden—Building Remodeling 11-8
Nov 21—Seattle—Clinic 11-9
Nov 25—South Bend—Building Demolition 11-9
Nov 26—Geiger AFB—Housing Units, Site Development 10-16
Nov 26—Kent—Parish Hall 11-9
Nov 26—Richland—Roofing 11-7
Nov 26—Tacoma—Madison School 11-8
Nov 26—Winslow—Elementary School Addition 10-29
Dec 1—Seattle—Hospital 11-1
Dec 2—Edmonds—Elementary School 11-8
Dec 3—Spanaway—Junior High School 11-6
Dec 5—Tacoma—Bus Terminal 11-13

IDAHO

Nov 18—Boise—Lamps 10-29
Nov 21—Lewiston—Office Building 11-1
Nov 21—Jerome—Hot Air Heating Plant 11-6
Dec 11—Idaho Falls—Reactor Building Shell 11-13
May 22—Idaho Falls—Test Facility Buildings, Utilities 10-24

MONTANA

Nov 18—Butte—Greeley School Addition 10-29
Nov 19—Havre—Elementary School 11-2
Nov 21—Butte—Unemployment Compensation Building 11-2
Nov 25—Opheim Air Force Station—Building Insulation 11-12
Nov 29—Malmstrom AFB—Rocket Storage Building Modifications 11-6
Dec 3—Malmstrom AFB—Building Removal 11-13
Dec 5—Glasgow—Elementary School, Shop Building 10-15

ALASKA

Nov 25—Elmendorf AFB—Door Frame Replacement 11-5

ENGINEERING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

Nov 19—Brothers—Rehabilitating Well 11-9
Nov 19—Portland—Cement 11-9
Nov 19—Prineville—Fence 11-5
Nov 19—Sandy River—Wells, Concrete Head Wall, Fill 11-2
Nov 20—Portland—Power Sweeper 11-9
Nov 21—Bonneville—Diesel Engines 11-9
Nov 22—DeMoss Springs—Substation 11-9
Nov 22—North Bend—Range Structures 11-9
Nov 22—Portland—Tower Steel 11-2
Nov 22—Portland—Dredging 11-12
Nov 25—Kingsley Field—Off-Site Utilities 11-2
Nov 26—Ashland—Power Transformer 10-4
Nov 26—John Day—Concrete Sewer Pipe 11-9
Nov 26—Portland—Power Circuit Breakers 11-2
Dec 2—Burns—Sewerage Lagoon, Force Main 11-13
Dec 3—Hillsboro—Fire Hose 11-12
Dec 3—Portland—Wells, Levee Work, Pipe 11-7
Dec 4—Ashland—Control Board, Equipment 10-19
Dec 10—Portland—Bulk Unloader Crane 10-11
Dec 10—Spray—Telephone Lines 11-1

WASHINGTON

Nov 18—Bellingham—Snow Plow 11-7

Your Inquiry Will Get Special Attention

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Nov 18—Elma—Tractor with Backhoe 11-13
Nov 18—Kennewick—Sewer 11-13
Nov 18—Seatle—Asphalt Concrete 11-9
Nov 18—Seattle—Tail Gate Sanders 11-9
Nov 18—Seattle—Check Meters 11-9
Nov 18—Seattle—Sewer Pumps 11-9
Nov 18—Seattle—Evaporative Coolers 11-8
Nov 19—Ephrata—Gravel Lining, Structure Alteration 10-29
Nov 19—Leavenworth—Water Well 11-9
Nov 19—Moses Lake—Park Sprinkler System 11-8
Nov 19—Olympia—State Highway Projects 11-1
Nov 19—Seattle—Truck Chassis, Cab 11-7
Nov 19—Seattle—Farm Tractor 11-7
Nov 19—Stillaguamish River—Bank Protection 11-12
Nov 20—Bremerton—Grouting 11-7
Nov 20—Seattle—Interceptor Sewers 11-1
Nov 20—Seattle—Voltage Regulators 11-13
Nov 20—Vancouver—Steel Wire Strand 11-9
Nov 21—Bremerton—Service Station 11-1
Nov 21—Carson—Well Drilling 11-7
Nov 21—Ephrata—Wasteway, Structures 10-26
Nov 21—Seattle—Chain Link Fencing 11-13
Nov 21—Spokane—Electrical Facilities 11-2
Nov 21—Spokane—Sanitary Sewers 11-7
Nov 21—Tacoma—Power Line 11-9
Nov 21—Vancouver—Terminal Connectors 11-9
Nov 22—Everett—Street Widening, Channelization 11-13
Nov 22—Wenatchee—Transformers 10-25
Nov 25—Tacoma—Backhoe 11-12
Nov 26—Ephrata—Water Supply Well 10-29
Nov 26—Seattle—Transformers 10-31
Dec 3—Ephrata—Lateral Enlargement 11-9
Dec 3—Ephrata—Solvent Tanks, Pumping Facilities 11-9
Dec 3—Richland—Radio Telemetering Network 10-29
Dec 3—Seattle—Cable 11-13
Dec 5—Ephrata—Drain 11-5
Jan 6—Shelton—Transmission Line 11-13
Dec 9—Seattle—Asphaltic Concrete, Bituminous Plantmix 11-9
Dec 9—Seattle—Liquid Asphalt, Concrete Pipe 11-2

IDAHO

Nov 19—Elk City—Grading, Surfacing 11-6
Nov 20—Wilder—Rural Telephone System 10-17
Nov 25—Targhee National Forest—Treated Timber Bridge 11-5
Nov 26—Boise—State Highway Projects 11-13

MONTANA

Nov 20—Malmstrom AFB—Parking Lot Repair 10-26
Nov 25—Malmstrom AFB—Radio Equipment 11-6
Dec 10—Malmstrom AFB—Road Repair 10-23

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.

GRADING
BIDS WILL BE CALLED SOON
Portland, Oregon
NOTICE TO CONTRACTORS

PRELIMINARY NOTICE OF CONTRACT CONSTRUCTION, U. S. DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, October 29, 1957. The Bureau of Public Roads will issue an advertisement for bids later this year for constructing 3.817 miles grading, Washington Forest Development Road Project Gifford Pinchot N818-A, Merrill Lake Road, Gifford Pinchot National Forest, Cowlitz County, Washington. In order that contractors may be in a position to submit bids, they are urged to view the work at as early a date as possible as weather conditions may make the project inaccessible at any time. Interested contractors should contact B. M. FRENCH, Regional Engineer, Bureau of Public Roads, 757 Morgan Building, Portland, Oregon, to obtain plans and specifications. The principal quantities of work are as follows: 44 acres Clearing and Grubbing; 235,000 cu. yds. Excavation; 18,000 cu. yds. Topping; 369,000 sta. yds. Overhaul; 34,000 yd miles Borrow Overhaul; 2,500 lin. ft. Culvert Pipe.

5981—11-2

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., NOVEMBER 19
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, November 19, 1957, 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 5 inclusive.

The improvements for which bids will be received follow:

1. Surfacing, Paving with Portland Cement Concrete and Asphaltic Concrete and Installing an Illumination System and Automatic Sprinkler System on 2.039 miles of Primary State Highway No. 2 in Spokane County, HELENA STREET TO CUSTER STREET IN SPOKANE, FAP No. I-002-6(24) Unit 2, involving about 100 cubic yards of Common Excavation, 6,500 tons of Selected Roadway Borrow, 20,000 tons of Crushed Surfacing, 15,660 cubic yards of Top Soil, 5,855 tons of Asphaltic Concrete, 94,360 square yards of Cement Concrete Pavement, 296 cubic yards of Concrete, 114,000 pounds of Steel Reinforcing Bars, 49,034 linear feet of Cement Concrete Curb, Cement Concrete Gutter and Cement Concrete Curb and Gutter, 1,750 linear feet of Precast Traffic Curb, 2,226 linear feet of Concrete Pipe, 3,086 linear feet of Metal Pipe, 6,327 linear feet of Beam Guard Rail, 263 Guide Posts, a lump sum bid for Installation of Illumination System, a lump sum bid for Installation of Automatic Sprinkler System 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, Constructing Bituminous Pavement on Frontage Roads and Cross Streets and Constructing Three Reinforced Concrete Flat Slab Bridges on 2.123 miles of Primary State Highway No. 1 in Whatcom County, CONNECTICUT STREET TO NORTHWEST AVENUE IN BELLINGHAM, FAP No. I-001-5(20), involving about 52 acres of Clearing, 437,060 cubic yards of Common Excavation, 73,070 units of Overhaul, 34,100 tons of Selected Roadway Borrow, 2,200 cubic yards of Sand Borrow, 3,900 tons of Crushed Surfacing, 45 tons of Asphalt Cement, 380 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 1,300 tons of Asphaltic Concrete, 1,115 linear feet of Integral Cement Concrete Curb, Cement Concrete Gutter and Cement Concrete Curb and Gutter, 2,350 linear feet of Metal Pipe, 4,797 linear feet of Concrete Pipe, 456 linear feet of Structural Plate Pipe and Pipe-Arch, 580 linear feet of Iron Pipe, 300 linear feet of Beam Guard Rail, 10 Guide Posts, 595 square yards of Cement Concrete Sidewalk and Driveway, a lump sum bid for Superstructure (about 750 cubic yards of Concrete and 200,000 pounds of Steel Reinforcing Bars), 1,072 cubic yards of Concrete, 161,120 pounds of Steel Reinforcing Bars, 904 linear feet of Standard Bridge Railing, 18,160 linear feet of Treated Timber Piling, 10,240 linear feet of Untreated 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. Grading, Surfacing, Constructing Bituminous Surface Treatment and Constructing Three Reinforced Concrete Flat Slab Bridges on 0.187 mile of Primary State Highway No. 18 in Grant County, MOSES LAKE BRIDGE, FAP No. I-002-4(4) Unit 3, involving about 13,150 cubic yards of Common Excavation and Borrow, 1,040 cubic yards of Crushed Surfacing, 15 tons of Asphalt Cement, 130 cubic yards of Crushed Cover Stone, 450 linear feet of Metal Pipe, 1,878 linear feet of Beam Guard Rail, 1,320 cubic yards of Concrete, 1,479 linear feet of Standard Bridge Railing, 312,000 pounds of Steel Reinforcing Bars, 8,375 linear feet of Concrete Piling and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Clearing, Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment on 3.734 miles of Secondary State Highway No. 11-A in Adams, Franklin and Grant Counties, WHITE BLUFFS VICINITY, FAS No. S-0271(3), involving about 89,735 cubic yards of Common Excavation, 25,800 tons of Crushed Surfacing and Crushed Cover Stone, 145 tons of Asphalt Cement, 576 linear feet of Concrete Pipe, 86 linear feet of Metal Pipe-Arch, 500 linear feet of Wire Fence and other items.
5. Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment on 13.959 miles of Grant County Roads, BURKE WEST AND WHITE TRAIL ROADS Nos. S-1384(1) and S-1004(4), involving about 8.1 miles of Grading, 30,310 tons of Crushed Surfacing, Ballast and Crushed Cover Stone, 310 tons of Asphalt Cement, 1,458 linear feet of Metal Pipe, 978 linear feet of Concrete Pipe, 5,300 linear feet of Right of Way Fence and other items.
6. Draining, Grading and Surfacing on 19.661 miles of Grant County Roads, BLOCK 77 FEEDER ROADS, a State Project, involving about 19.7 miles of Grading, 56,490 tons of Crushed Surfacing, 1,584 linear feet of Concrete Pipe, 1,752 linear feet of Metal Pipe, 5,300 linear feet of Right of Way Fence and other items.

W. A. BUGGE, Director of Highways
E. A. COWELL, Chairman

5982—11-2, 9

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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.

GRADING
BIDS WILL BE CALLED SOON
Portland, Oregon
NOTICE TO CONTRACTORS

PRELIMINARY NOTICE OF CONTRACT CONSTRUCTION, U. S. DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, October 29, 1957. The Bureau of Public Roads will issue an advertisement for bids later this year for constructing 4.429 miles grading, Washington Forest Development Road Project Gifford Pinchot N818-B, Merrill Lake Road, Gifford Pinchot National Forest, Cowlitz County, Washington. In order that contractors may be in a position to submit bids, they are urged to view the work at as early a date as possible as weather conditions may make the project inaccessible at any time. Interested contractors should contact B. M. FRENCH, Regional Engineer, Bureau of Public Roads, 757 Morgan Building, Portland, Oregon, to obtain plans and specifications. The principal quantities of work are as follows: 48 acres Clearing and Grubbing; 154,500 cu. yds. Excavation; 17,000 cu. yds. Topping; 61,000 yd. miles Overhaul; 1,600 lin. ft. Culvert Pipe; 138 lin. ft. Structural Plate Pipe-Arch.

5980—11-2

STATE HIGHWAY PROJECT
BIDS CLOSE 10 A.M., NOVEMBER 19
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, November 19, 1957, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below, item no. 1.

The improvement for which bids will be received follows:

1. Clearing, Draining, Grading, Surfacing with Ballast and Constructing a Reinforced Concrete Flat Slab Bridge on 4.724 miles of Primary State Highway No. 2 in Kittitas County, KACHESS RIVER TO EASTON, FAP No. 1-002-2(15), involving about 77 acres of Clearing, 337,695 cubic yards of

Common Excavation and Borrow, 34,480 units of Overhaul, 16,920 cubic yards of Unsuitable Excavation, 87,180 tons of Ballast, 1,820 linear feet of Concrete Pipe, 136 linear feet of Metal Pipe, 570 linear feet of Steel Pipe, 5,270 tons of Loose Riprap, 571 cubic yards of Concrete, 81,110 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 380 cubic yards of Concrete and 88,500 pounds of Steel Reinforcing Bars), 287 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.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5983—11-9

MOTOR CONTROL EQUIPMENT ASSEMBLIES

BIDS CLOSE DECEMBER 3
Denver, Colorado

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-4984) will be received at Denver, Colorado, until December 3, 1957, for furnishing metal-enclosed, indoor-type, motor control equipment assemblies for controlling nine, 2,400-volt, 520 to 800 hp. motors; and five, 480-volt, 280 and 300 hp motors for five pumping plants of the Ventura River Project, California. Delivery is desired within 365 and 425 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

5971—10-26

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., DECEMBER 3

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, December 3, 1957, 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 5 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Paving with Asphaltic Concrete, Installing Illumination Systems and Constructing Four Reinforced Concrete Slab Bridges on 7.281 miles of Secondary State Highway No. 3-A in Yakima County, PARKER TO WAPATO, FAP No. F-048-1(2), involving about 165,355 cubic yards of Common Excavation and Borrow, 99,420 units of Overhaul, 200,090 tons of Ballast, Crushed Surfacing, Maintenance Rock, Crushed Cover Stone, Sand and Crushed Screenings, 606 tons of Asphalt Cement, 1,160 cubic yards of Prime Coat Aggregate, 28,205 tons of Asphaltic Concrete, 3,910 linear feet of Precast Traffic Curb, 2,514 linear feet of Concrete Pipe, 212 linear feet of Asbestos Cement Pipe, 716 linear feet of Beam Guard Rail, 38,793 linear feet of Cable Median Barrier, 38 Guide Posts, 1,550 linear feet of Chain Link Fence, 9 lump sum bids for Installation of Illumination Systems, 1,114 cubic yards of Concrete, 187,960 pounds of Steel Reinforcing Bars and other items.
2. Clearing, Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Installing Illumination Systems on 4.074 miles of State Highways Nos. 3 and 3-A in Benton County, JCT SSH No. 3-A TO GIBBON, FAP No. F-018-3(3) and State Project, involving about 263,950 cubic yards of Unclassified Excavation, 34,730 units of Overhaul, 106,055 cubic yards of Crushed Surfacing, Ballast, Maintenance Rock, Crushed Cover Stone and Sand, 153 tons of Asphalt Cement, 715 cubic yards of Prime Coat Aggregate, 17,435 tons of Asphaltic Concrete, 1,672 linear feet of Concrete Pipe, 10 cubic yards of Concrete, 130 linear feet of Asbestos Cement Pipe, 2,750 linear feet of Beam Guard Rail, 20 cubic yards of Hand Placed Riprap, 3 lump sum bids for Installation of Illumination Systems and other items.
3. Constructing a Reinforced Concrete Box Girder Bridge on Primary State Highway No. 1 in Pierce County, 74TH AND 72ND STREET UNDERCROSSING IN TACOMA, FAP No. I-001-3(29) Unit 2, involving about 795 cubic yards of Concrete, 352 linear feet of Standard Bridge Railing, 137,000 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 780 cubic yards of Concrete and 228,000 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. Constructing a Reinforced Concrete Box Girder Bridge on Secondary State Highway No. 2-A in King County, BRICKYARD ROAD UNDERCROSSING, FAP No. U-025-1(18), involving about 730 cubic yards of Concrete, 184,000 pounds of Steel Reinforcing Bars, 483 linear feet of Standard Bridge Railing and other items.
5. Constructing a Precast Concrete Girder Bridge on 0.033 mile of a Pierce County Road, TAYLOR BAY BRIDGE, FAS No. S-0333(2), involving about 1,220 linear feet of Treated Timber Piling, 7.3 MBM of Treated Timber and Lumber, 49 Precast Concrete Deck Units, 16 Precast Concrete Bulkhead Units, 457 linear feet of Special Bridge Railing and other items.
6. 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.
7. Placing Riprap on Primary State Highway No. 9 in Clallam County, BOGACHIEL RIVER VICINITY, a State Project, involving about 100 cubic yards of Structure Excavation and 6,600 tons of Loose Riprap.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5986—11-16, 23

STATE HIGHWAY PROJECTS

BIDS TO BE CALLED AT LATER DATE

Olympia, Washington

NOTICE TO CONTRACTORS

It is the intention of the Department of Highways to advertise for bids on the following two projects at a later date when snow may cover the ground.

1. Surfacing and Paving Four Lanes with Cement Concrete and Asphaltic Concrete on 5.088 miles of Primary State Highway No. 2 in Kittitas County, KEECHELUS INN TO RUSTIC INN.
2. Surfacing and Paving Four Lanes with Cement Concrete and Asphaltic Concrete on 5.146 miles of Primary State Highway No. 2 in Kittitas County, RUSTIC INN TO TOP EASTON HILL.

Contractors interested in bidding on this work are urged to 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.

It is anticipated that the State will permit a Contractor to submit bids on one or both of the above two projects and to condition his bid upon award of the combination of the two projects. A Contractor who submits bids on both projects may, if he desires to provide a more favorable bid on the combination of projects, allow for a reduction in the amount of each bid.

Preliminary plans giving approximate quantities for use on this inspection may be obtained from this office upon written request therefore and payment to the Director of Highways by cash, certified check, cashier's check or money order the sum of two dollars ($2.00) for each copy of such preliminary plans as a rental for the use of them. At such time that the project is advertised for bids, credit will be extended to those holding preliminary plans which will apply on the regular maps, plans and specifications issued for bidding purposes on the project. Plans will be forwarded by First Class Mail.

Preliminary 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.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

5984—11-9, 16

FRESH WATER WELL

BIDS CLOSE 10 A.M., P.S.T., NOVEMBER 19

Portland, Oregon

NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, The Interior Building, 1001 N.E. Lloyd Blvd., Portland 14, Oregon. Telephone BEImont 4-3361, Ext. 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T., November 19, 1957, and then publicly opened, for drilling, casing, and developing a fresh-water well at the U. S. Fish Cultural Station near Leavenworth, Wash. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

5985—11-12

SCHOOL ADDITION

BIDS CLOSE 8 P.M., NOVEMBER 20

Eltopia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the undersigned at the office of the Superintendent, Old Eltopia Elementary School Building, Eltopia, Washington, until 8:00 P.M. on the 20th of November, 1957, for the construction of an addition to the Pioneer Elementary School building for Eltopia School District No. 15, Eltopia, Washington.

The building consists of two classrooms, toilet rooms and limited work on existing classrooms; tilt-up concrete construction is used. Combined bids will be received for General Construction, Plumbing, Heating and Electrical. Plans and specifications may be obtained from the office of Charles A. Baylon & Associates, 912 Elliott Ave. W., Seattle 99, Washington upon deposit of $25.00 which sum will be returned to the bidder provided plans are returned in good condition with submitted bid, or provided plans are returned within five (5) days after issue if no bid is submitted. Plans and specification may be examined at the office of the Superintendent of Schools, Eltopia, Washington or in the office of Charles A. Baylon and Associates, Architects, 912 Elliott Ave. W., Seattle 99, Washington.

Each bid shall be accompanied by a certified check, cashier's check, or bid bond (with authorized surety company as surety) made payable to the Eltopia School District No. 15 in an amount not less than 5% of the basic bid plus alternates. Board of Directors of Eltopia School District No. 15 reserve the right to waive any informalities or irregularities in any bid or in the bidding, or to accept or reject any or all bids.

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.

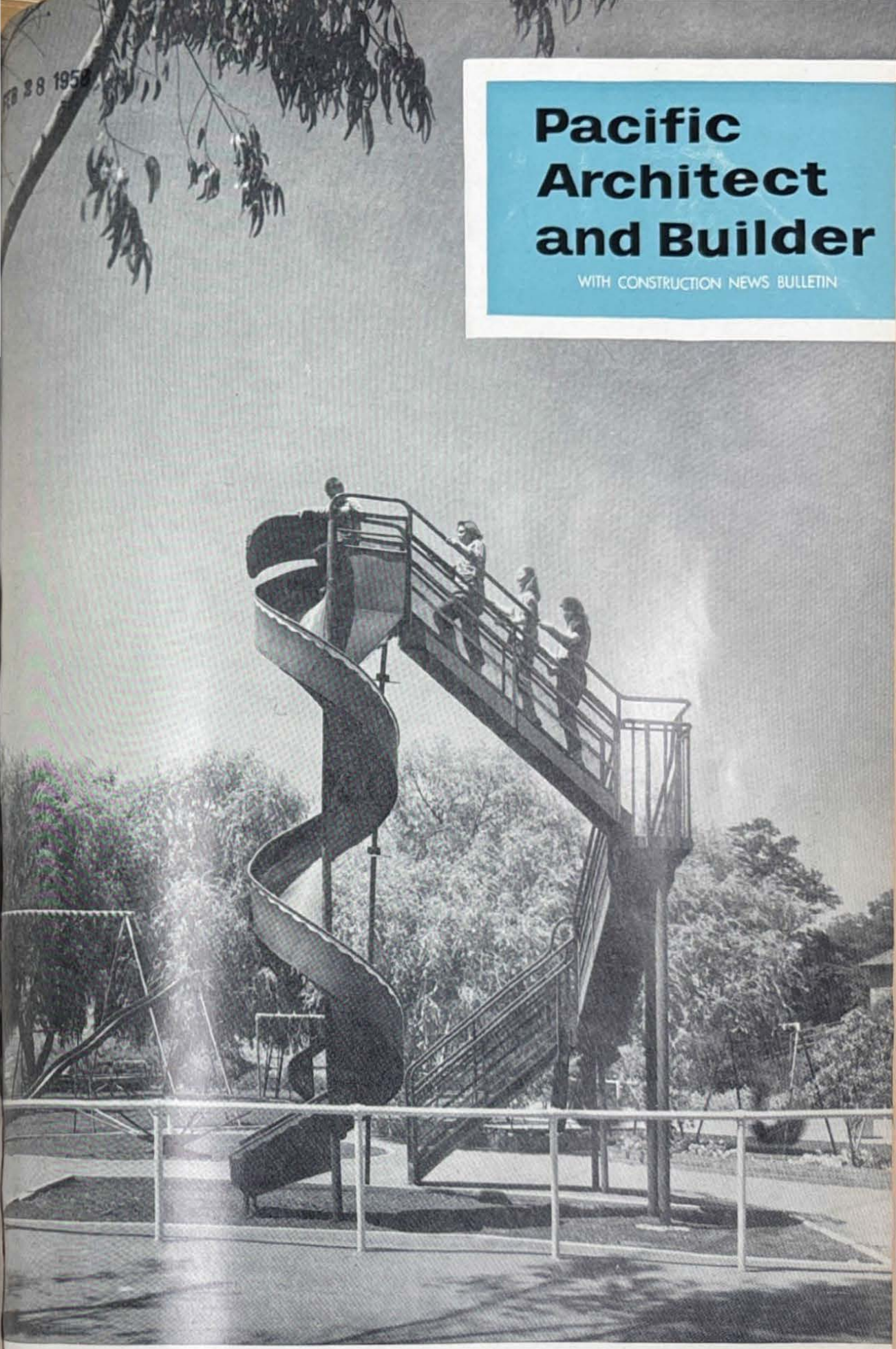
Eltopia School District No. 15
Everett Jones
Clerk
Eltopia, Washington

5976—10-23, 30; 11-13

FEB 28 1958

Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN



DESIGN THROUGH STRUCTURE
—as seen by an engineer

Park architects' office house restaurant

DECEMBER 1957

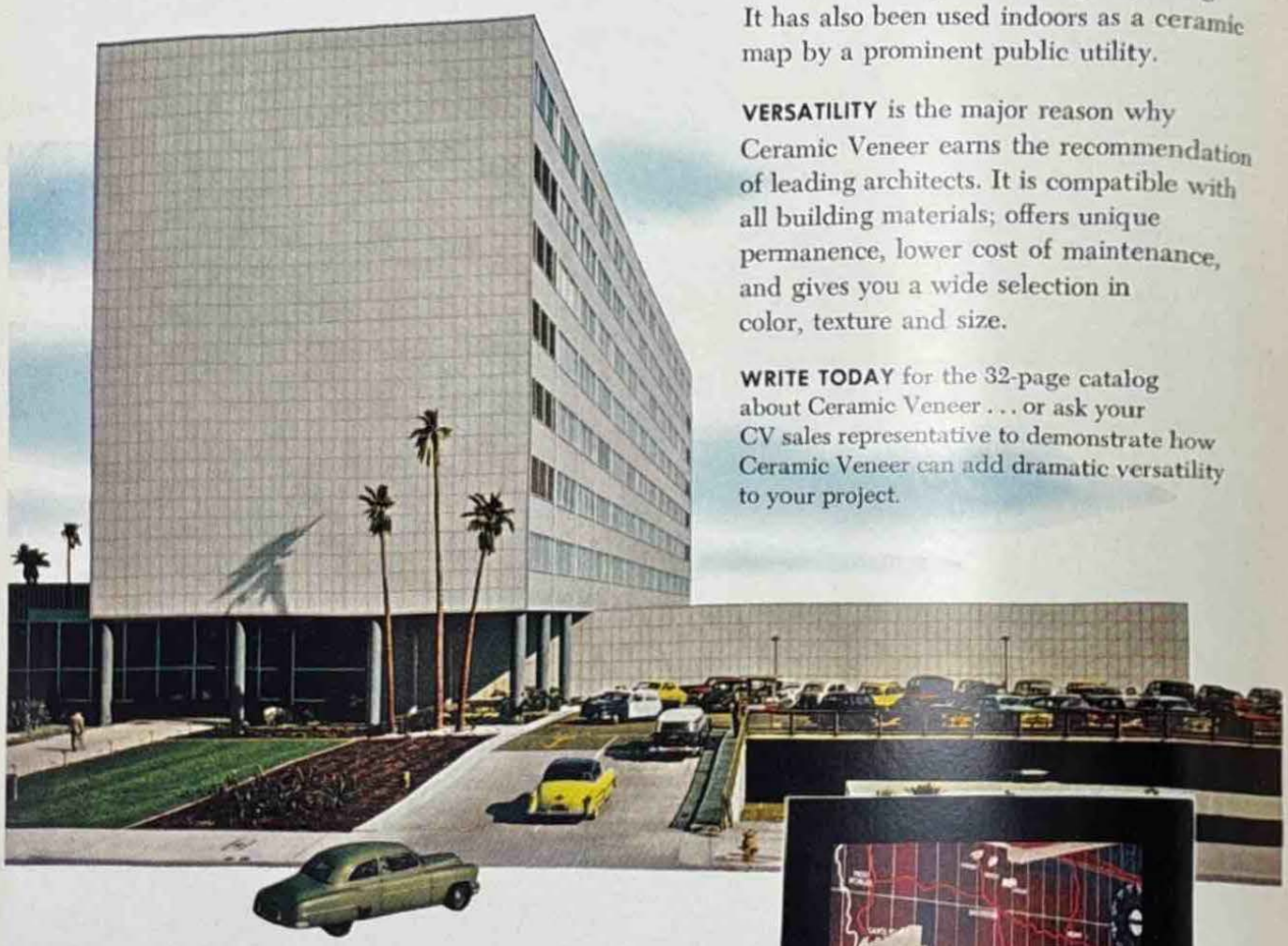
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Pacific Architect and Builder

VOLUME 63, NUMBER 12 DECEMBER 1957

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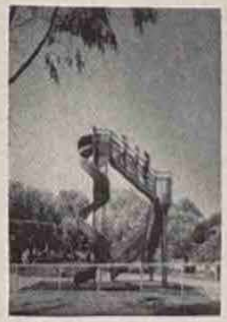
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THE COVER

Standard Oil Co. Rod and Gun Club Park, Richmond, Calif. (p. 18). Eckbo, Royston & Williams, Landscape Architects; Phil Palmer photo.

Seesaw building tally down again in November

After two encouraging months, building activity in the five western states slid back down to a $149,194,554 total for November, lowest monthly tab in years. The dollar volume is $38¼ million lower than the same period a year ago.

California, Oregon, Montana and Idaho all recorded considerably lower state totals, while Washington had a bare $250,000 increase over November 1956.

Compared to the previous month, all five state totals were down. This is not too surprising, however, since October was an exceptionally good month.

Following is a state-by-state comparison for the first 11 months:

	Jan.-Nov. 1957	Jan.-Nov. 1956
California	$1,779,061,431	$1,919,654,373
Oregon	110,671,686	142,784,329
Washington	254,698,017	285,775,455
Montana	21,508,877	28,822,950
Idaho	23,899,367	24,123,376

Dollar volume for the territory covered by PA&B is running some $200 million below last year. California is down $140½ million; Oregon, $32 million; Washington, $31 million; Montana, $7¼ million; Idaho, $¼ million.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during November. (First number in each category refers to number of permits, not number of units.)

ANALYSIS OF TYPICAL AREAS—DECEMBER

	DWELLING		COMMERCIAL & INDUSTRIAL		PUBLIC	
Portland	41	$ 806,355	38	$ 755,515	1	$ 60,000
King Co.	310	3,458,080	38	540,520	3	1,243,000
Seattle	357	2,930,636	158	2,444,126	1	140,000
Tacoma	64	291,690	19	88,795	1	252,000
Los Angeles Co.	1449	9,604,240	324	4,448,870	27	898,010
Orange Co.	294	3,904,658	16	133,175	1	10,000
Sacramento Co.	487	4,307,789	52	336,033	6	80,404

Building Permit Totals for 116 Western Agencies for November

CALIFORNIA	Nov. 1957	Oct. 1957	Nov. 1956
Alameda County	$ 4,250,950	$ 2,524,350	$ 3,236,250
Anaheim	3,460,845	3,420,418	2,179,765
Bakersfield	627,490	621,874	751,159
Burbank	1,274,067	573,801	432,003
Contra Costa County	2,561,834	3,321,888	1,831,620
Fresno	427,105	637,319	1,050,329
Fullerton	737,841	539,755	1,081,614
Glendale	918,780	999,920	1,083,237
Inglewood	540,835	835,090	746,730
Long Beach	2,815,080	3,793,475	4,047,525
Los Angeles	32,556,340	41,758,091	42,204,772
Los Angeles County	15,423,695	22,241,614	24,073,834
Oakland	2,149,381	2,920,374	1,423,855
Ontario	560,027	2,102,202	897,060
Orange County	4,453,689	4,294,326	8,516,558
Palo Alto	452,084	2,498,783	1,782,919
Pasadena	1,378,737	2,271,110	1,061,967
Pomona	1,411,499	1,088,338	1,440,089
Richmond	572,255	2,147,552	938,365
Riverside	795,048	965,572	2,190,654
Sacramento	1,636,866	1,928,880	1,781,447
Sacramento County	4,771,129	11,378,324	5,120,216
San Bernardino	806,409	3,056,115	1,018,799
San Bernardino County	4,059,411	4,661,491	5,656,873
San Diego	12,467,244	15,993,738	8,262,874
San Diego County	3,809,300	5,269,700	4,223,900
San Francisco	3,064,591	3,223,787	7,276,744
San Jose	4,143,175	5,228,095	6,773,770
San Mateo	653,416	7,414,418	1,161,655
San Mateo County	1,149,012	855,116	2,232,553
Santa Ana	626,465	5,361,989	3,557,274
Santa Monica	1,332,529	1,432,574	3,624,506
Stockton	386,967	1,300,432	1,012,066
Sunnyvale	2,857,350	3,123,211	1,454,650
Torrance	1,438,643	1,444,083	1,033,127
West Covina	449,770	2,571,555	1,074,466
TOTAL	$121,019,618	$173,799,360	$156,334,325

OREGON	Nov. 1957	Oct. 1957	Nov. 1956
Albany	$ 61,300	$ 443,250	$ 79,950
Astoria	12,474	29,225	15,905
Baker	78,485	70,067	15,350
Bend	102,750	121,825	101,572
Coos Bay	10,020	76,460	38,050
Corvallis	300,200	175,210	322,000
Eugene	153,699	1,907,981	566,015
Grants Pass	15,335	43,325	175,150
Gresham	140,029	146,835	43,900
Hillsboro	38,550	240,790	50,850
Klamath Falls	86,900	147,657	123,309
LaGrande	18,746	1,375	56,340
Lane County	277,603	335,766	336,932
Medford	257,805	220,395	331,212
Multnomah County	1,511,725	1,121,815	1,345,044
North Bend	51,142	16,290	24,500
Oregon City	22,155	28,874	54,250
Pendleton	89,750	233,740	114,250
Portland	2,206,010	4,971,970	3,541,585
Roseburg	40,329	38,032	112,235
Salem	228,394	319,360	230,988
Springfield	30,115	10,100	74,645
The Dalles	37,750	19,800	296,745
TOTAL	$ 5,771,266	$ 10,720,142	$ 8,050,777

WASHINGTON	Nov. 1957	Oct. 1957	Nov. 1956
Aberdeen	$ 36,034	$ 232,665	$ 202,472
Anacortes	39,275	29,165	58,825
Auburn	86,100	149,800	46,595
Bellingham	315,206	187,283	242,389
Bremerton	34,950	36,380	56,230
Centralia	547,216	69,140	39,339
Chehalis	22,217	126,487	14,958
Clarkston	26,935	35,785	28,571
Ellensburg	31,967	27,557	42,425
Ephrata	22,980	72,254	27,530
Everett	51,414	148,272	232,968
Kelso	35,100	37,450	13,200
Kennewick	91,200	59,590	49,650
King County	5,271,030	6,802,605	4,938,910
Kirkland	157,620	51,340	43,750
Longview	429,169	168,227	87,215
Moses Lake	63,410	53,753	151,316
Olympia	155,280	601,691	131,958
Pasco	27,900	867,885	53,800
Pierce County	579,825	1,711,339	2,586,696
Port Angeles	15,325	14,950	21,635
Puyallup	83,500	81,219	42,050
Ritzville	1,000	1,000	1,800
Seattle	5,611,575	6,110,499	3,692,219
Shelton	195,825	12,300	13,300
Spokane	1,884,034	2,202,881	2,202,749
Spokane County	1,123,465	1,808,705	1,527,903
Sumner	30,715	127,350	29,398
Tacoma	975,568	911,849	1,049,054
Vancouver	298,188	428,804	410,813
Walla Walla	28,281	103,583	210,125
Wenatchee	712,829	189,418	99,909
Yakima	901,491	327,086	254,261
TOTAL	$ 19,346,624	$ 23,788,312	$ 19,082,586

MONTANA	Nov. 1957	Oct. 1957	Nov. 1956
Billings	$ 368,300	$ 296,800	$ 191,000
Bozeman	61,000	94,600	55,000
Butte	46,627	12,000	411,154
Glasgow	48,800	77,475	24,100
Glendive	39,050	108,500	31,450
Great Falls	299,373	583,828	573,078
Helena	109,835	346,407	98,740
Kalispell	24,300	109,720	66,400
Lewistown	3,000	72,600	164,300
Livingston	19,600	30,485	28,050
Miles City	20,583	68,851	47,945
Missoula	68,650	72,912	30,500
TOTAL	$ 1,109,118	$ 1,874,178	$ 1,661,717

IDAHO	Nov. 1957	Oct. 1957	Nov. 1956
Boise	$ 417,311	$ 568,060	$ 848,643
Caldwell	20,485	134,150	52,518
Coeur d'Alene	51,916	135,370	420,550
Idaho Falls	579,650	1,099,400	342,830
Jerome	21,350	42,265	32,300
Lewiston	170,135	87,580	40,520
Nampa	52,400	78,837	255,250
Payette	150,000	1,740	28,200
Pocatello	224,681	1,422,439	254,429
Sandpoint	11,450	32,200	3,000
St. Maries	32,800	4,500	Nil
Twin Falls	215,750	179,050	141,656
TOTAL	$ 1,947,928	$ 3,785,591	$ 2,419,860
GRAND TOTAL	$149,194,554	$213,967,583	$187,550,263

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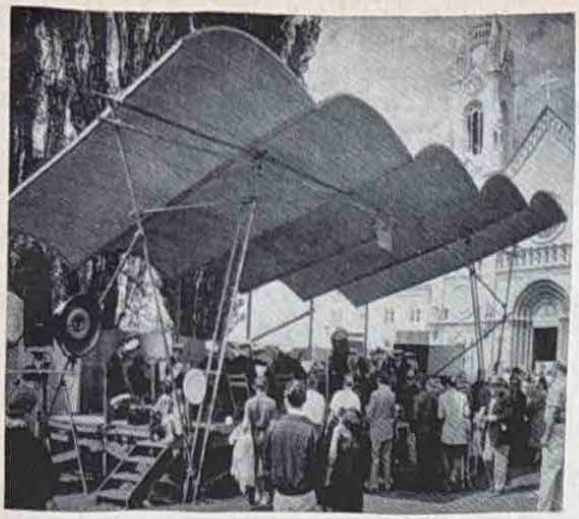
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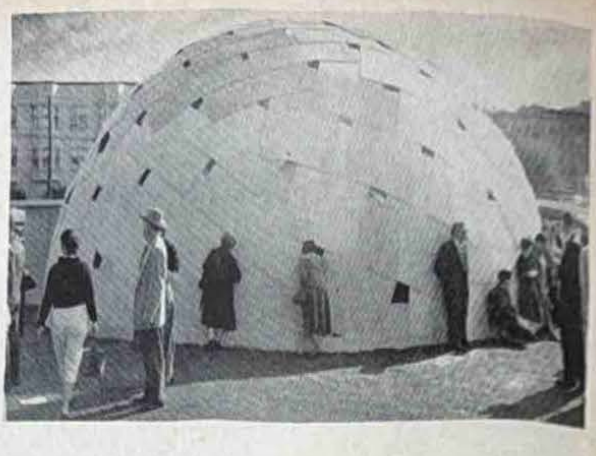
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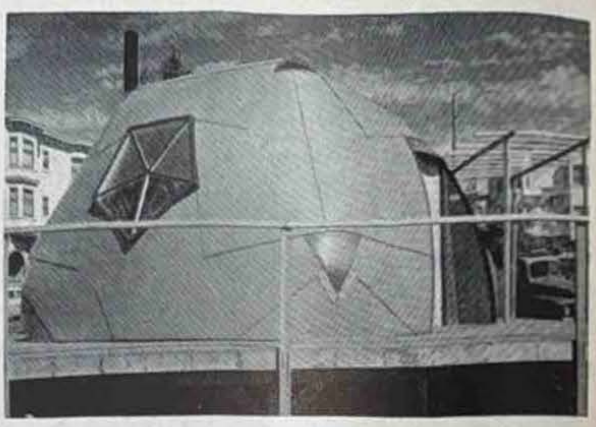
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TOP LEFT: Bandstand roof made of 4x9-ft. sheets of ¼-in. fir plywood, bent to fit an 8-ft. curve, can be prefabricated into vaults measuring 8x24 ft. Photo indicates how easily structure goes up.

TOP RIGHT: Built according to geodesic dome principle of Buckminster Fuller, plywood dome houses exhibit of San Francisco Chapter of Industrial Designers' Institute.

BOTTOM RIGHT: This 25-ft. dome, erected in 2½ hours, consists of plywood panels, lapped and bolted. Fiberglass and glass windows and skylight were fitted into apertures between panels.

NEWS

Vaulted roof, domes spark Arts Festival in San Francisco

San Franciscans who jammed Washington Square during the city's Arts Festival in September saw a lot more than pictures. Some of the structures built to demonstrate the "Arts in Architecture" theme were as interesting as the displays they sheltered.

Among them was a vaulted roof idea worked out for a bandstand by designers Evelyn and George Kosmak in conjunction with the engineering staff of Berkeley Plywood Co., a component fabricator. Noteworthy too were plywood translations of Buckminster Fuller's geodesic dome principle: one, 39-ft. in diameter and also developed by the Kosmaks, executed in nuts, bolts and ¼-in. panels; the other, designed by architects Marquis & Stoller, an application of the plywood dome to a do-it-yourselfer's kit for a home away from home.

For the bandstand, the Kosmaks produced a scalloped roof line with a series of five smaller vaults of sandwich construction, supported on light metal scaffolding. Each unit was 24 ft. long and 7 ft. wide, creating a sheltering canopy 24x35 ft. for the 16x32-ft. stage. Sandwich components consisted of light top and bottom plywood skins, glued to curved framing members.

Berkeley Plywood hopes to develop both the complete vaults and the sections as standard components.

The larger of the two domes was 39 ft. in diameter and 19½ ft. high at the center, producing a sheltered area of 1,200 sq. ft. Construction was accomplished by assembling 135 sheets of fir plywood lapped at the corners in a shingled effect. Corners were fastened with nuts and bolts, eliminating any semblance of conventional framing. Thomas E. Moore of Shell Structures, Inc., Denver, supervised construction.

The smaller dome, 25 ft. in diameter and enclosing 500 sq. ft. of floor space, was erected by Grae Structures, Inc. Construction was generally similar to that of the 39-ft. dome, with fir plywood panels lapped and bolted. Fiberglass and glass windows and skylight were fitted into the apertures between panels.

Grae Structures plan to market packaged components of 25-ft. or larger domes for erection as vacation cottages or small residences.

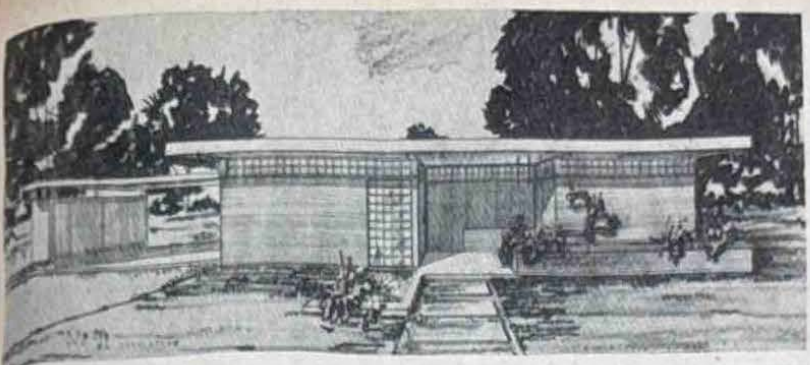
ACI regional meeting draws 200 to Seattle

About 200 engineers, technicians and suppliers, some from as far away as New York City, attended the 10th regional meeting of the American Concrete Institute in Seattle November 5-6.

Papers were presented by Jack R. Benjamin, Stanford University; T. J. McClellan, Oregon State College; Alfred L. Miller, University of Washington; Otto Buehner, Otto Buehner & Co., Ltd., Salt Lake City; Verne Frese, Layrite Concrete Products Co., Seattle; Harold S. Davis, General Electric Co., Richland, Wash.; Norman D. Lee, Foundation of Canada Engineering Corp., Ltd., Vancouver, B. C.; John B. Skilling and John V. Christiansen, Worthing & Skilling, Seattle, Edward K. Rice, T. Y. Lin & Associates, Los Angeles; Arthur R. Anderson, Birkeland & Anderson, Tacoma; and Alfred T. Waidelich, Austin Co., Cleveland. (Excerpts from some of these papers will appear in PA&B in future issues.)

Moderators at the three technical sessions were Dean H. E. Wessman of the department of civil engineering, University of Washington; William A. Bugge, director of the Washington Highway Department; and Roy W. Morse, Seattle city engineer.

R. H. Lochow of the Portland Cement Association headed the Seattle committee in charge of arrangements.



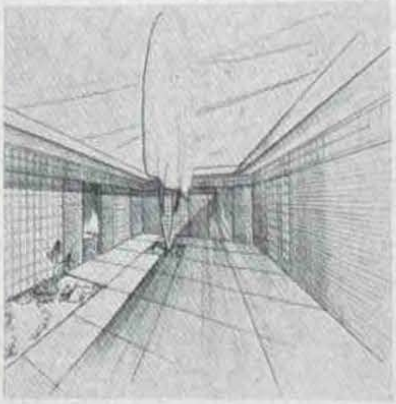
TYPICAL LOW COST HOUSE and exterior court for atomic age as envisioned by brick and tile engineers. Protection is offered by reinforced brick walls and tile roof panels. Windows are eliminated, but natural light is obtained through glass block panels at top and side of walls.

'Survival house' design result of atomic tests

Stemming from the results of the Plumbob nuclear tests held in the Nevada desert earlier this year, a "survival house" for sheltering families within range of an atomic bomb blast has been designed by brick and tile industry engineers.

A 32x28-ft. windowless building constructed with 10-in. reinforced brick walls successfully withstood the effect of the blast in tests sponsored by the Structural Clay Products Research Foundation and the Federal Civil Defense Administration.

The survival house as seen by C. B. Monk, manager of architectural and engineering research for the foundation, would be a one-story residence that could be built at a cost of only $1 or $2 more per square than an ordinary building. Windowless brick walls, 5½ in. thick, would be reinforced with steel rods and joined to the roof and floor. Glass block wall panels could provide natural light.



Dean of Hawaiian architects dies in Honolulu

Hart Wood Sr., who was instrumental in creating the Hawaiian type of architecture, died at the age of 76 in Honolulu October 6 after five years of illness.

A native of Philadelphia, Wood went to the islands in 1919 as chief designer for C. W. Dickey and later became a partner in the firm. During that time he designed the Alexander & Baldwin Building, which is noted for its works of art. In 1952 he formed his own firm called Wood, Weed & Associates, now known as Wood, Weed & Kubala, Ltd.

Wood, who was made a fellow of the AIA in 1948, won a national award from the American Association of Nurserymen for Honolulu's Board of Water Supply pumping stations.

Pasadena gives top awards to five buildings

Five projects received top recognition in the Centennial Honor Awards program of the Pasadena Chapter, AIA, while nine others were runner-ups. Presentations were made at a banquet in the Huntington-Sheraton Hotel November 6.

Honor awards went to the following:

- Mobil Service Center, Santa Ana: Smith & Williams, architects; Roulac Co., contractor.
- Arthur Amos Noyes Elementary School, Pasadena: Boyd Georgi-Lee B. Kline, associated architects; Hight Construction Co.-Stephen F. Owers, contractors.
- Mountain house, Lake Arrowhead: Burge-Roach, Henry Charles Burge, architect; Burke Malcolm, contractor.
- Richard Leitch residence, Altadena: Richard Leitch, architect and contractor.
- Methodist Hospital of Southern California, Arcadia; Neptune & Thomas, architects; Twaits-Wittenberg Co., contractor.

Merit award winners were:

Proposed industrial building for Nethercutt Laboratories; Burge-Roach-Romberger, architects: Mackintosh & Mackintosh, engineers.

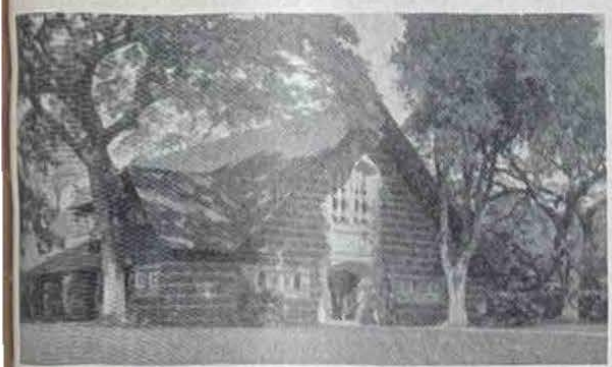
Remodeled medical offices, Pasadena: William L. Rudolph & Associates, architects; Stephen F. Owers, contractor.

College Car Wash, Pasadena: Smith & Williams, architects; Roulac Co., contractor.

Industrial building for B-J Electronics, Division of Borg-Warner Corp., Santa Ana; John Kewell & Associates, architects; C. L. Peck, contractor.

Architects' office building, Pasadena: Neptune & Thomas, architects; Peter Probst, contractor.

Burton Romberger residence, Lido Isle: Burton Romberger, architect; F.





TWO BUILDINGS which brought national recognition to Hart Wood Sr. are shown here. Christian Science Church, completed in 1923, became prototype of many others designed with cut stone and lava rock laid in horizontal courses. Honolulu branch office of Gumps of San Francisco is probably one of the best examples of oriental influence on Hawaiian architecture.

H. Glockner, contractor.

Boyd Georgi residence, Altadena: Boyd Georgi, architect; Johnson Co. and Paul Cattin, contractors.

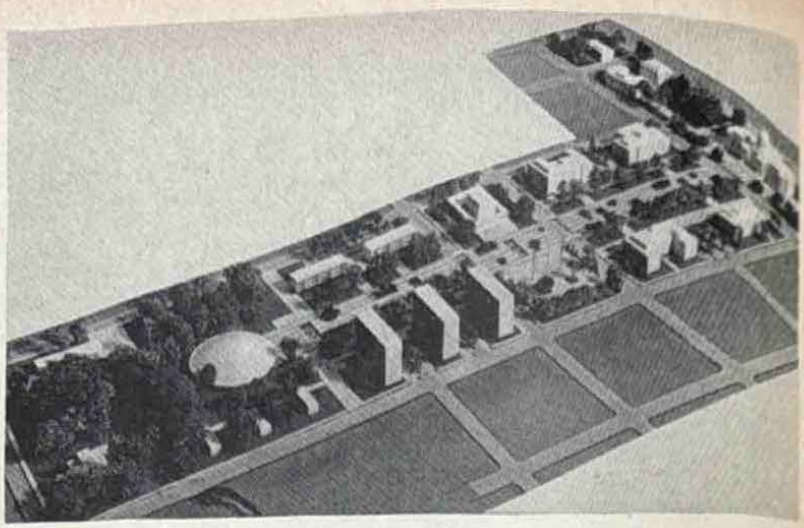
Azusa High School, Azusa; Neptune & Thomas, architects; Crown Construction Co., contractor.

San Rafael Public Library, Pasadena; Culver Heaton, architect; Thomas F. Smith, contractor.

Briefly noted . . .

The Building Center Exhibition, featuring displays of the AIA, the AID, the American Institute of Landscape Architects and manufacturers of materials and equipment, has opened at 7900 W. Third St., Los Angeles.

Master plan for San Francisco's civic center, designed to meet its needs for the next 20 years, is being studied by city officials. The designers—the architectural firms of Wurster, Bernardi & Emmons and Skidmore, Owings & Merrill in collaboration with DeLeuw Cather & Co., engineers—positioned nine new public buildings, five parks, convention and parking facilities.



MASTER PLAN FOR OREGON STATE CAPITOL MALL as tentatively approved by Capitol Planning Commission. Capitol at far right is one of four existing buildings.

Oregon capitol mall proposal embraces 16 buildings

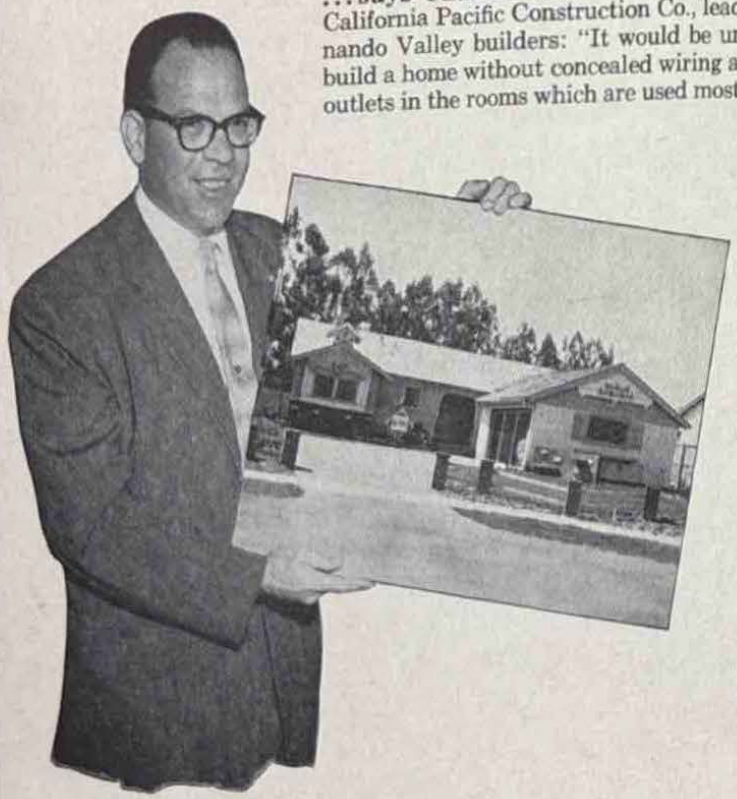
Twelve projected buildings are included in the master plan for the state capitol mall development in Salem, Ore., which has been tentatively approved by the Capitol Planning Commission. The capitol itself is presently flanked by the public service, highway and library buildings.

Construction of three of the structures is seen in the immediate future: 1) labor and industries building for which the 1957 state legislature appropriated $3 million; 2) state motor vehicle building of 40,000 sq. ft.; and 3) new supreme court building of 30,000 sq. ft.

The Eugene architectural firm of Wilmsen & Endicott is being assisted in the planning by architects Herman Brookman of Portland and Francis Keally of New York and landscape architect Lloyd Bond of Eugene.

Built-in phone outlets build up a home's value!

...says Charles A. Hirschman, president of the California Pacific Construction Co., leading San Fernando Valley builders: "It would be unthinkable to build a home without concealed wiring and telephone outlets in the rooms which are used most."



No matter how you look at it, as a builder or a buyer, you want a well-built home above all. And one of the features that speaks for a "quality" home is Telephone Planning. As Mr. Hirschman says, "Telephone outlets in rooms used most, concealed wiring and color phones add much to the value of the home." You'll find them in homes like Mr. Hirschman's, built with an eye to better living and satisfied buyers in mind.

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It pays to include Telephone Planning in every home you build!

Southern California picks 'finest five' projects

After reviewing presentations of the "foremost forty" buildings and visiting 12 of them, a five-man jury selected the "finest five" in the Triennial Honor Awards program of the Southern California Chapter, AIA. More than 200 entries, representing work built within the last five years, had been screened by 24 previous honor award members.

The jurors—Los Angeles industrialist Charles Ducommun, actor Vincent Price and architects John Carl Warnecke of San Francisco, Philip Will Jr. of Chicago and George Nelson of New York—explained in their report that they had taken into account the fact that owners and contractors as well as architects were being honored.

"Good building and the improvement of human environment is a collective effort for which responsibility is shared," the report stated. "A building does not exist until it is built. It cannot be good unless it is accurately built with good workmanship. Good design can only be created by the happy marriage of a thoughtful client and creative architect. With such criteria the success of a building cannot be measured solely by its expression of the owners' program.

"We must, in fact, consider the propriety of the program itself in serving the greater good of society. A good building on a badly located site is not deserving of premiation. Nor is one which does violence to neighborhood geography—or creates economic, esthetic or social problems that others cannot properly be asked to solve. In our awards, therefore, we attempted to measure accomplishments beyond the narrow limits of purely architectural concepts."



Marvin Rand

ATTORNEYS' OFFICES for Clock, Waestman & Clock, Long Beach: Edward A. Killingsworth and W. Waugh Smith, architects; Wallace Wilson, contractor.



Julius Shulman

NORTHROP AIRCRAFT, INC., engineering office and cafeteria buildings, Hawthorne: Pereira & Luckman, architects; Vinnell Co., Inc., contractor.



Julius Shulman

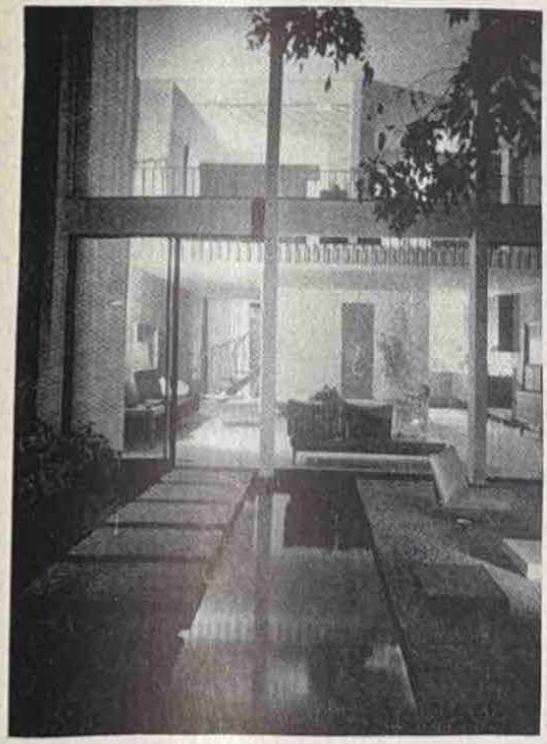
NEIGHBORHOOD CHURCH, religious education building and children's chapel, Pasadena: Smith & Williams, architects; Ted Tyler (education building) and Roulac Co. (chapel), contractors.



Julius Shulman

POLICE FACILITIES BUILDING, Los Angeles: Welton Becket & Associates and J. E. Stanton, associate, architects; Ford J. Twaits Co., contractor.

RESIDENCE for Richard Opdahl, Long Beach: Edward A. Killingworth and W. Waugh Smith, architects and contractors. Marvin Rand



Design through structure

'should it become a prevailing trend, could mean the architect's withdrawal and surrender'

by EDGARDO CONTINI

I WOULD LIKE to take issue with the implication of the very title of this symposium, "Design Through Structure." I hope that I will be allowed to take a critical stand without fear that the motives may be misunderstood by my architect friends or my engineer colleagues who know that I have worked for long toward a more constructive understanding of the relationship between structure and architecture.

It is interesting to note that an entire day of this conference is given to a discussion of matters of structure. Not long ago, at a national gathering of young architectural teachers, the major topic was carried by a panel of engineers on the subject of structural forms. Perhaps these two instances should be reasons for rejoicing and concluding that great progress has been accomplished during the past few years in bringing again together the two component parts of the building art that had been arbitrarily separated about a century ago by the discovery of mathematical analysis; reasons to surmise that a fresh love is blooming and that perhaps out of this match, the new forms of the architecture of our time will be created.

Yet, upon closer analysis one discovers something unusual, something one-sided in this courtship. It can be noticed that there has been a far more aggressive initiative on the part of the architect toward the engineer than vice versa, and and I know of no architect that has been invited to speak about form at a gathering of structural engineers. I fear that the emphasis of purpose is being somewhat misplaced: marriage is perhaps not intended!

What should have been on the part of the architect primarily an effort toward better understanding of structure and structural principles, an attempt to make the acquired knowledge and sensitivity to structural behavior an integral part of his creative background, which would widen and enrich his design potential, has instead become merely participation in a kind of glorified refresher course, designed not so much at passing a higher standard of examination as to acquaint the architect with the latest tricks of the structural trade. Thus "educated" he will be in the forefront, ready to grasp the latest form, the cleverest trick for incorporation in his very next project (and for publication in the earliest available architectural magazine). I fear that the too ready and uncritical interest of the architect in things structural betrays something of a forfeiture of his responsibility as a creator of environment and of his function as the maker of the physical forms of the society of which he is part.

Design, architectural design, the creation of environment, are ultimately the responsibilty of the architect, and it is very seldom that structure alone is adequate to create environment or even to express architectural sensitivity. There are, of course, exceptions: some unconscious, such as the beautiful outstretched arms of the pylons supporting the suspension cables for the gas line across the Mississippi River; and some very conscious, such as Maillart's bridges, in their extremely sensitive response to the natural environment in terms of form and scale—a response that is revealing of Maillart's very rare twin gift of design sensitivity and structural inventiveness.

Otherwise, in general, a structural expression alone, however brilliant, however imaginative, however "tensional" or "tetrahedral," is not adequate or self-sufficient as an expression of architecture. Thus "design through structure," should it become a prevailing trend, could mean the architect's withdrawal and surrender.

I do not imply, of course, that structure is not an essential part of architecture and that the ultimate form should not respond and, in many cases, express the elements of structure. On the contrary, I rather take this for granted and go beyond. I believe that not only we should be understanding of and ready to develop the potential of new structural forms, but we should also acquire the critical sensitivity necessary to exercise choice or rejection of structural forms and capable, if a choice is made, to carry through its implementation and its integration with the project as a whole. I believe that we should cease to drool, by reflex reaction, every time a new building is covered by a thin shell dome or an entrance canopy is constructed with involved concrete shapes. I feel that it is time to develop a much more mature critical evaluation of the relationship between structure and form and cease to be taken in by the very novelty and cleverness of the forms that the structural engineer has evolved, with ingenuity and curiousity, out of available materials and techniques.

It is very important that this critique be developed and expressed in our architectural magazines. They have been very useful instruments in awakening the interest of the architect toward the structural forms and in bringing together the thinking of the engineer and the architect; yet they have been, in general, somewhat unsophisticated in analyzing the finished product this new relationship has brought about. It is also very important that this critique be developed in the schools by giving added emphasis to the ability to DESIGN and less reward to superficial cleverness. Of course, I do not advocate by this a return to academic formalism, but rather a wariness of the trend toward eclecticism that has received disproportionate acceptance in the solution of classroom problems.

I believe we need more critique and more tolerance of critique. Of course, critique in all matters of design, and especially in the architectural field, is a controversial subject. Yet it is still the best tool for cultural growth. When analyzing the combined product of architectural design and structural inventiveness, there are a number of different criteria of critique that can be exercised.

First indeed, is the criteria of balance and harmony. The question should be raised, once a structural form is selected and expressed, whether its relationship to the building as a whole and to its surroundings is an accomplishment of total aesthetic balance. Let us consider, for instance, the St. Louis Airport. (Incidentally, I hope that, by choosing as the first target an example toward the design of which I was a contributor, I will be given absolution for any other critical remarks that might follow.) In the St. Louis Airport, an old form (the Roman basilica) was revived in proportions and scale consistent with

Continued on p. 31

Edgardo Contini, chief engineer of the architectural-engineering firm of Victor Gruen Associates, with headquarters in Beverly Hills, Calif., delivered this address before the 1957 convention of the California Council, AIA, at Coronado.



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Architects: Meyers and Evers. Contractor: Cahill Bros.



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Phoenix 2026 South 11th Ave., ALpine 3-3178
Salt Lake City 220 Greyhound Bldg., EMpire 3-7728
Dallas 528 Interurban Bldg., Riverside 1-5225

Zones suggested by space articulation

Philip B. Feldman Residence
Portland, Oregon

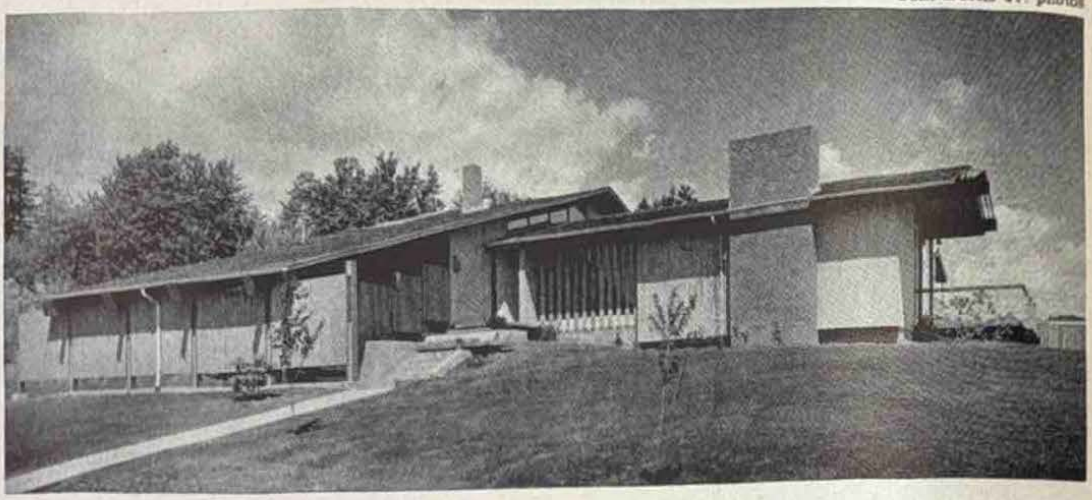
SAUL ZAIK, Designer

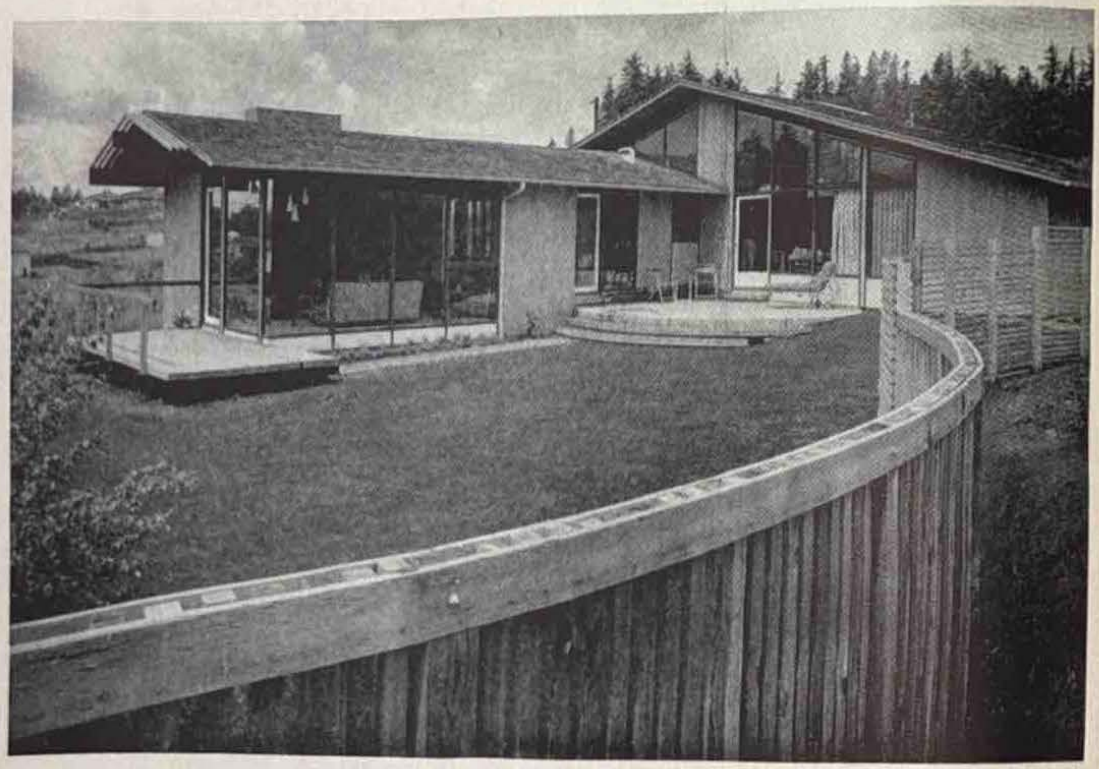
ED ERICKSON, Landscape Architect

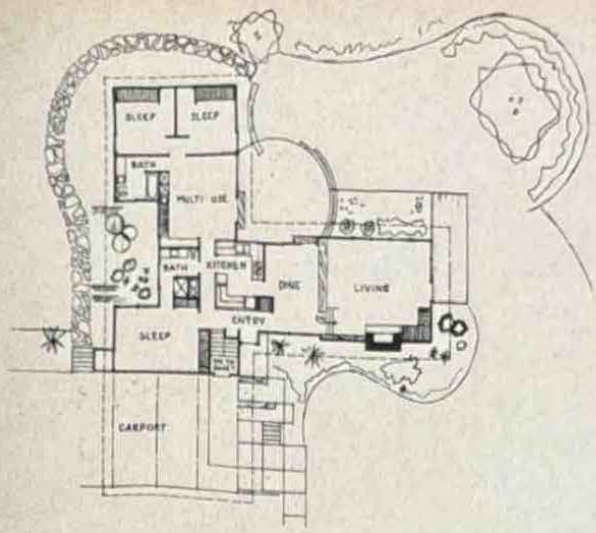
MAX SHIMSHAK & SON, Contractors

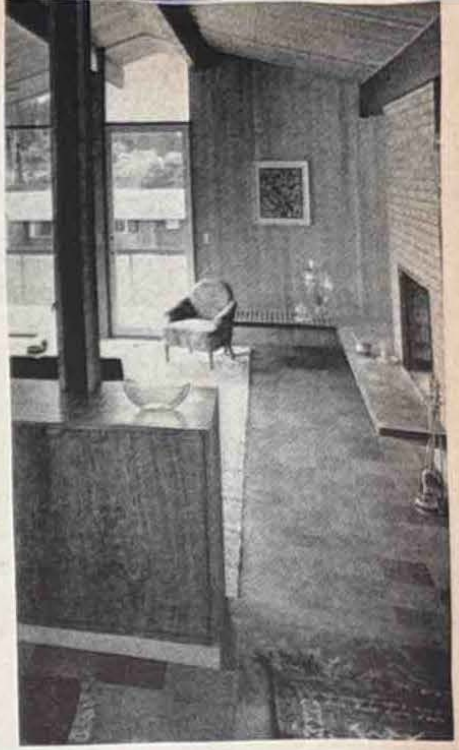
HOUSE FROM WEST REFLECTS closed view with only entry apparent. Living area drops few steps to flatter grade, as does carport. Living areas open to enclosed garden (planting at this stage is barely started), with kitchen and work areas at center of house.

Tom Burns Jr. photos

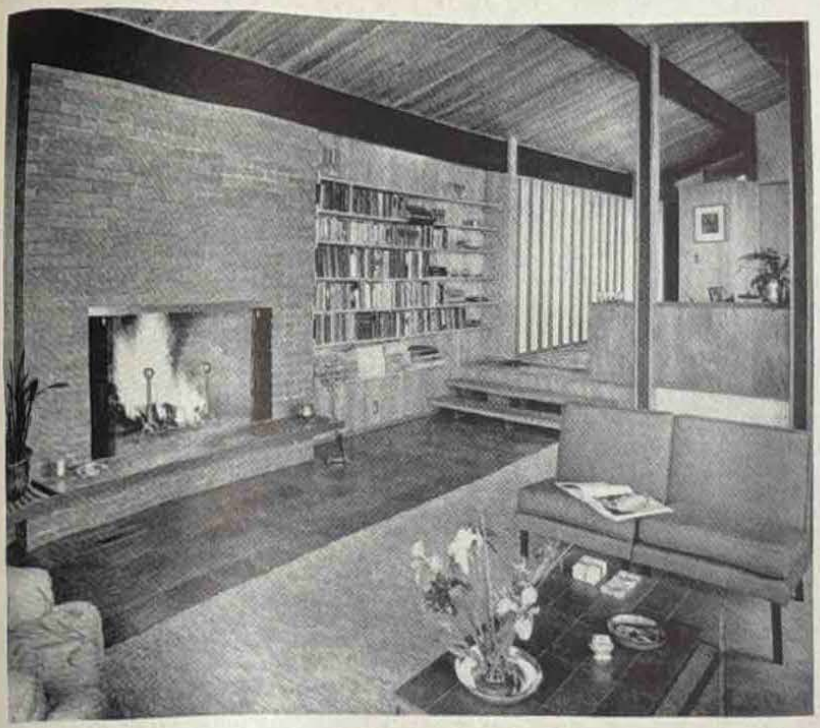








SPACE FLOWS vertically over partitions, cabinets, etc., leaving much opportunity for lighting situations, both natural and indirect.



OUTLINE SPECIFICATIONS

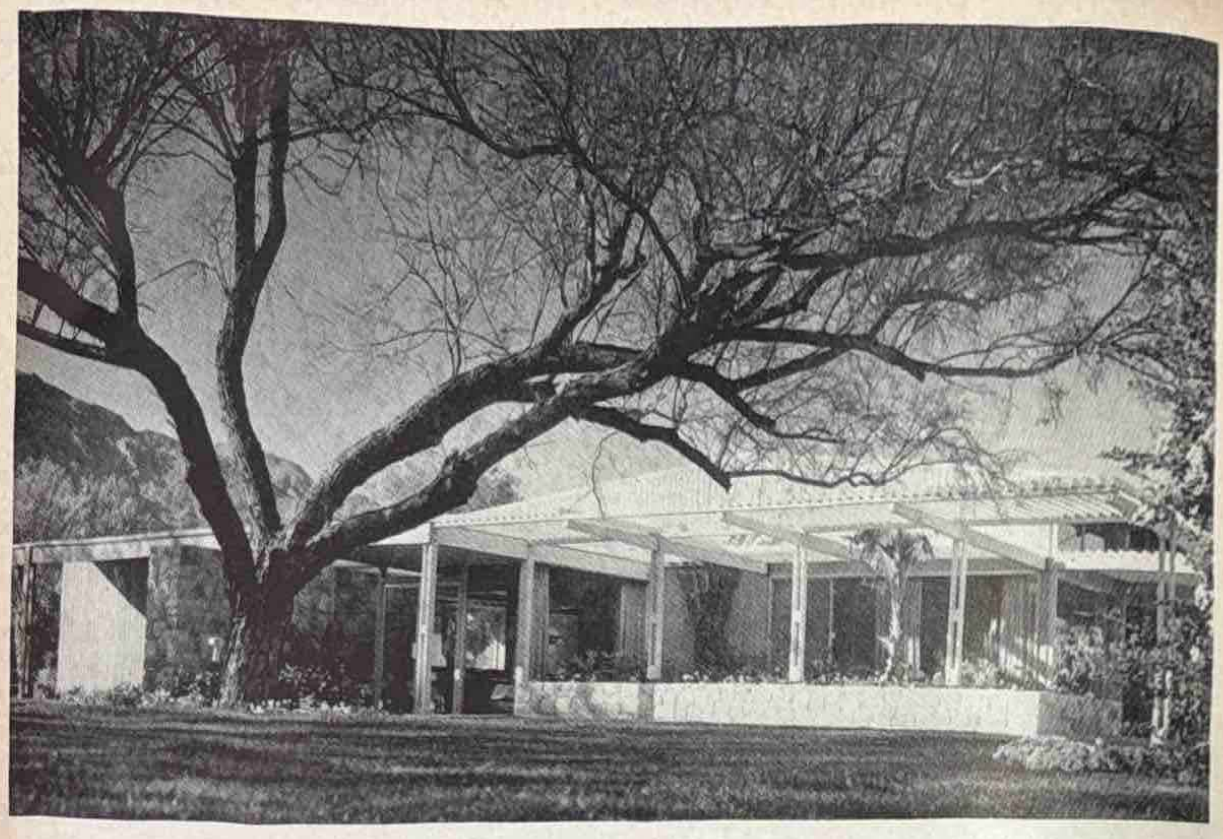
Structure: Fir post and beam; 2x4 t&g roof decking.
Exterior Finish: 1x4 resawn cedar; fir trim.
Roof Surfacing: Red cedar shingles; fiberglass insulation.
Windows: Wood casement; hardware—Whitco.
Doors: Exterior: fir solid core; interior: fir hollow core—United States Plywood Corp.
Floor Surfacing: Cork—Dodge Cork Co., Inc.; linoleum, kitchen and baths—Armstrong Cork Co.
Interior Walls and Partitions: Hemlock, cedar paneling; fir trim; drywall—United States Gypsum Co.
Ceilings: Exposed t&g decking.
Cabinets: Sen plywood—United States Plywood Corp.
Heating: Oil fired warm air furnace—The Heil Co.
Total Area: 1,900 sq. ft. plus carport and partial basement.
Total cost: $30,000.
Cost per Square Foot: $13.50 (house); $5 (carport and basement).
Date of Completion: September 1956.

DESIGN REQUIREMENTS for this residence formulated about a young couple anticipating a family; specific space requirements called for a master bedroom, two children's bedrooms and a multipurpose room plus normal living, dining and storage facilities. Located in a fast developing area southwest of Portland, the gently sloping corner lot, which was bare of plant material, necessitated inward orientation to a sheltered garden.

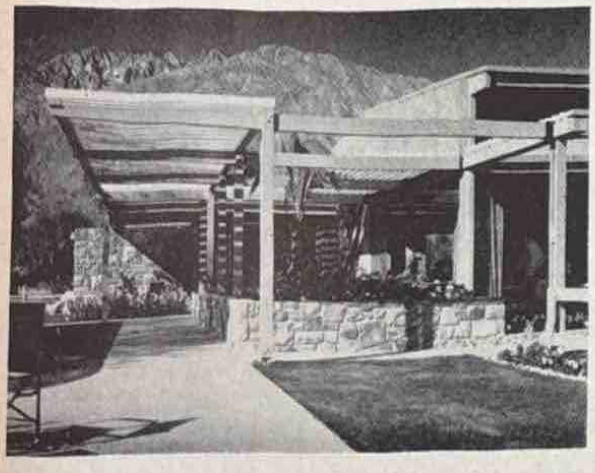
The designer attempted to use a modular structural frame without accepting its total discipline: i.e., employing a simple roof or shelter system without relegating walls to the same rigidity. He took advantage of the cantilever principle wherever possible to shorten spans.

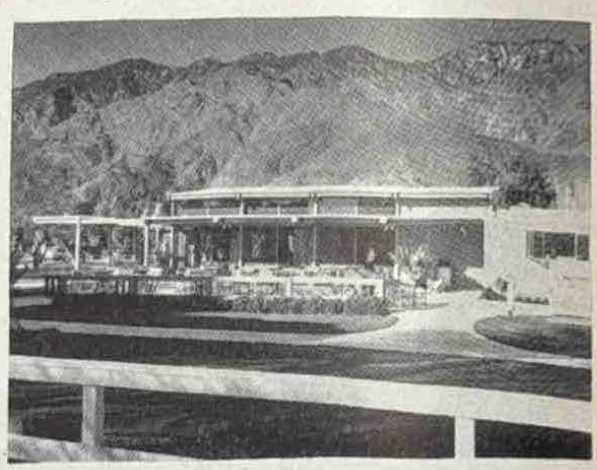
With the entry at the core, the house is zoned by space articulation rather than cubicles. The plan is relatively open in the active areas, relieved by subtle variations of vertical spaced screened units. These areas are scaled with proportionately higher ceilings, while the bedrooms are pulled under the lower eave spaces at the extremities of the complex for intimacy and security.

The house is composed almost completely of native woods—cedar, fir and hemlock—, but such materials as gypsum board have been incorporated for color emphasis and sparkle.



INFORMAL CALIFORNIA STYLE, which is exerting strong influence in restaurant design across country, is seen here at its best. Gnarled trees become integral part of plan, help develop indoor-outdoor theme. Outdoor dining terrace receives morning sun.





Design meets challenge of site

THE CLIENT presented the architect with this problem: to develop a restaurant design which would reflect the hospitality characterizing one of the oldest guest ranches in Palm Springs. The locale was an Indian camping ground centuries ago and today descendants of the same tribe live and own property in the area. With the 11,000-ft. San Jacinto Mountains as a backdrop, the site is enhanced by a stand of gnarled trees which have been incorporated in the overall plan. Indigenous fieldstone and river-washed boulders used for structural elements and garden decor effect an integration of the building with its primeval setting.

The casual, relaxed vacation living found on the ranch is mirrored in the expansive use of glass which permits full enjoyment of the panorama and steel sliding doors provide easy access to the out-of-doors. Interior lighting is indirect except for spotlights.

The wood frame structure has an exterior of naturally treated redwood siding. Interior walls are finished in Japanese ash. Arched laminated beams span the central main dining area; and secondary areas, as well as some of the patio space, are roofed with laminated wood decking over timber beams.

Deep Well Restaurant
Palm Springs, California

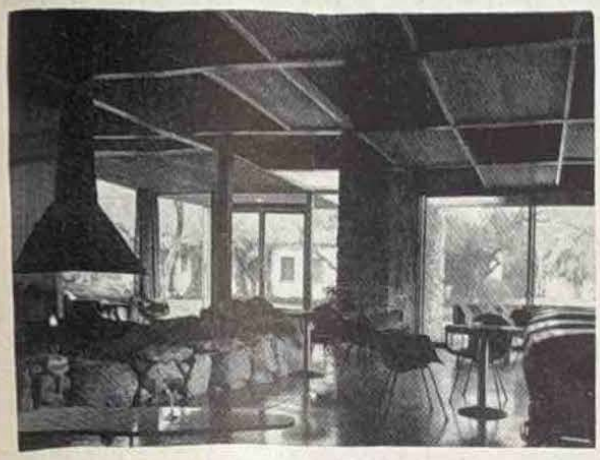
DANIEL L. DWORSKY, AIA, Architect

REUBEN ALVY, Structural Engineer

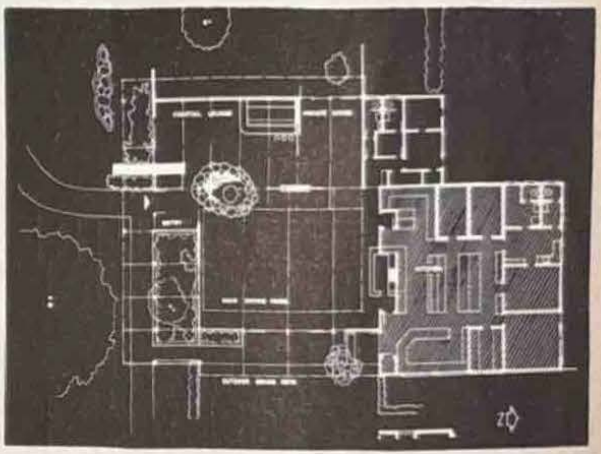
DRIVER & EDDY, General Contractors

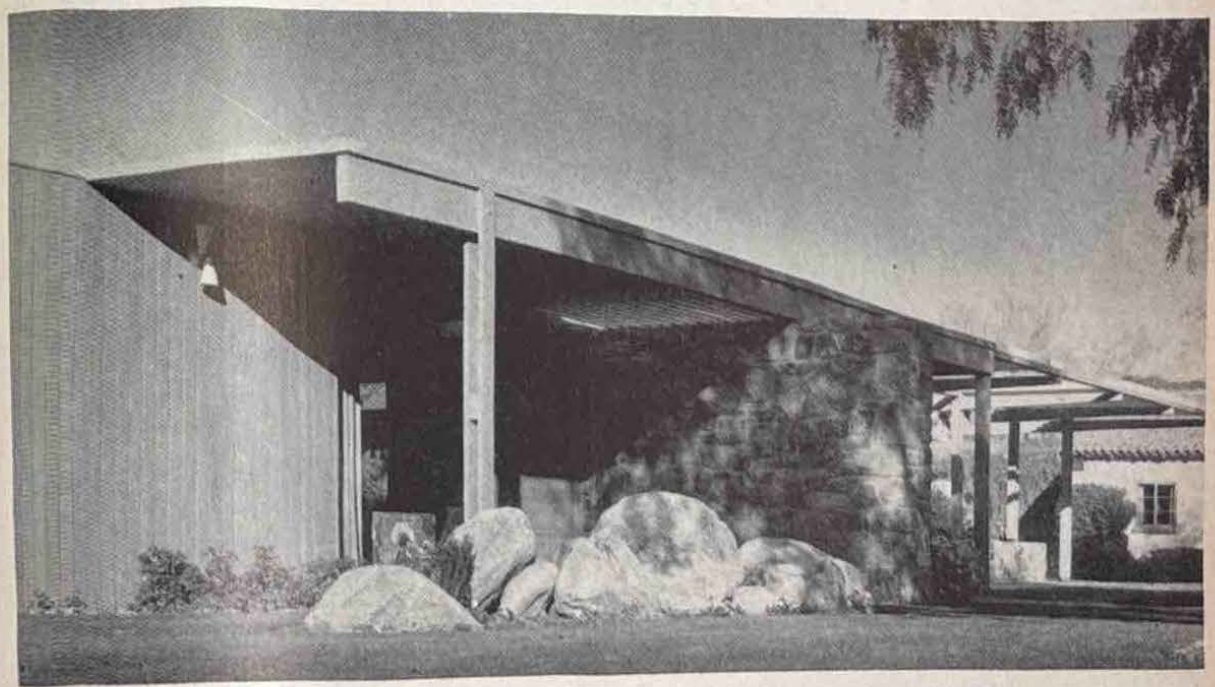
OUTLINE SPECIFICATIONS

Structure: Bent laminated beams supported on wood columns; t&g roof.
Exterior Walls: Redwood siding, local rock.
Roof Surfacing: Composition with white reflective coating.
Windows: Sliding—Arcadia Metal products.
Doors: **Entrance:** aluminum — Acme Metal Molding Co; sliding—Arcadia Metal Products.
Floor Surfacing: Asphalt tile—Mastic Tile Corporation of America.
Interior Walls and Partitions: Plaster, Japanese ash paneling.
Ceilings: Exposed t&g decking between laminated beams.
Lighting: Indirect neon and fluorescent tube, spotlights as accents.
Heating: Forced air and evaporative cooler.
Total Cost: $80,000.
Total Area: 8,000 sq. ft.
Date of Completion: 1954.



LOAD-BEARING FIELDSTONE PIER and casual arrangement of river boulders create focal point at entrance, are repeated inside. Fireplace hood suspended over steel brazier in rock-rimmed pool of water serves as divider between dining room and lounge.



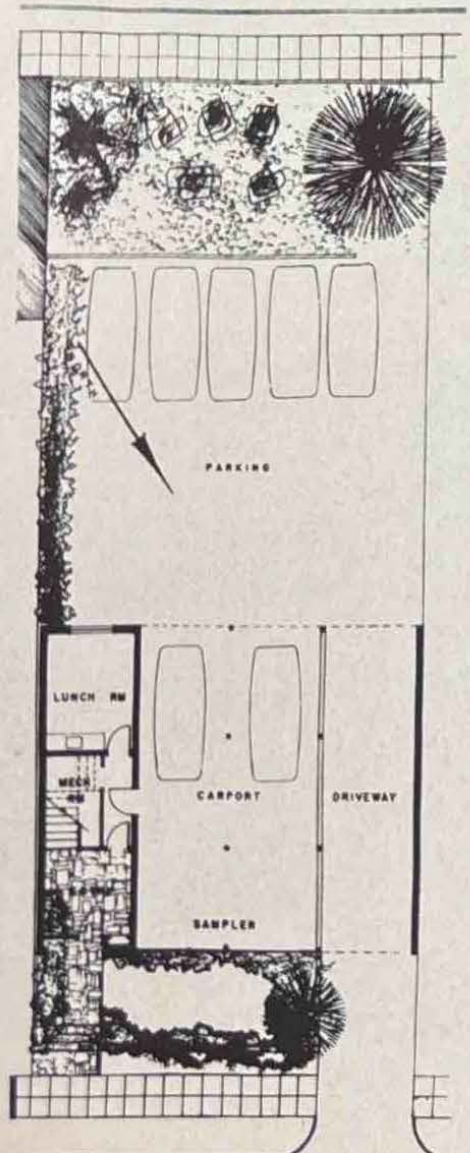


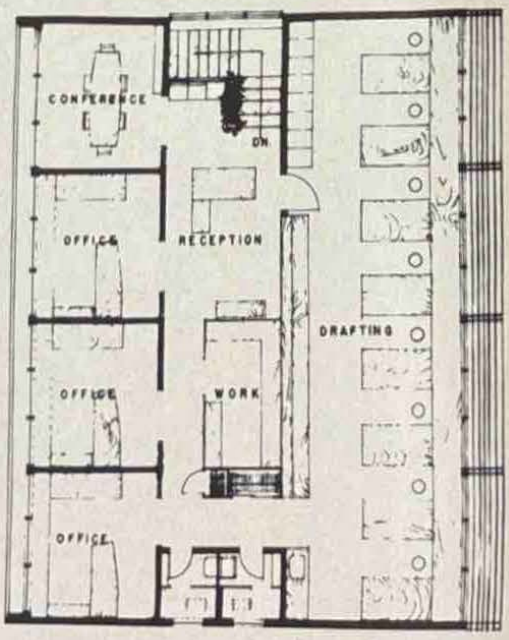


Chas. R. Pearson photos

Where architects hang their hats

LEA, PEARSON & RICHARDS
Tacoma, Washington





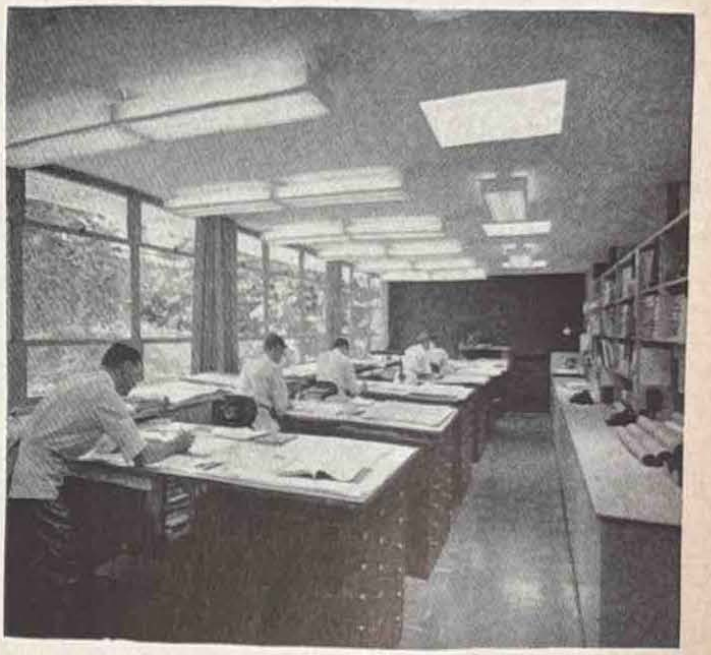
SECOND FLOOR

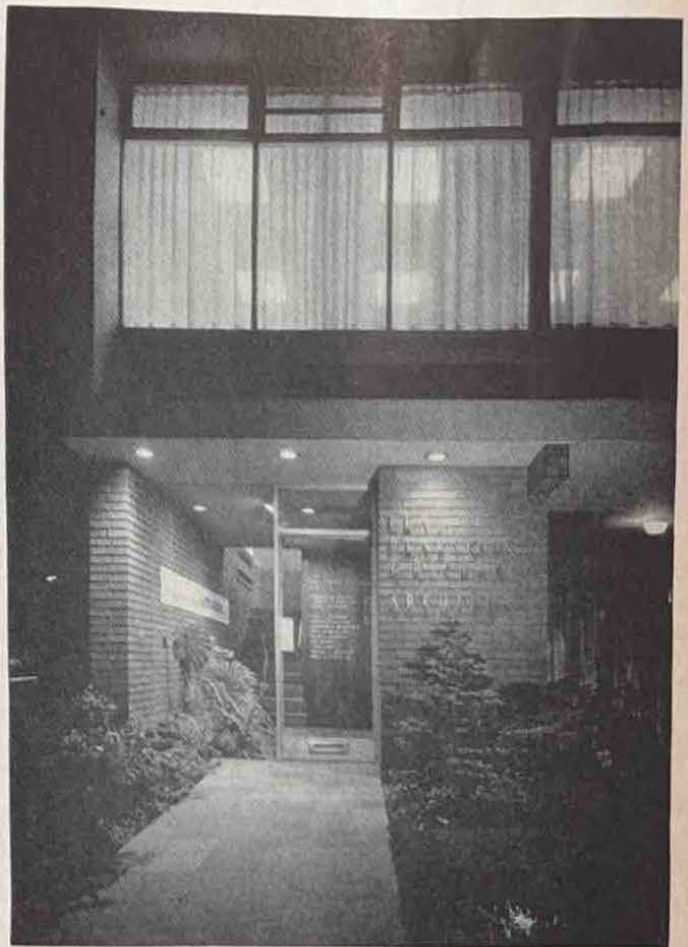
HOME of this architectural firm, which is celebrating its 21st anniversary in December, is sited on a 50x120-ft. inside lot, overlooking Commencement Bay and the industrial section of Tacoma. A two-story building was planned to take advantage of an unobstructed view of the water, to provide access to the rear of the structure for parking and to get above the traffic of the heavily traveled street on the east.

The first floor, three-fourths of which is open, contains an auto drive-through, covered parking for two cars, entrance hall and stairway, heat exchange room and lunchroom. The second floor, forming a rectangular box, 50x40 ft., is supported on brick cavity walls and steel pipe columns which are spanned by glued laminated beams.

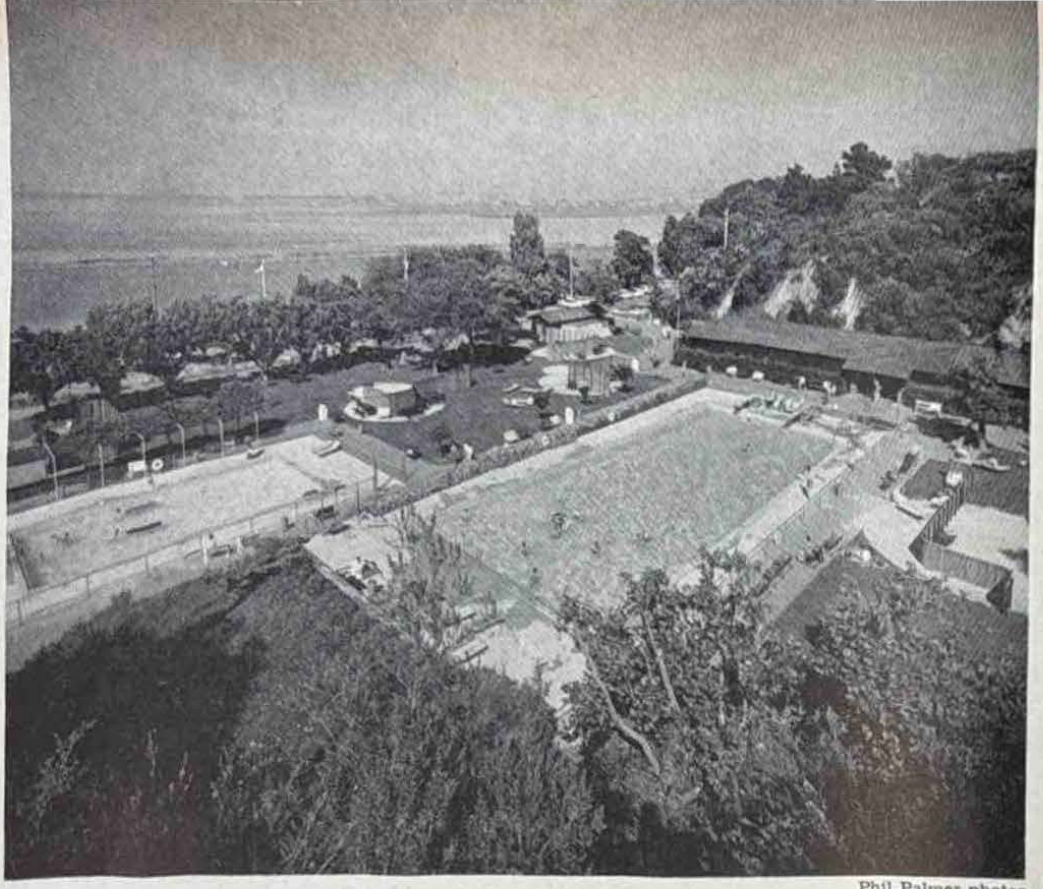
Green vinyl coated floor tile and rubber base are used throughout the second floor. Plywood and gypsum board walls are painted white, green and pale yellow. Ceilings of the conference room and private offices are 12x12-in. fissured mineral tile with flush edges. Each of these rooms is lighted with four 24x24-in. six-tube fluorescent fixtures with smooth plastic covers. Two tubes in each of the fixtures are on a time switch for night illumination. Elsewhere, ceilings are 12x12-in. perforated type acoustical tile, lighted with surface mounted fluorescent fixtures and plastic eggcrate deflectors. Additional natural light is introduced with six 30x30-in. skylights.

Constructed by Korsmo Bros., the building cost $45,000 including furniture and equipment, when completed in December 1954. David M. Hopkins was the mechanical engineer and Walter S. Gordon, electrical engineer.





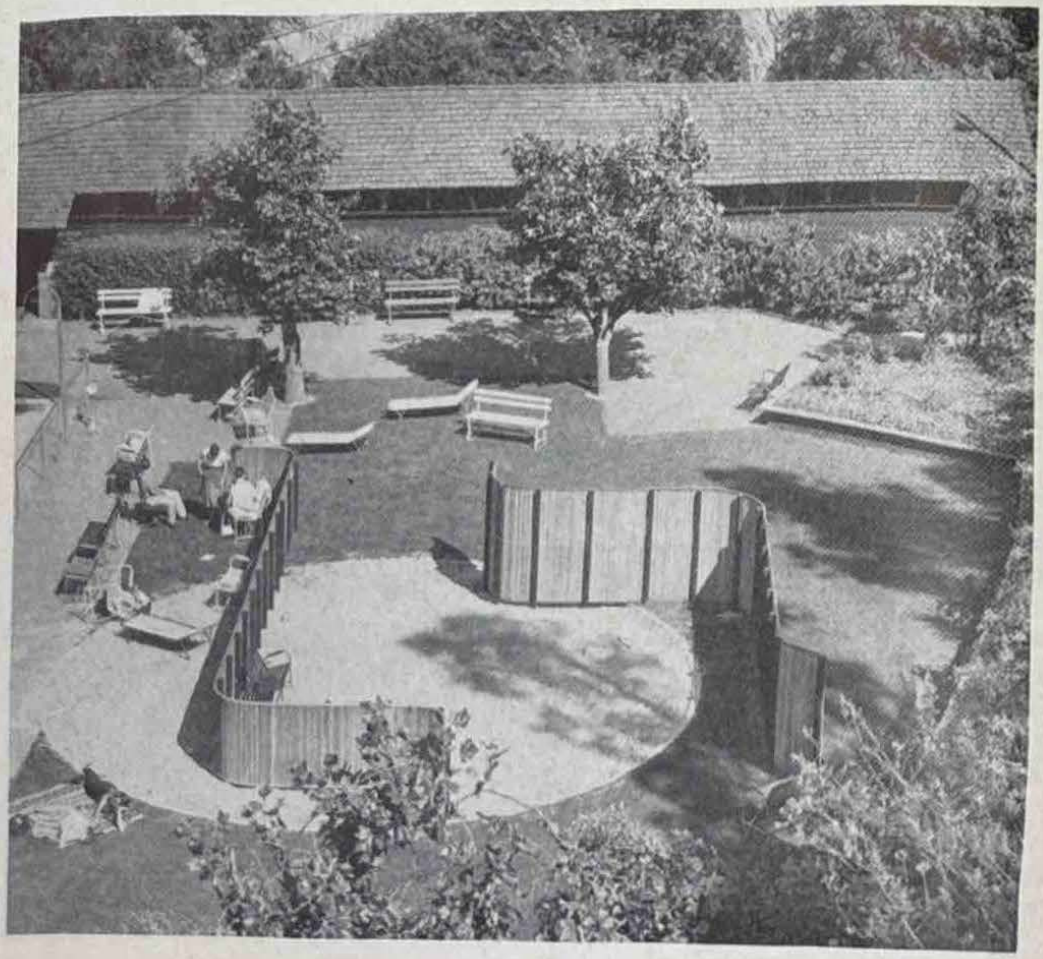
DRAFTING ROOM RUNS full length of west side. Entry floor and stairway are of slate, while walls of these areas are exposed red Normandy brick and vertical redwood boards.



SWIMMING COMPLEX includes bathhouse, adult pool with racing lanes and diving area at deep end and junior pool of shallower depths for beginners. Tot spray pool is not shown.

Phil Palmer photos

LARGE SAND PIT for sunning, adjacent to adult swimming pool, is surrounded by concrete curb and protected against wind by screens of 1x1 redwood set vertically between steel channels attached to redwood posts.



for employees:

relaxation in the sun or the shade

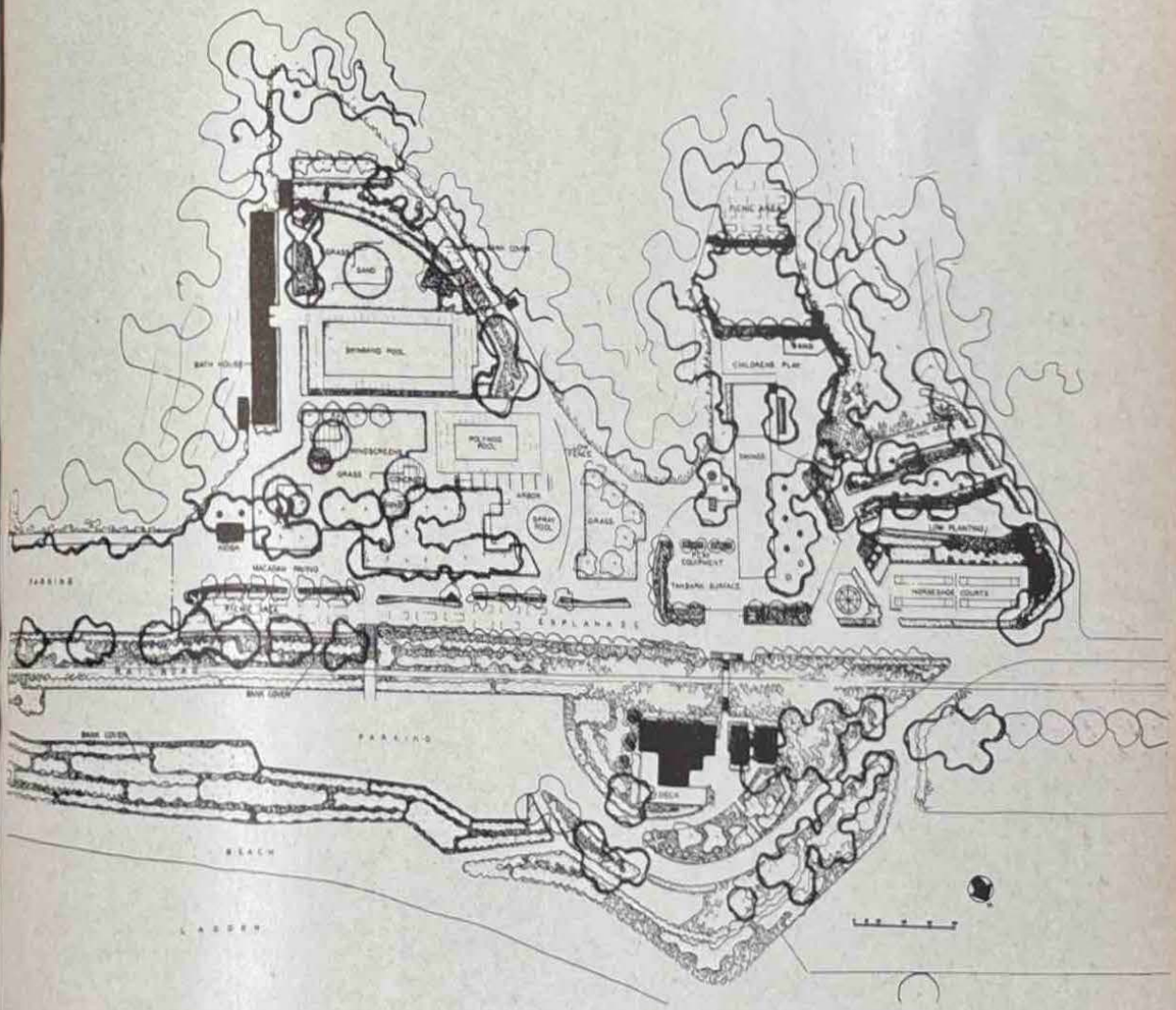
Standard Oil Co.
Rod and Gun Club Park
Richmond, California

ECKBO, ROYSTON & WILLIAMS
Landscape Architects

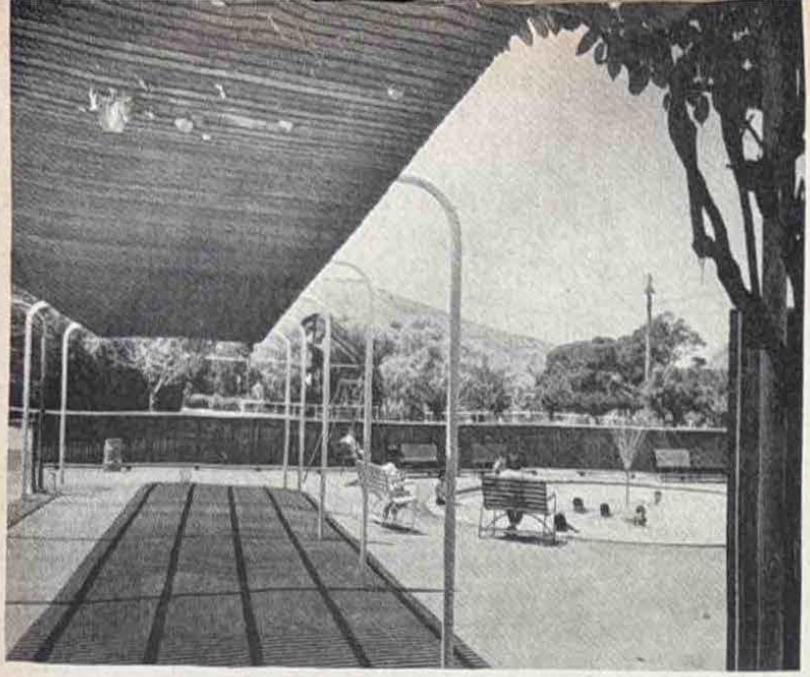
THIS HIGHLY DEVELOPED 20-acre portion of a recreation park comprising about 100 acres edges San Francisco Bay. It consists of a gymnasium, swimming complex—bathhouse and three pools—and children's play center in three adjacent valleys facing north. Picnic places are dispersed throughout at the valley heads where they can overlook the activity centers and along the esplanade which connects all areas.

Two features are especially noteworthy: 1) the wind screen and paving arrangements in the swimming center, providing a variety of sun or shade, breeze or protection, and grass, sand or concrete surfacing, achieved through the interplay of concrete and sand circles with interpenetrating fences; 2) equipment in the children's play center which is rich in form and color, producing an unusually gay atmosphere.

The project resulted through a joint labor-management effort. Plant workers donated their free time to building those parts of the facilities which they could handle, while the company provided funds for materials and special contracts best performed by outside contractors.



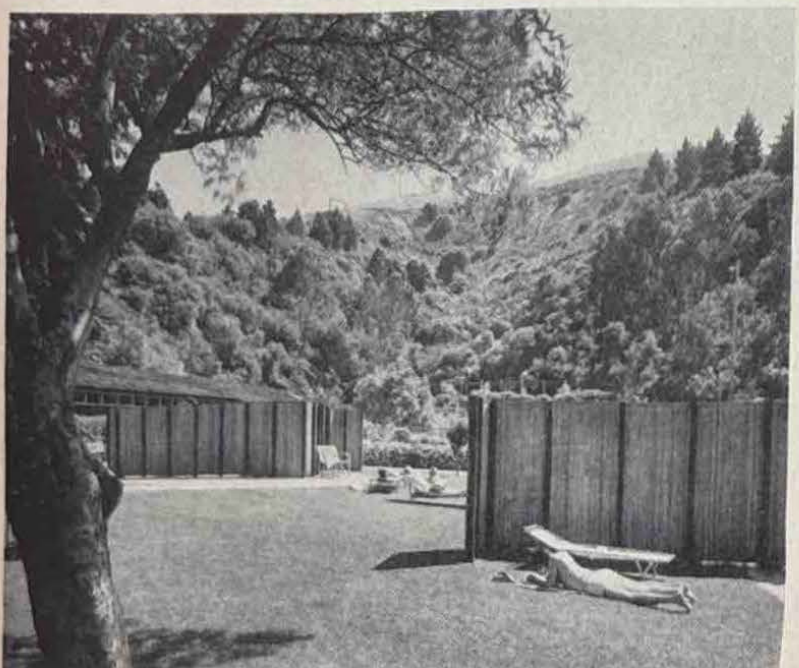
ROD AND GUN CLUB PARK



REDWOOD ARBOR supported by bent pipe U-frame separtes junior and tot spray pools.



CHILDREN'S PLAY AREA shows arrangements of different types of swings and other equipment placed in tan bark, surrounded by asphalt surfaced walkways.



VIEW toward adult swimming pool through sitting areas, each with small sandbox, protected from wind by redwood screens.

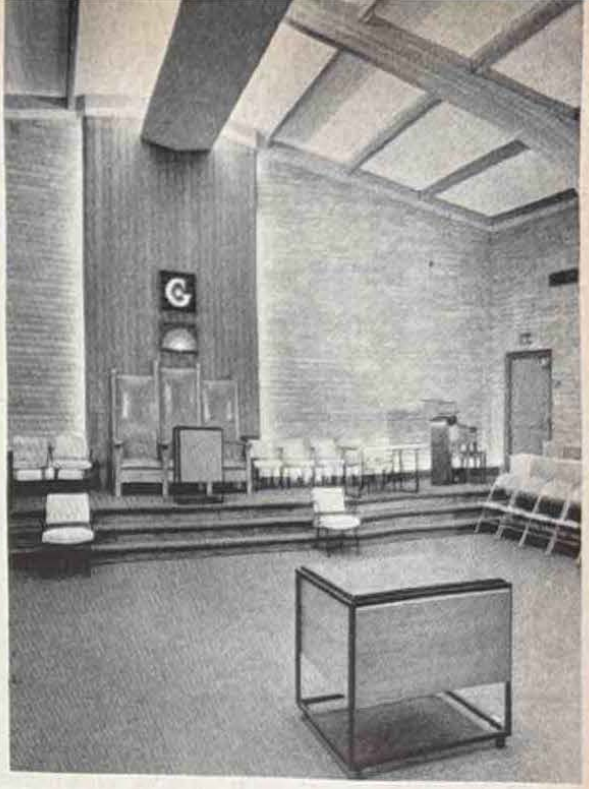
A break with tradition

Fruitvale Masonic Temple

Oakland, California

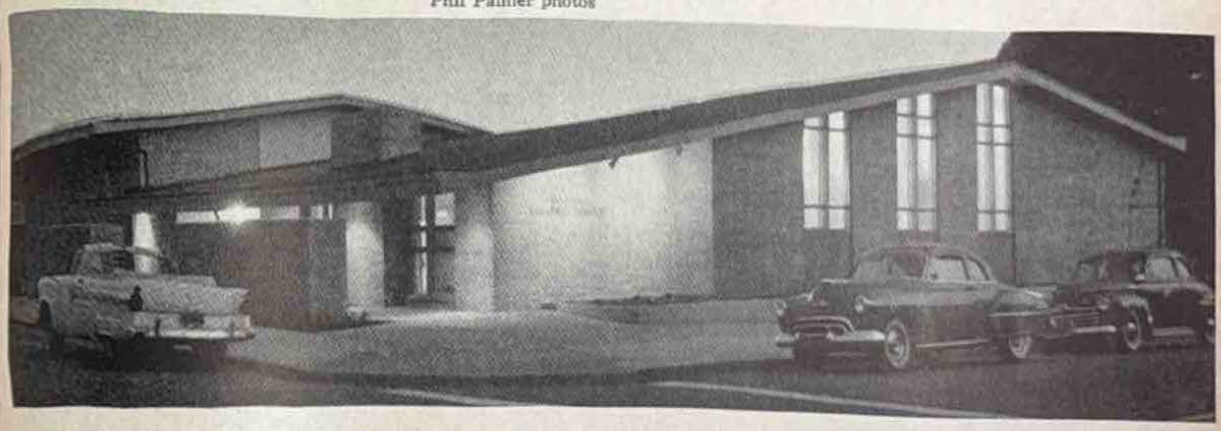
CORLETT & SPACKMAN, Architects

N. H. SJOBERG & SONS, Contractors

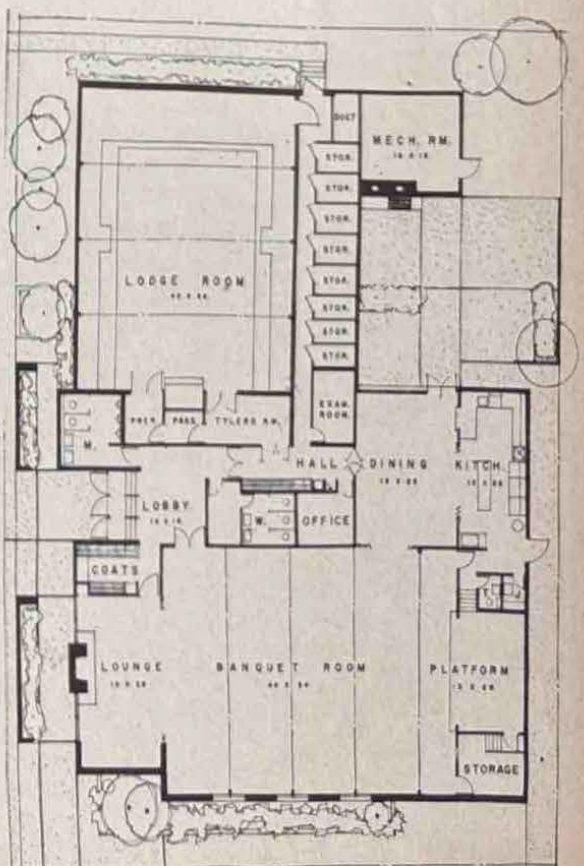


CONCRETE BLOCK EXTERIOR WALLS are laid up with aligned joints and left exposed on interior surfaces. Lodge room has custom designed altar and desk of black iron, mahogany and marble, is spanned by laminated wood arches.

Phil Palmer photos



A DEPARTURE from the customary design found in this type of building is represented in the single story L-shaped structure which includes a windowless lodge room at ground level served by storage rooms; a lounge with fireplace; a banquet room with stage; and an adjacent dining room with a completely equipped kitchen which can turn out 500 meals. The building itself forms an outdoor patio which is terraced and has a barbecue pit easily accessible to the kitchen area. Most of the materials —concrete block, laminated wood arches, columns and beams—are left exposed, inside and out. The 40x54-ft. banquet room is lighted with fiberglass lanterns custom designed by the architects.



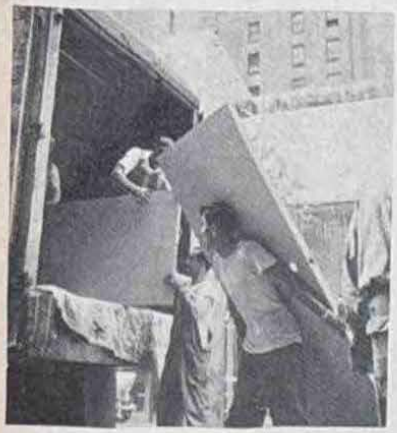
OUTLINE SPECIFICATIONS

Exterior Walls: 4x8x24-in. concrete block laid up with aligned joints, brick trim.
Roof: Built-up Haydite surfacing.
Windows: Wood-amber glass in two tones.
Doors: Flush wood.
Floor Surfacing: Birch in banquet room, carpeting in lodge room.
Interior Walls: Exposed concrete block; wood framed partitions covered with ¼-in. mahogany plywood.
Ceilings: Acoustical tile supported by laminated wood arches.
Heating: Gas fired warm air.
Total Area: 92,000 sq. ft.
Total Cost: $138,000.
Date of Completion: 1955.

In Tishman Building

Prefabricated steel walls

mark step forward in interior layout



STEEL WALL PARTITIONS arrive at jobsite prefabricated and ready for installation.

SEVERAL IMPORTANT FIRSTS are tied in with the installation of prefabricated steel walls in the new 38-story Tishman Building in New York City.

- It is the first time prospective tenants of a rented office building have been given a choice between the steel wall partition or the customary wet wall construction.
- It is the first time steel partitions have been specifically designed to replace the plaster and mortar wall.
- It is the first time that the wall panel has gone through, rather than to, the ceiling.
- It is believed to be the first time in the history of office building construction that interior walls of steel have been installed before the ceilings have been hung.

Manufacturers of the wall point out that in a new office building the initial cost of the steel partitions is higher than for wet wall construction, but cite numerous reasons why the long term costs are actually cheaper. Where an office building is being remodeled, costs are claimed to be competitive with wet wall construction.

The wall for the Tishman Building is being manufactured by E. J. Boyle Division, Aetna Steel Products Corp., in Pottsville, Pa. Three inches thick, instead of the 5 in. normally required for wet wall construction, the steel panels are constructed of 20-gauge cold-rolled stretcher level steel. Hat stiffeners on each panel are located 9 in. o.c. a part to provide desired rigidity.

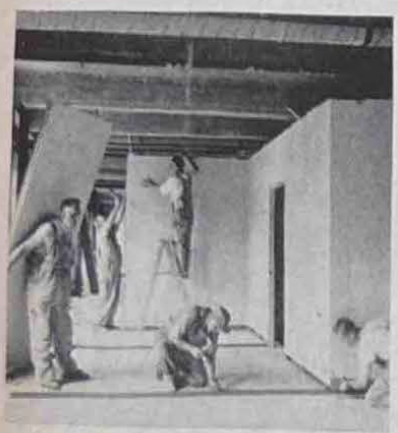
The 2-in. difference in the width between the two walls will provide an additional 16,000 sq. ft. of usable floor space in the 1,050,000-sq. ft. building.

Space between the steel panels is packed with bats of rock wool providing excellent insulation against sound and fire.

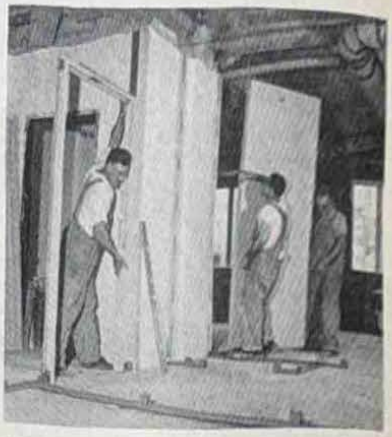
Among the obvious advantages of the steel wall is the ease with which it is both installed and removed. At the Tishman Building it is anticipated individual members of work crews will be able to install as many as 40



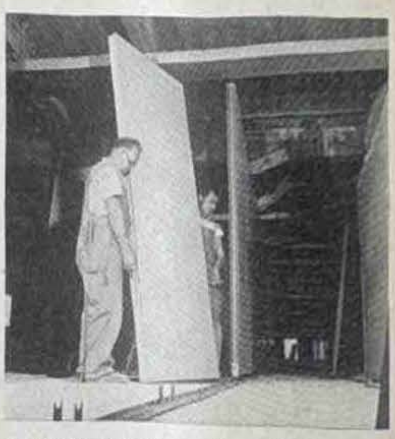
ON JOB panels can be stored in minimum of space until ready for use. Light enough to be handled by one workman, they can be erected before ceiling is up or even before building is enclosed. In foreground are sand and cement necessary for wet wall construction.



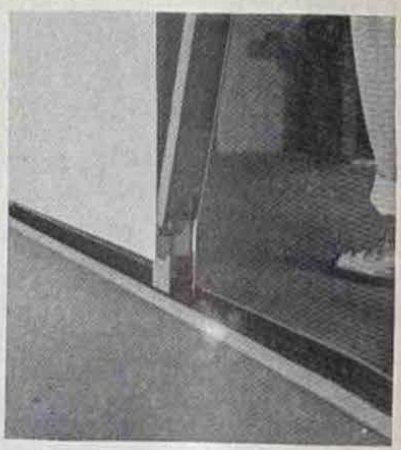
SPEED with which panels can be erected is indicated here. Workers lay floor channel, attach snap-on baseboard, bring in new section, attach linking device on panel's side, steady partition.



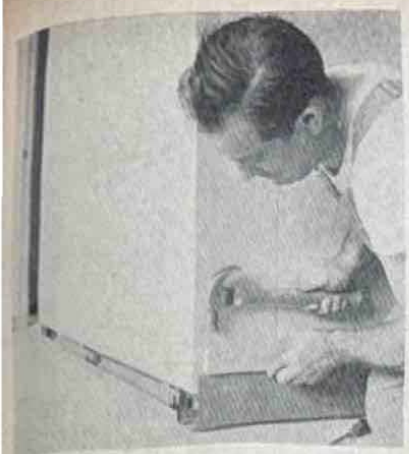
VIEW OF PANEL STRUTS attached to continuous floor channel.



WORKMEN PREPARE to slip section of panel over struts. Latter serve as both centering and keying device for steel wall panel which slips over them upon installation. Worker in foreground places one-piece prefabricated steel door frame in position.



PANEL RESTING ON STRUTS is shown as end vertical linking device is attached. Good view of unobstructed electrical wireway can be seen to left of strut.



SECTION OF SNAP-ON-BASE between bottom section of panel and floor is applied. Covering completely conceals electrical wireway.



STEEL SPLICE CAP is slipped over top of two adjacent steel wall panels giving added stability and ensuring proper alignment.



WORKMAN INSTALLS specially cut-to-size end section of panel to form perfect corner jointure. Piece is known as telescoping end filler.

lin. ft. of wall panel per day. Completely salvageable, the wall can be removed in up to a tenth the installation time for immediate relocation elsewhere.

The speed of erection at Tishman becomes important since the realty firm expects to establish the first tenants in their new surroundings this fall. Altogether, approximately 80,000 lin. ft. of wall panel requiring approximately 27,000 individual panel units in length from 6 to 48 in., in modules of 3 in., will be needed for the overall installation.

Another advantage of this new wall, which also contributes to the speed of installation, is that it can be erected under all weather conditions—rain or shine, hot or cold—and can be put up even before the building is enclosed. Adverse weather conditions have been known to delay completion of wet wall construction for many days. Further, only one union craft instead of several need be involved in the erection.

Once the prefabricated steel wall panel leaves the factory, it is ready for installation in final form except for painting, papering, or alterations for electrical outlets or air conditioning and heating pipes. Openings in the wall are easily made by a workman with a pair of electric hand-snippers.

The prefabricated form also has certain other advantages. Upon arrival at the jobsite, it can be easily and conveniently stored in a relatively small area. The large quantities of sand and cement required for wet wall construction do not have to be hauled to the upper floors, thereby tieing up elevators and preempting space which might otherwise have been put to more useful purposes.

Since the steel partitions are completely salvageable, they can be readily moved and relocated according to the needs of a new interior layout. In addition, rubble normally created when wet wall construction is torn down is eliminated., Manufacturers of the steel wall say a coat of paint lasts longer than on a wet wall and that cracks which sometimes appear in plaster are eliminated. They also claim more can be done with interior design, particularly in matching the decor of office furniture, than with the wet wall construction. For additional esthetic values, they suggest a combination of steel and glass panel, as the two combine to form an excellent and attractive panel.

To install the steel wall panel, a continuous floor channel is first fastened to the floor with 3-in. drive studs, ¼-in. in diameter. The channel is made of 16-gauge rolled steel, the same as the partition.

After the channel is laid, a panel strut, on which the wall rests and which also serves as a centering, leveling and keying device, is attached.

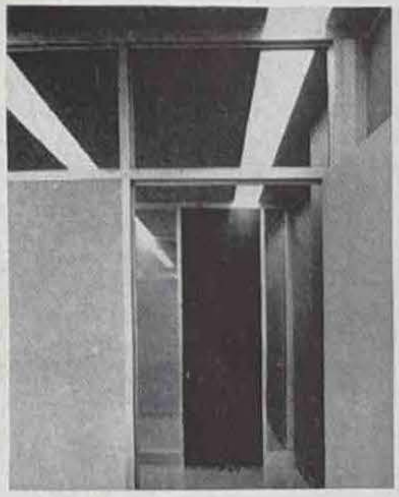
When the wall panel is in place, approximately 3 in. of open space remains between the wall and the floor channel for wiring. After wiring has been completed, a snap-on base covers the open area between the wall and the floor, completely concealing the wiring.

Once the panel has been erected, the ceiling can be installed and fastened to it by angle clips. While the wall can support the ceiling, the ceiling does not support the walls.

Because the design of this particular wall was worked out between Aetna, the manufacturer, and Tishman, the client, it has been given the trade name Aetnawall-T, the "T" for Tishman.

Tishman Realty and Construction Co. officials said they chose the steel walls because they represent "a substantial advance" in design over wet wall construction.

Los Angeles firm introduces wall system



GYPSUM PANELS PERMIT numerous decorating finishes and materials, including wood laminates, and framing makes it possible to use glass panels in variety of sizes.

A movable interior wall system, combining two Kaiser products—aluminum for the framing and gypsum for the wall panels—,is being introduced by Vaughn Movable Interior Walls, Inc., of Los Angeles.

Ten extruded aluminum shapes are used for base and ceiling closure plates, runners, jambs, mullions, fillers, partition and glazing stops. All sections have a satinlike finish.

The wall systems cost about half that of conventional types of movable walls and their design permits custom fitting on the job. Both the walls and framing sections can be easily dismantled and reinstalled.

The four-ply construction of the basic gypsum panels provides a sound reduction of 40 decibels and a one-hour fire rating.

Last of three installments

The human side of specification writing

by KENNETH M. WILSON

CLIENTS COME to architects and they come to engineers for the same reason that you or I go to our attorney or our physician, namely, to have done for them the things that they are incapable of doing for themselves. Clients want and need our wise counsel; they want our opinions; they want our frank expressions of preference if we have any. Our clients are not particularly interested in the basis of our opinions or our preferences so long as they are honest. We are highly skilled men; we try to assure our clients that we are proficient in our own field. Our client wants to accept that fact without qualifications. He is not particularly interested in whether we are theoretically unfair to one supplier or to another. He is interested in our protecting his interests and he is interested in our protecting his dollars and he pays us a fee to do just exactly that. If we fail to make the decisions that he pays us to make and if we fail to make them with firmness and authority, then on what do we justify our fee? If we put out a drawing or a specification that is not clear, that is full of indecision, that is full of what the trade calls murder clauses, if it is pointed at defending the consultant or the specification writer against charges or partiality or unfairness, then how can a client help wondering if the consultant is confident of his own ability? Our clients cannot fail to wonder if the consultant he has selected is really sure of his own honesty and his own integrity, for if he were, there would be no need for all of these paper safeguards. We must approach our work with supreme confidence in our own ability, with complete faith in our own integrity. We must reflect these characteristics in firmness and decisiveness in our specifications and in our actions. We will then make our just contribution to the goal of giving our client's a dollar's worth of value for a dollar spent.

Contractors in all fields are builders, they are not merchants. Most contractors care very little about what brand of equipment they put into a given building. They do care and they have a right to expect clean, clear, concise definition, preferably in just as few words as possible, as to what equipment is wanted, how it must be installed, where it is to be placed. They want, and they have a right to expect, that every contractor bidding on the work will furnish exactly the same equipment that they must furnish and do exactly the same quality of work that will be demanded of them. Contractors want and have a right to expect a clear enough plan and a plain enough specification to enable them to bid their work without loading their proposals with innumerable contingencies to cover situations where they must guess at the intent of the designer.

Manufacturers and suppliers want first, last and always to sell their product. Honest manufacturers and honest salesman would prefer to sell their products on the merit and the utility of their product backed by the integrity of their firm. They would much prefer to sell their products at a professional level where they can be assured that their success or failure to sell will not depend solely upon having a lower price than the other fellow. Nine out of 10 prefer to figure their price on a given project, include a fair profit and either win or lose on one quotation. Nine out of 10 abhor the idea of quoting every job with a 5 or 10 or a 15% cushion that will permit them to outdeal their competition after the contract has been signed. If we ask manufacturers to stay clear of the design profession and to refrain from competition with these professions by offering free engineering, then we must reciprocate by doing a thorough job on our drawings and specifications and by making sure that we do not misapply any product so that industry need not maintain a technical service to fill in the details and compensate for the errors of the design professions. This will permit industry to employ salesmen instead of application engineers. More important, industry representatives would not be subject to competition of inferior products which the lay customer is not qualified to evalute.

We do not deny for one minute that there is a small and a very noisy minority of contractors, manufacturers, salesmen, clients, and occasionally a few politicians, who will cry "foul ball" or "partiality" at the very slightest excuse. I am afraid these fellows are going to be with us forever, as they always have been, working on the premise that the wheel that squeaks the loudest is bound to get the most grease. Yet somehow I cannot justify penalizing the honest and the ethical segment of the construction industry simply to still the hue and the cry that is set up by this noisy minority.

Professional, marketing, trade organizations must join hands to force recognition of the design fields as genuinely professional practices and to that end encourage institutions of engineering education to offer a more realistic and usable curriculum to the student who hopes to practice his profession as a public consultant. Compensation for instructors in these institutions of engineering education must be increased to a point where active competition with practicing consultants is no longer financially attractive. More practicing consultants must contribute of their time and their knowledge by serving on examination boards and by more active participation in professional organizations.

We must make the whole public conscious of the part that is played in our entire social and economic structure by the architectural and the engineering professions. Not one layman in 50 has more than the vaguest notion of what part an architect or an engineer plays in the construction of a building other than to draw blueprints. There is a big story to be told about the studies, the thought, the planning that must be undertaken to properly plan and build even a simple building. Somehow, this message must be brought home to the rank and file of our people. Just so long as these professions will permit the general public to remain in this state of ignorance, then so long must we work in obscurity and see our efforts accepted as a legal necessity rather than as a service to human need.

Finally, I believe we must recognize that we have an ethical obligation of service to our clients and to the general public, to contractors, to manufacturers and to suppliers, and this obligation is considerably more than a set of noble platitudes which are printed, attractively framed and displayed on the wall. If we are to merit

the respect of our clients and the respect of our neighbors, we must take some risks, we must bear some criticism. If we have a conviction that a given course of action will be best for our clients, we must adhere rigidly and firmly to that course. If we, in the designing of a building, find the product of a given manufacturer fits particularly well into the overall scheme of things, then let's use it, let's name it by its right name, let's demand that we get it, not someone else's idea of an equal.

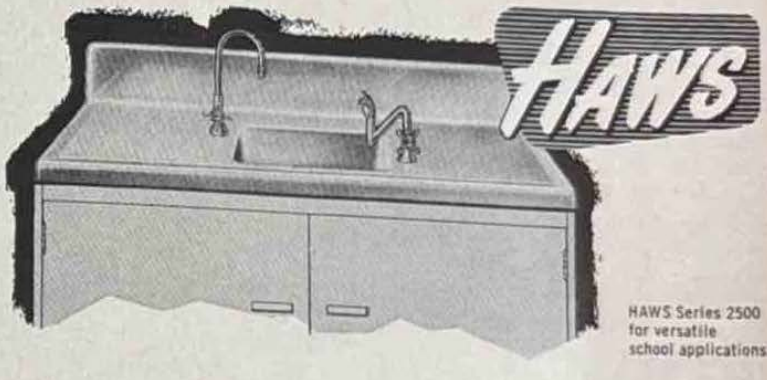
We must give to our clients the whole of our ability and the whole of our judgment and the whole of our convictions. We must practice secure in the knowledge that we are highly skilled men, that we are honest men and that we make our own decisions. For once and for all we must wipe away the stigma of being puppets, dangling on a string, that can be pulled and manipulated by any disappointed supplier, contractor, manufacturer who can scream "foul ball" or "partiality."

I firmly believe that the first small step we can take to accomplish all of these very worthwhile objectives is to clean up our specifications and rid them of their indecision, subterfuge and hypocrisy. When we turn these documents into a simple, readable, understandable supplement to clean sharp drawings, when we enforce them fairly and firmly, we will at least have made a good start in the right direction.

It is one thing to prescribe for the ills of our professions and to criticize the specifications through which they are seen; it is quite another thing to translate these prescriptions into specific action. I say this not because I have reasoned it out, as you would a problem in geometry, not because I have deduced it from a series of carefully lined up arguments, but I say this from the lessons that I have gleaned in seven very arduous years of trying to apply these principles to the practice of our own firm. From this experience I know that when you begin to assert your rightful authority, when you actually begin to take full command of your projects, that you are going to be criticized and you are going to be maligned, you are seemingly going to be hated by everyone. For a time you are going to lose some business and you are going to lose some profits. However, if you can muster the intestinal fortitude that it takes to stick by your guns for six months or for a year, you will find this criticism slowly changing into a rather grudging respect.

If you can stick by your guns for still another six months, giving your most dedicated effort, you will find that this grudging respect has changed into an open enthusiasm that is freely expressed by the most reputable and the most honest segment of the entire building industry. You will also have found that you will have driven from participation in your projects most of the dishonest and the unethical element of the construction industry. At the same time, you will find that you have won for yourself a new position of honor and a new position of dignity in the eyes of all of those whom you serve.

In closing, I want to make clear that I am not attempting to set myself up as a spokesman for either the architectural or the engineering profession or for any part of the building industry. However I have had the abvantage of viewing this situation from many angles as I have worked with tools as a tradesman, as a manufacturer's representative, as a contractor bidding and executing the work, as a draftsman and finally in my present position as an engineer and administrator. From this vantage point, I think it is time that we recognize the human side of specification writing.

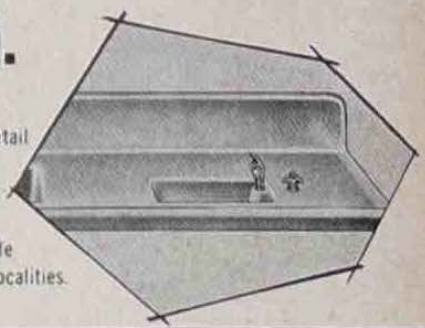


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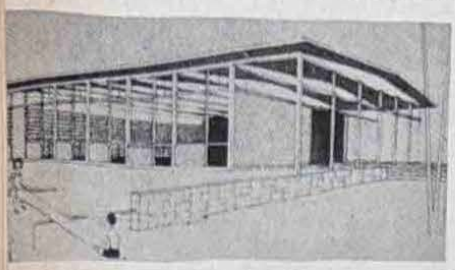
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Materials – Products – Tools

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FLAT ROOFS: A slope beam roof system, said to considerably reduce material and labor costs, is being market-



ed for schools, warehouses, supermarkets and other types of flat roof construction. The system is a custom designed, fully integrated, complete framing unit package which includes natural slope steel beams and steel purlins to be used with most types of roof deck. Economies include savings in steel costs, reduction in height of sidewalls and elimination of heavier columns and foundations. The system can be used for multiple spans, inverted positioning, overhangs and other special requirements. Slope beams are available in a variety of sizes or can be made at any length without increased cost.—The Steelcraft Manufacturing Co.

(Item No. 1)

LIGHTING SYSTEM: Almost unlimited variety of form, color and diffusing media is possible with the Lumen-Area system. Possibilities range from the conventional to the abstract, curved or straight, colored or white. The overlap-reverse interlock Polycubelouver makes crossbars unnecessary, regardless of how long the run. Adjusting for spacing and depth can be made without tools.—Electro Silv-A-King Corp.

(Item No. 2)

LIGHTWEIGHT CONCRETE: A concrete building material that rises like bread during the manufacturing process is being introduced in the United States. Already successfully used in Sweden, the material is much lighter than regular concrete, but is said to have unusually high strength and insulating properties. Durox gas concrete is manufactured of lime and cement in combination with siliceous ingredients such as flyash, sand, alum shale ash. After being pulverized and mixed with water, a fine aluminum powder is added which serves as an activating agent. The mixture then rises, expanding in the molds as much as five times its original volume. Durox can be sawed, nailed, bored or hewn with ordinary carpenter's tools. Wall and roof elements are now being manufactured as well as blocks, wall slabs, partition slabs and insulating slabs.—U. S. Durox Corporation of Colorado.

(Item No. 3)

REVERSIBLE WINDOWS: To make life easier for window washers, frames for a new office building in Chicago are completely reversible so that they can be cleaned from the inside. A vertical double-pivot permits full-circle rotation of the stainless steel frame. Windows are being installed in the new Morton Salt Co. building designed by Graham, Anderson, Probst & Whit.—Truscon Division, Republic Steel Corp.

(Item No. 4)

WATER CLOSET: Here is a new style of Eljer plumbing fixture recommended for installation in public places where traffic is heavy. Designed primarily as a women's urinal, the Toilette can serve as a urinal and water closet for both men's and women's toilet rooms where physical contact with the fixture is undesirable. It is made of vitreous china and has syphonic, reverse trap action.—Eljer Co.

(Item No. 5)



WIRING SYSTEM: To meet the housewife's desire to rearrange her furniture, a wiring system has been developed which includes outlets all around the room, plus provisions for additional circuits for any new appliances that may be invented. Called Baseduct, it is a complete system installed at baseboard level and replacing the standard baseboard. Circuits can be added by simply removing the cover.—National Electric Products Corp.

(Item No. 6)

INSULATING BOARD: For farm and industrial buildings, Johns-Manville has developed a ½-in. insulation board sheathing that can be used without corner bracing and can be handled easily by one man on the job. Called Strongbord, it is made of pine and other wood fibers bonded together with bituminous compounds. Asbestos or wood shingles can be attached directly to it.—Johns-Manville.

(Item No. 7)

NON-SLIP TILES: Manufacturer of Norton Alundum non-slip stair and floor tiles has been resumed after a two-year absence from the market. The tiles are made of Alundum abrasive grain, bonding materials and pores and are designed to make stair nosings and other vital walkway and ramp areas permanently slipproof and resistant to foot traffic. If any of the surface grain should wear off, new sharp grains beneath would be exposed, retaining the non-slip feature practically indefinitely. The tile is available in brown and gray.—Norton Co.

(Item No. 8)

FOLDING PARTITION: To improve its appearance and sound transmission loss, the Haws electric-hydraulic folding partition has an automatic trim cornice closure as an optional feature. The space at the folding end of the ceiling track, which heretofore has been open to permit folding of the panels and has left the track and mechanism exposed, now is covered when the wall is extended. As the partition is forced hydraulically to the floor to form a tight seal, the mechanism then folds down a cornice section to present passage of light and sound.—Robert Haws Co.

(Item No. 9)

Latest Handbooks, Manuals and Literature

Yours for the Asking

STAINLESS STEEL: "Products of Stainless Steel for Architects and Builders," a 44-page reference manual, is illustrated with photographs, detail drawings, profiles and exploded views. The booklet describes components for store fronts, windows and doors, hardware, exterior walls, escalator parts, swimming pool appointments, signs, trim, kitchen equipment for homes as well as commercial and industrial feeding installations. Another helpful feature is a 3½-page listing of stainless steel component manufacturers, grouped by component type.—American Iron and Steel Institute.

(Item No. 10)

EXTERIOR PAINTS: Fourth in a series published annually by Rohm & Haas, "Progress Report Four" gives detailed summaries and tables covering the chemical firm's findings in an extensive every-climate test program on acrylic emulsion paints. The 70 pages describe results obtained to date from 3,000 test exposures in Florida, Pennsylvania and Arizona begun in 1952-53, as well as data from a variety of laboratory controlled test buildings and from a systematic study covering a large number of commercial paint applications throughout the nation and Canada.—Rohm & Haas Co.

(Item No. 11)

CLUBHOUSE DESIGN: How an architect met his client's special needs for a golf clubhouse design by integrating five steel building units with other materials is described in Armco's eight-page bulletin. Details are given and interior and exterior photos, some in color, show how the problem was solved.—Armco Drainage and Metal Products, Inc.

(Item No. 12)

MOVING SIDEWALKS: The growing popularity of moving sidewalks has prompted Stephens-Adamson to prepare a handbook on the subject offering both technical information and pictures of actual installations. First section goes into types of belt support, balustrades, installation data. Full pages are devoted to descriptions of conveyors in a savings and loan association building, at Chicago's Wrigley Field and Museum of Science and Industry, a Goodyear plant and a number of others. Information is assembled in a handy three-ring binder. —Stephens-Adamson Manufacturing Co.

(Item No. 13)

HARD MAPLE FLOORS: Factors influencing stability and general serviceability of hard maple floors are presented in a research paper that includes a discussion of the expansion problem and the best installation methods. Emphasis is placed on the importance of proper nailing.—Maple Flooring Manufacturers Association.

(Item No. 14)

USES OF REDWOOD: Strikingly beautiful color photographs are used in an eight-page brochure to depict



some of the design possibilities of California redwood. A number of intriguing ideas are presented for both interiors and exteriors. — Simpson Timber Co.

(Item No. 15)

THERMAL INSULATION: Architects, builders and school building officials interested in getting the most school facilities for the least money will find much helpful information in a 56-page publication called "School Building Costs." The brochure is a condensed version of a study of performance and economic values of thermal insulation in roofs and walls of modern school buildings, made by Wayne Farland Koppes, research architect, and John Hancock Callender, AIA. Included are 14 graphs detailing cost and comfort comparisons, 28 sketches, tables and a heating and cooling cost chart.—Owens-Corning Fiberglas Corp.

(Item No. 16)

CLIMATE DATA: Design guide gives temperature conditions for heating and air conditioning in southern California, Nevada and Arizona. The data, assembled by the Southern California Chapter of the American Society of Heating and Air Conditioning Engineers, deals with problems in 440 different localities in California. Directing work on the publication was William A. Holladay of the Holladay & Westcott consulting engineer firm.—American Society of Heating and Air Conditioning Engineers.

(Item No. 17)

REMODELING IDEAS: Although it is designed primarily for consumers, architects and builders will find some practical suggestions in a 16-page booklet called "77 Ideas for Remodeling Your Home with Fir Plywood." There are tips on exterior facelifting, adding rooms or wings, fences and patios, basements, kitchens, living rooms, bedrooms, attics, closets and hobby centers.—Douglas Fir Plywood Association.

(Item No. 18)

FOUNDATION TESTING: The importance of subsoil investigation for all types of buildings is stressed in a 12-page brochure prepared primarily to describe the Gow method in which drive samples are secured. Text details reasons for foundation investigations, gives a comprehensive description of the procedure for making exploratory borings and discusses two types of samples. Also included is a check list on the necessary information in a boring report.—Raymond Concrete Pile Co.

(Item No. 19)

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

DECEMBER 1957

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NEW OFFICES: Gene G. Westberg, architect, has opened his own office at 1962 N.W. Kearney St., Portland, in the quarters formerly occupied by Gordon Kee Cochran. Westberg was formerly in the office of Richard Marlitt and previously with Herman Brookman. Cochran is now in the office of Law & Wilson, architects-engineers, in Honolulu. Another Portland architect, Mary Alice Hutchins, had previously joined the island firm.

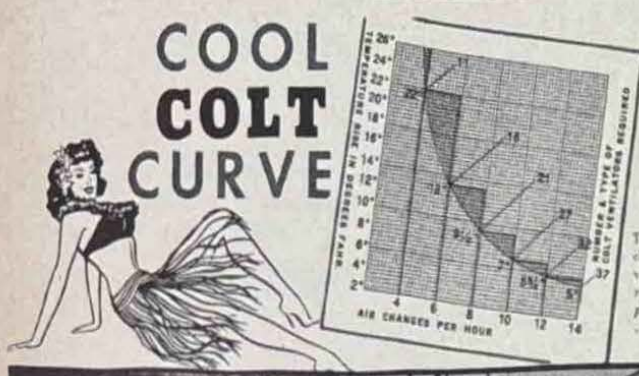
✓ Ray Densmore, who has been employed by the architectural firms of William Glenn Balch and Welton Becket & Associates, has opened his own office at 140 N. Robertson Blvd., Pasadena.

✓ Stockton architect Dana D. Corrough has established a branch office in the Building Service Center in San Andreas, Calif.

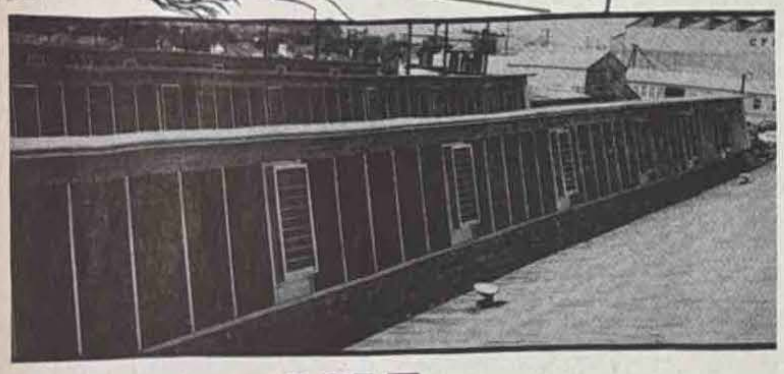
REYNOLDS AWARD

Nominations for the 1958 R. S. Reynolds Memorial Award—the $25,000 honorary payment to the architect making the "most significant contribution to the use of aluminum" in the building field—have been extended until January 15. To be considered for the prize, architects in this country must be nominated by an AIA chapter or any college or university.

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DESIGN GROUP: The Architect Artist Group, a seven-man team composed of members of the related design professions, has been formed in Seattle, with offices at 200 E. Boston (FRanklin 3322). Three architect principals — Wendell Lovett, AIA, Daniel Streissguth and Gene Zema, AIA,—have been joined by landscape architect Robert Chittock, painter Spencer Mosely, sculptor Charles Smith and structural engineer Gerard Torrence.

ON THE MOVE: Harmon, Pray & Detrich, architects-engineers, to 2000 Fifth Avenue Building, Seattle (ELliot 1678).

✓ Adrian Wilson & Associates, architects-engineers, to 816 W. Fifth St., Los Angeles.

✓ Gordon W. Bradley, AIA, and Stanley F. S. Wong, design associate, to 1220 Waimanu St., Honolulu.

DIED: Two northern California architects died November 29 as the result of injuries sustained in separate automobile accidents: Raymond L. Blackwell, 51, of Berkeley and William Edward Schirmer, 66, of Oakland. Blackwell was associated with Schmidts, Hardman & Wong, for whom he designed schools in several communities; Schirmer, whose wife also was killed, was one of the architects of Oakland's City Hall and had designed a number of parochial structures in the Bay area.

✓ Retired Los Angeles architect Frank Reymann, 72, died of a heart attack November 19 in San Jose, where he had lived the last five years. His speciality was designing ornamental ironwork.

RESIGNS: Donald Beach Kirby, FAIA, has resigned from the San Francisco City Planning Commission after having served for almost two years.

PA&B Suppliers

• **Tecler Aluminum Corp.** of Seattle has named F. L. (Mac) McIntyre as head of engineering and assistant to president Ernest J. Gottula. For the past seven years McIntyre was with Soule Steel Co., serving in its Los Angeles and Portland offices and later in Seattle where he organized that firm's engineering department.

• **Tamco Corp.** of San Rafael, Calif., has named two regional sales managers—Robert W. Ray and J. V. Dean. Ray, with headquarters in Petaluma, Calif., will manage the northwestern Rocky Mountain area, excluding Colorada; Dean, based in Los Angeles, will cover southern California, Arizona and New Mexico.

• **Reynolds Aluminum Sales Co.** has named W. O. (Bill) Yates to the post of vice president and general manager of the western sales region with headquarters in Los Angeles.

• **W. P. Fuller & Co.** has appointed the following four new branch managers: Fred J. Kullenberg at Spokane, Henry B. King at Fresno, Calif., L. K. Stewart at Salt Lake City; and H. Glenn Anderson at Idaho Falls, Idaho.

• **Sunbeam Lighting Co.** of Los Angeles has appointed Henry Gluck as vice president in charge of sales.

• **West Coast Plywood Co.** of Aberdeen, Wash., lost its sales promotion manager when John H. Leik, 44, died of a heart ailment November 23 at his home in Seattle following a long illness. Before joining West Coast Plywood in 1947, he was with the Douglas Fir Plywood Association in advertising and publicity work.

• **Red Cedar Shingle Bureau** re-elected president R. D. (Don) Mackie of Aberdeen, Wash., at its 41st meeting in Seattle December 6. Also reelected were vice president N. A. English of Vancouver, B.C., and secretary-manager Virgil G. Peterson of Seattle.

English, who doubles as chairman of the public relations committee, in summarizing the bureau's 1957 activity in that field, commented that an increased number of states have dropped their fire insurance penalties against wood shingles.

• **Utility Appliance Corp.** of Los Angales will market and advertise all of its products—gas ranges, water heaters and heating and air conditioning and ventilating equipment—under the single name of Gaffers & Sattler effective January 1, 1958.

• **Simpson Logging Co.** is undertaking a $100,000 conversion of facilities to production of overlaid plywood at its Olympic plant in Shelton, Wash.

Annual builder conclave set for January

Registration of upwards to 30,000 is expected when the NAHB holds its 14th annual convention and exposition in Chicago January 19-23. All available exhibit space in three centers—the Conrad Hilton and Sherman hotels and the Chicago Coliseum—has been assigned.

Among the speakers scheduled to address the five-day meeting are Bob Whitney, former president of the National Sales Executives Club; Gordon W. McKinley, director of economics, Prudential Insurance Co.; Edwin B. George, director of economics, Dun & Bradstreet; and Vance Packard, author of the best seller "Hidden Persuaders."

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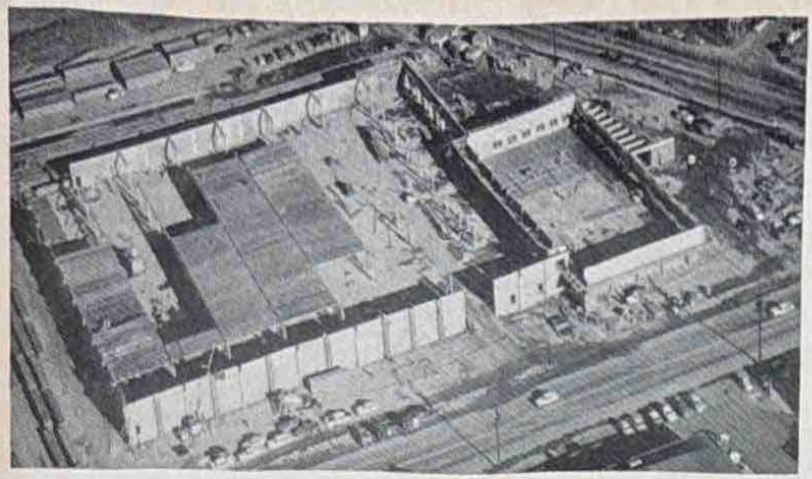
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PARTIAL ERECTION OF PRECAST CONCRETE ROOF PANELS is shown in progress photo of General Electric Co. lamp division offices and warehouse in Los Angeles. Project was completed last year.

Standardized precast concrete components urged

Increased standardization of prestressed concrete components was recommended as a means of cutting construction costs by Noyes Roach, president of Noyes Roach Co. of Los Angeles, talking at the recent California Structural Engineers Association convention at Coronado.

In joint venture with C. L. Peck, the general contracting firm set a precedent last year by completing the first commercial building in the United States to utilize roof panels and girders which were precast and tensioned on the building site in special beds built by the contractor. The 120,000-sq. ft. structure — General Electric Co. lamp division offices and warehouse—included 496 double tee section roof panels and 84 girders. Panel dimensions are 40 ft. by 5 ft.; the girders are 18 in. by 16 in. by 26 ft.

Roach revealed that the decision to fabricate casting beds on the site was made only after careful cost analysis. "The price quoted by the only Los Angeles manufacturer of prestressed concrete was high," he said. "Lower quotes by out-of-town plants were nullified by trucking costs."

Pointing out that on-site installation of casting beds is expensive, costing about $15,000 for the GE job, Roach predicted many benefits for southern California construction when prestressed concrete manufacturers can develop a truly economical plant operation. "For instance, our cost of $1.90 per square foot for the GE roof might easily have been reduced to $1.70 if the sections had been furnished by an efficient, standardized plant. We would not have had the expense of special casting beds and costly on-site handling operations could have been avoided."

Development of economical plant operation depends on cooperation among architects, structural designers and prestressed concrete manufacturers, according to Roach. "Obviously," he said, "standard widths should be established by designers so that casting beds do not have to be especially fabricated for each job. We found the 5-ft. width quite practical for the 40-ft. GE spans. Our experience with that job indicates also that considerable field labor can be saved and the possibility of errors minimized when components are standardized, permitting placement without regard to a unique, specified position."

Since the advantage of standardization does not exist when pipes, conduits and fixtures are precast into the concrete section, Roach urged that engineers study the feasibility of attachment by means of drivet guns or other methods of exterior application.

Albert C. Martin & Associates were architects for the project; T. Y. Lin was engineering consultant on fabrication and operation of the prestressed concrete casting beds.

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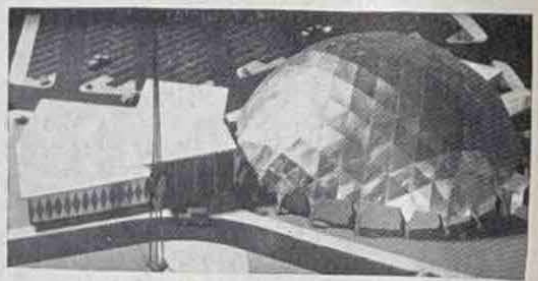
Franchises to fabricate and erect stressed skin aluminum dome buildings are being awarded by Kaiser Aluminum & Chemical Sales, Inc.

Based on geodesic principles, the buildings involve the creation of spherical structures through the use of aluminum panels and struts. This combination of skin and framing eliminates the need for pillars or other interior supports.

The world's first dome building was completed in January at the Hawaiian Village Hotel in Honolulu. It is a public auditorium seating 2,000 persons.

A 145-ft. aluminum dome factory building was erected in 22 working hours by a 38-man crew in Abilene, Kan., last month with a unique construction method using two balloons as a supporting scaffolding and elevating device. The balloons raised the dome five stories high onto piers 3 to 6-ft. off the ground which form the anchoring foundation of the building.

The method made it possible to fasten the aluminum panels, which compose the dome's shell, together over the balloons and then raise them to successively higher elevations as other panels increased the diameter of the structure.



FOCAL POINT of civic center built in Virginia Beach, Va., is stressed skin aluminum dome auditorium, first such structure to be erected in U.S. Dome is exact replica of auditorium built at Hawaiian Village Hotel in Honolulu. Design shown in model was prepared by Norfolk architects Oliver & Smith.

Design through structure (Cont'd from p .10)

our new materials (reinforced concrete) to create a space enclosure of somewhat new expression. Very good, yet the question should be asked: does the form fit properly in the total balance of the building? Is a cross barrel roof set on top of a two-story building,its points of support resting on the very corners of a delicate-looking structure, a properly expressed form of the structural equilibrium of a classical arched roof?

Conversely, in the case of Nervi's Exhibition Hall in Turin, should we not regret the lack of sensitive communication between architect and engineer that has resulted in a most imaginative and satisfying roof enclosure for an otherwise conventional and uninspired building?

A second design criterion is purpose. Is the selection of a structural form consistent with the use and purpose to which the building is to be dedicated? Undoubtedly, the answer will be positive when a thin shell vaulted cantilever is used (such as the stadium at Bogota) to shelter the spectators where uncluttered visibility is a prerequisite.

Is the answer still positive if we question the choice of a thin shell roof for the MIT Auditorium building which, by the very nature of its purpose, must be totally enclosed and secluded from the outside; in which the acoustical requirements deny the expression of the structure from within; and in which the levity and gracefulness of the form selected was visible and evident only for the short period between the removal of the formwork and completion of the enclosure of the building? I consider a critique of this building in this direction far more important than criticism of its difficulties of structural behavior, which must be attributed to the daring of concept and which should be accepted as part of growth through experimental knowledge.

The third element of critique is scale. While we certainly can develop interesting and clever forms for the enclosure of any space, shouldn't we respond to a sense of propriety suggesting that, for the covering of relatively short spans, the effort in development of new forms is occasionally wasted and meaningless? The hyperbolic paraboloid, delicately balanced on its two points of support, holds a superb design potential for the covering of a large uncluttered space, such as a hangar or a major open shelter; but does it make as much sense when used by Catalano in his house to shelter a plan of otherwise relatively conventional nature, which impairs the viewing of the fully expressed form by partitionings and separations, and in which the varied and slight slopes of the ceilings in each room fail to express the basic concept that prompted the design?

The fourth criterion, and perhaps the most difficult to define, is the one of design consistency. When forms derived from structure are adopted, the problem of relating them to each other, to the various elements of a building and to the surroundings of the building itself remains to be solved in terms of total architectural consistency, for the lack of which no amount of imaginative or technical brilliance can provide absolution.

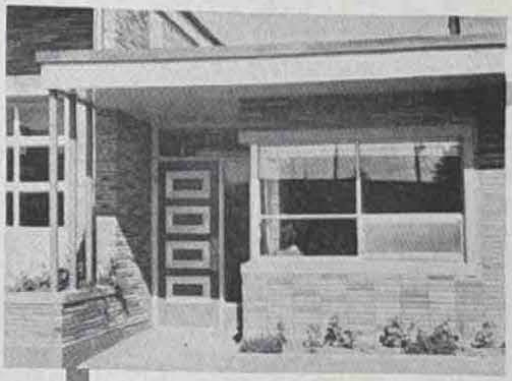
I saw recently the design of two projects of our friend, Candela: one, a fantastic, sensitive combination of barrel vaults for a proposed large church project; the other, an industriel complex consisting of warehousing, office buildings, lofts, where an encyclopedic vocabulary of structural forms has been used, possibly with absolutely valid economic or structural justification. In the first case, I think the question of consistency would receive an enthusiastically positive answer; while in the second, architectural consistency seems to me to have remained unsatisfied.

I trust these remarks are understood not as critique of individual projects or of individual architects or engineers. They are rather meant as a critique of us all—a critique, in a sense, of our lack of expressed critical response.

I believe that if we attune ourselves to a more sensitive understanding of the more subtle relationship between structure and form, if we conceive of design with structure rather than through structure, if we work together rather than borrowing from each other, we might evolve toward a relationship between structure and form that will have a far greater significance to the forthcoming architecture of our country than the occasional exhuberant adoption of a barrel vault, a folded hip roof, or a daring prestressed cantilever.

I believe that it is important that we develop this more mature critical sensitivity and that we do so soon enough, because it is very likely that a major mutation in the forms of American architecture will occur in the near future.

The character of contemporary architecture, as it has become established over the last quarter of a cen-



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tury, does not, I believe, present an indigenous reflection of the country's standards of life and emotional tastes. As a style, in its emphasis on simplicity and sobriety, it is far more consistent with the standard of living and the limitations of modern Europe (in which changes and new elements of progress are developed in response to scarcity of materials and high costs of processing) than it is to our habits of plenty and our economy of induced obsolescence.

Our tendencies, our tastes, our habits all tend toward expressions of greater dimensional and imaginative potentials than contemporary architecture in America seems so far to have explored. In other fields, the tremendous difference of attitudes, tastes and standards is clearly reflected: compare the American automobile of the American household with its European counterpart!

If the contemporary architectural movement has eventually gained acceptance, it is mainly as a "style," almost as a fashion, and very much because of its inherent characteristics of economy, which have been keenly appreciated by the developers and have not been balanced by an expressed public demand for higher quality of environment. Yet we are now reaching a point where the demand for richer and more imaginative architectural environment is going to be felt. Already, with the creation of the new suburban centers, the taste for new nuclei of greater civic meaning is established; and the forces of competitive enterprise may well be coaxed into sponsoring such richer urban environments. At the same time, in the coming tasks of urban renewal, where large areas of our old cities are going to be razed and rebuilt, a tremendous potential for grandiose planning will be opened, and it is probable that a newly expressed assertion of civic pride might sponsor new forms for our city's cores.

Toward the birth of a demand for richer environment, the architect should be an eager coaxer, a competent midwife, as well as a very prudent guide. These forces, if properly guided, may soon bring about a magnificent age of American baroque, with all of the characteristics of imagination, grandiosity and visual delight that characterized its classical predecessor, yet expanded to the benefit of all of the people. If, on the other hand, these forces are not properly guided, we may, in striving for the expensive and the plentiful, entirely bypass the baroque and plunge straight into an eclectic modern-day rococco—a molasses-like quagmire of environmental banana splits. The evidence offered us by the automobile design and by the jukebox styling should stand as fair warning of the danger ahead.

The choice of direction that we, as a culture, may eventually take, to a great degree will be affected by the influence that the creators of design and the critics of design will themselves develop and be instrumental in transmitting to the people as a whole through available and new educational channels. In this sense, it is then important that the more mature sensitivity that I mentioned before be rapidly acquired, lest we be forever attracted by the new and the glamorous rather than by the maturely creative, and so that we might be instrumental in steering the future of our environment away from an air-conditioned nightmare of fintails, jukeboxes and tricky structures, into a new architecture capable of extending the benefits of our physical wealth into its emotional and cultural counterparts.

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NEWS (Cont'd from p. 8)

Sert talks about cities on Berkeley campus

A "certain human element" is missing from American cities, in the opinion of architect Jose Luis Sert, an authority on city planning and dean of Harvard's Graduate School of Design.

Sert delivered the second Bernard Maybeck Lecture at the University of California Berkeley campus and declared that "we have added all sorts of good things to our cities, such as high buildings, low buildings, elevators, cars and highways—and they mix badly with man; he is the victim."

"I'm glad to see a growing interest among younger architects," Sert declared, "in making cities more agreeable places in which to live. Pleasure, after all, is a part of life and when we give man a better city, he is happier."

Sert, who came to the U. S. from Barcelona during the Spanish Civil War, asserted he is particularly concerned with furthering a close relationship between the visual arts and architecture.

The first speaker in the Maybeck Lecture series was Frank Lloyd Wright and Lewis Mumford will give the third early next year. The lectures are being presented by the College of Agriculture, the department of landscape architecture, the department of city and regional planning and univeristy extension in cooperation with the East Bay and Northern California chapters of AIA and the American Association of Planners.

Industrial designers hear two architects

Two architects shared the speaker's platform when members of the American Society of Industrial Designers held their first national meeting on the West Coast at Ojai Valley Inn, Ojai, Calif.

During the four-day convention Dean Arthur Gallion of the University of Southern California School of Architecture moderated a design education panel, while Charles Luckman of Los Angeles gave a dinner address.

"I sense a new Victorianism is upon us," Dean Gallion declared, "and seeing some new car models makes me feel education is more important than ever—if only to teach common sense. This is an economic world, but isn't it time to make a cultural world as well?"

Luckman told his audience that "this group represents every living and labor device of the world" and that there is "no closer relation between management and labor than the field of talent you use."

Pacific Architect and Builder

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Construction News Bulletin

Vol. 63—No. 27 (PA&B) News Section of Pacific Architect and Builder December 21, 1957

Dorothy McCormick.....News Editor Win Romtvedt.....Portland News Manager
Sandra Phillips.....News Staff 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

●POST OFFICE REPAIRS— Baker, Ore.

Bids will be opened 3 p. m., December 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for improvement and repairs to the U. S. Post Office, Dewey and Auburn avenues, Baker; Proj. No. SEA-828. Specifications with above office. SP 12-18

▲PARK UTILITY BUILDING— Beaverton, Ore.

Bids received by Tualatin Hills Park and Recreation District, Leonard S. Uppinghouse, president, 425 S.W. 3rd St., Beaverton, for park utility building on the Hall Street Park in Beaverton. Plans by Herb W. Lofstrom, designer, Valley News Bldg., Beaverton. LOW BIDS: Doerrie Construction Co., 301 N.W. Murray Road, Portland, $7,671; Enger Bros., 307 N.W. Canyon Road, Beaverton, $8,757; E. Lee Robinson, 1650 S.W. Oak St., Beaverton, $8,937. Bids opened December 10. Bids exceed funds, but it is expected that contract will be negotiated with low bidder. WB 12-13. Previous report 11-19

▲HOUSING UNITS, SITE DEVELOPMENT— Burns, Ore.

Thirteen firms submitted bids on either or both the air force personnel housing projects at Burns, Ore., and Cottonwood, Idaho. Bids were opened December 9 by procurement office of the 84th Fighter Group, Geiger Field, Spokane. The bidder-design offers were sent to air force headquarters in Omaha, Neb., for evaluation. The figures given below are apparent amounts for Burns, Ore.

Burns, Ore.—Project involves 25 housing units. Bids were on (1) one four-bedroom house for officer, (2) five three-bedroom dwellings for officers, (3) 19 three-bedroom houses for airmen, (4) utilities and site improvements.

Following are two apparent low bidders on the Burns, Ore., project: Allied Construction Co., Box 124, Parkwater Station, Spokane, Wash., $11,465 (unit price on four-bedroom officer's residence), $10,170 (unit price on three-bedroom officer's residence), $9,170 (unit price on three-bedroom airman's residence), $75,401 (utilities and site improvements), $330,286 (total bid on Burns project); Troy B. Hood, Inc., Opportunity, Wash., $13,980, $13,490, $11,460, $146,000, $470,120.

Other Burns bidders with unit figures on items 1, 2, 3 and 4: Harney Homes, Inc., Burns, Ore., $14,300, $14,300; White Bros. Co. and Earl L. Kelly, Walla Walla, Wash., $15,297, $13,403, $11,500, $80,315; Thompson & Georgeson, Inc., Portland, $14,613, $12,827, $11,500, $135,709; Frank Dunham Co. and A. C. Grant Construction Co., Kennewick, Wash., $15,500, $13,200, $11,400, $79,613; Brezina Construction Co., Rapid City, S. Dak., and Max Boesiger, Mountain Home, Idaho, $15,500, $13,500, $11,500, $92,300; Texaco Contractors, Inc., Dallas, Tex., $15,500, $13,500, $11,500, $138,531; Beacon Construction Co., Boston, Mass., $15,500, $13,500, $11,500, $189,500; Fred J. Earley Co., San Francisco, Calif., $15,500, $13,500, $11,500, $257,000.

DC 12-14. Previous report 11-12

▲BATTERY SHOP— Clackamas, Ore.

Nine bids received by National Guard Bureau, Salem, for construction of a battery shop at Camp Withycombe near Clackamas. Bids opened December 11. LOW BIDS: Walker & Green, Route 3, Box 207, Oregon City, $8,438; Gene Settergren, 2632 S.E. Salmon, Portland, $8,454; Wilson & Dean, 31016 N.E. 61st Ave., Portland, $8,848.

SC 12-14

SCHOOL ADDITIONS— Clackamas, Ore.

Plans announced by Clackamas County School District No. 64C, Clackamas, for construction of five new classrooms, purchase of a larger school bus and completion of two rooms now under construction in the present addition at Clackamas. Also included in the improvement program is a larger covered play area. The work is scheduled as a result of a $101,700 bond issue which was approved December 3. SC 12-18

WOMEN'S DORMITORY & CAFETERIA— Corvallis, Ore.

(Estimated cost $1,800,000)

Preliminary plans approved by Oregon State Board of Higher Education, Earl M. Pallett, secretary, Johnson Hall, Eugene, for a dormitory-cafeteria building to house 366 women at Oregon State College. Plans by Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. The dormitory will be located directly east of Waldo Hall and south of Jefferson St., and the 300 women who live in Waldo Hall will also use the cafeteria. The roof of the dining hall will have a landscaped play area. Reinforced concrete construction (lift slab); masonry exterior walls with brick veneer and metal panels. WB 12-17

▲TRAINING CENTER— Corvallis, Ore.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a reinforced concrete 11,600 sq. ft. Army Reserve training center at Corvallis; ENG-45-108-58-34. Bids opened December 17.

Concrete slab on grade; five-ply built-up roofing and metal decking supported on open web steel joists in main section, and by glued laminated beams and steel joists in assembly room; brick veneer facing. Also included is a reinforced concrete 2,500 sq. ft. maintenance shop with brick facing and built-up roof on wood joists. Work includes installation of electrical and mechanical systems and the construction of parking areas, concrete walks and connections to existing utilities.

Nine bids received. LOW BIDS: Albert Stromberg, 6905 N.E. Sacramento, Portland, $223,366 (items 1-11), $12,618 (additive items 16-21), $235,984 (total); Lester H. Burkett, 1615 Hall Lane, Corvallis, $224,046, $12,192, $236,238; Wood, Johnson & Rose, Inc., Box 127, Corvallis, $231,453, $14,893, $246,346. Government estimate, $243,473, $14,055, $257,528. SP 12-18. Previous report 12-10

SCHOOL ADDITIONS— Dallas, Ore.

Bond election will be held January 27 by Polk County School District No. 2, Dallas, on a $150,000 bond issue to finance construction of a four-classroom addition to the south wing and a music room to the south side of the boiler room of the senior high school, and construction of a two-classroom addition to form the first part of a south wing at Whitworth Elementary School at Dallas. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland.

Other work at the high school which may be included will be the extension of the corridor and remodeling of the typing room for office use. SC 12-18

SCHOOL ADDITIONS— Eugene, Ore.

Bids will be called next spring by Eugene School District No. 4, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for construction of additions to seven schools in Eugene. Three architectural firms have been retained by the district to prepare plans and specifications for the projects.

Architects Hamlin & Martin, 159 W. 12th Ave., Eugene, have been authorized to prepare plans for a one-classroom addition to Adams Elementary School, 1050 W. 22nd

Ave.; two-classroom addition to Harris Elementary School, 1150 E. 29th Ave.; library and activity room addition to Laurel Hill Elementary School, 2621 Riverview; one-classroom addition to Washington Elementary School, 615 Harlow Road; one-classroom and library addition to Willagillespie Elementary School, 245 Willagillespie Road.

John L. Reynolds, architect, 364 E. Broadway, Eugene, will prepare plans for one-classroom and activity room addition to Dunn Elementary School, 3411 Willamette.

Architects Wolff & Zimmer, 509 Pearson Bldg., Portland, will prepare plans for an addition containing two classrooms, a shop and a homemaking room to Cal Young Junior High School, 875 Gilham Road.

DW 12-17

●FLOOR TILE— Eugene, Ore.

Bids will be opened 2 p.m., December 23, by Eugene School District No. 504C, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for furnishing and installing floor tile and base in the new addition to the school administration building. Specifications with clerk of the school district. Bid bond 5%. DW 12-14

●HEATING, POWER PLANT ADDITION— Eugene, Ore.

(Estimated cost $486,050)

Bids will be opened 11 a.m., January 16, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, Eugene, for the central heating and power plant addition at the University of Oregon in Eugene. Work will include installation of a high pressure boiler of 50,000 lb. per hour capacity and a condensing generator of 2500 kilowatt-hour production. A 6'x25' building addition will be required for generator equipment.

SC 12-14

SCHOOL ADDITION— Gladstone, Ore.

Bond issue for $250,000 approved for School District No. 115, Clackmas County, Walter Kraxberger, principal, P.O. Box 37, Gladstone, for addition of eight classrooms, gymnasium and cafeteria to the grade school at Gladstone. Preliminary plans underway by Boyd Jossy, architect, 12730 S.E. McLoughlin Blvd., Portland.

Bid call expected about March. Construction will be similar to that used on two new rooms last year, lightweight blocks with open corridors. WB 12-17

SAWMILL, PLANING MILL— Gold Beach, Ore.

Construction will start early in 1958 by U.S. Plywood Corp., 3333 N.W. Front Ave., Portland, on a sawmill and planing mill to be located adjacent to the plywood firm's veneer mill on the Jerry's Flat Road in Gold Beach. Completion of the mill and machinery installation is planned for July 1.

Some of the machinery has been ordered for the mill, according to Manager Frank McPherson. Present plans call for a mill capable of producing 40' long timbers on the band headrig and 32' lumber on the 'pony' side. SC 12-18

RESEARCH CENTER— Grants Pass, Ore.

Initial property in the new industrial park at Grants Pass has been purchased by X-ray Products Corp., Justine G. Schneedman, president, Rivera, Calif., with the site to be used for an electronics research center, Schneedman Electronics. The plant will be built on a five-acre tract and will be a subdivision of the main California corporation. Primary research in non-restrictive testing, through use of X-ray and ultrasonic sound devices, will be among projects at the center. SC 12-12

MANUFACTURING PLANT—Hillsboro, Ore.

Purchase of 16 acres at Hillsboro as a site for a future manufacturing plant has been announced by Armco Drainage and Metal Products, Inc., 1320 S.W. Broadway, Portland. Plans are uncertain as to when drawings will be made or a construction program formulated. When the firm does build however, it proposed to use wide-span prefabricated steel buildings which it manufactures itself. DC 12-10

●FAMILY HOUSING—Kingsley Field, Ore.

Bids will be opened 10 a.m., January 14, by George Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, Klamath Falls, for construction of 70 family housing units at Kingsley Field. Plans with above office. Plans were prepared by Howard R. Perrin, architect, 1121 Main St., Klamath Falls.

This housing is in addition to the 220 units to be built under a contract recently awarded to Gresham Construction Co. of Santa Clara, Calif. (See PCD 9-19).

Work includes 20 two-bedroom units for airmen; 30 three-bedroom duplex type units for airmen; 14 three-bedroom officer duplex units for lieutenants and captains; 5 three-bedroom single units for majors and lieutenant colonels, and one four-bedroom unit for colonels and officers of higher ranks.

ZZ 12-17

★MOTEL— Klamath Falls, Ore.

(Estimated cost $255,000)

Contract negotiated with Silva Construction Co., 907 Alandle St., Klamath Falls, by Harry Molatore, 1112 Main St., Klamath Falls, for construction of a two-story, 14,000 sq. ft., 32-unit motel at 2nd and Main streets at Klamath Falls. Plans by Don Byers, architect, 1620 S.E. Ankeny, Portland.

Structure will incorporate reinforced concrete footings and foundation and pumice block walls with brick exterior facing. Plans allow for future expansion of the building to include shops and a lounge, possibly a restaurant and swimming pool. ZZ 12-14

JUVENILE HOME— Klamath Falls, Ore.

The Klamath County Court, Courthouse, Klamath Falls, has authorized juvenile officer Francis Mathews to prepare tentative specifications and cost estimates for a new building to replace the existing juvenile home at 1949 Main St. in Klamath Falls. The court has not guaranteed construction in the immediate future, but advised Mathews to have cost estimates available for the county budget board's consideration early in 1958.

ZZ 12-18

PULP AND PAPER PLANTS— Klamath Falls, Roseburg, Ore.

Plans announced by International Paper Co. for construction of two new pulp and paper plants, one near Roseburg and one in the Klamath Falls area. Wood for the Roseburg mill, a kraft paper plant, will come from International's timber holdings in southwestern Oregon. The Klamath Falls plant will utilize the stands of lodgepole or jack pine in the area. SC 12-18

★GENERAL ARTS BUILDING— Monmouth, Ore.

Awards announced by Oregon State Board of Higher Education, Earl M. Pallett, secretary, Eugene, for construction of one-story, 15,000 sq. ft., reinforced concrete general arts building at Oregon College of Education at Monmouth. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. AWARDS—GENERAL: Cascade Contractors, Box 774, Eugene, $116,235. MECHANICAL: Bowen Bros. Plumbing and Heating, 860 N. High St., Salem, $44,730. ELECTRICAL: Mayer & Ross Electric, 223 S. 4th St., Corvallis, $13,890.

SC 12-13. Previous report 12-7

●POST OFFICE— North Bend, Ore.

Bids will be received from December 16 through January 31 by Post Office Department, S. G. Schwartz, regional manager, regional real estate office, Box 3703, Portland, for construction of a post office building in North Bend. Specifications with Portland office. The successful bidder will lease the building to the Post Office Department.

Plans call for 6,500 sq. ft. of inside floor space plus outside parking and maneuvering area. Site is located on McPherson Ave. between California and Connecticut avenues.

DC 12-17. Previous report 10-30

STORAGE FACILITIES— Ordnance, Ore.

Bid opening of January 7 has been cancelled and the work deferred by Corps of Engineers, Walla Walla district, Bldg. 603, City-County Airport, Walla Walla, for construction of liquid propellant storage facilities, Umatilla Ordnance Depot, near Ordnance; ENG-45-164-58-11. Another advance notice will be issued if and when project is readvertised. SP 12-14. Previous report 12-11

★CAFETERIA EQUIPMENT— Portland, Ore.

Awards to B. F. Shearer Co., 1947 N.W. Kearney, $1,237, Lowman and Hanford Co., 2725 N.W. Industrial St., $3,982, and D. C. Wax Office Equipment House, 219 S.W. Broadway, $855, by Portland School District No. 1, 620 N.E. Halsey St., Portland, for cafeteria equipment for various schools and storeroom stock. All bidders are of Portland. Bids opened November 13.

WB 12-14. Previous report 11-1

★PAINTING BUILDINGS— Portland, Ore.

Award to T. L. Henderson, 6952 N. Vincent Ave., Portland, $2,433, by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland, (P.O. Box 4099), for carpentry and painting for Buildings No. 7, 10 and 56, Swan Island.

WB 12-13. Previous report 12-10

★RAZING BUILDINGS— Portland, Ore.

Award by Portland Exposition-Recreation Commission, 623 Park Bldg., Portland, for razing buildings on approximately three acres in portions of Blocks 7, 11, 14, 18, 19, 20, 21, and 22, of McMillen's Addition and Blocks 10 and 11, Elizabeth Irving's Addition. AWARD: John L. Jersey, 3647 S.E. 34th Ave., $3,995. OTHER LOW BIDS: Pioneer Construction Co., 7204 N.E. 6th Ave., $5,490; Harold G. Lavelle, 10430 S.E. Bush St., $10,923. Of Portland. Bids opened December 10. WB 12-13. Previous report 11-22

★FINISH CLASSROOMS— Portland, Ore.

Award to Anfelt B. Hansen, 2115 S.E. Ogden St., Portland, $34,340, by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for finishing of seven classrooms at the new Woodrow Wilson High School, 1151 S.W. Vermont St., Portland. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland.

WB 12-13. Previous report 11-30

●FOLDING TABLES; KITCHEN EQUIPMENT— Portland, Ore.

Bids will be received until 2:30 p.m., P.S.T., December 26, and opened at 3:30 p.m., by Portland School District No. 1, 620 N.E. Halsey St., Portland, for folding tables for various schools and storeroom stock, and for large kitchen equipment for various cafeterias. Certified check or bid bond 10%. WB 12-13

★GRADE SCHOOL ADDITION— Portland, Ore.

Award to A. C. Bardi, 8105 S.E. Duke St., Portland, $24,634, by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for construction of two-classroom wood frame addition in existing playshed at Jason Lee Elementary School, 2222 N.E. 92nd Ave., Portland. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland. WB 12-13. Previous report 11-30

★STEEL LIBRARY SHELVING— Portland, Ore.

Award by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering steel library shelving, fob BPA office, Portland; Inv. No. 8587. AWARD: Neilsen Metal Industries, Salem, $1,766. OTHER BIDS: Mercer Steel Co., Portland, $2,436; Remington Rand Division, Portland, $2,468; Estey Corp., New York, N.Y., $2,370. Bids opened November 27. WB 12-17. Previous report 11-14

HIGH SCHOOL REMODELING— Portland, Ore.

(Estimated cost, $1,100,000)

Plans underway by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland, for complete remodeling of Jefferson High School, 5210 N. Kerby Ave., for Portland

School District No. 1, J. W. Edwards, superintendent, 620 N.E. Halsey St., Portland. Start of construction will probably depend on approval of a tax levy in May, 1958.

All four floors will be remodeled with new floor coverings, new acoustical ceilings, rewiring of entire building, new cabinets in classrooms, chalk, tack and cork boards in classrooms, new doors, lockers, installation of sprinkler system, and modernization of the heating system. WB 12-17

SCHOOL EXPANSION— Portland, Ore.

Bond issue for $150,000 approved for Sylvan School District No. 42 Jt., Multnomah and Washington counties, 1849 S.W. 58th Ave., for expansion of the West Sylvan School, 7711 S.W. Sunway St. Working drawings will start immediately by Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland, and bids will be opened about mid-March. Addition will include six classrooms (including equipment) and completion of dressing rooms; frame construction with brick veneer. Eight additional classrooms may be added later to bring the school to its ultimate size of 22 classrooms. WB 12-17

SHOPPING CENTER— Portland, Ore.

Construction is expected to start next spring on the second unit of a shopping center for Fred Zwahlen, 4985 S.W. Laurelwood Drive, Portland, on his former dairy farm on S.W. Bertha Beaverton Highway, just east of Raleigh Hills. James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland, has drawn a plot plan for a large development. The initial unit, just completed, is a 50'x200', two-story reinforced concrete building with glass and aluminum front. Three similar buildings and two larger ones are planned for the future. Leasing agents are Guardian Realty Co., Tigard. WB 12-17

●DEMOLITION OF BUILDINGS— Portland, Ore.

Bids will be opened 10:30 a.m., January 2, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for demolition of buildings on Lots 5 and 6, Block 7, and Lots 1, 7 and 8, Block 8, Portland Addition, for clearing right-of-way for west approaches to Hawthorne Bridge; Project 296. Specifications with roadmaster, 2115 S.E. Morrison St. $2 charge. Certified check or bid bond 10%. WB 12-17

●LIGHTING MODIFICATIONS— Portland, Ore.

Bids will be opened 2 p.m., December 26, 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-58-26. WB 12-17

●REHABILITATE SHOWERS— Portland, Ore.

Bids will be opened 9 a.m., December 26, 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. WB 12-17

▲DORMITORIES— Portland, Ore.

Bids received by Reed College, Carlton Whithead, director of college relations, room 214, Eliot Hall, Portland, for construction of four split-level dormitory buildings, total of 24,000 sq. ft., steel frame and concrete, across the lake from Eliot Hall. Plans by Farnham, Shell & Hoyt, architects, 4444 S.W. Corbett Ave., Portland. Bids opened December 14. LOW BIDS: Juhr & Sons, 1339 S.E. Gideon St., Portland, $320,900; Norman Builders, 2805 S.W. 3rd Ave., Portland, $327,319; E. E. Settergren, 3723 S.E. 21st Ave., Portland, $332,663. WB 12-17. Previous report 12-11

●COURTHOUSE IMPROVEMENTS— Portland, Ore.

Bids will be opened 3 p.m., December 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., 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. Specifications with above office. SP 12-18

OFFICE, WAREHOUSE BUILDING— Port Orford, Ore.

(Estimated cost $55,000)

Bids which will be called soon by Coos-Curry Electric Cooperative, Inc., Port Orford, will be received in the office of Robert F. Fisher, architect, 422 Hall Bldg., Coos Bay, for construction of a one-story and no basement, 5,000 sq. ft., block office and warehouse building on Highway 101 at Port Orford. Plans are nearing completion by the architect whose offices are located at the above Coos Bay address and at 220 N.E. Beacon Drive, Grants Pass. $25 deposit on plans when available.

Reinforced concrete footings and foundation; 50x100'; concrete slab floors; prestressed girders, beams, columns, some steel; flat roof, precast concrete slabs; masonry partitions; steel and aluminum windows; paint exterior, plaster and paint interior wall finish; aluminum exterior, wood interior wall trim; plaster on block partitions; vinyl asbestos tile flooring; acoustical ceilings; wood, aluminum (one) and overhead doors; wood and steel cabinets; folding doors; glass panels, vault door; vermiculite and rigid fiber insulation in block cores and on roof deck; slimline fluorescent lighting; electric baseboard heating system; mechanical ventilation. SP 12-18. Previous report 12-3

★TRUCKING TERMINAL— Roseburg, Ore.

Award to Jack Mathis, Roseburg, by Oregon-Nevada-California Fast Freight Inc., Ernest Gritsch, Oregon manager, 1225 S.E. Water Ave., Portland, for construction of a 50'x80', concrete and concrete block trucking terminal on a site at N.E. Garden Valley Road, west of Stephens St. in Roseburg. DC 12-17. Previous report 11-2

★METAL PARTITIONS— Salem, Ore.

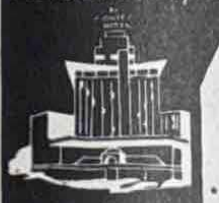
Award to Modernfold Door Co., Inc., 2527 S.E. 12th, Portland, $2,828, by State Department of Finance and Administration, 1225 Ferry St., Salem, for furnishing and installing metal partitions in Highway Building at Salem; Inv. No. S-8462-57. Bids opened December 9. SP 12-17. Previous report 12-3

DORMITORY ADDITION— Salem, Ore.

(Estimated cost $273,000)

Whitney, Hinson & Jacobsen, architects, Failing Bldg., 618 S.W. 5th, Portland, have been retained by Oregon State Board of Control, Capitol Bldg., Salem, to prepare plans for an addition to the dormitory, to

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include a classification and diagnostic center and a multipurpose auditorium, at MacLaren School for Boys near Salem.
CP 12-18. Previous report 12-4

MOTEL EXPANSION— Seaside, Ore.

Plans announced by owners of the Queen Front Motel, Seaside, for construction of a second story addition to the one-story motel, providing an additional 15 units. The eight-unit motel is located on the Prom between 1st and 2nd avenues in Seaside. SC 12-17

● CITY HALL REMODELING— Springfield, Ore.

Bids will be opened 10 a.m., January 13, by E. Robert Turner, city manager, City Hall, Springfield, for remodeling the existing library quarters in the city hall to provide for city recorder and secretary-receptionist offices. Plans with Donald Lutes, architect, U. S. National Bank Bldg., Springfield.
DW 12-13

WASHINGTON

BANK— Bellingham, Wash.

Bids may be called about January 1, 1958, by Seattle-First National Bank, 2nd and Cherry, Seattle, for construction of a 7,250 sq. ft. one and a half-story bank building and a 6,500 one-story rental addition on E. Holly St. and Cornwall Ave. in Bellingham. Working drawings are nearing completion by John W. Maloney, architect, 754 Central Bldg., Seattle.

Reinforced concrete construction; rigid insulation on flat built-up roof; brick veneer, Indiana limestone, granite exterior; plate glass, insulation type glass, aluminum sash; ¾" Herculite doors; vinyl, asbestos vinyl, some asphalt tile flooring; steel stud and plaster, masonry partitions; acoustical plaster ceilings, incombustible acoustical fissure tile ceilings; fluorescent, incandescent lighting; oil-fired hot water heating system. Carpeting will be done by the owners. Building will be designed for air conditioning. PD 12-12. Previous report 6-26

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

Plans have been completed by J. Gilday of Bellingham for a one- and two-story with partial basement, 65'x110', L-shaped, eight-unit apartment building at 600 Maple St. in Bellingham, for Otto F. Fesser, owner. Included in the work will be a 100'x80' parking area located in the area surrounded on two sides by the arms of the "L." The two-story portion of the building will face on Maple St. and the one-story portion on High St.

Poured concrete footings and foundation; frame walls; concrete retaining walls and steps; concrete floors; flat built-up roofing; frame partitions; wood stairways; contractor specifications on windows; cedar siding exterior walls on upper story, brick veneer on lower story; wood doors and cabinets; fiber glass insulation in walls and ceilings; electric perimeter heating in each apartment unit. ET 12-12. Previous report 12-7

STUDENT UNION BUILDING— Bellingham, Wash.
(Estimated cost $525,000)

A new architect will be retained soon by Western Washington College of Education, Dr. W. W. Haggard, president, Bellingham, to prepare plans and specifications for the proposed student union building to be constructed in the 500 block on High St. in Bellingham. The architects previously retained will be relieved of future connection with the project, as a result of a meeting of the college board of trustees.
ET 12-17. Previous report 11-8

SCIENCE BUILDING— Bellingham, Wash.
(Estimated cost $2,388,000)

Bids may be called in May 1958 by Western Washington College of Education, Dr. W. W. Haggard, president, Bellingham, for construction of a 90,000 sq. ft. science building to be located behind the college library at High St. and Campus Drive in Bellingham. Preliminary plans will be presented to the college board of trustees in January by Paul Thiry, architect, 800 Columbia St., Seattle. The May bid call is contingent upon trustees' approval of plans.
ET 12-18. Previous report 10-8

● SPRINKLER SYSTEM—Bremerton, Wash.

Bids will be opened 2 p.m., January 9, 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. Specifications with above office. SP 12-18

LIBRARY— Brewster, Wash.

Approval has been given by City Council, A. L. Lowery, Mayor, City Hall, Brewster, of a plan for a new city building which would house the municipal library as well as city offices. The structure would be erected on a site near the existing police station. DC 12-18

● BANK— Clarkston, Wash.
(Estimated cost $300,000)

Bids will be opened 2 p.m., January 7, in the office of George W. Stoddard-Huggard & Associates, architects, 1120 Harvard Ave., Seattle, by National Bank of Commerce, Seattle, for construction of a two-level, 10,119 sq. ft. reinforced concrete bank on the corner of 6th and Elm, Clarkston. Select list of bidders. $25 deposit.

Brick masonry veneer, some tile exterior; concrete block; batt, rigid insulation in built-up roof; metal sash; aluminum doors; drywall partitions; asphalt tile, some vinyl asbestos; vinyl flooring; fluorescent lighting; acoustical tile ceiling; oil-fired hot water heating system. Plans include an asphaltic concrete parking area approximately 150'x 250' in area. Bank fixtures will be let under separate contract.
PD 12-14. Previous report 10-30

CLUBHOUSE— Clarkston, Wash.

Bids will be called in time for construction to be completed by spring of 1958 by Clarkston Golf and Country Club, Dale Kenaston, chairman, Clarkston, for a new clubhouse to replace the structure destroyed by fire last November. It has not been decided where the clubhouse will be located on the 18-hole golf course.
DR 12-12. Previous report 12-5

P.U.D. ADMINISTRATION BUILDING— Everett, Wash.
(Estimated cost $750,000)

Included in the $9,418,433 budget for 1958 which has been announced by Snohomish County PUD No. 1, 3030 Colby, Everett, is a project involving construction of a new administration building to be located east of the service headquarters building on California Ave. in Everett. Plans will be prepared by William Arild Johnson & Associates, architects, 3506 Broadway, Everett.
HH 12-18

FAMILY HOUSING— Fairchild AFB Defense Area, Wash.

Bids will be opened about January 21 by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of 64 Capehart family housing units at four sites in the Fairchild AFB Defense Area, including 16 single units at each of F-07, F-37, F-45 and F-87 sites, in the vicinities of Four Lakes, Medical Lake, Deep Creek and Spokane; ENG-45-108-58-27. Specifications with above office. Completion time 210 days. Plans were prepared by Whitehouse, Price & DeNeff, architects, and E. J. Deeble, associate, Hutton Bldg., Spokane.

All units are wood frame and siding with strip shingle roofing. Work also includes pumphouse and above ground steel water tank at site F-07; domestic water systems, fire hydrants and hosehouses, sanitary sewers, septic tanks and drain fields, clearing and grubbing, grading and drainage, sidewalks and paving, topsoiling and seeding.
SP 12-13. Previous report 12-6 Spokane

★ BUILDING REMODELING— Fort Worden, Wash.

Award to DelGuzzi Bros., 1020 N. Front St., Port Angeles, $103,000, by Director Garrett Heyns, General Administration Bldg., Olympia, for remodeling of Bldg. Nos. 202 and 203 at Fort Worden, Port Townsend.
SC 12-18. Previous report 11-30

★ BUILDING REMODELING— Fort Worden, Wash.

Award to Cotton Engineering and Shipbuilding Corp., 120 Madison, Port Townsend, $11,236, by Director Garrett Heyns, General Administration Bldg., Olympia, for remodeling of Bldg. 201 at Fort Worden, Port Townsend. Bids opened December 19.
SC 12-18. Previous report 12-4

▲ HOUSING UNITS, SITE DEVELOPMENT— Geiger AFB, Wash.

Thirteen firms submitted bids on either or both air force personnel housing projects at Burns, Ore., and Cottonwood, Idaho. Bids were opened December 9 by procurement office of the 84th Fighter Group at Geiger Field, Spokane. The bidder-design offers were sent to air force headquarters in Omaha, Neb., for evaluation. The figures given below are apparent low amounts. Detailed lists appear under Burns, Ore., and Cottonwood, Idaho, items on this page.

Low Bids—Allied Construction Co., Box 124, Parkwater Station, Spokane, Wash., $330,286 total for Burns, Ore., 25 housing units and utilities, $231,810 for 27 units at Cottonwood, Idaho; Troy B. Hood, Opportunity, Wash., $470,120 at Burns; Crescent Construction Co., Box 4137, Station B, Spokane, $427,171 for Cottonwood.
DC 12-14. Previous report 11-26

SWIMMING POOL— Hoquiam, Wash.
(Estimated cost $250,000)

A proposal to construct a swimming pool at Hoquiam will appear on the general ballot of the city election in March, according to Mayor F. W. McGuire, City Hall, Hoquiam. Bonds to finance the pool would be raised by a tax levy. As a site for the pool, property next to the YMCA building in Hoquiam could be purchased for $4,000, an amount considered reasonable by Dale D. Pederson, architect, 229 Broadway N., Seattle. SC 12-12

● JUNIOR HIGH SCHOOL— Kennewick, Wash.
(Estimated cost $1,000,000)

Bids will be opened January 14 by Kennewick School District No. 17, Edward F. Bloom, superintendent, 500 S. Dayton St., Kennewick for construction of a 29-classroom junior high school on a 20-acre site at W. 4th Ave. and Tweedt St. in Kennewick. Plans with John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima. Capacity of the building will be 750 students. Approximately half the cost of the building $544,513, will be paid by the state. DC 12-17. Previous report 11-27

■ DORMITORY EXTENSION— Keyport, Wash.

Planholders announced for construction of a 33'x14'x12' high wood frame dormitory extension to Fire Station Bldg. No. 76 at the U. S. Naval Torpedo Station, Keyport; Spec. No. 12280/57. Bids will be opened 2 p.m., December 23, by 13th Naval District, room 100, Bldg. 232, U. S. Naval Station, Seattle.

Planholders: C & R Builders, 1619 8th N., Seattle; Commercial Builders, 114 Shore Drive, Bremerton; Moberg Construction Co., Route 2, Box 714, Tacoma; Selmer C. Paulson, 1347 Trenton, Bremerton; Lent's, Inc., 279 4th St., Bremerton; Standard Plumbing and Heating, Box 168, Manette Station, Bremerton; General Industries, Inc., 106 Main, Edmonds; Dale M. Madden, 3010 E. 163rd, Seattle; Hanberg Construction Co., Ridgeway Road, Bremerton; Winterburn Construction Co., Box 202, Port Townsend; Ron Sowa Construction Co., Box 202, Bremerton; Clair E. Prescott, 3516 Airport Way, Seattle; Ballard Contractors, Inc., 4501 6th N.W., Seattle.

Extension will have concrete foundation wall and floor slab; brick veneer; wallboard interior finish; asphalt tile flooring; built-up roofing with gravel surfacing. Work includes provisions for the electrical and existing walls and brick veneer; relocation of windows, doors and frame; disposal of materials. PD 12-14. Previous report 12-6

HAWKS PRAIRIE SCHOOL— Lacey, Wash.

Voters in North Thurston School District No. 3, Lacey, will ballot on a $250,000 bond issue March 11 to finance construction of a new school building. The new structure will be called Nancy Jane Hawk School and will have 18 classrooms. It will be located on 20 acres in Hawks Prairie.

Superintendent of the school district, Charles Callahan, Lacey, has announced that the bond issue would keep the district eligible for the maximum state aid. If the bonds are approved, construction will start in the summer. Cost of the building is estimated at $425,000. DC 12-18

COLLEGE ADDITIONS— Longview, Wash.

Bids will be called about February 1 by Longview School District No. 122, Cowlitz County, Scott Milligan, superintendent, 28th and Lilac, Longview, for construction of a science building and library addition to the Lower Columbia Junior College near the present campus at 1600 Louisiana and Maple streets. DC 12-18

SCHOOL MODERNIZATION— Longview, Wash.

Bids will be called early in May by Longview School District No. 122, Cowlitz County, Scott Milligan, superintendent, 28th and Lilac, Longview, for modernizing Kessler, St. Helens, Columbia Valley Gardens, R. A. Long elementary schools and the administrative offices at Lower Columbia Junior College. DC 12-14

ELEMENTARY SCHOOL— Longview, Wash.

Bids will be called about February 1 by Longview School District No. 122, Cowlitz County, Scott Milligan, superintendent, 28th and Lilac, Longview, for construction of the Columbia Heights Elementary School. The school is part of a construction program that is being financed by the recently approved $2,600,000 bond issue. DC 12-17

SCHOOL CONSTRUCTION— Longview, Wash.

Bond issue in the amount of $2,600,000 was approved in the December 10 election held by Longview School District No. 222, Scott Milligan, superintendent, 28th and Lilac, Longview, to finance a six-year building program for the district.

The proposed building program includes the following facilities at Lewis and Clark Junior College: library, science building, administrative offices, vocational equipment, classroom building, gymnasium, and swimming pool to serve both the junior college and the Mark Morris school. Other projects in the program include the Columbia Heights Elementary School, Olympic school addition, modernization of existing schools, acquisition of future sites and landscaping at existing schools, and gymnasium seats at the Mark Morris school. A site for a junior high school will be obtained and plans prepared for the school. The board hopes as much as $743,000 in state matching funds will be made available to aid the program.

SC 12-13. Previous report 10-30

SCHOOL ADDITION, GYM SEATING— Longview, Wash.

It is hoped that plans can be started soon for an addition to the Olympic Elementary School and for new seating for the gymnasium at the Mark Morris School in Longview. The two projects were among those being financed by a recently approved $2,600,000 bond issue for Longview School District No. 122, Cowlitz County, 25th and Lilac streets, Longview. DC 12-18

JUNIOR HIGH SCHOOL—Longview, Wash.

An architect will be retained early in 1958 by Longview School District No. 122, Cowlitz County, Scott Milligan, superintendent, 25th and Lilac, Longview, to prepare plans for a new junior high school building. DC 12-18

COLLEGE PE BUILDING—Longview, Wash.

Bids will be called early in August by Longview School District No. 222, Scott Milligan, superintendent, 28th and Lilac, Longview, for construction of classroom and a physical education structure for Lower Columbia Junior College. DC 12-18

SIWMMING POOL— Longview, Wash.

An architect will be selected early in 1958 to prepare plans for a swimming pool for the Longview School District No. 122, Cowlitz County, Scott Milligan, superintendent, 25th and Lilac, Longview. DC 12-18

APARTMENT BUILDING— Mountlake Terrace, Wash.

The Mountlake Terrace Planning Commission has postponed until January a decision concerning a building permit requested by Jack Peterson for a two-story 20-unit combination apartment and commercial building, with space for a tavern and bowling alley, at 232nd S.W. and 58th Ave. W., in Mountlake Terrace. Plans were prepared by George Heideman and Donald Van Wieringen of Mountlake Terrace.

HH 12-17. Previous report 11-12

LIBRARY— Oroville, Wash.

Construction will be performed by volunteer labor for a 30'x45' addition to the Civic League building at Oroville to house quarters for the Oroville branch of the Columbia River Regional Library. SC 12-18

▲HANGAR DOOR REPAIR— Paine AFB, Wash.

Six bids received by U. S. Air Force, Procurement Office, Paine AFB, for repair of hangar door in Bldg. 207 at the base; Inv. No. 45-602-58-27. Bids opened December 12. TWO LOW BIDS: Whitehorse Engineering, 14213 51st S., Seatle, $1,645; Willar Construction Co., 9709 Greenwood, Seattle, $1,959. HI BID: Arrow Iron and Machine Works, 1327 Weller St., Seattle, $4,769.

HH 12-14. Previous report 11-30

●■ BUILDING REPLACEMENT— Paine AFB, Wash.

Bids will be opened 2 p. m., December 23, by U.S. Air Force, Procurement Office, Paine AFB, for replacement of Bldg. No. 435 at the base; Inv. No. 45-602-58-31. Specifications with above office. Bid bond 20%.

Planholders: E. F. Shuck Construction Co., 535 Pontius, Seattle; Gill Construction, Inc., 5117 25th Ave. N.E., Seattle; E. G. Rasmussen Construction Co., 7720 E. Greenlake Way, Seattle; Metropolitan Construction Co., 1008 Broadway, Everett; Sanford Wright, 302 Clark Bldg., Box 809, Everett; Van Werven & Van Andel, 517 Front St., Lynden; Burfitt Construction Co., 1445 W. 56th, Seattle; Roy E. Rudd, Box 835, Everett; Frank Damson, Route 2, Hillside Road, Everett; Dale M. Madden, 3010 E. 163rd, Seattle; Alton V. Phillips Co., 4055 21st Ave. W., Seattle; Lindbrook Construction Co., 21016 Five Corners Road, Edmonds; D & A Construction Co., 1113 N. 100th, Seattle; Hall Construction Co., Box 1466, Tacoma; Olympic Prefabricators, 7030 15th N.W., Seattle.

HH 12-14

▲ROOF REPAIR— Paine AFB, Wash.

Six bids were submitted to 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. 45-602-58-18. Bids opened December 11. TWO LOW BIDS: Henry Scholter Roofing Co., Lynden, $2,967; Associated Roofing and Sheet Metal Corp., 3918 6th N.E., Seattle, $3,569. HI BID: Independent Sheet Metal Corp., 1723 Westlake Ave. N., Seattle, $4,344.

HH 12-13. Previous report 11-19

▲CHURCH— Pasco, Wash.

Bids received by the Episcopal Church of Our Saviour, 1215 W. Court, Pasco, for construction of a one-story, 4,000 sq. ft. church at Pasco. Plans by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane. Bids opened December 11. LOW BID: Fairbanks Construction Co., 308 Gumwood, Moses Lake, $64,226. OTHER BIDS: Lewis Hopkins, Box 930, Pasco, $66,337; Ree McReynolds, 747 S. Tacoma, Kennewick, $66,523; Sceva Construction Co., N. 2928 Madelia, Spokane, $67,699; Hazen & Clark, 108 W. Boone Ave., Spokane, $67,884; Jensen-Rasmussen & Co., Box 89, Sunnyside, $70,770; Elvrum Construction Co., E. 2700 Lewis, Pasco, $72,127; J. G. Ungerecht, 911 Park St., Pasco, $78,391.

This is the first addition for the church. Description: slab on grade; frame with stone veneer; glued laminated wood arches; frame partitions with plywood and drywall finish; aluminum sash, hot water radiant heat in floor slab.

SC 12-14. Previous report 12-7

HIGH SCHOOL ALTERATIONS— Pullman, Wash.

McClure & Adkison, architects, 707 Sherwood Bldg., Spokane, will be retained by Pullman School District No. 307, Louis Bruno, superintendent, Pullman, to prepare plans and specifications for alterations to the Pullman High School. Principal phase of the work involves shifting walls between rooms 306 and 308 to provide two large science rooms instead of the present three junior high school classrooms.

Preliminary estimates are also being obtained and plans drawn for alterations to the high school cafeteria and for the addition of a paved parking area to the rear of the building. MH 12-18

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CLINIC, APARTMENT— Seattle, Wash.

Working drawings will be started about January 1 by Donald M. Wilson, architect-owner, 605 Bell St., Seattle, for construction of a 2,000 sq. ft. medical-dental clinic and a two-story six-unit 25'x150' apartment building at the corner of W. Barton St. and 45th Ave. S.W., Seattle.

PD 12-18. Previous report 7-26

●DOOR, WINDOW REPAIR—Seattle, Wash.

Bids will be opened 3 p.m., December 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for door, window and other miscellaneous repairs at the Federal Office Bldg., 909 1st Ave., Seattle; Proj. No. SEA-896. Specifications with above office. SP 12-18

■MAINTENANCE AND REPAIR BUILDING— Seattle, Wash.

Planholders announced by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle, for construction of a one-story and mezzanine, 25,000 sq. ft. maintenance and repair headquarters building at Ashworth Ave. and N. 128th St. in the Haller Lake area, Seattle. Bids will be opened 2 p.m., January 8, by Board of Public Works, E. G. Henry, secretary, 512 County-City Bldg., Seattle. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle. Plans available from room 501 County-City Bldg., Seattle. $25 deposit.

The city engineering department will use the building for their north end headquarters. Shop area and offices will be on the first floor, with additional offices, showers and locker rooms on the mezzanine.

Rigid steel frame; pre-fab concrete panel exterior; wood decking; built-up roof; plastic skylights; steel sash, steel doors; concrete block partitions; concrete floors; convectors, unit heaters, fired by low-grade oil.

Planholders: Hugh S. Ferguson Co., 3028 Western Ave.; Gwinn Construction Co., 8539 Interlake; Wayne Construction Co., 3812 Stone Way; Anderson Construction Co., 13501 Aurora; John H. Sellen Construction Co., 228 9th Ave. N.; Hallidie Builders, 210 Hudson; Northern State Construction Co., 2833 26th Ave. W.; Ray Solie Construction Co., 12 W. McGraw; C & R Builders, Inc., 1619 8th Ave. N.; Cawdrey & Vemo, 3601 Fremont; Hebb & Narodick Construction Co., Inc., 232 4th Ave. N.; Newland Construction Co., 1411 Rucker Ave., Everett; Puget Construction Co., Inc., 1811 Bush Place. Of Seattle except as noted. PD 12-14. Previous report 12-7

OFFICE BUILDING— Seattle, Wash.
(Estimated cost $3,750,000)

Construction is slated for spring of 1958 by Howard S. Wright & Co., Inc., general contractors, 414 Pontius, Seattle, on the new 12-story, 100,000 sq. ft., glass, aluminum and steel exterior Fifth and Union office building to be located on the northeast corner of 5th and Union St. in Seattle, for the Antero Co., Bagley Wright, president, Seattle. Architects and engineers for the project are Mandeville & Berge, Joseph Vance Bldg., Seattle, with whom Emery Roth & Sons, consulting architects, New York, will work in an advisory capacity. The building will have a frontage of 115' on 5th Ave. with 120' facing Union. Completion is expected in time for occupancy in the summer of 1959.

Treatment of the exterior of the structure will be a combination of glass, steel and anodized aluminum with horizontal panels of aluminum in bands extending around the entire building at window level. Vertical mullions of bronze aluminum will be spaced at intervals of 10' with two windows between each mullion. One window will be fixed, the other openable. The first two floors of the building will be completely glassed in. Above them and set back 16' on one side from the lot line will rise the other floors. Suspended ceilings of acoustical tile will provide offices with a maximum of noise control. Prime feature will be complete air conditioning, making the building the first major commercial structure in Seattle to be so equipped. Preliminary plans also call for a tower-top restaurant and roof garden. Tenants will be served by newest developments in automatic elevators with maximum waiting period of 35 seconds. SP 12-13. Previous report 11-6

DEPARTMENT STORE— Seattle, Wash.
(Estimated cost $20,000,000)

A 160-acre site at 57th Ave. S. and the Renton-Three Tree Point Road, has been acquired by Southcenter Corp. for a proposed south end shopping center. Southcenter Corp. is a recently organized subsidiary of Allied Stores Corp., of which Rex Allison of The Bon Marche, is vice president. The Bon plans a department store in the shopping center tract which adjoins the route of the Tacoma-Seattle-Everett freeway.

John Graham & Co., architects and engineers, have been retained by the Southcenter Corp. to prepare plans for the development.

Construction will depend on the highway program as the state highway engineers have planned a traffic interchange at the junction to the tract. The new center will be part of a 550-acre area recently acquired by White & Bollard for Andover, Inc.

DM 12-13. Previous report 12-7

MUSICIANS BUILDING— Seattle, Wash.

Working drawings are underway by Ibsen A. Nelsen and Russell Sabin, architects, 1314 E. 43rd, Seattle, for a two-story 15,000 sq. ft. reinforced concrete and masonry building on 3rd Ave. and Cedar, Seattle, for Musicians Club, Local 76, Chet Ramage, business representative, 309 Cedar St., Seattle. Club offices, dining facilities and a 300-person capacity auditorium will occupy the first floor. The second floor will provide rental space. Building will be constructed for future expansion into extra floors as need for rental space.

Flat built-up roof, with rigid insulation in roof; metal window walls; resilient flooring. PD 12-10. Previous report 9-5

APARTMENT— Seattle, Wash.

Preliminary drawings are underway by Blain McCool, architect, 9700 Roosevelt Way, Seattle, for a 12,000 sq. ft. four-story 19-unit apartment to be constructed at 9th Ave. W. and Crockett, for E. Lovell, owner, Seattle. Building will be wood frame, with brick veneer exterior. PD 12-10

APARTMENT— Seattle, Wash.

Working drawings will soon be started by Blain McCool, architect, 9700 Roosevelt Way, Seattle, for a 27,000 sq. ft. three-story 15-unit apartment on the corner of 10th Ave. N. and E. Boston, for D. P. Heinz, owner. The wood frame building will have brick veneer exterior. PD 12-10

★PARTITIONS— Seattle, Wash.

Award to C & R Builders, 1619 8th Ave. N., Seattle, $1,099, by General Services Administration, Federal Office Bldg., Seattle, for new partitions, 3rd and 4th floors, Federal Office Bldg., 909 1st Ave., Seattle; Proj. No. SEA-942. SP 12-17. Previous report 12-11

●ELEMENTARY SCHOOL— Seattle, Wash.
(Estimated cost $306,149)

Bids will be opened 2 p.m., January 7, by Highline School District No. 401, in the office of the district clerk, 253 S. 152nd, Seattle, for construction of the one-story Northeast McMicken Heights Elementary School near 42nd Ave. S. and S. 164th, Seattle. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle. $20 deposit.

Plans include ten classrooms, a multi-purpose room administrative area, toilet facilities, boiler room and kitchen. This is the first unit of a two-part construction plan, with future expansion to include and additional ten classrooms, a playshed and a library.

Wood, steel frame; flat built-up roof; cement plaster exterior; steel sash; plaster partitions; acoustical tile ceilings; asphalt tile flooring; batt insulation in roof; corrugated plastic and corrugated cement-asbestos board in awnings and covered walks; hot water boiler with hot air exchangers. Some asphaltic concrete will be used in area outside of the building.

PD 12-17. Previous report 11-19

●ADDITION TO RESIDENCE— Seattle, Wash.
(Estimated cost $16,000)

Bids will be opened for the second time at 4:30 p.m., December 30, in the office of Paul Hayden Kirk A.I.A. & Associates, 615 Lakeview Blvd., Seattle, for construction of a two-story addition to the John White residence at 16026 38th N.E., Seattle. $10 deposit. Select list of bidders. Bids were previously opened on August 5, and subsequently rejected.

Planholders: Charles Tuttle, 15031 Dayton Ave.; George Raymond, Route 2, Box 5400 B, Issaquah; Hamlin Construction Co., 1117 N. 85th; Tom Paulsen, 905 12th Ave. N. Of Seattle except noted.

Wood frame; wood exterior; concrete foundation, concrete slab-on-grade, steel beams; flat built-up roof, cedar shingles; drywall, tileboard, ceramic tile partitions; louvered aluminum windows; vinyl asbestos flooring; solid, hollow core slab doors, aluminum sliding doors; wood cabinets; corrugated plastic skylight; aluminum foil insulation in walls and ceilings, oil-fired warm air heating. Plans include approximately 1,134 sq. ft. new construction and 500 sq. ft. of remodeling. L & W Construction Co., 112257 3rd Ave. N.W., Seattle, has been deleted from planholders list.

PD 12-17. Previous report 10-5

OFFICE BUILDING— Seattle, Wash.
(Estimated total cost $12,000,000)

Excavation will be started immediately by Howard Wright & Co., Inc., 414 Pontius, Seattle, for construction of the 21-story, 332,830 sq. ft. Norton Building, south of the Exchange Bldg., facing 2nd Ave. and extending west along Columbia St. to 1st Ave., in Seattle, for United Exchange Corp., owners, Seattle. Completion is scheduled for mid-summer of 1959. Plans by Bindon & Wright, architects, Hoge Bldg., Seattle, and Skidmore, Owings & Merrill, consulting architects, San Francisco, Calif.

The structure will rise 17 floors above the lobby level. An entire floor below the 2nd Ave. level will house mechanical equipment that is used in operating the building. Below this level will be three parking floors. A landscaped plaza will be featured at the 2nd Ave. entrance. The building will have a free standing office tower rising above a four-story platform.

A structural steel and concrete core will extend the full height of the building and will contain eight elevator shafts (two of which will not be utilized at this time), duct and mechanical shafts and fire stairways. Supporting columns and perimeter to be of structural steel; curtain-wall type exterior consisting of extruded aluminum mullions, with thermal insulation behind glass spandrels; tinted gray glass sealed windows; larger part of structure from 2nd Ave. level down faced with granite; entrance plaza finished in ceramic tile; floors of precast and pre-stressed concrete beams, spaced 10' on centers over which is poured 6" reinforced concrete slab and which will span 70', permitting office areas with no interior columns; vinyl flooring; acoustical tile ceilings; flush type fluorescent lighting designed with 5' module, giving about 50' candles in office areas; ceramic tile walls and floors in toilet areas, flush type metal toilet stalls, wash basins in flush type formica counter tops; steam heat from central steam system; air conditioning throughout building, controlled from central panel which will permit immediate determination in any part of building and with induction units on perimeter walls, ceiling diffusers in interior areas; Herculite entrance doors. There will be six 800'-per min. highspeed automatic elevators, approached through glassed-in lobby and set back from 2nd Ave. entrance about mid-way in the building.

The Canadian Bank of Commerce will occupy the 2nd Ave. level, with direct entry from elevator lobby and from the plaza. An escalator will be installed to bring pedestrians from 1st Ave. level to lobby, which will be interconnected with the Exchange Bldg. lobby. Tenants will be able to go from car parking levels directly to office floors. Each office floor will have men and women's restroom facilities located on exterior walls. Office floors will be equipped with an underfloor duct system, permitting maximum flexibility for electric wiring. Modular design in lighting throughout entire building permits maximum flexibility in tenant layout.

Contract will include all phases of con-

struction except the elevators, for which the contract award will be announced in the near future. PD 12-18. Previous report 12-13

●HEATING SYSTEM ALTERATIONS— Seattle, Wash.

Bids will be opened 3 p.m., December 2, by General Services Administration, room 128, Federal Office Bldg., 909 1st Ave., Seattle, for heating system alterations in the Federal Office Bldg., above address; Proj. No. SEA-955. Specifications with above office. SP 12-18

●STAIRWAY, PAVING— Seattle, Wash.

Bids will be opened 3 p.m., December 30, by General Services Administration, room 128, Federal Office Bldg., 909 1st Ave., Seattle, for construction of concrete stairway and paving at Bldg. 266, Naval Air Station, 6125 Sand Point Way, Seattle; Proj. No. SEA-656. Specifications with above office. SP 12-18

●ELECTRICAL DISTRIBUTION SYSTEM— Seattle, Wash.

Bids will be opened 3 p.m., December 27, by General Services Administration, room 128, Federal Office Bldg., 909 1st Ave., Seattle, for new electrical distribution system, Federal Office Bldg., above address; Proj. No. SEA-836. Specifications with above office. SP 12-18

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

Working drawings will be underway soon by John Graham & Co., architects, 1426 5th Avenue Bldg., Seattle, for an addition to the cyclotron building in the northeast corner of the campus, for University of Washington, Seattle. PD 12-18

RESIDENCE HALL ADDITION— Seattle, Wash.

A preliminary application is to be made for a $1,500,000 loan from Federal Housing and Home Finance Agency, by Board of Regents of University of Washington, Seattle, for financing construction of a 300-person capacity addition to women's residence hall on the campus. PD 12-18

ENGINEERING BUILDING— Seattle, Wash.
(Estimated cost $1,000,000)

Construction of a new general engineering building is planned by Board of Regents of the University of Washington, Seattle. A site will be selected and an architect retained, following a survey by an architectural committee which is studying ways of harmonizing architectural style of the university campus and its buildings. PD 12-18

ADMINISTRATION BUILDING— Seattle, Wash.
(Estimated cost $700,000)

Construction of a new business administration building is planned by Board of Regents of the University of Washington, Seattle. Selection of site and architect will be determined following a survey by an architectural committee which is studying ways of harmonizing architectural style of the university campus and buildings. PD 12-18

JUNIOR HIGH SCHOOL—Silverdale, Wash.
(Estimated cost $700,000)

Bids will be opened about January 20 by Central Kitsap School District No. 401, Box 2, Silverdale, for construction of a one-story and no basement, 54,000 sq. ft., poured concrete and concrete block junior high school at Silverdale. Plans by A. F. Jensen & Associates, architects, 252 Broadway, Tacoma. $25 deposit on plans when available.

Concrete footings and foundation; poured concrete and frame walls; concrete floors; glued laminated and concrete girders, beams, columns; frame partitions; steel and aluminum windows; wood and concrete exterior, gypsum board interior wall finish; drywall and plaster partitions; asphalt tile flooring; acoustical ceilings; wood and steel doors; wood cabinets; special equipment includes corrugated plastic panels, blackboards and fire doors; fluorescent lighting; hot water heating system, oil-fired.

SP 12-18. Previous report 12-3

CONVENTION CENTER—Soap Lake, Wash.
(Estimated cost $350,000)

The chamber of commerce in Soap Lake has voted to pass a resolution for forming a local improvement district for construction of a convention center at Soap Lake. SC 12-18

CIVIC IMPROVEMENTS— Spokane, Wash.

Five separate bond issues covering a variety of civic improvements may be placed on the ballot at the March 11 general election to be held by City Council, City Hall, Spokane. Proposals under discussion are as follows: (1) Raising $225,000 as the city's share to construct a 10,000-seat baseball park; (2) Parks and recreation facilities, which could include municipal swimming pools, filtration systems for existing pools, additional tennis courts and similar projects; (3) New central library or a branch library; (4) Modernization of municipal airport facilities at Geiger Field; (5) Street improvements.

No formal agreement has yet been reached by the city and county for constructing the ball park. Concerning the swimming pool issue, no decision has been reached as to whether new swimming pools should be built or new filtration systems installed in existing pools, or both. It has not been decided whether a new central library should be constructed or a branch library. The Geiger Field improvement would include construction of a new terminal building, erection of a new control tower and completion of taxiways.

Street improvements would include such projects as the widening of Market St. and its eventual linking over the Greene St. bridge to the 2nd and 3rd one-way couplet; extension of Stevens St. from 7th through Pioneer Park to Cliff, then Sumner and Grove, and finally to Bernard at 13th, and similar improvements. SC 12-13

HIGHWAY DISTRICT OFFICE— Spokane, Wash.
(Estimated cost $330,000)

Bids will be called in January by Washington State Highway Commission, W. A. Bugge, director, Olympia, for construction of a reinforced concrete main office building for the district headquarters in Spokane. Prequalification forms can be secured from Jim Heaton at the Highway Office, 2820 Mayfair St., Spokane, or from W. A. Bugge in Olympia. Plans prepared by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane.

Reinforced concrete poured in place with precast floor channels; steel joist, steel roof deck, built-up roofing; gas fired low pressure steam heating system; air conditioning. LL 12-17

JUNIOR HIGH SCHOOL—Sunnyside, Wash.

Bond election will be held March 11 by Sunnyside School District No. 201, Lee Colby, superintendent, Sunnyside, on a $900,000 bond issue to finance construction of a new brick 800-student junior high school at Sunnyside. Plans by Don Gochnour and Ed Marble, architects, Miller Bldg., Yakima. School will have 34 teaching stations, library; offices; and cafeteria which will serve as multipurpose room. Structure will be court type with built-up roofing and concrete slab floors. IG 12-12. Previous report 10-26

●MADISON SCHOOL (Mechanical Contract)— Tacoma, Wash.

Bids will be opened for the second time at 3 p.m., January 3, by Tacoma School District No. 10, Toney Shelton, secretary and business manager, Administration Bldg., S. 9th and Tacoma Ave., Tacoma, on the mechanical portion of the eight-classroom addition to be constructed to Madison Elementary School in Tacoma. Plans with Robert Billsbrough Price, architect, 2907 A St., Tacoma. $25 deposit.

Bids were rejected on the mechanical portion of the work at the time contracts were awarded on the general and electrical contracts. General contractor is Woodard Construction Co., 3842 N. Frace, Tacoma, who will work under a $105,858 contract; electrical contract was awarded to Glassy-Roth Electric, 221½ S. 38th, Tacoma, in the amount of $12,900. Mechanical plans and specifications have been revised by the architect and include duct work and unit ventilator changes, although the basic hot air system has been retained. SC 12-13. Previous report 12-4

●NORTHWEST TACOMA SCHOOL— Tacoma, Wash.

Bids will be opened 3 p.m., January 7, by Tacoma School District No. 10, Toney Shelton, secretary and business manager, Administration Bldg., S. 9th and Tacoma Ave., Tacoma, for construction of a four-unit campus plan school designed as an addition to the Northeast Tacoma Elementary School at 5412 29th N.E. in Tacoma. Plans with Johnston, Evans & Parker, architects, 1111 Washington Bldg., Tacoma. $20 deposit. The existing building will be razed on completion of the new units.

The addition will consist of four units, designed in campus plan, with a fifth section to be used as an amphitheater. One building will house four classrooms; another will have two classrooms, library and administration room; the third will be used for multipurpose room equipped with movable stage; and the fourth will be a playshed. The amphitheater will be outside the multipurpose room and will be bid as an alternate. The four units will each be 64'x64', one-story, and connected by plastic roofed covered ways, sheltered by wood screen walls. Each unit will be identical except for 12' wall panels in multipurpose building; others having 8' high walls.

Description for all units: concrete block on concrete footings; folded plane roof, prefabricated plywood stressed skin units joined in self spanning form supported only on perimeter wood columns which also support prefabricated plywood wall panels; beam minimal, acting only as tension chords after roof panels installed; plastic perimeter of all units; stainless steel jalousies in vents only, all other fixed glass; fiberglass quilt insulation in wall and roof panels. Finish: exposed structural system in classrooms with supporting casework system and interior face of fir plywood wall units, stained, other walls of gypsum board with fixed glass relights; fir trim; exposed fir plywood roof panel face and acoustic tile bands on ceiling; wood doors and cabinets; folding doors; high output fluorescent tubes; electric baseboard heating; portable stage; movable casework; carried system; exhaust type ventilating system. SC 12-13. Previous report 11-12
School Addition

MACHINERY FIRM BUILDING— Tacoma, Wash.
(Estimated cost $250,000)

Bids may be called early in 1958 or contract may be negotiated on the proposed 30,000 sq. ft. precast concrete and glass building for Murphy-Campbell Co., Frank Murphy, president, 2719 S. Tacoma Way, Tacoma.

Plans for the structure are being prepared by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. Site of the building is on a level 10-acre tract adjacent to the Puyallup River Bridge on Highway 99 in Tacoma. DM 12-10. Previous report 11-12

■OFFICE, WAREHOUSE— Tonasket, Wash.

Planholders announced for construction of a ranger station office building and warehouse in Tonasket, Okanogan County, Okanogan National Forest, Wash. Bids will be opened 2 p.m., December 23, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St. (Box 4137), Portland.

Planholders: Rudd Construction Co., 602 Realty Bldg., Spokane; Mann Construction Co., Box 577, Redmond, Ore.; Spencer Construction Co., 465 W. Garibaldi, Hillsboro, Ore.; Schuyler Southwell, 816 McLoughlin Blvd., Milwaukie, Ore.; W. L. Reid Co., 3178 S.W. 87th, Portland; Cusicks, Inc., 739 S. Mission, Wenatchee; R. E. Colyar, Okanogan; Claud Gann, Okanogan; Frank Johnson, Winthrop; Wayne Construction Co., 3810 Stone Way, Seattle; Bennett & Hickey, Box 1013, Burns, Ore.

LL 12-17. Previous report 12-6

●BUILDING REMODELING— Vancouver, Wash.

Bids will be opened January 13 by Van-

couver School District No. 37, 2223 Kauffman Ave., Vancouver, for remodeling three buildings at MacArthur Blvd. and Devine Road to provide administrative quarters and physical education facilities at Vancouver. Plans with Coburn Ackley, architect, 211 E. 11th, Vancouver. Two buildings will be used as administrative quarters for the school district and the third as a physical education structure. The buildings were recently purchased from Vancouver Housing Authority. SC 12-14

OIL REFINERY— Vancouver, Wash.

Pacific Supply Cooperative, Charles Baker, general manager, 103 Boyer, Walla Walla, is considering construction of a multi-million dollar oil refinery at Vancouver. A decision on the proposed project should be reached by mid-January. Studies to determine costs and economic feasibility of the refinery are being made by a Los Angeles research firm. Selection of a site for the 10,000 to 15,000 bbl. daily capacity plant is being discussed by Pacific Supply and the Port of Vancouver. SC 12-17

★LAUNDRY, STOREROOM ADDITION— Vancouver, Wash.

Award to Ray Dahl, 2102 Winter Drive, Vancouver, $7,697, by Department of General Administration, 218 General Administration Bldg., Olympia, for construction of a laundry and storeroom addition to the barracks building at Larch Mountain honor camp about 40 mi. northeast of Vancouver.

DE 12-18. Previous report 11-23

LIVESTOCK-EXPOSITION BUILDING— Walla Walla, Wash.

(Estimated cost $75,000)

Walla Walla County Commissioners, Courthouse, Walla Walla, have taken under advisement a request that they help in constructing a proposed 140'x240' livestock and exposition building at the Southeastern Washington Fairgrounds in Walla Wall. The request was made by representatives of several county organizations and individuals.

SC 12-12. Previous report 11-29

MOTEL— Walla Walla, Wash.

(Estimated cost $180,000)

Construction which was planned to start December 1 has been temporarily delayed on the two-story 26-unit motel to be located at 2nd and Cherry strets in Walla Walla, according to Russell D. Konrad, executive vice president, Pacific Development Corp., Portland, Ore. All bids have not yet been received on the subcontract work, and there is some indecision with regard to parking facilities. It is hoped that further action may be taken later this month.

SC 12-12. Previous report 11-9

●TENT CAMP FACILITIES—Yakima, Wash.

Bid opening re-established as 1 p. m., December 23, 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. Specifications with above office. Bid opening was originally scheduled for December 13 and then postponed.

SP 12-14. Previous report 11-30

▲INSURANCE BUILDING— Yakima, Wash.

Bids received by United Pacific Insurance Co., 214 E. A St., Yakima, for construction of a one-story and no basement, 50'x100', SCR brick district office building at E. Yakima Ave. and S. Naches Ave. in Yakima. Plans by Thomas F. Hargis, Jr., architect, 514 Miller Bldg., Yakima. Bids opened December 11.

BIDS—GENERAL: Wallingford & Shelton, Yakima, $42,400; Hugh Templeton, 9th Ave. and Fruitvale Blvd., Yakima, $44,267; Jake Leingang, 3804 Summitview Ave., Yakima, $47,925; Howard E. Martin, Sunnyside, $48,167; V. K. Powell, Wapato, $49,569; Gilbert H. Moen, 516 S. 5th Ave., Yakima, $49,870; Joe E. Venne, Sunnyside, $52,190; Schademan Bros., Toppenish, $64,738. MECHANICAL: Central Plumbing and Heating, 510 S. 1st St., Yakima, $19,973; Bradford Plumbing and Heating, 3510 Nob Hill Blvd., Yakima, $21,370; Buren Sheet Metal, 501 W. Washington, Yakima, $23,178. ELECTRICAL: Edwards Electric, 803½ Summitview, Yakima, $8,966; Duke's Electric Service, Bldg. 35, Pasco Airport, Pasco, $9,449; Creamer Electric, 119 S. 1st St., Yakima, $9,529; Royal Co., Box 166, Kennewick, $11,205.

Concrete footings and foundation; 5,000 sq. ft.; concrete floors; steel girders, beams, columns; flat roof; masonry and frame partitions; aluminum windows; SCR brick exterior, plaster interior wall finish; wood and metal exterior, wood interior trim; plaster with gypsum lath partitions; vinyl asbestos flooring; plaster acoustical ceilings; corrugated plastic panels, fire doors, general kitchenette facilities and metal toilet partitions; mineral batt insulation in ceiling and exterior walls; forced air heating system, gas fuel; ventilating system.

IG 12-13. Previous report 12-3

ELEMENTARY SCHOOL ADDITION— Zillah, Wash.

(Estimated cost $135,000)

Preliminary plans underway by Cowan & Paddock, architects, Larson Bldg., Yakima, for construction of a six-classroom addition to Zillah Elementary School, for Zillah School District No. 205, Milford T. Crawley, superintendent, Zillah. A bond election may be held in March for the project. IG 12-18

IDAHO

ELEVATOR REPLACEMENT— Boise, Idaho

(Estimated cost $100,000 to $150,000)

Plans will be issued about January 27 by General Services Administration, Director of Design Service, Munitions Bldg., Washington, D. C., for replacement of elevators in Bldg. Nos. 27 and 67 at Boise; Proj. No. 11-4072. GH 12-17

PAPER CONTAINER PLANT—Burley, Idaho

(Estimated cost $1,000,000)

Construction is contemplated by Boise Cascade Corp., Robert V. Hansberger, president, 114 S. 10th, Boise, on a corrugated container plant in Burley. Present plans call for start of construction in time for summer completion. A site has not yet been selected, but several options have been obtained and it is expected that a decision will be announced soon. DC 12-14

CHURCH— Burley, Idaho

(Estimated cost $100,000)

Plans will be completed in January by Cecil E. Jones, architect, 131 2nd St. W., Twin Falls, for a one-story and no basement, 9,600 sq. ft., frame with brick veneer church building to be constructed at Burley, for First Presbyterian Church of Burley. Mechanical engineer is E. C. Stephanson of Burley; electrical engineer T. O'Rouark, Yates Bldg., Boise.

Concrete footings and foundation; concrete slab floor; flat roof; glued laminated arches in sanctuary; frame partitions; wood windows; exposed masonry and drywall partitions; asphalt tile, vinyl asbestos tile flooring; drywall ceilings; wood doors and cabinets; folding doors; blanket insulation in exterior walls; forced warm air heating system, gas-fired. SP 12-13

▲HOUSING UNITS, SITE DEVELOPMENT— Cottonwood, Idaho

Thirteen firms submitted bids on either or both air force personnel housing projects at Burns, Ore., and Cottonwood, Idaho. Bids were opened December 9 by procurement office of the 84th Fighter Group at Geiger Field, Spokane. The bidder-design offers were sent to air force headquarters in Omaha, Neb., for evaluation. The figures given below are apparent amounts for Cottonwood.

Cottonwood, Idaho — Project involves 27 housing units—Bids were on (1) one four-bedroom officer's house, (2) six three bedroom officers' houses, (3) 20 three-bedroom airman's houses, (4) utilities and site development.

Following are the two apparent low bidders on Cottonwood project: Allied Construction Co., Box 124, Parkwater Station, Spokane, Wash., $11,287(1), $9,974(2), $8,987(3), $77,659(4), $231,810 (total); Crescent Construction Co., Box 4137, Station B, Spokane, Wash., $14,184, $11,758, $11,316, $139,193, $427,171.

Other bidders: White Bros. Co. and Earl L. Kelley, Walla Walla, Wash., $15,278(1), $13,324(2), $11,500(3), $85,344(4); Henry George & Sons, Spokane, Wash., and Dunham Contracting Co., Moscow, Idaho, $15,230, $13,460, $11,400, $142,500; Frank Dunham Co. and A. C. Grant Construction Co., Kennewick, Wash., $15,500, $12,900, $11,100, $70,850; Brenzina Construction Co., Rapid City, S. Dak., and Max Boesiger, Mountain Home, Idaho, $15,500, $13,500, $11,500, $79,000; Texaco Contractors, Inc., Dallas, Tex., $15,500, $13,500, $11,500, $120,824; Beacon Construction Co., Boston, Mass., $15,500, $13,500, $11,500, $129,500; Fred J. Earley, San Francisco, Calif., $15,500, $13,500, $11,500, $257,000; Griewing & Westermeier, Grangeville, Idaho, $16,810, $13,930, $12,470, $112,600.

DC 12-14. Previous report 11-21

ARMORY— Driggs, Idaho

Preliminary plans underway by C. A. Sundberg & Associates, architects, 11 E. 16th St., Idaho Falls, for a new National Guard armory in Driggs, for Idaho National Guard, Capt. James S. Brooks, maintenance engineer, 801 Reserve, Boise.

GH 12-17

EAST SIDE SCHOOL— Idaho Falls, Idaho

Bids will be called in January by Independent Class A School District No. 91, Bonneville County, Clair Gale, superintendent, Idaho Falls, for construction of the one-story, 22,000 sq. ft., L-shaped East Side Elementary School at Idaho Falls. Plans will be complete in January by Norman J. Hamill & Associates, architects, 216 Earl Bldg., Idaho Falls. Completion is scheduled for September 1958. Concrete footings and foundations will be included. Basement area will accommodate boiler and fan room.

SP 12-14

WEST SIDE SCHOOL— Idaho Falls, Idaho

Bids will be called in January by Independent Class A School District No. 91, Bonneville County, Clair Gale, superintendent, Idaho Falls, for construction of the one-story, 22,000 sq. ft. L-shaped West Side Elementary School at Idaho Falls. Plans will be complete in January by Norman J. Hamill & Associates, architects, 216 Earl Bldg., Idaho Falls. Completion is scheduled for September 1958. Concrete footings and foundation will be included. Basement area will accommodate boiler and fan room. SP 12-4

▲REACTOR BUILDING SHELL— Idaho Falls, Idaho

Seven bids were submitted with an eighth bid reportedly delayed in the mails, to Atomic Energy Commission, Box 1221, Idaho Falls, for construction of reactor building shell at EBR II Area at the National Reactor Testing Station, west of Idaho Falls; Inv. No. AT(10-1)-927. Bids opened December 11. LOW BID: Graver Tank and Mfg. Co., Inc., Arcadia, Calif., $663,547. OTHER BIDS: Pittsburgh-Des Moines Steel Co., Santa Clara, Calif., $710,280; Hoffman Construction Co., 715 S.W. Columbia, Portland, Ore., $711,000; Hammond Iron Works, Box 310, Provo, Utah, $761,325; Arrington Construction Co., Inc., Box 811, Idaho Falls, $811,845; Chicago Bridge and Iron Co., 550 W. 17th S., Salt Lake City, Utah, $820,400; Consolidated Western Steel Division of the U. S. Steel Co., 120 Montgomery St., San Francisco, Calif., $1,100,231. Engineers' estimate, $800,000.

The bid which has been delayed was submitted jointly by Jensen-Rasmussen & Co., Box 89, Sunnyside, and B-E-C-K Constructors, 3647 Stone Way, Seattle, in the amount of $819,579, according to B-E-C-K officials in Seattle. SC 12-13. Previous report 12-3

★REACTOR BUILDING SHELL— Idaho Falls, Idaho

Award to Graver Tank and Mfg. Co., Inc., Arcadia, Calif., $633,547, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of reactor building shell at EBR II Area at the National Reactor Testing Station, west of Idaho Falls; Inv. No. AT (10-1)-927. SC 12-17. Previous report 12-13

●SCHOOL ADDITIONS— Rupert, Idaho

Bids will be opened January 20 by Mini-

Idaho County School Board, Camden Meyer, superintendent, Rupert, for construction of a 12-classroom addition to the Paul Elementary School and a seven-classroom addition to Minidoka County High School at Rupert.

The school board will also ask voter approval of a two-mill levy to finance purchase of furniture and equipment for the school additions. SC 12-17

CLINIC ADDITION— Twin Falls, Idaho

(Estimated cost $45,000)

Sub-bids are being taken by Fred W. Read, general contractor, Route 1, Twin Falls, on work and materials involved in construction of a one-story and basement, 1,870 sq. ft., solid masonry addition to the Twin Falls Clinic, Shoshone St. and 6th Ave. E., Twin Falls, for Twin Falls Clinic Building Corp. Plans by Harald E. Gerber, architect, 203 Shoshone St. N., Twin Falls. Completion expected in April 1958.

Concrete on rock footings and foundation; 33'x34'; concrete beam and girder floors; concrete girders, beams, columns; flat concrete roof; concrete stairways; wood windows; masonry exterior, vinyl wall covering interior wall finish; plaster partitions with metal studs; asphalt tile flooring; wood doors; plaster ceilings; wood cabinets; rigid insulation in roof; incandescent and fluorescent lighting; extension to existing steam plant with converters; air conditioning. SP 12-17

MONTANA

RADIO-TELEVISION OFFICE BUILDING— Billings, Mont.

(Estimated cost $500,000)

Construction will start soon on a four-story office building at 3rd Ave. N. and 32nd St. in Billings to house facilities of KOOK Radio and Television Station, according to Joseph R. Sample, president of the station. The new building will provide radio and television production facilities and office space for the firm on the ground floor. Plans call for two main studios. The original structure may not be four-story, but ultimate plans call for a building that size. EE 12-14

ARMY RESERVE TRAINING CENTER— Billings, Mont.

(Estimated cost $500,000)

No funds have been appropriated in the 1957-58 appropriation, or has there been any indication that the same may be included in the 1958-59 appropriation, for construction of the proposed one-story, brick, 400-man U. S. Army Reserve training center in the 1400 block on Broadwater Ave. in Billings, according to Jay J. Kalez, chief, Technical Liaison Branch, Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla. Architects for the building are Cushing, Terrell & Associates, 1333 Airport Road, Billings. Later appropriation could make this project eligible. SP 12-17. Previous report 11-2

SCHOOL— Brady, Mont.

(Estimated cost $330,000)

Plans will be complete in the summer of 1958 by Bordeleau-Pannell & Amundson, architects, 309 1st Ave. N., Great Falls, for a one-story and no basement, 25,500 sq. ft. combined high school and elementary school building at Brady, for Brady High School District and Common School District No. 19, Brady. The building will incorporate concrete footings and foundation. A $330,000 bond issue was recently approved for this project. SP 12-18. Previous report 12-11

COUNTY HOSPITAL— Butte, Mont.

Revised bid forms have been sent out on the three-story county hospital building and a personnel residence to be constructed at Howe Ave. between Yale and Princeton streets in Butte. Bids will be opened 10 a.m., M.S.T., December 20, by Silver Bow County Commissioners, Courthouse, Butte.

The architects, Norman J. Hamill & Associates, 122 W. Granite, Butte, have issued notice that addendum No. 2, alternate No. 15 and addendum No. 1 for omission of entire third floor will not be taken. New bid forms are either in the mail or can be obtained from the architects.

Plans are on file with Pacific Builder & Engineer, 2418 3rd Ave., Seattle. DM 12-18. Previous report 12-10

ELEMENTARY SCHOOLS— Butte, Mont.

Plans will be complete about February 1, 1958, by Eldred F. Moyle, architect, Silver Bow Bldg., Butte, for the new 12-classroom Monroe elementary school and six-classroom Lincoln elementary school to be constructed in Butte. The Monroe school is estimated to cost $350,000; the Lincoln school, $176,443. SP 12-18

ELEVATOR FIRE— Culbertson, Mont.

The Occident elevator, annex, warehouse and office were destroyed by fire on December 10, according to Otis Nelson, elevator manager. Loss has been set at more than $100,000. Plans for rebuilding have not been decided. SC 12-18

■HIGH SCHOOL ADDITIONS— Deer Lodge, Mont.

Planholders announced 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. Bids will be opened 8 p. m., January 8, by Board of School Trustees, Powell County High School, Deer Lodge. Plans with Fox, Ballas & Barrow, architects, Savings Center Bldg., Missoula.

Planholders — GENERAL: Cahill-Mooney Construction Co., Box 398, Butte; Gordon Construction Co., 821 Mount Ave., Missoula; C. B. Lauch, Box 1577, Boise, Idaho; Peterson Construction Co., S. 11th West and Reserve, Missoula. MECHANICAL: Missoula Hardware and Plumbing, Box 1502, Missoula; Schmid Plumbing and Heating, 211 W. Front, Missoula; Reber Plumbing and Heating, 805 N. Main, Helena. ELECTRICAL: Western Montana Electric, 205 W. Front, Missoula; Salisbury Electric, Deer Lodge.

The new addition will be reinforced concrete frame; steel joists; concrete deck and roof; masonry exterior; aluminum windows; gas fired boiler; unit ventilators; incandescent and fluorescent lighting. SC 12-14. Previous report 11-30

■HIGH SCHOOL ADDITIONS— Deer Lodge, Mont.

Additional planholders announced 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. Bids will be opened 8 p. m., January 8, by Board of School Trustees, Powell County High School, Deer Lodge. Plans with Fox, Ballas & Barrow, architects, Savings Center Bldg., Missoula.

Additional planholders: Phillip O. Berg, Box 663, Deer Lodge; Waddell Construction Co., Box 212, Helena; Matelich Construction Co., Box 456, Kalispell; Cerobski Cement Products, Inc., 204 W. McKinley, Lewistown; Haggerty-Messmer Co., 519 W. Aspen, Bozeman; Gens Construction Co., Box 465, Great Falls; William G. Schmidt & Son, 406 E. Park Ave., Anaconda (mechanical).

The new addition will be reinforced concrete frame; steel joists; concrete deck and roof; masonry exterior; aluminum windows; gas fired boiler; unit ventilators; incandescent and fluorescent lighting. DM 12-18. Previous report 12-14

TRAINING CENTER, UTILITIES— Glasgow, Mont.

Invitation for bids has been cancelled and project postponed indefinitely by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of an Army Reserve training center, motor vehicle shed and appurtenant utilities and paving at Glasgow; ENG-45-164-58-12. If and when the project is advertised, another advance notice will be issued. SP 12-13

▲ELEMENTARY SCHOOL, SHOP BUILDING— Glasgow, Mont.

Bids received December 5 were held for tabulation by Glasgow School District No. 1-A, William C. Greer, superintendent, Glasgow, for construction of a wood and tile eight-room elementary school on the north side of Glasgow and a one-story, 5,200 sq. ft. pumice block vocational agriculture shop back of the high school in Glasgow. Plans were prepared by Brinkman & Lenon, architects, Strand Theater Bldg., Kalispell.

Figures, as released by the school district follow for the elementary school only:

GENERAL: Morgen & Oswood Construction Co., Box 225, Glasgow, $173,238; Commercial Builders, Inc., Box 568, Williston, N. Dak., $185,954; Gens Construction Co., Great Falls, $186,569; Lowe Construction Co., Billings, $192,102; Sternhan Construction Co., Glendive, $200,950; Elmer Pogue Construction Co., Billings, $201,970; C. B. Lauch Construction Co., Great Falls, $213,000.

MECHANICAL: Johnson Plumbing and Heating Co., 527 1st Ave. S., Glasgow, $76,-103; Christianson Plumbing and Heating, Billings, $77,166; Budd Plumbing and Heating, Bozeman, $80,208; Cummings Plumbing and Heating, Glendive, $82,470.

ELECTRICAL: Wagenhalls Electric Shop, 525 2nd Ave. S., Glasgow, $19,475; Glasgow Electric, Glasgow, $23,286; Gambles Electric, Glasgow, $24,150.

The elementary school will have concrete slab floor; built-up composition roofing; hot water heating system. DM 12-14. Previous report 11-19

★ELEMENTARY SCHOOL, SHOP BUILDING— Glasgow, Mont.

Awards announced for construction of tile and frame, eight-room elementary school on the north side of Glasgow and a one-story, 5,200 sq. ft. pumice block vocational agriculture shop building back of the high school at Glasgow. Bids were opened December 5 by Glasgow School District No. 1-A, William C. Greer, superintendent, Glasgow. Plans by Brinkman & Lenon, architects, Stand Theater Bldg., Kalispell.

Elementary School—AWARDS — GENERAL: Morgen & Oswood Construction Co., Box 225, Glasgow, $173,238 (basic $143,947 plus $25,176 alternate for three additional rooms and $4,115 alternate for kitchen). MECHANICAL: Johnson Plumbing and Heating Co., 527 1st Ave. S., Glasgow, $76,-103. ELECTRICAL: Wagenhalls Electric Shop, 525 2nd Ave. S., Glasgow, $19,476. Shop Building—GENERAL: Morgen & Oswood, $62,227 (basic $50,361 plus $8,942 alternate for brick facing, $963 alternate for overhead monorail, $1,961 alternate for storage cabinets.)

The elementary school will have concrete slab floor; built-up composition roofing; hot water heating system. Shop building will have concrete slab floor; glued laminated beams; flat roof; steam system gas fired. DC 12-17. Previous report 12-14

CIVIL AERONAUTICS BUILDING— Great Falls, Mont.

(Estimated cost $200,000 to $250,000)

Plans announced by Civil Aeronautics Administration, Los Angeles, Calif., for construction of a two-story 18,000 sq. ft. technical building at Great Falls. Possible sites for the building include Gore Field and various locations on the northwest edge of town. It is expected that a site comprising six or seven acres of ground will be required for the new building. The structure will house the CAA direct air-ground communication facilities, some of the maintenance and training operations and long range radar aircraft tracking equipment. After a suitable site and building needs have been agreed upon, the General Services Administration will attempt to negotiate an agreement with private industry to acquire the site and erect the building to be leased to the CAA. Should this procedure prove unfeasible, the CAA will construct the building. It is hoped the building can be completed, equipment installed and ready for operation about 15 months from now. SC 12-18

COUNTY HOSPITAL— Hardin, Mont.

(Estimated cost $335,000)

Bids will be called in late January or early February by Big Horn County Commissioners, Courthouse, Hardin, for construction of a one-story 12,000 sq. ft., 24-bed county hospital at Hardin. Final plans for the hospital were recently approved by the commissioners.

The new hospital will have ten beds in the

nursing home wing, and 14 general beds. In addition to the beds, the structure will include an operating room, delivery room, kitchen, x-ray and laboratory rooms, office, dining and recreation area in nursing home wing, and other facilities. EE 12-14

★STATE LABORATORY REMODELING— Helena, Mont.

Awards announced by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for remodeling the basement and first floor of the Montana State Laboratory Bldg. to provide a virus laboratory and animal quarters, including special air conditioning system separate from that of the main building. Plans were prepared by Robert Munzenrider, director of hospital facilities, Montana State Board of Health, Helena. Bids opened December 12.

GENERAL—AWARD: Peter Zuroff, 501 1st St., $16,827. OTHER BIDS: Lowe Construction Co., Capitol Hill, $17,470; Sternberg & Son, 311 E. 16th Ave., $18,429; Waddell Construction Co., 1310 Leslie Ave., $18,840; H. P. Bergum, 835 N. Jackson, $19,300; Al Johnson, S. Park Ave., $19,450; John Bergum, 1129 9th Ave., $19,995; L. P. Barney, 1100 Waukesha Ave., $20,660. MECHANICAL: Carlson Plumbing and Heating Co., 28 W. 6th, $23,999 ($24,180 basic, $180 salvage credit). OTHER BIDS: City Plumbing and Heating Co., 413 N. Main, $24,591, $200; Reber Plumbing and Heating Co., 805 N. Main, $25,200, $550; Raue Plumbing and Heating Co., 110 S. Main, $25,763, $250. ELECTRICAL—AWARD: Marshall Refrigeration Service, 330 Fuller Ave., $6,067. OTHER BIDS: Palmquist Electric Co., 420 N. Main, $7,740; Allen Electric Co., 331 N. Main, $7,981; Bonnes Electric Co., 6 S. Park Ave., $8,136; Mayer Electric Co., 210 N. Rodney, $8,460. All of Helena.
LS 12-17. Previous report 12-7

MULTIPURPOSE ROOM ADDITION— Laurel, Mont.

Petitions are being circulated by Yellowstone County School District No. 7, Laurel, requesting an election on a proposed $135,000 bond issue to finance construction of a multipurpose room and four-classroom addition to West School in Laurel. It is anticipated the election will be held in January. Architects for the work are Cushing-Terrell & Associates, 1333 Airport Road, Billings.
EE 12-17. Previous report 9-26

★ROCKET STORAGE BUILDING MODIFICATION—Malmstrom AFB, Mont.

Award to J. E. Beaulaurier, 814 25th Ave. N., Great Falls, $22,074, by U.S. Air Force, Procurement Office, Malmstrom AFB, for modification of a rocket storage building, involving enclosing 85'x15' and 84'x17' areas of an existing building and installing eight 10'x10' rolling steel doors, at Malmstrom AFB; Inv. No. 58-21.
SC 12-18. Previous report 12-7

★FEED PUMP INSTALLATION— Malmstrom AFB, Mont.

Award to Klemencic Plumbing and Heating Co., 2512 9th Ave. N., Great Falls, $3,995, by U.S. Air Force, Malmstrom AFB, for installation of boiler feed pumps in Bldg. T-140 at the base; Proj. MLM(81-57) (MER) (A). Bids opened December 6.
SC 12-18. Previous report 11-29

★PNEUMATIC TUBE SYSTEM— Malmstrom AFB, Mont.

Award to F. T. Crowe & Co., Inc., 329 2nd W., Seattle, Wash., no amount noted, by U.S. Air Force, Malmstrom AFB, for installation of a pneumatic tube system in Bldg. No. 400 at the base. SC 12-18

ELEVATOR FIRE— Manson, Mont.

The E. L. McDonald Mustard Seed Co. elevator at Manson was destroyed by fire on December 13. No estimate of loss is available, according to Manager Charles Worth of Conrad. SC 12-18

●EXTERIOR PAINTING— Miles City AF Station, Mont.

Bids will be opened December 23 by U.S. Air Force, Procurement Office, Malmstrom AFB, for exterior painting of 24 buildings at Miles City Air Force Station. Plans with above office. SC 12-14

ALASKA

WAREHOUSE FIRE— Anchorage, Alaska

A fire of unknown origin destroyed the corrugated metal and wood frame Grocers Wholesale, Inc., warehouse in the Alaska Railroad yards on December 17. Owners Keith Lesh and Jack Barrett report the loss at an estimated $200,000. SC 12-18

●COURTROOM LIGHTING— Ketchikan, Alaska

Bids will be opened 3 p.m., December 27, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for courtroom lighting at the U. S. Post Office, Courthouse, Custom House and Jail, Mission and Stedman streets, Ketchikan; Proj. No. SEA-816. Specifications with above office. SP 12-14

ENGINEERING NEWS

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

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

OREGON

▲CONTROL BOARD, EQUIPMENT— Ashland, Ore.

Bids received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob cars at Ashland, Ore., main control board and supervisory control, telemetering and carrier telephone equipment for Green Springs Powerplant, Rogue River Basin Project, Ore.; Inv. No. DS-4985. Bids opened December 10. LOW BIDS—SCHED. 1: Kirkhof Electric Co., Grand Rapids, Mich., $10,199; Clement Electric Co., Grand Rapids, $10,967; Gustaveson, Inc., Kansas City, Mo., $10,997. SCHED. 2: Westinghouse Electric Corp., Denver, $8,760; Control Corp., Minneapolis, Minn., $9,165; Systems Engineering, a division of Paul Hardeman, Inc., Los Angeles, Calif., $15,332. All bids fob Ashland.

Specifications call for: one main control board, designated CIA, for Green Springs Powerplant (Sched. 1, Item 1); one lot of equipment consisting of controll station supervisory control and telemetering equipment cubicle for Green Springs Powerplant, carrier current transmitter receiver set for Green Springs; water level telemeter transmitter complete with float and accessories for mounting in the government's floatwell and shelter house at Keen Creek Reservoir; one desk-type and two wall-type telephones and ringers for Green Springs and Keen Creek (Sched. 2, item 2).
SP 12-17. Previous report 11-30

▲SEWERAGE SYSTEM— Beaverton, Ore.

Bids received December 11 by Sunset Valley Sanitary District, Washington County, Mildred A. McLaughlin, secretary, Sunset Valley School, 575 N.W. Murray Road, Portland, for construction of sewers (Section A), pumping station on Pioneer Road (Section B), and treatment plant adjacent to existing plant at Marlene Village (Section C). Plans by Carl E. Green & Associates, consulting engineer, 510 Henry Bldg., Portland. LOW BIDS—SECTION A: James & Yost, 5910 N.E. Ainsworth St., $34,521 (300 day completion time); System Construction Co., 8130 S.E. Tolman St., $35,013 (150 day completion); John Luyben & Son, 14005 N.E. Halsey St., $35,356 (90 day completion). SECTIONS B AND C: L. B. Read, 2607 S.W. Sunset Blvd., $147,400; Mac Sharp, 9820 S.W. Eagle Lane, Beaverton, $153,703; Richard L. Martin Co., Box 482, Oswego, $154,559. Of Portland unless noted. WB 12-14. Previous report 12-7

●SEWAGE LIFT AND MAINS— Beaverton, Ore.

Bids will be opened 8 p.m., January 13, by School District 48, Washington County, Madeline Hummel, clerk in the C. E. Mason School, 1250 N.W. Center St., Beaverton, for construction of a sewage lift station and force main. Plans and specifications with Hedge & Huston, engineering consultants, 10154 S.W. Parkway, Portland. Bid bond will be required.

The work includes furnishing and installing a sewage lift station and 490' of 4" cast iron pipe.
DC 12-14

▲SEWERAGE SYSTEM— Beaverton, Ore.

Complete list of bids received by Sunset Valley Sanitary District, Washington County, Millard A. McLaughlin, secretary, Sunset Valley School, 575 N.W. Murray Road, Portland, for construction of sewers (Section A); pumping station on Pioneer Road (Section B), and treatment plant adjacent to existing plant at Marlene Village (Section C). Plans by Carl E. Green & Associates, consulting engineers, 510 Henry Bldg., Portland.

Award expected to be made on Section A, and combined bids on Sections B and C. BIDDERS—SECTION A: James & Yost, 5910 N.E. Ainsworth St., $34,521; 300 days completion; System Construction Co., 8130 S.E. Tolman St., $35,012; 150 days; John Luyben & Son, 14005 N.E. Halsey St., $35,356; 90 days; Riverside Construction Co., P.O. Box 3853, $35,421; B. J. Sheperd & Son, 810 S.E. Mall St., $37,875; Stofiels Excavating Co., 14204 S.E. Elderberry Lane, Milwaukie, $39,018; E. & W. Construction Co., 3170 W. 11th, Eugene, $39,360; L. B. Read, 2607 S.W. Sunset Blvd., $39,666; Frank W. Kanehl, 5203 S.E. 108th Ave., $39,774; Phoenix-Matthews, 1040 N.E. Baldwin St., $41,118; P. S. Lord, 4507 S.E. Milwaukie Ave., $48,483. SECTION B: Anfelt B. Hansen, 4115 S.E. Ogden, $10,785; 300 days; L. B. Read, $11,805; 300 days; Mac Sharp, 9820 S.W. Eagle Lane, Beaverton, $11,921; 150 days; Richard L. Martin, P.O. Box 482, Oswego, $11,994; L. F. Henshaw, 220 Olive St., Eugene, $12,360; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., $12,093; Everett L. Wiggins, 5622 N. Delaware St., $13,002; James & Yost, $13,485; John Kovtynovich, 395 Skyline Loop, Eugene, $13,575. Section C, AND B & C COMBINED: L. B. Read, $135,595, $148,400, 300 days; Mac Sharp, $141,782, $153,703, 300 days; Richard L. Martin, $142,565, $154,559; L. F. Henshaw, $145,161, $157,461; Anfelt B. Hansen, $148,594, $159,383; Charles R. Schmiedeskamp, $149,014, $161,917; John Kovtynovich, $153,618, $167,193; Everett L. Wiggins, $159,635, $172,637; James & Yost, $163,103; $176,588. Of Portland except as noted. Bids opened December 11.
WB 12-17. Previous report 12-14

SEWAGE PLANT EXPANSION— Beaverton, Ore.

(Estimated cost $90,000)

Plans for enlargement of the sewage plant by the City of Beaverton, Al Rossi, mayor, City Hall, Beaverton, are being held in abeyance while the proposal for several sanitary districts to build a joint plant under the Tri-County plan is being considered. Hege & Huston, 10154 S.W. Parkway, Portland, are consulting engineers for the Beaverton plant enlargement.
WB 12-18

▲TOWER ERECTION— Burns Junction AF Station, Ore.

Five bids were submitted to the Director

of Procurement and Production, Air Material Area, McClellan AFB, Sacramento, Calif., for erection of a government-furnished 75' high antenna tower at Burns Junction Air Force Station, Malheur County, Ore.; Inv. No. 58-167. Bids opened December 4. TWO LOW BIDS: Charles I. Cunningham Co., Box E, Oakdale, Calif., $2,868; Scott Electric Co., Box 1611, Reno, Nev., $3,380. HI BID: Steel Erection and Rigging Co., Beason Bldg., Salt Lake City, Utah, $6,500. SP 12-13. Previous report 12-6

★SEWERAGE LAGOON, FORCE MAIN— Burns, Ore.

Awards announced by City Council, City Hall, Burns, for an 80-acre sewerage lagoon (Sched. L) and pumps (Sched. P) and force main (Sched. S) to be constructed at Burns. Specifications were prepared by Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem. AWARDS—SCHED. L: M. J. Hawkins, Ontario, $25,339. SCHED. P and S: Joplin Construction Co., 2140 N. 1st, Hermiston, $36,788. SP 12-17. Previous report 12-6

UTILITY TUNNEL— Corvallis, Ore.
(Estimated cost $368,000)

W. Bruce Morrison, consulting engineer, Cascade Bldg., Portland, has been retained by Oregon State Board of Higher Education, Earl M. Pallett, secretary, Eugene, to prepare plans and specifications for another section of the utility tunnel at Oregon State College in Corvallis. The section will serve the School of Engineering, Benton Hall, and other buildings. Construction is planned for summer of 1958. Electrical distribution work in the first unit of the tunnel will also be planned. SC 12-14

●FLOODLIGHT MODIFICATION— Depoe Bay, Ore.

Bids will be opened 2 p. m., December 30, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for modifying the floodlight installation at Depoe Bay Entrance Channel, Depoe Bay; Inv. No. FS-1691. Specifications with above office. SP 12-13

●GRADER BLADES— Eugene, Ore.

Bids will be opened 9 a. m., December 23, by Lane County Commissioners, Harry L. Chase, county clerk, Courthouse, Eugene, for 4,116' (or 686 pieces) ½"x8" 6' grader blades. Specifications with clerk. Bid bond 10%. DW 12-14

MILLRACE RESTORATION— Eugene, Ore.
(Estimated cost $40,000 to $50,000)

The Oregon State Board of Higher Education, Earl M. Pallett, secretary, Eugene, has authorized signing of a contract with the City of Eugene and Eugene Water and Electric Board for the University of Oregon participation in restoration of the old millrace at Eugene. Plans will be prepared by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis.

Project involves installation of a pumping station to draw water from the Willamette River near the head of the millrace, north of Franklin Blvd. Work will also include channel improvements and construction of a diversion outlet. DW 12-18

STATION SERVICE EQUIPMENT— Green Springs, Ore.

Bids will be called January or February by Bureau of Reclamation, L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., for furnishing one 460-115 volt a-c distribution board, one 125-volt d-c distribution board and a battery charger for Green Springs Powerplant, Rogue River Basin Project, Ore. DM 12-13

●WATER PIPE— Heppner, Ore.

Bids will be opened January 6 by City Council, City Hall, Heppner, for 2,100' water pipe and five fire hydrants for the Court St. project of the city water system. Specifications with above office.
SP 12-17. Previous report 12-11

●DRILLING WATER WELL— Klamath Falls, Ore.

Bids will be opened 3 p. m., P.S.T., December 30, by U. S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.E. Oregon St., P. O. Box 4137, Portland, for drilling, casing, sealing, developing and testing a water well on government-owned site at the Fort Klamath Ranger Station located approximately 32 mi. north of Klamath Falls, Ore., on Highway No. 62, Rogue River National Forest; Bid No. 210. Plans with supply office or with Supervisor, Rogue River National Forest, Post Office Bldg., Medford. Location of drilling will be staked on the site. WB 12-13

SEWER WORK— Klamath Falls, Ore.
(Estimated cost $29,000 to $71,000)

The Klamath Falls City Council has promised to provide sewer service to the recently annexed Sunnyland Addition in 1958. A special session will be held soon by the council to study the plans and decide upon a course of action. Three alternate plans have been presented by City Engineer E. A. Thomas. SC 12-18

IRRIGATION— Medford, Ore.

An election will be held January 14 in Medford and Rogue Valley irrigation districts on a proposal to spend $1,554,500 to improve irrigation facilities in order to obtain maximum benefits from the Talent Project. The amount is apportioned as follows: MEDFORD IRRIGATION DISTRICT—$964,000 allotment. $361,000 for enlargement of lateral canal system and the Phoenix Canal, and reconstruction of Bear Creek Diversion Dam in Talent; remaining amount to be used to pay district's share of Talent Project cost. ROGUE RIVER DISTRICT—$580,500 allotment. $279,000 for rehabilitation costs including tiling of 38,515' of laterals, bank repairs, improvement of 34,350' of Hopkins Canal and placing 12 wooden flumes on Hopkins Canal; remaining $301,500 to be used for Talent construction costs. DC 12-18

ASPHALT PLANT EXPLOSION— Milwaukie, Ore.

An explosion demolished the main building of the Sherwin Corp., an asphalt plant, at Milwaukie on December 9. Loss is estimated at between $75,000 and $100,000 by the owner. SC 12-18

WATER SYSTEM RENOVATION— Myrtle Point, Ore.

Bond election will be held as soon as necessary arrangements have been completed by City Council, City Hall, Myrtle Point, on a $250,000 bond issue to finance complete renovation of the city water system, including filtering facilities. ZZ 12-11

SNAKE RIVER BRIDGES— Ontario, Ore.

A contract will be let in February or March by Department of Highways, 603 Main St., Boise, Idaho, for construction of twin bridges across the Snake River at Ontario, Ore., to handle interstate highway system traffic. A 13-mi. link in the interstate road, from the Idaho approach to the twin bridges near New Plymouth, Idaho, should be open in 1959. The bridges will be financed jointly by Idaho and Oregon. SC 12-10

▲SEWER INSTALLATION— Portland, Ore.

Bids received by Will Gibson, city auditor, City Hall, Portland, for construction of sewer in S.W. 35th Ave. from 20' south of S.W. Dakota St. to the existing sewer in S.W. Vermont St.; Ord. No. 107012. LOW BIDS: Don Thornton, 2809 W. 21st St., Vancouver, $3,757; System Construction Co., 8130 S.E. Tolman St., Portland, $4,064; Atlas Construction Co., 9400 S.E. Powell Blvd., Portland, $4,140. Bids opened December 11.
WB 12-14. Previous report 12-7

★YOKE ASSEMBLIES— Portland, Ore.

Award to Schmitt Steel Co., Inc., 2765 N.W. Nicolai St., Portland, (Item 1) $15,290; (2) $7,800; (4) $2,692, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 523 yoke assemblies for delivery at Goshen, Ore.; Inv. No. 8561.
WB 12-13. Previous report 11-19

★TRANSFORMERS— Portland, Ore.

Award to Federal Pacific Electric Co., San Francisco, $7,496, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 11 station service transformers, fob Wenatchee, Wash.; Mead, Wash.; Goshen, Ore., and Eavan Spur, Vancouver, Wash.; Inv. No. 8549.
WB 12-13. Previous report 11-16

★OIL STORAGE TANKS— Portland, Ore.

Award to King Bros. Co., 3500 S.E. 17th Ave., Portland, $14,171, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering oil storage tanks to various destinations in Washington; Inv. No. 8562. Bids opened November 14. WB 12-13. Previous report 10-29

▲BATTERY CHARGERS— Portland, Ore.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering battery chargers, two fob Wenatchee, Wash., one fob Pasco, Wash., and one fob Eavan Spur, Vancouver, Wash.; Inv. No. 8593. LOW BIDS: Ratelco, Inc., 820 Minor N., Seattle, $1,500; Control Corp., Minneapolis, $2,335; C. & D. Batteries, Inc., Conshohocken, Pa., $2,595. Total of 11 bids were received December 10. WB 12-13. Previous report 11-21

★STREET IMPROVEMENTS— Portland, Ore.

Award to Tipton & Jones, 1925 S.E. 30th Ave., Portland, $5,221, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for completing the grading and rocking, and constructing curbs and driveway aproaches and surfacing with asphaltic concrete on N.E. Schuyler St. from N.E. 129th Ave. to N.E. 126th Ave.; Project D-261.
WB 12-14. Previous report 12-5

★DUMP TRUCKS Portland, Ore.

Award to International Harvester Co., 635 N.E. 2nd Ave., Portland, $41,645, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for furnishing eight heavy duty dump trucks for road department.
WB 12-14. Previous report 10-25

●BRIDGE APPROACHES— Portland, Ore.
(Estimated cost $850,000)

Bids will be opened 10:30 a.m., January 14, by Multnomah County Commissioners, 504 Multnomah Courthouse, Portland, for construction of the new west approaches of the Hawthorne Bridge in Portland. (The date announced in PCD 12-12 was in error, as was the estimated cost). Plans with Paul Northrop, county roadmaster, 2115 S.E. Morrison St., Portland, $25 deposit. Plans by Moffatt, Nichol & Taylor, structural engineers, 1845 N.E. Couch St., Portland.

Work includes construction of Madison St. and Main St. approaches, the Harbor Drive "on" and "off" ramps, depressing and realignment of Front Ave., alteration to Harbor Drive in the vicinity of the bridge, alteration to and widening of the west end of the existing Hawthorne Bridge, and the removal of existing trolley car rails and reconstruction of rail slots for entire length of bridge. The elevated structure consists of a composite design using steel stringers or prestressed concrete stringers, and concrete decks supported on reinforced concrete bents and abutments. The majority of the concrete bents and abutments are supported on spread footings; the remainder, on piling. On-grade approaches and ramps to the elevated structure consist of selected fill materials either contained by retaining walls and abutments, or with landscaped sloped sides. Also included is all required work to adapt existing streets, curbs, sidewalks and drainage structures to accommodate the new approaches and ramps.

Quantities: Clearing and removal of existing approaches; 7,265 sq. yd. removal of walks, floors and pavement; 1,900' removal of curbs; 100 c.y. removal of miscellaneous concrete and masonry; 1,255 c.y. trench excavation unclassified; 17,400 c.y. general excavation unclassified; 4,560 c.y. structural excavation unclassified; 1,380 c.y. gravel fill; 24,250 c.y. sand fill; 1,930' furnishing composite pipe piles; 46 each driving pipe piles;

structural and deck concrete, all required; 780 c.y. concrete on grade; steel reinforcement, all required; option on prestressed concrete stringers or structural steel stringers; structural steel work and alterations to existing bridge; 14,600 lb. miscellaneous metal; 1,540' bridge rail; 650' stair handrail; 590' metal guard rail; 880 c.y. bottom course of rock base; 330 c.y. top course of rock base; 500 ton Mixture No. 1 and 1,160 ton Mixture No. 2, asphaltic concrete; 340' asphaltic concrete markers; 2,390' of 8" 130' of 12" and 150' of 15" concrete pipe; 860' extra for pipe under pavement; 6 drop manhole connections; 3 concrete manholes; 37 concrete inlets; electrical work; sprinkler system; 14,122 plants for shrubbery landscaping; 58,000 sq. ft. lawn. Bidders must be prequalified before plans can be issued. Bids must include list of sub-contractors.
WB 12-14. Previous report 12-12

●CONCRETE PIPE— Portland, Ore.

Bids will be opened 2 p.m., December 23, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing concrete sewer and culvert pipe, including non-reinforced, reinforced and ring-seal concrete pipe. Award will be on basis of price lists less discounts. Certified check or bid bond 10%. WB 12-14

●REINFORCEMENT BARS—Portland, Ore.

Bids will be opened 11 a.m., P.S.T., December 17, by U.S. Forest Service, G. L. Mercer, purchasing agent, 729 N.E. Oregon St., room 209, Portland, for reinforcement bars for concrete, as follows: 298 bars ⅜"x30'; 242 bars ½"x40', fob Portland; Inv. No. 212. WB 12-13

▲WATER PIPE— Portland, Ore.

Bids received by city purchasing agent, 208 City Hall, Portland, for furnishing 8,000' of 24" mechanical joint, class 150, cast iron water pipe. BIDDERS: Pacific States Cast Iron Pipe Co., Portland Trust Bldg., Portland, $118,720; U.S. Pipe & Foundry Co., Colman Bldg., Seattle, $123,600. Bids opened December 12.
WB 12-17. Previous report 12-10

▲IRRIGATION SYSTEM— Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for installation of an irrigation system for the landscaped areas of the bear grottos at the Portland Zoological Gardens in Hoyt Park. BIDDERS: Ernest Ferrante & Co., 3908 S.E. Bybee Ave., Portland, $3,997; E. P. Baltz & Son, 9817 E. Burnside St., Portland, $5,206. Bids opened December 12.
WB 12-17. Previous report 12-10

▲REINFORCING STEEL— Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for approximately 90 tons reinforcing steel for all city bureaus for calendar year 1958. BIDDERS: Farwest Steel Co., Eugene, $20,032, ½ of 1% discount; Soule' Steel Co., 2630 N.W. St. Helens Road, Portland, $20,872 (5% differential); Mercer Steel Co., Inc., 2636 N.W. 26th Ave., $21,234, ½ of 1% discount. Bids opened December 5.
WB 12-17. Previous report 11-22

★WELDER— Portland, Ore.

Award to Industrial Specialties Co., 940 S.E. 7th Ave., Portland, $998, by U.S. Forest Service, 729 N.E. Oregon St., room 209, Portland, for furnishing one welder, fob Baker, Ore.; Inv. No. 202. Invitation No. 197 for a welder, fob Baker, was cancelled. Bids opened December 10.
WB 12-18. Previous report 12-5

●STEAM DISTRIBUTION LINES— Portland, Ore.

Bids will be opened 11 a.m., January 23, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, in room 117, Administration Bldg., University of Oregon Medical School, Portland, for providing steam distribution facilities to heat various buildings at the medical school in Portland. Plans obtainable from J. Donald Kroeker & Associates, consulting engineers, 4504 S.W. Corbett Ave., Portland. $25 deposit.

Line will extend from central heating plant across the gully to the state tuberculosis hospital, the crippled children's division and the women's dormitory. A branch will extend from this line to the physical plant department. Specifications call for mostly a 6" line installed in a concrete envelope. Two alternates are provided for other methods of installation. DC 12-17

★CEMENT— Portland, Ore.

Award to Pacific Builders Supply Co., 400 N. Thompson St., Portland, $24,750, by city purchasing agent, 208 City Hall, Portland, for 5,000 bbl. domestic cement as required during 1958. Award was determined by drawing. The other identical bids were Dealers Supply Co. and James A. C. Talt & Co.
WB 12-18. Previous report 12-10

★ROAD OIL, ASPHALT— Portland, Ore.

Award to American Bitumuls & Asphalt Co., 5501 N.W. Front Ave., Portland $140,562, by city purchasing agent, 208 City Hall, Portland, for road oils and emulsified asphalt for all bureaus for calendar year 1958. Award was determined by drawing. The other identical bids were Shell Oil and Douglas Oil. The bid of Union Oil was ruled out due to an escalation clause.
WB 12-18. Previous report 12-10

SEWAGE DISPOSAL PLANT—Rainier, Ore.

Construction must start by July 1, 1958, on a sewage disposal plant at Rainier in order for the city to qualify for an allotment of $33,586 from the U.S. Public Health Service. The City Council of Rainier has conferred with a representative of a Corvallis firm concerning construction plans and problems. SC 12-18

★TAXIWAY— Salem, Ore.

Award to Salem Black Top Paving Co., 1815 S. 22nd, Salem, $20,722, by City Council, City Hall, Salem, for resurfacing the north section of the north-south taxiway, involving paving 3,300' of runway with 4" crushed rock and 2½" asphaltic concrete, at McNary Field in Salem.
SP 12-18. Previous report 12-6

STREET WIDENING— Salem, Ore.
(Estimated cost $100,000)

The Oregon State Highway Commission, Salem, has approved the widening of State St. to four lanes, east of 12th St. to the city limits, in Salem. The project will start within three months, according to State Construction Engineer Thomas Edwards. Cost of the work will be shared by the city of Salem and the state, with the state paying 75%. SC 12-18. Previous report 11-12

▲TELEPHONE LINES— Spray, Ore.

Bids received by Blue Mountain Telephone Co., Robert Ashmead, manager, Spray, for construction of 266.01 mi. telephone lines, including 70.57 mi. open wire-pole line, 187.23 mi. open wire-joint use, 2.21 mi. aerial cable-pole line, and 6 mi. service drops, in the vicinity of Long Creek and Monument, Wheeler and Grant counties, Ore.; Oregon 520A. Plans by Robert Welty, consulting engineer, Box 272, The Dalles. Bids opened December 10.

LOW BID: Power Communications, Inc., 8435 S.E. 17th Ave., Portland, $166,966. OTHER BIDS: Cable Construction Co., 1512 Center St., Tacoma, $170,024; Mullen Construction Co., Appleton, Wis., $178,371; Bonneville Construction Co., Box 900, Idaho Falls, $178,593; Belonte Electric Co., Oregon City, $181,633; Irby Construction Co., Jackson, Miss., $196,128.
SC 12-13. Previous report 11-21

★WIRE, CABLE— The Dalles Dam, Ore.

Award to Paranite Wire & Cable Div., 525 N. Tillamook St., Portland, $40,345, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for procurement of wire and cable to be delivered fob Government storage area on the Oregon shore at The Dalles Dam on or before March 1, 1958; CIVENG-35-026-58-63.
WB 12-13. Previous report 11-30

PORT FACILITIES— The Dalles, Ore.

The Port of The Dalles Commissioners have authorized Tudor Engineering Co. of San Francisco, Calif., to conduct a survey leading to recommendations for new facilities and greater utilization of existing facilities at the port. The survey will cover many factors involved in planning port development, including location of facilities, equipment and methods of financing. Survey engineering will be undertaken on a cost-plus basis, with an authorized maximum expenditure of $12,000. ZZ 12-11

CAST IRON PIPE— West Linn, Ore.

Bids will be called soon by City Council, City Hall, West Linn, for two carloads of cast iron pipe required for water main extensions and replacements in the city's water system. Most of the pipe will be 6", according to City Recorder Andy Harila. SC 12-18

WASHINGTON

●DRILLING WELL— Amboy, Wash.

Bids will be opened 3 p.m., December 23, by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, for drilling and casing an 8" well at the site of Chelatchie Prairie Ranger Station, about four miles east of Amboy, Wash., Gifford Pinchot National Forest, Clark County, Wash. Plans with supply officer or with Forest Supervisor, 801 W. 8th St., Vancouver.
WB 12-17

BREAKWATER— Anacortes, Wash.
(Estimated cost $15,000)

As a result of a survey conducted by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, District Engineer Col. R. J. B. Page is recommending to the Chief of Army Engineers in Washington, D.C., that 150' of additional breakwater be constructed in a northeasterly direction from the north end of the south breakwater at the Cap Sante Waterway small boat haven in Anacortes. ET 12-12. Previous report 12-4

Boat Haven Development

SEWERS, SEWAGE TREATMENT PLANT— Arlington, Wash.

Bids will be called in January by City Council, City Hall, Arlington, for installation of a comprehensive storm and sanitary sewer system including a sewage treatment plant. Working drawings are being prepared by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Financial arrangements for the work have been completed.

Costs of the projects involved are as follows: sanitary sewer system, $261,000; sewage treatment plant, $67,900; storm sewers, $61,700; engineering, land acquisition and incidentals, $47,000.
IG 12-18. Previous report 9-18

●DRIVEWAY ALTERATIONS— Blaine, Wash.

Bids will be opened 3 p.m., December 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for driveway alterations at the U.S. Border Station (Peace Arch) at Blaine; Proj. No. SEA-802. Specifications with above office. SP 12-14

FLOATS— Blaine, Wash.

Bids have been rejected and will be readvertised by Port of Bellingham Commissioners, Dock Waterway, Bellingham, for 1,000' of floats for placement at the Blaine port. ET 12-13. Previous report 11-15

■DRIVEWAY ALTERATIONS— Blaine, Wash.

Planholders announced for driveway alterations at the U.S. Border Station (Peace Arch) at Blaine; Proj. No. SEA-802. Bids will be opened 3 p.m., December 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle.

Work includes alterations to existing customs platform and extensions; furnishing and installing cement concrete islands around columns, flush canopy lighting, electric water cooler, handrails; approximately 1,500 sq. ft. cement concrete in driveway alterations.

Planholders: Anderson & Ursin, 201 Sun-

Bldg., Bellingham; Ralph Chisholm, Box 1073, Bellingham; Eiford Co., Box 357, Bellingham; Gilbert Construction Co., 3034 Aaron, Bellingham; Nelson Construction Co., Box 514, Ferndale; Emil Olsen, 2305 South St., Bellingham; Holte Construction, Box 558, Mount Vernon; Pearson Construction Co., Box 337, Bellingham; Baugh Construction Co., 922 Poplar Place; C & R Builders, Inc., 1619 8th Ave. N.; Commercial Co., 121 8th Ave. N.; Cook's Remodeling and Repair, 5718 2nd Ave. N.W.; D. & A. Construction Co., 3008 E. 190th; Jack Fast, 22 Etruria; Glacier Construction Co., 5536 Coniston Road; Lee Construction Co., 3623 Colorado Ave. Of Seattle except as noted.

PD 12-18. Previous report 12-14

SEWAGE SYSTEM, TREATMENT PLANT— Bothell, Wash.

Preliminary surveys have been completed and working drawings will start soon by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, for a sanitary sewage system and sewage treatment plant at Bothell. It is hoped that bids may be called about February, according to W. C. Caldwell, town clerk, Town Hall, Bothell.

Bids were previously received on this project early last summer and were subsequently rejected as too high. Plans and specifications for the work had been prepared by another engineering firm which has since been relieved of all responsibility in connection with the project.

IG 12-18. Previous report 6-29

▲PUMPING ENGINE EQUIPMENT— Camas, Wash.

Bids received by City Clerk, City Hall, Camas, for one 1,000-gal.-per-min. triple combination Class A pumping engine with equipment. Bids opened December 9. BIDS: American La France, Elmira, N.Y., $19,900; Howard-Cooper Corp., 5821 N.E. Glisan, Portland, Ore., $21,850; Crown Coach, Los Angeles, Calif., $21,902; Feenaughty Machinery Co., 112 S.E. Belmont, Portland, $22,435. SP 12-13. Previous report 11-19

PARKING LOT— Chehalis, Wash.

Construction underway by Pakar Construction Co., 1982 Market, Chehalis, on an 100'x112' blacktopped off-street parking lot at the corner of Boistfort St. and Washington Ave. in Chehalis, for Coffman-Dobson Branch of the National Bank of Washington, 861 Market, Chehalis. The new 30-car capacity lot will be enclosed on three sides by cyclone fencing. SC 12-18

★GRADER— Ephrata, Wash.

Award to Ferris Equipment Co., E. 3823 Trent Ave., Spokane, $13,013 (Huber-Warco 4D75), by Grant County Commissioners, Courthouse, Ephrata, for furnishing a diesel tandem-drive motor grader. Bids opened November 25 and were held under advisement until December 9.

SP 12-13. Previous report 12-3

▲SUPPLEMENTAL LINING— Ephrata, Wash.

Bids received by Bureau of Reclamation, Box 368, Ephrata, for supplemental lining, Block 45 (Sched. A) and Block 18 (Sched. B), five mi. west and two mi. north of Connell, Adams and Franklin counties, Wash.; Spec. No. 117C-479. Bids opened December 13 (extended from December 12). LOW BIDS—SCHED. A: Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata, $81,355; Otis Williams & Co., 319 W. Lewis, Pasco, $91,145; L. D. Shilling Co., Inc., Box 1637, Moses Lake, $93,518. SCHED. B: Burd & Bush, Box 96, Ephrata, $8,131; L. D. Shilling, $9,717; Otis Williams & Co., $10,135. Government estimate, $85,195, $8,766.

SP 12-14. Previous report 11-21

●TRANSMISSION LINES— Ephrata, Wash.

Bids will be opened 2 p.m., January 15, by Grant County Public Utility District, 30 C S.W., Ephrata, for construction of two 230-kva steel tower transmission lines from Priest Rapids dam to the BPA Midway substation located near Vernita, a distance of approximately 7 miles. Specifications with above office; with AGC offices in Seattle, Spokane and Portland, Ore.; Spokane Construction Council office, and the Wenatchee Construction Council office.

The parallel lines will be erected on the Grant County side of the river from Priest Rapids to the point where it crosses the Columbia River at Midway. The construction area is accessible from the recently completed Highway 11A from Priest Rapids to the Vernita ferry. SC 12-17

★CRUSHED STONE STOCKPILING— Ephrata, Wash.

Award to Frank G. Bauine, Box 84, Yardley, $18,200, by Grant County Commissioners, Courthouse, Ephrata, for production and stockpiling of approximately 14,000 ton special base course and 6,000 ton top course crushed stone surfacing at the Mordhurst pit site about 7 mi. northwest of Ephrata.

SC 12-18. Previous report 12-12

▲EARTH LINING— Ephrata, Wash.

Bids received by Bureau of Reclamation, Box 368, Ephrata, for earth lining lateral W20, Station 414+75 to Station 562+40, Block 89, about 7 mi. south of Ephrata, Grant County, Wash.; Spec. No. 117C-480. Bids opened December 17. LOW BID: D. A. Whitley, N. 2401 Division, Spokane, $57,970. OTHER BIDS: L. D. Shilling Co., Inc., Box 1637, Moses Lake, $65,455; J. W. Hardison, Box 48, Yakima, $75,110; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata, $75,448; Otis Williams, Box 1193, Kennewick, $78,695. Government estimate, $87,510.

Work to include the following—(a) Excavating the bottom of the lateral and reblending suitable coarser materials, removed in the required excavation, with select fines obtained from borrow. The bottom of the lateral within the pay lines shown on the drawing for excavation and earth lining will require combing to expose any loose rock over 5" in size, and removing and disposing of such rock. After the first layer has been blended and compacted, successive layers consisting of the select fines and coarse materials will be placed, blended and compacted. The existing lining in the bottom is of variable thickness. The existing bottom width of the lateral varies between about 32' and 34'. (b) Refilling existing exploratory trenches in the lateral.

Quantities: 47,000 c.y. common excavation from lateral; 10,000 c.y. excavation from borrow; 60,000 c.y. mi. overhaul; 47,000 c.y. compacted earth lining; 135 c.y. compacted refill of existing trenches.

SP 12-18. Previous report 11-22

★WASTEWAY, STRUCTURES— Ephrata, Wash.

Award to Duncan Construction Co., Box 582, Moses Lake, $6,493, by Bureau of Reclamation, Box 368, Ephrata, for EL20J4, Block 41, and EL29ZE wasteway, Block 42, Columbia Basin Project, Grant County, Wash., about 7 mi. south and 6 mi. north and east of Moses Lake; Spec. No. 117C-471.

Work to include earthwork for about ½ mi. open wasteway with 2' bottom width; earthwork for and construction of structures along the open wasteway, including drainage inlet, concrete drop, constant head orifice turnout, check and pipe inlet, and road crossings; earthwork for and construction of about 236' of 12" concrete pipe and corrugated metal pipe wasteway structure, including a double pipe stand and two air vents. Quantities: 1,700 c.y. excavation for wasteway and structures; 15 c.y. coarse gravel protection; 75 c.y. compacting backfill about structures; 75 c.y. puddling backfill about structures; 16 c.y. concrete; 24 bbl. cement; 311' reinforced concrete culvert pipe; 44' corrugated metal pipe.

SP 12-18. Previous report 11-22

★GRAVEL LINING, STRUCTURE ALTERATION— Ephrata, Wash.

Award to Knapton & Yearout, Star Route, Moses Lake, $5,672, by Bureau of Reclamation, Box 368, Ephrata, for gravel lining and structure alteration, Block 42, and constant head orifice turnout, Block 43, Grant County, about 10 to 15 mi. southeast of Moses Lake, Wash.; Spec. No. 117C-473.

SP 12-18. Previous report 11-22

GATE— Esquatzel Diversion Dam, Wash.

Bids will be called in January or February by Bureau of Reclamation, L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., for furnishing one 32'x20' radial gate including embedded metal work for the Esquatzel Diversion Dam, Columbia Basin Project, Wash. Estimated weight is 45,000 lb. DM 12-13

●POWERPLANT— Everett, Wash.

Bids will be opened 11 a.m., December 30, by Snohomish County Commissioners, Courthouse, Everett, for one six-cylinder gas power plant, complete with all accessories and kits for installation on a 1950 EQ Mack truck for use by Snohomish County Road District No. 1. Specifications with purchasing agent, Courthouse. Date of delivery to be stated, price quoted to be fob Arlington. HH 12-17

●TRACTOR DOZER— Everett, Wash.

Bids will be opened 10 a.m., December 23, by John L. Sugars, city clerk, City Hall, Everett, for furnishing one tractor dozer with delivery to be made by December 31. Specifications with above office.

Tractor 74" gauge; H.D. 11 A.C.-6D Caterpillar or equal; dozer blade—heavy duty moldboard, minimum length 9'7"; cutting blade—reversible. HH 12-17

▲SANITARY SEWER— Everett, Wash.

Bids received by Everett School District No. 2, Auditorium Bldg., Everett, for construction of a sanitary sewer, involving about 1,400' of 10" pipe, 5 manholes and one highway undercrossing, to serve the Roosevelt Elementary School south of Everett. Bids opened December 16. LOW BID: Industrial Sewer Construction Co., 2556 11th Ave. W., Seattle, $12,178. OTHER BIDS: Pacific Concrete Products, 8107 Highway 99, Everett, $12,284; Matt Malaspina, 1901 23rd S., Seattle, $12,556; Harold Kaeser Co., 3629 34th S., Seattle, $13,520; Excavators, Inc., 5756 29th N.E., Seattle, $13,986; Dave Ratzlaff, Everett, $14,193; Bay Enterprises, Inc., 1155 Ellis, Bellingham, $15,511; Harold E. Olds, 3111 N. 24th, Tacoma, $20,872.

HH 12-18. Previous report 11-30

▲NAVIGATION AID— Fisher, Wash.

Two bids received by 13th Coast Guard District, 618 2nd Ave., Seattle, for removal of existing aid to navigation and construction of a new aid at Fisher Dock, Fisher, Wash.; FS-1687. Bids opened December 16. ONLY BIDS: General Construction Co., 4850 N.W. Front, Portland, Ore., $1,191 (item 1), $1,483 (item 2, alternate); Palmberg Construction Co., Box 991, Astoria, Ore., $2,250, $2,250. SP 12-17. Previous report 12-3

●WATER WELL—Jefferson County, Wash.

Bids will be opened 2 p.m., January 3, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for a water well at Fairmount Substation, approximately one mi. south of Port Discovery Bay on the west side of U.S. Highway No. 101, Jefferson County, Wash.; Inv. No. 8604. Specifications with above office. SP 12-17

WEST SIDE HIGHWAY EXTENSION— Kelso, Wash.

Kelso officials have been notified by Washington State Highway Commission in Olympia that it plans to extend the route of West Side highway into Kelso for a connection with the Cowlitz Way bridge. The state will take over the route in west Kelso at the intersection with Fishers Lane, which is the city limits, and 1st Ave., north on 5th to a junction with the bridge approach. SC 12-13

●RADIO COMMUNICATIONS EQUIPMENT— Lake Stevens, Wash.

Bids will be opened January 6 by Board of Commissioners, Snohomish County Fire Protection District No. 8, Lake Stevens, for three mobile transmitters, three mobile receivers and one base station. Specifications with clerk of the board, above address. HH 12-13

●VOLTAGE STABILIZERS— Mead, Wash.

Bid opening extended from December 12 to 2 p.m., December 19, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Port-

land, for furnishing and delivering two voltage stabilizers fob Mead; Inv. No. 8506. SP 12-18. Previous report 11-26

●FIRE TRUCK— North Bend, Wash.

Bids will be opened 8 p.m., January 15, by King County Fire Protection District No. 38, Clayton Evans, district secretary, Route 1, North Bend, for furnishing a 750 gpm fire truck and truck chassis. Specifications with the secretary. SC 12-14

▲PARKING LOT— Olympia, Wash.

Bids received by Lloyd K. Nelson, director, Department of General Administration, 218 General Administration Bldg., Olympia, for construction of a parking lot and removal of three residences in Olympia. Bids opened December 11. BIDS: Robert Baker, 2945 S. Quince, Olympia, $3,960; Chuck Allen, Route 12, Olympia, $5,025; Cascade Olympic Construction Co., Route 2, Box 131, Shelton, $5,950; J. D. Dutton, Route 6, Olympia, $7,840. DE 12-13. Previous report 12-3

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids will be opened 10 a.m., December 31, by Washington State Highway Commission, Transportation Bldg., Olympia, on eight highway construction projects. Plans and specifications with engineering department, above address. $2 charge. Certified check, cashier's check or bid bond 5%.

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. I-001-2(55).

Quantities: 7,270 c.y. common excavation, borrow; 38,700 ton select roadway borrow; 9,600 c.y. top soil; 340 ton asphalt cement; 2,100 c.y. crushed cover stone; 7,040 bbl. portland cement; 79,000 sq. yd. cement treated base; 13,810 ton asphaltic concrete; 172,560 sq. yd. cement concrete pavement; 1,100 c.y. concrete; 249,740 lb. steel reinforcing bars; 66,193' cement concrete girder; 15,474' cement concrete curb; 51,511' cement concrete curb, gutter; 4,422' asphaltic concrete curb; 3,995' precast traffic curb; 115' iron pipe; 3,600' metal pipe; 30,594' concrete pipe; 16,743' beam guard rail; 1,332 guide posts; 1,040 sq. yd. precast concrete slope protection.

BRIDGE, Snohomish River—Constructing steel truss bridge with reinforced concrete box girder approaches on 0.210 mi. SSH No. 1-A, Snohomish County; FAS No. S-SG-0202(5).

Quantities: 2,555 c.y. concrete; 183,000 lb. steel reinforcing bars; lump sum for approach spans superstructure (about 1,860 c.y. concrete and 510,500 lb. steel reinforcing bars); 1,593' standard bridge rail; two lump sum bids for structural steel (about 640,500 lb.) and for cast steel; 2,200' concrete piling; 16,000' untreated timber piling; 4,700 ton loose riprap; an air beacon.

BRIDGE, SHOOFLY, N.P. Railway Undercrossing-Yacolt Branch—Constructing a steel girder bridge and shoofly on PSH No., Clark County; FAP No. IG-001-1(34).

Quantities: 11,000 c.y. common excavation; 320 c.y. ballast; 610' metal pipe; 578 c.y. concrete; 47,000 lb. steel reinforcing bars; lump sum bid on structural steel (about 23,000 lb.); lump sum bid for cast steel, ornamental railing and other items.

BRIDGES, Perry Creek — Constructing three reinforced concrete box girder bridges on 0.019 mi. PSH No. 9, Thurston County; FAP No. F-007-5(10).

Quantities: 3,500' concrete piling; 570' standard bridge rail; lump sum for three superstructures (about 710 c.y. concrete and 100,500 lb. steel reinforcing bars).

BRIDGE, Taylor Bay—Constructing a precast concrete girder bridge on 0.033 mi. Pierce County road; FAS No. S-0333(2).

Quantities: 1,220' treated timber piling; 7.3 MBM treated timber, lumber; 49 precast concrete deck units; 16 precast concrete bulkhead units; 457' special bridge rail.

CEMENT, ASPHALTIC CONCRETE PAVING, Junction PSH No. 11 to Latah Creek in Spokane — Draining, grading, surfacing and paving with asphaltic concrete and cement concrete on 1.798 mi. PSH No. 2, Spokane County; a State Project.

Quantities: 5,000 c.y. unclassified excavation; 3,260 c.y. common excavation; 25,180 c.y. solid rock excavation; 9,500 ton crushed surfacing; 37 ton asphalt cement; 210 c.y. crushed cover stone; 8,090 ton asphaltic concrete; 9,920 sq. yd. unfinished cement concrete pavement; 4,530' cement concrete curb; 6,290' precast traffic curb; 10 c.y. concrete; 360' metal pipe; 2,460' concrete pipe; 228' beam guard rail; 697 sq. yd. cement concrete sidewalk, driveway.

PAVING, Duke Hill Bridge Vicinity — Clearing, draining, grading, surfacing and paving with asphaltic concrete on 0.218 mi. SSH No. 1-A, Skagit County; a State Project.

Quantities: 26,560 c.y. common excavation, borrow; 2,074 c.y. select roadway borrow, crushed surfacing, mineral aggregate and prime coat aggregate; 9 ton asphalt cement; 530 ton asphaltic concrete; 1,090' asphaltic concrete curb; 287' concrete pipe; 70' metal pipe; 10 guide posts.

SURFACING, Block 79 Feeder Roads—Draining, grading, surfacing on 21.769 mi. Grant County Road; a State Project.

Quantities: 19.3 mi. grading; 23,900 ton crushed surfacing; 1,786' concrete pipe; 1,810' metal pipe; 5,330' right of way fence. DM 12-13

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received by Washington State Highway Commission, W. A. Bugge, director, Olympia, for the following three highway projects. Bids opened December 17.

GRADING, ASPHALTIC CONCRETE PAVING, N.P. Railway to 72nd St. in Tacoma—Clearing, draining, grading and surfacing and paving with asphaltic concrete on frontage roads on 3.359 mi. of PSH No. 1, Pierce County; FAP No. 1-001-3(28) Unit 2.

LOW BIDS: Scarsella Bros., 2207 S. 146th, Seattle, $1,046,735; Lige Dickson, 3315 S. Pine, Tacoma, $1,049,506; Woodworth & Co., Inc., 1200 E. D St., Tacoma, $1,055,599.

GRADING, ASPHALTIC CONCRETE PAVING, Mt. Hope Road to Freeman—Draining, grading, surfacing and paving with asphaltic concrete on 6.904 mi. SSH No. 3-H, Spokane County; a State Project.

LOW BIDS: Inland Asphalt Co., Box 4116, Station B, Spokane, $266,081; Carbon Bros., N. 3430 Cook, Spokane, $283,213; Max J. Kuney Co., 120 N. Ralph, Spokane, $294,521.

STOCKPILING CRUSHED SURFACING, AGGREGATES, Trinidad Vicinity—Stockpiling crushed surfacing and mineral aggregates on PSH No. 10, Grant County; a State Project, involving about 9,860 c.y. stripping quarries and pits and 27,300 ton crushed materials.

LOW BIDS: F. H. DeAtley & Co., Box 648, Lewiston, Idaho, $20,045; J. Arlie Bryant, Inc., and Clarence Braden, 3716 Skyview Drive, Spokane, $24,718 (joint venture); Frank G. Baulne, Inc., Box 84, Yardley, $25,125. DE 12-18. Previous report 12-10

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bid opening extended from December 31 to 10 a.m., January 7, by Washington State Highway Commission, W. A. Bugge, director, Olympia, on two of the seven highway projects previously scheduled for the December 31 opening. Specifications with above office. The remaining five projects will be opened as scheduled.

CEMENT CONCRETE PAVING, Olympia Freeway, 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. I-001-2(55).

Quantities: 7,270 c.y. common excavation, borrow; 38,700 ton select roadway borrow; 9,600 c.y. top soil; 340 ton asphalt cement; 2,100 c.y. crushed cover stone; 7,040 bbl. portland cement; 79,000 sq. yd. cement treated base; 13,810 ton asphaltic concrete; 172,560 sq. yd. cement concrete pavement; 1,100 c.y. concrete; 249,740 lb. steel reinforcing bars; 66,193' cement concrete girder; 15,474' cement concrete curb; 51,511' cement concrete curb, gutter; 4,422' asphaltic concrete curb; 3,995' precast traffic curb; 115' iron pipe; 3,600' metal pipe; 30,594' concrete pipe; 16,743' beam guard rail; 1,332 guide posts; 1,040 sq. yd. precast concrete slope protection.

BRIDGE, Snohomish River—Constructing steel truss bridge with reinforced concrete box girder approaches on 0.210 mi. SSH No. 1-A, Snohomish County; FAS No. S-SG-0202(5).

Quantities: 2,555 c.y. concrete; 183,000 lb. steel reinforcing bars; lump sum for approach spans superstructure (about 1,860 c.y. concrete and 510,500 lb. steel reinforcing bars); 1,593' standard bridge rail; two lump sum bids for structures steel (about 640,500 lb.) and for cast steel; 2,200' concrete piling; 16,000' untreated timber piling; 4,700 ton loose riprap; an air beacon. SP 12-18

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, on the last of six highway projects (bids on one rejected) on which bids were opened December 3.

REINFORCED CONCRETE 74TH AND 72ND STREET UNDERCROSSING—TACOMA—Constructing a reinforced concrete box girder bridge on PSH No. 1, Pierce County; FAP No. 1-001-3(29).

AWARD: Quality Builders, 5220 S. Orchard, Tacoma, $140,673.

DE 12-18. Previous report 12-6

★SEWER, WATER LINES— Poulsbo, Wash.

Awards to Ben H. Browne & Co., Seattle, $4,223 (sewer labor and material), and Hallgren Co., 1252 1st Ave. S., Seattle, $2,116 (water materials only), by City Council, City Hall, Poulsbo, for construction of sewer and water lines in the Virkelyst Addition to Poulsbo. In PCD 11-27 it was erroneously reported that a contract for the work was awarded to Sewer Material and Construction Co. of Seattle for $3,456.

SP 12-18. Previous report 11-27

▲DISTRIBUTION BOXES— Paine AFB, Wash.

Seven bids received by U.S. Air Force, Procurement Office, Paine AFB, for construction of 40 wood distribution boxes with hinged and locked doors in Bldg. 100 at the base; Inv. No. 45-602-58-24. Bids opened December 10. TWO LOW BIDS: A. M. Kueffler, Route 3, Box 123, Everett, $761; Metropolitan Construction Co., 1008 Broadway, Everett, $848. HI BID: Jack Fast, 22 Etruria, Seattle, $1,227.

HH 12-13. Previous report 11-26

▲HANGAR ACCESS REPLACEMENT— Paine AFB, Wash.

Bids received by U.S. Air Force, Procurement Office, Paine AFB, for replacing hangar access, involving removal of deteriorated portland cement concrete pavement in the rear of the Alert Hangar and replacing it with asphaltic concrete pavement together with the required base course; Inv. No. 45-602-58-23. Bids opened December 13. ONLY BIDS: Associated Sand and Gravel Co., 6300 Glenwood Ave., Everett, $4,166; Willar Construction Co., 9709 Greenwood, Seattle, $5,044.

HH 12-17. Previous report 11-26

▲ILAS SUPPORT FACILITIES— Paine AFB, Wash.

Eight bids were submitted to U.S. Air Force, Procurement Office, Paine AFB, for construction of concrete pads and installation of steel conduit and wiring for carrying control and power lines for ILAS equipment at the base; Inv. No. 45-602-58-30. Bids opened December 13. LOW BIDS: Dawson Construction Co., 1015 C. St., Bellingham, $1,982; Lindbrook Construction Co., 21616 Five Corners Road, Edmonds, $1,988; Metropolitan Construction Co., 1008 Broadway, Everett, $2,595.

HH 12-17. Preivous report 12-5

TREATMENT PLANT ADDITIONS— Pasco, Wash.

(Estimated cost $400,000)

Bids will be opened about February 12 by City Council, City Hall, Pasco, for construction of additions to the water treatment plant in Pasco as part of the program to improve and expand water and sewer facilities in the city. Specifications by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis.

when plans are available, deposit will be about $30.

Major mechanical items included in the work are flocculation equipment, filter underdrains and media, filter piping, valves and control, pumping facilities, and instrumentation. About 1,500 c.y. concrete is involved. SP 12-12. Previous report 11-15

●POWER CIRCUIT BREAKERS— Pasco, Wash.

Bids will be opened 10:30 a.m., December 31, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for furnishing and delivering two 14.4-kv, 250-kva, 1200-amp. outdoor power circuit breakers, fob Pasco; Inv. No. 8608. Specifications with above office. SP 12-13

●WELL— Point Roberts, Wash.

Bids will be opened 3 p.m., December 26, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for a new well at the U.S. Border Station, Point Roberts; Proj. No. SEA-964. Specifications with above office. SP 12-14

TRANSFORMER— Radar Pumping Plant, Wash.

Bids will be called soon by Bureau of Reclamation, L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., for furnishing one power transformer with three tank-mounted, station-type lighting arresters on the high-voltage side for Radar Pumping Plant Switchyard, Columbia Basin Project, Wash. Transformer is three-phase, class OA/FA, 8,000/10,000 kva, 115 delta kv to 4.16 Grd Y/2.4 kv. Delivery time is 420 days. DM 12-13

PUMPING UNITS— Sand Hollow Pumping Plant, Wash.

Bids will be called in January or February by Bureau of Reclamation, L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., for furnishing four synchronous motor-drive, horizontal, centrifugal-type pumping units for Sand Hollow Pumping Plant, Columbia Basin Project, Wash. Three units will have capacity of 51 cfs at a total head of 65' and one will have 25 cfs at a total head of 65'. DM 12-13

●SANITARY SEWER— Seattle, Wash.

Bids will be opened 8 p.m., January 6 by Bryn Mawr-Lake Ridge Sewer District, H. G. Rowland, secretary, 11402 Rainier Ave., Seattle for construction of 8,500' of sanitary sewer in LID No. 3. Plans and specifications may be obtained from Collier & Isaac, engineers, 4010 Stone Way, Seattle. Certified check 5%.

Quantities: 8,500' of 6" and 8" concrete or clay pipe; 27 manholes and appurtenances. DM 12-14

SEWER— Seattle, Wash.
(Estimated cost $3,800,000)

Working drawings are underway by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle, for construction of 35 mi. of sewer in Lake City area, Seattle, for Lake City Sewer District, 12721 30th Ave. N.E., Seattle. The trunk line will be constructed of 30" cement concrete sewer pipe, and the lateral lines of 8" to 24" cement concrete sewer pipe. This 1958 construction project will complete the sewers within the Seattle city limits in the Lake City area.
PD 12-13. Previous report 10-4

▲SEWER OUTFALL REPAIR—Seattle, Wash.

Following is the complete list of bids received by Board of Public Works, 512 County-City Bldg., Seattle, for repairing a sewer outfall on 11th Ave. N.W., located 567' south of W. 45th to Salmon Bay Waterway; Ord. No. 86334. Bids opened December 11. BIDS: Willar Construction Co., 9709 Greenwood, $9,736; Harold Kaeser Co., 3629 34th Ave. S., $9,741; Leiter Hockett, 3415 W. 66th, $9,820; Joe Lundberg Construction Co., 3420 13th S.W., $10,411; Pacific Mechanical Constructors, Inc., Lloyd Bldg., $10,940; Larsen Construction Co., Colman Bldg., $11,956; General Construction Co., 3840 Iowa, $12,667; Manson Construction and Engineering Co., 5209 E. Marginal Way, $14,215. All of Seattle.

Quantities: 120' of 72" corrugated metal pipe sewer; 300' fender piles; a 75' concrete post fence; 250 c.y. fill material; 20 ton ¾" minus crushed rock surfacing.
PD 12-13. Previous report 12-12

SEWAGE COLLECTION SYSTEM, DISPOSAL PLANT— Seattle, Wash.
(Estimated cost over $4,000,000)

Construction may be underway in the fall of 1958 on a sewage collection system and disposal plant for Ronald Sewer District, Seattle. Project will include approximately 50 mi. of 8" to 36" sewer pipe, three or four lift stations and a complete primary treatment plant. Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle, have completed profile surveys on most of the public rights of way, and are now conducting surveys on private easements. The general location of the site for the treatment plant has been selected.
PD 12-13. Previous report 10-4

INDUSTRIAL DEVELOPMENT— Seattle, Wash.

Proposed improvements by Port of Seattle, E. H. Savage, president, Pier 68, Seattle, for an industrial development in the Duwamish area, may be changed due to Allied Stores' announcement of plans for a south end shopping center. The port commissioners, who recently authorized acquisition of property held by Andover, Inc., south of the south boundary of Tukwila need this additional acreage as part of the port's plan for a 1,300 acre development for industrial use. The 800 acres south and west of Renton Junction are needed, according to the port, to help bear the cost of channel work and other improvements.

The new shopping center will occupy 160 acres of the 500-acre tract acquired by Andover. The Port of Seattle has planned an estimated $35,000,000 project involving straightening of the Duwamish River to a turning basin near the junction, and improving the sites for industrial uses.
DM 12-13. Previous report 12-12

SUBSTATIONS— Seattle, Wash.

A request from Seattle City Light for a $1,750,000 program involving construction of 15 new substations, was approved by Board of Public Works. The money would come solely from City Light funds. Sites for the stations have not as yet been chosen. DM 12-13

●STEAM GENERATING PLANT— Seattle, Wash.

Bids will be opened 2 p.m., January 21, by Board of Regents, University of Washington, in the office of the business manager, room 209, Administration Bldg., Seattle, for furnishing and erecting a new steam generating unit with continuous steam generating capacity of 100,000 lb. per hour (using pulverized coal), or 130,000 lb. per hour (using natural gas). Plans and specifications with Bouillon & Griffith, consulting engineers, 1411 Fourth Avenue Bldg., Seattle. $75 deposit.

The contract will also include furnishing and installing fans, ducts, accessories, pulverizers, combustion controls and firing equipment. A foundation and a building to house the equipment will be constructed under a separate contract. Bid opening was previously set for August, but was postponed. PD 12-13. Previous report 7-1

●CRUSHED AGGREGATES—Seattle, Wash.

Bids will be opened 10 a.m., December 23, by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for supplying crushed aggregate to the city for a period of one year beginning January 1, 1958. Specifications with above office. DM 12-17

●AIRPORT MARKER FACILITY— Seattle, Wash.

Bids will be opened 3:30 p.m., December 30, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., for construction of an outer marker facility for an instrument landing system, consisting of erection of an 8'x12' type "S" building, a flat steel counterpoise, fencing, antenna poles, access road, power lines and other minor related work, five mi. south of the Seattle-Tacoma Airport, Seattle; Prop. No. 4-58-958. Specifications with above office. Bid bond 10%. SP 12-17

ASPHALTIC CONCRETE, BITUMINOUS PLANTMIX— Seattle, Wash.

All bids rejected and will be readvertised by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing asphaltic concrete and bituminous plantmix for year 1958. Bids opened December 9.
SP 12-17. Previous report 11-9

▲COIL RACKS— Seattle, Wash.

Four bids were received December 16 by Paul R. Hendricks, city purchasing agent, 511 County-City Bldg., Seattle, for furnishing 40 coil racks, 4,000 lb. capacity. Equipment Manufacturing Co., 5245 Pullman Ave., Seattle, were low at $860. High bid was $1,672. PD 12-17. Previous report 11-29

■CRUSHED STONE STOCKPILING— Seattle, Wash.

Planholders announced for furnishing approximately 20,000 c.y. crushed stone surfacing and stockpiling at the Krain County Pit located on S.E. 400th St., about 2½ mi. north of Enumclaw, King County, Wash. Bids will be opened 9:30 a.m., December 23, by King County Commissioners, 402 County-City Bldg., Seattle.

Planholders: Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; Lige Dickson Co., 3315 S. Pine St., Tacoma; Wamberg Co., 7404 S. Tacoma Way, Tacoma; Edinger Gravel Co., Box 283, Kenmore.

Quantities to be furnished are as follows: 12,000 c.y. 1½" minus crushed stone surfacing base course; 8,000 c.y. ¾" minus crushed stone surfacing top course; 4,000 c.y. surplus screenings.
PD 12-18. Previous report 12-7

★LIQUID ASPHALT, CONCRETE PIPE— Seattle, Wash.

Contracts were divided between three bidders for furnishing liquid asphalt and concrete pipe products for the year 1958. Bids were opened December 9 by King County Commissioners, 402 County-City Bldg., Seattle. SP 12-18. Previous report 11-2

★SEWER CONSTRUCTION— Seattle, Wash.

Award to Industrial Sewer Construction Co., 4314 Dayton, Seattle, $1,211 (Goodhue), $1,164 (Haller Lake), by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for side sewer connections at Goodhue and Haller Lake schools.
SP 12-18. Previous report 12-11

★SANITARY FILL— Seattle, Wash.

Awards announced by King County Commissioners, 402 County City Bldg., Seattle, for maintenance of sanitary land fill refuse sites, involving labor, material and equipment for disposal of trash and garbage for sanitary fill on Vashon Island (Contract A), Site 4 at S. 188th and Military Road and Site 5 at S. 352nd and Puyallup Cut-off Road (Contract C), and Site 2 at 117th N.E. and N.E. 60th St. (Houghton) and Site 3 at the north end of Bellevue Airport runway near S.E. 28th and 148th S.E. (Contract D), King County. AWARDS—CONTRACT A: Earl J. Hausman, Route 1, Box 104, Vashon, $124 per month. CONTRACT C: Ole Hendrickson, 12462 Roseburg Ave. S., Seattle, $775 per month. CONTRACT D: John Patricelli, 1534 32nd Ave. S., Seattle, $3,990 per month.
SP 12-18. Previous report 12-5

■DRAINING, GRADING, SURFACING— Seattle, Wash.

Planholders announced for draining, grading and surfacing with class B asphaltic concrete on 2.97 mi. of N.E. 70th (116th Ave. N.E.-Redwood Bellevue Road), King County, and for clearing, draining, grading, curbing, sidewalks and asphaltic concrete paving on 0.61 mi. of 15th Ave. S.W. (W. Roxbury to S.W. 106th St.) in White Center, King County. Bids will be opened 9:30 a.m., January 13, by King County Commissioners, 402 County City Bldg., Seattle.

Planholders—15TH AVE. S.W.: Northwest Asphalt Co., 7343 E. Marginal Way; Lake City Gravel and Materials, Inc., 10728 Bothell Way; Anderson & Akers, 4756 Fauntleroy;

Western General Construction Co., 8902 14th Ave. S.W.; L. L. Newburn, 6262 14th Ave. S.; J. E. Work & Co., 1040 159th Place S.E., Bellevue; Washington Asphalt Co., 309 W. 39th. N.E. 70TH ST.: Excavators, Inc., 5656 29th N.E.; Lake City Gravel and Materials, Inc., L. L. Newburn; J. E. Work & Co.; Washington Asphalt; Kent & Tucker, 1431 134th N.E., Bellevue. Of Seattle except as noted. PD 12-18. Previous report 12-7

▲GROUND CONTROL APPROACH— Seattle, Wash.

Seven bids received by Boeing Airplane Co. at Plant No. 2, Seattle, for construction of a ground control approach facility at the south end of Boeing Field, to replace existing temporary facility. Bids opened December 17. BIDS: T. W. Traverso, 11180 E. Marginal Way, $14,989; E. F. Shuck, 535 Pontius, $15,212; Hugh Ferguson, 1927 1st Ave. S., $15,600; C & R Builders, 1619 8th Ave. N., $15,900; K. N. Abelson, 7132 35th Ave. S.W., $17,264; John Hopkins, Box 247, Mercer Island, $17,500; Cawdrey & Vemo, 3601 Fremont. Of Seattle except as noted. PD 12-18. Previous report 12-14

▲FIRE HYDRANTS— Seattle, Wash.

Three bids received December 17 by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 25 fire hydrants. BIDS: Pacific States Cast Iron Pipe Co., Smith Tower, Seattle, $3,473; Pacific Water Works Supply Co., 2900 1st S., Seattle, $3,575; Ludlow Valve Manufacturing Co., 1252 1st S., Seattle, $3,968.
DM 12-18. Previous report 12-6

▲STREET SWEEPERS— Seattle, Wash.

Only one bid that of Columbia Equipment Co., 5030 1st S., Seattle, $28,914, was submitted December 17 to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing two mechanical street sweepers.
DM 12-18. Previous report 12-5

● SHEET STEEL PILING— Seattle, Wash.

Bids will be opened 10 a. m., December 27, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 85 ton new sheet steel piling. Specifications with above office. DM 12-18

● ELECTRIC WIRE— Seattle, Wash.

Bids will be opened 10 a. m., January 7, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 16,000' of wire, 500 CMC, single conductor, 600 volt. Specifications with above office. DM 12-18

■ TRANSMISSION LINE— Shelton, Wash.

Planholders announced for construction of the 27.3 mi. Shelton-Fairmount 115-kv. line No. 2, Mason County, Wash.; Inv. No. 8582. Bids will be opened 3 p.m., January 6, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland. Plans with above office. $25 deposit.

Planholders: Tyee Construction Co., 1901 23rd Ave. S., Seattle; Power City Electric Co., N. 920 Howard St., Spokane; John M. King Co., 1601 Taylor Way, Tacoma (E. K. Brown, P.O. Box 79, The Dalles); Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Collins Electrical Co., Inc., P.O. Box 1609, Stockton, Calif. (P.O. Box 334, Wasco); W. L. Ridge, E. 3122 Sharp Ave., Spokane; Larned Construction Co., 2124 N. Waterworks, Spokane; Nichols Construction Co., P.O. Box 336, Grandview; Commonwealth Electric Co., P.O. Box 2067, Lincoln, Nebr.; Parker-Schram, 201 Builders Exchange Bldg., Portland; Mattoon Co., 17950 S.W. Old River Road, Oswego, Ore.; R. C. Hughes, 2105 N. Airport Way, Spokane; Power Line Erectors, Inc., 2018 N. Waterworks, Spokane; Ritter Construction Co., 1220 S.W. Stark St., Portland; Sierra Electric Co., 6015 N.E. Mallory, Portland; Service Electric Co., 12304 32nd N.E., Seattle.
WB 12-14. Previous report 11-13

▲EXPLORATORY DRILLING— Snake River, Wash.

Bids received by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for exploratory drilling, Lower Monumental Lock and Dam Site, Snake River, Franklin and Walla Walla counties, Wash.; CIVENG-45-164-58-26. Bids opened December 17.

Six bids received. LOW BIDS: Boyles Bros. Drilling Co., 1321 S. Main St., Salt Lake City, Utah, $111,666; Cannon Diamond Drilling Co., 1209 E. Rosecrans Ave., Box 669, Compton, Calif., $118,915; Western Piling and Equipment Co., 1545 Bay St., Tacoma, $122,-105. Government estimate, $125,748.
SP 12-10. Previous report 12-10

SEWER IMPROVEMENT—Snohomish, Wash.

A field survey will be made by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle, on proposed construction of additional sewer collection systems, interceptor trunk lines, pumping stations and a lagoon-type sewage treatment plant in Snohomish. Working drawings will be started following the survey. Plans involve division of the city into approximately eight drainage areas, with provision for future expansion. Financing of the project may be through issuance of revenue bonds.
PD 12-12. Previous report 9-25

BASEBALL PARK— Spokane, Wash.

A site at the Interstate Fairgrounds east of the Spokane city limits has been selected for construction of a new 10,000-seat ball park. It had previously been decided to remodel Ferris Field, former home of the Spokane baseball team, but the expense of such a project would exceed the amount which can feasibly be provided by the city and county. Architects Culler, Gale, Martell & Norrie, Realty Bldg., Spokane, were preparing plans for the Ferris Field work.
SC 12-13

● ELECTRIC MOTOR— Sunnyside, Wash.

Bids will be opened 2 p. m., December 26, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering an electric motor fob Sunnyside, Wash.; Inv. No. (D) C-13,701-A. Specifications with above office. SP 12-17

BRIDGES— Tacoma, Wash.

A public hearing will be held at 10 a.m., January 14 in the auditorium of the Public Library, 1102 S. Tacoma Ave., Tacoma, to consider the application made by Washington State Highway Department to the U.S. Corps of Engineers for approval of plans and locations of four bridges across Puget Sound. The structures would form part of a proposed route extending from Seattle to Bremerton by way of Vashon Island with a subsidiary connection to Bainbridge Island.

Types and clearances of various bridges are as follows: (1) floating bridge, East Passage, (2) east approach, East Passage, 400' horizontal clearance, 66.5' MHHW and 77.9' MLLW minimum vertical clearance, 44' minimum water depth at MLLW, (3) west approach, East Passage, three openings east to west, one of which will have 500', 122', 144.4' and 125', a second with 500', 137', 148.4', 29' and a third with 400', 147', 158.4', 14.5' (4) suspension bridge, Colvos Passage, 1,000', 179.6', 191', 158' (5) suspension bridge, Rich Pasage, 600', 204', 215.6', none, (6) fixed truss with fill and trestle approaches, Sinclair Inlet, 150', 25', 36.7', 20'. DM 12-13

▲DRAINAGE DITCH— Tacoma, Wash.

Twelve bids were submitted to Port of Tacoma, Archie E. Blair, secretary, transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for excavation of 11,150' of drainage ditch and installation of a 48" concrete culvert. Bids opened December 11. LOW BID: Scarsella Bros. Excavating Contractors, 2207 S. 146th, Seattle, $21,520.
SP 12-13. Previous report 12-5

▲SNOW PLOW— Tacoma, Wash.

Bids received by Pierce County Commissioners, 500 Courthouse, Tacoma, for furnishing two 10', non-reversible, trip blade type snow plows with cutting edge ½"x6", 10 gauge material, hitch with underframe mounting, hand hydraulic lifting device, adjustable shoes. Bids opened December 16. LOW BID: Air Mac, Inc., 3836 4th Ave. S., $1,712. OTHER BIDS: Feenaughty Machinery Co., 1028 6th Ave. S., $1,714; Totem Equipment Co., 3706 Airport Way, $1,720 less 2%CPD; Western Tractor and Equipment Co., 745 Lucile, $1,960; Caldwell Machinery Co., 4614 8th Ave. N.W., $2,070. All of Seattle.
SP 12-18. Previous report 12-4

▲SILICON RECTIFIERS—Vancouver, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for furnishing and delivering fob Eavan Spur, Vancouver, 20 silicon rectifiers, Inv. No. 8597. LOW BIDS—ITEM 1: General Electric Co., Syracuse, N.Y., $205; R. V. Weatherford Co., Glendale, Calif., $240. ITEM 2: Westinghouse Electric Corp., Portland, $955; General Electric Co., $1,205. Bids opened December 10.
WB 12-13. Previous report 11-27

★TERMINAL CONNECTORS— Vancouver, Wash.

Award to Graybar Electric Co., 809 N.W. Flanders St., Portland, $1,665, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, terminal connectors; Inv. No. 8580. Bids opened November 21.
WB 12-13. Previous report 11-6

★CONDUCTOR HARDWARE— Vancouver, Wash.

Awards by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Eavan Spur, Vancouver, conductor hardware; Inv. No. 8573. AWARDS: The Porcelain Insulator Corp., Lima, N.Y., (Item 1) $543, (5) $96; Ohio Brass Co., Mansfield, O., (2) $416, (9) $128; Schmitt Steel Co., 2765 N.W. Nicolai St., Portland, (3) $3,900, (6) $270, (7) $649, (8) $2,460; Don D. Fleming Co., Inc., San Francisco, (4) $135.
WB 12-13. Previous report 11-19

● TERMINAL BLOCKS— Vancouver, Wash.

Bids will be opened 10 a. m., December 31, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering 500 terminal blocks fob Eavan Spur, Vancouver, Wash.; Inv. No. 8614. Specifications with above office. SP 12-17

● ROAD RESURFACING, WIDENING— Vashon Island, Wash.

Bids will be opened 9:30 a. m., January 13, by King County Commissioners, 402 County-City Bldg., Seattle, for construction of a third lane and resurfacing existing pavement with asphaltic concrete of 1.2 mi. of Vashon Island Boulevard (Ferry Dock to top of hill) on Vashon Island. Plans and specifications with county engineer's office, 905 County-City Bldg. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 14,310 c.y. excavation; 7,410 c.y. common borrow; 5,300 ton selected roadway borrow; 3,000 ton crushed stone surfacing top, base course; 3,000 ton class "B" asphaltic concrete; 250' asphalt concrete curb; 19 ton asphalt cement MC-3 tack and prime coat; 168' of 12"" plain concrete culvert pipe; 635' of 18" to 24" standard reinforced concrete culvert pipe; relay 1,216' of 12" concrete culvert pipe; 12 standard concrete catch basins; 17 metal guide posts; removal of 345 sq. yd. cement concrete pavement. PD 12-13

▲PUMPING UNIT— Walla Walla, Wash.

Eight bids were submitted to City Council, City Hall, Walla Walla for providing a deep well pumping unit for city well No. 5 recently completed in the Bryant and Sturm area, Walla Walla. LOW BIDS: Ault Irrigation Equipment, 1020 W. Pine, Walla Walla, $18,726; General Machinery Co., E. 3500 Riverside, Spokane, $19,503; Pump, Pipe and Power Co., 265 N. Hancock, Portland, Ore., $19,975. SC 12-14

PUMPING UNITS— White Bluffs, Wash.

Bids will be called January or February by Bureau of Reclamation, L. N. McClellan, chief engineer, Building 53, Denver Federal Center, Denver, Colo., for furnishing two motor-driven, horizontal, centrifugal-type pumping units, each with a capacity of 20 cfs at a total head of 102' for the initial

BUREAU OF RECLAMATION LISTS 24 MAJOR PROJECTS
Scheduled for Bid Call Within Next Three Months

Twenty-four major construction projects will be among bid invitations issued by the Bureau of Reclamation during December, January and February. Bids will be called soon on the transmission line from Fort Peck through Glendive, Mont. to Bismarck, N. Dak., and the 1.5 mi. of power distribution line near Irwin, Idaho. In January or February invitations will be issued for the earthfill Wasco Dam on Clear Creek about 35 mi. west of Maupin, Ore.; on the indoor type Radar pumping plant south of Othello, Wash. and for completion of the water system near Hungry Horse, Mont. for further information on these projects, contact L. N. McClellan, chief engineer of the Bureau, Building 53, Denver Federal Center, Denver, Colo., referring to the project by title and number.

BID CALLS EXPECTED IN DECEMBER

TRANSMISSION LINE, Fort Peck-Dawson County-Bismarck (12-1)—Fort Peck and Missouri River Basin Projects, Montana and North Dakota. From Fort Peck through Glendive, Mont. to Bismarck, N. Dak. Work will consist of clearing rights-of-way, furnishing and installing fence gates, constructing footings and furnishing and erecting steel towers for about 309 mi. of single circuit, 230 kv transmission line. Completion time 900 days.

Quantities: 51,000 c.y. excavation for footings; 11,000 c.y. excavation from borrow; 16,400 c.y. concrete, including 8 caisson-type footings; 820 ton reinforcing steel; 9,175 ton steel towers; 13,000' drive treated wood piles.

Bids will be called by chief engineer, Denver, Colo.

LATERAL LINING, Block 89 (12-6)—Columbia Basin Project, Wash. Southeast of Ephrata, Wash. Place compacted blended earth lining in about 14,500' of the W20 lateral. Completion time 75 days.

Quantities: 47,000 c.y. excavation from lateral; 10,000 c.y. excavation from borrow; 60,000 mi. c.y. overhaul; 47,000 c.y. compacted blended earth lining; 130 c.y. compacted refill of existing trenches.

Bids will be called by project manager, Ephrata, Wash.

LATERALS, PUMP UNIT, Blocks 46 and 49 (12-7)—Columbia Basin Project, Wash. Vicinity of Othello, Wash. Earthwork and structures for about 5,500' of open ditch lateral extensions, new open ditch laterals and wasteways, furnish and install second pumping unit and motor for the EL81.9 pumping plant. Completion time 75 days.

Quantities: 3,100 c.y. lateral and wasteway excavation; 100 c.y. borrow excavation; 150 c.y. excavation and backfill of trench for pipe chute; 1,250 c.y. structure excavation; 1,150 c.y. backfill about structures; 300 c.y. compact backfill about structures; 300 c.y. puddling backfill about structures; 5,850 lb. reinforcing steel; 315' of 6" and 15" concrete pipe; 444' of 15", 18", 21" precast concrete pipe; 178' of 15" and 18" HC50 concrete pipe; 1,050 lb. pipe and miscellaneous metalwork; 10 steel slide gates; 13, 15", 18" and 21" cast iron slide gates; pump and motor 6.5 at 20' turbine type.

Bids will be called by project manager, Ephrata, Wash.

LATERAL, Block 15 (12-8) — Columbia Basin Project, Wash. West of Eltopia, Wash. Earthwork and structures for about 600' of the 2' bottom width PE47Q1A open ditch lateral, including modifications to four existing structures. Completion time 65 days.

Quantities: 1,130 c.y. borrow excavation; 140 c.y. structure excavation; 120 c.y. backfill; 150 c.y. compact backfill; 6 c.y. concrete in structures; 460 lb. reinforcing steel; 97', 15" concrete pipe; one 15" cast iron slide gate; one 18"x12" steel slide gate.

Bids to be called by project manager, Ephrata, Wash.

DRAINS, Block 11 and 49 (12-9)—Columbia Basin Project, Wash. South of Othello, Wash. Earthwork and structures for the DPE27, DPE227, DPE227A, DPE228, DPE221A1 deep open ditch drains, totaling about 1.5 mi. Completion time 120 days.

Quantities: 17,600 c.y. common excavation; 1,230 c.y. rock excavation; 460 c.y. excavation for structures; 350 c.y. backfill about structures; 110 c.y. compact backfill about structures; 120 lb. reinforcing steel; 162' of 18" and 24" asbestos bonded corrugated metal pipe; 126' of 12" corrugated metal pipe.

LATERAL LINING, Blocks 85, 86, 87 (12-10)—Columbia Basin Project, Wash. About 18 mi. northwest of Othello, Wash. Place compacted blended earth lining in about 2.4 mi. of laterals. Completion time 65 days.

Quantities: 40,000 c.y. excavation; 29,000 mi. c.y. overhaul; 21,000 c.y. compacted blended earth lining.

Bids will be called by project manager, Ephrata, Wash.

STRUCTURE MODIFICATIONS, Enterprise Powerplant (12-15)—Klamath Project, Ore. Near Klamath Falls, Ore. Modify the powerplant to remove all power generating facilities and rehabilitate the remaining structure to serve as a control drop. Completion time 60 days.

Quantities: 10 c.y. fill cavity under forebay paving by pressure grouting; 60 sq. yd. lining sloped wall of forebay; 125 c.y. fill hole under afterbay with rock or sand and gravel; 28 c.y. concrete in afterbay floor; remove a 20'x28' corrugated metal building and an 18'x20' shed; remove exciter, generator, turbine, governor and switching equipment.

Bids will be called by chief engineer, Denver, Colo.

STRUCTURE MODIFICATION, Block 421 (12-16)—Columbia Basin Project, Wash. Southeast of Moses Lake, Wash. Modify two check structures on the EL29 lateral.

Completion time 65 days.

Quantities: 4 c.y. concrete; 400 lb. reinforcing steel; 1,350 lb. miscellaneous metalwork.

Bids will be called by project manager, Ephrata, Wash.

VHF RADIO COMMUNICATION SYSTEM, Roza and Kennewick Divisions (12-18)—Yakima Project, Wash. Near Yakima, Wash. Furnish and install one relay, two fixed radio stations and five mobile sets. No houses will be required. Completion time 90 days.

Bids will be called by chief engineer, Denver, Colo.

DISTRIBUTION LINE, Palisades Dam (12-21)—Palisades Project, Idaho. Near Irwin, Idaho. Construct 1.5 mi. of 12.5 kv wood pole distribution line with two communication cables to be underbuilt. Completion time 120 days.

Bids will be called by chief engineer, Denver, Colo.

BID CALLS EXPECTED IN JANUARY AND FEBRUARY

DAM (12-25)—Wapinitia Project, Ore. Construct 42' high earthfill Wasco Dam, containing about 45,000 c.y. material, with crest length of 390', and appurtenant structures. On Clear Creek about 35 mi. west of Maupin.

Chief engineer to issue invitations.

PUMPING PLANT, TRANSMISSION LINE (12-27)—Columbia Basin Project, Wash. South of Othello. Construct indoor type Radar Pumping Plant involving erection of reinforced concrete substructure, a superstructure of structural steel frame with uninsulated metal panel siding and a crane runway for a 15 ton traveling crane, install five electrically driven horizontal pumping units of 146 cfs total capacity, and make provisions for a future installation of four electrically driven horizontal pumping units of 241 cfs total capacity. Work will also include constructing a 115 kv tap line from the Bonneville Power Administration Scooteney-Eagle Lake 115 kv tap line about 2.5 mi. to the pumping plant.

Chief engineer, Denver, Colo. will issue invitations.

LATERALS (12-29) — Minidoka Project, Idaho. Near Rupert, Idaho. Earthwork and structures for about 3 mi. open ditch laterals with capacities up to 10 cfs, from four wells.

Regional director, Boise, will issue invitations.

WASTEWAY (12-30) — Columbia Basin Project, Wash. In Blocks 72 and 73 near Quincy, Wash. Earthwork and structures for the W35.8 and W35.9B2 wasteways, totaling about 1,600' in length. Work will also include constructing a weir and modifying a division box on the W38C3 lateral and constructing checks on the W27 and W27B laterals.

Project manager, Ephrata will issue invitations.

WASTEWAY (12-31) — Columbia Basin Project, Wash. In Block 42 southeast of Quincy. Earthwork and structures for the EL33 wasteway, about 1,400' long. Work will include modifying division and weir boxes.

Project manager, Ephrata, Wash. to issue invitations.

WASTEWAY (12-32) — Columbia Basin Project, Wash. In Block 45, north of Othello. Earthwork and structures for EL68K wasteway about 1,200' long. Work will include moving two structures.

Project manager, Ephrata, will issue invitations.

DRAINS (12-33)—Columbia Basin Project, Wash. In Block 86 northeast of Smyrna. Earthwork and structures for the DW272A, DW272A1, DW66.7, DW69F open ditch drains, totaling about two mi.

Project manager, Ephrata, Wash. will issue invitations.

DRAIN (12-34)—Columbia Basin Project, Wash. In Block 49 southwest of Othello. Earthwork and structures for DPE217B deep, open ditch drain about 2,200' long.

Project manager, Ephrata, Wash. will issue invitations.

WELLS (12-36)—Michaud Flats Project, Idaho. Near American Falls. Drilling and casing three irrigation water supply wells.

Regional director, Boise, Idaho will issue invitations.

TRASH COLLECTING FACILITIES (12-38)—Yakima Project, Wash. Near Prosser, Wash. Furnish and install traveling trash racks and conveyor in the forebay of the Chandler Powerplant consisting of about 100,000 lb. of machinery parts and structural steel and some concrete work.

Chief engineer, Denver, Colo. will issue invitations.

WATER SYSTEM COMPLETION (12-40)—Hungry Horse Project, Mont. Near Hungry Horse, Mont. Construct transmission line extensions, modify piping and install a pumping unit for completion of water system at Hungry Horse Government Community.

Regional director, Boise, Idaho will issue invitations.

CEMETERY RELOCATION (12-43)—Rogue River Basin Project, Ore. Near Ashland, Ore. Relocate Hill Cemetery from the Emigrant Reservoir area.

Regional director, Boise, Idaho will issue invitations.

BUILDINGS (12-46) — Columbia River Basin Project, Wash. Construct shop, residences and service buildings for Wahluke Watermaster Headquarters in Block 20, south of Othello.

Project manager, Ephrata, Wash. will issue invitations.

FENCING (12-50)—Columbia Basin Project, Wash. Construct additional protective fencing for pumping plant installations at various locations on the project.

Project manager, Ephrata, Wash. will issue invitations.

installation at White Bluffs Pumping Plant No. 2, Columbia Basin Project, Wash.
DM 12-13

DRAINAGE CHANNELS— Yakima, Wash.
(Estimated cost $873,000)

Voters in seven lower Yakima Valley irrigation districts have approved a contract with the federal government involving construction of 19 outlet drainage channels totaling 44 mi. to conduct irrigation water back to the Yakima River. The elections on the contract were held December 10 in six small districts and the Sunnyside District, all under the Sunnyside Board of Control: Granger, Outlook, Snipes, Grandview, Prosser and the Sunnyside District which delivers water to the Benton City area.

About $873,000 will be obtained from the government. The Roza Irrigation Project will bear $523,800, or 60% of the cost. Sunnyside Irrigation Board of Control will undertake 40% or $349,200. The Sunnyside Valley Irrigation District's share will be split. Its cost will be $280,023, less than $4 per acre, or .26 per acre over a 15-year period. The six similar districts' expense will be $67,176, not to come to more than $4 per acre.

The proposed project is designed to relieve a drainage problem in the Lower Valley, and involves installation of drains below the headworks at the Sunnyside dam.
SC 12-14. Previous report 11-20

IDAHO

★STATE HIGHWAY PROJECT— Boise, Idaho

Award announced by Department of Highways, 603 Main St., Boise, for the following highway construction project on which bids opened December 10.

SURFACING, Bliss Jct.-Malad River Bridge Section—Roadway, drainage structures, bituminous surface treatment on 4.438 mi. U. S. Highway No. 30, Gooding County; FAP No. F-2361(65).

AWARD: Earl L. McNutt Co., 351½ E. Broadway, Eugene, $630,972.

Quantities: 244,000 c.y. unclassified excavation; 1,070 c.y. structure excavation; 319,000 c.y. borrow; 231,000 Y.U. haul; 22,450 M gal. wtrg.; 1,670 c.y. mechanical tamping; 9,600' small ditches; 47,700 ton crushed gravel base course 2" maximum; 21,900 ton same, ¾"; 67,500 gal. asphaltic road material; 3,040 ton cover coat material; 28 c.y. concrete; 1,750 lb. metal reinforcement; 2,360' pipe culvert 12" to 36"; 255', 60" pipe culvert; 230', 12" reinforced concrete pipe; 175', 18 pipe siphon; 9,950' steel beam type guard rail; 20,825' fire fence; 495', 2" to 15" concrete irrigation pipe. Completion time 220 working days.
SP 12-14. Previous report 12-12

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., January 7, by Department of Highways, 603 Main St., Boise, for the following highway construction project. Specifications with above office. Certified check or bid bond 5%.

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).

Quantities: 51,800 c.y. unclassified excavation; 950 c.y. excavation for structures; 8,900 c.y. borrow; 10,600 yd. unit haul; 18,500 ton select base course; 16,870 ton crushed gravel base course; 20 c.y. concrete; 3,680' pipe culvert; 790' pipe siphon; 400' concrete irrigation pipe.
SP 12-17

HIGHWAYS— Boise, Idaho

Allocations of 1959 fiscal year funds in amount of $2,927,000 for improvements on the Forest Highway System were recommended to the Chief of U. S. Forest Service and to Administrator of the Bureau of Public Roads, Washington, D. C., for final approval, at a joint administrative meeting of the U. S. Forest Service, the Bureau of Public Roads, and the State Highway Board, early in December.

Allocations recommended were as follows: $235,000, Clark Fork Highway, Route US10A; $300,000, Cascade-Warm Lake Highway, a county road; $500,000, Banks-Crouch Highway, Route SH 17; $80,000, Bitterroot Big Hole Highway; $80,000, Big Springs Connection, Route SH84; $100,000, Priest River Road, Route SH57; $800,000, Lewis-Clark Highway, Route SH 9; $500,000, Elk City Highway, Route SH14.

It is expected that these funds will be available and allocated for construction purpose during the year 1958, although this does not necessarily mean that all of the projects will be underway in 1958. Present plans indicate however, that most of the projects will be started during the oncoming year.

An additional $150,000 has been earmarked for engineering surveys and also $150,000 for necessary contingencies. This leaves an unprogrammed balance of $32,000 remaining of the $2,927,000 which was made available for the 1959 fiscal year Forest Highway System apportionment.
DM 12-18

★GRADING, SURFACING— Elk City, Idaho

Award to MacGregor Triangle Co., 200 Sunrise Rim, Boise, Idaho, $382,550, by Bureau of Public Roads, Missoula, Mont., for grading and surfacing 4.8 mi. of Dixie Road, starting at Elk City and continuing east in Idaho County, Idaho; Proj. Nez Perce 222-A.
WB 12-14. Previous report 11-21

SEWAGE SYSTEM, DISPOSAL PLANT— Idaho Falls, Idaho

Bond issue for $1,600,000 was approved in the December 10 election held by City Council, City Hall, Idaho Falls, to finance expansion of the present sewage system involving construction of interceptor sewers and a primary sewage treatment plant at Idaho Falls. Plans are being prepared by Cornell, Howland, Hayes & Merryfield, consulting engineers, Idaho Bldg., Boise. The sewer work will involve furnishing and installing 8" to 48" sewer pipe. Bids will be called for at least a portion of the work in late spring or early summer of next year.
SP 12-18. Previous report 11-15

●MOTOR CONTROLLERS— Minidoka Project, Idaho

Bids will be opened 2 p.m., December 23, 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. Specifications with above office. Bid bond 20%.
GH 12-13

TELEPHONE LINES— Rupert, Idaho

R.E.A. loan for $149,000 approved for Project Mutual Telephone Cooperative Association, Inc., Donald Dickens, manager, Rupert, to finance construction of 82 mi. of line to provide initial telephone service for 206 new rural subscribers in Jerome and Minidoka counties. Service will be provided through an extension of the borrower's exchange at Paul, Idaho.
WB 12-18

MONTANA

▲BITUMINOUS DISTRIBUTOR— Great Falls, Mont.

Bids received by Cascade County Commissioners, Courthouse, Great Falls, for furnishing one pressure type bituminous distributor. Bids opened December 10. BIDS: Miller Machine Co., 1610 River Drive, Great Falls, $3,456; Montana Powder and Equipment Co., 12 E. Lawrence, Helena, $5,765; Western Construction Co., Box 1506, Great Falls, $5,890; Hall-Perry Machinery, Box 1869, Great Falls, $7,910.
SP 12-17. Previous report 11-26

SEWAGE DISPOSAL SYSTEM— Great Falls, Mont.

Approval of a plat for the Pearson Addition, a proposed development on the Dempsey Inn Road south of the city, has been given by the City County Planning Board subject to action by county attorney of protective covenants guaranteeing provision for sewage disposal. The land developers have indicated intention of providing a lagoon system of sewage disposal.

Tentative plans according to A. J. Richardson, city engineer, City Hall, Great Falls, call for a lagoon to be placed in a low area dedicated for a park. The district would be connected to a sewer when the area becomes contiguous to the city and the lagoon would be converted to park use.
DC 12-18

STORM SEWER— Laurel, Mont.

Bond issue for $185,000 defeated in the December 7 election held by Town Council, Town Hall, Laurel, to finance construction of a storm sewer trunk line to serve most of Laurel.
EE 12-17. Previous report 11-5

●DISTRIBUTION LINE, DOCKS— Malmstrom AFB, Mont.

Bids will be opened January 8 by U. S. Air Force, Procurement Office, Malmstrom AFB, for construction of distribution line and overhead docks at the base. Specifications with above office.
SC 12-14

★CORROSION CONTROL SYSTEM— Malmstrom AFB, Mont.

Award to Rainbow Electric Co., 2220 River Drive, Great Falls, $9,530, by U. S. Air Force, Malmstrom AFB, for installation of a corrosion control system on the base high test fuel system.
SC 12-18

★SURFACING, PAVING— Missoula, Mont.

Award to J. C. Compton Co., Box 86, McMinnville, Ore., $190,727, by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for constructing 9.463 mi. surfacing and bituminous paving, Montana FHP No. 13-C4, D4, E2, F5, Unit 2, Columbia Falls-Glacier Park Highway, Flathead National Forest, Flathead County, Mont.
WB 12-14. Previous report 12-12

SEWAGE TREATMENT— Thompson Falls, Mont.

It has been advised by Claiborne W. Brinck, director of the division of environmental sanitation of the State Board of Health, that serious consideration be given by the City of Thompson Falls to construction of a sewage treatment system to eliminate discharges into the river. It was suggested that city officials consider constructing an intercepting sewer to pick up all sewers now discharging into the river and placing this sewage into a treatment plant such as a lagoon.
SC 12-13

ALASKA

AIRPORT— Sitka, Alaska

A representative of the Sitka Chamber of Commerce has been in Anchorage conferring with officals of the Civil Aeronautics Administration regarding a proposed airport for the Sitka area. The chamber proposes an airport designed to accommodate large aircraft. Completion of all preliminary plans is anticipated in time to present the proposal to Congress in Washington, D. C., in January.
SC 12-18

NORTHERN CALIFORNIA

●SEWAGE FACILITIES EXPANSION— Davis, Calif.

Two contract awards have been announced by City Council, Davis, for the expansion of city facilities to handle industrial sewage. One contract includes building the oxidation pond and the pipelines; the other was awarded for building a pumping station to lift the sewage into the expanded, 136-acre pond. AWARDS—POND AND PIPELINES: A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $174,298. PUMPING STATION: Morris DeRock, 216 B St., Davis, $82,600.
RC 12-21

★CITY STREET MAINTENANCE—
Hayward, Calif.

Awards announced by City Council, City Hall, Hayward, for city street maintenance in Hayward from January 1, 1958, to December 31, 1958, Proj. No. 631. Contracts were awarded separately on each of three bid groups: Group 1—Approximately 200 tons of plantmixed paving, approximately 13,400 sq. ft. patching of existing streets with plantmix, about 200 c.y. excavation; Group 2—Approximately 1,000′ concrete curbs and gutters, and 10,500 sq. ft. concrete sidewalks; Group 3—Approximately 4,000 c.y. roadway excavation, 200,000 sq. ft. subgrade preparation, and constructing 1,250,000 sq. ft. armor coat. Bids opened December 10. AWARDS—GROUP 1: C. J. Wood, Inc., Box 203, Redwood City, $16,665. GROUPS 2 AND 3: J. R. Armstrong Construction Co., 5741 Central Ave., El Cerrito, $14,690, $39,420. BIDS RECEIVED: J. R. Armstrong Construction Co., $19,100 (Group 1), $14,690 (Group 2), $39,420 (Group 3); C. J. Wood, Inc., $16,665, $15,000, $72,000; Rose & Matoza Construction Co., Inc., Box 2007, Castro Valley, $29,775, no bid, $93,250.
RM 12-21. Previous report 11-23

SEWER BONDS— **Lakeport, Calif.**

Voters of Lakeport have aproved a $300,000 sewer bond issue. The general obligation bonds, to be paid for by city sales tax revenue, will be used to enlarge sewer facilities that were built in 1937. RC 12-21

BULLARDS BAR DAM—
Marysville, Calif.

U. S. Senator Thomas Kuchel has revealed that a joint study by the State of California and the U. S. Corps of Engineers is underway on a new Bullards Bar Dam on the Yuba River. Kuchel said that work has begun on coordinated studies to determine the most feasible project at the site, taking into consideration development of the flood plan and recent flood occurrances. A congressional committee has allocated a portion of the funds necessary for the survey, and is expected to allocate additional funds in the next budget. RC 12-21

●WATER MAINS— **Mather Field, Calif.**

Bids will be opened January 8 by the Contracting and Purchasing Office, Mather Air Force Base, Sacramento, for replacement of water mains in the family housing area at the installation. Specifications available from Edward Gillenwater, installation group office, Mather Field. RC 12-21

REINFORCED CONCRETE BRIDGE—
Modesto, Calif.

The Stanislaus County Board of Supervisors, Stanislaus County Office Bldg., Modesto, has cancelled the project for construction of McDonald Creek Bridge on Snelling Road, approximately 1 mi. south of La Grange, Stanislaus County. The contractor would not have sufficient time to complete the job before water is returned to the canal. RM 12-21. Previous report 11-30

▲REINFORCED CONCRETE BRIDGE—
Modesto, Calif.

Bids received by Stanislaus County Board of Supervisors, Stanislaus County Office Building, Modesto, for construction of Bridge No. 7 on Stuhr Road across San Joaquin and Kings River Canal, a reinforced concrete slab bridge 32′ wide, and grading and surfacing about 0.226 mi. with road mixed surfacing. Bids opened December 9. LOW BIDS: H. Sykes, Box 998, Patterson, $26,735; M. J. Ruddy & Son, Rt. 6, Box 1419A, Modesto, $29,837; Granite Construction Co., Box 683, Merced, $30,523. RM 12-21

▲STEEL PIPE— **Oakland, Calif.**

Bids received by East Bay Municipal Utility District, room 104, 2130 Adeline St., Oakland, for furnishing a total of 51,000′ of cement mortar lined and coated electric welded steel pipe in 6.9″, 9.05″, 13.2″ and 17.8″ diameters; Prop. No. 2527. Bids opened December 13. BIDS RECEIVED: Armco Drainage and Metal Products Inc., 2180 Milvia St., Berkeley, $14,123 (6,000′ of 6.9″), $36,244 (12,000′ of 9.05″), $37,116 (9,000′ of 13.2″), $130,581 (24,000′ of 17.8″); Southern Pipe & Casing Co., Box C, Azusa, no bid, no bid, $37,860, $133,101.
RM 12-21. Previous report 11-30

★STORM DRAINAGE— **Oakland, Calif.**

Award to Prodanovich Inc., 750 81st Ave., Oakland, $19,986, by Alameda County Board of Supervisors, Court House, Oakland, for construction of a storm drainage line in Zone 2 of flood control district, involving installation of 300′ of 18″ reinforced concrete pipe in the vicinity of Clare St. and Vincent Court. Five bids were submitted.
RC 12-21

★PIPE CONDUIT— **Oakland, Calif.**

Award to McGuire and Hester, 796 66th Ave., Oakland, $201,046, by City Council, City Hall, Oakland, for the construction of a pipe conduit in portions of 28th St., Ettie St., and San Pablo Ave. from Ettie St. to West St., in Oakland. Bids opened November 29. OTHER LOW BIDS: Prodanovich Inc., 750 81st Ave., Oakland, $238,126; John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley, $246,223.
RM 12-21. Previous report 11-23

TESTING REACTOR— **Pleasonton, Calif.**

The Atomic Energy Commission has directed that a public hearing be held regarding the proposed issuance of a permit to the General Electric Company for construction of a testing reactor at the company's Vallecitos Atomic Laboratory in Alameda County, Calif.

General Electric proposes to build a pressurized water reactor with a maximum power of 30,000 kw. (heat) to provide experimental facilities capable of irradiating fuel elements and components of nuclear power plants at high neutron fluxes. The company describes the proposed reactor as a major tool for use in fuel element development and environmental testing. The company expects to complete the reactor during the period June 1958 to January 1959. RM 12-21

●RAILROAD BRIDGE—
Sacramento, Calif.

Bids will be opened 10:30 a.m., January 29, by the State Department of Water Resources 1730 24th St., Sacramento, for the construction of an 880′ railroad bridge over the North Fork of the Feather River. Contractors will be asked to bid on either a steel truss or reinforced concrete type span. The bridge will cross the forebay reservoir at the Pacific Gas & Electric Company's Las Plumas powerhouse, just east of the 8,800′ railroad tunnel now under construction. This is part of the project to relocate the Western Pacific Railroad Company tracks around the Oroville, Butte County, reservoir site of the Feather River Project. RC 12-21

★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 December 4.

S-SJ-5-B,STKN—Grade and pave about 5.1 mi. with plantmixed surfacing on untreated base and existing pavement, and construct one bridge and two culverts, between Richards Ave. and Charter Way, San Joaquin County. AWARD: A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $693,442.

IV-SM-237-SBR—Furnish and install traffic signal, flashing beacon and highway lighting systems at Sneath Lane and at San Bruno Ave. in San Bruno on Junipero Serra Blvd., San Mateo County. AWARD: R. Flatland, 1205 Harrison St., San Francisco, $30,966. PB 12-21. Previous report 12-7

●STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Bids will be opened 2 p.m., January 8, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

BUTTE COUNTY—Grade and surface for 5.1 mi. to construct the initial two lanes of a future four-lane expressway between Union School and State Highway Route 21 (Oroville-Richvale Road), U.S. Highway 40 south of Oroville. Estimated cost $850,000.

CALAVERAS COUNTY—Grade and surface to widen a two-lane highway, including some realignment, for approximately 5.9 mi. on two sections between Murphys and Big Trees, State Sign Route 4. Estimated cost $555,000.

SANTA CLARA COUNTY—Construction of channelization at King Road and Capitol Ave. and installation and modification of traffic signal systems and highway lighting, State Highway Route 115 (Alum Rock Ave.) in and northeast of San Jose. Estimated cost $180,000.

SOLANO COUNTY—Construction of a retardation basin, concrete spillway and approach road at Pennsylvania Creek near the Octo Inn, U.S. Highway 40 near Fairfield. Estimated cost $55,000.

MARIN COUNTY—Grading and surfacing of the yard area and construction of two metal buildings, a loading ramp and timber bumper at the Manzanita Maintenance Station at the intersections of State Sign Route 1 and U.S. Highway 101. Estimated cost $63,000.
RM 12-21

▲STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Bids received December 18 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction.

III-NEV-37,38-D,A—About 8.8 mi. to be graded and surfaced with concrete pavement and plantmixed surfacing to provide a four-lane, divided highway; 11 bridges to be constructed; highway lighting, steel sign structures, and a truck scale house with attendant facilities to be constructed or installed, near Truckee between 1.4 mi. west of junction routes 37 and 38 and 0.5 mi. west of Boca, Nevada County.

LOW BIDS: Fredrickson & Watson Construction Co. and Watson Construction Co., 873 81st Ave., Oakland, $7,620,605; McCammon-Wunderlich Co. and Wunderlich Construction Co., Box 359, Palo Alto, $7,884,076; R. A. Westbrook and Morrison-Knudsen Co., Inc., 411 W. 5th, Los Angeles, $7,926,645.

IV-C.C—1255—Grade about one mi. of highway and pave with plantmixed surfacing over untreated base, and construct a concrete and structural steel bridge on Wilbur Ave. over Sante Fe Railroad near Antioch, Contra Costa County.

LOW BIDS: G. R. Pollock, 636 S. Serrano Ave., Los Angeles, $347,635; Bos Construction Co., 1035 Grayson, Berkeley, $347,325; Pacific Co., Berkeley, $349,276.

IV-SCL,SCR-42,116-A,SAR,B—Revise existing drainage facilities between Saratoga and 5.7 mi. north of Boulder Creek, Santa Clara and Santa Cruz counties.

LOW BIDS: Walter F. Cozad, Sacramento, $21,491; Charles S. Moore, San Jose, $23,051; Edward Keehle, San Jose, $23,204.
PB 12-21. Previous report 12-7 and 11-16

▲SUPPLY AND DISPOSAL WELLS—
Sacramento, Calif.

Bids received by Sacramento Municipal Utility District, 59th and R, Sacramento, for a complete installation of two 14″ diameter, approximately 300′ deep supply wells, and two 20″ diameter, approximately 150′ deep disposal wells, to be located at 63rd and S Sts., Sacramento. Bids opened December 16. LOW BIDS: Western Well Drilling Co., Box 47, San Jose, $21,867; Munz Pumps, Inc., 301 N. 12th, Sacramento, $23,338; Beymer's Well Service, Rt. 2, Yuba City, $26,296.
PB 12-21

★STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Award announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construc-

tion for which bids were opened November 27.

IV-NAP-607—Widen two highwater bridges between Trancas Ave. and Soda Canyon Road on Silverado Trail, Napa County. AWARD: James H. McFarland, 6th and Hooper Sts., San Francisco, $28,695.

PB 12-21. Previous report 12-7

■ **WATER TANK, PAVING, BUILDING—**
San Francisco, Calif.

Planholders announced by Corps of Engineers, 180 New Montgomery St., San Francisco, for construction of a steel water tower and redwood water tank, including earthwork and bituminous paving, and construction of an aluminum sided and roofed, steel frame building on a reinforced concrete platform, at Fort Cronkhite, Marin County, Calif. Serial No. ENG-04-203-58-13. Bids to be opened December 27.

Planholders: Jo W. Kemling, 18770 Tuggle Ave., Cupertino; Cen-Cal Co., 795 Williams St., San Leandro; Ceccotti & Son of Marin, Inc., 1564 Redwood Highway, Corte Madera; Bos Construction Co., 1035 Grayson St., Berkeley; Ray White, 316 Virginia St., Vallejo; Moore Dry Rock Co., Foot of Adeline St., Oakland; Underground Construction Co., 807 75th Ave., Oakland; A. M. Hardy, 736 Clementina St.; Hart and Hynding, Inc., 472 Tehama St.; Brown and Elkin Construction and Engineering Co., 72 Second St.; Plant Bros. Corp., 1168 Battery St.; Clovis Construction Co., 521 Brannan St.; Martinelli Construction Co., Inc., 1580 Folsom St.; Bailliet Bros Construction Corp., Pier 52; Fraser-Edwards Co., 2412 Harrison St.; O. C. Jones Co., 49 Zoe St.; Alfred P. Fisher, 761 Beach St.; Herrero Bros., Inc., 1944 Union St., J. H. Pomeroy & Co., Inc., 120 Montgomery St.; Merz Bros., 1880 Ellis St.; Noble Wright Co., 280 Tehama St. All San Francisco except as noted.

RM 12-21. Previous report 12-14

★SIDEWALKS, STREETS AND CURBS, DIVERSION STRUCTURES—
San Jose, Calif.

Three contract awards have been announced by the Santa Clara County Board of Supervisors, 1st and Ross, San Jose. AWARDS: O. C. Jones & Sons, 1520 Fourth St., Berkeley, $86,617, for constructing sidewalk, driveway and parking facilities at the new County Criminal-Legal Bldg.; Bragato Paving Co., 500 Bragato Road, Belmont, $18,842, for constructing streets, curbs, sidewalks and storm drains at the Civic Center in San Jose; R. W. Stutz Construction Co., 3950 Duncan Place, Palo Alto, $16,970, for diversion structures on Vasona Creek near Santa Clara-Los Gatos Road. RC 12-21

UNIT BIDS

Clearing, Grading, Draining

Idaho

U. S. Forest Service, Missoula, Mont., opened bids November 5 for clearing, grading, draining 4.506 mi. of roadway on the Pierce-Kelly Creek Road, Clearwater National Forest, Clearwater County, Idaho. The contract was awarded to the low bidder. Following is a tabulation of the three low bids:

(1) John Paola, Kalispell, Mont., $92,866
(2) Rural Builders, Great Falls, Mont., $93,834
(3) J. M. Purcell, Kalispell, Mont., $108,486

	(1)	(2)	(3)
30 acre clrg, grbg	250.00	400.00	400.00
130 sq ft remove trees etc	3.00	3.00	5.00
160,000 c y uncl excav	.395	.30	.39
950 c y uncl excav for struct	3.00	3.50	3.00
2000 sta yd overhaul (1000' free haul)	.03	.02	.05
500 M gal wtrg	2.50	2.00	2.00
wtrg plants	500.00	200.00	500.00
2100', 18" corr mtl pipe	3.22	5.00	4.50
100', 24" same	4.88	8.00	7.00
240', 30" same	5.79	9.00	8.00
76', 36" same	9.53	14.00	14.00
200', 48" same	15.59	25.00	20.00
3 elbows, 18" corr mtl pipe	46.00	45.00	35.00
64' remove, stockpile culv pipe	3.00	5.00	3.00
790' relay salv culv pipe	3.50	10.00	4.50

Cement Concrete Paving

Washington

Washington State Highway Commission, Olympia, Wash., opened bids December 19, 1957, for surfacing, paving with portland cement concrete and asphaltic concrete and installing an illumination system and automatic sprinkler system on 2.039 mi. PSH No. 2, Helena St. to Custer St. Spokane County. Award was made to the low bidder. Following is a tabulation of the bids received.

(1) Fiorito Bros., Seattle, Wash., $704,161
(2) Peter Kiewit Sons' Co., Vancouver, Wash., $708,123
(3) Sather & Sons, Yardley, Wash., $735,121

Cherf Bros. Inc., and Sandkay Contractors, Inc., Ephrata, Wash., $798,410
Morrison-Knudsen Co., Inc., Boise, Idaho, $898,279
Donald M. Drake, Portland, Ore., $915,791

	(1)	(2)	(3)
100 c y com excav incl haul	1.00	1.50	2.00
1000 c y strpg quarries, pits incl haul	.01	.001	.01
430 c y struct excav	2.00	3.00	3.00
138 sta fin rdway	10.00	15.00	20.00
1500 M gal water	1.50	3.00	1.00
100 c y grvl backfill for drains	5.00	6.00	2.60
6500 ton sel rdway borrow	.75	1.00	.85
20,000 ton cr surf top course	1.50	1.45	1.80
10,500 c y top soil from stockpile	1.75	1.35	1.50
5160 c y top soil	2.25	1.90	2.22
5800 ton cl B asph concr pvment	8.00	9.00	8.75
55 ton cl C same	15.00	14.50	14.50
6 ton asph cem for tack coat	100.00	95.00	92.00
100 ton min filler	30.00	30.00	30.00
85,850 sq yd stan cem concr mix	3.78	3.55	3.75
8510 sq yd unfin same	3.00	2.95	3.00
296 c y concr cl E	16.00	14.00	33.50
114,000 stl reinf bars	.13	.13	.145
264' spec cem concr curb	2.50	1.60	1.00
4690' mountable cem concr curb	1.40	1.60	1.40
21,840' cem concr curb, gutter	1.25	1.60	1.75
22,240' cem concr gutter	1.75	1.95	1.95
1750' type A precast traffic curb	2.00	2.00	2.25
2226', 6" concr or vit clay drain pipe	1.00	1.45	1.25
3086', 8" plain mtl drain pipe	2.00	2.15	2.25
8 monument cases, covers	50.00	35.00	30.00
6327' beam guard rail	3.25	3.45	2.80
263 guide posts	5.00	6.00	7.00
Other Items			
clrg, grbg	1,800	1,000	1,000
illumination system	29,500	31,500	32,000
auto sprinkler system	65,000	70,000	67,500

Water, Electric, Sewer Systems

Oregon

The Oregon State Highway Commission, Salem, Ore., opened bids on October 31, 1957, for Honeyman Park facilities, including construction of utility building, latrine, pumphouse, water system, electric system, sewer system, 2.5 mi. south of Florence on Oregon Coast Highway, Lane County. Contract was awarded to the low bidder. Following is a tabulation of the bids received:

(1) Fred J. Stubbert, Springfield, Ore., $39,450
(2) Baughman & Son, Coos Bay, Ore., $42,415
(3) Berry Creek Construction Co., Florence, Ore., $43,213

R & M Construction Co., Central Point, Ore., $43,227
Sig Andersson, North Bend, Ore., $44,585
George W. Millett, Jr., Eugene, Ore., $45,212
Donald W. Thompson, North Bend, Ore., $46,754
Mann Construction Co., Redmond, Ore., $48,112
Decatur & Maerz, Salem, Ore., $48,261
Lee Built Homes & John D. Backman & Bruce K. Keen, Springfield, Ore., $50,899
Tom Lillebo Construction Co., Reedsport, Ore., $51,134

	(1)	(2)	(3)
1,650', 4" wtr line	2.20	2.30	2.34
850', 3" same	1.90	1.97	1.93
3,600', 1" same	.60	.62	.54
43 faucet service	18.80	14.40	10.85
15 waste wtr disposal	26.00	55.30	40.00
1,920', 4" bit fiber sewer	1.00	.99	1.13
600', 3" same	1.00	.88	.87
28 trailer sewer connection	23.00	17.00	28.50
59 table, camp site post	32.00	34.00	36.50
59 camp stove	25.00	23.00	32.00
59 concr guard log	18.00	23.00	13.50
Lump Sum Bids			
utility bldg	9,532	10,350	9,626
latrine	5,425	6,535	5,370
pumphouse	3,850	5,025	8,251
septic tanks	2,550	2,000	1,536
elec sys	1,900	1,730	1,589

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

Dec 23—Eugene—Floor Tile 12-14
Dec 26—Medford—Elevator Conversion 11-26
Dec 26—Portland—Elevators 11-30
Dec 26—Portland—Folding Tables, Kitchen Equipment 12-13
Dec 26—Portland—Lighting Modifications 12-17
Dec 26—Portland—Rehabilitate Showers 12-17
Dec 27—Oswego—Junior High School Addition 12-7
Dec 27—Portland—Building Renovations 12-6
Dec 30—Baker—Post Office Repairs 12-18
Dec 30—Portland—Elevator Conversion 12-3
Dec 30—Portland—Courthouse Improvements 12-18
Jan 2—Portland—Demolition of Buildings 12-17
Jan 6—Beaverton—School Addition 12-12
Jan 6—Portland—Sheraton Hotel 12-10
Jan 10—Portland—Hospital-Clinic 12-10
Jan 13—Springfield—City Hall Remodeling 12-13
Jan 14—Kingsley Field—Family Housing 12-17
Jan 16—Eugene—Heating, Power Plant Addition 12-14
Jan 31—North Bend—Post Office 12-17

WASHINGTON

Dec 23—Keyport—Dormitory Extension 12-6
Dec 23—Paine AFB—Building Replacement 12-14
Dec 23—Parkwater—Hangar Alterations 12-12
Dec 23—Tonasket—Office, Warehouse 12-6
Dec 23—Whidbey Island—Building Demolition 12-3
Dec 23—Yakima—Tent Camp Facilities 12-14
Dec 26—Seattle—Elevator Conversion 11-30
Dec 27—Seattle—Heating System Alterations 12-18
Dec 27—Seattle—Electrical Distribution System 12-18
Dec 30—Richland—Furnace Installation 12-12
Dec 30—Seattle—Elevator Conversion 12-3
Dec 30—Seattle—Addition to Residence 12-17
Dec 30—Seattle—Airport Marker Facility 12-17
Dec 30—Seattle—Door, Window Repair 12-18
Dec 30—Seattle—Stairway, Paving 12-18
Jan 3—Tacoma—Madison School (Mechanical Contract) 12-13
Jan 7—Clarkston—Bank 12-14
Jan 7—Geiger Field—Building Repair 12-12
Jan 7—Geiger Field—Roof Extension 12-12
Jan 7—Port Blakely—Foundation Repairs 12-11
Jan 7—Seattle—Elementary School 12-17
Jan 7—Tacoma—Northeast Tacoma School 12-13
Jan 8—Seattle—Maintenance and Repair Building 12-7
Jan 9—Bremerton—Sprinkler System 12-18
Jan 13—Vancouver—Building Remodeling 12-14
Jan 14—Kennewick—Junior High School 12-17

IDAHO

Dec 27—Pocatello—Sandblast Facility Additions 12-10
Jan 15—Moscow—Genetics Center 12-10
Jan 20—Ashton—Post Office 12-4
Jan 20—Rupert—School Additions 12-17

MONTANA

Dec 23—Miles City AF Station—Exterior Painting 12-14
Dec 26—Missoula—Elevator Conversion, Replacement 11-30
Jan 8—Deer Lodge—High School Additions 11-30

ALASKA

Dec 23—Elmendorf AFB—Apartment Painting 12-11
Dec 24—King Salmon—Duplex, Communications Facility 12-3
Dec 27—Anchorage—Prefabricated Buildings 12-6
Dec 27—Elmendorf AFB—Interior Painting 12-11
Dec 27—Ketchikan—Courtroom Lighting 12-14
Jan 6—Anchorage—Office Remodeling 12-10
Jan 7—Elmendorf AFB—Laboratory, Utilities 11-26

ENGINEERING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

Dec 23—Eugene—Grader Blades 12-14
Dec 23—Portland—Concrete Pipe 12-14
Dec 23—Tillamook—Light Replacement 12-10
Dec 26—Coos Bay—Dolphin 12-12
Dec 26—Portland—Bituminous Surfacing, Paving 12-10
Dec 30—Depoe Bay—Floodlight Modification 12-13
Dec 30—Klamath Falls—Drilling Water Well 12-13
Dec 30—North Bend—Road Construction 12-11
Jan 6—Heppner—Water Pipe 12-17
Jan 7—Portland—Grading 12-11
Jan 9—Troutdale—Core Drilling Bits, Shells 12-10
Jan 13—Beaverton—Sewage Lift and Mains 12-14
Jan 13—Klamath Falls—Sewage Treatment Plant (Primary Units) 12-6
Jan 14—Portland—Bridge Approaches 12-14
Jan 23—Portland—Steam Distribution Lines 12-17

WASHINGTON

Dec 23—Amboy—Drilling Well 12-17
Dec 23—Everett—Radio-Telephone Units 12-10
Dec 23—Everett—Tractor Dozer 12-17
Dec 23—Nahcotta, Tokeland—Navigation Aids 12-7
Dec 23—Seattle—Crushed Stone Stockpiling 12-7
Dec 23—Seattle—Crushed Aggregates 12-17
Dec 26—Point Roberts—Well 12-14
Dec 26—Sunnyside—Electric Motor 12-17
Dec 27—Longview—Power Transformers 12-5
Dec 27—Seattle—Sheet Steel Piling 12-18
Dec 27—Vancouver—Surge Discharge Counters 12-10
Dec 27—Vancouver—Switchboard Devices 12-10
Dec 30—Blaine—Driveway Alterations 12-14
Dec 30—Everett—Powerplant 12-17
Dec 30—Vancouver—Wire and Cable 12-10
Dec 31—Olympia—State Highway Project 12-13
Dec 31—Pasco—Power Circuit Breakers 12-13
Dec 31—Vancouver—Terminal Blocks 12-17
Jan 3—Jefferson County—Water Well 12-17
Jan 6—Ephrata—Grading, Surfacing 12-10
Jan 6—Lake Stevens—Radio Communications Equipment 12-13
Jan 6—Seattle—Sanitary Sewer 12-14
Jan 6—Seattle—Switchrack 11-30
Jan 7—Cedar Falls—Unit Sub-Station 11-26
Jan 7—Olympia—State Highway Projects 12-18
Jan 7—Seattle—Electric Wire 12-18
Jan 13—Kent—Oil Storage Tank Heaters 12-7
Jan 13—Seattle—Draining, Grading, Surfacing 12-7
Jan 13—Vashon Island—Road Resurfacing, Widening 12-13
Jan 14—Longview—Power Switchyard 12-6
Jan 15—Ephrata—Transmission Lines 12-17
Jan 15—North Bend—Fire Truck 12-14
Jan 21—Seattle—Steam Generating Unit 12-13

IDAHO

Dec 23—Minidoka Project—Motor Controllers 12-13
Jan 7—Boise—State Highway Project 12-17

MONTANA

Jan 7—Fort Peck—Penstocks, Tunnel Liner, Tanks 11-22
Jan 8—Malmstrom AFB—Distribution Line, Docks 12-14
Jan 10—Malmstrom AFB—Road Repair 12-11

ALASKA

Dec 26—Anchorage—Approach Lighting 12-3

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THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

BRIDGE APPROACHES

BIDS CLOSE 10:30 A. M., JANUARY 14

Portland, Oregon

NOTICE TO CONTRACTORS

SEALED BIDS will be received by the Board of County Commissioners of Multnomah County, Room 504, County Court House, Portland, Oregon, until 10:30 A. M., January 14, 1958, and then opened for furnishing West Approaches to the Hawthorne Bridge.

Specifications are on file with the County Clerk of Multnomah County, and copies thereof may be obtained at the office of the Roadmaster, 2115 S.E. Morrison Street. A deposit of twenty-five dollars ($25.00) will be made for the Bid Proposal and plans. This $25.00 dollars will be returned.

No bid will be received or considered by the Board of County Commissioners or any officer of such county unless the bid contains a statement of the bidder as a part of his bid that he will covenant, and it will be a condition of his bond, that in performing his contract he will pay and cause to be paid not less than the prevailing rate of wages as of the date of his bid in such county per hour, per day and per week for and to each and every workman who may be employed in and about the performance of his contract.

No proposal will be considered unless accompanied by a check payable to the Board of County Commissioners of Multnomah County, certified by a responsible bank, or in lieu thereof, a surety bond for an amount equal to ten per cent of the aggregate proposal. The successful bidder shall furnish a bond satisfactory to the Board in the full amount of the contract. The right is reserved to reject any and all bids.

Bidders must be prequalified before plans can be issued.

JOHN W. WEST,
Purchasing Agent.

6006—12-21, 28

SEWAGE TREATMENT PLANT PRIMARY UNIT

BIDS CLOSE 2 P.M., JANUARY 13

Klamath Falls, Oregon

NOTICE TO CONTRACTORS

Sealed proposals for furnishing materials and constructing the primary units of a sewage treatment plant for the City of Klamath Falls, Oregon, will be received at the Office of the Police Judge until 2 p.m. January 13, 1958, and thereafter will be publicly opened and read.

The proposed work includes a pumping station, primary settling tanks, digesters and control house for the sewage treatment plant.

The following approximate amounts for the principal items gives a general idea of the character and scope of the work:

Structural Excavation & Backfill 3,000 Cu. Yds.; Concrete, all classes, 1,655 Cu. Yds.; Reinforcing steel 220,000 Pounds. Furnishing & installing pipe & fittings, plumbing, heating, gas & electrical systems, and installing special equipment purchased by the City.

Plans, Specifications, Instructions to Bidders and blank forms of Proposal and Contract may be seen at the Office of the City Engineer or Recorder at the Klamath Falls City Hall or at the office of the Consulting Engineers, John W. Cunningham & Associates, 1112 Portland Trust Building, Portland 4, Oregon.

Copies may be obtained by qualified prospective bidders upon the receipt of cash or check in the amount of $25.00 made payable to the City of Klamath Falls. The deposit will be refunded in case a bona fide bid is submitted and the Plans and Specifications are returned in good condition. Otherwise the deposit will be retained.

Pre-qualification under State Laws is required. All proposals must be on the regular blank forms furnished with the Specifications and must be accompanied by cash or a certified check payable to the City of Klamath Falls in an amount equal to or exceeding five per cent (5%) of the total bid. A One Hundred Per Cent (100%) Corporate Surety Performance Bond will be required to guarantee the faithful performance of the Contract.

The right is reserved to postpone making the award for a reasonable length of time or to reject any or all bids, for good and sufficient reasons, or to accept the proposal deemed in the best interest of the City.

By order of the Mayor and City Council.

Dated at Klamath Falls, Oregon The 4th day of December, 1957.

Frank A. Blackmer, Police Judge

6003—12-14, 21

OFFICE, WAREHOUSE

BIDS CLOSE 2 P.M., P.S.T., DECEMBER 23

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids for construction of Tonasket Ranger Station office bldg. and whse. located in Tonasket, Okanogan County, Okanogan National Forest, Washington, will be received until 2:00 p. m., P.S.T., December 23, 1957, 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.

6002—12-6

GRADING

BIDS CLOSE 10 A. M., JANUARY 7

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, December 12, 1957. SEALED BIDS will be received at the office of the Bureau of Public Roads, 757 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10:00 a. m. on January 7, 1958, for furnishing the material and performing the work for constructing 5.410 Miles Grading, Oregon Timber Access Road Project BLM 42-A1, B, Cow Creek Road, Bureau of Land Management-Roseburg District, Douglas County, Oregon, involving 50 Acres Clearing and Grubbing; 310,000 Cu. Yds. Excavation; 32,000 Cu. Yds. Topping; 168,000 Yd. Miles Borrow Overhaul; 180 Cu. Yds. Concrete; 26,200 Lbs. Reinforcement Steel; 4,000 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, 757 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

6004—12-14

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., DECEMBER 31

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, December 31, 1957, 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 Engineer 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. Surfacing, Paving with Cement Concrete and Asphaltic Concrete, Constructing Cement Treated Base and Installing Illumination on 6.252 miles of Primary State Highway No. 1 in Thurston County, TROSPER ROAD TO MARTIN WAY, FAP No. I-001-2(55), involving about 7,270 cubic yards of Common Excavation and Borrow, 38,700 tons of Selected Roadway Borrow, 182,540 tons of Gravel Surfacing, 36,400 tons of Crushed Surfacing, 9,600 cubic yards of Top Soil, 340 tons of Asphalt Cement, 2,100 cubic yards of Crushed Cover Stone, 7,040 barrels of Portland Cement, 79,000 square yards of Cement Treated Base, 13,810 tons of Asphaltic Concrete, 172,560 square yards of Cement Concrete Pavement, 1,100 cubic yards of Concrete, 249,740 pounds of Steel Reinforcing Bars, 66,193 linear feet of Cement Concrete Gutter, 15,474 linear feet of Cement Concrete Curb, 51,511 linear feet of Cement Concrete Curb and Gutter, 4,422 linear feet of Asphaltic Concrete Curb, 3,995 linear feet of Precast Traffic Curb, 115 linear feet of Iron Pipe, 3,660 linear feet of Metal Pipe, 30,594 linear feet of Concrete Pipe, 16,743 linear feet of Beam Guard Rail, 1,332 Guide Posts, 1,040 square yards of Precast Concrete Slope Protection, 8 lump sum bids for Installation of Illumination Systems, a lump sum bid for Overhead Destination Sign Supports 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 Steel Truss Bridge with Reinforced Concrete Box Girder Approaches on 0.210 mile of Secondary State Highway No. 1-A in Snohomish County, SNOHOMISH RIVER BRIDGE, FAS No. S-SG-0202(5), involving about 2,555 cubic yards of Concrete, 183,000 pounds of Steel Reinforcing Bars, a lump sum bid for Approach Spans Superstructure (about 1,860 cubic yards of Concrete and 510,500 pounds of Steel Reinforcing Bars), 1,593 linear feet of Standard Bridge Railing, 2 lump sum bids for Structural Steel (about 640,500 pounds), a lump sum bid for Cast Steel, 2,200 linear feet of Concrete Piling, 16,000 linear feet of Untreated Timber Piling, 4,700 tons of Loose Riprap, a lump sum bid for Air Beacon 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

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

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 Three Reinforced Concrete Box Girder Bridges on 0.019 mile of Primary State Highway No. 9 in Thurston County, PERRY CREEK BRIDGES, FAP No. F-007-5(10), involving about 3,500 linear feet of Concrete Piling, 570 linear feet of Standard Bridge Railing, a lump sum bid for Three Superstructures (about 710 cubic yards of Concrete and 199,500 pounds of Steel Reinforcing Bars) and other items.
5. Constructing a Precast Concrete Girder Bridge on 0.033 mile of a Pierce County Road, TAYLOR BAY BRIDGE, FAS No. S-0333(2), involving about 1,220 linear feet of Treated Timber Piling, 7.3 MBM of Treated Timber and Lumber, 49 Precast Concrete Deck Units, 16 Precast Concrete Bulkhead Units, 457 linear feet of Special Bridge Railing and other items.
6. Draining, Grading, Surfacing and Paving with Asphaltic Concrete and Cement Concrete on 1.798 miles of Primary State Highway No. 2 in Spokane County, JUNCTION PSH NO. 11 TO LATAH CREEK IN SPOKANE, a State Project, involving about 5,000 cubic yards of Unclassified Excavation, 3,260 cubic yards of Common Excavation, 25,180 cubic yards of Solid Rock Excavation, 9,500 tons of Crushed Surfacing, 37 tons of Asphalt Cement, 210 cubic yards of Crushed Cover Stone, 8,090 tons of Asphaltic Concrete, 9,920 square yards of Unfinished Cement Concrete Pavement, 4,530 linear feet of Cement Concrete Curb, 6,290 linear feet of Precast Traffic Curb, 10 cubic yards of Concrete, 360 linear feet of Metal Pipe, 2,460 linear feet of Concrete Pipe, 228 linear feet of Beam Guard Rail, 697 square yards of Cement Concrete Sidewalk and Driveway and other items.
7. Clearing, Draining, Grading, Surfacing and Paving with Asphaltic Concrete on 0.218 mile of Secondary State Highway No. 1-A in Skagit County, DUKE HILL BRIDGE VICINITY, a State Project, involving about 26,560 cubic yards of Common Excavation and Borrow, 2,074 cubic yards of Selected Roadway Borrow, Crushed Surfacing, Mineral Aggregate and Prime Coat Aggregate, 9 tons of Asphalt Cement, 530 tons of Asphaltic Concrete, 1,090 linear feet of Asphaltic Concrete Curb, 287 linear feet of Concrete Pipe, 70 linear feet of Metal Pipe, 10 Guide Posts and other items.
8. Draining, Grading and Surfacing on 21.769 miles of a Grant County Road, BLOCK 79 FEEDER ROADS, a State Project, involving about 19.3 miles of Grading, 23,900 tons of Crushed Surfacing, 1,786 linear feet of Concrete Pipe, 1,810 linear feet of Metal Pipe, 5,330 linear feet of Right of Way Fence and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

6005—12-14, 21

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., JANUARY 7
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids, which were to have been received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, December 31, 1957, for the construction of improvements as listed below will not be received until 10:00 A.M. on Tuesday, January 7, 1958, and will then and there be opened and publicly read:

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.

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2. Constructing a Steel Truss Bridge with Reinforced Concrete Box Girder Approaches on 0.210 mile of Secondary State Highway No. 1-A in Snohomish County, SNOHOMISH RIVER BRIDGE, FAS No. S-SG-0202(5), involving about 2,555 cubic yards of Concrete, 183,000 pounds of Steel Reinforcing Bars, a lump sum bid for Approach Spans Superstructure (about 1,860 cubic yards of Concrete and 510,500 pounds of Steel Reinforcing Bars), 1,592 linear feet of Standard Bridge Railing, 2 lump sum bids for Structural Steel (about 640,500 pounds), a lump sum bid for Cast Steel, 2,200 linear feet of Concrete Piling, 16,000 linear feet of Untreated Timber Piling, 4,700 tons of Loose Riprap, a lump sum bid for Air Beacon and other items.
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E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

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