Architecture / West

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A CHALLENGE AND
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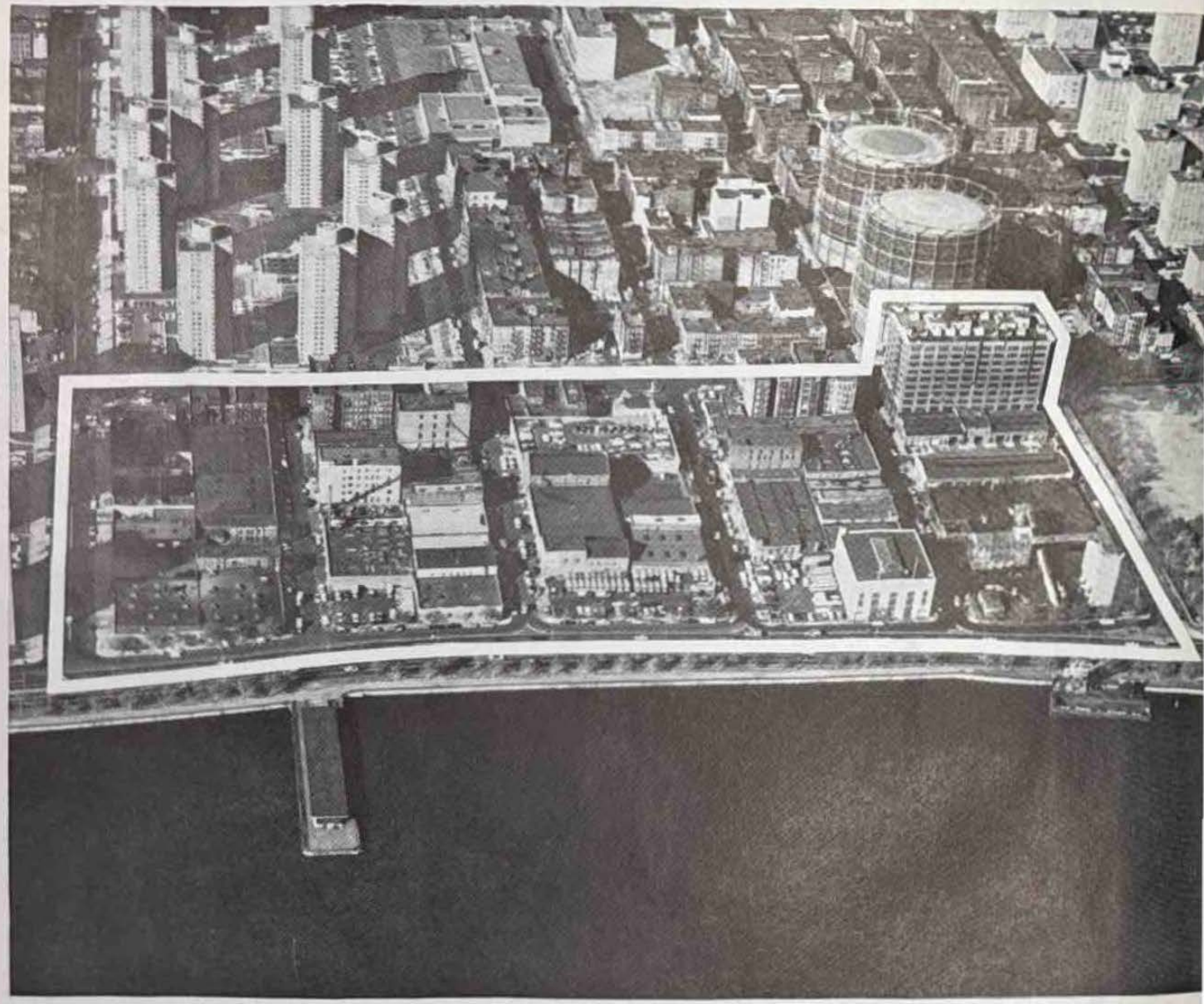

The East River Urban Renewal Area is bounded by East 106th Street, the Franklin Delano Roosevelt Drive, East 111th Street and First Avenue. It contains 22.2 acres. The solution will be based on creative provision for middle income housing, integrated with necessary schools, retail shopping, including development of river front and other facilities for recreation.

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The subject of the 5th Annual Ruberoid Competition will be the design of the East River Urban Renewal area, a project of the Housing and Redevelopment Board of New York City now ready for planning. The Competition will offer a total of sixteen prizes, nine open to all entrants with a grand prize of $10,000 and seven for students only, with a first prize of $2,000.

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A prospectus containing the complete program eligibility rules, etc. is available on request. It has been approved by the A.I.A. Committee on Awards and Competitions.

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THE BUILDING MONTH

THE BUILDING WEST—The number of building permits issued for the year continues to run well ahead of those issued for the same period a year ago. This volume in the West promises to bring national total up to point where 1962 would show as the best building year since 1959. Total dollar volume for November 1962 was $517 million. Tabulation of 496 agencies issuing permits appears on pages 24-25.

THE TOP 25—San Francisco, in third spot in building construction in the west, shows a dollar volume more than doubling the November 1961 figures. Los Angeles County, Seattle and Honolulu are also running ahead of the 1961 volume. The 25 leading agencies (in millions): 1. Los Angeles, $48.6; 2. Los Angeles County, $28.5; 3. San Francisco, $20; 4. Seattle, $11.7; 5. Honolulu, $10.9; 6. San Diego, $8.7; 7. Phoenix, $8.5; 8. Long Beach, Calif., $8.3; 9. Sacramento, $8.2; 10. Sacramento County, $7.7; 11. Las Vegas, $7.2; 12. Ventura County, Calif., $7.2; 13. King County, Wash., $7.1; 14. San Bernardino County, Calif., $6.8; 15. Clark County, Nev., $6.8; 16. Riverside County, Calif., $6.6; 17. San Jose, Calif., $5.8; 18. Orange County, Calif., $5.3; 19. Oakland, $5.1; 20. Boulder, Colo., $4.8; 21. Huntington Beach, Calif., $4.3; 22. Tucson, $4.2; 23. Denver, $4; 24. Contra Costa County, Calif., $3.8; 25. Reno, Nev., $3.7.

ARCHITECTS FOR ART—Twenty Northwest architects accepted an invitation to exhibit their most inspired creations at the University of Oregon's Museum of Art in Eugene early last month. Working drawings, perspective renderings, photographs and a model of each building were included, with the material representing a wide range of building types. Concensus of opinion: that it was one of the best architectural exhibits ever staged. Architects invited were from Seattle, Tacoma, Portland, Eugene and Spokane.

TOWARDS GREATER UNDERSTANDING OF ARCHITECTURE—Spokane Chapter, AIA, with the Women's Architectural League, has formed a Speakers' Bureau, aimed at stimulating greater public interest and understanding of architecture. The Bureau has 19 topics listed including such provocative titles as "What an Architect Does", "Why An Architect? What Does He Do?", "Architecture Yesterday and Today", "Man Can Live With Beauty", and so on. Requests for speakers may be made to Speakers' Bureau, Women's Architectural League, Spokane Chapter, AIA, Box 1483, Spokane.

HISTORICAL PRESERVATION—A national program for inventory of historical structures, now underway, this month got the cooperation of the Utah Chapter, AIA, who are interested in the problem and plan to undertake the Utah phase shortly after the first of the year. Architect Fred Markham, Provo, is on the national committee for preservation of historical buildings. Along the same idea is the resolution adopted by the California Council for the preservation of the Old Mint at San Francisco. The building, one of only three or four large buildings that survived the 1906 earthquake and fire, is one of the few notable historic Federal buildings and architectural monuments in California. The Mint is considered by architectural critics as one of the finer achievements of nineteenth century architecture. Plans for preservation include making the building into a tourist attraction and a museum for the United States Mints.

Highlights & Sidelights

AVAILABILITY OF QUALITY HOUSING?—The architect's concern for the quality and availability of housing in California has been expressed by the California Council, AIA. They are proposing a joint program with state, county and municipal jurisdictions to anticipate the state's growth and boost efforts to provide housing for its citizens. Two immediate steps are urged: a summary of existing problems to alert the public to need for corrective action, and establishment of a design criteria applicable to all housing. Intent of the Council is to initiate an "imaginative, expansive program in contrast to present restrictive approach." Included are both public and privately financed housing.

SKYSCRAPER SCHOOL—Interesting concept for schools of the immediate future was described at a recent address to the Building Research Institute. The proposal: a skyscraper that would house a business education high school in its first eight stories and 30 stories of commercial offices above that.

UNIQUE PLAN PRESERVES ARCHES—Preservation of the ornate, hand carved stone arches of the Inner Quadrangle, heart of Stanford University campus at Palo Alto, has been assured because of the concern of two professors of civil engineering.

Engineers had expressed a fear that the arches, built more than 75 years ago, might not stand much longer without structural reinforcements. James Bertrand Wells, professor emeritus of civil engineering, and Professor Jack Benjamin of the university civil engineering department, put their heads together to devise an unusual method of steel reinforcement.

The method involved the tearing down of the arches, stone by stone, numbering each stone and erecting a steel framework to support the weight of the arches. Those portions of the stones which would come in contact with the steel were sawed away. Stones were than replaced

numerically. A total of 45 tons of steel columns, trusses and A-frames have been skilfully fitted into the stone work. Because of limited access to the site and the size of some of the steelwork (main trusses span 72 ft.), Bleibler Iron Works, Inc. of Palo Alto, contractor on the job, fabricated much of the steel at the site.

No visual change is apparent in the Spanish mission architecture. However, the stone, much of it delicately hand-carved in 1887, will continue to provide the same beauty as in the past, but will no longer be required to contribute the strength as well.

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El Sobrante Branch Library, Contra Costa County, Calif./John C. Wilson, Robert S. Chang, Architects Cooperative, architects—p. 16

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COVER: Reading room of South Branch Library, Berkeley, Calif./John Hans Ostwald, architect. See page 12.

ABOUT THIS ISSUE: In recent months A/W has endeavored to provide some kind of a theme for each issue, at least to develop several facets of a single subject or building type, rather than just present a hodge podge of unrelated buildings. We've had our gallery of churches, and have explored prebuilt components, and restoration versus re-building. This month we're looking at libraries—not the monumental civic center showpieces, but the smaller branch buildings and rural efforts (the library on Bainbridge Island has prominent and well-used hitching rails). Mostly these were designed for budget conscious or almost budget-less) library districts, and they provide lessons in the delightful results of simplicity. And both the interior and exterior treatments are thought provoking not only to those who must design libraries, but also for those who may have clinics or suburban commercial shops or even classrooms on the boards. We think you will be most particularly pleased with John Rudolph's "mood" thoughts on page 15. The libraries run on pages 11 through 19.

Urban renewal will grasp our attention to ever increasing degrees during coming months and years. A/W will keep abreast of developments in the West, and starts this month with a roundup of amazing work volume on page 6.

Don't overlook the proposed architect's tour of Europe scheduled for March (there's an announcement on page 9). We understand this is no tourist trap, but a serious study of architecture, being promoted by Alitalia Airlines.

NEXT MONTH: High rise in the West, and particularly the effects of code changes in Los Angeles.

THE BUILDING MONTH

Urban Renewal Roundup

URBAN REDEVELOPMENT, URBAN RENEWAL, SLUM CLEARANCE . . . bywords throughout the nation as the problems become of increasing importance. More and more, cities are aware of the downgrading of their downtown areas and are determined to do something about it. Perhaps the most important aspect of renewal and redevelopment is the manner in which whole communities are set thinking and working in terms of renewed civic pride. Emphasis on this phase of building construction is being placed by major cities up and down the west coast. Here is a brief roundup of proposed plans as outlined in this area:

- **PORTLAND**—South Auditorium renewal area will be developed by Portland Center Redevelopment Corp. at a cost of $56.6 million. Skidmore, Owings and Merrill, Portland, prime architects on the job, have included 10 apartment buildings, six multi-level commercial buildings, a 250-room motel and a 25,000 sq. ft. shopping center with parking space for 2300 automobiles. Outdoor areas, including recreational facilities, will harmonize with central landscaping theme of nearby city parks and malls. Development is planned over a five-year period with first phase to begin July 1, 1963 and final completion set for July 1, 1967.

- **SAN FRANCISCO**—One of the first big steps in moderate priced housing in the nation has been taken by San Francisco's Redevelopment Agency. Cost of the project, located in the Diamond Heights area, will be $8.5 million. Some 500 dwellings, including residences and cooperative apartments, have been approved by the agency. Four sites, comprising 23 acres, are located on slopes of Gold Mine and Fairmount Hills. Emphasis on housing was such that it would be "free of project or institutional appearance". Three builders have been selected: Mission Neighborhood Centers, Inc., who will build 138 apartments, designed by Neill Smith and Associates, San Francisco; Robert Chuckrow Construction Co., 275 dwellings designed by Bernard G. Nobler and Clement Chan, Jr., Redwood City architects, associated with Karl Treffinger of San Francisco. Third developer is the San Francisco Redevelopers, Inc., 58 dwellings.

- **DENVER**—Six proposals, ranging from multimillion dollar business and residential complexes to new home for Denver Elks Lodge, are being studied by Denver Renewal Authority for redevelopment of the Avondale Project. The 26-acre project, which two years ago was cluttered with sub-standard houses and commercial establishments, will be developed at costs ranging between $7 and $10 million. Three firms are bidding for the project, with most proposals including apartment units, some low-rise and one or two high-rise, restaurants, arcade shops, office and medical buildings, motel, shopping center, playground and community building. Avondale Redevelopment Associates, a combine of Denver and New York city developers, have submitted plans prepared by architect Eugene Sternberg & Associates. Two other bidders are Avondale Associates, Inc., an organization of Denver real estate developers, and Heftler Construction Co. of Denver and Wallace Investments, Inc., of Dallas, Texas.

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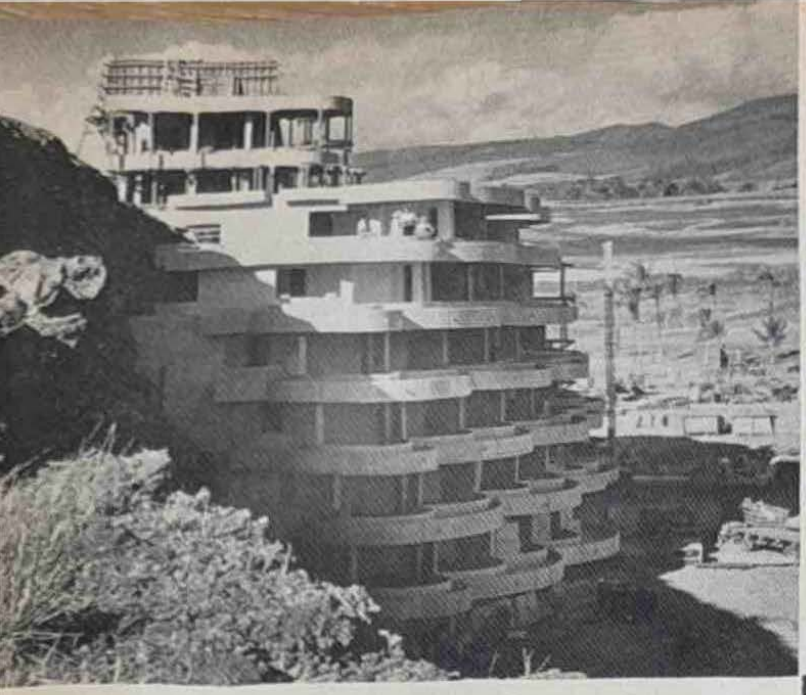
- **SEATTLE**—Aftermath of World's Fair has left man problems and projects confronting the city. Plans fo developing World's Fair site, while hitting variou snags, is proceeding cautiously with plans now bein made to erect a Tivoli Garden concept on the site, an further develop existing buildings for use as conventio halls, permanent Food Circus, science exhibits. Alon with these ideas, the Central Association has plans i process for redevelopment of famed Pike Place Market the waterfront, retail core and government center Pioneer Square. Aim is to strengthen downtown's potential for retailing, office buildings, conventions entertainment, financial and government activities. The Association's Building Restoration Committee is convinced that the way to get action in restoring downtown's older, but structurally sound, buildings, is t show how to invest one dollar and get two dollars back A workshop on building restoration is planned thi winter with property owners and potential investors architects and others invited to attend. Art and landscaping will play a large part in city's downtow redevelopment. Architects are preparing design suggestions for specific locations in downtown area. Proposals will suggest historic sites which can be identified in an interesting manner and serve as important tourist attractions. Landscaped plazas, sites for foundations and sculpture are included. Meanwhile, the push for rapid transit goes on.

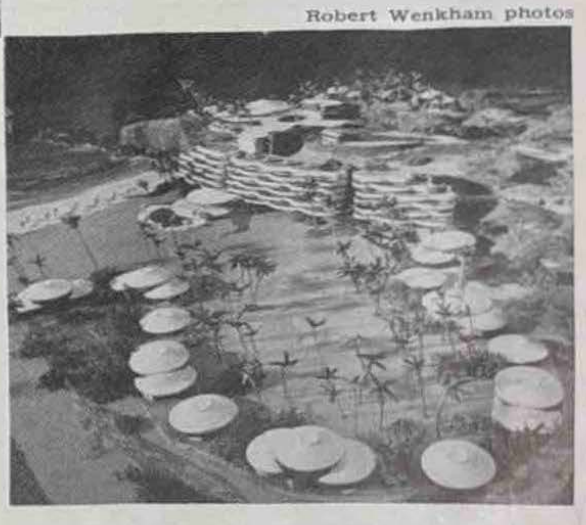
- **POMONA**—Simon Eisner, planning consultant, who worked with city fathers of Pomona, said right combination was found for success of Pomona's new Civic Center Mall, a downtown redevelopment project. The formula: to renew a city, find right leaders and follow a plan. Welton Becket & Associates, architectural firm who created Pomona's plan, said that the close cooperation of the merchants and the civic pride generated by Pomona citizens were the factors in making the plan work.

- **SALT LAKE CITY**—Introduced at recent Sun Valley western regional conference, AIA, was downtown Salt Lake City's Second Century Plan, co-sponsored by Downtown Planning Association and Utah Chapter, AIA. Plans, set on 10 specific points, include a revitalized Main Street and State Street, with covered pedestrian crossings, tree plantings, widened sidewalks; interior block plazas with arcades and malls lined with shops; convention and cultural center; visitor center; art museum and gallery; Memory Grove cultural area, an extension of existing park; redevelopment of present Farmer's Market; Latter Day Saints church improvements, already planned for construction in block east of Temple Square; and a city-county government complex expansion. Plans introduced call for making new face of the city in easy steps starting with item one.

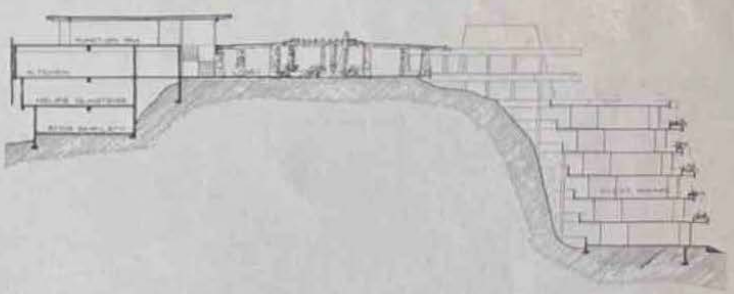


Job of the Month

Robert Wenkham photos



Scalloped lanais (left) will have tropical greenery overhanging textured concrete walls. Below, cottages like seashells on the sand surround the 8-story main building. Lobby and service rooms are at top of cliff.



Scallops and Seashells—Resort Is Integrated with its Site

SCALLOPED CONCRETE GARDEN ROOMS on a sloping rock cliff, surrounded at the base by concrete mushroom cottages, form what must be the world's most unusual hotel, now being completed at Kaanapali, Maui, in the Hawaiian Islands.

The site is a black rock promontory reaching 85 feet high above the sandy beach, with a narrow top accessible from only one direction. The difficulties of the site have been turned into assets by building central facilities (lobby, dining room, cocktail lounge, meeting rooms and offices) in circular forms at the top of the ledge, then dropping down the face of the cliff with 72 rooms in eight stories, each story outset beyond the one above, and all serviced by an elevator shaft through the cliff itself. (See cross section on this page.)

The main building structure is of load bearing concrete walls, with architectural finish concrete. Much of the exposed concrete is textured by use of rough board form liners, and selected concrete areas both inside and outside have incised patterns of Polynesian design. Interior partitions are 6-inch concrete, plastered. Concrete slab floors have sprayed acoustical plaster on the soffits.

The scalloped lanais terminate in tropical gardens with hanging greenery, so that the building is integrated with the cliff—in fact the entire form of the main room block takes its inspiration from the shelf lichen on the ridge coral formations in the area, while the round roofs of the cottages on the beach are formed to simulate the appearance of seashells.

The main block roof is finished as a Japanese garden, with gravel in off-white coral chips, red volcanic cinders and blue-gray crushed volcanic basalt. Exhaust fans and other roof appurtenances are concealed in masses of volcanic rock and redwood planters.

Cottages are wood frame structure with exterior wall studs of Wolmanized Douglas fir, finish in rough redwood board and batten siding.

Owner and builders of the project are Swinerton, Walberg, Westgate and Tait, San Francisco. Sheraton Hotel Corp. will sublease and operate the 250-room hotel.

Architects are Wimberly, Whisenand, Allison and Tong, Honolulu.

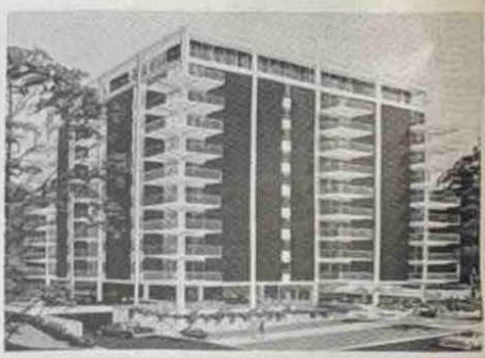
CLASSES IN THE ROUND AT SEATTLE

Facilities at East Senior High School include five round classroom units, a rectangular-shaped physical education plant and cafetorium. Seven boiler rooms accommodate heating system. Steel structure has laminated wood columns, beams. Architect: Steinhart, Theriault & Anderson.

PROJECT PREVIEW

NEW ORLEANS LOOK: SAN FRANCISCO

Private balconies, designed with iron arches and railings, will provide a New Orleans look but will be compatible with San Francisco styles and downtown weather, in the new Handlery Motor Hotel. The 10-floor building will feature three floors of parking, roof gardens, heated swimming pools. Architect: Mario L. Gaidano.



TOLSTOI HOUSE: DENVER SENIOR CITIZENS

The 10-story building has 71 apartments and will occupy six lots and serve as a combination apartment and club house for Denver's Tolstoi Guild, a philanthropic society. Top level will be reserved for lounge and recreation area with patio, hobby rooms as part of lounge expanse. Each apartment will have its own lanai. Architect: Ken White and Associates.

OAHU OCEANARIUM

Sea Life Park, a $1.2 million world marine research and education oceanarium to be constructed on a 118-acre site. Owners envision a shell-roofed circular glass tank around which viewers may walk to see all species of tropical marine life. An underwater walkway will join a shell-covered educational auditorium. Plans include museum, pools, gift shops, administration buildings. Architect: John Graham & Company.

new firms

Stanley Mason Goldberg and Bernhard Lyng Nielsen have opened an office for the general practice of architecture at 1320 Pearl St., Boulder, Colorado.

Formation of a new architecture firm to be known as Clawson and Brixen, Architects, has been announced by John N. Clawson and Martin Brixen. New offices will be constructed at 989 East Ninth South, Salt Lake City.

Buff, Straub & Hensman, Architects & Associates, have opened offices at 5247 Invergordon Road, Scottsdale, Arizona, with Calvin C. Straub, professor of architecture at the University of Arizona, in charge. The firm's headquarters are in Los Angeles.

Clayton Young, consultant on Seattle's World Fair, has announced the return to private practice under the firm name of Clayton and Jean Young and Associates, architects, at 2366 Eastlake Ave., Seattle.

Bill J. Blair and Associates, Oklahoma City architectural firm, has established an office at Suite 623, Guaranty Bank Building, Phoenix. Associate in charge will be M. L. Vanlandingham.

Architect Phil Gilmore has opened an office for the practice of architecture at 487 11th Ave. East, Eugene. His wife, Dorothy Gilmore, will be an associate. Mr. Gilmore, who has been an instructor in architecture at Portland State College the past four years, will continue teaching in the School of Architecture at the University of Oregon.

new addresses

Willard D. Johnson & Associates to 1739-A Grand Avenue, Billings.

Daniel N. Salerno, to 459 Culebra St., Del Mar, Calif.

James S. Moore, Medical Planning Associates, to 1601 Rambla Pacifico, Malibu, Calif.

Olsen & Sands, Architects, to 207 South Franklin St., Juneau.

Thomas M. I. Leake, to 5 Dodd Building, Newport, Oregon.

Davidson & Maurer, Architects & Engineers, to 3518 Cahuenga Boulevard West, Los Angeles.

Albert R. Williams & Associates to 278 Post S., San Francisco.

Broome, Selig & Oringdulph to 227 N.E. 122nd Ave., Portland, from Gresham, Ore.

Bob McCabe, Architect, to 813½ J Street, Sacramento.

Wilton Frank Minckley, Architect, to 200 South California Ave., Palo Alto.

Mary Alice Hutchins to 2943 Kalakaua Ave., Honolulu, from Kailua, Hawaii.

appointments

Ralph H. Burkhard, Seattle architect, has been named by the American Association of School Administrators, to be on the school design jury to select the best high school, junior high and elementary school built this year in the United States and Canada. Some 300 submissions have been made with awards to architects and educators being made at the annual convention of the AASA in Atlantic City next February. Mr. Burkhard will be architect-speaker at the convention.

Robert L. Durham, FAIA, Seattle, has been appointed chairman of the American Institute of Architects 1963 Honor Awards Jury. He will meet with other members at the Octagon, Washington, D. C., Jan. 28 to 30 to consider programs submissions.

John Lyon Reid, FAIA, San Francisco, has been named to the jury for the R. S. Reynolds Memorial Award presented annually by the American Institute of Architects for outstanding design in aluminum. The award will be presented in May.

Victor Steinbrueck, Seattle, who has been in Japan on a six months grant from the University of Washington's Center of Asian Arts, has been appointed acting chairman of the Department of Architecture at the university.

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Keith Richardson, Salt Lake City, has been named liaison representative to the Producer's Council from the American Institute of Architects and Producers Council, Utah Chapter.

Five Northwest Regional, AIA, chairmen have been appointed by Robert Durham, regional director. They are: John E. McGuire, Tacoma, chapter affairs; Keith Maguire, Portland, hospitals and health; John McGough, Spokane, professional practice; Bob Wilmsen, Eugene, public relations, and Oswald Berg, Bozeman, schools and education facilities.

awards

Three members of the University of Arizona's Department of Architecture faculty, and an associate professor of civil engineering have won first prize in the National School Fallout Shelter Competition. Winners of the $15,000 national award are UA architects Samuel W. Williams, associate professor; James A. Gresham, assistant professor; Ellery C. Green, instructor; and Dr. Howard P. Harrenstien, UA associate professor of civil engineering. Winning design, of an elementary school, including a fallout shelter, was unusual because the entire building can be constructed entirely above ground.

Ernest J. Kump, Palo Alto, has been named recipient of the first American Lumber Industry Award for outstanding wood design. Citation, made at the National Lumber Manufacturers Association annual meeting in Miami Beach, was based primarily on the design of the 39 structures comprising Foothill College, Los Altos, done by associated firms of Ernest J. Kump and Masten and Hurd, architects, San Francisco.

elections

At the second annual Alaska Chapter, AIA, meeting, the following were elected to office: Linn A. Forrest, Sr., Juneau, president; F. Wayne White, Fairbanks, vice-president; Wallace J. Wellenstein, Anchorage, treasurer; Jennings H. Graham, Juneau, secretary; Douglas Ackley, Fairbanks, and Edwin Crittenden, outgoing president, Juneau, board members. Next annual meeting is scheduled in Fairbanks in 1963.

Members of Utah Chapter, AIA, have elected Roger Bailey, Salt Lake City, president for the coming year. Other officers are: Bruce R. Dixon, Provo, vice president; Robert L. Springmeyer, Salt Lake City, secretary; John L. Giusti, Sandy, treasurer; M. E. Harris, Jr., Nathan Woolley and William Rowe, all Salt Lake City, members of the executive committee.

Charles A. Kestle, Butte, has been elected president of the Montana Chapter, AIA, succeeding A. Calvin Hoiland, Great Falls. Also elected: Robert E. Fehlberg, Billings, vice president; Hurlbert C. Cheever, Bozeman, secretary-treasurer; David Davison, Great Falls, director. Annual fall meeting was held in Helena.

Southwest Washington Chapter, AIA, chose Robert M. Jones, Tacoma, as president for 1963 with Gordon Johnston, first vice-president and Marshall Perrow, second vice-president. Other officers elected: Ben Lee Wilson, secretary; Russell Ziegler, treasurer; and K. Walter Johnson and John McGuire, trustees.

Joseph H. Rudd was installed as president of Oregon Chapter, AIA, at December 19 meeting. Taking office also: John W. Foster, vice president; George Whittier, secretary; Marvin Witt, Jr., treasurer; and Donald S. Blair, Neil Farnham, hold-over directors; Frank C. Allen and R. L. Bloodworth, two-year directors. Robert B. Martin, past president, will serve on board one year.

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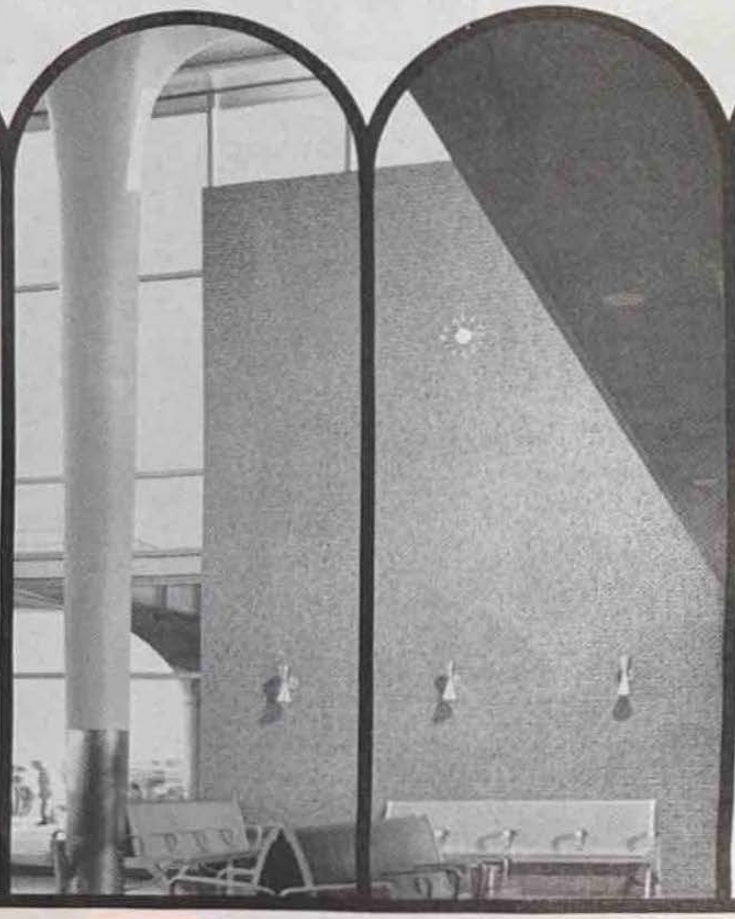

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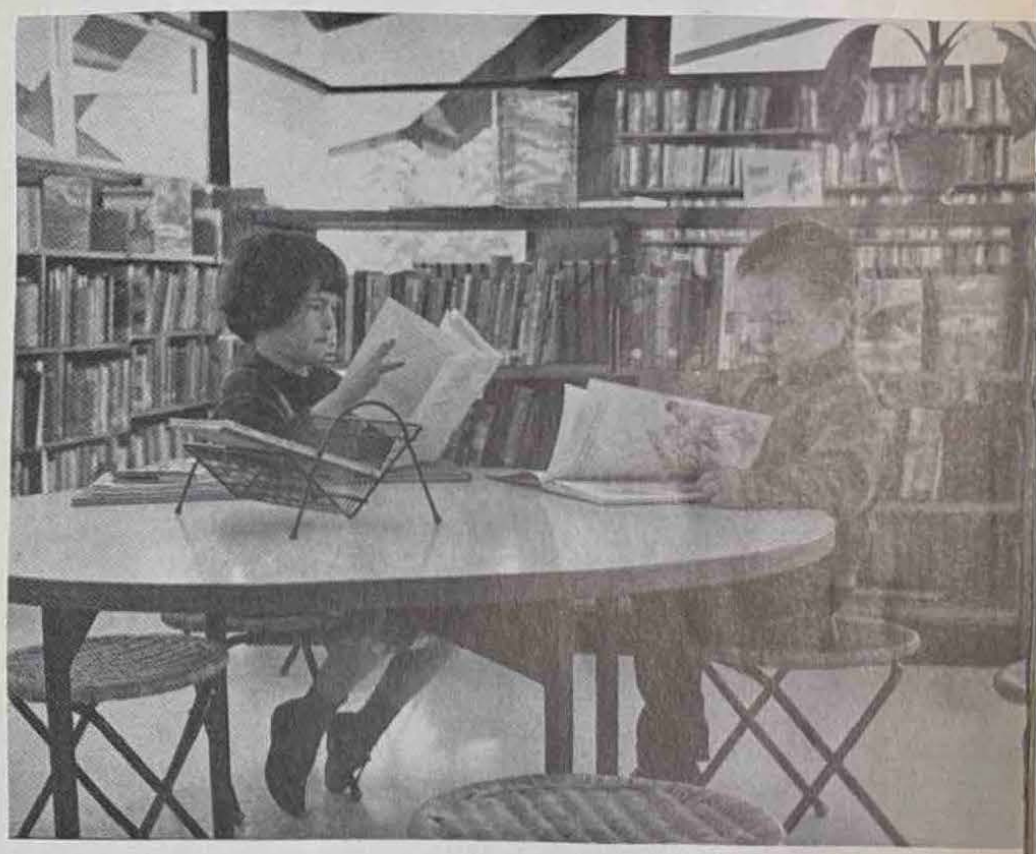
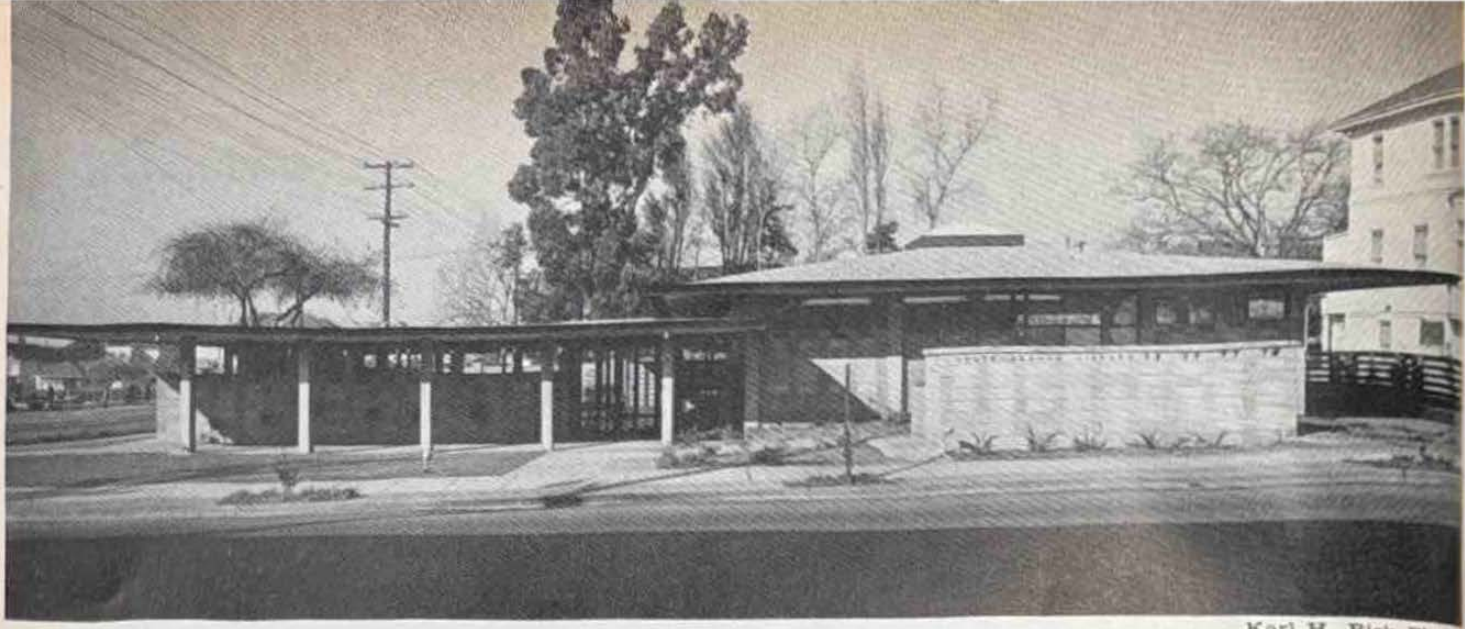
Architecture/West

Looks at Little Libraries



NO LONGER are libraries erected as monuments enclosing musty tomes. The newest are blended to their sites, made open and cheerful, inviting and challenging the imaginations of those who want to try their educational and cultural wings. Small budget buildings—these on the following pages—yet each upgrades and inspires its community . . .



Karl H. Riek Photo

Pleasant Simplicity

SOUTH BRANCH LIBRARY
Berkeley, California

John Hans Ostwald
Architect

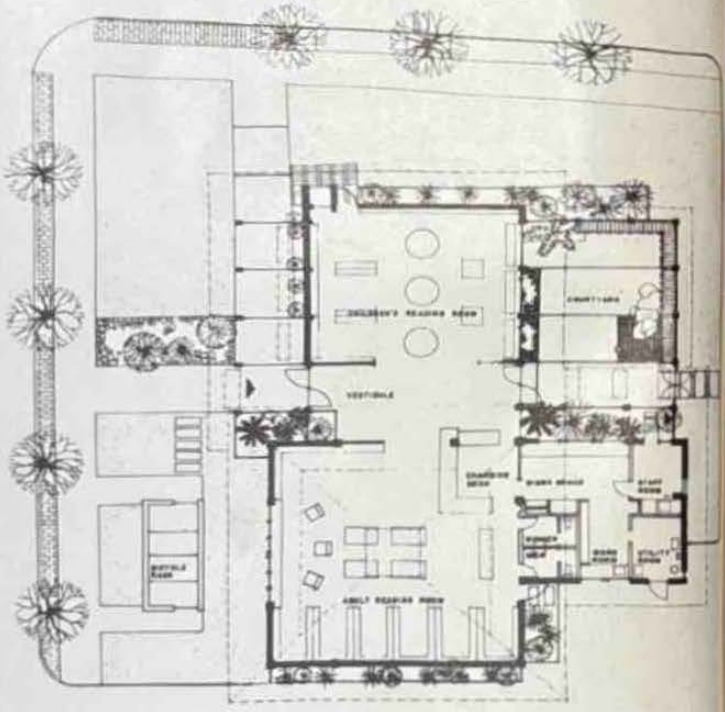
J. Vila Construction Co., general contractor

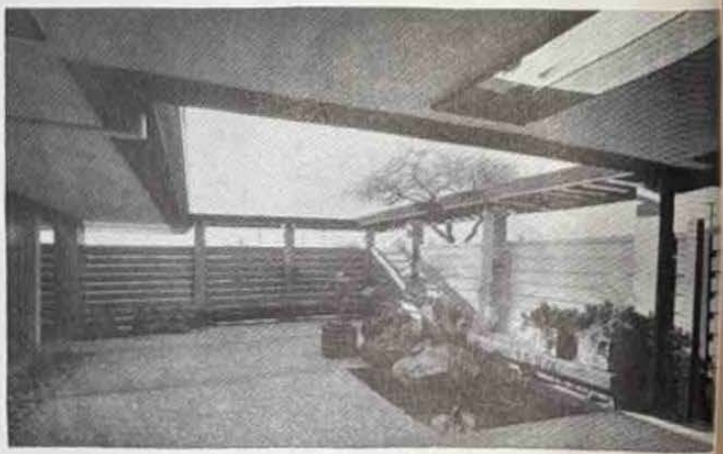
SIMPLICITY has to be the keynote for a limited budget (non-bond issue) library building program, but simplicity can have its own charm as revealed in the pictures on these pages.

This library for 11,500 books has a central reading room with adults and children separated by a movable partition, a workroom for the librarian, storage room and toilets. The colored slab floor carries radiant heating, concrete block walls are exposed inside and out. The roof structure rises 16 feet over the reading room, culminating in a skylight eight feet square, pleasingly framed in stained tongue and groove hemlock.

All daylight openings are directed towards self-contained patios, gardens and a 600 square foot outdoor reading-room—the surrounding neighborhood is relatively unattractive.

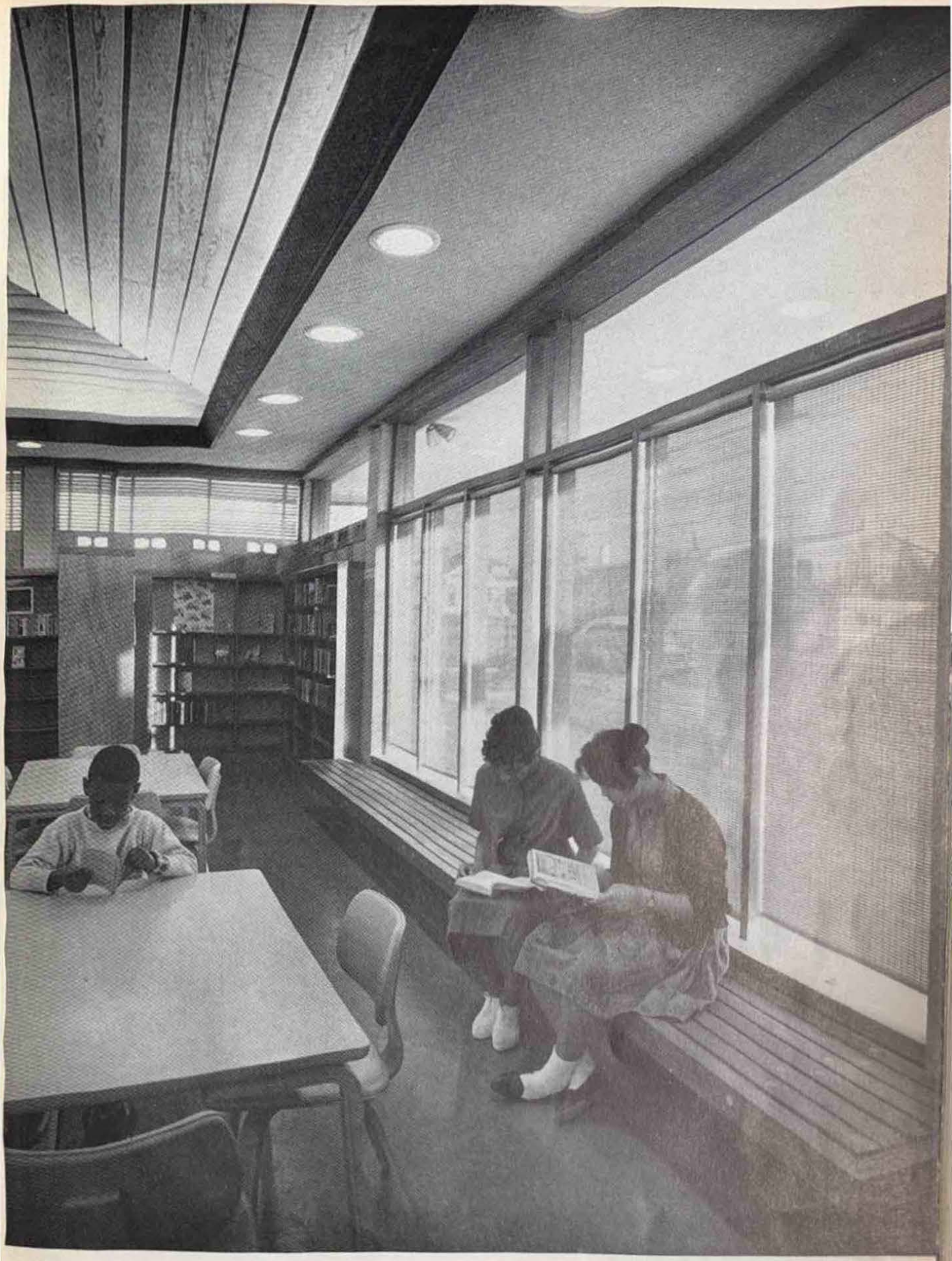
So while it is almost axiomatic that much must be done with little when building branch libraries, it does not follow that they must be purely functional. Here there is a quiet sense of well-being, from the simple window seats to the warm sloping ceiling and out to the pleasant, screened reading yard. ■

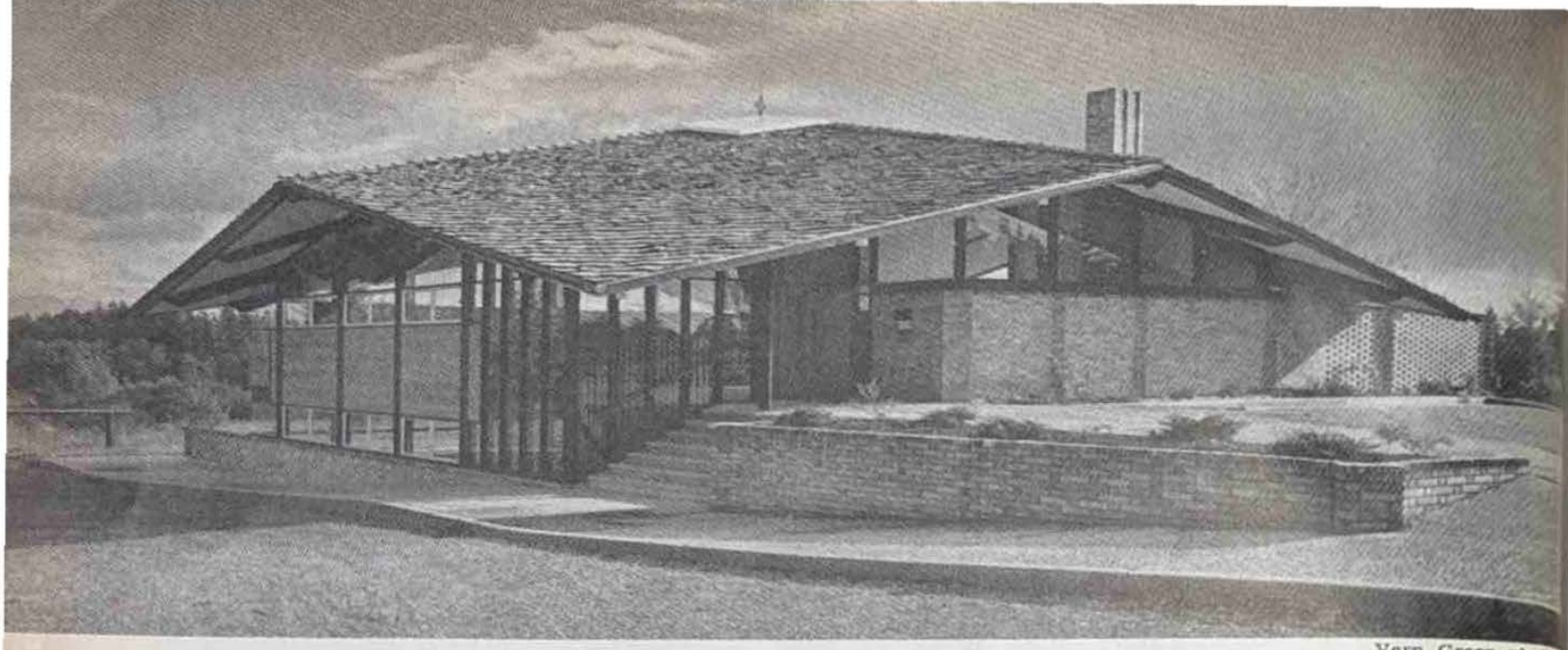




OUTLINE SPECIFICATIONS

Structure: Reinforced concrete grade beams on piers, concrete columns and laminated wood beams.
Exterior: Concrete block curtain walls, Best Block and Basalite; Redwood trim, Cabot stained.
Floors: Concrete slab, Conrad Sovig color hardened; Amtico vinyl tile in offices.
Roof: Built up roof, tar and gravel.
Interior: Exposed concrete block walls, some Lauan plywood; Hemlock and plaster ceilings.
Windows: Kelco louvers, operating sash.
Lighting: Pryne, Marco, Lightcraft and United Light and Ceiling Co.
Skylight: A. E. Lilly Co.
Plumbing: American-Standard.
Heating: Gas fired radiant.
Insulation: 1½" batts.
Area: 3,560 sq. ft. plus 600 sq. ft. patio.
Cost: $60,600
Cost per Sq. Ft.: $16.00
Date of Completion: May, 1961.





Vern Green photos

Friendly Center for Friendly People

A LIBRARY designed to match the mood and temperament of semi-rural Bainbridge Island, across Puget Sound from Seattle, must have loggers' peaveys for front door handles and boat hooks for interior door handles, to satisfy the thematic treatment of its imaginative architect.

The building grew from the basic thinking of the architect as he strove to answer the question. "What should the mood of a semi-rural library be?" He sought a building that both children and adults could love—dignified, cheerful but not frivolous.

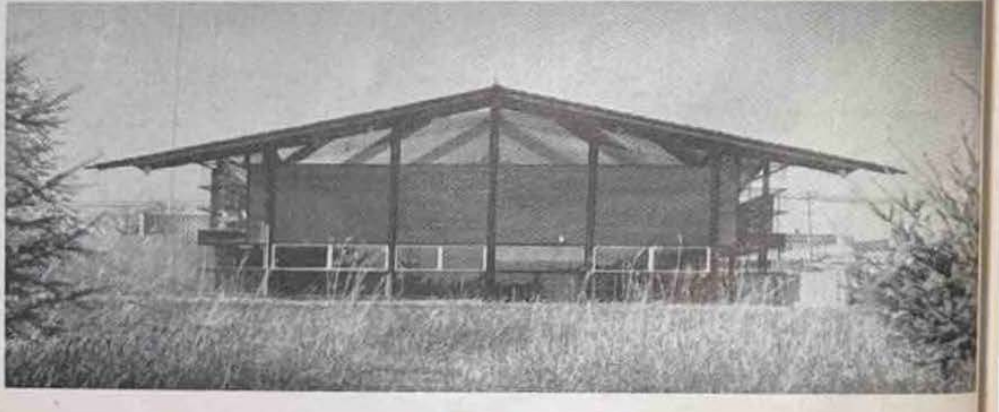
The results—an open, friendly sort of building, easy to enter and easy to leave, reflecting the native cedars and clays, replete with hitching rails for horses, the peaveys and boathooks, rain gutters leading to reflecting pools, a central skylight to provide natural illumination on the many naturally gray and cloudy days.

The lines of the building are strong, yet gentle, in two floors 48 by 48 feet, of red cedar siding, Cascade brick and glass. A cedar shake roof topped by a 12-by-12-foot plastic skylight is supported by glued laminated beams and wide flange steel columns at the center of each wall, tied with diagonal rods concealed in the roof framing. The skylight plus clerestory lighting permits bookshelves at the perimeter of the reading room, while other, waist-high, bookcases fan out into the room at angles that strengthen the pattern of roof beams above—heightening the architect's expression of a feeling ". . . like sitting under the branches of a great and favorite tree to read a book."

BAINBRIDGE PUBLIC LIBRARY
Bainbridge Island, Washington

John Harrison Rudolph
Architect

Anderson Construction Co.
General Contractor



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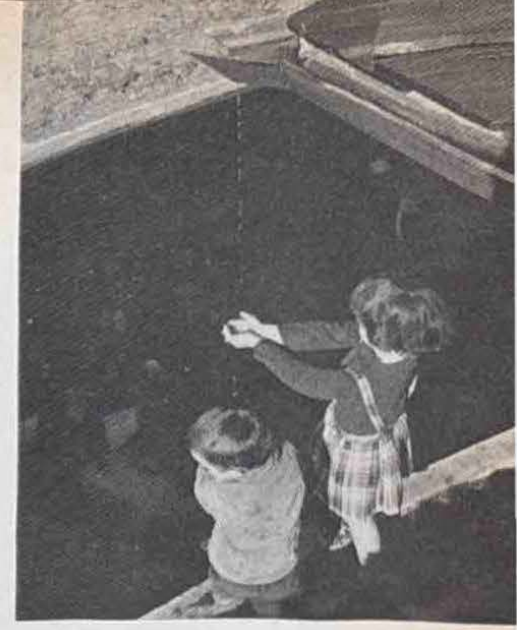
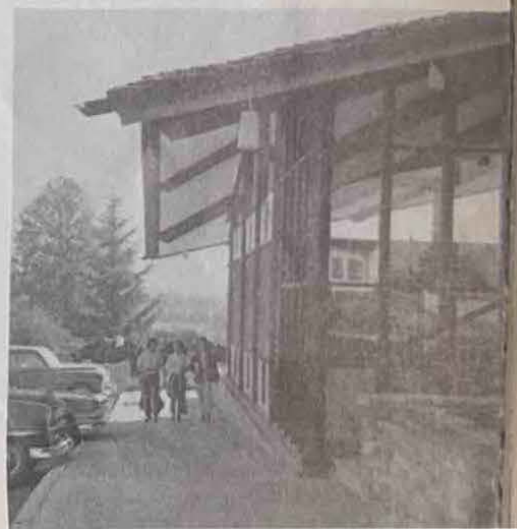


. . . a refuge from ugliness and disorder, a launching pad for adventures of the mind . . .

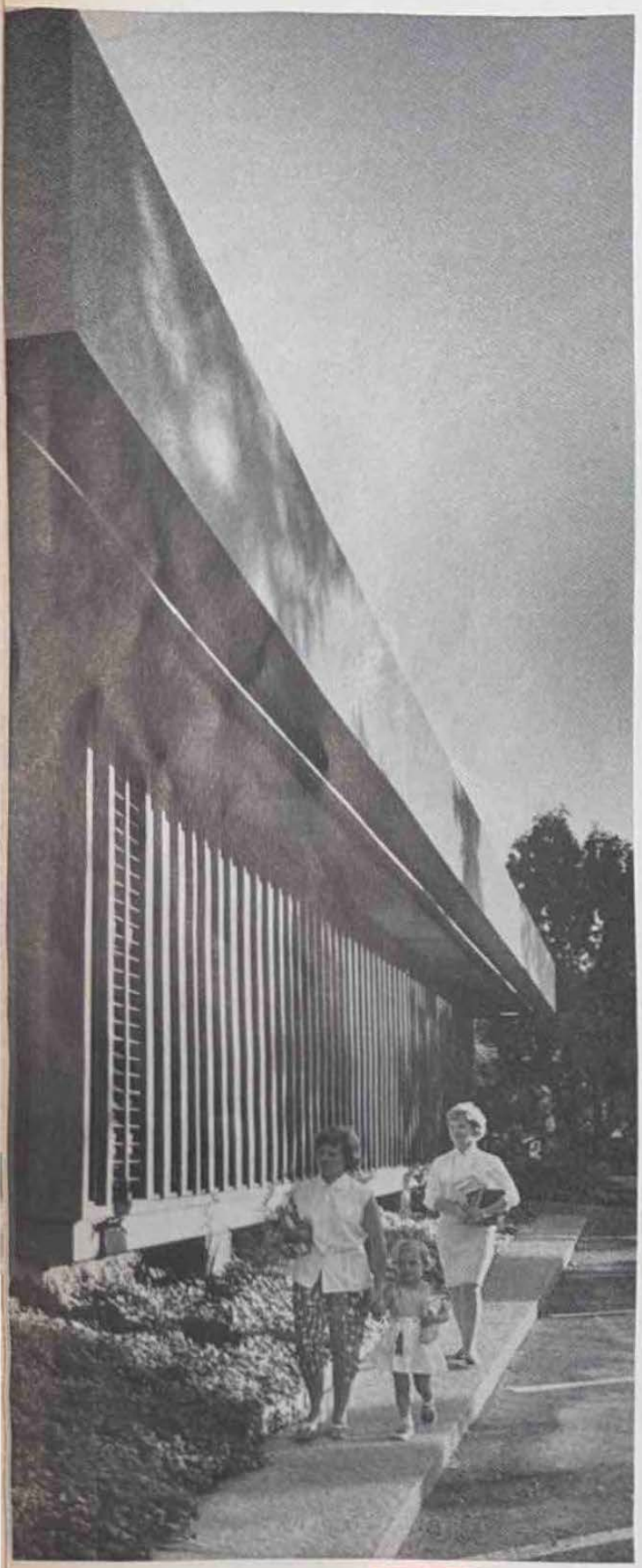
. . . like sitting under the spreading branches of a great and favorite tree . . .

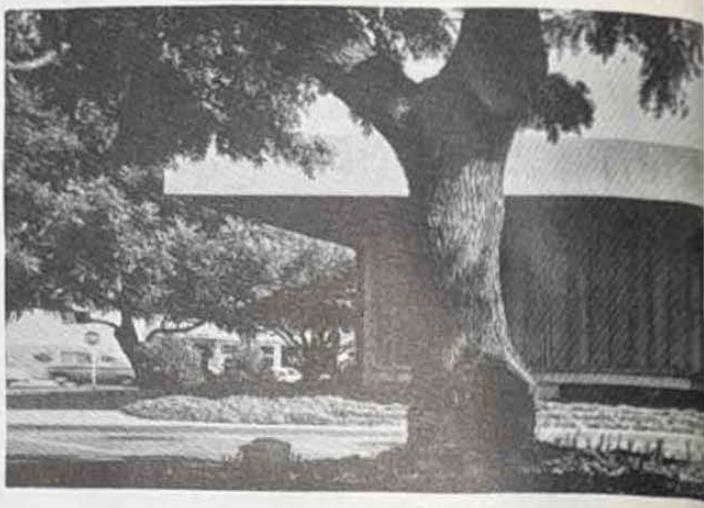
. . . a place for recreation as well as for serious study, a forum, a meeting place . . .



. . . obviously open to all, easy to enter and easy to leave ■

Integration with the site: The Library That Might Have G

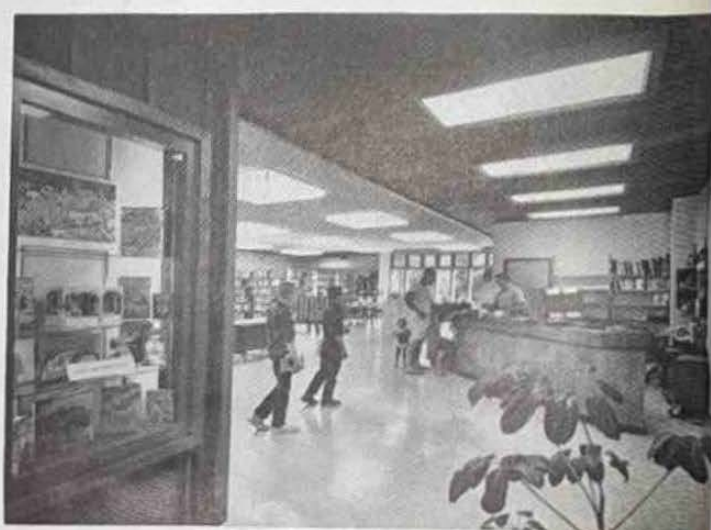




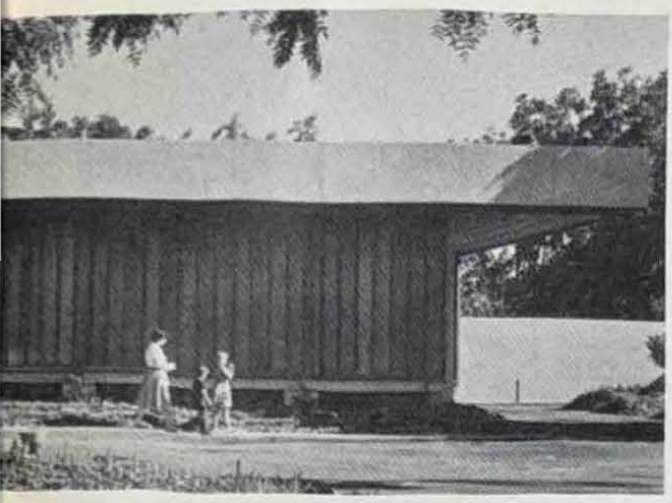
ONE OF THE PRINCIPAL REQUIREMENTS for the librar at El Sobrante was that the building take fulle advantage of its site, a grove of picturesque, gnarle old trees. This the architects did, as these pictures show

They built low under the spreading branches, ye skylighted the interior reading areas to perfection. Th building is low and inviting, yet impressive with it broad stuccoed roof fascia. Vertical battens on th redwood exterior add strength to the appearance an seem to support the massive roof.

As with the other libraries in this brief study El Sobrante was a low budget project, yet it seems t have developed ideally all of the necessities of spac and light, with the added appeals of an inviting an stimulating appearance. Vinyl flooring and rubber bas are quiet and easy to maintain. The stucco an redwood are long lasting and relatively maintenance free. There is acoustical treatment where needed, an ceiling panel lights. First class treatment in a smal (3,500 square foot) building at less than $18 per foo



h the Age-old Trees

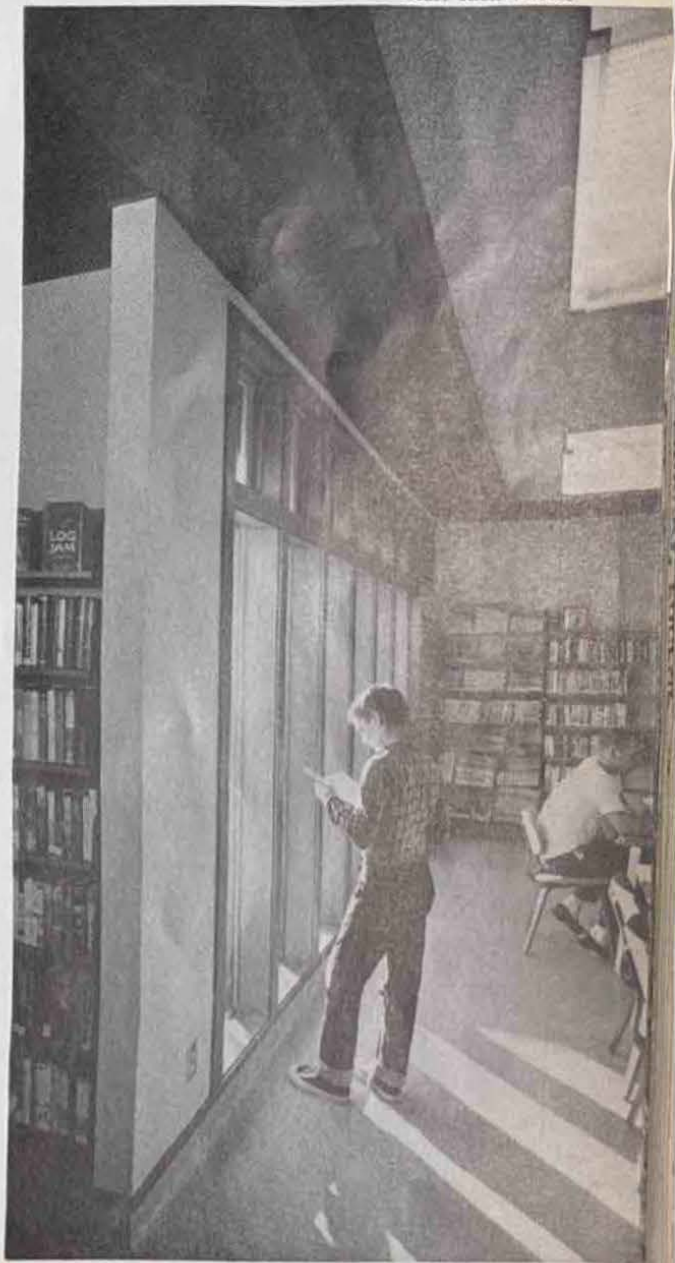


EL SOBRANTE BRANCH LIBRARY
Contra Costa County, California

John C. Wilson, Robert S. Chang, Architects Co-operative, architects

Goyak Construction Co.
General Contractor

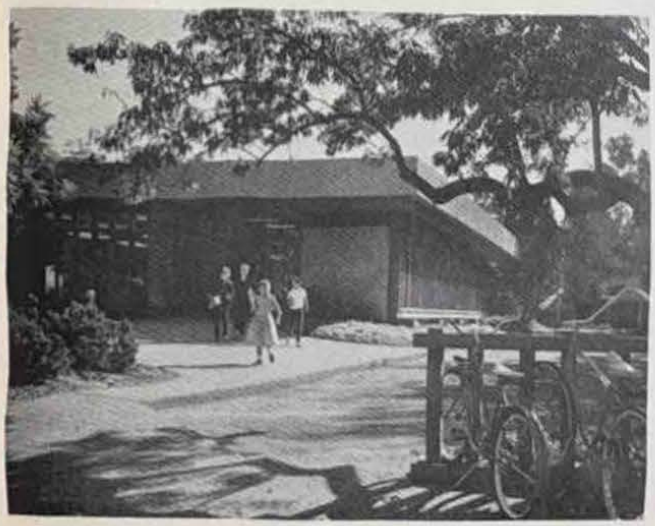
Karl Riek Photos

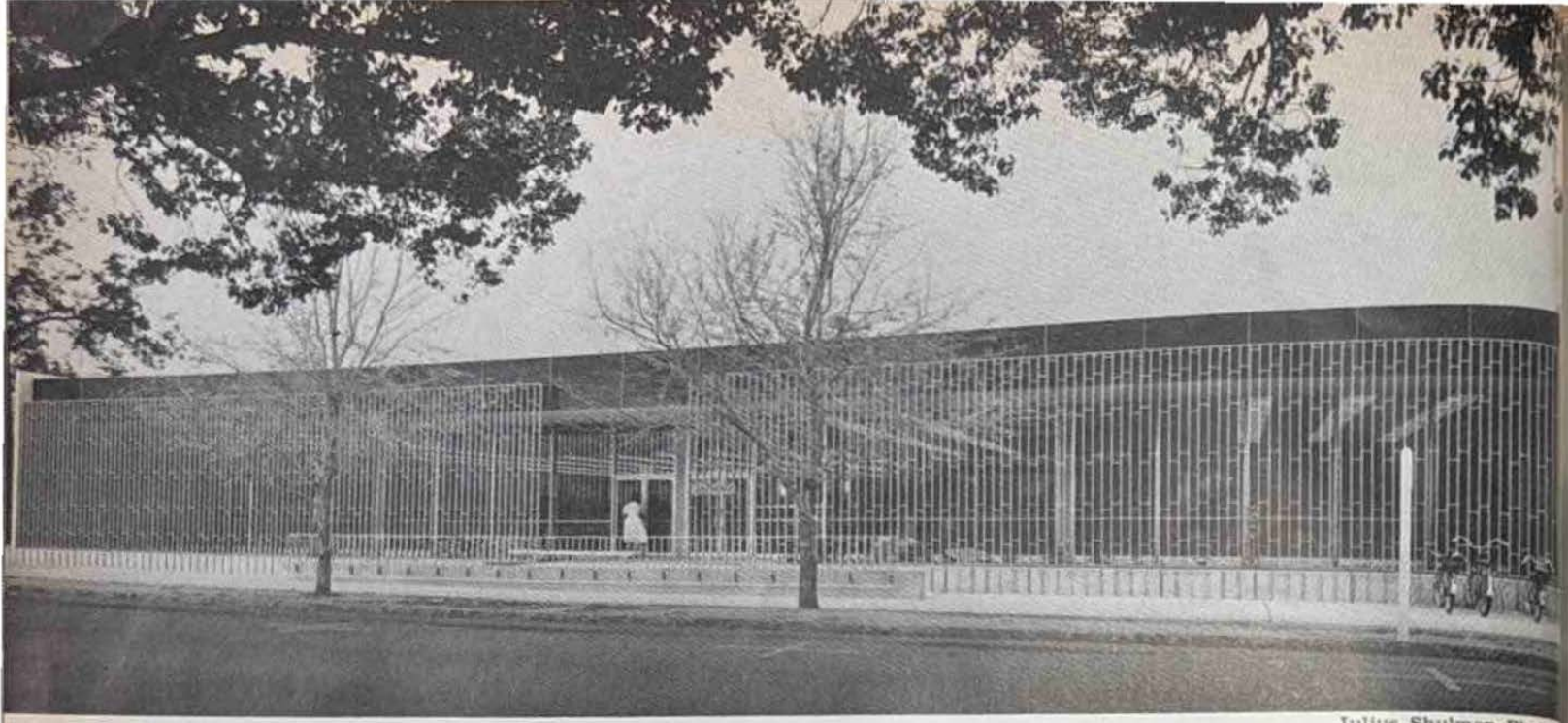


Of significance—the El Sobrante library project is as well integrated as its building is integrated to its site. It is a cooperative effort in which unincorporated El Sobrante is the site, the Contra Costa County Service Area Library financed construction, the county library department furnished 14,000 books and the staff —and the facilities also are available to the City of Richmond. ■

OUTLINE SPECIFICATIONS

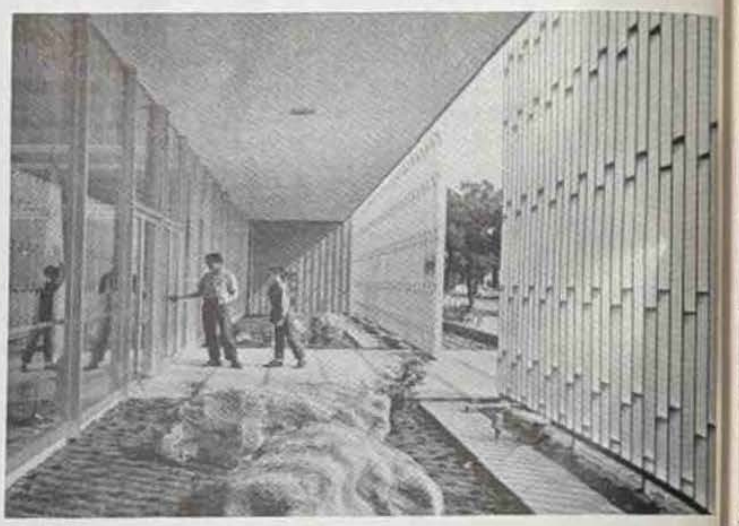
Structure: Concrete slab, steel and wood framing and beams.
Exterior: Redwood siding, treated with Woodlife; stucco trim and fascia.
Interior: Fir trim, plaster on gypsum, acoustical plaster on mesh.
Floors: Concrete slab, vinyl tile finish.
Ceiling: Exposed Redwood, plaster.
Windows: Aluminum frames and sash.
Roof: Built up, gravel surface.
Total Area: 3,500 sq. ft. **Cost:** $63,000 (building only).
Cost per Sq. Ft.: $17.67 **Date of Completion:** August 1961.





Julius Shulman Photos

Library Planned for 100% Expansion



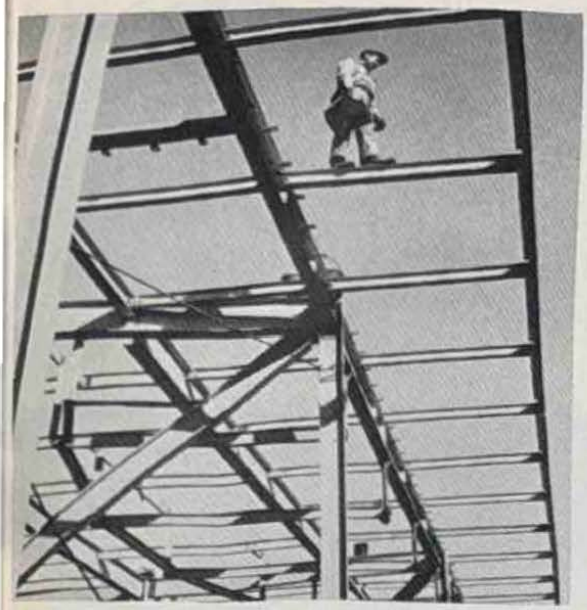
To THE CASUAL OBSERVER the most appealing feature of this library building is the attractive aluminum solar screen across the entire street side. This casual observer probably would not realize that the screen is made attractive by the clean, simple lines of the steel frame and concrete structure.

To the professional man the building is even more interesting with the realization that the major design requirement was for a structure that could be expanded 100% in future years. The building now has 13,900 square feet on the main floor and 4,600 square feet in the basement (at a total cost of $253,700).

Floors are terrazzo on concrete slab. Walls are precast concrete tilt-up—two of them tack-welded to structural steel columns that can be released at a later date. The front wall is comprised of standard aluminum and glass window wall units which can be matched at the time of expansion. The structural system is of tapered steel girders spanning between concrete exterior columns and steel interior columns. Roof is wood framed over the steel girders.

The total effect gained by utilizing an expandable design thus is one of openness and simplicity, conducive to a well lighted, orderly library treatment. ■

CITY LIBRARY, Ontario, Calif. • Harnish, Morgan and Causey, architects • Campbell Construction Co., general contractor



Steel frame library building utilizes bolted beams everywhere except at deck and canopy, where beams are welded. Beams at left curve to form outline of lecture platform in a 250-seat sloping auditorium.

Diagonal bracing is evident in this view of completed brick and glass curtain wall area. Note vertical columns clear to the frame line. Loads are not transmitted to the window mullions.

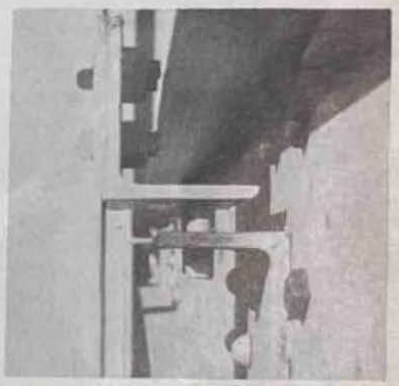
Marriage of steel and face brick has provided an economical and attractive community cultural center for San Leandro.

Walls of Movable Glass Have No Load Transfer Problem

A COMBINATION of welded and bolted steel members, together with an unusual pinned window mullion treatment, has given this community cultural center and library at San Leandro, Calif., great wall areas of glass and open spaces.

The building has 41,000 square feet of useful space for 120,000 books, lecture halls and meeting rooms in one story, with a utilities plant in the basement and ventilating equipment in a penthouse. It is steel frame construction with face brick and glass curtain walls, brick columns.

The large areas of glass are free to move independently of the frame, on sliding pin connections, to permit vertical deflection of the roof and mezzanine members without transmitting load to the window mullions. Pin connections allow one half inch movement vertically and are positioned with 1/16-inch vertical tolerance.



Pins which may move vertically permit roof to deflect without transferring load to the windows.

At positions where the greatest lateral stress occurs, columns are diagonally braced with 10-inch steel sections. Where diagonal braces reach column bases, shear is resisted by friction between the base plates and footings by tensioning of high strength anchor bolts. Columns and bracing connections are made with ¾-in. bolts. Beam to beam connections are made with machine bolts, deck and canopy beams are welded.

Architect is Francis Joseph McCarthy, San Francisco; structural engineer, A. V. Saph, Jr.; general contractor, F. P. Lathrop Construction Co., Berkeley.

Products in Action/ Silentwall room divider hailed as a . . .

Sliding Partition That Really Shuts Out Sound

A ROOM DIVIDER "that really works" has been installed in the auditorium of the Boulder City, Nevada, Junior-Senior High School, and the enthusiastic school officials claim that it is possible to hold a speech class in one section of the auditorium while the band is practicing on the stage.

This is an important development for school districts that cannot really afford to have an auditorium (which traditionally is in use no more than 10% of the time even for school and community activities combined). Movable partitions that really work can convert such a building to 100% usage for large classes and for certain class activities that ideally require greater space than a normal classroom provides.

At Boulder, the auditorium has a main area and two wing areas at the rear. Two Koppers Co. "Silentwall" automatic walls can convert the two wings in two minutes into large-group instruction spaces that have as much privacy as can be gained with a 4-inch brick wall.

The Silentwalls are built of soundproofed panels joined so that they operate in a series of accordion folds—electric motors do the job and fold the doors back into recesses in the walls.

While the panels are highly-effective sound suppressors in themselves, any movable wall is by definition surrounded by a continuous crack through which noise passes. To overcome this, the Koppers wall is sealed by a pneumatic system which automatically goes into action as soon as the wall is in place. This system includes a series of inflatable gaskets. Air pressure, applied after the wall is in place, pushes these neoprene gaskets against the top and bottom of the wall. A tight seal is thus assured. Other gaskets are located flush with the walls and as backing to each hinge, thus making a complete acoustical seal.

Folding partition photographed partially open to show band practicing on th far side while teacher conducts chalk talk on blackboards that are part of th doors. When fully closed, pneumatic neoprene gaskets completely seal the doo develop same sound resistance as a 4-inch brick wall.

The experimental wall was develo ed by the Metal Products Division Koppers Co. in cooperation with th western regional center of Educatio Facilities Laboratories, Inc., at Sta ford University.

Architects for the building at Bou der are Walter Zick and Harris Sha Bolt, Beranek and Newman, Inc., we acoustical consultants.

contemporary classics

The screen designs of Louis Sullivan, Chicago architect, have been adapted to anodized aluminum and are available in several color combinations. Patterns include screens based on the Golden Doorway at the 1893 World's Fair. The panels can be mounted surface to surface, or from ½ in. to 4 in. apart, for sun control or special effects. Two or three screens can be combined, giving a three-dimensional effect.—Morris Kurtzon, Inc., (A/W) 1420 South Talman, Chicago 8, Ill.

budget tile

Ceiling style at a low price is achieved by four new tile patterns from Armstrong. The Georgian pattern features a nubbly surface texture with a three-dimensional effect; Crestmont is an embossed design; Golden Spray has random gold metallic flecks on a pure white background; Cushiontone includes hundreds of tiny perforations blended into the pattern for acoustic control. All four ceiling tiles have tongue-and-groove joints to facilitate installation. — Armstrong Cork Co., (A/W) Liberty and Mary Sts., Lancaster, Pa.

instant interiors

Pre-decorated wallboard is designed to provide virtually maintenance-free walls for residential, commercial and institutional buildings. The finish consists of vinyl covered with clear protective plastic, embossed to a linen texture. Eight solid colors are blended into the laminate to give non-fading washable surfaces. Aluminum moldings with matching vinyl finishes are available to complement the panels, which are 4 ft. wide and 8, 9 or 10 ft. long.—United States Gypsum Co. (A/W), 300 W. Adams St., Chicago 6, Ill.

warm plate glass

A new shade has been added to the heat-absorbing, glare-reducing glass spectrum. Solarbronze is described as a warm gray, tawny shade similar to dark topaz with a slight rose tint. It may used as a component of curtain walls and glass-clad building facades, as well as in sliding glass doors and insulating windows. The warm-gray glass will also be produced in a knurled surface pattern for use in partitions and door panels. — Pittsburgh Plate Glass Co., (A/W) 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.

simple system

Function is foremost in a new partitioning line called the Designer Series, which features a single-unit extruded aluminum post permitting four-way access without supplementary fastening devices—post covers, interlocking keys and link plates are eliminated. The black vertical strips on the posts are actually revealed gaskets, doubling as a decorative element when not receiving panel components.—Aetna Steel Products Corp. (A/W), 730 Fifth Ave., N.Y. 19, N.Y.

cool troffer

An all-aluminum troffer that can be used for cooling, heating or exhausting has been produced in a complete range of sizes from 1x2 ft. up to 2x8 ft., with a variety of lengths from which to choose. The air may be directed vertically or horizontally or to any degree by turning a valve. Thus the same unit can be used to direct the air down in a high-ceilinged room, or in a horizontal direction in rooms with low ceilings. — Thermotank, Inc., (A/W) 11191 Lappin Ave., Detroit 34, Mich.

glass-mat ceiling

Mineral fibers and a resin bonding agent make up an acoustical ceiling finished with glass-mat laminate and bright white paint. The ceiling, which absorbs up to 90 percent of sound striking its surface and has a light reflection value of .81, has received a two-hour UL fire rating. The textured surface is easily sponged off, reducing the need for maintenance painting. The ceiling panels are square-trimmed for lay-in installation in exposed grid suspension systems. Called Protectone Acoustiform, the panel is newest member of the firm's fire-rated ceiling assemblies.—The Celotex Corp. (A/W), 120 S. LaSalle St., Chicago 3, Ill.

non-nail fastenings

Completing a line of self-nailing fastenings, Component Clips have hundreds of applications in wood construction. Applied with a regular carpenter's hammer, clips do not require the "third hand" needed for ordinary fastenings. The clips have integral barbed nails for increased holding power and are made of 18 gauge zinc-coated steel. With only nine sizes of clips, any truss can be made.—The Panel-Clip Co., (A/W) 22506 Orchard Lake Road, P. O. Box 423, Farmington, Mich.

handcrafted first impressions

To meet a growing awareness by architects and designers that the mood and motif of a home begins at the front door where first impressions are made, the Schlage Lock Company is introducing a selection of handcrafted hardware designs. The Haida, newest in the line, denotes the rich heritage of the vanishing North Pacific Indian culture. All custom designs are in standard or special finishes and are painstakingly finished by artisans of the old guild tradition. A booklet of custom hardware designs is available.—Schlage Lock Company (A/W), 2201 Bayshore Blvd., San Francisco.

dancing droplets

Patented fountain heads said to be the first basic improvement in fountains in 4000 years employ a rotating, pendulum action that discharges large individual droplets of water in tiers and plumes. The nozzles may be adapted to fit existing fountains and reflecting pools. The fountain shown achieves its effect with only one rotating, oscillating element.—Rain Jet Corp., (A/W) 301 So. Flower St., Burbank, Calif.

spillproof flooring

An industrial flooring designed for extremely severe usage in industrial applications is impervious to common chemicals. If something is spilled, there's no worry because the surface is also skidproof and slipproof, in addition to being non-absorbent. The material can be poured and troweled over concrete, brick, tile, wood, terrazzo, and most metals.—Terrazzite Association of America, Inc. (A/W), 2203 W. Malone, San Antonio, Tex.

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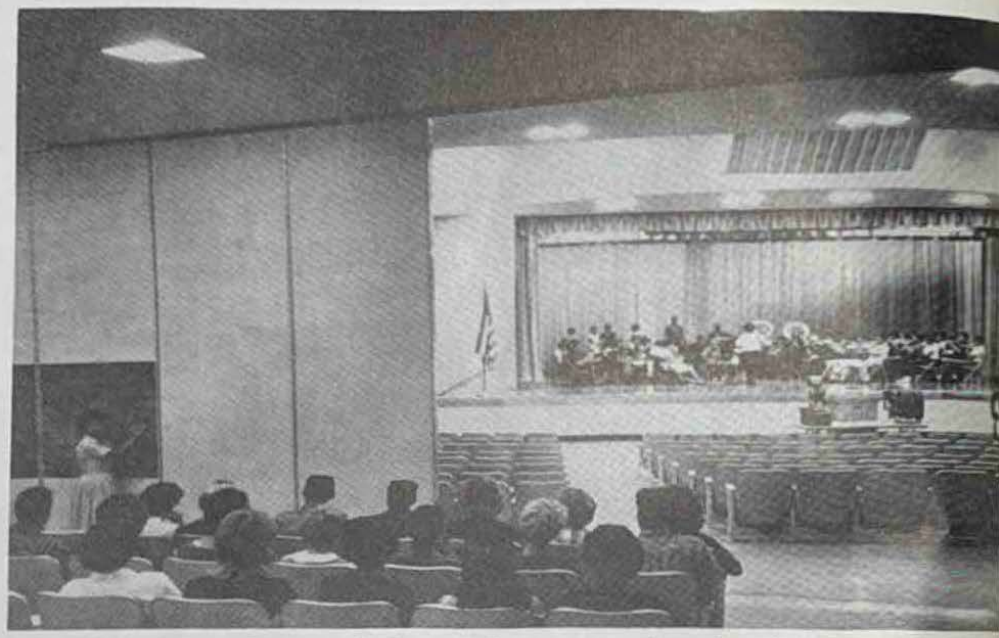

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A new shade has been added to the heat-absorbing, glare-reducing glass spectrum. Solarbronze is described as a warm gray, tawny shade similar to dark topaz with a slight rose tint. It may used as a component of curtain walls and glass-clad building facades, as well as in sliding glass doors and insulating windows. The warm-gray glass will also be produced in a knurled surface pattern for use in partitions and door panels. — Pittsburgh Plate Glass Co., (A/W) 632 Fort Duquesne Blvd., Pittsburgh 22, Pa.

simple system

Function is foremost in a new partitioning line called the Designer Series, which features a single-unit extruded aluminum post permitting four-way access without supplementary fastening devices—post covers, interlocking keys and link plates are eliminated. The black vertical strips on the posts are actually revealed gaskets, doubling as a decorative element when not receiving panel components.—Aetna Steel Products Corp. (A/W), 730 Fifth Ave., N.Y. 19, N.Y.

cool troffer

An all-aluminum troffer that can be used for cooling, heating or exhausting has been produced in a complete range of sizes from 1x2 ft. up to 2x8 ft., with a variety of lengths from which to choose. The air may be directed vertically or horizontally or to any degree by turning a valve. Thus the same unit can be used to direct the air down in a high-ceilinged room, or in a horizontal direction in rooms with low ceilings. — Thermotank, Inc., (A/W) 11191 Lappin Ave., Detroit 34, Mich.

glass-mat ceiling

Mineral fibers and a resin bonding agent make up an acoustical ceiling finished with glass-mat laminate and bright white paint. The ceiling, which absorbs up to 90 percent of sound striking its surface and has a light reflection value of .81, has received a two-hour UL fire rating. The textured surface is easily sponged off, reducing the need for maintenance painting. The ceiling panels are square-trimmed for lay-in installation in exposed grid suspension systems. Called Protectone Acoustiform, the panel is newest member of the firm's fire-rated ceiling assemblies.—The Celotex Corp. (A/W), 120 S. LaSalle St., Chicago 3, Ill.

non-nail fastenings

Completing a line of self-nailing fastenings, Component Clips have hundreds of applications in wood construction. Applied with a regular carpenter's hammer, clips do not require the "third hand" needed for ordinary fastenings. The clips have integral barbed nails for increased holding power and are made of 18 gauge zinc-coated steel. With only nine sizes of clips, any truss can be made.—The Panel-Clip Co., (A/W) 22506 Orchard Lake Road, P. O. Box 423, Farmington, Mich.

handcrafted first impressions

To meet a growing awareness by architects and designers that the mood and motif of a home begins at the front door where first impressions are made, the Schlage Lock Company is introducing a selection of handcrafted hardware designs. The Haida, newest in the line, denotes the rich heritage of the vanishing North Pacific Indian culture. All custom designs are in standard or special finishes and are painstakingly finished by artisans of the old guild tradition. A booklet of custom hardware designs is available.—Schlage Lock Company (A/W), 2201 Bayshore Blvd., San Francisco.

dancing droplets

Patented fountain heads said to be the first basic improvement in fountains in 4000 years employ a rotating, pendulum action that discharges large individual droplets of water in tiers and plumes. The nozzles may be adapted to fit existing fountains and reflecting pools. The fountain shown achieves its effect with only one rotating, oscillating element.—Rain Jet Corp., (A/W) 301 So. Flower St., Burbank, Calif.

spillproof flooring

An industrial flooring designed for extremely severe usage in industrial applications is impervious to common chemicals. If something is spilled, there's no worry because the surface is also skidproof and slipproof, in addition to being non-absorbent. The material can be poured and troweled over concrete, brick, tile, wood, terrazzo, and most metals.—Terrazzite Association of America, Inc. (A/W), 2203 W. Malone, San Antonio, Tex.

SPEEDS CONCRETE FORMING

CRANE-MOVING of EFCO panel assemblies is a money-saving process that speeds construction. EFCO Steel Forms have the necessary strength and rigidity that permit moving large assemblies such as this one measuring 32' x 32'. Send for details of other money-saving EFCO features.

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LITERATURE

Standard Nomenclature for Steel Doors and Steel Door Frames: contains an alphabetical listing of all the common terms used in the industry describing steel doors and steel door frames, accompanied by applicable definitions. The pamphlet has been approved by the American Standards Association; 8 pp.—Steel Door Institute, 2130 Keith Bldg., Cleveland 15, Ohio.

Cost of Full Fire-Resistive Construction: compares construction and insurance costs of a fire-resistive and a sprinklered non-combustible building. Cost break-downs show capital outlay, interest savings, tax benefits, and insurance savings; 8 pp.—Metal Roof Deck Technical Institute, 53 West Jackson Blvd., Chicago 4, Ill.

Structures Built with Trusses (AIA 19-B-3): shows ways to save with precision engineered trusses in construction of commercial and apartment structures, traditional and modern homes, and churches. Engineering specifications and descriptive illustrations are included; 24 pp.—Sanford Truss, Inc., P.O. Box 1177, Pompano Beach, Fla.

Lumber Technical Manual (AIA 19-A): furnishes revised information on selecting and using ten Western pine region species. Size and strength charts, use guides, and photographs of grade types are incorporated into this compact reference; price 15 cents; 28 pp.—Western Pine Association, Yeon Bldg., Portland 4, Ore.

Facts about Plywood: presents in vest pocket form a compilation of basic grade-use data on Western softwood plywood as well as Douglas fir. The digest also updates information on roof sheathing, floor construction, and paneling and backing. A new section has been added to explain the functions of the Plywood Fabricator Service, Inc.; 51 pp.—Douglas Fir Plywood Association, 1119 A St., Tacoma 2, Wash.

BOOKS

Public Construction Contracts and the Law. By Henry A. Cohen. F. W. Dodge Corp., 119 W. 40th St., New York 18, N.Y. 1961. 400 pp. $12.85.

Basic guide to administrative procedures and legal rules governing local, state and federal construction projects. Author is director of Bureau of Contracts for the New York State Department of Public Works. Documented cases are used to demonstrate the practical effect of contractural laws and procedures on the government-contractor relationship.

Color Is How You Light It. Sylvania Electric Products Inc., 1100 Main St., Buffalo 9, N.Y. 1962. 28 pp. 50 cents.

Lighting decor book with charts indicating how lighting affects interior colors; discusses color symbolism, harmony, distortion.

American Concrete Institute Catalog of Publications. American Concrete Institute, Box 4754, Redford Station, Detroit 19, Mich. 1962. 12 pp. No charge.

Lists more than 100 publications covering all phases of concrete design, construction and technology.

Shear, Diagonal Tension and Torsion in Structural Concrete. American Concrete Institute, Box 4754, Redford Station, Detroit 19, Mich. 1962. 121 pp. $9.

Annotated bibliography of 469 articles, concerned mainly with the shear behavior of concrete members, that have appeared in technical literature published from 1897 through 1959.

Strength and Behavior in Flexure of Prestressed Concrete Beams. By Joseph Warwaruk, Mete A. Sozen and Chester P. Siess. University of Illinois Engineering Experiment Station Bulletin 464, Urbana, Ill. $2.

Summarizes information on flexural strength and deformation characteristics of prestressed concrete beams including analysis methods, experimental confirmations, related design considerations.

Controlled Roofing Design and Maintenance. Lion Oil Co., Hydrocarbons Division, Monsanto Chemical Co., El Dorado, Ark. 1962. 32 pp. $1.

Presents data and design information on built-up waterproofing systems, including illustrations and specifications.

Automatic Control Systems and Building Automation. Commercial Division, Minneapolis-Honeywell Regulator Co., Minneapolis 8, Minn. 1962. Approx. 20 pp. each. No charge.

Series of seven planning guide handbooks: clock and programming systems, security and equipment surveillance; automatic fire protection; electronic air cleaning; temperature control; automation techniques; preventive maintenance.

Mechanics of Engineering Structures. By Grover L. Rogers and M. Lander Causey. John Wiley & Sons, Inc., 440 Park Ave. S., New York 16, N.Y. 428 pp. 1962. $8.50.

Directed toward those students who study problems of stresses and strains in bar type structures.

• **Kaiser Gypsum Co.:** Hugh L. Crabb has been appointed manager of the central sales division embracing northern California, Utah, northern Nevada and part of Idaho. Announcement was made by J. J. Hague, vice president of sales.

• **Marsh Wall Products, Inc.:** A new manufacturing plant has been established at 7251 E. Condor St., Los Angeles, to augment a well established network of warehouses and offices in the eleven state area comprising their western division. V. R. Marsh, executive vice president, announces that while the full line of Marlite and accessories will not be produced at Los Angeles, the combination of the new plant with the Dover plant will reduce shipping time and provide complete lines with better service.

• **The Ruberoid Company:** Arthur L. Dunnam Jr., has been named plant manager at the Denver manufacturing location, 156 W. 56th Ave.

• **Berylex Engineering and Supply, Inc.:** Office and warehouse facilities have been established at 600 16th St., Oakland, for newly formed company, manufacturers of a compound for watertight concrete. Frank C. Allen is president, Colin Campbell, vice president, and Robert Williams, secretary-treasurer.

• **Mathews Paint Co.:** Appointment of Gerald B. Hunter as general manager of the Los Angeles firm, a division of Dyna-Therm Chemical Corp., Beverly Hills, has been announced by George M. Joyce, Dyna-Therm president. Hunter will direct operations of manufacturing facilities, Mathews Laboratory, and the Phoenix division.

• **Kaiser Steel Corporation:** Robert E. Dixon has been named administrative manager for Kaiser Steel's Fabricating Division, according to an announcement by E. L. Ilsley, division vice president and general manager. Mr. Dixon will be located at the Kaiser Center, Oakland.

Other new appointments for the Fabricating Division, announced by K. R. Peck, division general sales manager, include appointment of Robert W. Gregg as southern district sales manager, in Los Angeles, and Henry H. Wilkins, northern district sales manager, at the Kaiser Center.

Thomas Read has been named manager of the Montebello plant and James Maggetti, Napa manager.

• **C. Hager & Sons Hinge Mfg. Co.:** A new southern California office and warehouse has been established at 4185 Charter St., in the Vernon Industrial area, Los Angeles. George Halverson, Bill Knechtel, Ed Harris and Dick Gildea will staff new office of the St. Louis manufacturing firm.

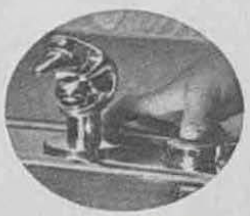
• **Fibreboard Paper Products Corp.:** F. I. Weber, Jr., is new merchandising manager, Industrial Products Division. He was most recently Special Projects manager, Marketing, for the San Francisco company.

• **Forest Interiors Corp.:** John F. Leutzinger, president, has named Clarence D. Stone as sales manager of the Seattle based firm.

• **Adams Rite Manufacturing Co.:** Richard S. Clark, sales manager, has been named chairman of the Door Hardware Advisory Committee of the Store Front and Entrance Division, 1962-63, of the National Association of Architectural Metal Manufacturers.

• **Gladding, McBean & Co.:** Michael C. Dallin has been added to the sales staff of the Architectural Products Div., Seattle. Gene Henry is area sales manager.

Most practical classroom unit you can specify



vandal-proof push-button valve

This is Haws Model 2284 in stainless steel—featuring the new Haws push-button valves that send vandalism worries down the drain! Slow-closing valves work smoothly under slight pressure: can't be jammed or pried. And the gooseneck is extra-heavy ⅜" brass pipe: even *you* can't bend it! Same valves available on all Haws receptors, including enameled iron. Ask for the specs: write for details on Haws push-button valve.

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Building Permit Totals

First Column Figures in Parentheses are Number of Residential Units • Second Column is Do

	# Res.	$ Value	Total $
CALIFORNIA			
Alameda	(23)	$ 216,111	$ 345,157
Alameda Co.	(149)	1,303,600	1,512,659
Albany	(14)	126,475	274,703
Alhambra	(17)	271,500	943,581
Anaheim	(39)	537,750	2,006,919
Antioch	(8)	104,703	128,292
Arcadia*	(42)	*	882,998
Arroyo Grande	(44)	541,500	548,960
Artesia	(5)	74,600	83,950
Atherton	(5)	163,682	227,807
Atwater	(8)	84,000	86,275
Auburn	( )	Nil	697,362
Avalon	( )	Nil	Nil
Azusa	(37)	334,000	381,525
Bakersfield	(26)	307,475	441,275
Baldwin Park	(85)	725,380	791,730
Banning	(2)	19,210	56,824
Barstow	(25)	188,000	222,910
Bell	(6)	44,300	78,575
Bellflower	(137)	1,213,000	1,328,150
Bell Gardens	(35)	263,300	303,840
Belmont	(94)	993,600	1,120,053
Benicia	(1)	16,412	18,112
Berkeley	(35)	369,000	714,805
Beverly Hills	(56)	1,776,000	2,113,332
Bradbury	( )	Nil	1,100
Brawley	(3)	30,000	70,244
Brea	(2)	39,417	134,712
Buena Park	(51)	510,526	3,529,827
Burbank	(97)	589,000	1,017,025
Burlingame	(92)	888,500	1,932,576
Butte Co.	(139)	1,016,215	1,097,415
Calexico	(4)	19,500	45,500
Campbell	(227)	2,440,850	2,507,760
Carlsbad	(40)	611,299	647,875
Carmel	( )	Nil	16,662
Chico	(8)	71,139	246,571
Chino	(3)	54,796	208,867
Chula Vista	(20)	185,171	377,790
Claremont	(33)	376,900	902,340
Coalinga	( )	No Reply	No Reply
Colton	(1)	9,808	133,182
Commerce	(1)	7,000	480,135
Compton	(27)	146,350	507,425
Concord*	(64)	*	989,585
Cntra Csta Co.	(193)	2,781,699	3,826,562
Corona	(1)	8,720	60,967
Coronado	( )	No Reply	No Reply
Corte Madera	(2)	25,825	203,175
Costa Mesa	(205)	3,058,935	3,632,412
Covina	(221)	1,552,680	1,983,630
Cudahy	(80)	609,300	655,015
Culver City	( )	Nil	216,670
Dairy Valley	( )	Nil	52,400
Daly City	(18)	252,650	309,914
Davis	(22)	267,000	285,575
Delano	(22)	331,500	558,760
Downey	(62)	803,575	1,475,635
Duarte	(25)	235,000	1,096,034
El Cajon	( )	No Reply	No Reply
El Centro	(6)	63,995	98,345
El Cerrito	(14)	192,533	244,741
El Dorado Co.	(105)	1,444,363	3,104,283
El Monte	(175)	1,358,792	1,766,190
El Segundo	(2)	21,500	2,896,099
Emeryville	( )	No Reply	No Reply
Escondido	(5)	13,800	100,708
Eureka	( )	No Reply	No Reply
Fairfield	(27)	318,006	353,462
Fillmore	(11)	113,274	132,522
Fontana	(12)	186,827	222,950
Fremont	(146)	2,026,733	3,168,013
Fresno	(82)	584,419	2,093,109
Fresno Co.	(55)	545,330	1,655,461
Fullerton	(79)	1,097,446	1,381,599
Glendale	(155)	1,985,211	2,559,551
Glendora	(60)	606,500	736,650
Half Moon Bay	(7)	93,000	95,700
Hanford	(7)	87,300	131,348
Hawthorne	( )	No Reply	No Reply
Hayward	(49)	411,360	900,143
Hemet	(11)	115,500	217,966
Hermosa Bch	(9)	120,080	136,585
Hidden Hills	(1)	31,000	46,950
Hillsborough	(1)	40,000	82,000
Holtville	( )	Nil	985
Humboldt Co.	(12)	220,575	337,365
Huntngtn Bch	(167)	2,611,984	4,334,375
Huntington Pk	(11)	99,100	218,200
Imperial Co.	( )	Nil	10,000
Indio	(3)	31,760	744,546
Industry	( )	Nil	81,980
Inglewood	(56)	570,760	1,209,229
Irwindale	( )	Nil	4,250
Kern Co.	(96)	1,263,256	1,827,610
Laguna Beach	(15)	308,300	354,194
La Habra	(43)	949,200	1,502,072
Lakewood	(43)	595,356	756,006
La Mesa	(5)	131,950	406,620
La Mirada	(1)	19,000	104,975
La Puente	(108)	638,900	735,310
La Verne	(39)	522,600	683,258
Lawndale	(24)	273,929	301,414
Lindsay	( )	Nil	2,865
Livermore	(20)	222,800	269,800
Lodi	(14)	158,000	521,690
Lompoc	(161)	2,260,274	3,141,227
Long Beach	(652)	6,612,290	8,333,187
Los Altos	(13)	310,000	475,790
Los Angeles	(2,311)	28,229,479	48,620,659
Ls Angls Co.	(1,654)	19,840,640	28,596,056
Los Gatos	(38)	748,000	771,550
Lynwood	(64)	502,500	592,630
Madera	( )	No Reply	No Reply
Madera Co.	(6)	38,300	215,450
Manhattn Bch.	(23)	286,180	461,014
Manteca	(9)	84,500	94,081
Marin Co.	(166)	3,054,880	3,209,048
Martinez	(4)	70,245	176,965
Marysville	(18)	166,600	196,677
Maywood	(19)	132,050	167,150
Menlo Park	(14)	218,500	578,674
Merced	(12)	190,720	204,161
Merced Co.	(18)	221,205	374,370
Millbrae	(5)	173,800	1,584,120
Mill Valley	(7)	148,500	183,675
Modesto	(37)	464,500	919,745
Monrovia	(30)	274,018	667,745
Montclair	(34)	392,170	437,560
Montebello	(45)	444,991	631,198
Monterey	(46)	418,550	549,250
Monterey Co.	(63)	729,960	879,736
Monterey Park	(24)	244,850	342,804
Mountain View	(170)	1,878,592	2,236,672
Napa	(25)	290,580	959,477
Napa Co.	(10)	198,680	429,724
National City	(18)	117,670	280,651
Newport Bch.	(36)	1,053,300	1,995,094
N. Sacramento	(98)	553,466	731,273
Norwalk	(97)	629,600	932,190
Novato*	(48)	*	717,149
Oakdale	(14)	147,202	174,419
Oakland	(291)	2,906,819	5,125,080
Oceanside	(29)	451,500	931,944
Ojai	( )	Nil	56,980
Ontario	(50)	353,440	450,925
Orange	(164)	2,476,650	2,845,450
Orange Co.	(279)	4,455,708	5,325,351
Oroville	(7)	58,366	621,791
Oxnard	(30)	283,500	580,120
Pacifica	(22)	238,200	356,550
Pacific Grove	(6)	80,300	107,610
Palm Springs	(14)	636,000	1,096,760
Palo Alto	(66)	620,633	1,115,390
Pals Verd Est	(23)	937,490	946,350
Paramount	(35)	272,300	353,575
Pasadena	(27)	377,286	1,843,441
Paso Robles	( )	Nil	10,800
Pico Rivera	( )	No Reply	No Reply
Piedmont	( )	Nil	Nil
Pinole	(7)	86,940	90,590
Pittsburg	(5)	71,972	145,226
Placentia*	(229)	*	*
Placer Co.	(49)	711,842	886,765
Pleasanton	( )	No Reply	No Reply
Pomona	(196)	2,296,950	3,353,843
Porterville	(2)	18,000	13,476
Port Hueneme	(20)	80,000	120,000
Red Bluff	( )	Nil	30,900
Redding*	(66)	*	911,650
Redlands	(44)	629,000	1,152,817
Redondo Bch	(136)	1,929,200	2,449,261
Redwood City	(100)	829,410	2,022,855
Richmond	(63)	488,458	883,242
Riverside	(50)	955,856	1,289,904
Riverside Co.	(447)	4,470,965	6,629,107
Rolling Hills	(4)	172,600	187,100
Rolling Hls Es	(1)	32,000	599,700
Rosemead	(6)	82,600	237,924
Roseville	(17)	177,706	195,031
Sacramento	(107)	1,093,400	8,299,500
Sacramto Co.	(532)	5,449,133	7,709,713
St. Helena	(2)	29,100	33,800
Salinas	(28)	361,000	1,354,207
San Bernrdino	(46)	553,372	2,20
San Brndo Co.	(472)	3,995,272	6,85
San Bruno	(38)	505,400	1,05
San Carlos	(11)	236,247	49
San Clemente	(83)	1,523,653	1,62
San Diego	(299)	3,871,921	8,75
San Diego Co.	(155)	2,414,000	3,54
San Dimas	(4)	80,900	24
San Fernando	(37)	242,400	28
San Francsco	(1,024)	15,682,293	20,18
San Gabriel	(23)	261,425	33
Sanger	( )	No Reply	No Re
San Jacinto	(4)	29,900	4
San Joqun Co.	(31)	287,293	48
San Jose	(331)	3,864,000	5,89
San Leandro	(90)	762,790	1,54
San Ls Obspo*	(37)	*	56
Sn Ls Obsp Co.	(47)	476,310	66
San Marino	(2)	73,600	16
San Mateo	(7)	141,000	58
San Mateo Co.	(97)	1,315,750	2,07
San Pablo	(58)	385,038	47
San Rafael	(39)	811,199	1,03
Santa Ana	(108)	1,218,842	2,41
Santa Barbara	(106)	1,529,400	2,42
Snta Brbra Co.	(189)	2,242,000	3,44
Santa Clara	(211)	2,320,500	2,94
Santa Clra Co.	(30)	497,425	1,31
Santa Cruz	(18)	215,397	1,39
Santa Cruz Co.	(102)	1,150,508	1,31
Snta Fe Sprngs	(1)	10,000	34
Santa Maria	(54)	713,781	93
Santa Monica	(85)	791,420	1,46
Santa Paula	(3)	28,750	12
Santa Rosa	(135)	1,254,356	1,71
Sausalito	(5)	75,000	6
Seal Beach	(411)	3,034,970	3,56
Seaside	(4)	44,500	16
Selma	(1)	9,400	12
Shasta Co.*	(84)	*	79
Sierra Madre	(11)	155,600	17
Solano Co.	(9)	132,887	24
Sonoma Co.	(129)	1,011,029	1,59
South Gate	(30)	240,087	41
South El Mnte	(1)	11,900	13
South Pasdna	(38)	678,496	74
S. San Frncsco	(4)	61,750	16
Stanislaus Co.	(38)	387,100	78
Stockton	(174)	1,576,736	1,89
Sunnyvale	(200)	2,395,700	3,25
Temple City	(27)	339,100	42
Torrance	(207)	1,812,370	2,64
Tracy	(11)	119,524	23
Tulare	(10)	68,150	8
Tulare Co.	(84)	1,050,410	1,25
Turlock	( )	No Reply	No Re
Ukiah	( )	Nil	29
Upland	(78)	874,250	92
Vacaville	(20)	207,050	63
Vallejo	(29)	297,254	47
Ventura	(110)	1,387,719	1,61
Ventura Co.	(404)	4,553,100	7,21
Visalia	(8)	130,323	19
Walnut	(1)	17,276	1
Walnut Creek	(74)	950,170	1,20
Wasco	(3)	35,500	9
Watsonville	(3)	37,000	4
West Covina	(6)	124,600	98
Whittier	(53)	527,600	88
Woodland	(12)	140,640	35
Woodside	( )	Nil	2
Yolo Co.	(24)	229,289	1,77
Yreka	(6)	68,400	10
Yuba City	(5)	37,586	13
Yuba Co.	( )	No Reply	No Re
Total	**(19,674)**	**$224,131,186**	**$366,802,**
OREGON			
Albany	(1)	$ 9,600	$ 84
Ashland	(6)	80,000	288
Astoria	(1)	11,000	23
Baker	(4)	48,000	70
Beaverton	(8)	126,700	147
Bend	(9)	119,500	162
Central Point	(12)	113,000	113
Clackamas Co.	(30)	408,790	539
Coos Bay	( )	Nil	47
Corvallis	(7)	91,200	210
Dallas	(2)	12,500	17
Douglas Co.	(15)	156,550	728
Eugene	(50)	412,385	708
Forest Grove	(3)	40,500	66
Grants Pass	(6)	70,500	73

*Complete figures not available

Western States for November

Residential Permits Only • Third Column is Total Dollar Value of All Permits, Including Residential

	# Res.	$ Value	Total $
Gresham	(3)	26,000	42,689
Hermiston	(3)	39,934	45,426
Hillsboro	(4)	62,700	73,000
Hood River	( )	Nil	5,550
Klamath Falls	( )	Nil	28,230
La Grande	( )	Nil	25,475
Lake Oswego	(12)	249,500	281,541
Lane Co.	(64)	690,088	1,635,117
Lebanon	( )	Nil	2,600
Marion Co.*	(48)	*	960,129
McMinnville	(1)	11,500	116,196
Medford	(17)	185,600	327,795
Miltn-Freewtr	( )	No Reply	No Reply
Milwaukie	(9)	122,525	125,650
Multnomh Co.	(84)	1,187,075	1,932,815
Newberg	(1)	4,000	10,179
Newport	( )	Nil	14,800
North Bend	( )	Nil	13,895
Ontario	(1)	11,000	21,350
Oregon City	( )	Nil	229,545
Oswego	(12)	249,500	281,541
Pendleton	(3)	33,000	68,320
Portland	(88)	798,900	1,909,355
Roseburg	(1)	12,150	58,216
St. Helens	( )	Nil	175,250
Salem	(32)	272,476	721,708
Seaside	( )	Nil	Nil
Springfield	(31)	192,962	229,479
The Dalles	(2)	22,000	50,175
Wshingtn Co.	(54)	1,024,850	1,272,025
Total	**(624)**	**$ 6,895,785**	**$ 13,940,553**
WASHINGTON			
Aberdeen	(1)	$ 10,400	$ 32,522
Anacortes	( )	Nil	25,045
Auburn*	(20)	*	251,400
Bellevue	(44)	470,000	525,600
Bellingham	(1)	16,000	115,489
Bremerton*	(22)	*	285,810
Camas	(3)	44,000	69,000
Centralia	( )	Nil	23,104
Chehalis	(1)	15,000	28,374
Clark Co.	(51)	674,000	711,220
Clarkston	( )	Nil	18,700
Edmonds	( )	No Reply	No Reply
Ellensburg	(1)	15,000	165,750
Enumclaw	( )	No Reply	No Reply
Ephrata	( )	Nil	5,260
Everett	(17)	275,040	335,048
Frys Hrbr Co.	(4)	38,000	45,050
Issaquah	( )	Nil	13,000
Island Co.	(8)	40,500	51,825
Kelso	( )	Nil	21,111
Kennewick	(1)	14,000	57,800
Kent	(3)	74,000	132,800
King Co.*	(397)	5,842,925	7,125,640
Kirkland	( )	Nil	32,850
Longview	(5)	51,500	450,615
Lynnwood	(1)	20,000	329,330
Mercer Island	(8)	169,740	217,690
Moses Lake	(3)	35,780	46,365
Mntlke Terrce	(14)	149,000	155,016
Olympia	(2)	33,000	98,313
Pasco	(9)	116,500	135,716
Pierce Co.	(86)	1,146,510	1,549,492
Port Angeles	(2)	32,146	41,145
Pullman*	(22)	*	162,840
Puyallup	(23)	167,000	471,335
Renton	(23)	273,600	782,145
Richland	(4)	73,000	134,660
Seattle	(301)	3,478,700	11,780,642
Shelton	(1)	11,000	73,150
Spokane	(26)	396,000	3,288,518
Spokane Co.	(26)	449,450	1,074,934
Sunnyside	(3)	34,000	188,850
Tacoma	(25)	422,650	1,050,022
Thurston Co.	( )	No Reply	No Reply
Vancouver	(154)	849,859	1,379,298
Walla Walla	(7)	80,000	123,844
Wlla Wila Co.	(7)	123,000	139,710
Wenatchee	(14)	208,000	229,100
Yakima*	(29)	*	405,832
Total	**(1,369)**	**$ 15,849,300**	**$ 34,380,960**
ALASKA			
Anchorage	(25)	$ 325,195	$ 486,124
Fairbanks	( )	Nil	Nil
Juneau	(1)	30,000	184,530
Ketchikan	( )	Nil	46,500
Total	**(26)**	**$ 355,195**	**$ 717,154**

	# Res.	$ Value	Total $
IDAHO			
Blackfoot	( )	Nil	Nil
Boise	(16)	173,200	558,594
Burley	(5)	88,050	244,425
Caldwell	(10)	174,700	211,580
Coeur d'Alene	(2)	53,811	175,005
Idaho Falls	(24)	312,720	607,742
Jerome	( )	Nil	926
Lewiston	(2)	25,800	33,300
Moscow	(3)	50,000	234,687
Nampa	(6)	75,280	129,155
Payette	(3)	37,500	49,800
Pocatello	(9)	108,500	1,156,810
Sandpoint	( )	Nil	Nil
St. Maries	( )	No Reply	No Reply
Twin Falls	(10)	92,000	122,950
Total	**(90)**	**$ 1,191,561**	**$ 3,524,974**
MONTANA			
Anaconda	( )	Nil	Nil
Billings	(18)	$ 255,700	$ 672,741
Bozeman	(7)	122,000	126,300
Butte	(1)	10,000	55,500
Cut Bank	( )	Nil	7,170
Glasgow	( )	Nil	19,100
Glendive	(1)	14,100	51,600
Great Falls	(89)	732,993	843,290
Havre	( )	No Reply	No Reply
Helena	(4)	61,000	90,765
Kalispell	( )	Nil	13,900
Lewistown	(3)	22,000	24,900
Livingston	( )	Nil	10,400
Malta	( )	Nil	Nil
Miles City	( )	No Reply	No Reply
Missoula	(7)	62,680	99,184
Total	**(130)**	**$ 1,280,473**	**$ 2,014,850**
WYOMING			
Casper	(19)	$ 212,800	$ 272,664
Cheyenne	(36)	353,750	511,411
Cody	(5)	68,000	68,000
Laramie	(1)	22,000	42,805
Rawlins	(1)	19,000	25,000
Riverton	(4)	47,500	275,896
Rock Springs	(5)	102,000	236,000
Sheridan	(2)	33,000	98,215
Total	**(73)**	**$ 858,050**	**$ 1,529,991**
COLORADO			
Adams Co.	(114)	$ 1,501,500	$ 1,672,305
Alamosa	(5)	79,000	104,000
Arapahoe Co.	(114)	1,911,350	2,064,450
Arvada	( )	No Reply	No Reply
Aspen	( )	Nil	15,200
Aurora	(42)	483,814	822,887
Boulder	(49)	316,050	4,852,969
Boulder Co.	(22)	237,000	327,600
Colrdo Sprngs	(60)	727,238	885,282
Cortez	( )	Nil	3,450
Denver	(200)	1,955,439	4,001,082
Durango	(1)	13,220	18,016
El Paso Co.	(56)	785,450	1,024,395
Englewood	(5)	52,000	206,355
Estes Park	(2)	24,000	40,385
Fort Collins	(33)	419,200	787,816
Fort Morgan	(2)	22,200	30,440
Golden	(6)	62,730	71,000
Grnd Jnction	(2)	19,000	109,555
Greeley	(18)	227,760	255,204
Jefferson Co.	(161)	2,139,534	2,751,039
La Junta	( )	Nil	25,853
Lamar	( )	Nil	92,000
Littleton	(10)	170,717	290,193
Longmont	(24)	288,242	363,857
Loveland	(23)	251,000	765,300
Monte Vista	(2)	19,000	26,810
Montrose	(7)	91,010	112,210
Pitkin Co.	( )	No Reply	No Reply
Pueblo	(24)	237,064	393,137
Pueblo Co.	( )	No Reply	No Reply
Sterling	(1)	8,000	18,300
Trinidad	(2)	32,000	56,413
Walsenburg	(60)	613,935	614,725
Westminster	(5)	54,950	125,622
Total	**(1,050)**	**$ 12,742,403**	**$ 22,927,850**

	# Res.	$ Value	Total $
UTAH			
American Frk	(4)	$ 32,000	$ 35,075
Bountiful	(29)	358,700	839,963
Brigham City	(3)	60,000	69,350
Cedar City	(1)	12,000	21,800
Clearfield	( )	No Reply	No Reply
Davis Co.	(3)	43,648	112,755
Kaysville	(2)	19,900	23,000
Layton	(14)	177,000	701,124
Logan	(12)	130,507	154,402
Murray	(19)	194,206	223,706
Ogden	(6)	156,260	216,860
Orem	(7)	81,180	112,305
Price	( )	Nil	Nil
Provo	(7)	110,000	902,605
Salt Lake City	(155)	1,467,560	3,025,186
Salt Lake Co.	(201)	2,546,000	2,990,850
S. Salt Lk Cty	(1)	16,000	53,978
Spanish Fork	(2)	21,000	29,500
Tooele	(14)	187,047	382,107
Utah Co.	(7)	114,410	170,250
Weber Co.	(4)	43,000	55,000
Total	**(491)**	**$ 5,769,518**	**$ 10,119,816**
NEVADA			
Boulder City	(6)	$ 114,145	$ 130,230
Clark Co.	(596)	5,588,053	6,820,328
Elko	( )	No Reply	No Reply
Las Vegas	(643)	5,656,481	7,255,812
N. Las Vegas	(184)	1,597,720	1,680,271
Reno	(331)	3,258,812	3,782,115
Sparks	(21)	300,316	520,801
Washoe Co.	(18)	328,300	493,208
Total	**(1,799)**	**$ 16,843,827**	**$ 20,682,765**
ARIZONA			
Buckeye	(1)	$ 11,000	$ 19,330
Casa Grande	( )	No Reply	No Reply
Chandler	(8)	89,610	106,765
Douglas	(3)	26,990	47,870
Flagstaff	(20)	132,094	154,782
Florence	(2)	16,700	16,700
Glendale	(46)	446,000	789,390
Maricopa Co.	(140)	1,190,326	1,524,465
Mesa*	(67)	*	1,996,889
Phoenix	(727)	3,031,214	8,590,746
Pima Co.	(158)	1,707,532	2,042,089
Prescott	(5)	57,200	363,790
Scottsdale	(93)	577,200	871,046
Tempe	(88)	721,950	1,018,570
Tucson	(67)	562,416	4,264,947
Wickenburg	(1)	12,000	17,400
Winslow	( )	Nil	30,300
Yuma	(3)	22,000	68,690
Total	**(1,429)**	**$ 8,604,232**	**$ 21,923,769**
NEW MEXICO			
Alamogordo	( )	No Reply	No Reply
Albuquerque	(218)	$ 2,229,381	$ 3,428,764
Artesia	( )	No Reply	No Reply
Carlsbad	(12)	112,000	177,000
Clovis	(23)	233,791	283,731
Deming	(1)	12,000	39,400
Farmington	( )	Nil	49,365
Gallup	(2)	21,000	26,865
Hobbs	(47)	439,921	693,956
Las Cruces	(13)	162,500	387,172
Las Vegas	( )	No Reply	No Reply
Lovington	( )	Nil	12,450
Raton	( )	Nil	21,000
Roswell*	(50)	*	468,095
Santa Fe	(59)	381,750	947,356
Silver City	( )	Nil	8,525
Truth or Cons.	( )	No Reply	No Reply
Tucumcari	(6)	65,000	96,900
Tularosa	( )	Nil	Nil
Total	**(431)**	**$ 3,657,343**	**$ 6,640,579**
HAWAII			
Hawaii Co.	(38)	525,335	950,207
Honolulu	(311)	3,735,297	10,967,815
Maui Co.	(30)	325,433	791,837
Total	**(379)**	**$ 4,586,065**	**$ 12,709,859**
GRAND TOTAL	**(27,565)**	**$302,764,938**	**$517,915,721**

Architecture / West

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THE IMAGE of the uncultured American has been shattered by a statistical bludgeon. In the United States today there are more piano players than licensed firemen and as many painters as hunters.

These new facets of the Yank were turned up in a recent study by Stanford Research Institute.

- Twice as many Americans attend concerts and recitals as see major league ball games.
- There are more theater goers than boaters, skiers, golfers, and skindivers combined.

The market for "the arts" currently runs around $4 billion a year, and the trends toward culture will create a total arts market of about $7 billion by 1970.

The urge to express personal creativity is a major factor. Arnold Mitchell, SRI economist, believes that Americans will turn increasingly to the arts as a means of attaining both social status and personal satisfaction. This trend, he suggests, reflects the U. S. consumer's growing disenchantment with mass-produced goods—cars, boats, and the like—as status symbols.

He also credits incerasing civic pride and industry alertness to art values as contributing factors.

"Business," he said, "is molding consumer taste through its products, its advertising, its packaging, its buildings, and its corporate images."

More indication is the boom in construction of municipal auditoriums. The SRI economist estimates that roughly 1000 theaters and multi-purpose art buildings will be built in the U. S. and Canada in the coming decade, at a cost of $4 billion.

The individual himself, however, is becoming a big spender on the arts. His outlay for culture rose well over 100% between 1953 and 1960—twice as fast as spending on all recreation, and better than six times as fast as outlays for spectator sports.

Nor is the American only purchasing admission tickets. He's strumming, daubing, carving, acting, singing on his own. Mitchell estimated that among the 50 million Americans who actively participate in amateur art activities, players of musical instruments—20 million—are most numerous. There are about 15 million Sunday painters, sketchers, or sculptors, a million amateur photographers, and half a million amateur actors.

Recalling Walt Whitman's line—"To have great poets, there must be great audiences, too"—Mitchell referred to the growing art buyer group. His figures indicate a rapid enlargement of this group in the next decade, and he cited trends that would suggest that the group will become considerably more sophisticated.

Thus, the supposedly crude American has taken vigorously to the arts. "I find it somehow quaint," Mitchell said, "that more servicemen visiting New York go to the Museum of Modern Art than to any other attraction, except for the Empire State Building."

Given a continuation of the current trends, Mitchell believes that "the conspicuous consumption of yesterday may turn into tomorrow's conspicuous aesthetic."

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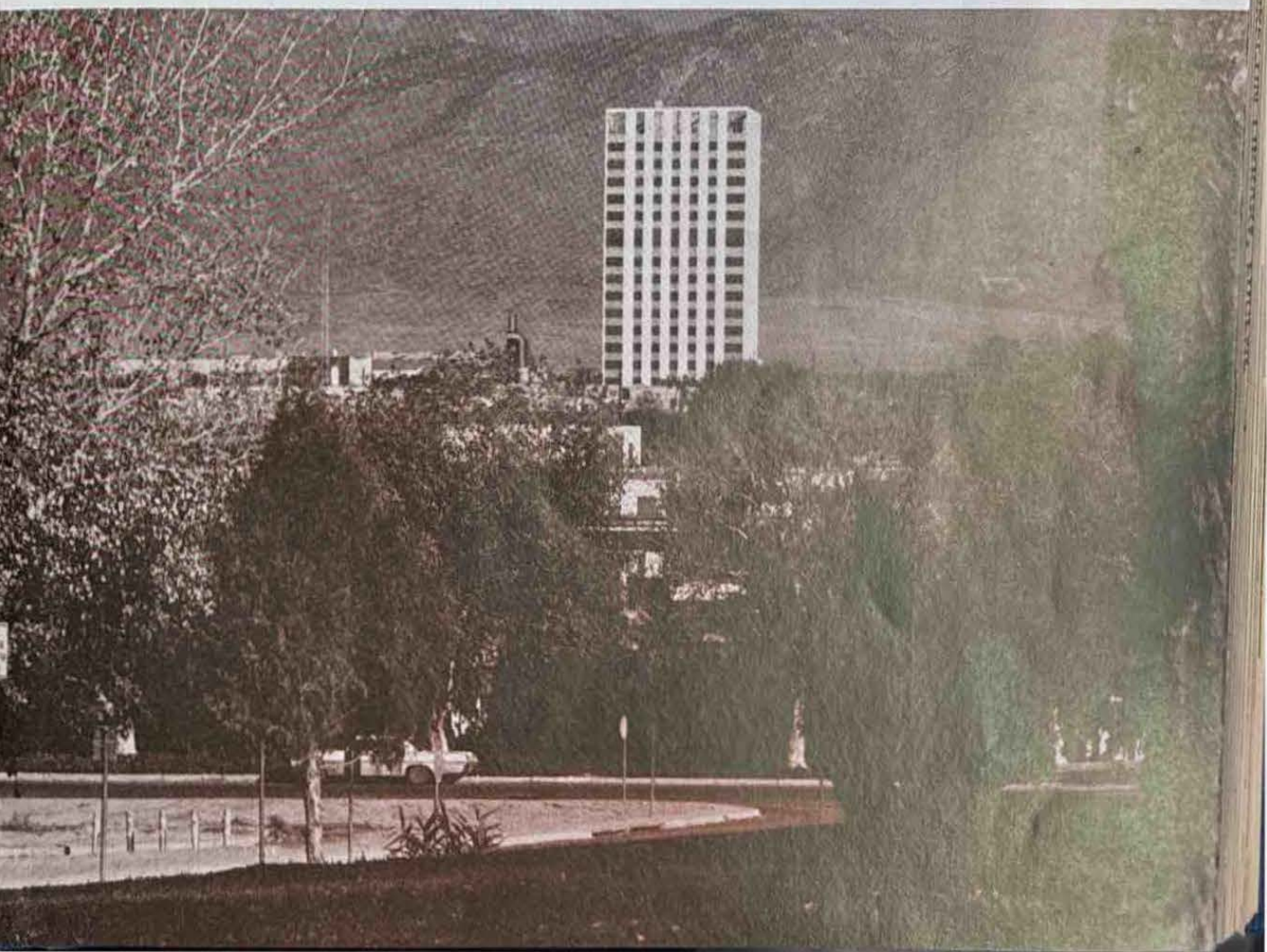
FORMERLY PACIFIC ARCHITECT & BUILDER ◆ FEBRUARY 1963



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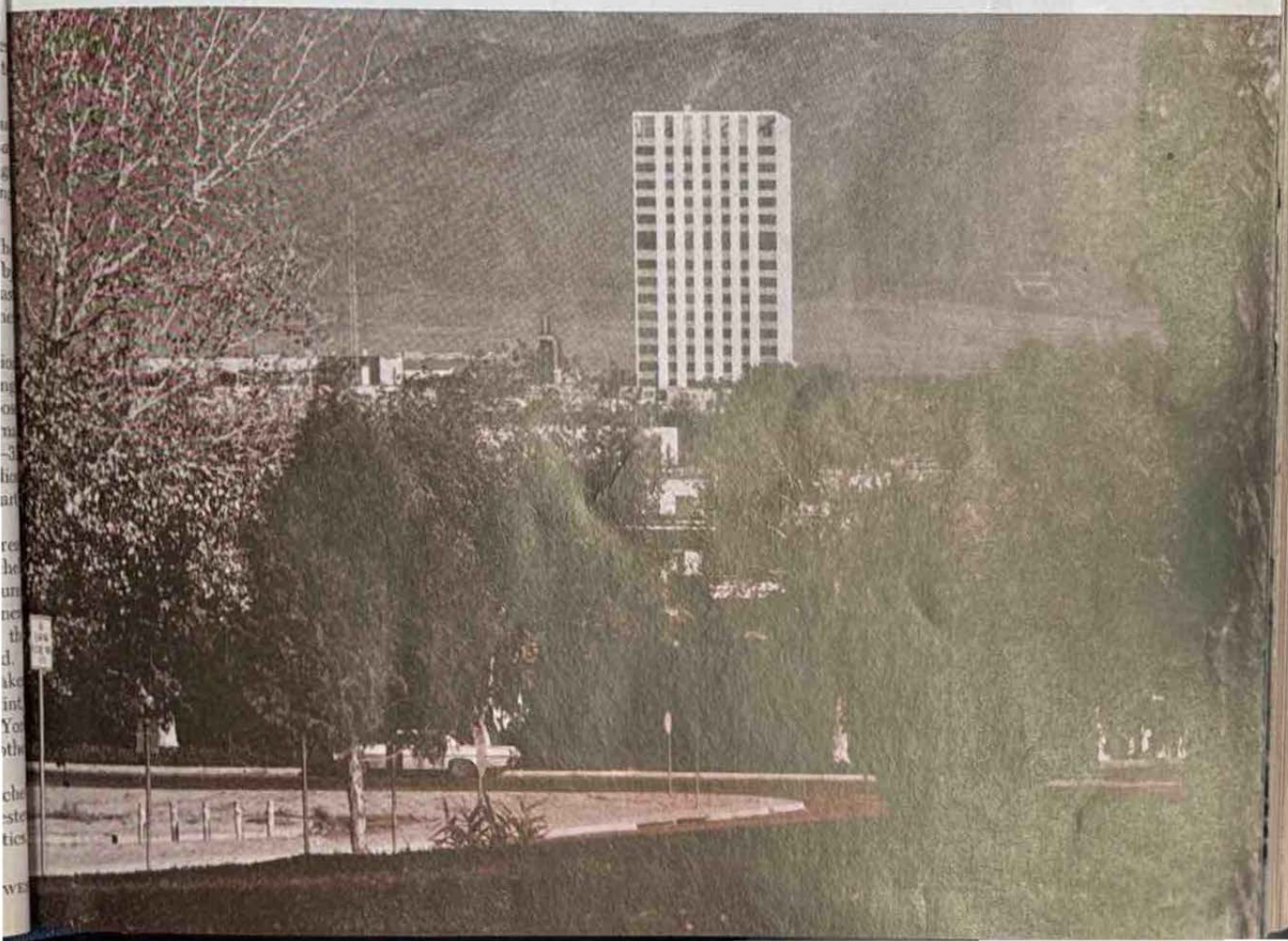

U. S. Courthouse and Federal Office Building, San Francisco, California. Architects and Engineers: Blanchard &
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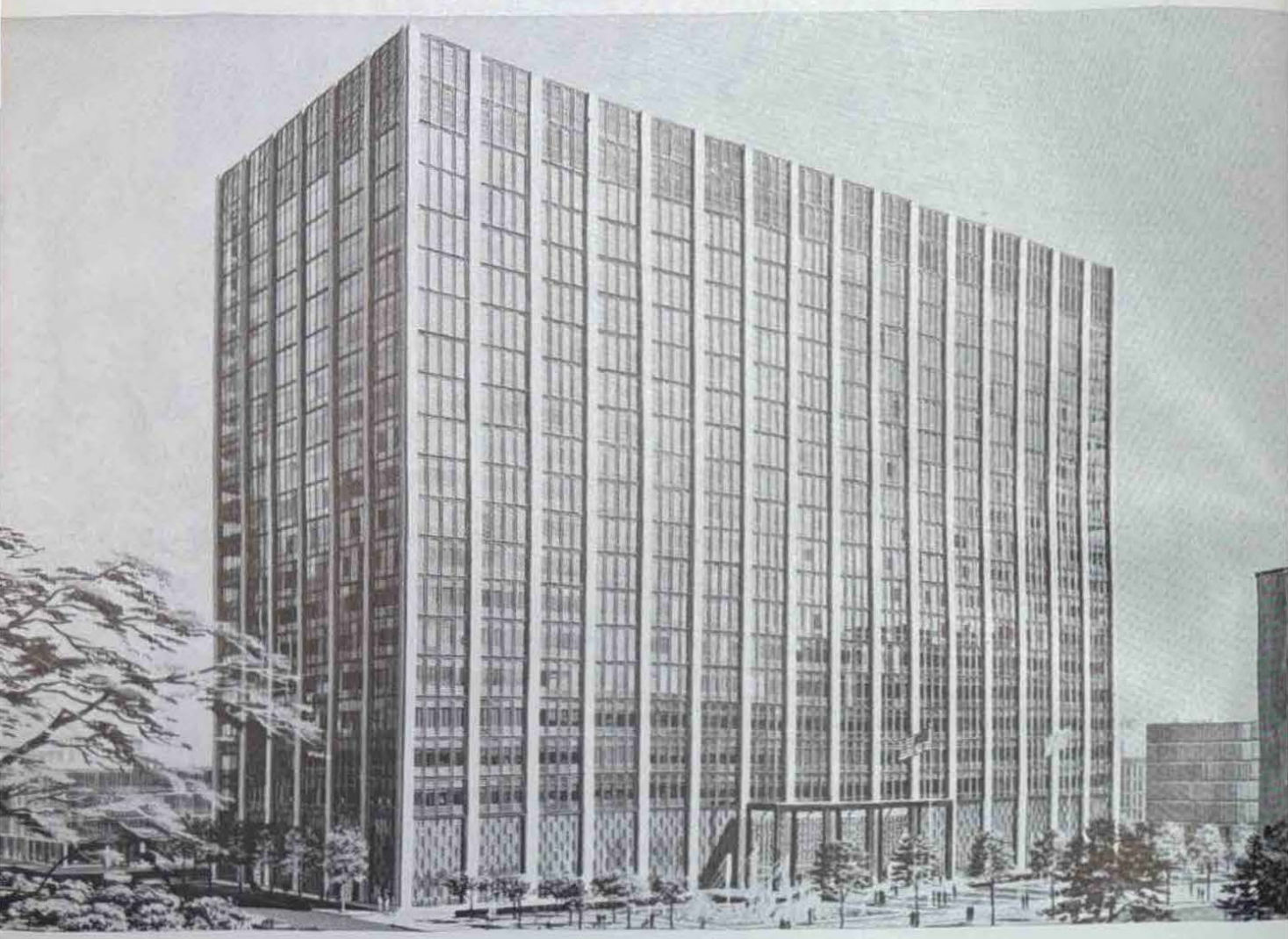

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Business data on page 30

COVER: Symbolic of High Rise in the Wide Open Spaces of the Great Southwest, starting on page 11.

ABOUT THIS ISSUE: For much of its history the Los Angeles area worried about the effects of earthquakes on tall buildings built on its rather unstable soil. As technological advances reduced this problem, the population explosion created zoning problems that posed questions to planners and made them reluctant to create traffic and parking problems by permitting high rise structures. Thus was created the sprawling, horizontal metropolis. By 1957 the necessity for exploring skyward forced a new height limit ordinance that opened the way for high rise construction wherever necessary off-street parking was created. Now a few such structures, up to 22 stories high and one of 28 stories under way, are changing the Los Angeles area skyline. Impressions of an editor and of several architects, builders and developers are recorded on pages 13 and 14. Prior to the Los Angeles stories, on pages 11 and 12, is a review of the less explainable trend towards the skies in the inland southwest of Tucson, Albuquerque and such smaller but exploding metropoli.

Just to round out this quick look at high rise, on page 19 is a cost cutting method, the first use of all-alloy steel structure in a tier building, Portland's Standard Insurance Plaza. And on pages 20 and 21, a sort of layman's guide to elevator planning by a consultant to architects.

NEXT MONTH: A roundup of the trend in buildings at airports throughout the West.

THE BUILDING MONTH

Highlights & Sidelight

THE BUILDING WEST—An increase of $69 million, or about 16%, in building volume over the same period a year ago, continues to keep the West in the lead in national building construction figures. December wound up the year with a total voume of $511 million. A breakdown of western agencies issuing permits appears on pages 28-29.

THE HOTTEST SPOTS—Phoenix, in seventh place in dollar volume last month, moved into third spot with an increase of $11.6 million over the same period last year. Valuations for the city included the new $9.7 million downtown county governmental-office complex. Clark County, Nevada, running in fifteenth place in totals, moved into fourth, with a $9 million increase in permits issued during 1962. The top 25 cities, shown in millions: 1. Los Angeles, $75.3; 2. Los Angeles County, $25.7; 3. Phoenix, $17.6; 4. Clark County, Nevada, $12.3; 5. Oakland, $9.9; 6. Albuquerque, $9.2; 7. San Diego, $9.2; 8. Las Vegas, $8.9; 9. San Francisco, $8.2; 10. Sacramento County, $8.1; 11. King County, Washington, $8.; 12. Huntington Beach, Calif., $7.7; 13. Hawaii County, Hawaii, $7.5; 14. San Jose, $7.3; 15. Seattle, $7.1; 16. Denver, $7; 17. Orange, Calif., $6.5; 18. Ventura County, Calif., $6.2; 19. San Bernardino County, Calif., $5.6; 20. Orange County, Calif., $5.4; 21. Santa Barbara County, Calif., $5.2; 22. San Diego County, Calif., $5; 23. Sunnyvale, Calif., $5; 24. Anaheim, $4.4; 25. Riverside County, Calif., $4.1.

WITH BEAUTY FOR ALL—California, determined to make their freeway and bridge structures, as well as future construction projects, add to the beauty of their surroundings, has talked with architects and come up with the idea of appointing some key men as consultants, with another panel of architects to act on an unpaid, voluntary basis, at the suggestion of the architects themselves. Already appointed are Mario J. Ciampi, San Francisco, as consultant to the Division of Highways on design of bridge structures on the Junipero Serra freeway in San Mateo and Santa Clara counties; William Stephen Allen, president of California Council, AIA, to advise on design of the new high-level San Mateo-Hayward bridge; and Lawrence Halprin, San Francisco landscape architect, to assist on preliminary studies for a parkway in the Golden Gate Park Panhandle area. The latter two will consult with the Department of Public Works. Governor Edmund Brown highly commended these leaders of the architectural profession for their sense of public responsibility and noted that with their assistance "these new projects can be designed for maximum beauty as well as safety and efficiency."

CITY WITHIN A CITY—A $26 million project to bring "Central Park" living to downtown Denver is on the drafting boards of architect Bertrand Goldberg, designer of Chicago's Marina City, and the inspiration for the proposed Park City. Twin 40-story apartment towers, a major office building and a 350-room motel will be built on a full city block. Included in plans are garage parking on the site for 500 cars, a commissary, retail and service shops, all open to general public as well as tenants. Among recreational facilities will be a year-round swimming pool, ice skating rink, auditorium, meeting rooms, theater, library and chapel —a city within a city.

FUNDS GO COLLEGIATE—Expected capital outlay fo college expansion, additions, new equipment, for th western states will exceed a billion dollars lon before the first half of 1963 is gone if all plans g into effect. Some recommendations will need to b okayed by legislative action. Some projects are no out for bids and some are under construction. breakdown to date looks something like this:

• **Colorado**—Seven Colorado universities and co leges will get some $11 million for capital constructio if the State Legislature in its next session accep recommendations of the State Planning Adviso Board. Largest sum would go to Colorado State Un versity, Fort Collins—$2.6 million for auditorium gymnasium; $900,000 for addition to office-classroo building. Plans for University of Colorado, Boulde include an additional $2.4 million for engineerin sciences center now under construction; $50,000 plan a life sciences building and $25,000 to plan utility improvement and boiler addition. Other recom mendations include $978,000 for Colorado State Co lege, Greeley; $71,000 for School of Mines, Golde $80,000, Ft. Lewis A&M, Durango; $2.2 million, Soutl ern Colorado State College, Pueblo; $1 million, Wes ern State College, Gunnison, $1 million, CU Medic Center, Denver.

• **Nevada**—Under review by University of Nevada Board of Regents is the State Planning Board's recom mendation for a $5.8 million building program fo the Reno and Las Vegas campuses. Plans have bee approved by the board for a physical education facili including field house and a stadium at a figure $700,000 at Reno. Proposed for this campus is a phys cal science building to cost approximately $2.6 millio Major items for the Las Vegas campus are a $817,00 dormitory and dining facility and a fine arts comple to cost $659,000.

• **California**—Construction costs of the new So oma State College at Cotati will exceed $25 millio during next four years. First building will start i April with occupancy scheduled for fall term of 196 Three major buildings expected to be completed b this date include a $440,000 field house, a $3.4 millio classroom building which will also house a librar and administrative offices, and a $39 million scienc building. Approximately $8 million will be spen during 1966 and by 1967 when first phase of campu construction will be completed, another $6 million wi have been invested. Funds must be approved by Boar of Trustees of California State Colleges, State Depar ment of Finance, the Legislature and the State Publ Works Board.

The University of Southern California's Master Pla received a boost with a commitment of half a millio dollars toward construction of an eight-story campu residence hall for 300 women students made by M and Mrs. Michael C. Birnkrant of Bel Air. Buildin will be named for donors.

University of California at Berkeley has a startin fund of $4 million for the new Lawrence Hall Science with construction expected to begin late ne year. Meanwhile, work has already started on the $2 million Bio-Chemistry building, seven-story structu located on northwest corner of the campus.

RESEARCHING MENTAL HEALTH FACILITIES—Architectural demands of specialized facilities for treatment of mental illness will be examined at a pioneering seminar of 60 California architects and mental health specialists in San Francisco on Feb. 4, 5 and 6 at Del Webb's Towne House. The meeting, jointly sponsored by the State Department of Mental Hygiene and the California Council, AIA, has as its primary objective the acquainting of architects with mental health concepts which affect the design of treatment, rehabilitation, nursing and research facilities for psychiatric patients. Participants will also seek to establish some standards for the design and construction of psychiatric facilities.

AT LAST—A QUIET PLACE TO KILL (Time, that is)—Thoughtful builders, architects and interior designers have at last created a few places of refuge for the person who has to "kill" time between appointments. Shreveport, Louisiana, airport recently opened an air-conditioned, soundproof cubicle in which travelers can relax in complete silence for the nominal charge of 25 cents per half hour.

RAPID TRANSIT A LA SAN FRANCISCO—San Francisco Bay Area voters have authorized construction of America's first entirely new rail rapid transit system in nearly half a century. The $792 million bond issue is undoubtedly the largest ever voted by a local area. Construction of the 75-mile transit network, planned to start early in 1964, is expected to set the pattern for rapid transit development throughout the country. Automatically-operated electric trains will travel at speeds of more than 70 miles an hour and at peak-hour intervals of only 90 seconds. Key link in the system will be the four-mile long underwater trans-Bay transit tube connecting San Francisco and Oakland. In Alameda, Contra Costa and San Francisco counties, trains will travel through underground subways, tunnels, along modern aerial lines and on specially-designed exclusive surface lines.

Total construction period is estimated for 8½ years and will involve monumental figures including 50 million man-hours for labor, with an average annual employment of 3,000. Some $60 million of electrical materials and equipment will be used; 2 million cubic yards of cast-in-place concrete; 130,000 tons structural and miscellaneous steel; 3½ million barrels of cement; 90 million board feet of timber; 23 million cubic yards of earthwork and dredging; 120,000 tons reinforcing steel; 60,000 tons rail steel.

CONSULTING THE CALENDAR—Eighth annual education conference and seminar, Ceramic Tile Institute, will be at the Ambassador Hotel, Los Angeles, Feb. 7-9 . . . Feb. 26 through March 1, the 19th annual Technical Conference of the Society of Plastics Engineers, sponsored by South California section, will convene at Statler-Hilton and Biltmore Hotels, Los Angeles . . . March 4-8, Church Architectural Conference at Olympic Hotel, Seattle . . . "The Ugliness Around Us" will be subject of 2nd annual conference of the New Mexico Chapter, AIA, at the LaFonda Hotel, Santa Fe, April 19-20. Host will be Santa Fe Section, AIA . . . The 25th annual convention of the National Association of Architectural Metal Manufacturers will be held April 21-27 at the Hotel Del Coronado, Coronado, California . . . Portland, Oregon will host National Fire Protection Association's 67th annual meeting at Hilton Hotel, May 13-17.

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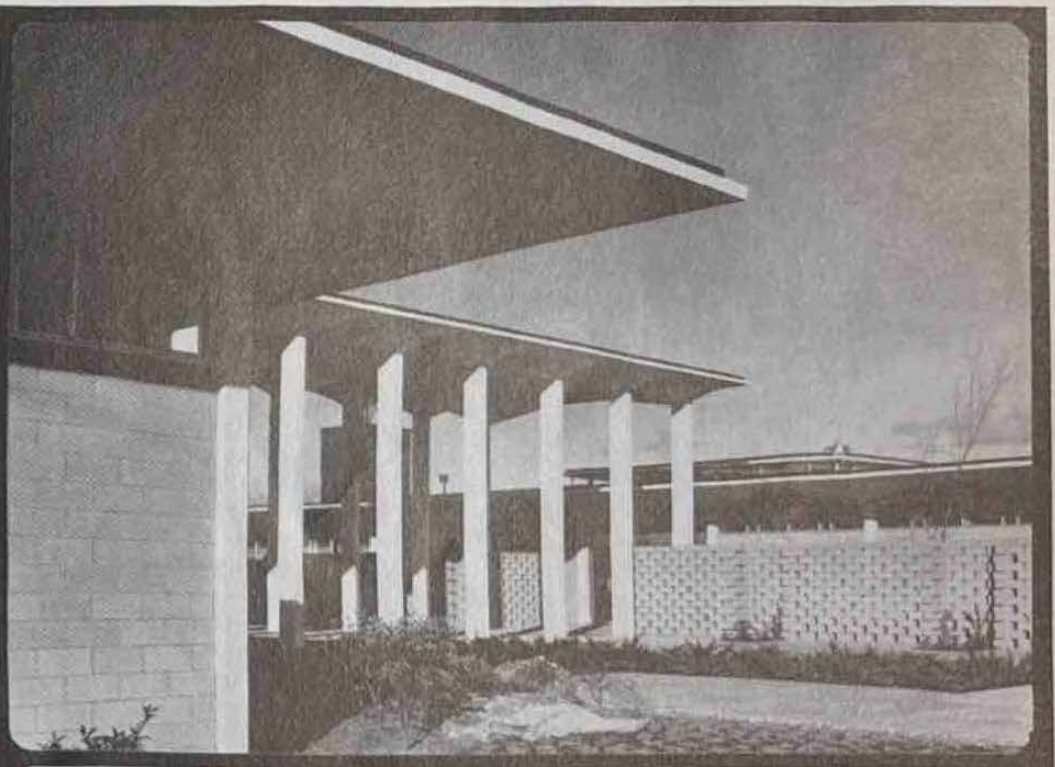
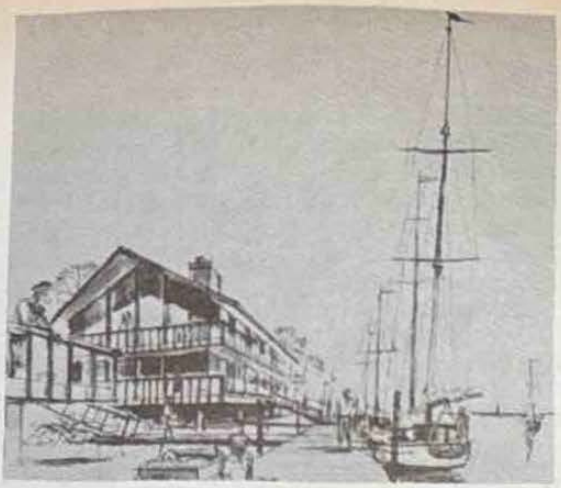


■ Dan F. Miller, A.I.A., & Associates

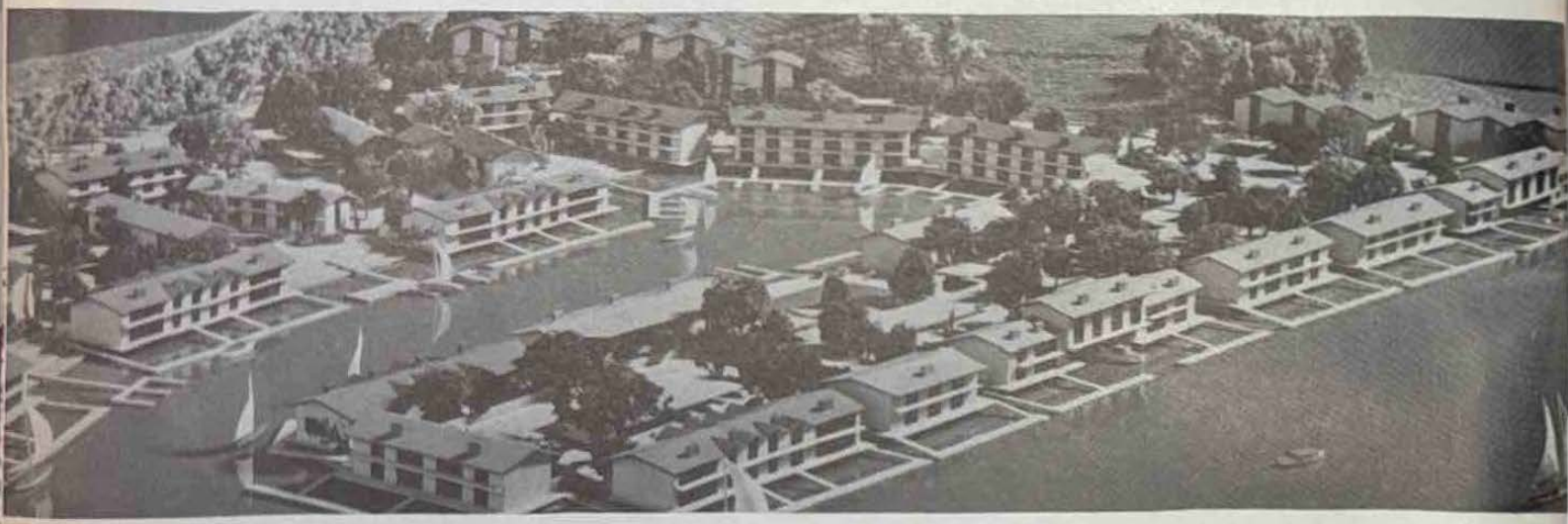
builders brick co. seattle

Serpentine site embraces the sea and sky



Job of the Month

When Sir Francis Drake sailed into the cove surrounded by Tiburon Peninsula in 1579, he could little visualize the tremendous city which would be visible from all points of this piece of land, seemingly enveloped by sea and sky, wind and wave. Yet when architect John Lord King was commissioned to design The Cove apartment project, the spectacular view of San Francisco from each of the planned 270 apartments was a "must." Because the terrain of the cove was such that setting buildings in a straight line would not only limit the number of buildings, but would also restrict the view, a serpentine placement was arranged.



Each apartment, facing the waters of the cove, will have its own protected boat harbor and private docking facility, lanai or deck. A private garden entrance will give direct access to the water.

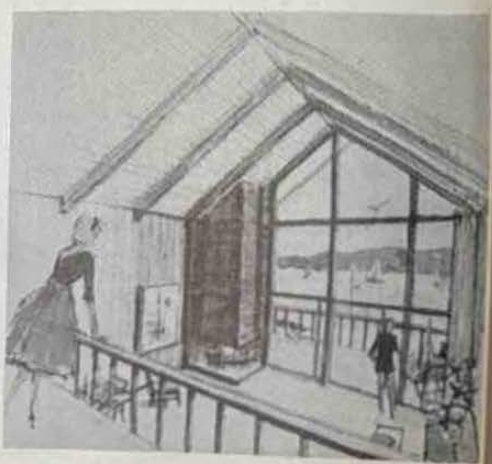
The entire Cove project is being erected on land dredged up out of the Bay — a man-created building site. Each apartment will, in effect, actually extend over the water. Concrete piles are used in those instances where building will be over water when the tide is in. Where the piles are on solid land, pressure treated wood piles are placed. All buildings are on piles to a minimum depth of 25 ft. or to firm soil. In some areas where piles go down as much as 40 ft., they actually become friction piles. Batter piles are driven at an angle into soft ground, making a triangular rigid frame and preventing building sway.

Those buildings which, when the tide is in, sit on water, actually will rest on huge pre-cast concrete tables set on piles. Tables average 36 ft. wide and as much as 110 ft. long. Frame of the buildings goes on these tables. The difficulty of sinking pylons correctly was largely overcome by the close proximity in which the architect worked with consulting engineer Elmore Hutchison, the soils engineers and excavators.

Apartments will be contained in a variety of structures ranging from buildings with six apartments to buildings with 12 apartments. Sizes will range from minimum—one bath, bedroom, living room and kitchen—to the largest which will feature three bedrooms and two and one-half baths. Each will also have handsome fireplaces, beam ceilings, large view windows, selected hardwood paneled walls, built-in convenience facilities. Apartments will be unfurnished except for carpets, curtains, drapes, fixtures. Colors will be muted and indigenous to countryside.

All roofs are cedar shingles. Buildings have party-wall construction with every effort being made to provide up-to-date methods of sound-proofing. Principal rooms face gardens, swimming pools and open water. One closed carport for each apartment plus one open space for guest parking is allowed, additional to large community parking area.

The $8 million project is being built by Associated Contractors and Leon Wheatley, Inc., for Harry Hicks, Jr. and Hugo Nadaner, northern California real estate developer and home builder, respectively.



firm changes

The partnership of Therkildsen and Meese, architects, has been dissolved. Henry Therkildsen, Architect, will continue under this name at 1915 Oxford Lane, Casper, Wyoming.

The recent death of A. W. Boehning, Sr., has changed the firm name of Boehning & Boehning to Joe Boehning, Architect & Engineer, at 1843 Lomas Blvd. N.E., Albuquerque.

Risley & Gould, Architects, with offices at 2502 W. Third St., Los Angeles, announce the reorganization of their corporation, now to be known as Risley, Gould & Van Heuklyn, Architects. The design staff has been increased by addition of Miklos Barabas, graduate architect, Polytechnic of Budapest, Hungary.

Nielsen, Moffatt & Wolverton, Architects and Engineers, announce the new firm name and the appointment of Donald L. Wolverton, Architect, as a partner in the firm. They are located at 4336 Leimert Boulevard, Los Angeles.

William L. Pereira & Associates, Los Angeles, announce that Menlo L. Williams has become an associate in the firm.

Orville G. Lee, architect with Lee & Snell, Pullman, Wash., has joined Section 233 of the Federal Housing Administration, Washington, D. C. Lynford K. Snell, Jr., will retain the firm under the name of Lyn Snell, Architect & Associates.

Martin Ray Young, Jr., announces the admittance of Raymond L. Steinbeigle into associateship in his office at 50 South Udall St., Mesa, Arizona.

Masten, Hurd & Gwathmey, Architects, announce the formation of a California corporation to be known as The Office of Masten & Hurd, Inc., Gwathmey, Sellier, Crosby, Masten & Hurd, Architects. Principal offices are at 526 Powell Street, San Francisco. The original partnership of Masten and Hurd was established in 1919 by Charles F. Masten and Lester W. Hurd.

P. E. Buchli & Associates has changed the firm name to P. E. Buchli, Architect-A.I.A., with the move into new offices at 100 West Camelback Road, Phoenix.

new addresses

Piel, Slater, Small & Spenst, Architects, to Suite 101, 5303 East Evans, Denver.

Nielsen and Maxwell, consulting engineers, to 337 South 6th East, Salt Lake City.

W. J. Wellenstein to 2804 Northern Lights Blvd., Anchorage.

John Reed to 12 Marberry Plaza, 5905 Marble N.E., Albuquerque.

P. Daniel Read to 561 Monroe Street, Corvallis.

Jack Horowitz to 2401 Hyperion Ave., Los Angeles.

David E. Miller to 30141 Silverado Canyon Rd., Silverado, Calif.

Roy A. Sealey to 7966 Beverly Boulevard, Los Angeles.

Ward W. Deems to 8302 Paseo del Ocaso, La Jolla, from San Diego.

J. Richard Wilson to 137 W. Lexington Ave., El Cajon, Calif.

miscellany

Robert Anshen, FAIA, principal in the firm of Anshen & Allen, San Francisco, is one of three nationally known architects named to the jury for the 1963 third annual Reynolds Aluminum prize for architectural students. The prize confers $2,500 to the student submitting the best original design of a building component in aluminum and $2,500 to the school attended by the winner.

Edward T. Foulkes, 88, Oakland architect, has announced his retirement from practice. Mr. Foulkes, who studied at Stanford, MIT, Ecole Des Beaux Arts, has had a long career in architecture, designing many outstanding buildings and serving on many community, civic and state commissions. His principal works include the Tribune Tower in Oakland.

Ernest Kump & Associates, Palo Alto, are among six nationally known architectural firms who have accepted invitations to participate in an architectural competition to design an instructional communications and research center to be located on the campus of Rensselaer Polytechnic Institute, Troy, New York.

elections

Orange County Chapter, AIA, has elected this slate of officers for 1963: Wilson V. Woodman, president; Richard Layne Tom, vice president; Charles M. Wickett, secretary; Gared N. Smith, treasurer; Les Schwager, Everett E. Parks, K. Stanley Bell and Jack M. George, directors. Council delegates are immediate past president Jack George and Wilson Woodman with alternates Ray W. Johnson and Paul O. Davis.

George Tresler, Cody, has been elected president of the Wyoming Chapter, AIA. Other new officers: Morris Kemper, Cheyenne, vice president, and Paul Graves, Cheyenne, secretary-treasurer.

Louis Schmerber is new president of the recently formed Salem (Oregon) Chapter, AIA. John Groom has been elected vice president; Benjamin Cave, treasurer; Warren Carkin, secretary; James Payne and Don Richardson, directors.

Central Arizona Chapter, AIA, has named Charles L. Hickman, Mesa, president for 1963. Other elected officers: John Schotanus, Jr., Phoenix, vice president; Francis Bricker, Phoenix, treasurer; and Lester H. Laraway, Robert Sexton and Bennie Gonzales, all of Phoenix, directors.

Rodney S. Davis of Fisher & Davis, Denver, was installed as president of the Colorado Chapter, AIA, on January 17. Other new officers are Theodore J. Moore; Denver, vice president; John McGuire, Denver, secretary; James H. Johnson, Lakewood, treasurer.

Northern California Chapter, AIA, have elected the following officers for 1963: Alton S. Lee, San Francisco, president; Eugene E. Crawford, San Rafael, vice president; Aaron Green, San Francisco, secretary; E. T. Hirschman, San Francisco, treasurer; Rex W. Allen and William Watson, San Francisco, and John Fisher-Smith, Mill Valley, directors.

Officers for the 1963 term elected by Pasadena Chaper, AIA, are: Kenneth A. Gordon, president; Boyd E. Georgi, vice president; Ward R. Helman, secretary; Irving C. Rector, treasurer; F. Kirk Helm, Carl McElvy, Richard W. Rose and Robert E. Tryon, directors.

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awards and appointments

Three Utah architects were honored at a first ann Award of Merit luncheon sponsored by the Intermoun Chapter, Producers Council, in Salt Lake City last mo Governor George D. Clyde presented certificates to F L. Markham, Provo, Raymond J. Ashton and Geo Cannon Young, Salt Lake City, all FAIA.

Awards were based on service to their respec communities, to the promotion of greater affiliation accomplishment by the AIA and the Producers' Cou in joint ventures, and the value of each individu effort in advancing the high standards of integrity the upholding of the creeds of the American Institute Architects.

Richard Norman, Portland architect, has been nam to a five-year term on the Oregon State Board of Ar tectural Examiners.

Jay Dewey Harnish, partner in the firm of Harn Morgan and Causey, Los Angeles, has been appointed a full term on the California State Board of Architectu Examiners.

Charles L. Hickman, Horlbeck-Hickman & Associa Mesa, Arizona, has been named chairman of the City Mesa Planning & Zoning Board.

The appointment of two architectural firms as consu ants to the University of Washington's Long-Range Pla ning Council in developments plans for the south camp and central campus areas have been approved by t University's Board of Regents.

Naramore, Bain, Brady & Johanson, Seattle, will ass in the development plan for the south campus area, a Walker & McGough, Spokane, in the programming a planning study for the central campus area.

Jones & Emmons, Los Angeles architects, designed t Richard A. Henigan home, San Rafael, which won national and a qualifying regional merit award f Eichler Homes, Inc., Palo Alto, in the Parents Magazi 13th annual builders competition. The same two firm also won a neighborhood planning award for the Luc Valley Community of San Rafael.

California Council, AIA, has nominated Los Angel architect C. Day Woodford to be its representative o the Board of Directors, American Institute of Architect Woodford is a principal in the firm of Woodford Bernard. The position, currently held by Malcolm H Reynolds, FAIA, Oakland, will be assumed by Woodfor at the close of the AIA convention in May.

Harris P. Sharp, Las Vegas, of Walter Zick & Harr Sharp, Architects-Engineers, has been appointed a mem ber of the Nevada State Board of Architecture.

Irwin Luckman, Oakland, has been appointed chief o the plans, design and construction department of the Eas Bay Regional Park District. In this capacity he wi supervise the master planning, design and constructio of all park development in the 12,000-acre Regional Par System.

Joseph Esherick, professor of architecture, Universi of California, and a member of the San Francisco A Commission, has been named to design the proposed Sa ramento Crocker Arts Center. 41 architects were considere

Seattle AIA competition cites eight equal awards

A record 44 entries in the Seattle Chapter AIA design competition admittedly gave the jurors a difficult time in selecting Honor Awards for 1962. Eight buildings completed in the last three years were given equal awards with one Citation Award going to an older building for its professional excellence and enduring quality. The Northern Life Tower, completed in 1929, was the fourth older building to be honored by the chapter's Preservation of Historic Buildings Committee since the committee was formed.

The Seattle Architectural Guild joined with architects, winning clients, civic and professional leaders, in the 12th Annual Awards presentation at the Seattle Art Museum on January 10.

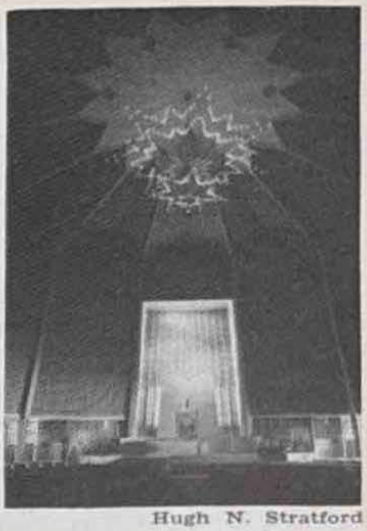
Jurors were Warnett Kennedy, executive director, Architectural Institute of British Columbia, Vancouver; Donald Lutes of Lutes and Amundson, Springfield, Oregon, and John Rohrer, Seattle.

Hugh N. Stratford

WEST COAST TELEPHONE COMPANY, General Office Building, Everett. Architects: Rolf E. Decker Architects. "This is a building of a great competence and restraint contrasting admirably with its romantic setting. The designers have managed to coordinate the site, landscaping and approaches, building form and colors, and internal furnishings in exemplary manner."

Charles R. Pearson

BEN WEEKS RESIDENCE, Seattle. Architects: Ibsen A. Nelsen and Russell B. Sabin; Gordon B. Varey, associate. "A highly successful solution for the diversified needs of the large family, with classic simplicity of the plan, recalled in consistent relationship of the steel frame and wood enclosing planes."



Hugh N. Stratford

TEMPLE de HIRSCH SANCTUARY, Seattle. Architects: B. Marcus Priteca, FAIA; Detlie & Peck. "By any standards, whether relating to aesthetic considerations, detailing or craftsmanship or construction, it is a distinguished building . . ."

Hugh N. Stratford

SEATTLE CENTER COMPLEX. Architects: Kirk, Wallace, McKinley & Associates. "This complex of buildings deserve an award not only for the high quality of each building, but also for the masterful linking of all elements into a cohesive design—and all within the limits of a difficult site and surrounding influences."

LAKESHORE CLINIC, Kirkland. Architects: Cummings & Martenson. "This building of a special type has a well organized plan, full of delight for the patient and economy of use for the doctor, utilizing forthright materials and reassuring colors."

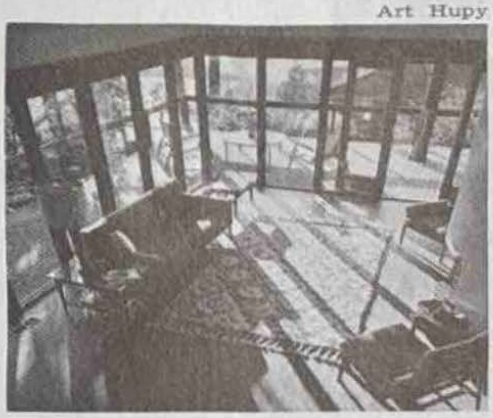
Ezra Stoller Associates

GEORGIA-PACIFIC IDEA HOUSE, Seattle. Architects: Bassetti & Morse. "Knowing that this building was a company-sponsored display effort, the jury saw it as a superbly orginal demonstration of the use of woods in residential architecture, detailed and furnished in consistently good taste."

Art Hupy

NORTHERN LIFE TOWER, Seattle. Architects: Albertson, Wilson and Richardson. "Careful attention to detail and sensitive selection of materials allowed the natural weathering process to produce a structure as pleasing to look upon today as it was thirty years ago: gracefully elegant, it is a source of inspiration to the architects of this generation. Its designers also are to be commended for consideration of the building as a whole, not just from the street fronts, as was customary then and too often today."

Art Hupy



HOMER LUPTON RESIDENCE, Seattle. Architect: Gene Zema. "The living spaces of this home are uniquely simple and appealing and seem to have been achieved without effort. The unostentatious exterior in its 'woodsy' setting complements its inner sophistication admirably."

Charles R. Pearson

UNITED STATES FEDERAL EXHIBIT BUILDING, Seattle Center. Architects: Minoru Yamasaki and Associates, Birmingham, Michigan; Naramore, Bain, Brady and Johanson, Seattle, Associated Architects. "In the realm of romantic and poetic expression this complex is a 'tour de force' —an architectural equivalent of Tschaikovsky's 'Swan Lake.' The stylistic motifs, however, bear little connotation of Science. This first-class 'fashion' architecture has been executed with consummate skill."

Tacoma architects share in first Honor Awards program

Three Tacoma architectural firms shared top honors in the Southwest Washington Chapter, AIA, first Annual Honor Award Program in December. Robert Billsbrough Price and Liddle & Jones were named as honor recipients for the Mount Tahoma High School and the Dr. Buel Sever residence, respectively.

Merit awards were given to Mary Lund Davis for the George Davis residence and the Tacoma Millwork Supply office, won in conjunction with Allan Bucholz, associate architect; Liddle and Jones for the Dr. George Tanbara town house; Robert Price for the Nell Hoyt primary school and the H. E. Anderson residence.

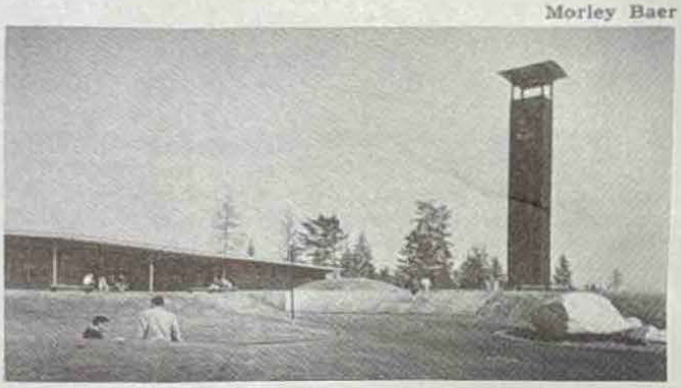
Jurors Paul Hayden Kirk, FAIA, Seattle; Walter L. Gordon, Portland; Bruce M. Walker, Spokane, commented that they were most impressed with the total quality of the work submitted.

Special artists awards went to Harold Balazs (Tahoma murals) and Mrs. Buel Sever (woven skylights).

Maarten Photo

TACOMA MILLWORK OFFICE, Tacoma. Architects: Mary Lund Davis; Allan Bucholz, associate. "A simple, relaxed, sophisticated conception of an environment for a business enterprise. Sets a precedent for quality in a modest scaled commercial architecture as we might hope to see in greater quantity in the Pacific Northwest. The office reflects the fine progressive cabinet work that is being produced by this company."

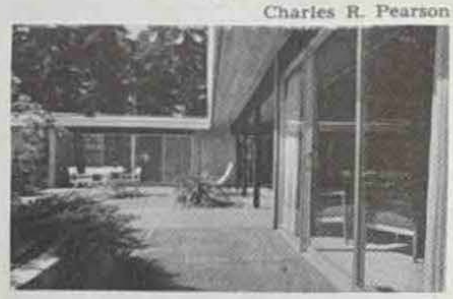
Morley Baer



MOUNT TAHOMA SENIOR HIGH SCHOOL, Tacoma. Architect: Robert Billsbrough Price. "A carefully studied design, demonstrating a high degree of continuity in its arrangement of architectural and landscaped spaces. Provides a stimulating atmosphere of education with clear design distinctions made between the various elements of the curriculum. A project in which sound economic materials were used."

DR. BUEL L. SEVER RESIDENCE, Tacoma. Architects: Liddle & Jones. "A tremendously impressive living environment, obviously reflecting a stimulating setting for the many rich cultural interests of its occupants. A wonderful example of harmony between architecture and the people housed."

Charles R. Pearson

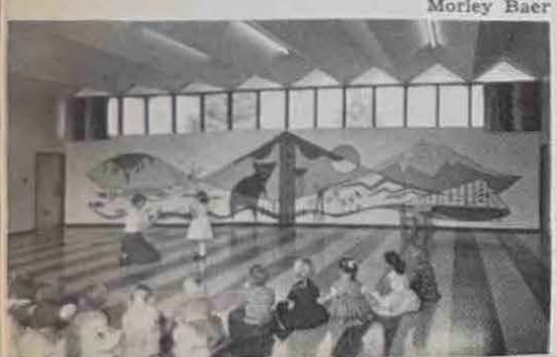


H. E. ANDERSON RESIDENCE, Tacoma. Architect: Robert Billsbrough Price. "A fine professional job of residential design, with a quality of continuity and precision. Excellent colors and architectural details, providing luxurious, elegant environment."

Dearborn-Mas

DR. GEORGE TANBARA RESIDENCE, Tacom Architects: Liddle & Jones. "A beautiful executed town house with an imaginative integrated landscape scheme. An examp where a fine contemporary design integrat well into an old, existing neighborhood

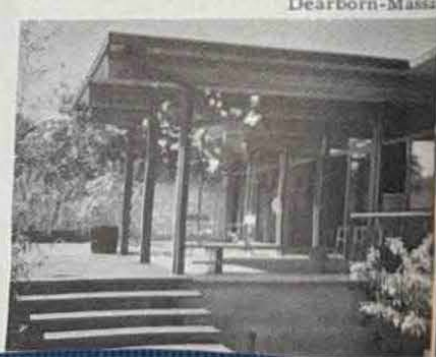
Morley Baer



NELL HOYT PRIMARY SCHOOL, Tacoma. Architects: Robert Billsbrough Price. "A joyful, colorful school, truly scaled for small children. Providing an imaginative, stimulating environment for elementary school life."

GEORGE DAVIS RESIDENCE, Tacoma. Architect: Mary Lund Davis. "An excellent example of fine design, sensitively detailed, intelligently planned with distinctive and highly individual interior and exterior spaces. A house that offers the maximum in living."

Dearborn-Massa



HORIZONTAL BUILDING in the Southwest and particularly in California was advocated recently by Professor Henry Charles Burge of the University of California's School of Architecture and Fine Arts, and we commented on this editorially in the October issue of A/W. He suggested building one story high and five miles long in the future. At the moment, the inclination seems to be to stretch them out in the other direction, and on these pages we take a quick look at a few of the cloud ticklers.—The editors.

High Rise in the Southwest

ONCE the pale blue line of mountain peaks provided the only skyline Southwesterners knew. Now, the skyline is broken by the familiar face of concrete and steel.

Tall buildings are rising throughout the Southwest for the first time, in a new architectural trend that emphasizes the space theme so prominent in New Mexico and Arizona.

Higher real estate values make it imperative that developers construct as much building as possible in the minimum available space.

Rambling structures once synonymous with the Southwest are lost in the shadows of buildings considered "skyscrapers" by southwesterners, although eastern cousins would probably consider the word pretentious.

Despite problems of de-centralization, several cities are clustering their new, tall buildings in the downtown area. But Albuquerque and Phoenix are unique in that their tallest buildings are well removed from downtown.

The $5,500,000, 17-story First National Bank East opened February 14 at 5301 Central NE, 57 blocks east of the Albuquerque's core area.

The 20-floor, $5,000,000 Guaranty National Bank Building opened March 4, 1960, at 3550 Central Ave. in Phoenix, more than 40 blocks from the core area in Arizona's largest city.

Three blocks farther, Del E. Webb, co-owner of the New York Yankees and head of one of the west's largest construction organizations, has built a 17-story headquarters office building that is the twin sister of the First National Bank in Albuquerque.

The Webb building in Phoenix will be the central fixture in what Webb hopes will become the western counterpart to New York's Rockefeller Center.

To be called the Rosenweig Center, after Isaac Rosenweig, it will

California Federal Savings Plaza
Wilshire Boulevard

Phoenix Title Building Tucson

feature, in addition to the Webb building, a high-rise office building, a multi-story hotel, a high-rise apartment house and a large retail store with rooftop parking.

An informed source reports that a similar development is planned on the six-acre tract surrounding the First National Bank Building East in Albuquerque.

That building, and the $4,000,000 Bank of New Mexico Building in downtown Albuquerque, indicate what is happening in New Mexico's largest city. The 15-story Bank of New Mexico building is financed by a syndicate including Arkansas' investor Winthrop Rockefeller.

The First National Bank Building is owned by Webb, which explains its similarity to the Webb building in Phoenix. The point, however, is that outside money is finding its way into Albuquerque for the fi time, permitting construction of such buildings.

Meanwhile, the federal government opened bids January on a new $6,900,000, 13-story building in dow town Albuquerque. Plans for this structure come l than two years after the General Services Administr tion completed a block-long, eight-story building Albuquerque.

The city itself is abandoning its antiquated, thre story city hall in favor of a glass-and-steel tower sev stories high and costing $1,700,000. Bernalillo Coun in which Albuquerque is situated, starts constructi this spring on a $1,900,000 courthouse and office buil ing.

The high-rise apartment boom is on in Albuquerqu M. M. Hardin, Albuquerque investor and businessma and Dan Ponder, El Paso banker, will break ground summer on a 16-story apartment building in Albuque que.

Contractor Bruce Hebenstreit announced a 12-flo apartment building, settled with one of ten. It is ope and selling successfully.

There are at least four other proposals for high-ris or multi-floor apartment structures in Albuquerqu White-Winrock Hotel, which in 1962 opened a lo rambling motor hotel affair in Rockefeller's $10,000,0 Winrock Center in Albuquerque, is considering a 1 story addition including convention facilities.

Tucson, meanwhile, has lagged in the developme of tall buildings, although construction permits a competitive with its three southwestern sisters.

Tallest structure is the Phoenix Title Building, $4 000,000, 11-floors high and as smart as anything in Phoe nix, Albuquerque or El Paso. It was opened on Febr ary 14, 1962, on the site where the first American fla was raised in Arizona after the Mexican War.

With the development of tall buildings has com greater sophistication in all four Southwestern Cities Phoenix opened the exclusive new Cloud Club atop th Guaranty Bank Building, and the Albuquerque Cit Club will occupy the top two floors of the new Firs National Bank Building. The Albuquerque Petroleu Club operates atop the Bank of New Mexico Building

The City Club is different in that it will offer, i

Bank of New Mexico Albuquerque

addition to cuisine and refreshments, a complete health facility and sauna "dry heat" bath of the European variety.

Jason Moore, of the architectural firm of Flatow, Moore, Bryan and Fairburn, Albuquerque—which designed both the First National Bank Building East in Albuquerque, and the Del Webb building in Phoenix—explains the development of southwestern skyscrapers this way:

"I think the primary reason to build bigger structures is for the convenience of the people who work in the building.

"This allows them to be near other facilities without having to cross town or fight parking problems.

"Traffic is increasing in direct proportion to population. Although we have freeways and wide, fast arterials, it is still 17 miles from one side of Albuquerque to the other.

"Although we theoretically have lots of land, the land we have in choice locations is increasingly expensive. Therefore, we try to use as little land as possible."

Albuquerque realtor Gene E. Hinkle, of Walker and Hinkle, Inc., leasing and managerial agents for the First National Bank Building, believes Albuquerque has just awakened from "a commercial slumber" that has lasted from its inception until five years ago.

"Due to this increasing commercial awareness, private enterprise is seeking to upgrade itself from single-purpose buildings off main arterials to all-purpose buildings with adequate parking facilities and services on principal arterials.

"We could see the development of a series of core areas, each accommodating a separate business region, as the city grows. The tendency here, and also in Phoenix, seems to be toward commercial islands, each practically self-sufficient.

"We are experiencing a similar upgrading in homeowners moving to garden-style or high-rise apartments."

All this development, of course, comes from sudden growth that has seen these four southwestern cities more than double their populations in the past 10 years.

With the emphasis on research and development, and nuclear and space-age production, prime contractors and subcontractors began providing jobs for the many thousands pouring into the area each month.

It is as if each of these four cities for the first time began thinking of space in terms of architecture as well as an important factor in their economy.

Wilshire, Sunset and Westwood Village . . .

Reach Towards the Sky for Their Place in the Sun

NOT LONG AGO the Southern California Chapter, AIA, membership took a tour of a refurbishing program now going on in the oldest section of Los Angeles, tourist-famed Olvera Street and the Old Plaza. There they saw the beginnings of Los Angeles, including the first fire house, the first major hotel building and the first theater. Under the supervision of Architect Burnett C. Turner, these buildings will maintain their original charm and architecture.

Architects returning from that meeting, must have been struck as they drove down Wilshire Boulevard—or perhaps touched on Sunset or drove into Beverly Hills or Westwood Village—by the great contrast between the old and the new Los Angeles.

The dynamic city has gone a long way from those early years and rapid changes are taking place at a breathtaking speed. The old theory of Los Angeles planners that when one area developed, just spread out to another area, has caught up with those dreamers who felt vastness of the city could never reach its growth potential. Freeways hurried out to meet the shopping center that had hurried out to meet the new tract developments. In this helter skelter massive growth, traffic and social problems resulted that in all probability will never be fully overcome.

Several years ago in spite of the ungrounded fear of

The Travelers Wilshire Boulevard

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a whole new world of floor fashions

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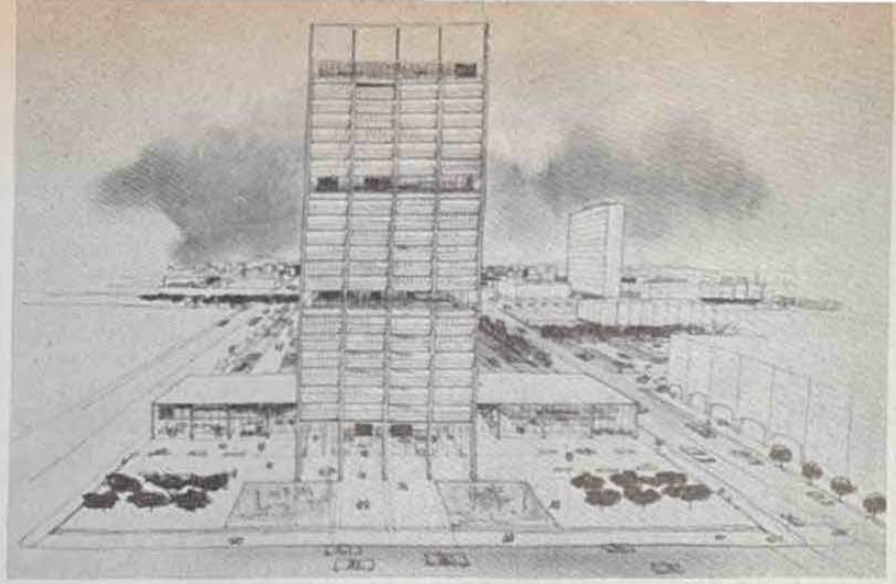

Proposed—Standard Life Insurance Building Los Angeles

earthquakes as related to tall buildings it was finally decided to let Los Angeles build UP instead of OUT. It was a decision filled with set-back requirements, parking necessities, etc. However wise the requirements, it did clear the way for a new kind of Los Angeles and Southern California. Architectural design concepts changed, too, and the results can now be viewed from the San Fernando Valley to Orange County. But the main examples of this new growth can be found on Wilshire, Sunset and Westwood Village.

How does it look to the average citizen? From the air, especially helicopter, it is magnificent. The city reaches out and up with dramatic intensity and a sense of rhythm. It is a sight to behold. But from a pedestrian point of view it can be overpowering. In fact much of the beauty is missed because of scale. Unlike New York and Chicago there is not enough of the high rise and they are not high enough to give a feeling of awe and accomplishment. Instead there is a feeling of a city still building—still seeking to find itself.

Some architects look to The Travelers Insurance Company building as a fine example of the new Los Angeles high rise. Yet some architects point it out as an example of what is wrong with high rise design. From the front, as a pedestrian, one can get a feeling of architectural concept. Look at it from the window of another building and there is a flatness and sameness, never evident in the old Los Angeles office buildings. The new J. Paul Getty building on Wilshire and Western, is still under construction. Already it has dwarfed the buildings around it. Again this building has a feeling of remoteness that may eventually be overcome when the area has more height-limit buildings.

The greatest furor and public interest has taken place in once quiet Westwood Village, a beautifully planned community adjacent to U.C.L.A. Stringent zoning and building codes kept Westwood a beautiful residential area with shops and buildings to match. Now height limit buildings are beginning to invade its skyline and the result is not a pleasing one to many.

Edward H. Fickett, Los Angeles architect, believes that this kind of area should be carefully guarded in order to protect its original planning concept.

"We all knew a few years ago that Wilshire Boulevard would become the site of many high rise office buildings and certainly were ready to accept this fact, but I can see no reason to ruin a perfectly good ar such as Westwood when there is no real need for Fickett said.

One community that seems to favor strict contr over tall buildings is Beverly Hills. The city has gra ed numerous variances to permit eight story buildin but the City Council now favors a "freeze" on the fo story limit.

George Konheim, president of Buckeye Constructi Co., believes that eight-story buildings with proper s backs will actually enhance the beauty of Beverly Hi because they can be much more beautiful than "a gre mass of four-story boxes covering every square foo

Bram Goldsmith, Konheim's partner says: "We lo our residential community, but it is a two-way stre Our property values, of which we are so proud, are pr dicated on land values, and these in turn are determine by the profitability of land use. If you analyze econom values and the use of property, you will see how unfa it would be to attempt to impose unrealistic restrictio The City of Los Angeles permits a maximum density Wilshire Boulevard of 13 times the ground area and lows the developer the necessary high latitude with that density formula, resulting in excellent light and a conditioned buildings with lavish landscaping an plazas. Intelligent planning demands that properti be developed on a sound, economical basis and that th buildings reflect the status of Wilshire Boulevard as th Madison Avenue and Park Avenue of the Greater L Angeles area," so says Mr. Goldsmith.

But the citizens of Beverly Hills, which has ofte been called one of the most beautiful cities in the U.S might never be convinced that height is beauty and le offensive if poorly designed and conceived.

No matter what architects, builders and planner really think of the height limit structures, it looks as they are going to grow in numbers. Land costs dictat this and the days of the old Moorish-styled office build ings with inner courts bigger than office space availabl are at an end. Some Angelenos will mourn this passing some will look at it as an inevitable bow to progress an still others will cheer it as a "new age of architecture. Whatever side you are on in this city, it would be hard to say that it isn't exciting to see something grow so large that it couldn't grow out any longer, but had to reach up to the sky to find its place in the sun.—*William G. Quinn*

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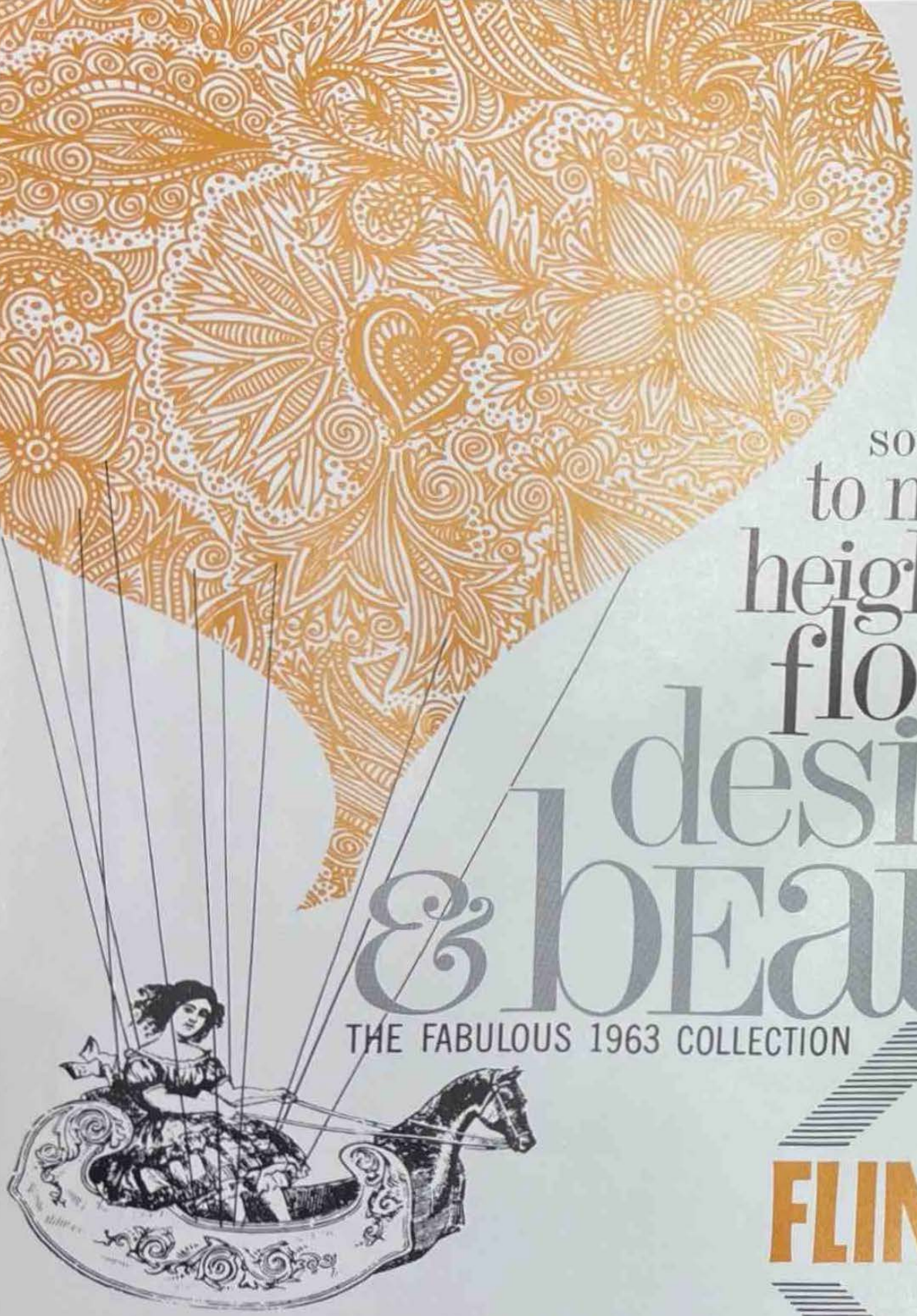

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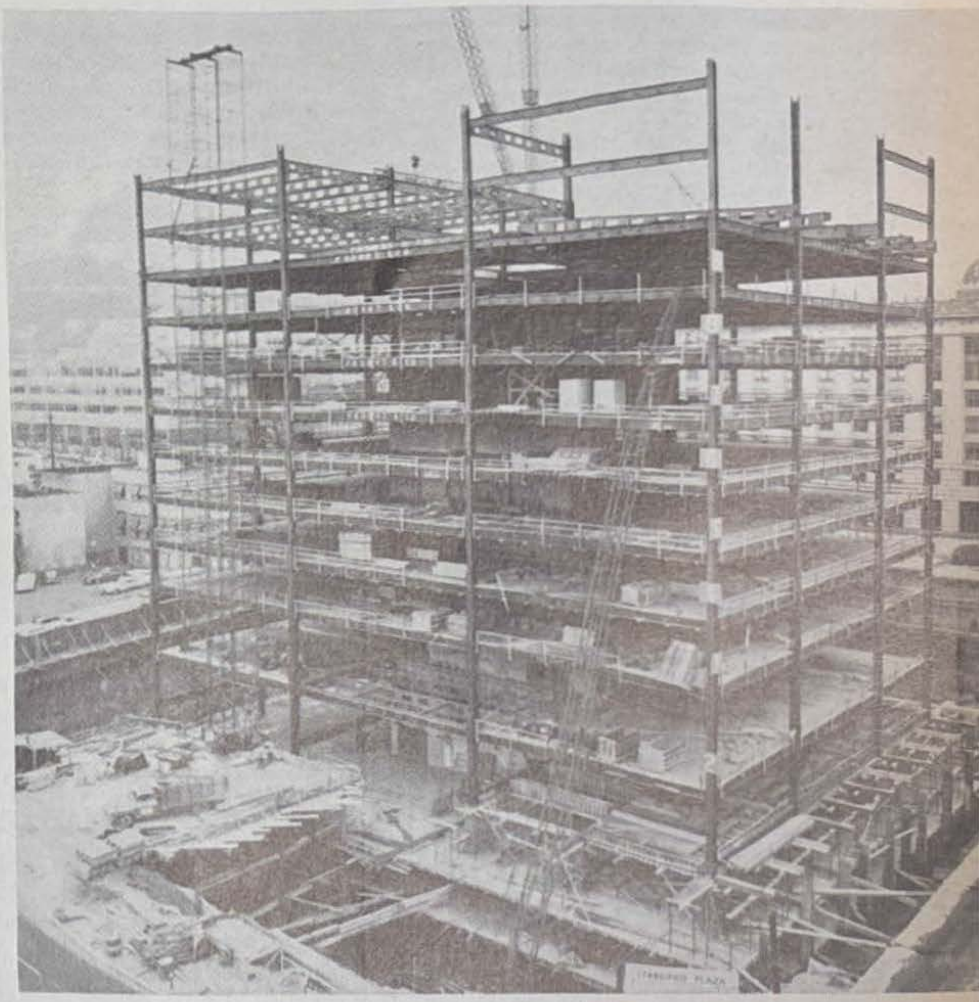
High Rise Buildings Are Not All Peas in a Pod—*A new approach*



THE NEW STANDARD PLAZA office building nearing completion in Portland is considered by many to be a sort of technical "break through" for the steel industry. It is the first tier building in the country to utilize alloy steel for the entire structural frame.

The steel structure is an example—and probably one of the few in the building industry—of end-result specifications. Specifications were written for steel to meet performance criteria rather than material specification, thus opening the door to a new approach in solving structural problems.

It is estimated that the beams and girders for the 16-story tower structure —fabricated by Fought & Co. of alloy steel provided by Kaiser and Bethlehem —are 580 tons lighter than might have been expected using conventional steel specifications. This is a saving of 21.6% in weight, and 15.4% in cost, to say nothing of savings in erection time and equipment.

The building will house offices of Standard Insurance Co. and its tenants. Fifteen of its sixteen stories are 13 feet, the top story is 20 feet, for a total height of 203 feet above a landscaped plaza in the central city area. Below ground are three service and parking levels. There is a central service core of waffle slab reinforced concrete construction, and the structural steel tower rises around this core, embracing an area of 155x106 feet. Steel columns are spaced around the perimeter; all beams and girders are long span, 35 to 50 feet, thus providing 13,150 square feet of column-free, unobstructed office space on each floor.

The heaviest girders weigh only 5,100 pounds and were easily handled into place by a light 140-foot stiffleg derrick and boom. Members are bolted, utilizing 13,500 high tensile strength 3/4-inch bolts.

The $8 1/2-million structure, which was ceremoniously "topped out" in May 1962, is now being buttoned up with a curtain wall skin of aluminum and glass, in another novel method—the whole building is being "glazed on the ground."

Cupples Products Co. of St. Louis is the subcontractor on this phase of the work, and is having the aluminum sash and frames glazed with honey colored imported "Smoked Topaz" heat and glare resistant glass prior to installation of the skin on the building.

Architect is Skidmore, Owings & Merrill. Structural engineers, Cooper & Rose & Associates. General contractor, Andersen-Westfall Co.

Ins and outs of the up-and-down business--

PRE-PLANNING THE ELEVATOR PLANT

By William Heidenreich
staff engineer
Charles W. Lerch & Associates

SELECTION of the elevator plant to go into new construction is usually a pleasant task for the building owner or his architect. Elevators are the life-lines of the building, and if the owner has been dealing with outmoded equipment, the increased efficiency and modernity of new elevators is appealing.

Yet the most important steps in elevators are those to be taken when the building is still in the design stage. This is when careful, measured thinking is in order.

Primary considerations include the location of the elevators in the building, the number of elevators and their grouping, and then the standards of performance applied in qualifying these choices.

It would seem that the points to be covered are those everyone knows. But experience in analyzing and planning elevator plants for all types of buildings indicates on the contrary that this "everyone knows" group must be small indeed, so often are those basics overlooked.

Here are the points to be looked at first when the building is in the design stage:

1. **Location of elevators in building.** The elevators ought to be close to the main traffic-generating door. In morning and evening peaks, this may be the door nearest the building's parking lot. Many designers of buildings where shops are to be located on the main floor want to build traffic for these shops. This is understandable, but it is unwise to put elevators too far out of sight.
2. **Creation of more than one heavy traffic generating floor in the lower part of the building.** This situation occurs in buildings where main entrances are provided on two different floors; in buildings where there is a large self-parking garage below street level, and in hotels where the lobby is above the street level. If one additional traffic generating floor is provided, approximately 20 to 25 seconds is added to the average round trip time of an elevator.
3. **Restaurants, cocktail lounges, etc. located above the ground floor, especially at the top of a building.** This also lengthens round trip time and may create a very serious additional objection in the neglect of service to other floors of the building if elevators are traveling to and from these special floors with fully loaded cars. If only one or two elevators of a group are arranged to provide special service to these floors (as is often proposed), the result may be even worse.
4. **Use of one passenger elevator to handle all freight in the building.** Usually an attempt will be made to schedule freight handling between the morning, noon and evening rush hours, but this ruling will be abused or, if an additional elevator is out of service, the passenger service for tenants will become unsatisfactory even during the tight traffic hours. Buildings with more than 300,000 sq. ft. of rentable or usable office space usually require a full time freight elevator operated independently of the passenger elevators.

The four points mentioned above are those which present themselves most frequently in initial planning for the elevator plant. There are many others, but experience shows that if proper attention is given to these basic factors, those which may be considered special are far less likely to be overlooked.

Performance Standards

In describing these elevator situations several terms frequently encountered in elevator engineering are used. These terms are qualified as follows:

1. **Round Trip Time.** This is measured from the time the passengers start entering an elevator at the main lower terminal; it continues while the elevator travels up through the hoistway, stopping at the various floors for which calls are registered; and is concluded when the elevator arrives again at the lower main terminal and has discharged its passengers. The round trip time may be measured by stop watch or it can be calculated. The calculation must take into consideration the number of probable stops which will be made and the following factors:
   - Accelerating and decelerating time.
   - Running time.
   - Door time—opening and closing.
   - Passenger transfer time—loading and unloading.

2. **Average Interval of Departure.** The interval between departure of elevators from the lower dispatching floor is determined by measuring the interval between cars and using the average of these figures, or it is calculated by dividing the round trip time by the number of elevators in the group or system.

3. **Average Time to Destination.** The average time that elapses from the instant the hall button is pressed at the 1st floor until the passenger emerges at his desired floor is referred to as the Average Time to Destination. It can be measured for an actual installation or it can be calculated by taking the sum of ½ the Average Departure interval and ¼ the Round Trip Time.

4. **Handling Capacity.** The handling capacity of a group of elevators is difficult to determine by observation on an installation unless all the elevators are fully loaded when they leave or arrive at the 1st floor. It is calculated by determining the number of persons fully loaded elevators will carry away from the 1st floor in a five minute period. When this figure is taken as a percentage of the total building population, it is referred to as the Handling Capacity.

Planning the Groups of Elevators

A large group of elevators serving too many floors can provide an excellent interval and a poor time to destination. These conditions can be avoided by limiting the number of floors served.

By installing two groups of elevators instead of one; one group for service to the lower floors and the other for service to the upper floors, the total number of floors served by any of the elevators will be reduced, thereby reducing the round trip time and the time to destination.

This relates to conditions in any office building—those with many tenants as well as those with single tenants—during the morning up peak period. In a single tenant building or a multi-tenant building, with one or more tenants occupying several floors, there may be considerable interfloor traffic during the day and the average time to destination may be poor all day. This condition will increase the average time to destination with any elevator plant; an excessive increase on those banks of elevators which serve more than 12 or 14 floors.

The measurement of average time to destination thus is the yardstick for determining the maximum number of floors which should be served by a group of elevators. When this figure exceeds 50 seconds during the morning up peak, a great improvement in service can be realized by having more than one group of elevators.

The arguments against several groups of elevators instead of one group are twofold; first, that the cost will be excessive and second, that the total building area occupied by elevators will be excessive. Neither of these arguments is tenable.

Although a greater total number of elevators may be required in order to provide two banks of elevators for local and express service instead of one group of local elevators serving all floors, it is possible that the rated capacity and speed of the individual elevators will be **lower**. Also, the service will be **better**, the area oc-

pied by the elevators **less**, and the st **lower.**

The calculations involved in determining the performance of a group of evators approach but do not reach xact science. The number of stops at an elevator will make during a ip is based on the law of probabilies. The acceleration time, deceleraon time, running speed, etc. are based n engineering data and are accurate nder ideal conditions and with a roperly adjusted plant. The passnger transfer time is based on formlas and human averages.

Interval of Departure and Handling apacity have been given priority ver Time to Destination in most eleator plant designs, although this proedure is not unanimous.

Standards for elevator performance vhich may be called excellent vary rom city to city and depend as well pon the type of building and its tenncy. For a first class building in the eart of the business district of a large ity, with most of the tenants occupyng less than one floor, excellent ervice during the morning up peak vould call for:

Interval of Departure—20-25 seconds.

Handling Capacity—13 to 15% of the building population in 5 minutes.

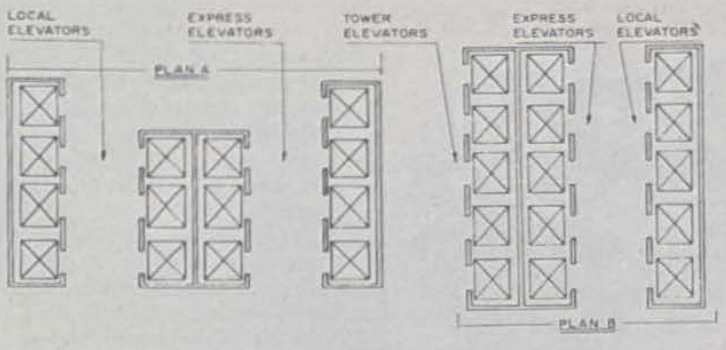
Time to Destination—45 seconds.

If the same building was occupied by a single tenant, the percentages for handling capacity would go up to 17 or 20, but the interval of departure would remain the same.

If these were the only two measures considered in designing an elevator plant and the service was excellent in both of these categories, it is possible that the tenants could still be dissatisfied with the elevator service. It may take an excessive amount of riding time to arrive at one's destination.

Concerning the relative importance between the time required to wait for an elevator and the time required to travel to one's destination, it is the contention here that too much weight has been given to the former. The chief argument in the past for giving little weight to the measure of Time to Destination has been that once a person has entered an elevator, the feeling of idle wasting is past and he is now speeding to his destination. This, of course, is seldom the case in a busy office building during the morning peak or in a single tenant building throughout the day. Considerable irritation can develop while standing in the elevator car and watching floor button after floor button being pressed as people enter the elevator, resulting in many delays at these floors while the elevator stops and discharges passengers.

Table illustrates the difference in elevator service if three groups of elevators are installed in a 30 story building instead of two groups.



Plan A — Two Groups of Elevators

No. of Elevs. in Group	Capacity & Speed	Floors Served	Interval (Seconds)	Time to Destination (Seconds)	Handling Capacity
7 Local	3500# at 700 fpm	1 to 17	25.1	56.5	13.5%
7 Express	3000# at 900 fpm	1, 17 to 30	24.5	55.0	14.5%
	Average for the building		24.8	55.7	14.0%

Plan B — Three Groups of Elevators

No. of Elevs. in Group	Capacity & Speed	Floors Served	Interval (Seconds)	Time to Destination (Seconds)	Handling Capacity
5 Local	3000# at 500 fpm	1 to 12	27.7	48.6	13.8%
5 Express	2500# at 700 fpm	1, 12 to 21	27.2	47.6	12.9%
5 Tower	2000# at 900 fpm	1, 21 to 30	26.5	46.4	12.5%
	Average for the building		27.1	47.5	13.1%

RESULTS

(Plan B — 3 Groups — Recommended)

Interval	9.3% longer
Time to Destination	14.8% shorter
Handling Capacity	6.4% less

Some sacrifice is made in the interval and handling capacity in the three groups of elevators in Plan B as compared to Plan A in achieving a much improved time to destination. It will also be noted that the capacity and speed of the elevators serving the lower floors in Plan B are of smaller capacity and lower speed than the local elevators in Plan A. Also, the elevators serving the top floors are smaller in Plan B than in Plan A.

Square Feet per Floor Requirements

	Plan A (2 Group Plan)	Plan B (3 Group Plan)
1st Floor	2048 sq. ft.	2170 sq. ft.
2 to 14	1560 sq. ft.	1720 sq. ft.
15 & 16	1560 sq. ft.	1150 sq. ft.
17 to 19	2048 sq. ft.	1150 sq. ft.
20	1051 sq. ft.	1150 sq. ft.
21 to 24	1051 sq. ft.	1605 sq. ft.
25 to 30	1051 sq. ft.	792 sq. ft.
Total Area	43,200 sq. ft.	42,650 sq. ft.

Space figures include: Space occupied by machines and control equipment **within** the building. On Plan A, the 2-group plan, the machines and control equipment would be on the 18th and 19th floors. Elevator lobbies at each floor.

In making the computation, these areas were considered rentable: Plan A: The space on floors 2-16 not served by the express elevators. Plan B: The area in front of the tower elevators from floors 2-20.

The difference in total space required is only 550 square feet, favoring Plan B. It should be noted, however, that in the top 6 floors where rental rates are at a premium Plan B takes 250 square feet less on each floor, or a total advantage of 1560 square feet for these 6 floors. The additional premium rental available here through the years is a very important item.

The cost differences between these two plans is substantial. Although the Plan B recommended calls for 15 elevators; one more than Plan A, it will cost an estimated 9 per cent less. The cost difference is accounted for by the plan's lesser requirements in both elevator speed and capacity on some cars. Design of the plant makes this possible without sacrifice of efficiency or the prestige generating factors inherent in new elevators.

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KIRKEBY CENT
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NEWEST of the Westwood Village "skyscrapers" is the recently dedicated Kirkeby Center which has 15 stories (207,000 sq. ft.) of rentable office space, much of which has utilized the flexibility and individuality of Vaughan Walls.

Movable partitions have been described as the only truly and universally successful component systems yet available in a building industry that is searching its way through systems of modules and units and prebuilt sections in search of flexible economy.

Three-layer gyp partitions are lamina with wood, vinyl rics, wallpaper or p to achieve individua in a partition sy that remains mecha ally uniform, mod and movable.

In the Kirkeby Center, interiors by Vaughan Interior Walls, Inc., have been planned to allow maximum flexibility in space utilization. The sound-proof, fire-rated, movable partitions permit individual space planning designed to meet the exacting needs of each tenant.

Wall finishes throughout the structure vary according to individual taste and function, and include approximately 50% vinyl fabric, 30% wood veneers, and wallpaper and conventional paint, achieving the precise decorative effect desired in reception areas, conference rooms, offices and corridors.

These custom finishes are achieved by carefully laminating the exterior surfaces of the partitions, which are formed of three layers of fireproof gypsum. Panels are held firmly in place by aluminum floor and ceiling runners. This unique simplicity permits alteration of space allocation without disrupting office routine. Kirkeby Center is the twelfth major building on Wilshire Boulevard in Los Angeles to utilize this uniquely adaptable Vaughan Wall treatment.

Another convenience feature is ability to locate doors and windows as well as electrical outlets, wherever needed, because there are no intermediate posts to hamper installation.

Other innovations in the Kirkeby offices include a dramatically new interior two-layer skin wall, finishing the concrete spandrels and columns to satiny perfection so that, along with drape tracks and metals sills, the interior treatment is crisp and clean.

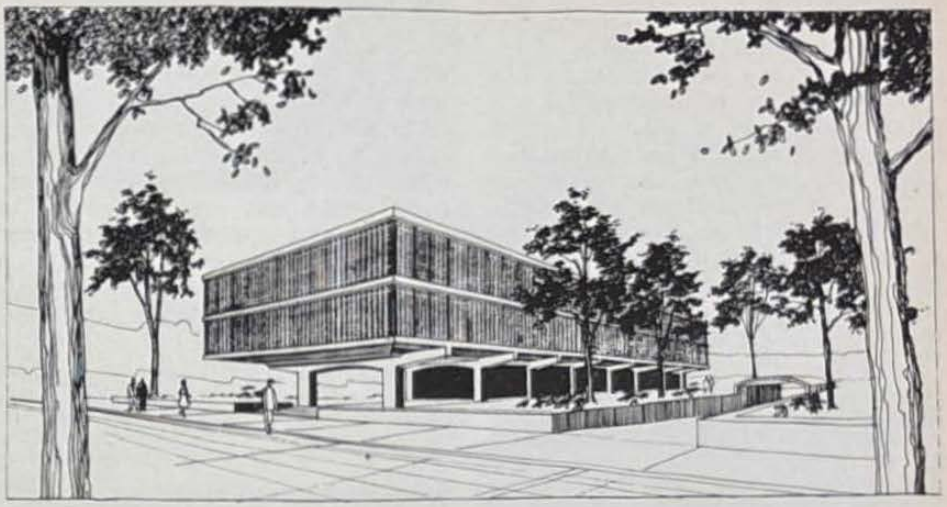
Architectural cabinets and casework were also custom designed to blend into the areas to match the wall panel veneers. These methods and designs were developed especially for the building.

The Kirkeby Center height-limit office building fills the entire block one of the city's most highly pric properties, the northeast corner of W shire and Westwood Boulevards.

The street level of the steel fram building is faced with black granit presenting an imposing base for t white marble tower. Stainless ste spandrels alternate with 4-foot shee of Solex glass between 3-foot tiers white marble; 10 feet of marble face eac side of the building's corners, addin to a monumental appearance. Ther are 583 tons of Italian marble and 8 tons of Swedish granite on the fac of the building.

Two underground garage levels and three above surface parking areas pro vide for 775 vehicles. Six high speed automatic elevators service the entir 17 levels and reach Westwood's first heliport atop the building. West Los Angeles and the metropolitan down town area are only seven minutes apart via helicopter.

Products in Action / Intaglio Glass Wall Units



A NEW ALL-GLASS BUILDING UNIT, which combines a wide variety of architectural advantages in one product, has been announced by Pittsburgh Corning Corp.

The Intaglio Glass Wall Unit is available in square and rectangular shapes into which have been recessed design areas of crystal-like clear pattern glass. The raised portion of each unit has a textured finish on which an opaque concrete-gray ceramic color has been fired. Both sides of the unit have similar treatment.

Applications include both interior and exterior walls of public, commercial, industrial and residential structures. Pittsburgh Corning officials see the units particularly well-suited for curtain walls in office buildings, schools, churches, stores, motels, hotels, banks, gymnasiums, factories, warehouses and auditoriums.

Design opportunities are enhanced by:

(1) The sparkle and life of many-faceted pattern glass.

(2) A contrast in both surface and color between the crystal-like design and the surrounding textured opaque gray areas.

(3) A definitive light and shadow effect caused by recessing the design areas.

(4) Almost limitless design opportunities made possible by varied positioning and combinations of the four designs.

The material is a "one operation" wall structure with interior and exterior effects provided by the same material. In addition, since the interior of the hollow units is at a partial vacuum, the wall has an insulation value equal to that of twelve inches of concrete.

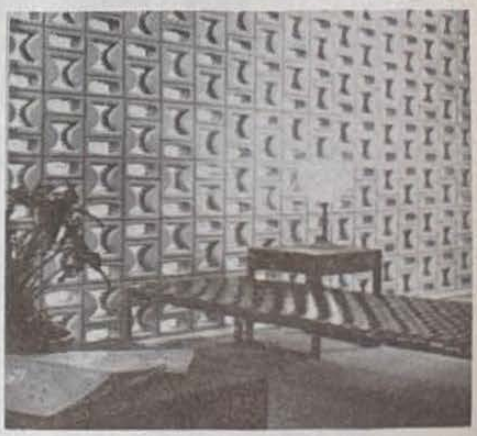
Some inspiration for the new unit came from the metal or concrete sun screens which have seen widespread use in the past several years.

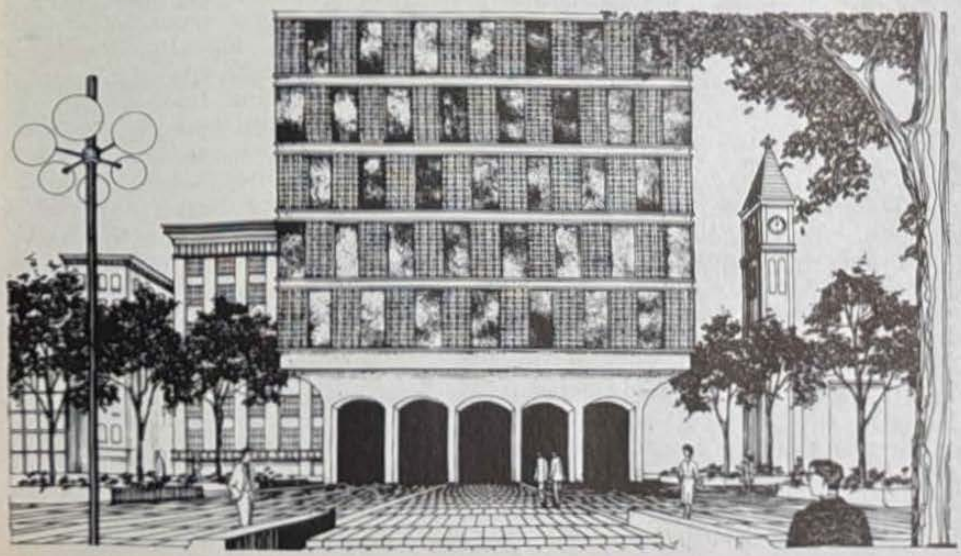
Three of the four currently available patterns are on 8-in. square units. The fourth is on a rectangular unit, 8 by 4 in. All are 4 in. thick. The Circle, Hourglass and Nugget designs are on square Intaglio units. The Oval design is pressed into the rectangular one.

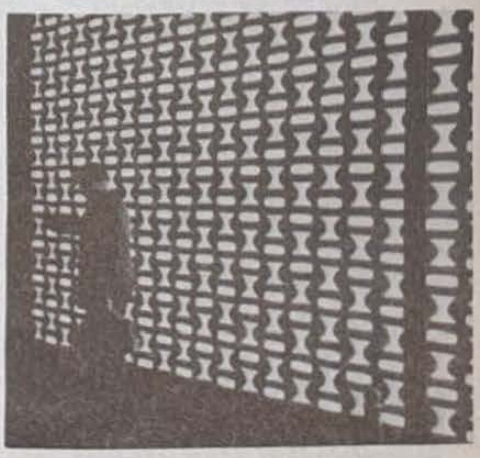
The ceramic finish sprayed on the raised portions of both faces is fired at high temperatures to assure permanence. This gray finish blends with the mortar used to erect the units, and tends to eliminate any sharp delineation between them.

Although a portion of the Intaglio surface is opaque, the clear glass areas have a light transmission rating of 20 to 40%. The inside of the clear areas is patterned to permit even diffusion of light without glare, and the texture is so designed that there can be no focusing effect.

Weathering tests have shown that the ceramic finish on the opaque portions cannot be damaged by acids, alkalis, sulphides or abrasion, and will not fade in even the brightest sunlight.

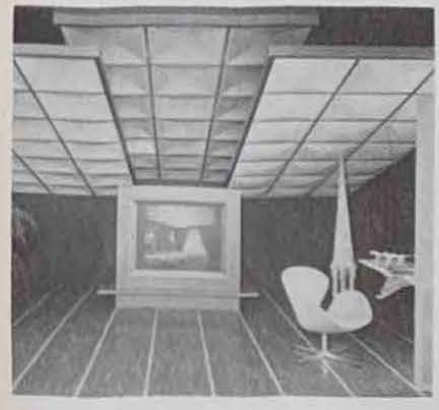






high-rise enclosures

A line of custom movable ceiling-high partitions allows the erection of enclosures up to a height of 10 ft. 2 in. without the use of intermediate cornices, top fillers or other materials. Glass areas can be tailored to the customer's requirements and are not restricted to manufacturer's standards. Wood-grain finish (choose from twelve patterns) is reproduced directly on the panels and protected with baked-on synthetic resin.—Evans Products Co., (A/W) Haskelite Division, Plymouth, Mich.



vault-form acoustical panel

Acousti-Shell is now available in textured vault and inverted vault forms. The latest shapes have a painted surface and are about half the cost of the original panel, which had a fiber glass fabric facing. All three types of panel are designed to provide interesting ceiling where high style is required. The textured vault panel features a rippled surface on its concave side. The inverted vault panel, installed with the vault projecting downward, creates a three-dimensional ceiling with an unusual ovoid character. All three styles are 24 in. square and two in. deep. The lay-in panels are supported by a suspended grid system.—Johns-Manville, (A/W), 22 East 40th St., New York 16, N.Y.

roller coater cements

A series of heat- and water-resistant thermosetting contact adhesives that can be applied by spray, roller coater or curtain coating techniques is suitable for exterior applications such as curtain walls and building panels for prefabricated homes. The contact cements produce instant bonds without the use of elaborate clamping equipment or long pressing cycles.—National Starch and Chemical Corp, (A/W) 750 Third Ave., New York 17, N. Y.

glowing bubble

An easily-installed fixture called the Bubble-Lite has a luminous collar and diffuser. Its 30-in. diameter is equivalent to five square feet of luminous ceiling, providing increased light levels with comfortably low brightness. The light fits over any existing light socket and can be installed in less than 10 minutes, using a non-slip adhesive to fasten the collar to a reflector foil. The Bubble-Lite seals to the ceiling, eliminating light leaks and dirt accumulation from bugs or dust.—United Lighting and Ceiling Co., (A/W), 2828 Ford St., Oakland, Calif.

fire-fighting wallboard

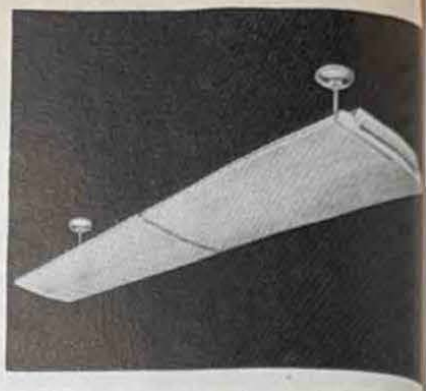
A two-hour fire resistance rating has been assigned to a gypsum wallboard floor and ceiling assembly by the ASTM. This is reported to be the first construction of its kind to earn this rating. The assembly employed a single layer of ⅝-in. type "X" gypsum wallboard secured to metal furring channels. Over the steel bar joists there was 2½ in. of reinforced concrete. After successfully passing the fire and hose stream tests, the assembly was double-loaded and passed this test also—Gypsum Association, (A/W) 1350 No. Highland Ave., Hollywood 28, Calif.

tamperproof door switch

A security system designed for industrial and military buildings will sound bells, buzzers or other alarm devices whenever a protected door or window is open. It is a non-magnetic door switch, hidden when the door is closed, and said to be almost impossible to spot or to defeat. Warping or shrinking doors or frames will not put the switch out of alignment.—Minneapolis-Honeywell Regulator Co., (A/W), 2727 Fourth Ave. So., Minneapolis 8, Minn.

vinyl mosaic tile

A new embossing technique has made possible textured, three-dimensional mosaic style in vinyl asbestos tile. Multi-shaped chips, set in grout of contrasting color, are offered in textured black, white and brick red; tone-on-tone mottled effects in textured gray, green, beige and celadon are also available. Installation and maintenance are the same for the mosaic tile as for conventional vinyl asbestos tile. Kentile, Inc., (A/W), 58 Second Ave., Brooklyn, N.Y.



wing-shaped lights

A new series of direct-indirect fluorescent lighting fixtures for suspension mounting is designed with an ultra-shallow profile with wrap-around prismatic plastic enclosure. The interlocking bottom panel is vee-shaped, giving the unit a wing-shape appearance. The series incorporates a semi-enclosed lamp design for cooler operation, greater efficiency and low brightness. All metal parts are rust-inhibited and finished in hot-bonded white enamel.—Day Brite Lighting, (A/W), 6261 No. Broadway, St. Louis 15, Mo.

satin finish fiberglass

A soft surface look can be achieved in translucent fiberglass panel installations by specifying white or patterned "Satin Finish." It is offered in sizes suitable for diffuser panels in non-reflective luminous ceilings, and can also be used in shoji screens, partitions and room dividers. Filon Corp., (A/W) 333 N. Van Ness Ave., Hawthorne, Calif.

sidewalks of tomorrow

Moving sidewalks and ramps may be the future's answer to pedestrian congestion. Passenger conveyor systems are now being installed in transportation terminals, shopping centers, parking lots, and sports arenas, and even in self-service department stores where the customer and his shopping cart may ride from floor to floor on a moving belt. Speedwalks, for efficient horizontal transportation, and Speedramps for inclines up to 15 degrees, maintain a constant speed of 120 ft. per minute, which the manufacturer reports is safe for pedestrians of all ages. Stephens-Adamson Mfg. Co., (A/W), Aurora, Ill.

high heat for small walls

A complete line of high wattage baseboard heaters, suited for heating offices, commercial buildings and motels, has been designed to furnish

large amounts of heat in a limited amount of wall space. Protection against overheating is furnished by a thermal cutout which can be preset to the desired temperature. An automatic reset re-energizes the heaters when the temperature falls below the control point. The baseboard heaters come in 48 in., 1000 watt; 72 in., 1500 watt and 96 in., 2000 watt sizes. Electric Comfort Heating Section, General Electric Co., (A/W), Appliance Park, Louisville, Ky.

concealed clip panel

Textured aluminum roof and wall surfaces, unbroken by obvious panel joints and connectors, have been introduced by Reynolds. Deep-formed, 12-in. wide units are available in plain or Colorweld finishes. The panels can be assembled to any width; interlocking joints form a weather-tight seal. The CCP system can be adapted from single skin to insulated wall construction by clipping insulation between purlins. No additional purlins or interior walls are required.—Reynolds Metals Co., (A/W), Dept. PRD 73, Richmond 18, Va.

foam panel insulation

Roofmate FR, an expanded polystyrene extruded panel, has a denser cellular structure at the surfaces than through the center. When it is laid across wood, concrete, gypsum or steel roof decks and covered by a coated base sheet, the resulting barrier indefinitely prevents moisture passage into the roof. Installation is simple and the projected roof life is bringing cost to levels comparable to conventional types of insulating board. Building codes are being changed to accommodate use of foamed plastics, and future prospects may also include increased use of foamed urethane, Dow reports.—The Dow Chemical Co., (A/W), Midland, Mich.

shady shadow tile

A soothing, sunfiltering shade called Royal Gray has been added to the Owens-Illinois glass tile curtain wall system. The new neutral joins the other green, white and ceramic-faced hollow glass tiles presently available in the system. New contours—called "shadow tile" have also been developed in two patterns. Both tiles are 12 in.x6 in.; one is a modified hexagonal shape inside the rectangle while the other has a deep longitudinal rib in its center. Shadow tile can be used as accent tile in Thinlite grid panels.—Owens-Illinois Glass Co., (A/W), Ohio Bldg., Toledo 1, Ohio.

patterned porcelain

Hand-decorated porcelain basins in twelve patterns are now offered to those who would like a change from "washbasin white" and "sink pink." The basins are available in standard sizes: 15-in. diameter for the circular shape, 14x17 and 15x19 for the oval. Design elements range from "nature" motifs to pure pattern decor. Some patterns are random; others are arranged around the basin's perimeter. The designs, which are applied to the porcelain surface through a fusing process, have been successfully wear-tested by an impartial laboratory, the manufacturer reports. — Regency, (A/W), 5111 University Ave., San Diego 5, Calif.

all-aluminum ceilings

Textured, three-dimensional aluminum panels have been created for use with the Cupples suspended ceiling system. The panels can be used in both residential and commercial applications. The white baked enamel surface will not stain or rust, and the panels are easy to clean. Special colors and sizes (standard size is a two-foot square) can be ordered in large quantities. The panels can be alternated with panels of translucent plastic or glass to allow recessed lighting under the ceiling. By rolling mineral type blanket or laying sound absorbing pads over the panels, the ceiling provides exceptional acoustical and temperature control properties. — Alcoa Aluminum Co. of America, (A/W), 732 Alcoa Bldg., Pittsburgh 19, Pa.

decorative filigree

Despite its openwork pattern, Panelaire is described as having the strength of solid paneling. The secret support is silicon, impregnated into the hardboard. The grillework can be sawed, drilled or curved, and is suitable for room dividers, folding screens, door and furniture inserts, ceilings and shutters. The patterns are die cut into the panels, leaving smooth outer surfaces that can be painted without sanding or sealing. The Panelboard Manufacturing Co., Inc., (A/W), 222 Pacific, Newark 5, N.J.

key control for mailboxes

Apartments, hotels and motels, clubs and dormitories can solve their mailbox key problems with lock boxes now on the market. The locking mechanism of each box contains an interchangeable core. If a key is lost or stolen, the owner uses his control key to remove the core and insert another with a new pin-tumbler combination. Four sizes are available, and the owner can rearrange them to meet future space requirements. Boxes can be ordered with standard rear loading or a master door front for quick access to all boxes at one time. Doors and frames are satin finished aluminum. Best Universal Lock Co., Inc., (A/W), P. O. Box 103, Indianapolis 6, Ind.

chromate color coat

What color is Hinac? Any one of thirty, plus a clear coating. The aqueous solution is a corrosion-resistant finish for architectural components such as building panels, louvers, extrusions and window frames. It can be applied by spray, dip and roller coat methods, and requires a heat cure which brings the surface temperatures to 400 deg. F.—Metal Processing Dept., Pennsalt Chemicals Corp., (A/W) 3 Penn Center, Philadelphia 2, Pa.

Lots of stains are cheaper than Olympic

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In the can, Olympic is more expensive than some stains. On the job, it's the least expensive by far. That's because Olympic lasts years longer than ordinary stains. (Even longer than shake paint.) The reason? Ingredients. There's more pigment, more pure linseed oil and more preservative in every can of Olympic Stain. Small wonder then that Olympic keeps homes looking beautiful years longer without refinishing. And costs less per year than any other stain on the market.

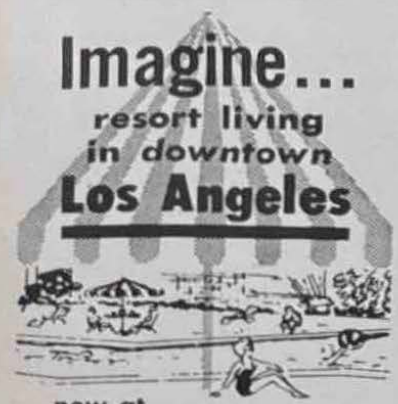
OLYMPIC STAIN, 1118 N.W. LEARY WAY, SEATTLE 7, WN.

LITERATURE

pick of the month

"Air Control Technical Manual" and "Registers, Grilles and Diffusers" are companion publications which separate technical data from product information. The purpose of the choosing/using split is to provide pertinent information for the specific job at hand, the manufacturer states. The 28-page technical manual provides ready reference for layout and design of heating systems. The sales catalog provides 44 pages of product illustrations, dimensions, free area, packs, weights and prices. A visual index makes for easy section location, and product and ordering information are conveniently close together. Both the technical manual (TM62-AC) and sales catalog (62-AC) are available from Air Control Products, Inc., Coopersville, Mich.

Cinch-Rail Aluminum Railings (AIA 14-D-2): describes Ariston adjustable post bases and the complete line of Cinch-Rail aluminum railings, and includes detailed illustrations of rails and brackets, with installation drawings; 12 pp.—Michel & Pfeffer Iron Works, Inc., 212 Shaw Road, South San Francisco, Calif.



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Acoustical Ceiling Products including PCP (AIA 39-B): catalogues a complete line of woodfiber tile, mineral tile, Pyro-Chem noncombustible woodfiber tile and woodfiber roof deck; the booklet also contains installation recommendations, attenuation factors and short form specifications; 12 pp.—Simpson Timber Co., 2044AC Washington Bldg., Seattle 1, Wash.

Design/Build with Pressure-Treated Wood (AIA 19-A-3): gives complete details on the advantages, uses and special characteristics of wood pressure-treated with different preservatives: creosote, water-borne salt, penta-base, fire-protective, specialty and gas-borne; Bulletin W-283, 4 pp. —Koppers Company, Inc., Wood Preserving Division, Pittsburgh 19, Pa.

Construction of a Trouble-Free Wood Floor System (AIA 19-E-9): details performance requirements for joists, subfloor, underlayment, fasteners, adhesives and floor coverings and gives installation instructions for Versabord underlayment; 6 pp.—Weyerhaeuser Co., Box B 183, Tacoma 1, Wash.

Marlite Paneling Catalog: covers the 1963 colors and patterns of Marlite plastic-finished wall and ceiling paneling, including woodgrain and marbled finishes; also outlines basic installation procedures; 8 pp.—Marsh Wall Products, Inc., Dover, Ohio.

Filon Fiberglass and Nylon Reinforced Panels (AIA 26-A-9): contains complete product data and technical specifications for translucent fiberglass reinforced panels. Construction details describe installations such as skylights, sidelights, patio roofs and partitions; Form 144 (8 pp.)—Filon Corporation, 333 N. Van Ness Ave., Hawthorne, Calif.

Lin Tees and Poured Gypsum Roof Systems: explains benefits offered by combining Lin Tees and poured Gypsum for 2-hour fire rated roof system construction; also shows how to provide a roof diaphragm that is resistant to seismic and other lateral forces; 4 pp.—Lin Tee Affiliates, 14656 Oxnard St., Van Nuys, Calif.

Individually-Designed Incandescent Fixtures: contains more than 100 fixtures in five categories: cylinder lights, down lights, dark lights, square boxes, and custom built lighting fixtures. Fixtures are shown in isometric drawings, in cross section and generally a bottom view is included. The data sheets give finishes, colors, and mounting details; 132 pp.—Morris Kurtzon, Inc., 1420 So. Talman Ave., Chicago 8, Ill.

Drywall Partition Systems (AIA 23-L 23-M): includes plans and specifications for semi-hollow gypsum stud drywall partitions, solid gypsum core drywall partitions; and gypsum wallboard steel stud drywall partitions. Complete information for assembly is also included.—The Celotex Corporation, 120 S. LaSalle St., Chicago, Ill.

Stock Components for the Fabrication of Architectural Metalwork (AIA 15): condenses a catalog of the firm's line of architectural metal components, including decorative screens, plastic handrails, moulding, etc. Weights, dimensions, and details are included together with sketches which indicate fabrication features and finished appearance; 28 pp.—Julius Blum & Co., Inc., Carlstadt, N.J.

Steel Doors and Frames: shows installations and hardware requirements for various styles and designs of steel doors and frames. Separate four-page brochures are available which outline choices for schools, commercial buildings, and apartments.—Amweld Building Products, Niles, Ohio.

Stainless Steel Vertical Pivot Windows (AIA 16-H): includes detailed sections, drawings and photographs of recent stainless steel window installations in five distinctive buildings across the country. The folder lists a series of suggested specifications covering function, performance, materials, construction, testing and erection; ADUCO 91052, 8 pp.—United States Steel Corporation, Room 2801, 525 William Penn Place, Pittsburgh 30, Pa.

Versatility in Wood Roof Trusses (AIA 19-B) design details on trussed rafters, pitched trusses, bowstring trusses, scissor trusses and special utility structures such as arch frames, umbrella sheds and pole frame trusses; a list of designs on file, available without charge to architects and engineers, is also included; 8 pp.—Timber Engineering Co., 1619 Massachusetts Ave. N.W., Washington 6, D. C.

Fire-Protected Wood Products (AIA 19-A): explains how Non-Com fire-protected wood reacts when attacked by flames; the uses of fire-protected wood are pointed out and illustrated, and specifications are included; Bulletin W-365, 12 pp.—Koppers Co., Inc., Wood Preserving Division, 750 Koppers Bldg., Pittsburgh 19, Pa.

• **Flangeklamp Corp.:** Formation of a new company, Flangeklamp Corp. of California, with offices and manufacturing facilities at 1441 W. Fremont, Stockton, has been announced by the parent company, Flangeklamp Corp. of Buffalo, N.Y. The new company will manufacture grid suspension systems for acoustical ceilings for distribution in the eleven western states. John Hirzel will head the California company as vice president and general manager. Dick Donagrandi is plant engineer.

• **Schlage Lock Co.:** B. M. Levinger has been appointed general manager of the San Francisco firm.

• **Koppers Co., Inc.:** Announcement of the appointment of Don C. Smith as west coast sales manager, Wood Preserving Division, western district office, Los Angeles, has been made by the Pittsburgh headquarters.

• **Hawaiian Cement Corp.:** Nathanial Potter, secretary-treasurer and sales manager, has been elected to the company's board of directors.

• **Weyerhaeuser Company:** John G. Lewis has been appointed as assistant to Construction Market Manager Gene T. Skrivan in the wood products division.

• **Pioneer Manufacturing Co.:** Recent expansion and reorganization of the Los Angeles firm has resulted in several new appointments according to board chairman Ray Polverini. Paul R. Dolan has become president of Pioneer; John C. Hall, manager of manufacturing; Robert Diamond, production manager; John F. MacRae, quality control manager. The 39 year old firm manufactures plumbing, heating and air conditioning equipment.

• **Tubular Structures Corp.:** A & B Equipment Co., 669 Ahua St., Honolulu, has been appointed exclusive Hawaiian sales representative for the complete line of scaffolding manufactured by the Los Angeles firm.

• **Potlatch Forests, Inc.:** R. P. Peyran, Lewiston, Idaho, has been appointed sales manager of specialty products.

• **Permanente Cement Co.:** David B. Ballash has been appointed superintendent of Permanente's new $10 million cement plant now under construction near Helena, Montana.

• **A. B. Boyd Company:** The Los Angeles firm, distributor of architectural and non-metallic industrial products, has expanded warehouse operations to include carrying a complete line of Koroseal vinyl wall coverings. Koroseal, manufactured by the Consumer Division of B. F. Goodrich Company, has been shipped direct from Marietta, Ohio, to western states prior to this expansion. E. A. Lusch, president of the Boyd Company, announces that Seattle, San Francisco and Portland will also stock Koroseal.

• **Robertshaw - Fulton Controls Co.:** Robert H. Macfarland has been appointed branch manager for the Control Systems Division in the Los Angeles metropolitan area. Offices are at 2600 East Eighth St., Los Angeles.

• **General Electric:** The Silicone Products Dept. has opened a new sales office in the Dexter Horton Bldg., Seattle, under the supervision of Milan E. Groby. The new office will cover Montana, Idaho, Oregon and Washington. Everett L. Peterson has been appointed sales representative for the division with headquarters in Downey, California.

IT'S NEW RECESSED HAWS AIR COOLED

Slim, trim, compact... Haws new HDFC recessed water cooler nestles in the wall, providing pre-cooled water with push-button ease. Both fountain and concealed cooler are housed in colorful pressure molded fiberglass (choose blue, beige or white). A steel mounting frame is furnished for simplified in-the-wall attachment. Never have you seen such a compact AIR-COOLED refrigeration unit! It avoids waste and plumbing code problems often encountered with water-cooled units. Haws HDFC wall coolers offer both 6 gph and 12 gph capacity ranges; contact Haws for detailed specs. It's new... recessed... fiberglass... air-cooled! Find out about *HAWS HDFC Recessed Cooler.*

HAWS

For specification sheets on Haws HDFC coolers, write to:

HAWS DRINKING FAUCET COMPANY

General Offices: 1441 FOURTH STREET • BERKELEY 10, CALIFORNIA

Export Dept.: 19 COLUMBUS AVENUE • SAN FRANCISCO 11, CALIFORNIA, U. S. A.

Building Permit Totals

First Column Figures in Parentheses are Number of Residential Units • Second Column is Do

CALIFORNIA	# Res.	$ Value	Total $
Alameda	(71)	$ 648,290	$ 729,720
Alameda Co.	(45)	542,450	864,790
Albany	( )	Nil	97,125
Alhambra	(69)	577,500	910,370
Anaheim	(210)	1,852,600	4,483,705
Antioch	(8)	64,200	72,083
Arcadia	(25)	342,973	514,105
Arroyo Grande	(19)	190,790	3,287,510
Artesia	(2)	36,000	76,300
Atherton	(1)	68,000	93,890
Atwater	( )	Nil	5,600
Auburn	( )	No Reply	No Reply
Avalon	( )	Nil	11,650
Azusa	(63)	459,320	575,250
Bakersfield	(49)	576,200	684,330
Baldwin Park	(21)	189,400	230,145
Banning	(2)	24,250	63,195
Barstow	(2)	27,800	44,860
Bell	(22)	139,750	192,965
Bellflower	(51)	431,100	535,395
Bell Gardens	(16)	147,000	202,305
Belmont	(25)	298,500	326,530
Benicia	( )	Nil	2,750
Berkeley	(64)	508,750	913,774
Beverly Hills	(8)	170,000	335,602
Bradbury	( )	Nil	7,700
Brawley	( )	Nil	48,095
Brea	(45)	1,078,513	1,143,848
Buena Park	(13)	133,272	906,150
Burbank	(55)	369,000	827,826
Burlingame*	(5)	*	1,693,630
Butte Co.	(152)	1,197,594	1,244,175
Calexico	(4)	31,000	41,600
Campbell	( )	Nil	109,850
Carlsbad	(25)	352,415	444,978
Carmel	(3)	36,000	46,050
Chico	(27)	229,700	237,000
Chino	(36)	288,596	754,870
Chula Vista	(38)	388,697	426,384
Claremont	(80)	1,240,040	1,276,190
Coalinga	(2)	29,600	30,300
Colton	(3)	32,162	319,133
Commerce	(10)	87,200	1,850,985
Compton	(30)	175,000	364,000
Concord*	(108)	*	1,680,310
Cntra Csta Co	(108)	1,646,185	2,255,100
Corona	(9)	95,812	144,189
Coronado	( )	No Reply	No Reply
Corte Madera	(19)	356,614	379,314
Costa Mesa	(103)	1,680,165	2,083,512
Covina	(17)	170,880	214,550
Cudahy	(61)	366,000	420,825
Culver City	(1)	17,000	76,339
Dairy Valley	( )	Nil	19,800
Daly City	(9)	129,150	335,164
Davis	(15)	232,000	288,180
Delano	(6)	75,500	102,600
Downey	(156)	1,016,137	2,100,451
Duarte	( )	Nil	34,610
El Cajon	(3)	58,200	696,300
El Centro	(7)	38,990	71,110
El Cerrito	(13)	160,237	244,338
El Dorado Co.*	(59)	*	1,622,487
El Monte	(28)	178,008	414,509
El Segundo	(18)	181,000	386,520
Emeryville	( )	No Reply	No Reply
Escondido	(1)	10,680	178,731
Eureka	(2)	37,300	808,877
Fairfield	( )	Nil	353,664
Fillmore	(6)	79,808	91,746
Fontana	(9)	142,594	225,265
Fremont	(239)	3,271,930	3,463,852
Fresno	(141)	1,340,856	2,325,874
Fresno Co.	(50)	584,624	1,013,000
Fullerton	(49)	658,141	911,409
Glendale	(140)	1,345,548	2,147,914
Glendora	(5)	126,500	131,050
Hlf Moon Bay	(9)	93,000	104,700
Hanford	(2)	28,240	304,680
Hawthorne	( )	No Reply	No Reply
Hayward	(53)	367,734	739,747
Hemet	(8)	86,500	132,192
Hermosa Bch	(27)	366,758	411,207
Hidden Hills	(2)	63,500	65,100
Hillsborough	(2)	93,000	107,100
Holtville	( )	Nil	1,650
Humboldt Co.	(17)	255,416	408,262
Huntingtn Bch	(208)	2,390,610	7,793,639
Hntington Prk	(20)	190,240	389,240
Imperial Co.	( )	Nil	32,000
Indio	(38)	627,000	678,440
Industry	( )	Nil	679,294
Inglewood	(81)	1,087,804	1,290,247
Irwindale	( )	Nil	7,950
Kern Co.	(108)	1,557,678	2,223,645
Laguna Beach	(35)	647,019	741,499
La Habra	(63)	682,666	733,318
Lakewood	(52)	640,200	741,400
La Mesa	(39)	603,305	683,246
La Mirada	(1)	16,500	59,500
La Puente	(7)	63,120	142,886
La Verne	(2)	53,500	80,320
Lawndale	(11)	101,200	187,772
Lindsay	( )	Nil	4,900
Livermore	(5)	65,000	231,079
Lodi	(16)	213,950	237,550
Lompoc	(99)	1,246,735	2,641,630
Long Beach	(226)	1,423,960	3,161,650
Los Altos	(7)	172,000	348,432
Los Angeles	(2,678)	29,110,218	75,384,313
Ls Angls Co.	(1,935)	20,253,785	25,783,147
Los Gatos	(42)	567,000	686,700
Lynwood	(36)	296,250	334,461
Madera	(8)	89,536	135,041
Madera Co.	(5)	49,500	114,800
Manhttn Bech	(5)	89,050	126,685
Manteca	(4)	37,000	60,369
Marin Co.	(143)	1,679,510	1,913,999
Martinez	(5)	78,300	105,235
Marysville	( )	Nil	167,800
Maywood	(12)	98,570	115,582
Menlo Park*	(10)	*	559,390
Merced	(22)	81,844	89,824
Merced Co.	(19)	300,800	389,465
Millbrae	(6)	137,700	162,535
Mill Valley	(3)	86,000	97,466
Modesto	(40)	534,500	674,099
Monrovia	(109)	878,177	1,036,570
Montclair	( )	Nil	16,475
Montebello	(121)	1,193,883	1,613,170
Monterey	(56)	337,500	356,430
Monterey Co.*	(50)	*	741,718
Monterey Park	(29)	244,250	299,089
Mountain View	(267)	2,019,145	3,875,621
Napa	(11)	111,116	299,858
Napa Co.	(10)	122,800	536,431
National City	(6)	53,568	79,910
Newprt Beach	(111)	2,393,678	2,870,938
No. Sacrmento	(6)	34,464	137,479
Norwalk	(120)	718,800	901,845
Novato	(14)	230,500	251,650
Oakdale	(2)	40,690	44,980
Oakland	(577)	8,430,921	9,955,161
Oceanside	(13)	165,500	464,001
Ojai	(1)	15,228	51,064
Ontario	(386)	3,080,508	3,152,422
Orange	(393)	6,310,200	6,584,091
Orange Co.	(255)	5,023,820	5,463,755
Oroville	(21)	160,910	211,679
Oxnard	(199)	2,059,000	2,489,283
Pacifica	(35)	388,900	411,230
Pacific Grove	(10)	106,500	213,723
Palm Sprngs*	(36)	*	1,728,471
Palo Alto	(61)	542,982	723,377
Pals Verdes Es	(10)	440,859	649,119
Paramount	(29)	229,700	359,700
Pasadena	(50)	552,735	2,156,499
Paso Robles	(2)	22,000	25,950
Pico Rivera	(39)	172,500	260,150
Piedmont	(1)	40,000	70,634
Pinole	(11)	*	*
Pittsburg	(2)	24,522	832,416
Placentia	(27)	477,510	478,502
Placer Co.	(27)	388,715	896,149
Pleasanton	( )	Nil	Nil
Pomona	(120)	1,760,290	2,643,840
Porterville	(1)	9,000	23,950
Port Hueneme	(5)	25,000	29,760
Red Bluff	(7)	70,347	218,547
Redding	(6)	93,300	132,600
Redlands	(15)	206,300	700,878
Redondo Bech	(60)	579,000	725,715
Redwood City	(44)	359,220	595,892
Richmond	(38)	339,094	620,391
Riverside	(30)	363,200	1,434,055
Riverside Co.	(232)	2,821,988	4,183,595
Rolling Hills	( )	Nil	3,500
Rolling Hills Es	(2)	68,290	305,290
Rosemead	(19)	231,900	268,185
Roseville	(29)	245,360	259,660
Sacramento	(58)	658,800	1,547,500
Sacrmento Co.	(519)	5,132,818	8,107,196
St. Helena	(1)	18,750	18,950
Salinas	(7)	97,000	220,790
San Brnrdino	(54)	663,194	1,116,[illegible]
San Brndno Co	(367)	3,200,961	5,841,[illegible]
San Bruno	(59)	800,800	800,[illegible]
San Carlos	(22)	289,112	451,[illegible]
San Clemente	( )	No Reply	No Re[illegible]
San Diego	(185)	2,175,263	9,211,[illegible]
San Diego Co.	(187)	2,614,000	5,077,[illegible]
San Dimas	(2)	37,300	44,[illegible]
San Fernando	( )	Nil	14,[illegible]
San Francisco	(277)	3,019,212	8,282,[illegible]
San Gabriel	(22)	199,204	202,[illegible]
Sanger	(13)	138,185	146,[illegible]
San Jacinto	(9)	80,495	134,[illegible]
Sn Joaqun Co.	(37)	380,628	744,[illegible]
San Jose	(406)	4,726,500	7,366,[illegible]
San Leandro	(39)	510,435	640,[illegible]
Sn Luis Obspo	(82)	628,640	758,[illegible]
Sn Ls Obsp Co*	(36)	*	767,[illegible]
San Marino	(1)	75,000	202,[illegible]
San Mateo	(46)	466,000	602,[illegible]
San Mato Co.	(125)	1,612,550	1,852,[illegible]
San Pablo	(42)	303,960	307,[illegible]
San Rafael	(34)	642,373	1,074,[illegible]
Santa Ana	(262)	2,747,054	4,110,[illegible]
Santa Barbara	(109)	1,171,100	1,356,[illegible]
Snta Brbra Co	(156)	2,364,000	3,200,[illegible]
Santa Clara	(112)	1,122,100	1,382,[illegible]
Santa Clra Co.	(204)	1,193,475	2,943,[illegible]
Santa Cruz	(59)	420,991	580,[illegible]
Santa Crz Co.*	(89)	*	1,413,[illegible]
Snt Fe Sprngs	( )	Nil	85,[illegible]
Santa Maria	(148)	1,502,387	3,331,[illegible]
Santa Monica	(34)	297,440	746,[illegible]
Santa Paula	( )	Nil	56,[illegible]
Santa Rosa	(122)	1,099,625	1,723,[illegible]
Sausalito	(6)	126,000	179,[illegible]
Seal Beach	(385)	2,847,740	3,892,[illegible]
Seaside	(4)	47,000	91,[illegible]
Selma	( )	Nil	6,[illegible]
Shasta Co.	(39)	461,062	567,[illegible]
Sierra Madre	(26)	266,500	281,[illegible]
Solano Co.	(2)	36,242	80,[illegible]
Sonoma Co.	(77)	768,496	960,[illegible]
South Gate	(40)	263,000	325,[illegible]
South El Mnte	( )	Nil	85,[illegible]
South Pasadna	(6)	81,752	128,[illegible]
S San Frncisco	(7)	71,150	444,[illegible]
Stanislaus Co.	(31)	314,650	552,[illegible]
Stockton	(12)	116,240	536,[illegible]
Sunnyvale	(387)	4,340,400	5,018,[illegible]
Temple City	(26)	354,700	494,[illegible]
Torrance	(269)	2,183,070	2,801,[illegible]
Tracy	(2)	12,000	27,[illegible]
Tulare	(2)	15,100	598,[illegible]
Tulare Co.	(118)	609,458	857,[illegible]
Turlock	( )	Nil	631,[illegible]
Ukiah	( )	Nil	30,[illegible]
Upland	(96)	1,446,650	1,489,[illegible]
Vacaville	(11)	146,517	180,[illegible]
Vallejo	(21)	208,450	428,[illegible]
Ventura	(33)	344,045	617,[illegible]
Ventura Co.	(283)	4,023,400	6,296,[illegible]
Visalia	(38)	539,810	710,[illegible]
Walnut	( )	Nil	97,[illegible]
Walnut Creek	(187)	1,375,275	1,890,[illegible]
Wasco	( )	Nil	2,[illegible]
Watsonville	(5)	70,500	113,[illegible]
West Covina	( )	Nil	78,[illegible]
Whittier	(28)	369,300	1,058,[illegible]
Woodland	(10)	129,000	320,[illegible]
Woodside	( )	No Reply	No Rep[illegible]
Yolo Co.	(26)	250,409	364,[illegible]
Yreka	( )	Nil	17,[illegible]
Yuba City	(1)	5,000	245,[illegible]
Yuba Co.	(15)	120,210	138,[illegible]
Total	**(18,615)**	**$200,105,067**	**$356,541,[illegible]**

OREGON			
Albany	(3)	$ 45,400	$ 64,[illegible]
Ashland	(4)	58,500	71,[illegible]
Astoria	(1)	19,000	29,[illegible]
Baker	( )	Nil	12,[illegible]
Beaverton*	(14)	*	237,[illegible]
Bend	(2)	26,500	61,[illegible]
Central Point	(8)	69,500	73,[illegible]
Clackamas Co.	(28)	376,500	520,[illegible]
Coos Bay	( )	Nil	42,[illegible]
Corvallis	(7)	62,000	75,[illegible]
Dallas	(1)	13,000	33,[illegible]
Douglas Co.	(4)	35,000	330,[illegible]
Eugene*	(48)	*	541,[illegible]
Forest Grove	(1)	16,000	16,[illegible]
Grants Pass	(5)	67,500	94,[illegible]

*Complete figures not available

Western States for December

idential Permits Only • Third Column is Total Dollar Value of All Permits, Including Residential

	# Res.	$ Value	Total $
Gresham	(5)	50,000	56,999
Hermiston	(4)	58,085	61,285
Hillsboro	(9)	136,500	144,700
Hood River	( )	No Reply	No Reply
Klamath Falls	( )	Nil	8,460
La Grande	( )	Nil	128,000
Lake Oswego	(5)	104,500	157,450
Lane Co.	(55)	493,864	609,632
Lebanon	(1)	7,000	12,650
Marion Co.	(32)	281,500	521,493
McMinnville	(2)	24,000	37,778
Medford	(11)	124,500	214,864
Milton-Frwater	( )	Nil	18,450
Milwaukie	(13)	173,580	378,690
Multnomah Co	(83)	1,224,500	2,651,147
Newberg	( )	Nil	1,800
Newport	(2)	29,000	83,000
North Bend	(4)	56,000	60,774
Ontario	(4)	39,000	39,600
Oregon City	(1)	12,500	29,670
Oswego	(5)	104,500	157,400
Pendleton	( )	Nil	27,890
Portland	(27)	324,200	2,837,560
Roseburg	(2)	13,860	60,124
St. Helens	( )	Nil	33,200
Salem	(7)	74,887	171,351
Seaside	( )	Nil	Nil
Springfield	(16)	186,973	229,336
The Dalles	(3)	39,500	56,430
Washingtn Co	(46)	761,800	838,270
Total	**(463)**	**$ 5,108,249**	**$ 11,833,508**
WASHINGTON			
Aberdeen	( )	Nil	$ 26,660
Anacortes	(2)	$ 22,000	53,580
Auburn	(16)	143,000	241,100
Bellevue	(5)	150,000	311,850
Bellingham	(2)	26,000	414,456
Bremerton	(3)	48,000	68,980
Camas	( )	Nil	6,275
Centralia	(1)	14,000	152,012
Chehalis	( )	Nil	5,887
Clark Co.	(25)	278,700	305,870
Clarkston	( )	Nil	8,690
Edmonds	(12)	211,500	240,300
Ellensburg	( )	Nil	11,052
Enumclaw	( )	Nil	5,160
Ephrata	(1)	19,000	22,535
Everett	(10)	158,265	572,463
Grays Hrbr Co	(4)	21,900	26,850
Hoquiam	( )	Nil	9,756
Island Co.	(13)	132,000	142,400
Kelso	(7)	73,000	87,529
Kennewick	(30)	340,900	415,300
Kent	(6)	94,000	1,266,468
King Co.	(401)	5,763,365	8,092,745
Kirkland	(4)	62,600	62,750
Longview	(10)	131,500	913,226
Lynnwood	(6)	75,810	92,400
Mercer Island	(15)	346,515	1,140,655
Moses Lake	(2)	33,400	43,268
Mountlke Trrc	(7)	92,000	109,020
Olympia	(1)	10,000	64,554
Pasco	(9)	95,600	102,105
Pierce Co.	(50)	752,515	1,020,270
Port Angeles	(3)	40,500	43,300
Pullman	( )	Nil	109,100
Puyallup	(1)	12,000	241,450
Renton	(25)	302,900	800,566
Richland*	(20)	*	313,771
Seattle	(183)	1,973,500	7,198,821
Shelton	( )	Nil	50
Spokane	(11)	134,000	584,446
Spokane Co.	(14)	231,850	433,404
Sunnyside	(1)	16,000	40,000
Tacoma	(25)	398,650	1,109,353
Thurston Co.	(7)	40,000	55,300
Vancouver	(19)	221,000	477,267
Walla Walla	( )	Nil	40,971
Wlla Wlla Co	(4)	57,385	76,635
Wenatchee	(1)	14,300	146,690
Yakima	(5)	68,000	138,225
Total	**(961)**	**$ 12,605,655**	**$ 27,850,605**
ALASKA			
Anchorage	( )	Nil	$ 92,000
Fairbanks	( )	Nil	9,750
Juneau	(1)	$ 30,000	216,200
Ketchikan	( )	Nil	35,800
Total	**(1)**	**$ 30,000**	**$ 353,750**

	# Res.	$ Value	Total $
IDAHO			
Blackfoot	(7)	$ 112,000	$ 182,975
Boise	(24)	281,370	559,230
Burley	(3)	44,000	48,855
Caldwell	(5)	81,500	198,250
Coeur d'Alene	(3)	40,612	183,010
Idaho Falls	(40)	420,455	464,864
Jerome	( )	Nil	10,000
Lewiston*	(44)	*	234,843
Moscow	(2)	25,000	25,200
Nampa	(5)	80,210	119,810
Payette	(2)	22,500	32,000
Pocatello	(8)	91,000	110,250
Sandpoint	( )	Nil	4,000
St. Maries	( )	No Reply	No Reply
Twin Falls	(4)	33,000	83,600
Total	**(147)**	**$ 1,231,647**	**$ 2,256,887**
MONTANA			
Anaconda	( )	Nil	$ 1,000
Billings	(20)	$ 251,400	353,880
Bozeman	(2)	38,000	57,200
Butte	( )	Nil	Nil
Cut Bank	(1)	13,000	13,000
Glasgow	(61)	513,000	547,000
Glendive	( )	Nil	Nil
Great Falls	(34)	356,913	424,711
Havre	( )	Nil	Nil
Helena	(4)	65,500	75,885
Kalispell	(1)	15,000	38,250
Lewistown	( )	Nil	Nil
Livingston	( )	No Reply	No Reply
Malta	( )	Nil	Nil
Miles City	( )	No Reply	No Reply
Missoula	(1)	10,000	387,900
Total	**(124)**	**$ 1,262,813**	**$ 1,898,826**
WYOMING			
Casper	(7)	94,000	349,251
Cheyenne	(9)	119,000	161,873
Cody	( )	Nil	Nil
Laramie	( )	No Reply	No Reply
Rawlins	( )	Nil	1,550
Riverton	( )	No Reply	No Reply
Rock Springs	(30)	310,000	320,000
Sheridan	(2)	21,500	40,951
Total	**(48)**	**$ 544,500**	**$ 873,625**
COLORADO			
Adams Co.	(26)	$ 328,000	$ 964,025
Alamosa	( )	Nil	700
Arapahoe Co.	(92)	1,851,000	2,490,050
Arvada	( )	No Reply	No Reply
Aspen	( )	Nil	900
Aurora	(87)	878,810	951,794
Boulder	(15)	257,140	1,042,181
Boulder Co.	(21)	227,900	287,730
Colrdo Sprngs	(60)	723,018	950,674
Cortez	( )	No Reply	No Reply
Denver	(243)	1,501,755	7,021,552
Durango	(2)	23,482	26,502
El Paso Co.	(60)	593,000	677,028
Englewood	(4)	25,000	521,358
Estes Park	(16)	126,726	150,726
Fort Collins	(12)	150,500	197,321
Fort Morgan	(3)	28,776	31,975
Golden	(29)	121,500	124,400
Grand Jnction	(2)	23,500	354,575
Greeley	(13)	167,366	237,204
Jefferson Co.	(96)	1,257,845	1,983,656
La Junta	( )	Nil	4,380
Lamar	(1)	10,500	76,500
Littleton	(4)	62,144	941,915
Longmont	(28)	348,704	412,008
Loveland	(21)	221,000	327,000
Monte Vista	(2)	12,500	15,250
Montrose	(4)	46,980	51,164
Pitkin Co.	( )	Nil	Nil
Pueblo	(32)	268,771	1,161,179
Pueblo Co.	(3)	14,500	14,500
Sterling	(3)	32,000	40,700
Trinidad	(3)	52,500	57,175
Walsenburg	( )	Nil	160
Westminster	(14)	123,753	169,332
Total	**(896)**	**$ 9,480,670**	**$ 21,285,614**

	# Res.	$ Value	Total $
UTAH			
American Frk	(2)	$ 18,000	$ 19,750
Bountiful*	(25)	*	621,869
Brigham City	(6)	72,600	93,050
Cedar City	( )	Nil	9,300
Clearfield	(2)	23,000	35,000
Davis Co.	(6)	107,167	116,497
Kaysville	(4)	29,800	31,300
Layton	(13)	178,000	188,250
Logan	(4)	40,760	47,460
Murray	(12)	126,500	608,300
Ogden	(5)	106,860	219,120
Orem	(2)	23,000	71,900
Price	( )	Nil	6,000
Provo	(11)	117,000	130,450
Salt Lake City	(134)	1,698,650	2,101,143
Salt Lake Co.	(163)	2,061,000	2,477,490
S. Salt Lk City	(6)	37,000	188,000
Spanish Fork	(1)	10,000	11,500
Tooele	( )	No Reply	No Reply
Utah Co.	(2)	26,740	119,690
Weber Co.*	(*)	*	219
Total	**(398)**	**$ 4,676,077**	**$ 7,096,288**
NEVADA			
Boulder City	(1)	$ 23,150	$ 34,129
Clark Co.	(1,176)	11,069,818	12,361,146
Elko	(2)	23,400	42,430
Las Vegas	(779)	8,333,624	8,976,213
N. Las Vegas	(87)	916,004	1,268,003
Reno	(33)	608,720	3,043,243
Sparks	(26)	239,000	398,464
Washoe Co.	(24)	379,496	860,028
Total	**(2,128)**	**$ 21,593,212**	**$ 26,983,656**
ARIZONA			
Buckeye	( )	Nil	$ 315
Casa Grande	(1)	$ 11,900	455,525
Chandler	(8)	65,620	65,620
Douglas	(1)	6,000	9,875
Flagstaff	(6)	39,750	86,822
Florence	(5)	34,150	34,150
Glendale	(21)	252,200	282,260
Maricopa Co.	(147)	1,522,013	1,899,681
Mesa*	(154)	*	3,112,525
Phoenix	(488)	3,264,651	17,676,045
Pima Co.	(128)	1,444,030	1,914,491
Prescott	(1)	6,500	944,057
Scottsdale	(133)	780,810	869,367
Tempe	(53)	563,000	2,903,290
Tucson	(116)	835,931	1,954,503
Wickenburg	( )	Nil	3,100
Winslow	( )	Nil	52,650
Yuma	(16)	111,500	215,420
Total	**(1,278)**	**$ 8,938,055**	**$ 32,482,531**
NEW MEXICO			
Alamogordo	( )	Nil	$ 5,904
Albuquerque	(304)	$ 3,377,212	9,226,034
Artesia	( )	No Reply	No Reply
Carlsbad	(7)	79,000	190,215
Clovis	(22)	206,609	267,529
Deming	( )	Nil	709,815
Farmington	(8)	30,000	68,940
Gallup	(2)	46,400	301,868
Hobbs	(15)	219,468	294,028
Las Cruces	(19)	101,500	406,119
Las Vegas	(2)	40,000	40,000
Lovington	(1)	11,000	61,000
Raton	(1)	10,000	10,050
Roswell	(22)	219,500	327,140
Santa Fe	(20)	192,300	361,500
Silver City	(5)	78,000	78,200
Truth or Consequences	(1)	6,000	6,000
Tucumcari	(2)	11,500	22,400
Tularosa	( )	No Reply	No Reply
Total	**(431)**	**$ 4,628,489**	**$ 12,376,742**
HAWAII			
Hawaii Co.	(26)	$ 434,679	$ 950,311
Honolulu	(327)	4,036,391	7,534,014
Maui Co.*	(29)	*	838,332
Total	**(382)**	**$ 4,471,070**	**$ 9,322,657**
GRAND TOTAL	**(25,872)**	**$274,685,504**	**$511,156,230**

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ARCHITECTURE — COMMUNICATOR OF THE GOS
may be a bit of a tongue-twister as a title, but it i
thought-provoking theme for the 24th National Chu
Architectural Conference in Seattle March 5 to 7.

Sessions will be held in the Olympic Hotel, sp
sored by the Church Architectural Guild of Ameri
and by the Department of Church Building and Arc
tecture, National Council of Churches of Christ in t
USA.

The West is particularly fortunate to be hosti
this meeting because the program seems to be an e
usually strong one destined to attract good attendan
A workshop session on Collaboration of Building Co
mittee and Architect, convened by the Rev. Edward
Frey alone should be "worth the price of admission

Westerners will play an important role in t
meetings, with Robert L. Durham, Seattle archite
serving as honorary general chairman, and other he
liners being Vernon Drake of Billings; Aaron Fre
Frederick Lockman, Oliver Olson, Paul Hayden K
Paul Thiry, William Trimble, Albert Bumgardner,
Seattle; Kenneth Richardson, Donald Edmundson, P
land; Gulver Heaton, Pasadena. The West might e
lay claim to Pietro Belluschi, MIT, Cambridge,
formerly of Portland, who will address the Tues
evening session on Special Problems in Church Desi

From other parts of the nation will come such l
clergical and architectural leaders as Dr. Martin
Marty, distinguished authority on church art; the R
Edward N. West, Canon Sacrist of the Cathed
Church of St. John the Divine in New York City; a
Charles J. Betts, Disciples of Christ Board of Arc
tects, Indianapolis, who is general chairman of the c
ference.

Panel discussions include Balanced Facilities
Worship and Learning; Contemporary Art and Symb
ism in Church Architecture; Selecting and Developi
the Site; Community Needs and the Church's Progra
The Master Plan—The First Unit and The Small Churc
Financing the Building Program.

There will be tours of churches in Seattle, Bellev
and Mercer Island, and three special workshop tou
as well as a post-conference tour of Portland church

The fifth annual Ecclesiastical Arts Exhibition h
been assembled from the works of talented designe
throughout the nation and awards will be made duri
the conference, as will awards in the architectur
competition which recognizes total design.

The first national conference on church archite
ture to be held in the Pacific Northwest deserves th
full support and attendance of western architects. W
join the Seattle Chapter of AIA in welcoming the Co
ference and all who will attend.

Architecture / West

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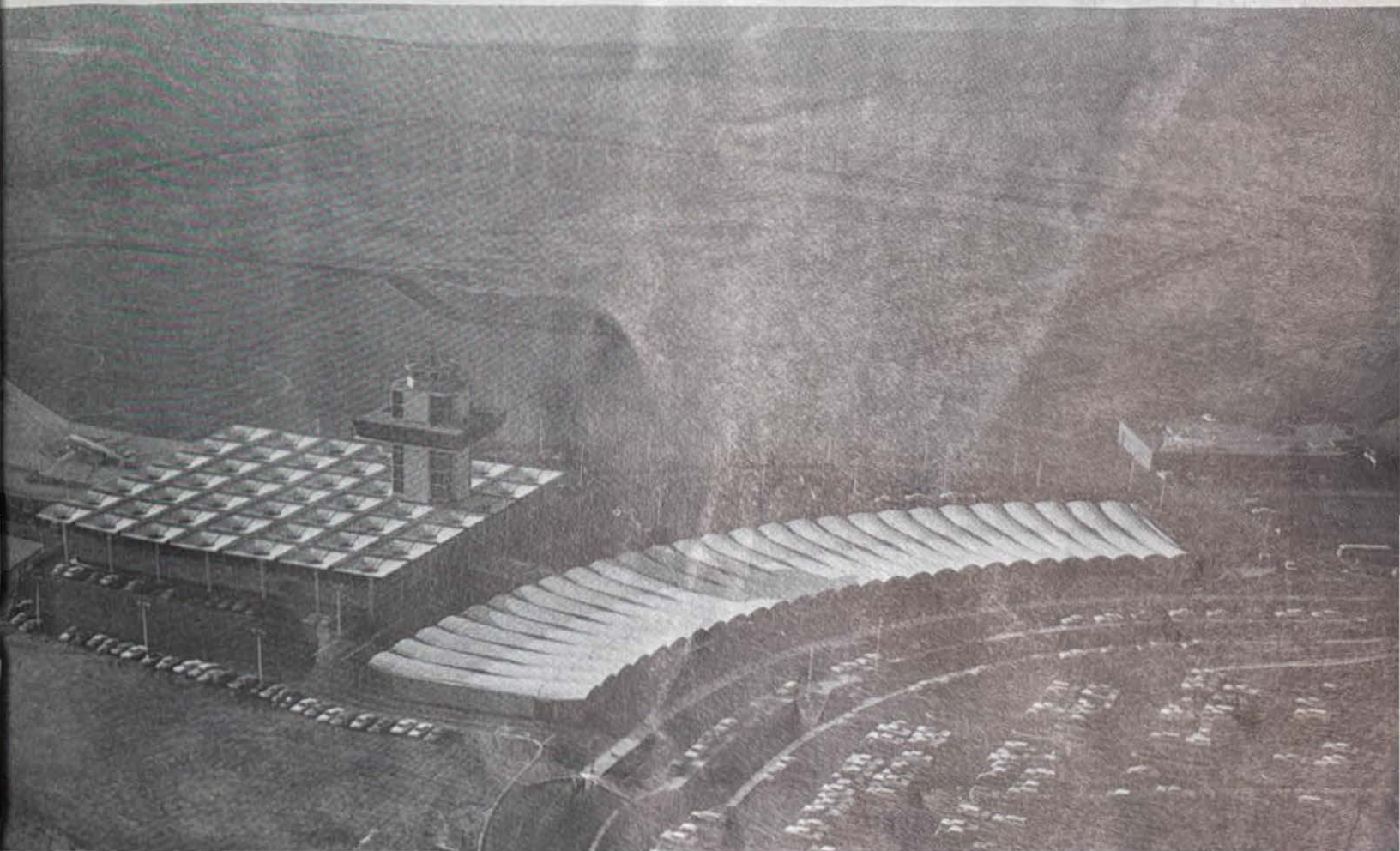
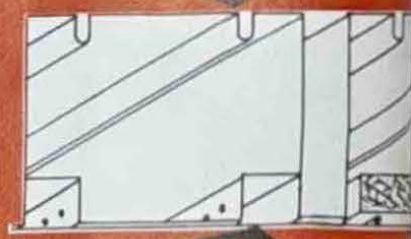
FORMERLY PACIFIC ARCHITECT & BUILDER ◆ MARCH 1963



the new Mahonaire concept*...

thin-line package incorporates air distribution, structural deck, lighting, utility raceways, and acoustical finished ceiling in as little as 6" in depth!



*Pats. applied for

ating and cooling have always before been handled
accessories which must be added to the
idamental building at the cost of extra space.
e MAHONAIRE air ceiling concept now
orporates this into the basic structure itself in little or
additional space and at substantial savings over
ıventional ductwork systems. Costing little more
ın the basic structural elements themselves,
AHONAIRE can be installed for heating when the
ilding is erected and can then be utilized at any
r time for air-conditioning.
In addition to the cost savings in air distribution
tem materials, the savings resulting from building
ght reduction are substantial.

R DISTRIBUTION Mahonaire ceilings
inate conventional ceiling diffusers and costly distribution
twork. High aspiration of diffused air avoids cascading of
vered cold air or stratification of delivered hot air.
nward air directional control reduces dust or smudge
aking of the ceiling.

RUCTURAL SUPPORT High strength-weight
o of Mahonaire deck allows economical design. Long
nability eliminates intermediate supports and provides
ellent surface for either support and bond of insulation and
fing or as a concrete form for roof construction.

CESSED LIGHTING Standard lighting fixtures
be installed continuously or intermittently between the
n webs. Versatility of the Mahonaire concept provides
ady solution of specific lighting and modular
out requirements.

ILITY RACEWAYS Cells can be used to carry
al lines, sprinkler systems and similar utilities.

UND CONTROL Economical sound absorbtion is
ieved by inserting sound-absorbing material in the cells of
perforated Cel-Beam members.

NISHED CEILING Flush surfaces or exposed
n effect can be used. The metal surfaces are virtually
structible and require no maintenance other than
mal periodic painting.

more information write for new catalog AC-63.

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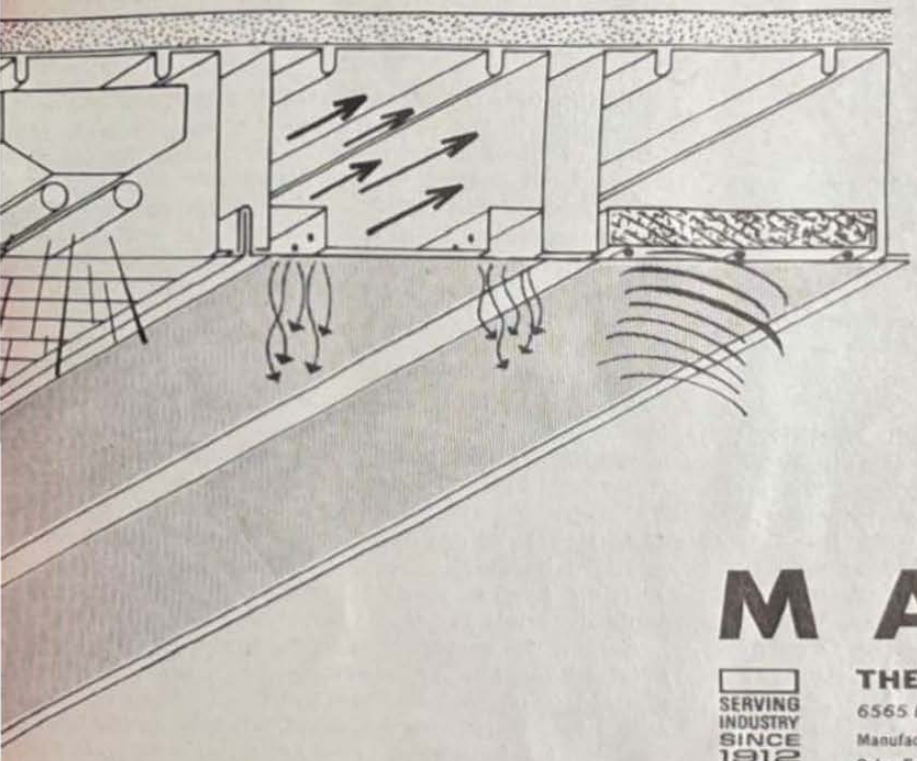

This office building incorporates the MAHONAIRE concept. Within the 7½" cells used for structural support were incorporated air distribution, troffer lighting, sprinkler system and acoustical treatment.

A one-story school building in Southern Texas provides year-round conditioned air using the MAHONAIRE ceiling concept. Cost savings over a conventional system were substantial.

ARCHITECT: WYATT C. HEDRICK, HOUSTON, TEXAS

The MAHONAIRE concept in this engineering company office furnishes draft-free heated or cooled air and ventilation and provides recessed lighting in the attractive flush ceiling.

MAHON

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THE BUILDING MONTH

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Don Normark

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Then for a couple of pages we jump all around the West to the oustanding features of several of our better airports, and finally for two more pages some Methods and Materials and Products in Action ideas that might serve well in many types of installations other than the airports in which they were built.

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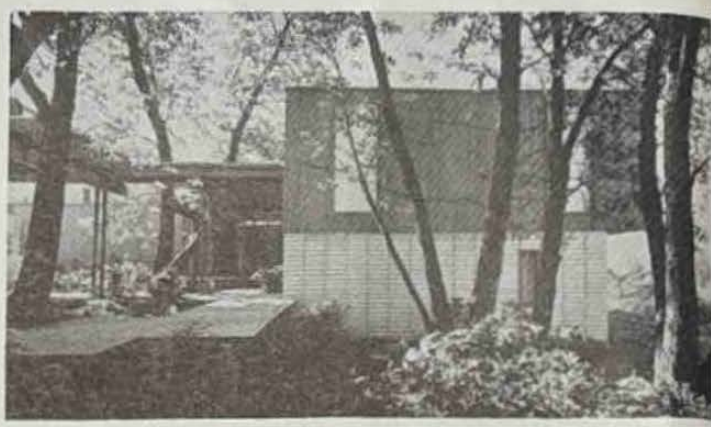

Don Normark photo

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THE BUILDING MONTH

Highlights & Sidelights

THE QUEST FOR QUALITY—Theme of the professional program for the national AIA convention at the Americana Hotel, Miami Beach, May 5-9, will explore the concept of architectural quality, and re-examine the basic doctrine in architecture. Speakers and panelists will discuss "What is Quality"—the criteria for defining quality and the reasons why these are ever-changing; "What and Who Influences Quality"—the role of government, education, professional press, public taste and other internal and external influences; "The Attainment of Quality"—discussion of subjects such as collaborative vs. individual approach; native ability vs. acquired knowledge. Burnham Kelly, Dean of the College of Architecture at Cornell University, will serve as moderator of the entire program.

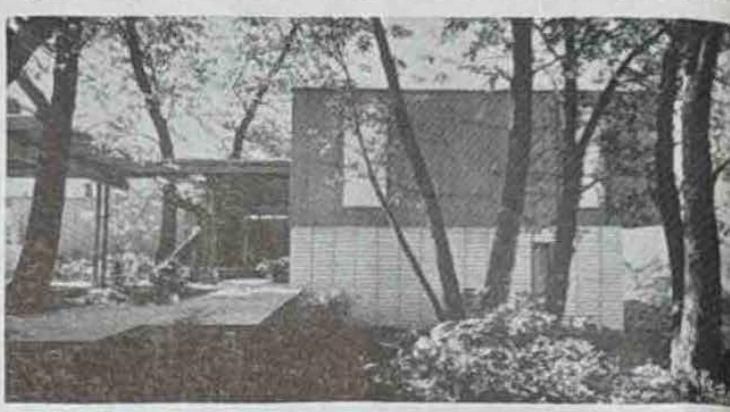
AN ALL-TIME HIGH—Building activity in the San Francisco Bay area totaled $1.1 billion for 1962, a 15% increase over the previous year. Santa Clara County led the nine-county area with a valuation of permits issued at $335.7 million. Following, in millions, were: Alameda County, $216; San Francisco County, $156.2; San Mateo County, $133.7; Contra Costa County, $126.6; Marin County, $69.4; Sonoma County, $40.7; Solano County, $23.9, and Napa County, $14.8.

A MAJOR CONTRIBUTION—Members of the Colorado Chapter, AIA, have volunteered their services to work out the design phase of a master plan for development of downtown Denver. A task force of architects have started work and will have preliminary drawings ready to submit by April 1 to the Downtown Denver Master Plan committee. Five architects will be occupied full time for five months on the design phase and 100 others will contribute ideas and suggestions. DDMPC officials value the architects' contribution at more than $30,000. Proposals will be made on height, bulk and coverage of buildings in the downtown area; relationship of various complexes and buildings; pedestrian circulation; landscaping and open space. Rodney Davis, president of the Colorado Chapter, said "We are happy to participate in this program. We feel this is the greatest challenge ever put to architects in this area."

SHORTAGE OF HOUSES—Alaska, the nation's largest state, has one of the country's most acute housing shortages, a survey made by one of New York's leading mortgage marketing organizations, reveals. The report indicated that Alaskan home buyers are willing to pay high prices for homes, simply because of the tremendous shortage caused by an increase of nearly 300 per cent in population between 1950 and 1963.

CONSULTING THE CALENDAR — Sixth Northwest Structural Steel Engineers Conference, March 29-30, Saharan Hotel, Spokane, Wash. . . . Symposium on Unique Problems in Concrete sponsored jointly by American Society for Testing and Materials, the Department of Mechanical and Industrial Engineering of Oregon State University, and the Oregon Chapter of the American Concrete Institute, March 21-22, Withycombe Hall, Oregon State University, Corvallis, Oregon. . . . 25th annual convention, National Association of Architectural Metal Manufacturers, April 21-27, Hotel Del Coronado, Coronado, California. . . . Building Research Institute spring conferences, Shoreham Hotel, Washington, D.C., April 23-25.

SEATTLE'S HOME OF THE YEAR—Designed to capitalize on view and orientation for sun, a Mercer Island, Washington home has won the ninth annual Seattle Chapter, AIA-Seattle Times sponsored Home of the Year Award for architects William C. Ridenour and Donald C. Cochran, Bellevue. The Floyd W. Olson home was selected from the twelve entries comprising the Home of the Month chosen each month from homes designed by a chapter member and selected for participation by a chapter committee. A three-man professional jury cited the Olson home for its skillful placement



Don Normark photo

on the lot, the exceptional quality of the entrance garden, careful preservation of the existing trees and the use of them to enhance the house, the capitalization on view and orientation for sun, and the skillful planning and arrangement of interior spaces. Builder-contractor was James H. Moore of Redmond. A bronze sculpture, produced by the lost-wax process, by artist-sculptor James FitzGerald, who was commissioned by the newspaper to create the architect's trophy, was presented to the winning firm.

PROFESSIONAL MEMBERSHIPS INVITED — For the first time in the 42-year history of the American Institute of Steel Construction, Professional Memberships have been opened to those practicing and teaching in the fields of architecture and engineering. All membership applications should be sent in writing to the Regional Engineering Advisory Committee, American Institute of Steel Construction, 101 Park Avenue, New York 17.

PENNSYLVANIA SOCIETY HONORS WORLD'S FAIR—The IBM building at Seattle's World Fair has won an honor award for its Pennsylvania Architect, Charles E. Broudy, Philadelphia, in the 1962 Honor Program sponsored by the Pennsylvania Society of Architects.

MILLIONS FOR MERCY—Around the West, new hospitals, laboratories, research facilities, wing additions, nursing homes, medical centers, are adding to the building totals for this year.

Among the largest projects is the recently completed $11.6 million Los Angeles County Harbor General Hospital in Torrance, California, an eight-story building with a two-story wing adjacent, housing one of the largest hospital laboratory sections in the United States.

Portland—The Veterans Administration has included

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COVER: Oakland International Airport, Oakland, Calif./Warnecke & Warnecke, architects. Karl Riek photo. See page 13.

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Business data on page 30

ABOUT THIS ISSUE: A/W has a characteristic that is both good and bad. It is small, which makes it not so formidable to read. But the sparsity of pages sometimes limits the editorial efforts in reporting a subject in depth. We have been doing this in recent issues, tackling a subject or a building type as the theme for an issue and then touching lightly upon many aspects of the subject "in depth." That's what we have done in this issue about buildings at airports, where so many fine strides have been taken recently.

Starting on the cover and on page 13-15 we have touched lightly, but we hope perceptively, on the Oakland International Airport, the first unit of which has just been completed. We're a little critical of some of its minor features, but it is one of the best in the West today.

For smaller airport installations, we've devoted page 17 to an entirely new concept in control tower construction which saves money and makes a lot of sense from the standpoint of personnel convenience.

And page 16 pictures a jewel of an airport adjunct, Seattle's Hilton Inn, a luxurious hostelry that serves community as well as airport needs and does it in a style uncommon to the noisy "barracks" that exist near so many major airfields.

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$700,000 in its budget for planning a 505-bed addition to the present hospital, with a complete expansion program estimated at $15.8 million.

Billings—Valley Convalescent hospital has just negotiated contracts totaling $1.2 million for construction of a 200-bed hospital.

Reno—A $1.5 million contract is scheduled to be awarded for a four-story addition and 68-bed nursing home at the Washoe Memorial Center.

San Francisco—The City Planning Commission has approved a $33 million master plan for a new Presbyterian Medical Center. In the Bay Area, the U.S. Department of Health, Education and Welfare has granted $1.7 million for medical research facilities—$700,000 to the University of California, Berkeley, for laboratories in the new biochemistry building; $555,500 to San Francisco General hospital for animal research facility; $230,000 to the UC Medical School new health sciences research building; $119,500 for St. Mary's hospital clinical research laboratories; $49,280 to the Kaiser Foundation Hospital toward a new medical research building.

Denver—$3.6 million is advance estimated cost of the new medical-surgical building at Colorado State hospital, Pueblo.

Albuquerque—Along with 60 other American cities, Albuquerque has entered a bid for consideration as site of the new Shrine hospital and research center for children suffering from burns. The Shrine plans to construct three such hospitals at an estimated cost of $10 million.

Boise—Idaho State Department of Public Works has approved construction of a hospital at Nampa State School to cost in excess of $1 million.

TEMPLE OF UNDERSTANDING—An international building has been proposed for a 40-acre site on the Potomac in Washington, D.C., to further, through education the major religions of the world, "man's awareness of his essential brotherhood". Proposed building will contain a library as well as separate chapels for the Buddhist, Christian, Confucian, Hindu, Islamic and Judaic religions. Project is sponsored by an international group which has already started a world-wide fund-raising campaign. Design committee will consist of architects from all parts of the world, headed by Lathrop Douglas, FAIA, who created preliminary design. An international committee will be set up to prepare final plans for the structure.

TRANSIT ISSUE CHALLENGED—Engineering design work on San Francisco's rapid transit system has been virtually halted by a pending court suit challenging the validity of the $792 million transit bond issue recently approved by the voters. The suit may delay the project at least six months, with a conservative estimate being made of $2 million inflation costs each month to Bay Area taxpayers over the delay caused by the litigation. Parsons-Brinckerhoff-Tudor-Bechtel, engineering consulting firm, have halted work on all but two key phases of the project, but are carrying on design for two portions of the 75-mile rail network to be built within new automobile freeways in San Francisco and Oakland, and upon which work must be coordinated with the California Division of Highways. If not completed promptly, freeway rights-of-way may be lost and new transit routes will have to be found at an additional cost of more than $50 million. Bay Area Rapid Transit District president Adrien Falk has commended the engineering consultants for continuing essential engineering work at their own risk and expense.

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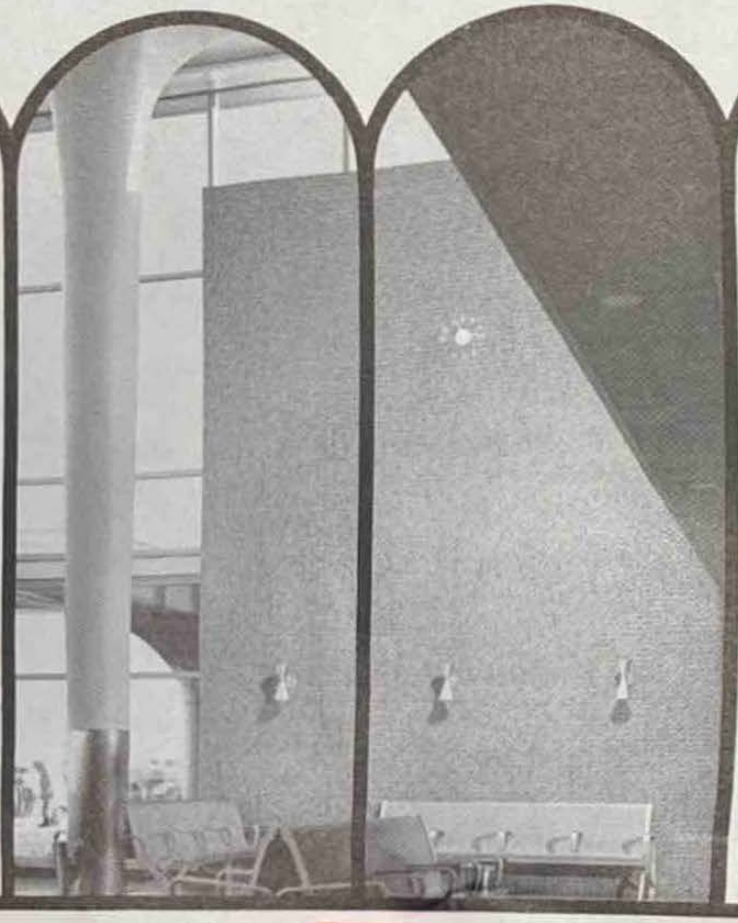

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AIA Honors Three West Coast Firms In National Honor Awards Program

Three West Coast architects were among those honored by the American Institute of Architects in selecting the 1963 Honor Awards, the nation's highest professional recognition for architectural merit. Thirteen buildings were named from a record 411 entries.

The five-man jury, which included Robert L. Durham, FAIA, Seattle, as chairman; and Ernest J. Kump, FAIA, Palo Alto, granted five First Honor Awards and eight Awards of Merit. Awards will be presented during the national AIA Convention May 5-9 in Miami, Florida.

First Honor Awards went to the firm of Anshen & Allen, San Francisco, for the International Building in that city, and to the Ralph M. Parsons Company, architects and engineers, Los Angeles, for the Dhahran International Air Terminal, Dhahran, Saudi Arabia. Marquis and Stoller, San Francisco, were named for an Award of Merit for the Green-Johnston residence in Mill Valley, California (featured in Architecture/West, May, 1962).

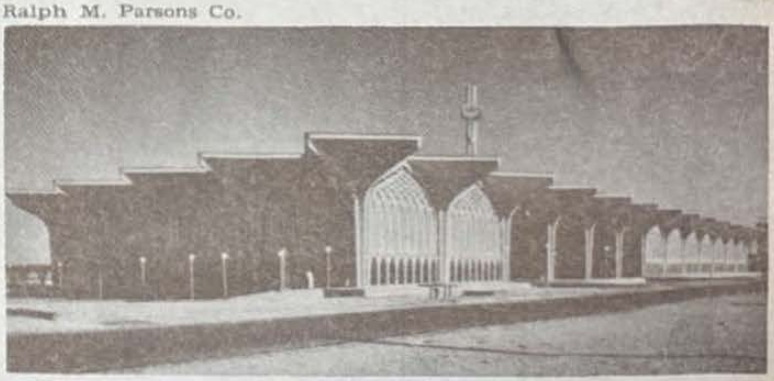
Among the winners was one other West Coast building, the General Community Hospital at Carmel, California, which won an Award of Merit for its New York architect, Edward Durell Stone. The hospital is owned by the Monterey Peninsula Community.

The jury said that it was "encouraged to note a trend away from stereotyped cliches based on imported eclecticism. There are many indications that the best American design is now characterized by a sense of appropriateness and creative individuality."

Ezra Stoller Associates

GREEN-JOHNSTON HOUSE, Mill Valley, California. Owners: Virginia Green and Leila Johnston. Architects: Marquis and Stoller, San Francisco. Landscape architects: Royston, Hanamoto, Mayes & Beck.

Ralph M. Parsons Co.



DHAHRAN INTERNATIONAL AIR TERMINAL, Dhahran, Saudi Arabia, built for the U.S. Corps of Engineers. Architects and Engineers: Ralph M. Parsons Co., Los Angeles. Consulting design architect: Minoru Yamasaki, FAIA, Detroit, Michigan.

Julius Shulman

INTERNATIONAL BUILDING (General Office Building), San Francisco. Owner, Natomas Company, San Francisco. Architects: Anshen & Allen, San Francisco. Landscape Architect: Royston, Hanamoto & Mayes, San Francisco.

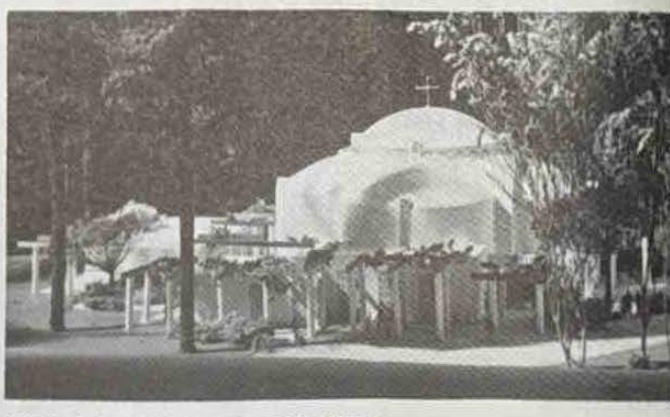
PROJECT PREVIEW

BIOCHEMISTRY BUILDING FOR BERKELEY CAMPUS

Seven-story structure for University of California will provide expande facilities for teaching and research on chemistry of living things an will enable Department of Biochemistry to increase enrollment 5 per cent. Building exterior will be of precast exposed aggregat panels with aluminum framed windows, sloping red tile roof. Architect Wurster, Bernardi and Emmons, San Francisco.

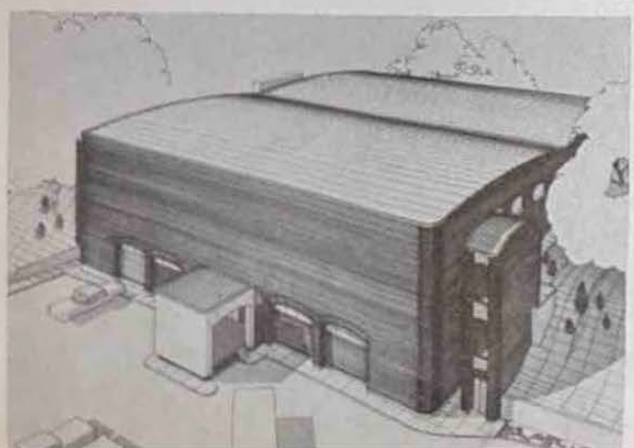
DELUXE 12 STORIES IN BOISE

Located just five blocks from Boise's business district, Imperial Plaza, a $1,650,000 12-level apartment building, will house 60 apartments, ranging from one-bedroom to penthouse. Each will have its own lanai or platform outside, and will be soundproof and fireproof. Lower floor will be reserved for apothecary, beauty salon and other services. Architects: Wayland, Cline & Smull, Boise.



GREEK ORTHODOX CHURCH, SAN MATEO

Located on a particularly beautiful site, covered with pines over 100' i height, the church is a contemporary expression of a classic Orthodox churc form. Dome in center is 40' in diameter, surrounded by four half-dome each 20'. The building, of masonry construction throughout, provides seat ing for 500 in the church; has, in addition, administrative offices and sma Sunday school. Architects: Reid and Tarics; designer: R. F. Olwell.



BOOKSTORE, WASHINGTON STATE UNIVERSITY

An addition to existing bookstore at Pullman, Wash., will meet the essential function of a bookstore: "that of providing to the students the broadest possible base of educational materials." 30,000 sq. ft. will be added to existing building allowing a supply department with administrative offices, book department, receiving and storage space. Architects: Trogdon-Smith.

Photo-Craft Co.-Hawaii

1

Hawaii Selects Nine Outstanding Buildings

Certificates of Merit for outstanding work in architectural design during 1962 were awarded to four firms and three individuals by the Hawaii Chapter, AIA, at the annual awards banquet. An all-architect panel selected three for Honor Awards, stressing that no one of the structures was implied to be better than another. Each was selected for excellence in design, aesthetics, function and economics of a given project.

The luxury co-op apartment, designed by Wimberly, Whisenand, Allison & Tong, embodies twelve complete homes in the 14-story building, each insuring privacy, luxury and a view. The Thomas Wells' office building faces on a garden court in the entry way, providing a welcome change of pace to an otherwise highly metropolitan office complex. The USS Arizona Memorial, designed by Alfred Preis, gives an overall effect of serenity, overtones of sadness having been deliberately omitted.

Robert Wenkam

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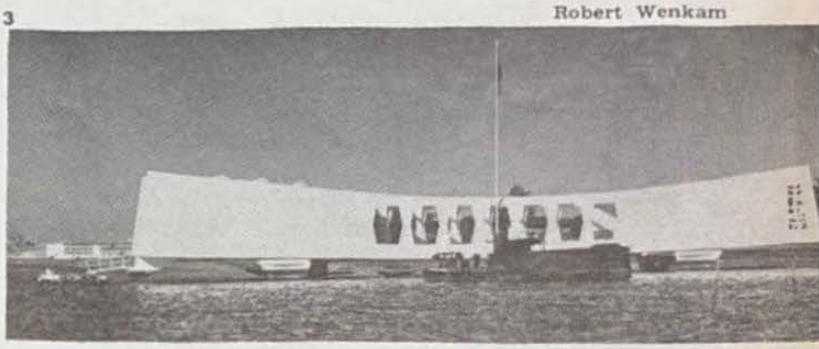
Robert Wenkam



Honor Awards

1. Luxury Co-op apartment building at 3019 Kalakaua Ave. Architects: Wimberly, Whisenand, Allison & Tong, and Howard L. Cook.

2. Office Building at 320 Ward. Architect: Thomas Wells.

3. USS Arizona Memorial at Pearl Harbor. Architect: Alfred Preis.

Honorable Mention

4. L. Harold Whitaker residence. Architect: Frank Slavsky. Designer: Harold Whitaker.

5. Denis Y. Wong residence. Architect: Frank Slavsky. Designer: Harold Whitaker.

6. Dr. and Mrs. James Harrison Noela Drive residence. Architect: Alfred Preis.

7. Pershing Lo residence: Architects: Johnson & Perkins.

8. Dole Playground. Architects: Belt, Lemmon & Lo.

9. Harris Memorial Methodist Church, Nuuanu Avenue. Architects: Wilson Associates.

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Camera Hawaii

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Camera Hawaii

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Robert Wenkam

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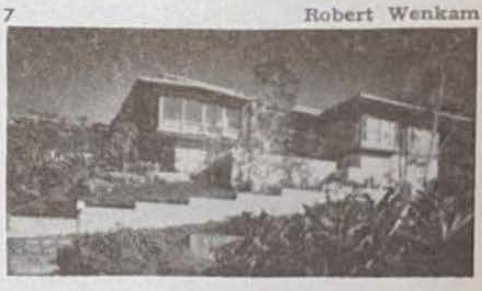
Robert Wenkam



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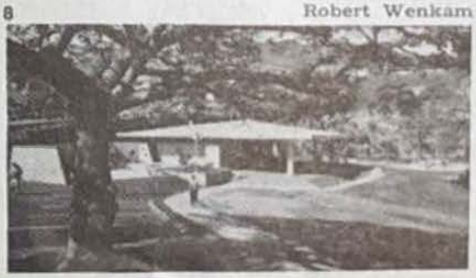
Robert Wenkam



9

Alex Williams

new offices

Richard A. McIntire has established new offices for the practice of architecture at 6858 East Edgemont Avenue, Scottsdale, Arizona.

Clifford Nakata, Don Higginbotham and Robert Muir are principals in the new firm of architects and planners with offices at 206 East Pike Avenue, Denver. Firm will be known as Higginbotham/Nakata & Muir.

D. Robert Thomas and Patrick J. Crowley, architect, have formed a partnership for the practice of architecture with offices at 703 Turquoise St., San Diego 9, California, under the name of Crowley and Thomas, Architect and Associate.

Kent J. Parrish has established an office in the Lexco Building, 750 East Lander, Pocatello. Parrish, a graduate of Idaho State College, also studied at the Universitaria Nacional de Mexico in Mexico City. He has been most recently in the office of architect Grant Brower.

Bodrell Joer'dan Smith, formerly with William Pereira & Associates, has opened an office for the practice of architecture at 8426 Sunset Blvd., Los Angeles.

Three Santa Fe architectural firms have formed a collaborative under the names of Architects Associated to provide a comprehensive development plan for the New Mexico State capital. The firms are John P. Conron-David deR. Lent; Robert Plettenberg and Philippe Register. Each firm will also continue to practice under its own name.

Herbert S. Spencer, AIA, has opened offices for the general practice of architecture in Suite 1005, Lloyd Building, Seattle. He has been associated with Ralf E. Decker architectural firm.

Edgar Wilson Smith, Portland architect, announces the opening of offices for the practice of architecture at 3325 N.W. Skyline Blvd. For the past seven years Mr. Smith has been associated with Skidmore, Owings & Merrill as a job captain.

James T. Ream, Denver, has established offices at 463 Logan Street. He has been associated with W. C. Muchow Associates, Denver architects, since 1959.

John S. Rowley has opened an office for the practice of architecture at 440 S. 225 East, Cedar City, Utah. He has been associated with the firm of Gardner and Rasmussen, architects, in Cedar City, for the past four years.

Formation of a new architectural office, Davis/Tilley, Architects, at 1057 Solano Avenue, Albany, California, has been announced by the principals of the firm, Alexander S. Davis and Norman D. Tilley. Both were formerly associated with Hammarberg and Herman, Architects, Inc., in El Cerrito.

honors and awards

Paul Bennett & Associates, Los Angeles firm, has won an Award of Merit presented by the editors of Administrative Management publication for their American Cement building in Los Angeles. The award was given for an office designed for less than 300 employees.

Glenn Stanton, FAIA, past president of the American Institute of Architects, has been elected a Fellow of the Royal Society of Arts of England. The society was formed by royal charter under Queen Victoria in 1847 for the encouragement of arts, manufactures and commerce.

Mr. Stanton has been additionally honored by his recent appointment to the national panel of the American Arbitration Association. Senior member of the Portland firm of Stanton, Boles, Maguire & Church, Mr. Stanton is also an Honorary Fellow, Royal Architectural Institute of Canada; Honorary Corresponding Member, Royal Institute of British Architects; Honorary Corresponding Member, Philippine Institute of Architects; Member, La Sociedad de Arquitectos Mexicanos.

Walter L. Creese, newly appointed dean of the University of Oregon School of Architecture and Allied Arts, has received an honorary membership in the American Institute of Architects. He was one of five men who received the honor this year for distinguished service to the profession.

William G. Teufel, landscape architect of Seattle, Washington, has won one of four national awards to be made by the American Association of Nurserymen west of the Mississippi. The award is for the landscaping of the main branch of the United States National Bank in Eugene, Oregon.

Manuel A. Fernandez, University New Mexico architectural student, h been named winner of the $5,000 Re nolds Aluminum prize. The 1963 awa was for his design of an "Aluminu Curvilinear Truss System," a vault space structure formed by simpl connected interlocking aluminu rings, a creative approach to the d sign of a lightweight space structur The prize, half of which goes to t University of New Mexico, the ba ance to be used by Mr. Fernandez f research and travel projects, will presented at the AIA convention Miami. The design was chosen fro those submitted by 30 architectur schools over the nation. Robert A shen, FAIA, San Francisco, was member of the three-man jury.

firm changes

Reid, Rockwell, Banwell & Tari San Francisco firm, have dissolv into two companies, Reid & Tari will remain at 1019 Market Stre Rockwell and Banwell have formed new firm at 38 Hotaling Place.

Kurt Gross Associates, San Jo architectural and planning consulta firm, announces the affiliation wi the firm of Alton J. Connor as associate architect.

Scott & Louie, architects and eng neers, announce that William Browning has become associated wi their firm located in the Dooly Buil ing, Salt Lake City.

Jerome K. Nagel and John Rogers, partners of Rogers-Nag Architects, Denver, announce th John C. Burrey has become a thi partner in their firm.

Cowan and Paddock, architect with offices in the Larson Buildin Yakima, announce the merger of the firm with Donald R. Hollingberr Moses Lake. The new firm will b known as Cowan-Paddock-Hollin berry Architects and will maintain o fices in both cities. Robert T. Ande son, Calvin F. Chin and George Scot are associated with the firm in th Yakima office.

Grant D. Caywood announces th association of Jack D. Nopp and th formation of a partnership for th practice of architecture under th firm name of Caywood and Nopp Ar chitects in the present offices at 143 Alhambra Boulevard, Sacramento.

appointments

Eighteen Pacific Northwest architects have received appointments to national committees of the American Institute of Architects, according to Robert L. Durham, Northwest regional director.

Eight appointments from Seattle: John M. Morse, chairman of the committee on theater architecture and a member of the nominating committee; Paul Thiry, chairman of committee on the national capitol and a member of the advisory council on the Pan-American Congress; Paul Hayden Kirk was named to the new three-man committee on esthetics; Robert Durham is a member of the committee on committees. Other appointments: Albert O. Bumgardner, residential architecture; Robert H. Dietz, academic training; Aaron D. Freed, professional insurance and bonds; Fred Bassetti, collaborating arts.

Other Northwest appointments: John E. McGuire, Tacoma, committee on state and chapter organizations; Kenneth W. Brooks and John W. McGough, Spokane; Kenneth E. Richardson and Keith R. Maguire, Portland; Donald H. Lutes, Springfield, Oregon; H. Robert Wilmsen, Eugene; Theodore J. Prichard, Moscow, Idaho; Glen E. Cline, Boise; Oswald Berg, Jr., Bozeman, Montana.

elections

The Nevada Association of Architects, AIA, was formed by the Las Vegas and Reno chapters, chartered by AIA national and accepted, effective November 27, 1962. Charter officers are Howard Brandis, Las Vegas, president; E. Keith Lockard, Reno, vice president; Jack Miller, Las Vegas, secretary, and George O'Brien, Reno, treasurer.

Rodney J. Grider, Boise, has been elected president of the Idaho Chapter, AIA, for 1963. Other officers are Harald E. Gerber, Twin Falls, vice president; Chester L. Shawver, Boise, secretary-treasurer; Nat J. Adams and H. Curtis Finch, Boise, directors.

Officers and directors of Southern California Chapter, AIA; Howard Morgridge, president; Arthur Froehlich, vice president; Cassatt D. Griffin, secretary; Walter Reichardt; treasurer; Thornton Abell, Frank Gruys, Arthur Evans, Edward H. Fickett, Harold Levitoff, William A. Lockett and Henry Silvestri, directors.

Newly formed Oregon Council of Architects, comprised of the Oregon, Southwest Oregon and Salem chapters of the AIA, has elected officers for 1963. Robert B. Martin, Portland, has been named president; DeNorval Unthank, Eugene, vice president; Saul Zaik, Portland, secretary-treasurer. Directors are Joseph Rudd and Keith Maguire, Portland; King Martin, Eugene, R. Eugene Ellis, Corvallis; Louis Schmerber and John Groom, Salem.

address changes

Wolff & Zimmer to 2386 Northwest Hoyt St., Portland.

Lescher & Mahoney, Ltd., architects and engineers, to 407 West Osborn, Phoenix.

Ralph Mitchell Crosby to 945 South Western Avenue, Los Angeles.

Frank L. McFarland to 808 34th Street, Ogden, Utah, from Cody, Wyo.

William C. Howland to 633 Lido Park Drive, Newport Beach, from Santa Barbara.

Moring & Billing Associates to 1830 South Mooney Boulevard, Visalia.

Donald F. Leach to 311 Salinas Street, Salinas, from San Francisco.

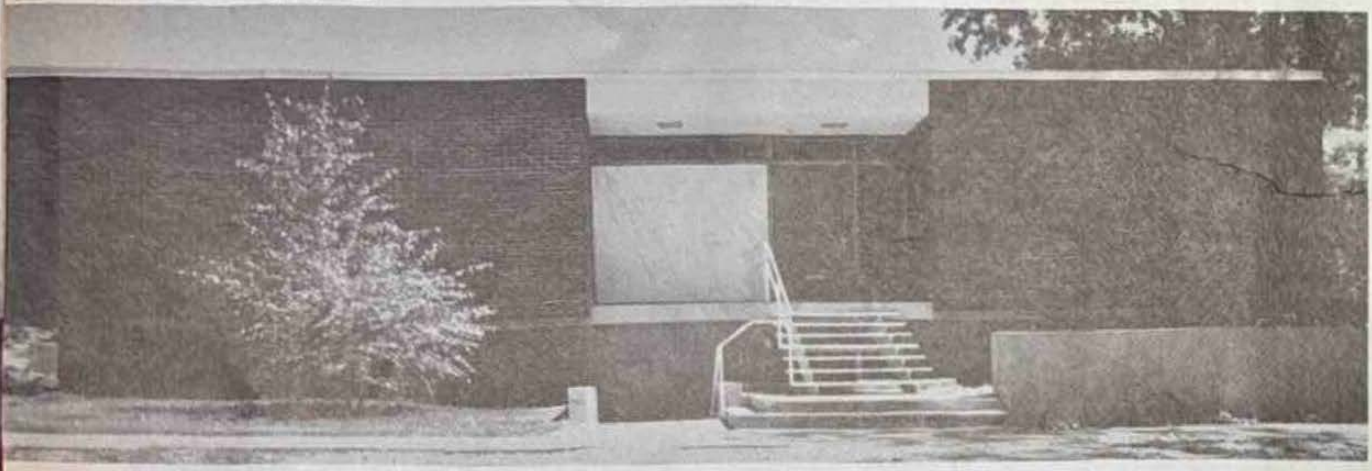
Johnston & Associates to 400 South 8th St., Payette, Idaho.

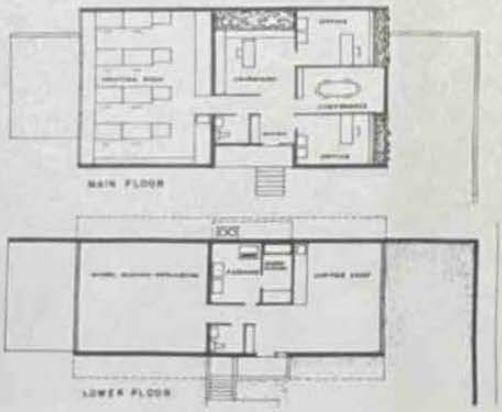
Tician Papachristou & Associates, architects and planners, to 650 17th St., Denver, from Boulder, Colorado.

Where architects hang their hats . . .

SMITH & NEEDHAM
Salt Lake City, Utah

Rondal Partridge photos

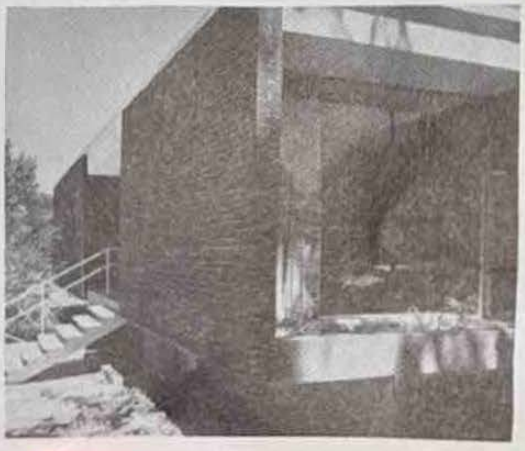




STRONG LINES of face brick and reinforced concrete, relieved by open steps, an entry panel of white onyx marble and a walnut slab door, give these architectural offices a trademark of substance and strength and integrity.

The materials, in addition to providing permanence, have a function in this Utah area of cold winters and blistering summers—the below-grade coffee room, model making and photographic darkrooms are inviting retreats on summer days. The upper area, with much glass wall space, is thoroughly air conditioned.

An interesting feature is the setback in window lines which permits a protective roof overhang and concrete planter boxes at the base—particularly important on one wall of the building which is on the property line and thus needs the outlook onto a planter area.



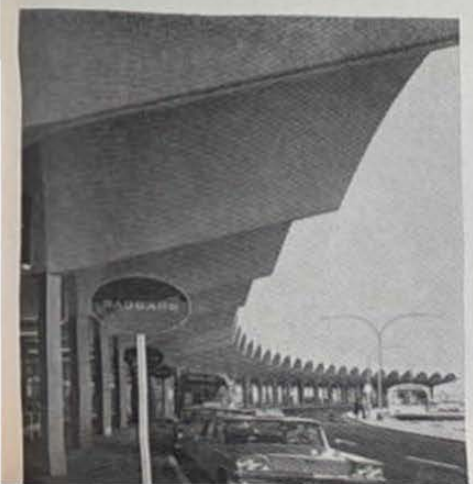
Conoids and Paraboloids at Oakland

Airport Buildings
— the Complex

THE PROSPECT OF PLANNING AN AIR TERMINAL COMPLEX must be a frightening thing. Problems challenge man's ingenuity to the last degree. Seemingly limitless space must be enclosed to encompass — separately yet contiguously — a variety of functions wherein hordes of hurrying people can be directed, served with information and ticketing and luggage facilities, sheltered in comfort, sometimes fed, guided through processes that often are bewildering, and all with speed and precision.

The structure or structures must extend horizontally for thousands of feet, yet there must be a tower unit that could easily seem incongruous; in addition to public service and comfortable waiting areas there must be restaurants and shops, mundane luggage facilities, offices of many sorts and provision for the complex equipment that controls the arrival and departure of planes. The building must be so arranged that vehicular approaches and parking facilities can handle literally thousands of private autos, taxis and busses per hour, with the acres of parking convenient to the point of entry to the building.

All of this somehow to appear striking and stimulating and pleasing and sleek as the jet planes that glide to the loading ramps. — The Editors.



IF AIRPORTS ARE MADE TO BE SEEN FROM THE AIR then surely the new Metropolitan Oakland International Airport will rank among the finest in the world. The approaches over the sparkling waters and picturesque Bay Area hills can leave nothing to be desired. The complex

Karl H. Riek photos

of airport buildings will inspire feelings of satisfaction and approval as the interesting patterns of hyperbolic paraboloids, the conoidal roof lines, the sweeping curve of the ticketing building, and the beckoning fingers of the loading ramps come into view.

The wide approach and exit streets and the impressively large and closely convenient parking areas will bespeak efficiency.

Or if airport structures are made to be viewed from the ground by the passing public or by passengers approaching in automobiles and busses, then Oakland will rank among the most stimulating, the most pleasingly effective, with its low, sleek lines made interesting by the thin shell concrete roof shapes, and by the single slender tower that sweeps upward to house a view restaurant at its midpoint and the control cab at its peak.

Unlike so many of its contemporaries or those of older vintage, the Oakland complex is not massive and therefore it seems streamlined for the jet age, and it benefits by the comparison.

The Oakland International Airport is no small establishment. It presently embraces 600 acres of man-made fill dredged up from the bottom of San Francisco Bay. Eventually it will be expanded to 900 acres. The terminal buildings, now totaling 130,000 sq. ft. also are designed for expansion, and the total complex is expected to care for four million passengers and 73,000 scheduled departures annually by 1985.

Five main buildings, constructed at a cost of $5.2 million, are the first phase of the program. The design of the entire terminal is basically a one-level scheme which allows baggage and passenger traffic to move in and out at ground level.

The ticketing building, a one-story crescent shaped structure of glass and concrete, with a vaulted precast shell concrete roof, serves as a passenger entrance.

METROPOLITAN INTERNATIONAL AIRPORT
Oakland, California

Warnecke and Warnecke
Architects

Isador Thomson
Hamilton & Williges
Structural Engineers

Clyde E. Bentley
Mechanical & Electrical Engineer

Utah Construction & Mining Co.
General Contractor

AIRPORT BUILDING / the Complex at Oakland

The curving facade on the main entrance creates a changing perspective, drastically foreshortens the view so as to break down the scale of the building, saving it from an overpowering visual effect. Signs, employing excellent typography, are well executed. There is a floor-to-ceiling glass facade with the roof cantilevered outward to provide weather protection clear into the street over unloading passengers. Contained in the 43,880 sq. ft. of space are the airline ticket check-in and baggage check-out desks. A merry-go-round baggage system allows passenger to stand in one place and remove his baggage as it passes.

A square, two-story building, the terminal has a shell roof of hyperbolic paraboloids. Roofs for both these buildings are thin shell reinforced concrete precast on site, each section weighing approximately 37 tons, with a total of 48 panels used for the two buildings. Each section is 72' long x 20' wide. Parabolic roof and ceiling patterns in themselves are "busy", and the functions of an airport complex are still more unalterably "busy", from the hurrying people who populate the place for short moments in time, through the hundreds of directional signs to the ticket and luggage counters, the shops and restaurants and restrooms and telephone banks and car rental outposts. In this busy atmosphere, there are bits of detailing that are a trifle too insistent for attention; they seem to "get in the way" of these smoothly flowing repetitive shapes of the basic structure.

The terminal building has a spacious passenger waiting area with adjoining coffee shop, bar and other shop facilities. First floor walls are concrete block and those of the second floor are floor-to-ceiling glass. A large dining room, observation gallery and offices are on the second floor. Total area of the building is 76,473 sq. ft.

Rising from the core of the terminal building, an eleven-story control tower has a spectacular cantilevered cocktail lounge at the eighth floor, and with a marvelous 360 degree view of the Bay area. Operation offices for the Federal Aviation Agency occupy the other floors.

Leading from the terminal building to the plane gates is a long one-story building of concrete and glass. Ten gate positions lead from this finger building. Ultimate expansion is planned for four additional finger buildings and a total of 40 gates. Airline operation offices are also in this building.

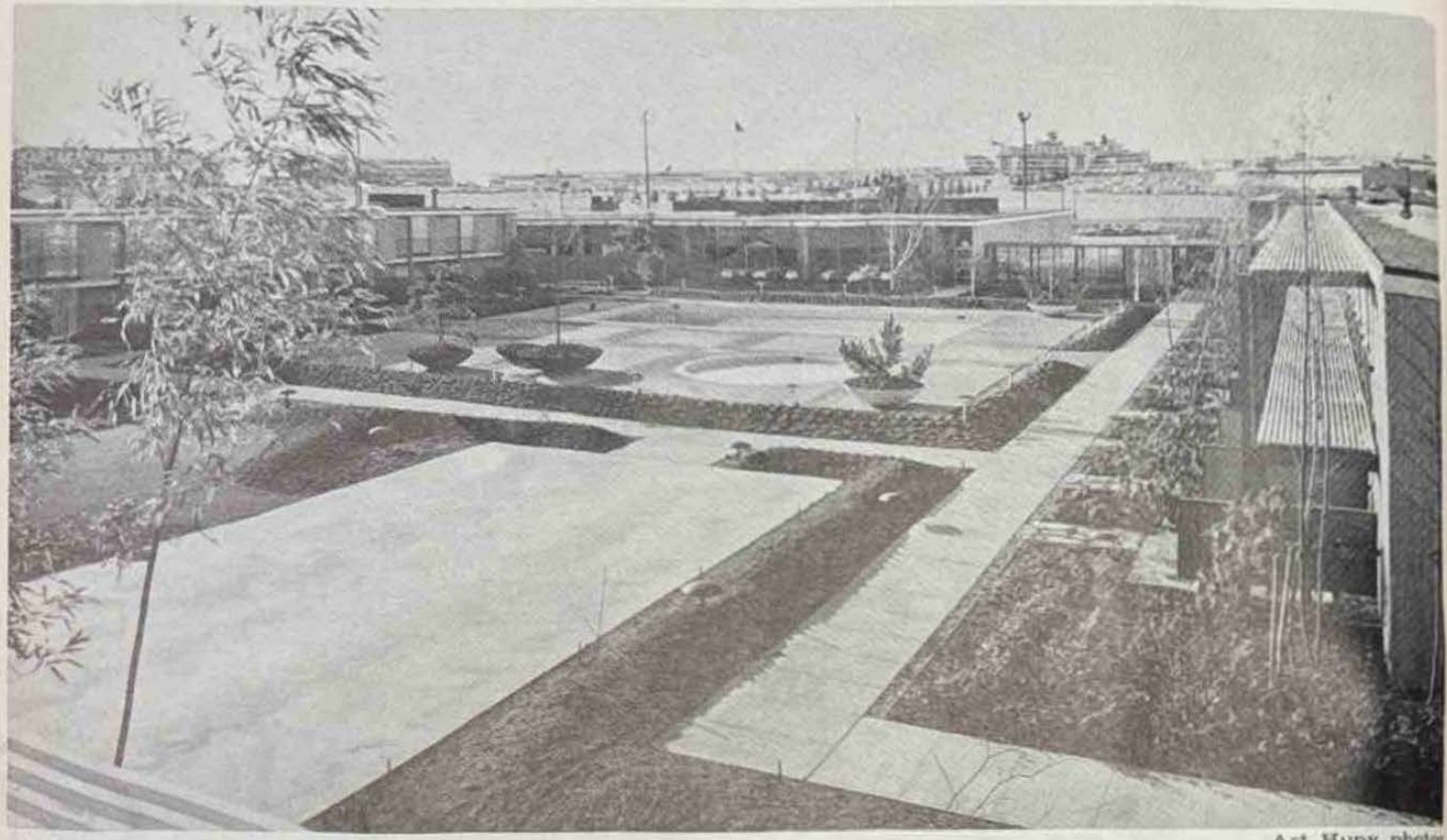
A central mechanical building is a one-story rectangular structure, of 11,920 sq. ft., located adjacent to the main buildings.

All in all the complex serves its function—getting people to the planes smoothly and efficiently and with a sense of well-being—better than most terminals. Architecturally it reads extremely well from the distance and stands close scrutiny with only minor criticism—a truly stimulating experience in scaling a massive function down to human, understandable levels.

In the main waiting room, the lighting pattern confuses the structural clarity. Placement of the fixtures in thin shell units, always difficult, seems to overwhelm paraboloids which form the space.

This Oakland complex is a bi-nuclear scheme with the waiting room in the square building under the paraboloids, and the ticket-luggage section in the curving, vaulted section, all connected by a ramp, in direct variance to many of the large terminals wherein everything is placed in one large building to effect a strong, easily comprehended architectural symbol for the community.

This bi-nuclear connection leading from the ticketing building to the terminal building curves and ramps down. Large skylights and strong lighting patterns tend to confuse the sense of space.



Art Hupy photos

Hilton Creates an Airport Oasis

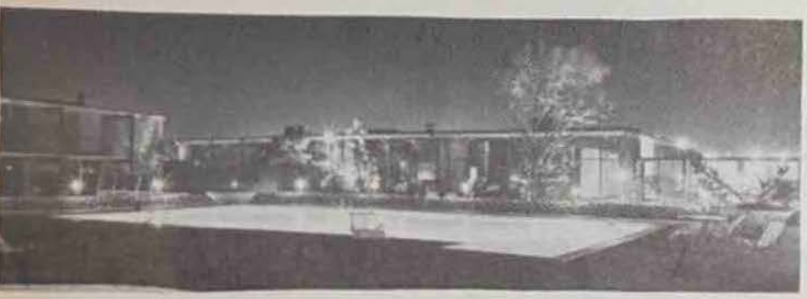
SET SQUARELY in the midst of the hub-bub of jet airline traffic, the rumble of truck and trailer rigs from the nearby highway, the flux of travel by car and plane, the Hilton Inn, by contrast, appears an oasis from the busy life surrounding its 10 1/2 acre site. Directly opposite is the bustling Seattle-Tacoma International Airport where activities are on a 24-hour schedule.

The Inn (four two-story guest buildings and a one-story central administration building) surrounds a pleasant landscaped garden court, complete with swimming pool large enough for competition, and a children's wading pool. Of the 150 guest rooms, 93 face the central court, with all ground floor rooms opening to private patios. South and west rooms are sun-shaded by a projecting wood screen. Each of the guest buildings are inter-connected with covered and enclosed walkways.

The dining rooms, cocktail lounge and coffee shop all look into the interior court. At night, poolside lights turn the terrace into a sparkling park-like setting.

Parking areas have been distributed so as not to impinge upon garden areas, yet provide easy access to guest rooms and the central building. A putting green and two shuffleboard areas add to the activity center.

The total effect: a visually quiet, pleasantly planned place in which the weary traveler may relax, or refresh himself before continuing his journey.



HILTON INN
Seattle, Washington

Skidmore, Owings & Merrill
Architects

John H. Sellen Construction Co.
General Contractor

William Teufel
Landscape Architect

For the small airfield...

A New Concept in Control Tower Planning

CONTROL TOWER
Boeing Field, Seattle

Bassetti & Morse
Architects

T. W. Traverso Construction Co.
General Contractor

Fred Bassetti photos

THE CONTROL TOWER for an airport does not seem to be a complicated project—there must be provision for only three functions: offices, equipment center and the actual observation level. Yet most such structures as built in the past have not been very satisfactory.

The observation "cab" must be at a level many stories high in the air. As a result the tendency has been to design a square building of small dimension comprised principally of elevator and stairwells with an office or two on each of the six or seven floors, and with the top floor having a deck all round for observation. This is inconvenient for the people using the many floors and office space is costly because of the necessity for building around the floor openings.

The new tower at Boeing Field International Airport in Seattle is a revolutionary design that eliminates these objections. All offices that do not need tower visibility are housed at ground level. From this one story structure rises an H-shaped pedestal housing nothing but an elevator, utility ducts and an open emergency stairway.

Atop the pedestal is a one-story rectangle for operating equipment and some offices. The observation cab is built directly atop this building. The result has been a lower first cost, lesser operating costs (such as heating) and greater personnel satisfaction ("lonesome George" is no longer stranded by himself on the fifth floor).

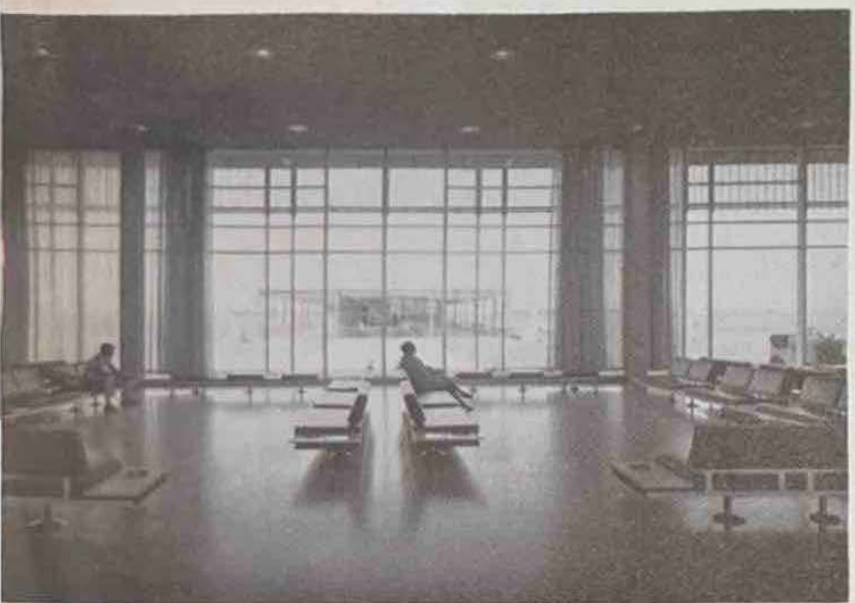
SKY HARBOR AIRPORT, PHOENIX—Beinlich photo

Airport Buildings . . .

Impressions . . . Seven of the West's Newest Terminals

• PHOENIX — The Sky Harbor Municipal Airport has been planned so that each of the buildings—ticket, main lobby or loading pier—can be expanded independently to meet future needs. The entire complex has open patios, reflecting pools, compatible with Arizona climate. All of the south elevation is of grey heat absorbing glass panes, each separated by 12" wide stained glass vertical panels. A bridge connects operations building and the main lobby with a roof observation deck over the ten loading gates. The terminal has been built at a cost of $2.7 million, with second stage planned to double present size of new terminal at an additional cost of about $10 million. Associated Architects: Weaver & Drover and Lescher & Mahoney, Ltd., Phoenix. Structural Engineer: Walter E. Riley.

FRESNO AIR TERMINAL—Morley Baer photo

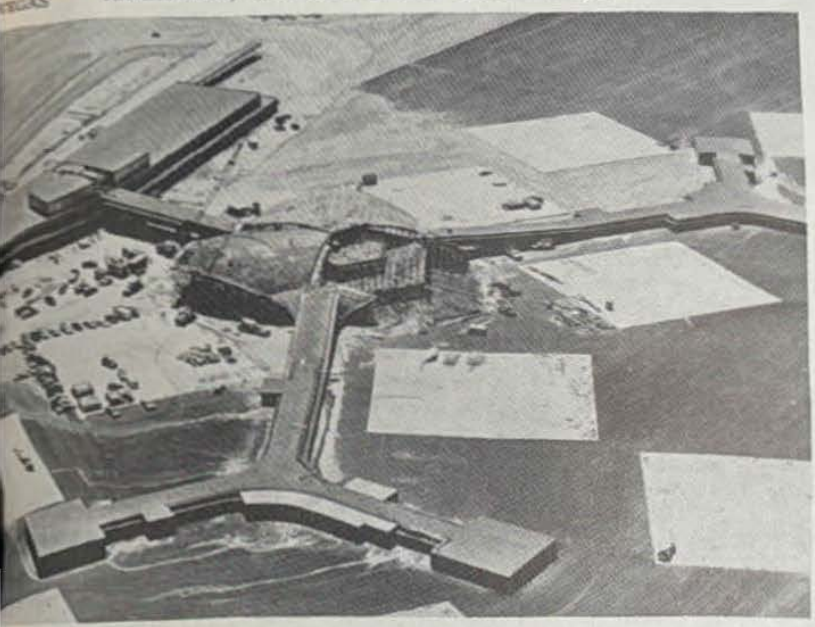


• BUTTE — The Silver Bow County Airport terminal was built at total cost of $304,800. A glu-laminated structure, exposed where possible, the building is a network of native materials—stone, wood, aluminum and copper. Housed in the 17,100 sq. ft. are FAA offices, airline offices, waiting lobby, coffee shop, bar, two dining areas. Architect: Norman Hamill & Associates, Butte.

• FRESNO — Greens and blues, deliberately chosen to offset Fresno temperatures, dominate the new municipal terminal. The project encompasses five separate buildings — terminal, concourse, government agency, maintenance utility and fire station. Truck and flight service vehicular traffic is separated from passenger areas by an escalator and tunnel, used to connect terminal building to concourse building. Total cost of the entire complex was $3.5 million. The location of the airport, mid-way between San Francisco and Los Angeles, has created a general aviation center for the surrounding six counties in the San Joaquin valley. Architect: Allen Y. Lew, Fresno.

• LAS VEGAS — Three huge concrete shells form waiting building at McCarran Field. Designed for the convenience of the jet-age traveler, the terminal utilizes two-level planning to separate passengers from airport ground operations. All loading positions are able to accommodate the largest jet airliner. The terminal, just being completed at a cost of $4.5 million, aims at providing as efficient service to the passenger on the ground as he receives in the air. Architect-Engineers: Welton Becket & Associates, Los Angeles, in association with John Replogle, Las Vegas.

• Los Angeles — The first airport designed completely from the ground up for jet aircraft, the Los Angeles International Airport utilizes a two-level concept to separate people from the planes, to solve the bottlenecks in aircraft movement and handling, and to give passengers a minimum amount of travel from their cars to boarding sites. The $100 million terminal complex is sited on a 3000-acre layout, much of it planned for future expansion. Six ticketing buildings surround a 5000-car parking area, all connected by tunnels with six oval-shaped satellite structures located on airfield level. Unique eight-unit "star" cluster luminaires, 480 in all, will make airport



parking area world's brightest. In center of complex is Theme Structure building—a sky-high restaurant and observation deck suspended 70' above ground between two 135' high parabolic arches. Architect-Engineers in joint venture: Welton Becket & Associates; Charles Luckman Associates; Paul R. Williams and Associates, Los Angeles.

• Seattle — Plans are under way by Young, Richardson & Carleton, Seattle architects, for additions to present restaurant facilities, coffee shop and cocktail lounge; some alterations in the terminal building at Seattle-Tacoma International Airport at an estimated cost of $1 million. A long-range plan for improvements at the airport, at an ultimate cost of $20 million, has been approved by the Port of Seattle Commission. A general plan, covering needs until 1985, has been submitted by Leigh Fisher Associates, San Francisco consulting firm. Major projects outlined include eventual

BUTTE—Ingvard Eide photo

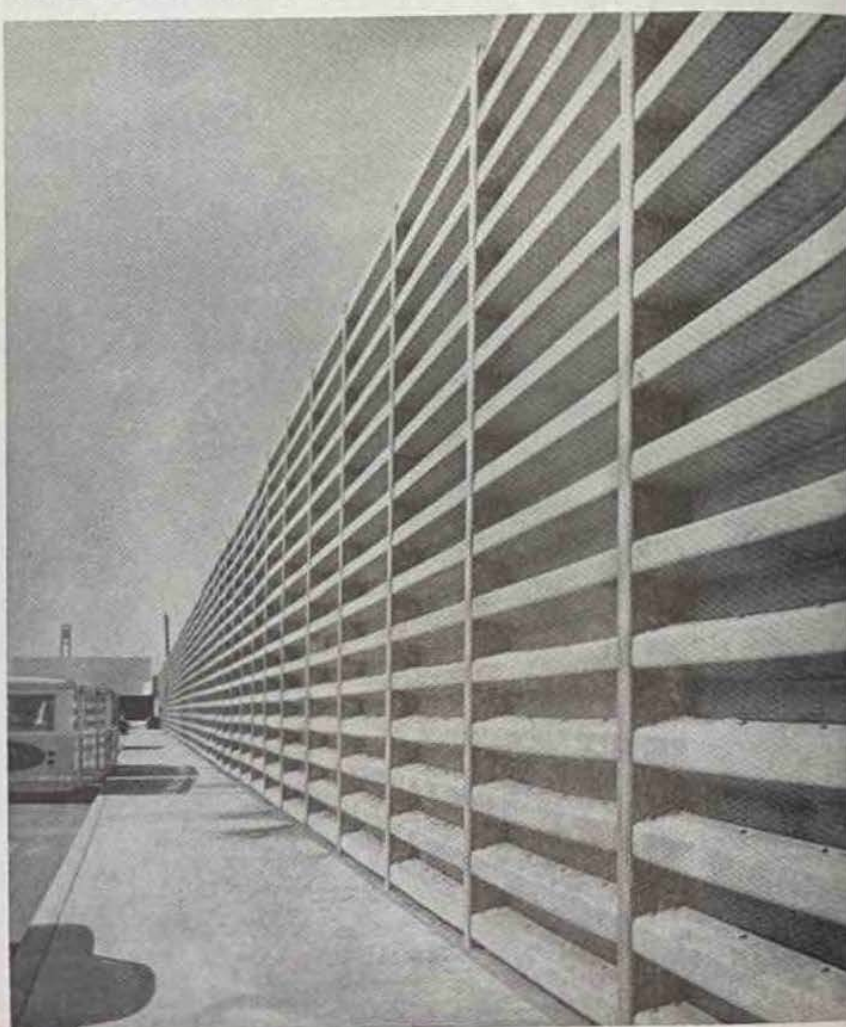
remodeling of present administration building, elimination of present east-west runway and construction of a new north-south runway; hangars, base operations and industrial buildings along east side.

• San Francisco — The $9 million South Terminal at San Francisco International Airport is expected to be completed in September, 1964; is part of the $25 million jet-age expansion program planned for the expected 8.4 million passengers who will use the terminal by 1970. The two-level planning will separate arriving and departing passengers. Ticket and check-in counters are on upper level with aircraft being boarded through second level telescoping fingers reached by piers leading from the ticketing area. Lobby escalators will carry passengers to ground level baggage area and ground transportation. An upper level roadway will serve departing passengers while a lower roadway will be provided for incoming passengers. Architects-Engineers: Welton Becket & Associates, Los Angeles.

LOS ANGELES INTERNATIONAL AIRPORT

Temporary Retaining Wall Does Not Detract From Beauty of Airport

Armco steel bin wall 700 feet long and 16 feet high retains earth for future building site without detracting from beauty of Theme building (left) at Los Angeles International Airport.



A HIGH STEEL RETAINING WALL at the new Los Angeles International Airport is supporting a 700-ft. long level of earth fill until the last two structures in the vast construction program are built.

Selected because of its attractiveness and versatility, the Armco bin-type retaining wall blends into the "two-level" design of the sleek terminal complex of the nation's busiest airport.

An 80-acre lower level of rectangular shape contains a 5,000-car parking lot, control tower and administration buildings, the Theme building with dramatic parabolic arches, and airline ticket buildings. Surrounding this area on three sides is a 14-ft. high level, atop which six airplane loading terminals have been constructed.

When it is needed, a seventh and final terminal will be built by the Board of Airport Commissioners and the Department of Airports on vacant land behind the bin wall. To serve this terminal, a ticket building will be constructed in the area where the 16-ft. high bin wall stands.

Until construction work is completed, the retaining wall holds the earth and preserves the attractive, unbroken lines of the two-level terminal.

The Armco bin wall, quickly erected in 10-ft. long sections and filled with earth for stability, will be salvaged for re-use when dismantled.

Los Angeles International Airport gained the honor of being the nation's busiest air terminal last year when 324,993 aircraft operations were recorded.

PRODUCTS IN ACTION

Lighting for Conoids and Paraboloids

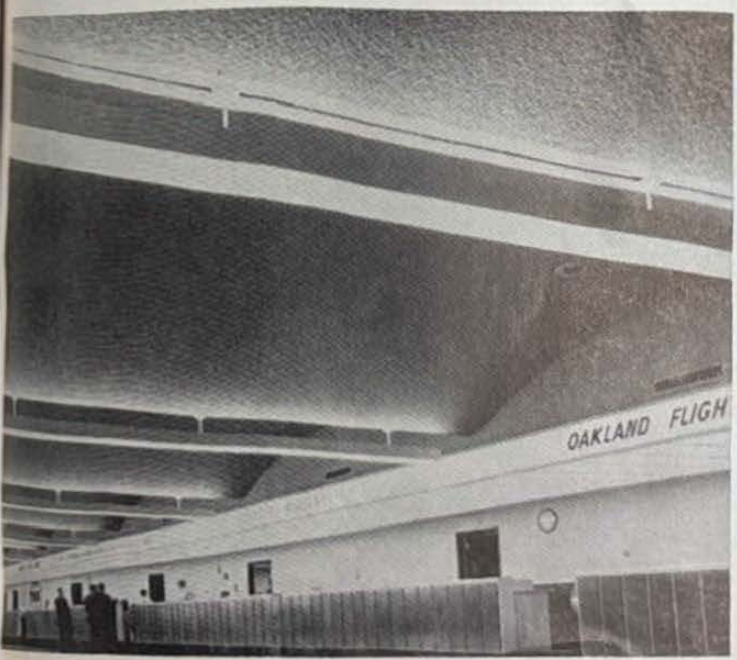
THE LIGHTING SOLUTION for hyperbolic paraboloid roofs systems is usually more difficult than for more conventional roof and ceiling systems. In addition to providing the necessary foot candles over an area, the ligts are expected to enhance—rather than detract from—the light and shadow details of the parabs.

At Oakland International Airport the engineers were faced with two systems —paraboloids over the reception area, and conoids over the ticketing area, the two being adjacent and connected.

In the reception section, plexiglass fixtures 36 inches wide run continuously along the perimeters of the paraboloids, putting 200 foot candles into the area with no metal exposed on the bottom, but with metal side louvers throwing light out against the sloping sides of the parabs so as to heighten the dramatic ceiling pattern.

In the conoid area, where the ceiling presents a pattern of vaults, up and down fixtures were simply suspended at the bottom of the vaults, again producing interesting shadow forms.

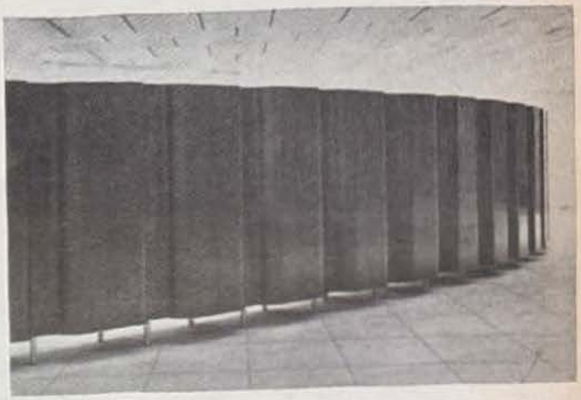
Fixtures were designed by Peerless Electric Co. to specifications of Bentley Engineers, both of San Francisco.

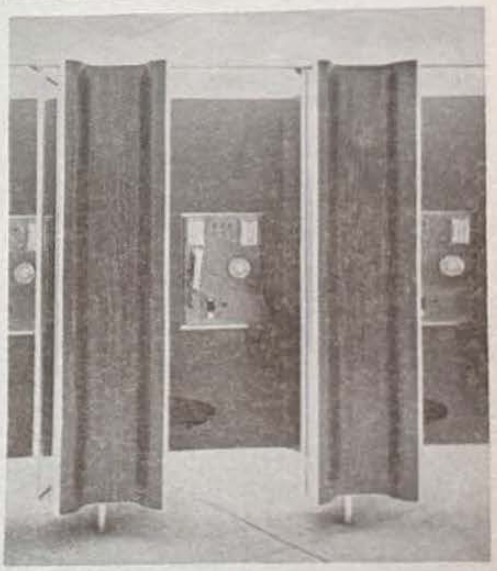


Futuristic Phone Booths for Jet Age Traffic

IN KEEPING with the jet-age atmosphere of the new Los Angeles International Airport, many interior applications of laminated plastic are unique to the point of being futuristic.

For example, 103 curved telephone booths in the ticketing areas are a complete departure from conventional booth design. The booths were built





by Century Store Fixtures, Los Angeles, and Formica surfacing was fabricated by A. L. Blair, Inc., also of Los Angeles. To laminate Formica sheet material to the many radius corners of the booth cores, Blair had to build special heat-forming presses.

Blair also constructed special presses for curved wall panels in the six twin-level satellite buildings where passengers arrive for planes. The Formica Rosewood panels—32 to a satellite and 48x137 in. each—are accented by feature strips of ceramic tile.

Formica surfacing on more conventional areas of the airport buildings includes countertops, information and ticket desk fronts, backwall panels, barrier gates and wainscotting. In all, over 150,000 square feet of the laminate is used on interior surfaces.

gold economy ceiling, walls

A random gold tracing called Golden Web, applied over an off-white base tone, is now offered in ceiling and wallboard hardboard panels. Matching-color nails which blend with the base tone are supplied by the factory. The tile is completely washable, resistant to impact and abrasion, and because of its comparatively low cost, is finding favor for application in schools and institutions.—Building Materials Division, Evans Products Co., (A/W) P. O. Box 3295, Portland 8, Ore.

peekaboo escalator

Balustrades of the Escal-Aire units developed by Otis Elevator Co. are made of transparent safety glass framed in stainless steel. Ten such escalators have been installed in the New York Hilton at Rockefeller Center. Dramatic designs incorporating glass or plastic balustrades—clear, translucent, tinted or textured—can be developed to create almost any visual effect desired.—Otis Elevator Co. (A/W) 260 Eleventh Ave., New York 1, N.Y.

face-lift facade

Designed primarily for modernization work, "facia-wal" is a decorative grid system with a choice of panels including expanded aluminum, fiberglas, plastic, and cast aluminum. The metal panels are finished with baked enamel in a choice of colors. They may be selected to minimize or maximize the amount of light and air admitted, according to the wishes of the building owner. All components of the system are delivered as a complete prefabricated package, ready for installation.—Maco Corp., (A/W) Huntington, Ind.

wood folding partitions

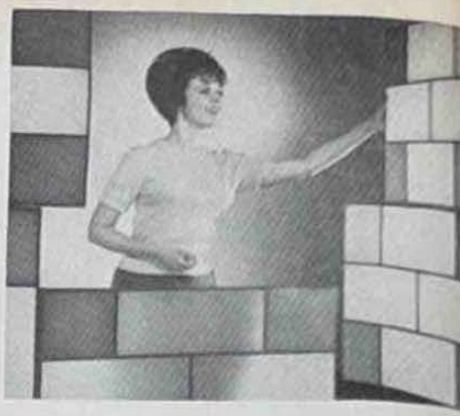
A line of heavy duty wood folding partitions has been introduced by Panelfold. The panels are 8-in. wide laminated solid wood block core, and are faced with cherry, maple, mahogany, walnut, oak, birch, pine or ash veneers. Veneers up to 16 ft. 1 in. high are continuous grain without horizontal splicing. Special features include ball bearing wheels and dual-walled "memory" action extruded vinyl hinges, which provide symmetry of panels and protection of panel edges. Automatic positive latches are standard equipment. Deadlocks with standard 5-pin cylinder and privacy turns can be installed and master keyed to the building security system at no extra cost.—Panelfold Doors, Inc., (A/W) 1090 E. 17th St., Hialeah, Fla.

wallboard joint compound

It is now possible to apply joints and tapes and two coats of topping compound to wallboard—all within the same day. The time-condensing product is called Bestwall 1-Day Wallboard Joint Compound, successfully used in climates of varying humidity and now available through Certain-teed dealers.—Bestwall Gypsum Co., (A/W) 120 E. Lancaster Ave., Ardmore, Pa.

fashion tiles

Four modern patterns conceived so that the design is carried from tile to tile have been introduced by Elof Hansson, Inc. The fashion tiles are made from mineral wool fibers with binder added, providing a durable incombustible and highly sound absorptive tile. Application of tiles is simple and conventional mechanical fastening and adhesive application methods may be used. The tiles are ¾ in. thick and measure 12x12 in.—Elof Hansson, Inc., Acoustical Division, (A/W) 711 Third Ave., New York 17, N.Y.



pastel panel

Seaporlucent, a sandwich-type structural building panel, has two surfaces of Fiberglas-reinforced acrylic-polyester plastic, laminated to an interior gridwork core of extruded aluminum. The air space in the panel serves to insulate it. Seaporlucent is also said to be glarefree, shatterproof, and lightweight (about 11½ lb. per square foot in 3-in. thick panels). Choose from a wide range of permanent pastels or multi-color grids. Suggested applications include exterior wall systems, interior partitions, canopies, marquees, carports, skylights, and wallways.—Architectural Division, Caloric Corp., (A/W) Topton, Pa.

plastic window panes

Fiber glass reinforced plastic window panes are said to eliminate the threat of shattering glass in occupied buildings, as well as the high cost of replacement in industrial plants, schools, greenhouses, and similar establishments where breakage through normal activity or vandalism is high. The glazing panes screen out 98 per cent or more of the ultra violet rays that cause fading, and up to 50 per cent of infrared rays, depending upon the color of the pane, which is available in skylight green, sky blue, and crystal. Insulation value of the panes is said to equal that of glass two to three times as thick.—The Glidden Co., (A/W) 900 Union Commerce Bldg., Cleveland, Ohio.

wire-brushed redwood

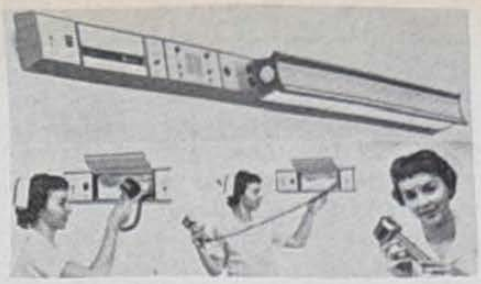
The deep textured finish of Rustic wood 4-12, a redwood plywood with vertical grooves spaced every 4 and 12 inches, is obtained by brushing away the soft wood surface, leaving a raised pattern. The 4 x 8-ft panels provide a continuous grooved pattern when they are joined together. The plywood is available on special order in lengths of 9 and 10 ft., and with grooves 4 in. on center or with multiples of 4-in. spaced grooves.—Simpson Timber Co., (A/W) 2043 Washington Bldg., Seattle 1, Wash.

air ceiling system

The architect can provide heating and cooling systems with no penalty of lost space by making functional use of the building structure itself. The Mahon-aire ceiling utilizes structural deck cells as combined air runs and ceiling diffusers for conditioned air, saving space and much of the cost of auxiliary ductwork and diffusers. Inside the cell is a metering plate which controls both amount and velocity of air admitted to the perforated diffuser or bottom plate, which serves as the finished ceiling. Acoustical treatment and recessed lighting as well as utility lines and sprinkler system can be installed in alternate deck cells as required.—R. C. Mahon Co., (A/W) P. O. Box 4666, Detroit, Mich.

fire-tested windows

The glass in the window melted, but the steel frame remained intact to achieve a certified Uniform Building Code ¾-hour fire rating. The sliding windows are the only ones approved by the Los Angeles Board of Building and Safety Commissioners where fire windows are required by their building code. The Fyre-Tec 261 window is made of pre-finished hot dipped galvanized steel.—Rusco Industries, Inc., (A/W) Box 387, Pandora, Ohio.



modular control console

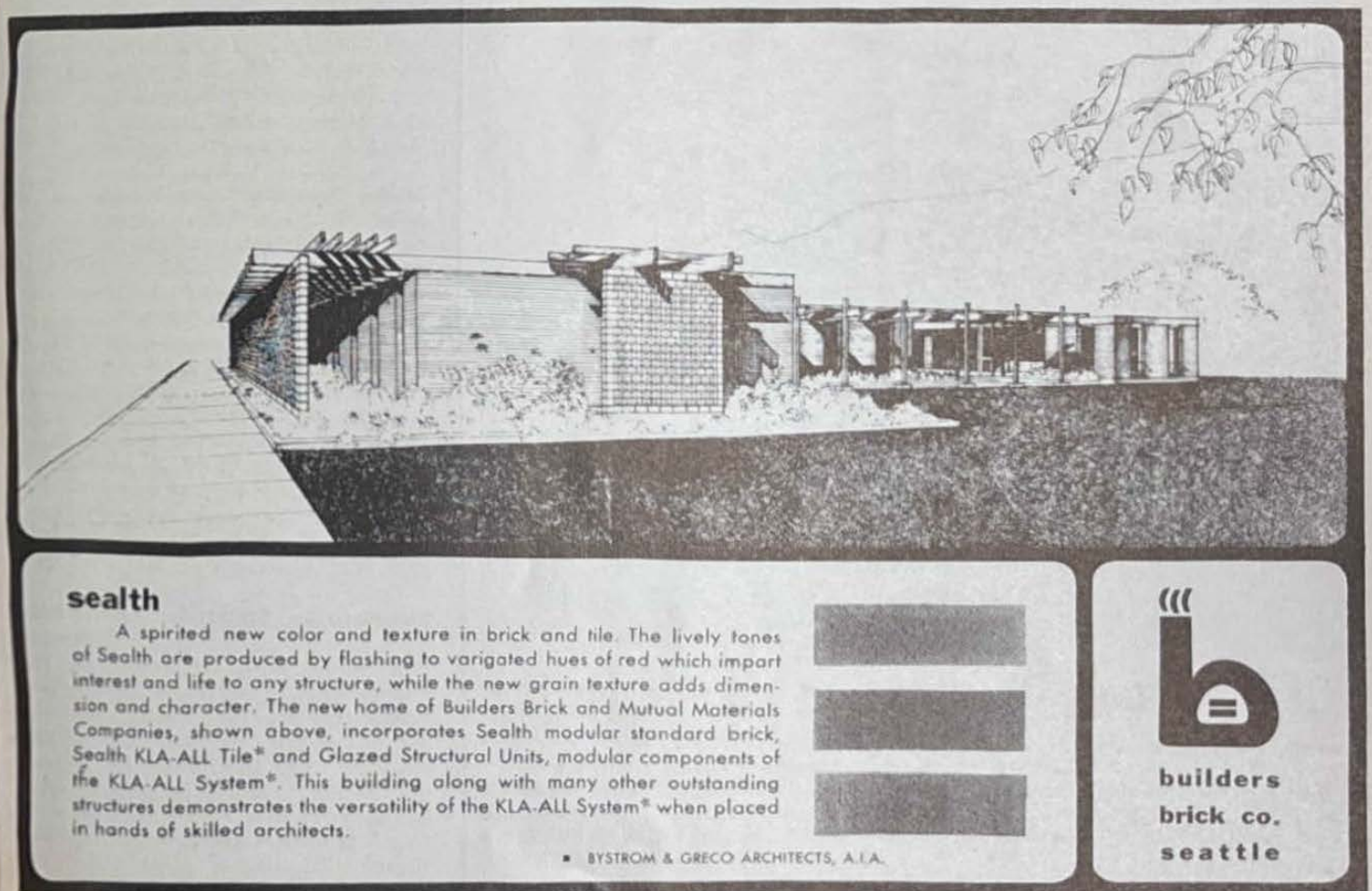
The Consolight system combines within a single wall unit all patient room illumination needs as well as all controls and outlets usually found in various locations throughout the walls of a hospital room. Included in the unit are general room illumination, reading light, night light, physician's examination light, as well as provisions for oxygen and vacuum system outlets, audio-visual nurses' call system, sockets for I.V. support arms, remote control radio and TV, built-in telephone plugs and convenience outlets. As many as four beds can be served by a single set of service lines. One set of lines can also serve two consoles mounted back to back in adjoining rooms. The console portion has a basic length of 40 in., with fascia plates up to 60 in. long available.—Pacific Associated Lighting, Inc., (A/W) 837/839 Folsom St., San Francisco, Calif.

light quiet tile

Acoustone Glacier tile absorbs up to 90 percent of noise reaching its textured surface, but reflects more than 70 percent of the light striking it. The mineral tile comes in both 12 x 12 in. square size and easy-to-apply 12 x 24-in. units with plain or foil backing, used for increased insulation value and higher resistance to sound transmission. The units may be applied with adhesive or suspended on the USG concealed Z-spline system. —United States Gypsum Co., (A/W) 300 W. Adams St., Chicago 6, Ill.

lighting pendants

Spheres, ovoids, tear drops, temple bells, skandles, cylinders, biacones, domes, cones and forms-within-forms make up the Glowtex line of Pendant Coordinates. Ten colors in solid, two-tone and candy stripe variations, in 13 shapes and 41 sizes furnish 340 standard combinations. The pendants can be used singly or grouped from one electrical outlet through the use of multiple spreaders or canopies. Wall hanging is possible with Lightolier's Universal Bracket. The lamps are made from extruded cellulose acetate which provides double-wall glare shielding. — Lightolier, (A/W) 346 Claremont Ave., Jersey City 5, N.J.



LITERATURE

Instant Grid Suspended Ceiling System (AIA 39-B-1): detailed information on Instant Grid and Rigid Grid acoustical ceiling suspension systems stressing simplicity of installation, strength and appearance, economy and versatility. Assembly of Instant Grid requires no special joints, clamps or tabs. 2'x4'x8' Cross Tee slots are interlocked with Main Tee slots by dropping the two components together, forming a tight, square, flush joint, barely visible to the eye. Rigid Grid, equally simple to install, also carries a two-hour fire rating, is completely salvageable. Complete sketches show construction, installation, built-in accessibility of all Flangeklamp suspended ceiling systems.—Flangeklamp Corp., 1971 Abbott Road, Buffalo 18, New York.

Prestige Solid Vinyl Flooring (AIA 23-G): features quick-reference charts showing gauges, sizes and suggested uses for each pattern of the tile. Three new patterns, Pebble, Venezia and Capri have been added to the classic, solid color and conductile static-conductive tile line. VPI tiles are micro-squared to ensure tight joints, versatile enough to be installed safely on concrete floors below grade; concrete or wood floors above grade; on radiant heated floors, steel decking, walls and countertops. Lifelong resiliency withstands concentrated static-loads in excess of 250 psi. 8-pp. full color.—Vinyl Plastics, Inc., 1825 Erie Ave., Sheboygan, Wisconsin.

Porcelain Enamel in Architecture: contains technical information with cutaway drawings and specifications on curtain wall panel details, fascia details, how to specify architectural porcelain enamel on steel for exterior use. Dramatic illustrations of the beauty and some unusual effects that can be obtained with porcelain enamel are shown in four-color catalog.—Challenge Stamping and Porcelain Company, Grand Haven, Michigan.

Sliding, Acoustic Operable Walls (AIA 35-H-6): complete specifications, product application, stressing fixed wall sound control, effortless variation of space allowing adaptation of changing needs in teaching techniques for commercial office buildings, hotels, motels, institutional buildings. Panels are lightweight, slide easily into place to become a wall that delivers 41 decibels of sound reduction overall average. Operates manually with no complicated mechanisms to break down. Work surfaces of chalkboards and tackboards may be applied to one or both sides of any panel. A 30' wall stacks in an area less than two feet deep. 16-pp.—E. F. Hauserman Co., Dept. OW, 5711 Grant Ave., Cleveland 3, Ohio.

Prescolite Lighting: covers in detail Prescolite's recessed series, surface series, outdoor light, portables, fixture and dormitory, bed and hospital lights. The 28-page, well-illustrated book won Sweet's first place award for the most useful lighting catalog of 1962. Specifications, sizes, recommended uses are included.—Prescolite Manufacturing Corp., 1251 Doolittle Drive, San Leandro, Calif.

Adjustable Astragals (AIA 27-B): describes and illustrates the manufacturer's reversible adjustable astragals, a new development in weather sealing for doors, featuring a unique reversible plunger which can be utilized either for conventional metal-to-metal contact or for pile-to-metal contact. Latter application utilizes wool pile insert strips which permit more positive weather seal. Astragals are available in surface, mortise, half-mortise types, all depicted in full-scale detail drawings. Specifications are included. Catalog No. 27B. 4-pp.—The Michaels Art Bronze Co., P. O. Box 668, Covington, Kentucky.

Little Theaters from Modest Spaces presents principles of remodeling and new construction in school, community and church, as based on practice and research of James Hull Miller, noted theater designer. Chapters deal with turning space into small theaters and rules of thumb for such construction; an example of remodeling; three schemes for theaters serving 80, 100 and 150; three budget theaters; fresh concept of stage lighting and electric control equipment. Sketches, dimensions, electrical data included. Bulletin No. 107.—Hub Electric Co., Inc., 2255 West Grand Ave., Chicago 12, Ill.

Select Office Furniture: lines include desk groupings, tables, credenzas, office seating, all in metal or wood legs. Features internal steel construction principle (ISC) in which wood side panels carry no stress to obtain a light scale design, function, and dependability not possible in "wood" desks. Series 8000 and 4000 Costa Mesa office furniture. Catalog 90.—Vista Furniture Co., 1040-P North Olive St., Anaheim, Calif.

If it's wood, Olympic has a stain for it

We make stains for just about every kind of wood imaginable. And we make them better. We use more pigment, more pure linseed oil and more preservative in every can. So naturally, our stains last longer than ordinary finishes. (And look a lot better in the bargain.) Of course, Olympic Stains do cost a little more than other stains. But you simply can't buy a better stain for less.

OLYMPIC STAIN • 1118 N.W. LEARY WAY • SEATTLE 7, WASHINGTON

• **Prescolite Manufacturing Corp.:** Quince Galloway, advertising manager for the San Leandro lighting firm, has been awarded Sweet's Catalogue First Place Award for producing the "most useful" lighting catalogue of 1962. The award was won in competition against the nation's leading lighting manufacturers in a contest judged by independent architects and builders throughout the country.

• **Olympian Stone Co.:** Norman L. Donatt, has joined the Seattle firm as vice president, according to an announcement by L. Swartz, president. Mr. Donatt will head up expanded operations in prestressed precast concrete construction units.

• **Construction Fasteners, Inc.:** A new office and distribution center to facilitate delivery of Weather Gard fasteners and accessories to building and contractor customers on the West Coast, Hawaii and Alaska, has been opened at 285 S. Van Ness, San Francisco.

• **International Pipe and Ceramics Corp.:** Richard Wheeler has been transferred from the Portland office to the position of district sales manager, Seattle. Thomas B. Snowhill has been appointed district sales manager for Gladding, McBean building products in the Portland area.

Fire-Trol Columns

The makers of Lally tubular columns have come up with a new rolled H-steel prefabricated structural column suitable for high rise as well as lower buildings which can be delivered to the site already fireproofed to 2-hour, 3-hour or 4-hour fire ratings and even prepainted or preclad to specifications as desired and ready for installation. Fire-Trol columns have been pioneered and proved in the midwest by Fire-Trol Corp., and have won approval of architects because they retain relatively slender lines (1 inch of proprietary fire-resistant coating meets 2-hour rating requirements).

Licensed fabricators in the West now include Puget Sound Fabricators, Seattle, serving Oregon, Washington, Alaska, northern Idaho and Western Montana. Denver Column Co. serves the Rocky Mountain area. Gordon B. Anderson is president of Puget Sound, which has formed an affiliate, Northwest Column Co., with Harry Diehm as sales manager.

• **Reynolds Metals Co.:** Wayne A. Liebich has been transferred from Seattle to the Troutdale sales office of Reynolds Metals Co. as sales representative for architectural and building products.

• **The Ruberoid Co.:** Lawrence J. Horan, Jr., has been appointed acting western regional sales manager of the Floor Tile Division, with headquarters at the company's plant in Long Beach, California.

• **Marsh Wall Products, Inc.:** E. C. Crampton has assumed the post of western division manager at the company's new Los Angeles manufacturing facilities. E. P. McCarthy is assistant general sales manager and J. J. Robinson, assistant to the general manager.

• **Evans Products Co.:** C. Calvert Knudsen, formerly head of production, Building Materials Division, has been appointed vice president of the Portland company.

• **Orinda Pools:** Donald L. Doughty, president of the Lafayette, California, company is one of the twelve executives appointed by the American Arbitration Association to serve on its National Panel of Arbitrators. They will serve in disputes over the performance of commercial contracts.

• **Portland Cement Association:** Warren G. Burres, district engineer in the Los Angeles office, announces that James E. Amrhein has been promoted to Supervising Structural Engineer and Vernon F. Malley to District Structural Specialist. Both men will work with architects, engineers, building officials in the structural building field in Southern California and Southern Nevada.

• **American - Standard:** Appointment of Carl R. Flodin as a special consultant for industrial air pollution control applications in 11 western states has been announced by T. I. Harriman, general sales manager for American-Standard Industrial Division. West Coast plant is located at San Leandro.

• **Kaiser Aluminum & Chemical Corp.:** The resignation of D. A. Rhoades as president has been accepted by the board of directors, according to Edgar Kaiser, board chairman. T. J. Ready, Jr., who has been executive vice president, will succeed Mr. Rhoades as president and chief executive officer on April 1.

Custom-built EFCO Forms

Although most concrete forming jobs can be handled with standard EFCO Steel Forms, occasionally a job requires custom-built forms, such as the above, used in constructing Minuteman Missile Bases. Whatever the job, EFCO can supply forms that will work.

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Architecture / West

Published by Pacific Builder & Engineer, Inc.
1945 Yale Place E., Seattle 2, Wash. EAst 3-7007

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SALT LAKE CITY

Peggy Hansen, 3790 Lois Lane, CRestwood 7-4606

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Beatrice M. Howell, Box 8048, 773-678

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Red Cedar Shingle Bureau	III Cover
Robertson, H. H., Co.	IV Cover
Stratford Hotel	25
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not specified

THE FIRE RATING PEOPLE ARE WATCHING YOU, warns th Journal of the Insurance Information Institute. The are wondering and waiting for experience with ai supported "balloon" structures, and thin shell concre roofs and glued laminated beams and the glass sk scrapers.

If even a small fire burns a hole in the balloo what will support the structure and keep it from col lapsing? How soon will a 2-inch thin-shell concret paraboloid become un-parabolic with intense hea penetrating to its web of steel?

Someday experience will provide the answers.

Meanwhile when they are faced with writing insur ance on architectural innovations, they look elsewhere i the building to see what other proven techniques fo reducing hazards may be written into the specifica tions. They lay aside their personal tastes in moder or traditional architecture and concentrate on the esse tials . . . are there sprinklers, large open spaces, ingre and egress from more than one wall?

It is in this area that architects are urged to consu with insurance industry engineers during the early plan ning stages, to help improve safety and to keep insu ance costs at a minimum.

The latter factor is too often ignored until too late Frantic thought is given during the budgeting stages t obtain mortgage money over a most favorable perio and at the best possible interest rate. Much head-knock ing occurs in efforts that may save a hundred dolla a year. Yet hundreds and often thousands of dolla of excess insurance premiums that hinge on relativel minor decisions in layout, design or materials specifica tions are lost because realization comes too late. An fire insurance premiums continue to be paid long yea after the mortgage burning ceremony.

Windstorms have blown many panes of glass out o glass skyscrapers, and both the replacement costs an injury liabilities as a result of flying glass are bein watched. Hailstorms have put unwanted patterns i the metal panels of many such structures.

Windowless buildings satisfy many problems fo industry, yet they can become terrible fire fighting trap if they aren't properly equipped.

Laminated wood beams are as sturdy as solid beams and if the glue does not deteriorate in the heat the may outlast exposed steel beams in a fire.

On the other hand, the wide overhanging wooden eaves so popular in homes and some suburban commer cial structures create updrafts that catch sparks and hold them against a wall.

New and unfamiliar plastics, or plastics adapted to unfamiliar uses can create hazards that only a trained fire engineer will recognize.

So the insurance experts urge, consult your insur ance engineers early and often, and save money.

APR 24 1963 SCHOOL OF ARC... UNIVERSITY ...

Architecture / West

A/W

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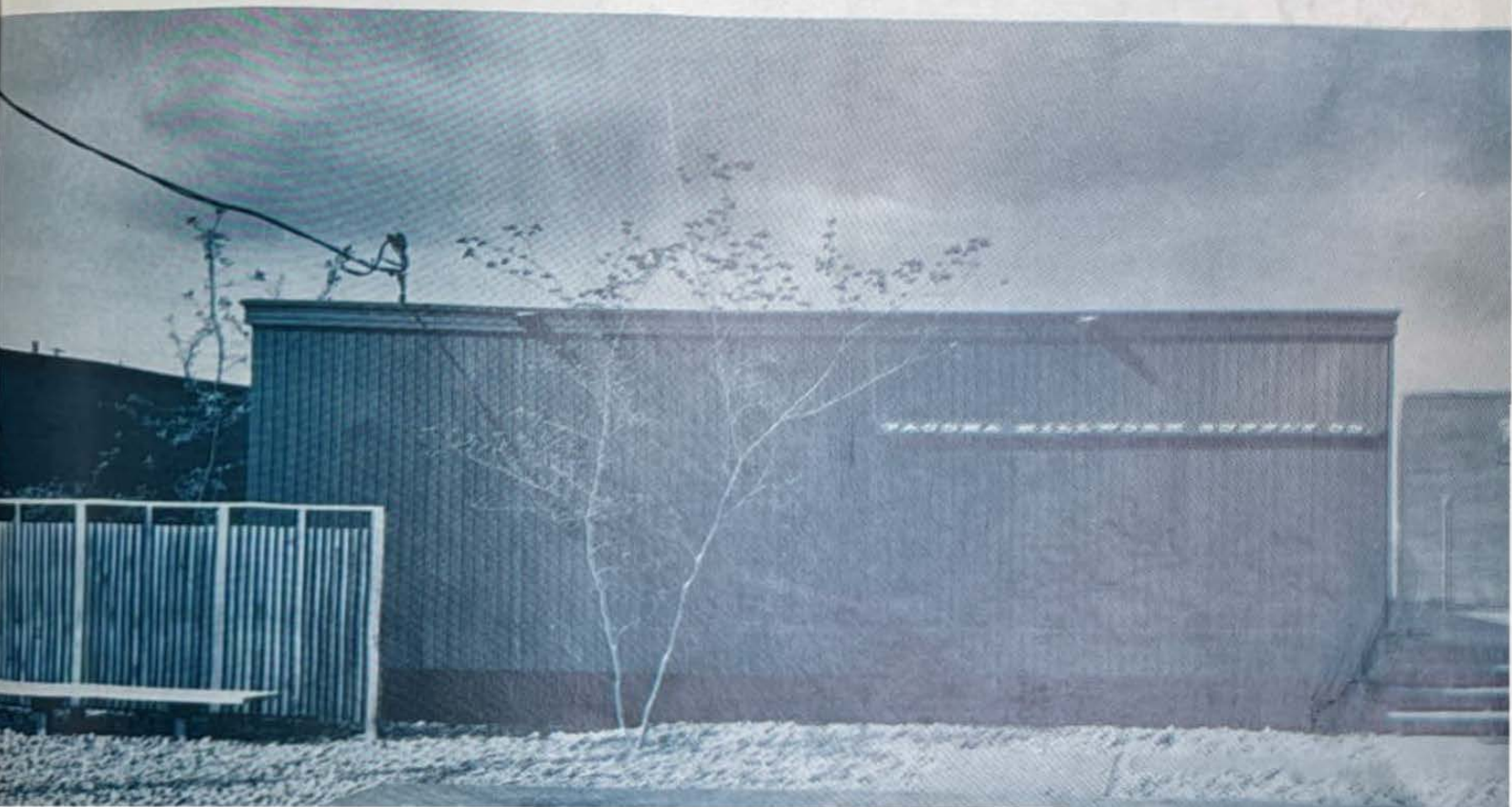

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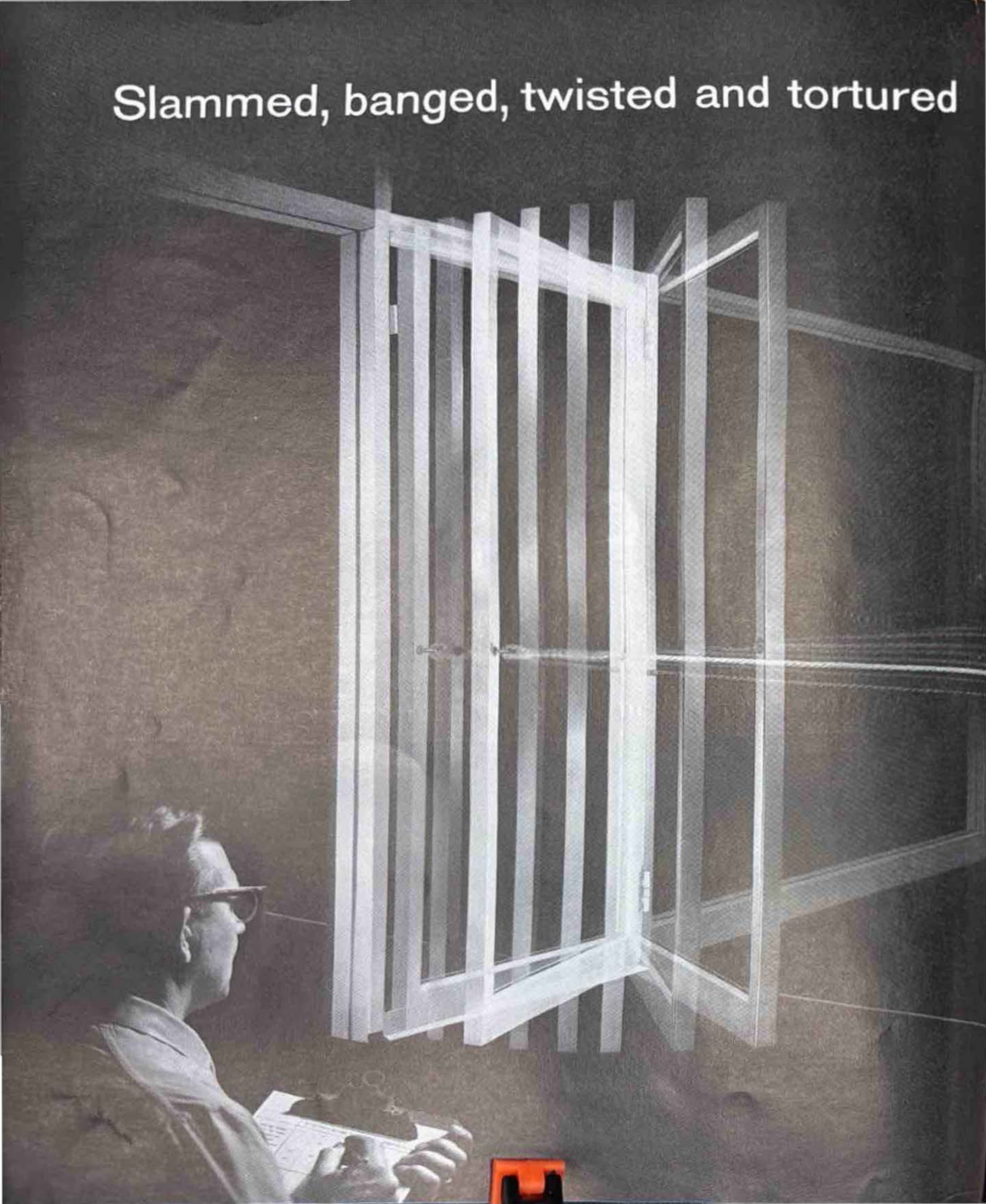
Slammed, banged, twisted and tortured



...over 1,000,000 times without breaking down!

Rugged Slam Test plus Dual-Moment Test by Independent Labs Prove Kawneer 190 Superior

Using the full spring force of a closer with no hydraulic checking action, a Kawneer 190 door was slammed against a racking block more than a million times! This severest test of a door's strength was conducted by an independent testing laboratory.

Their report states that after testing, there were no cracks, corner damage, loose bolts, broken welds or twisted rails. There was no damage, nor sign of wear to hinges and fastenings. Clearances at head, jamb and sill remained constant. Diagonal dimensions were unchanged—proof the 190 didn't sag. The lock-in glass stops were still tight.

Results of Dual-Moment Testing on Doors by Major Manufacturers. Another Independent Laboratory subjected the Kawneer 190 and eight well-known competitive doors to the tortuous dual-moment lever arm and torque test . . . applying forces of common door failure. The corner of the 190 door held fast against a load of 200 pounds. The average performance of other doors tested was failure at 98.7 pounds load.

Dual-Moment Test—Lbs. Applied Before Failure		
Kawneer 190 . . . . . 205 lbs.	Brand 3 . . . . . 60 lbs.	Brand 6 . . . . . 130 lbs.
Brand 1 . . . . . 55 lbs.	Brand 4 . . . . . 55 lbs.	Brand 7 . . . . . 100 lbs.
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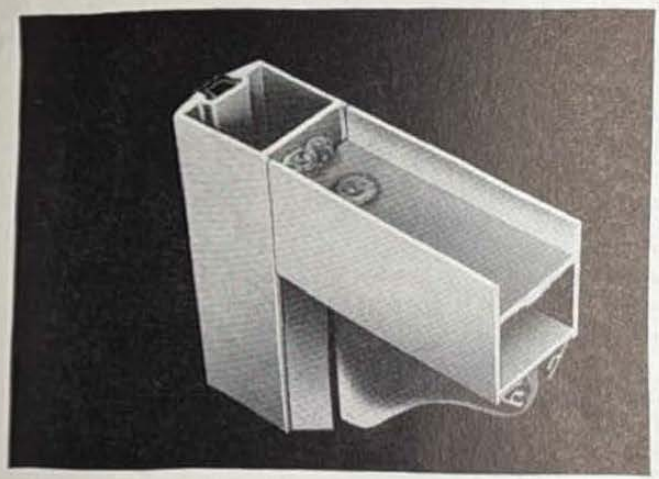
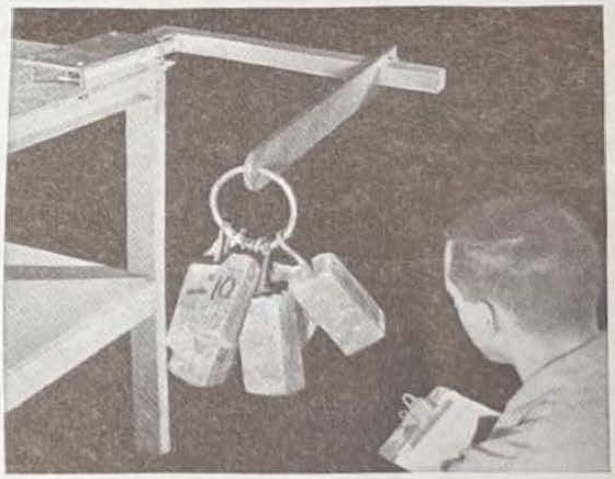
Affidavits of Independent Test Reports are available when request is submitted on your letterhead.

The Kawneer 190 door is better, competitively priced and installs faster. And now it is available in *Kalcolor® (black, gold, amber) as well as Alumilite 204 A1 R1 finish.



Rack-proof . . . The strongest corner construction ever! Kawneer doors are welded four times at each corner with a secured reinforcement.



Dual-Moment Lever Arm and Torque Test . . . Simulates the most common, failure-causing loads submitted on door corners.

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THE BUILDING MONTH

Highlights & Sidelights

OUTLOOK IS UP—Nation-wide, an overall construction expansion of some 5% is predicted for 1963, following a highly successful 1962. Building, in general, rose throughout the year with gains expected in all areas. Apartment buildings showed the largest gain, percentage wise, about 44%, with office construction next, up about 23%. Commercial buildings, manufacturing-building contracts, hospitals and single-family dwellings followed in that order. Biggest expected gains throughout the country are expected to be in public buildings, a predicted 15%, with engineered construction contracts expected to rise 17%. In the West, a continued emphasis is being placed on college buildings, public buildings, particularly at the state level, with urban renewal programs being mapped the length and breadth of the thirteen Western states.

SAFETY GLASS SIGNED INTO LAW—Governor Albert Rosellini, Washington, has signed a bill requiring the use of safety glass in glass doors, the first such state law of its type in the nation. The law applies only to new homes and to remodeling jobs. It does not require persons with ordinary glass in present doors to change to safety glass.

THE UGLINESS AROUND US—New Mexico Chapter, AIA, will explore the problems of ugliness and its implications at their second annual conference, April 19-20. Santa Fe Section will be hosts at the La Fonda Hotel, Santa Fe. Discussions will involve "Responsibility for Ugliness" and "Possible Cures for Ugliness" with prominent architects, editors, planners and authors on the panels. Registration for corporate members is $12.50, and wives, $5.00, payable to Santa Fe Section, c/o Brad Kidder, 717 Canyon Road, Santa Fe, before April 15.

BUILT-IN WEATHER FORECASTERS — Climates in buildings of the future will be governed by computers that will first predict the weather, then use the data to operate temperature-control systems. Minneapolis-Honeywell, who have been viewing automation trends, expect to have the first building linking a computer with the control system in operation early this year. They predict that by the end of the decade, buildings with their own weather-forecasting computers will be in common use. Since people inside the buildings have as much effect on the building's interior climate as does the weather itself, building populations can be prophesied for months fairly accurately, and this can be programmed into an automatic control system. Individual buildings, having their own weather-forecasting systems, will have computers linked with special sensors to automatically check outdoor temperatures, humidity, sun intensity, and so on. The computer will compare these conditions with similar patterns, then forecast what will happen. Such short-range predictions will be used to control the building air-conditioning systems for peak efficiency. Tying the forecasting system in with centralized control systems will mean more efficient use of manpower and optimum mechanical system performances, along with computer-controlled interior climates.

CONSULTING THE CALENDAR—American Society of Planning Officials, May 5-9, Olympic Hotel, Seattle . . . American Institute of Architects annual convention, May 6-10, Hotel Americana, Miami Beach, Florida.

BOISE SKYBRIDGE — Safe passage over 80 ft. wide Bannock Street from a convenient parking garage fulfills the purpose of the new pedestrian bridge, linking the second floor of the Bon Marche Department Store with the new four-level parking structure. The bridge also spans the existing parking lot of the store. Providing a covered walkway, 216 ft. long by 6 ft. wide, the bridge rests on tapered concrete piers and consists of three basic spans, one of 80 ft. and two of 60 ft with a 16 ft. cantilever adjacent to the store. Futur provision allows for enclosing bridge. The main ca rying element will be precast, post tensioned hollo trapizodial shaped concrete box girder. The roof, sup ported by tubular frames of steel, will be an insulate metal deck. The 228-car garage, expected to hand 1000 cars daily, is a cast in place concrete fram building. Gray & Evans, structural engineers, Seattl who designed both buildings, are especially pleas with the final costs worked out with client and co tractor. The bridge is being constructed at a tot cost of $21,823 or about $16.90 per sq. ft., and the g rage, including the ground floor area, at $247,857 $2.55 per sq. ft., about $1,085 per car. General co tractor is Jordan-Wilcomb Co., Boise.

FIRE SAFETY STANDARDS—Fire safety standard affecting a wide range of industrial, commercial an public interests are due for action at the National Fir Protection Association's forthcoming 67th annual meet ing, May 13-17 at the Hilton Hotel, Portland. Majo and minor revisions, and five new standards, wi be acted upon. Included will be air conditioning, coatin manufacture, liquid fuel burning equipment, marina and boatyards, thermostats. In accordance with NFP procedures, any interested party, whether a member o the association or not, may speak for or against th proposals before action is taken. Texts of the propose standards may be obtained by writing to the assoc ation at 60 Batterymarch Street, Boston 10, Mass.

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Business data on page 34

COVER: Tacoma Millwork Supply Company, Tacoma, Wash./Mary Lund Davis and Allan Bucholz, architects, Maarten photos. See page 15.

ABOUT THIS ISSUE: The difference between a national magazine and a good regional publication (aside from the volumes of advertising pages that swell the nationals to such lovely proportions) is more a difference of content than of quality. The nationals must see the broad picture and treat it in depth. A regional can get right down to the grass roots of things, right down to the individuals where they live. This month we have treated some excellent small commercial buildings in good style, presenting them at their photographic best.

But also, down at the grass roots, you'll find three pages of T-Square Talk, starting on page 11. And more awards (we're almost up to here—in awards, with many pages of them published already this year and two more this month, and more scheduled for next month) as we present the best from Orange County, California, and from Southwest Oregon. There may be too many of these programs, and yet they are stimulating and the buildings deserve the spotlight we can give them.

The Tacoma Millwork Supply story starting on page 15 is an example of the grass-roots touch. It's a close-to-home building of merit, housing architectural cabinetwork that is available to architects in seven western states. And the Methods and Materials story on page 28 is a Seattle-developed method of prestressing steel columns in light steel frame buildings, to reduce the cost and to make the buildings lower and architecturally more pleasing by eliminating the tapers and haunches.

Regionals bring their readers many things of merit that nationals must skip over, and we hope that in this manner we serve our "regional" Western Nation well.

NEXT MONTH: Residences from all over the West.

"A stain is a stain is a stain! Right?"

"Not quite, Gertrude!"

Fact is, Olympic just happens to be the best exterior stain on the market. It's made with better materials. There's more pigment, more pure linseed oil and more preservatives in every can.

The difference shows up in results. You'll find that Olympic lasts years longer than ordinary stains. (And looks a lot better while it's doing it.)

Does Olympic last as long as shake paint? Far longer. Unlike paint, Olympic penetrates the surface and dries without forming a film. Because Olympic lets the wood breathe, it can't crack, peel or blister. **OLYMPIC STAIN, 1118 N.W. LEARY WAY, SEATTLE 7, WN.**

FOR THAT BETWEEN PLANE PROBLEM—Currently being tested in Green Bay, Wisconsin, is what looks to be the newest solution on what to do at airports between flight connections. A pilot "Smalltel" project has been so successful that airports throughout the country are expected to utilize the idea. Smalltels are 8'x5' roomettes, designed to get weary passengers out of waiting rooms, and into private lounging quarters where they will find available a swing-out bed, complete shower and lavatory, TV, phone. Minimum charges are about the same as for parking a car on a city lot.

ALBUQUERQUE'S BOOM—Investors and builders are rushing to tap what they believe to be a neglected apartment market in this New Mexico city. Under construction or on the drawing boards, are some 2578 units, representing investments of about $27 million. The increase in building has been attributed to several factors: (1) it is less costly to construct an apartment unit than a single family home principally because they do not require as extensive a network of services, such as roads, sewers and utility services, particularly the popular high-rise type; (2) there has been a recent reduction in discount rates, and (3) the increased mobility of the population in Albuquerque. Investors, searching for safe long-term investments, seem to have just scratched the surface of the apartment market, yet there is a growing feeling that at the present construction rate the saturation point is being rapidly reached. The big question at this point is: what will happen to the many older units if all contemplated projects are completed? Are builders going beyond the point of demand?

PACKAGE SERVICE—The architect of the future may be a "package" practitioner, one who will not only make feasibility studies for his client, but suggest ideal sites and methods of finance. This prediction was recently made by William H. Scheick, executive director of the AIA, Washington, D.C., who also believes that the evolving architect, knowledgeable in many fields, is developing through the dictates of changing times and in the face of competition through the "package" developer. An education committee of the AIA is studying curriculum changes that will assist students as this evolution becomes fact.

Seattle Hosts Church Architectural Conference; Three West Coast Churches Win Top Awards

The new look in church buildings is simplicity, architectural designers and theologians addressing the National Conference on Church Architecture in Seattle in March, agreed. The nation's largest annual gathering of church architects and Protestant clergymen responsible for building programs, met for the first time in its 24-year history, in the Northwest, March 5-8.

Sponsored jointly by the Department of Church Building and Architecture, and the Church Architectural Guild of America, the conference attracted some 800 designers, craftsmen and denominational executives.

Keynoting the conference was an address by Pietro Belluschi, FAIA, dean of M.I.T. School of Architecture and Planning, who told architects that the superficialities which are a part of modern architecture must be discarded and that a sense of humility be acquired since the design of churches mirrors our civilization and religious climate. He urged church designers to practice restraint and integrity because a house of worship comes closer to pure art than any form of architecture with the possible exception of monuments. The importance of simplicity in church design was continually stressed.

Top honors for architectural awards, from among the 80 entries, were won by architects representing Orthodox, Presbyterian, Roman Catholic churches, and a community church serving several Protestant traditions. Cited were Reid, Rockwell, Banwell and Tarics, San Francisco, for the Greek Orthodox Church at Belmont, California; Grant, Copeland and Chervenak, Seattle, for the Newport United Presbyterian Church at Bellevue, Washington; Lusk and Wallace, Colorado Springs, for the Broadmoor Community Church in that city; and Murray-Jones-Murray, Tulsa, Oklahoma, for St. Patrick's Roman Catholic Church, Oklahoma City.

The awards were selected by a jury comprised of three architects and three clergymen. Architects serving as jurors were Paul Thiry, FAIA, Seattle; Harold Spitznagel, FAIA, Sioux Falls, South Dakota; and John Storrs, Portland.

The fifth ecclesiastical arts exhibition, assembled from works of talented designers throughout the United States, was held in conjunction with the conference. The 1963 Arts Award Jury was headed by architect James E. Hussey, Seattle, assisted by architect Walter A. Johnson, Tacoma; Professor Boyer Gonzales, head of the art department, University of Washington; the Reverend Canon Thomas E. Jesset, Highland Parish, Seattle; and Anne Todd, Seattle art critic.

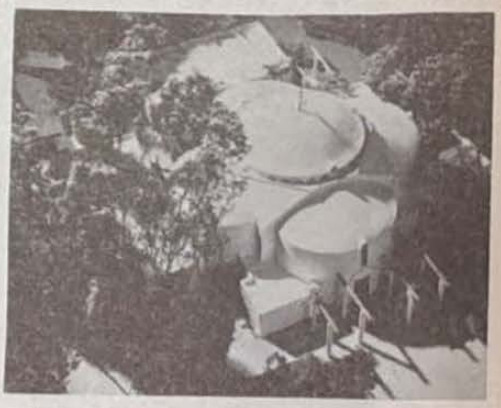
At the business session just prior to the opening of the conference, architect Milton Grigg, Charlottesville, Virginia, was elected to the presidency of the Church Architectural Guild of America. Robert L. Durham, Seattle, honorary chairman of the conference, who was named vice-president, was also honored for his work as architect of the Christian Pavilion at the Seattle World's Fair. Robert Inslee, Los Angeles, was elected western regional vice president.

Those attending the conference heard four major presentations by nationally recognized church and architectural authorities; had two workshop tours of Seattle area churches; and participated in seven workshops on such provocative subjects as Community Needs and the Church's Program; The Master Plan, the First Unit and the Small Church; Collaboration of Building Committee and Architect; Selecting and Developing the Site (moderated by Paul Hayden Kirk, Seattle); Contemporary Art and Symbolism in Church Architecture.

Next year's national conference will be in Dallas, Texas, at the Sheraton-Dallas Hotel, April 7-9, marking the 25th anniversary of the founding of the Church Architectural Guild.

BROADMOOR COMMUNITY CHURCH, Colorado Springs, Colorado. Architects: Lusk & Wallace, Colorado Springs.

NEWPORT UNITED PRESBYTERIAN CHURCH, Bellevue, Washington. Architects: Grant, Copeland & Chervenak, Seattle.



GREEK ORTHODOX CHURCH, Belmont, California. Architects: Reid, Rockwell, Banwell & Tarics, San Francisco.

HIGHLAND PARK CIRCLE, ALBUQUERQUE

The elevator shaft, completely separated from the building, adds a focal point to the seven-story structure. Designed to utilize a structural steel frame with open web steel joists and lightweight concrete floors, the building will house 50 apartments, each with an indented balcony. Exterior of the apartment project is predominately of brick and cement plaster. Each apartment will be heated and cooled with a combination air conditioning-heat pump unit. Architect: Donald R. Roark, Denver.

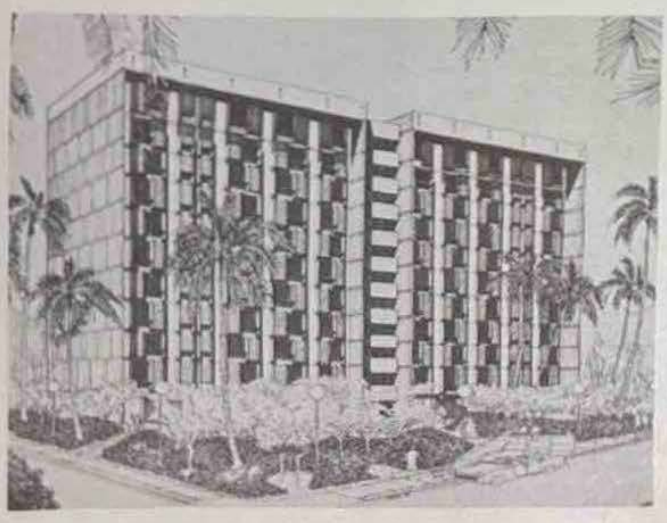
PROJECT PREVIEW

MULTI-PURPOSE FACILITY FOR SACRAMENTO SCHOOL

Pre-cast arches and the use of decorative unglazed terra cotta tile, similar to that on existing structure, will carry out the Spanish character of the Lincoln School when the new addition is completed. The building is of reinforced tilt-up construction with glue-laminated beams spanning structure in transverse direction. Elevation shown in sketch faces south, a sun problem in the Sacramento area, hence no windows were included in this phase of the design. Architects: Cox-Liske Associates, Sacramento.

EUROPEAN STYLE APARTMENTS FOR ANCHORAG

Designed around a landscaped and glass skylighted ce tral court, open to interior access balconies on all s floors, the Four Seasons Apartment is one of Alaska first lift-slab buildings. Of concrete and steel co struction, it will have 70 apartments, divided in studio, one and two-bedroom units. Project estimated $1.75 million, will be completed in 1964. Architect Jones, Lovegren, Helms & Jones, Seattle.



$1.5 MILLION HONOLULU CONDOMINUM

To provide low-cost apartment houses in a landscaped private park, this 98-unit condominium has been sited on a one-acre flat lot in central Honolulu, within walking distance of a major shopping center, banks, markets, schools. The 11-story structure allows a view to Waikiki and Diamond Head from all apartments. Parking is provided in a two-level garage, partially sunken below grade. The 6" precast wall panels eliminate all columns. Exterior walls will be exposed aggregate outside and painted interior faces. Staggered millwork openings will be resawn 3x12 redwood with grey glazing and redwood slat jalousies. Architects: Moore and Tatom, Honolulu.

Tom Burns, Jr. Photos

THURSTON HIGH SCHOOL, Springfield. Architects: Wilmsen, Endicott & Unthank, Eugene.

Two Firms Take Three Honors . . . S.W. Oregon Annual Competition

Top Honor Award in the Southwest Oregon Chapter's annual competition went to the Eugene firm of Wilmsen, Endicott & Unthank for their Thurston High School in neighboring Springfield. The jury cited the school for its "highly unified quality" and "simple elegance." They called the $9.70 per square foot construction cost of the $1.2 million school "fabulously low."

The same firm also took one of the two Awards of Merit, the second going to another Eugene firm, Balzhiser, Seder and Rhodes.

Architect George Rockrise, San Francisco, was chairman of the jury comprised of architects John McGough, Spokane, and David McKinley, Seattle.

FIRST NATIONAL BANK Branch Office, Eugene. Architects: Balzhiser, Seder & Rhodes, Eugene.

FAIRVIEW HOME for mentally handicapped, Salem. Architects: Wilmsen, Endicott & Unthank, Eugene.

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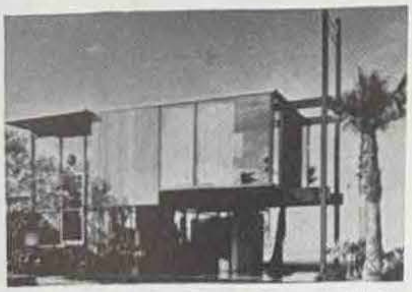
CAPISTRANO-BY-THE-SEA, geriatrics hospital at Dana Point. Architects: Ramberg and Lowery, Santa Ana.

Orange County Chapter Cites Seven

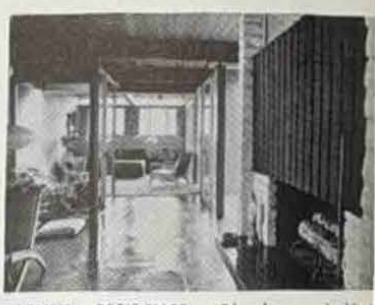
In the first such event held since 1959, members of the Orange County (Calif.) Chapter, AIA, submitted 65 entries for evaluation by a jury composed of Elizabeth Kendall Thompson, western editor of Architectural Record, and architects William Pereira, Los Angeles, and George Vernon Russell, Pasadena.

Six awards of merit were made for completed work, and one award of commendation for a preliminary scheme. Three of the merit awards went to George Bissell, Jr., Laguna Beach, two of them for work done in association with William Duquette, Pasadena. The commendation award went to Richard Leitch, Newport Beach, for the proposed Centex-Trousdale housing development in Hawaii. Other winners named were Blurock, Ellerbroek & Associates, Corona del Mar; Schwager and Desatoff, Costa Mesa, for their own office building; Ramberg and Lowery, Santa Ana.

REBA DENTAL ARTS BUILDING, Pasadena. Architect: George Bissell, Jr., Laguna Beach, in association with William Duquette, Pasadena.



OFFICE BUILDING, Costa Mesa. Architects: Schwager and Desatoff, Costa Mesa.



EARNEY RESIDENCE, Glendora. Architect: George Bissell, Jr., Laguna Beach.

HIGH SCHOOL, Corona del Mar. Architects: Blurock, Ellerbroek & Associates, Corona del Mar.

CONVENT and RECTORY, Assumption of The Blessed Virgin Parish, Sierra Madre. Architect: George Bissell, Jr., Laguna Beach, in association with William Duquette, Pasadena.

CENTEX-TROUSDALE proposed housing development, Hawaii. Architect: Richard Leitch, Newport Beach.

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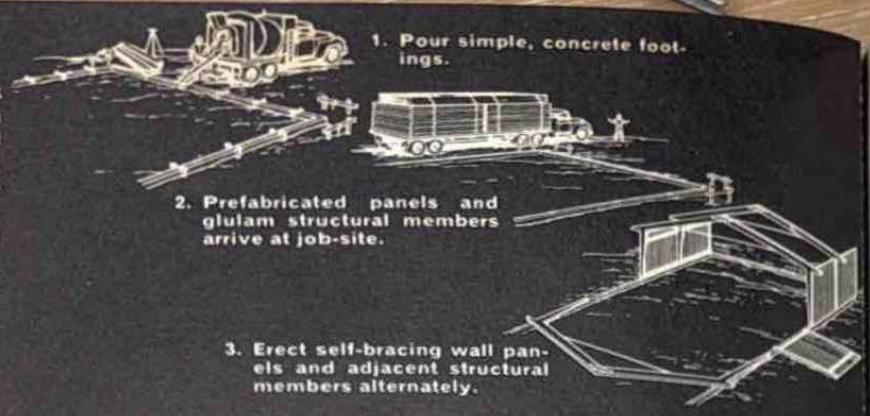

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3. Erect self-bracing wall panels and adjacent structural members alternately.

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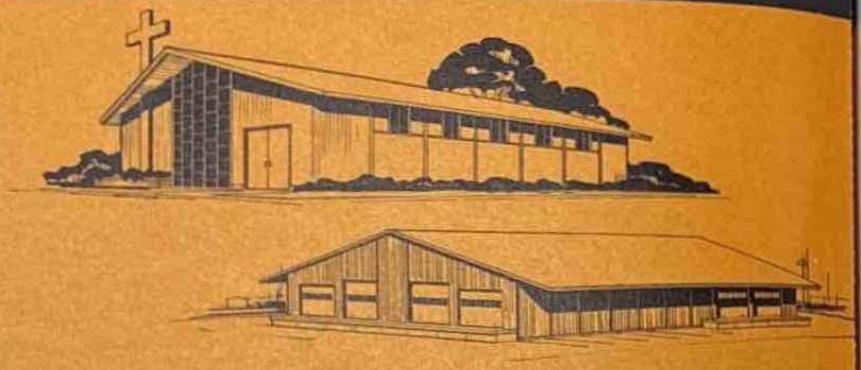

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new offices

Alan Petersen has opened offices for the practice of architecture at 1600 Sherman St. in the Capitol-Life Building, Denver. He was most recently with A. J. Ryan and Associates.

John Bartlett and Associates announce the opening of architectural offices at 158 East Foothill Boulevard, Arcadia, California.

Allan Steinau, architect, has opened offices at 81 Beach Road, Belvedere, Calif. He was formerly a partner in the firm of Hatch, White, Steinau, San Francisco.

firm changes

Robert H. Ainsworth, Pasadena, announces that Herbert W. Angel and Robert R. McClellan have become partners in the new organization of Ainsworth, Angel and McClellan, AIA. Offices will remain at 1199 E. Walnut St.

John Carl Warnecke announces the appointment of Thomas H. Creighton as vice president and partner in the firm of John Carl Warnecke and Associates, San Francisco. A former professor of architecture at Columbia University and editor-in-chief of Progressive Architecture, Mr. Creighton has resigned his post at Columbia but will continue as an editorial director of the magazine.

Formation of a firm to be known as Wong-Cummings Associates at 29 East First Avenue, Scottsdale, Arizona, replaces the firm of Wong Associates at that address. Associated in the new organization will be Joe B. Wong and Jack Cummings.

The firm of Wilson & Westgaard, Architects, has been terminated with work continuing under the original firm name of Joseph T. Wilson at the same office locations in Denver and Alamosa, Colorado.

Robert H. Peterson, Los Angeles, announces the appointment of Harold L. Meek as an associate and the change of name to Robert H. Peterson, AIA and Associates. Offices are at 5229 N. Figueroa St.

The firm of Williams and Martin, Portland, has dissolved partnership and the former partners are establishing separate practices. Max P. Williams will continue his association with Richard C. Ehmann in new offices at 3777 S.E. Milwaukie Ave., under the name of Williams and Ehmann, Architects. Robert B. Martin will continue his practice at 1801 N.E. Couch Street, in association with Raymond S. Smith and Brainard J. Gannett.

Harold D. Hauf, a vice president of Charles Luckman Associates, has been given the added assignment of Director of Architecture. Richard C. Niblack has been elected a vice president of the firm and will be responsible for directing the design department of the Los Angeles based firm.

George Muraki, Sacramento, announces the association of Ray Takata into his firm, recently moved into new offices at the Lanai Shopping Center, 5675 Freeport.

Wayne G. Pippin has accepted the position of executive vice-president and general manager of Hagman and Meyer, Los Angeles architectural firm. He will assume over-all internal direction of the firm's 22-man staff in the Los Angeles and Menlo Park offices.

Aubrey Horn has left Flewelling, Moody & Horn, Los Angeles, to enter the field of industrial management. The firm name will revert to the former organization Flewelling and Moody.

Jack T. Belcher, Las Vegas architect, announces the association of Gene Sanchez, Bill Simpson and Al Marsh with his firm at 217 E. Garces.

Leonard L. Hunter has been appointed vice president and full partner in the John Carl Warnecke & Associates architectural firm, San Francisco.

appointments

William Glenn Balch, FAIA, of the Los Angeles architectural firm of Balch-Hutchason-Perkins, has been appointed Chairman of the Advisory Board to the State Division of Architecture, Department of Public Works, for the coming year.

Howard A. Friedman, San Francisco, and Joseph L. Johnson, Los Angeles, have been reappointed by Governor Edmund Brown to the board of architectural examiners. Terms are for four years.

William Irving Parr, Lewiston, Idaho, has been appointed to the Nez Perce County zoning commission.

Max E. Kuhr, Havre, Montana, has been named chairman of the City Zoning Board of Adjustments.

William Koblik, Sacramento, has been named by the California Council, AIA, as its member on the board of directors of the California State Builders' Exchange. He will succeed Gates Burrows, Santa Ana, who resigned after five years.

Marko E. Botich, Anaheim architect, has been appointed director of the Division of Architecure and Engineering of Charles W. Adams Associates, Los Angeles construction and land development consultant firm.

Jerry Gropp, Seattle, has been appointed as chairman of the 1963 Home of the Month program for Seattle Chapter, AIA. In this capacity he will select a residence each month in a program jointly sponsored by the chapter and the Seattle Times.

elections

Alfred M. Dreyfuss, Sacramento, was elected president of the California Council, AIA, at the annual meeting of the CCAIA Board of Directors in Palm Springs in February. Other officers: Ulysses F. Rible, FAIA, Los Angeles, vice president; Donald L. Hardison, Richmond, secretary; David F. Potter, Palo Alto, treasurer, and Donald E. Neptune, Pasadena, delegate-at-large.

Howard Brandis, Las Vegas, is new president of the Las Vegas chapter, AIA, with Jack Miller, Las Vegas, serving as vice president and George G. Tate, also of Las Vegas, as secretary-treasurer. All were elected to a two-year term.

Garland Bryan has been elected chairman of the Albuquerque section, New Mexico chapter, AIA. Bill Wilson was re-elected secretary-treasurer, and Joe Boehning was named director.

Santa Barbara Chapter, AIA, has elected Reginald Crowell, Jr., Oxnard, president. Other officers: Frederick Noel, Santa Barbara, vice president: Andrew Stephenson, Ventura, secretary; Frank Greer, Santa Barbara, treasurer; Fred Hummel, Ventura, John Henderson and Wallace Arendt, Santa Barbara, directors.

Central Valley Chapter, AIA, Sacramento, has elected Tod Hart, Sacramento, president for 1963. Other new officers: James C. Dodd, vice president; Silvio Barovetto, secretary; Dean F. Unger, treasurer, all Sacramento; Kenneth K. Kaestner, Modesto; Daniel J. Nacht, Edward C. Patton, Whitson W. Cox, all Sacramento; Robert Oliver, Marysville; Richard A. Patrick, Yuba City, directors.

honors and awards

Paolo Soleri of Paradise Valley, Arizona, was awarded the AIA Craftmanship Medal for his concrete house and workshop which he constructed in the Arizona desert, as well as other works demonstrating the scope and creativity of this young Italian architect.

Ten West Coast architects will be advanced to the rank of Fellow at the AIA convention in Miami this May. To be honored are John Savage Bolles, San Francisco, for service to the Institute and public service; Victor Steinbrueck, professor and acting head of the Department of Architecture, University of Washington, for his contributions to literature (See April 1962 issue of Architecture/West); Roger Bailey, professor and head of the Univeristy of Utah's Department of Architecture, for contributions to education; Edward A. Killingsworth, Long Beach, for design; Roger Yuen Lee, Berkeley, for design; Sidney Wahl Little, Tucson, education; Charles Luckman, Los Angeles, public service; William Gray Purcell, Pasadena, design; George Rockrise, San Francisco, public service; Charles Day Woodford, Los Angeles, service to the Institute.

The Edward C. Kemper Award has been given by the American Institute of Architects to Samuel E. Lunden, FAIA, Los Angeles, for significant contributions to the Institute and the profession. He has been an active member of the AIA for 20 years, serving on special assignments and committees, as well as holding offices in the Southern California chapter. The award will be presented at the AIA convention in May.

miscellany

Talbot Wegg has resigned his post as Seattle urban renewal coordinator and will return to private architectural practice. He has held the position since it was created in 1958. Prior to his appointment he was associated with the Seattle firm of Victor N. Jones & Associates.

Paul Hayden Kirk, Seattle, and George Rockrise, San Francisco, are serving on the Design Advisory Council of the Portland Redevelopment Commission. Pietro Belluschi, dean of the School of Architecture, MIT, and formerly of Portland, is the third member of the council, who will advise the city on design proposals for rebuilding some downtown areas and encouraging better architecture.

John Graham, Seattle architect, has been named as jury member to select winners in the annual Prestressed Concrete Institute Awards Program.

Louis J. Dellaport, associate professor of Architecture at Idaho State University, will participate in a teachers seminar June 9-19 at the Cranbrook Academy of Art, Bloomfield Hills, Michigan. The seminar will draw architects from throughout the country for discussions related to improving the teaching of architecture at the college level.

James M. Hunter, FAIA, Boulder, Colorado architect, has been teaching at the American Academy in Rome as architect in residence, offering criticism and coaching to students in the architectural category. The academy offers post-graduate curriculum to a restricted number of advanced students in architecture, landscape, painting and sculpture.

Honolulu architect Frank Slavsky, and L. Harold Whitaker, designer, have announced their association with Richard Leitch & Associates, architects and planners of Newport Beac Calif. The association has been forme to coordinate activities of the tw firms on Island projects for Cente Trousdale Construction Co.

Robert Bosworth, artist-architec Medford, Oregon, has become a assistant professor in the school o architecture at the University of Ore gon, Eugene.

Theodore Osmundson, Jr., Sa Francisco, has been elected third vic president of the American Society o Landscape Architects and will assum duties at the close of the ASLA' sixty-fourth annual meeting in Pitts burgh, Pennsylvania on June 26.

new addresses

Thomas M. I. Leake to Depoe Bay Oregon, from Newport, Oregon.

T. Gregory Saito to 6206 - 30t Avenue So., Seattle, from Ephrata Wash.

J. W. Dixon Clayton to 5337 s Fisher Place, Seattle, from Spokane

George B. Boyd to 1438-169th Plac N.E., Bellevue, Wash., from Missoula

H. E. Goodpastor to 3705 Par Road, Sacramento.

Richard D. Stevens to 1148 Har vard Ave., Billings.

Gordon Stafford to 1024½ J Street Sacramento.

Woo, Jackson & Edwards, Archi tects, to 4029 East Madison St., Se attle.

Arthur E. Jack, to 4705 N. 77th Place, Scottsdale, Arizona, from Phoe nix.

Irvin Finical & Associates to 10 E. Alameda, Suite 414, Tucson.

William A. M. Wile to 278 Detroit Denver.

Murry Harris to 407 N. Marshal Way, Scottsdale, Ariz.

Takeshi K. Yamamoto to 6221 Ral ston Ave., Richmond, Calif., from San Francisco.

Walter R. Hagedohm to 945 South Western Ave., Los Angeles.

George Kenneth Rubel to 4710 North 16th St., Phoenix.

Denis Beatty to 233 Post St., San Francisco.

H. K. Wolfe to 1825 Fir St. S.E. Auburn, from Seattle.

Robert H. Ricciardi to 45-470 Sunrise Lane, Palm Desert, Calif.

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Glen R. Schaver to 4236 N. Central Ave., Phoenix.

Cecil R. Sult to 1570 Kanalui St., Honolulu.

Paul Wilson Bosholm to 350 Waverly St., Palo Alto.

Wendell Harbach to 5994 Londonderry Drive, Riverside, Calif.

Edward P. Balaun to 435 S. Curson Ave., Los Angeles.

William H. Cartmell to 3425 N. 62nd Place, Scottsdale, Arizona.

E. S. Bernson to 1321 East 33rd S., Salt Lake City.

Tom Woo to 15035 Del Gado Dr., Sherman Oaks, from Los Angeles.

Gordon MacCormack to 824 53rd St., Sacramento, from Redwood City.

Sidney Eisenshtat to 144 South Beverly Dr., Beverly Hills.

Alfred A. Guevara to 642 S. Glasgow Place, Hawthorne, California, from Downey.

W. J. Bennington to 2517 Arvin Road, Billings.

Anthony Thonis to P. O. Box 737, Buellton, California, from Los Angeles.

Robert I. Hench to 1020 Madison Place, Laguna Beach, from Costa Mesa.

Thomas Culbertson to 18 Bobolink Road, Orinda, California, from Berkeley.

John Badgley to 1170 Pacific Street, San Luis Obispo.

Glen Hunt, landscape architect, to 202 E. Boston St., Seattle.

deaths

William C. Hayes, FAIA, professor emeritus of architecture at the University of California, died at Ashby Convalescent Hospital in Berkeley on January 4, at the age of 89. Mr. Hayes, with his partner, architect John Howard, helped supervise much of San Francisco's rebuilding after the 1906 earthquake and fire. Educated at the University of Pennsylvania, he also studied in Paris, Rome and Egypt.

Gordon D. White, Denver architect, died March 7 at the age of 71. A graduate of the University of Colorado and the University of Pennsylvania architectural school, Mr. White had been a practicing architect since 1916.

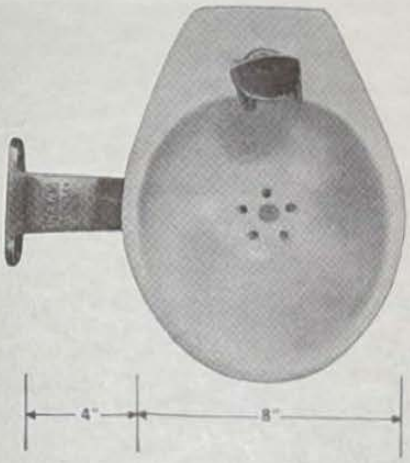
George J. Lind, a partner in the firm of Van Pelt and Lind, Architects, passed away early in February at Newport Beach, California, where he was in practice. Mr. Lind was a member of the national AIA committee on Professional Practice; and charter member of Orange County Chapter, AIA, which he served as president.

John Patrick Beggin, 29, architect with the San Francisco Redevelopment Agency, was killed in a jet-fighter crash at Alameda Naval Air Station in February during a weekend reserve training mission. Mr. Beggin was a Marine Air Reserve Captain. He received his master's degree in architecture from the University of California at Berkeley and had been with the Redevelopment Agency two years.

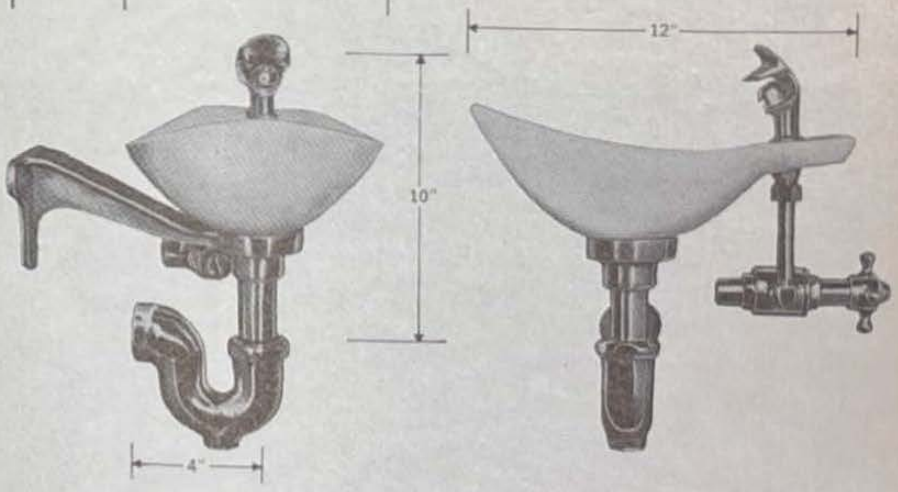
John Bakewell, Jr., FAIA, who helped design such buildings as San Francisco's City Hall, died at his home in San Francisco February 19 at the age of 90. In partnership with Arthur Brown, Jr. and Ernest Weihe, Mr. Bakewell designed the Hoover Library on Stanford campus, Temple Emanu-El, the Berkeley City Hall and the Pasadena City Hall.

ANOTHER HAWS PROJECTION OF STYLE

HAWS MODEL 1505



This aristocratic Haws fountain is the *practical* choice of professionals who specify for *economy* as well as beauty. Channing Wallace Gilson designed it. Haws Craftsmen shaped it in gleaming vitreous china. The *Triennale Internazionale* of Milano, Italy, selected it for exhibition as superior international design. That was in 1957. Today, you can get this Haws exclusive in polished aluminum, or with your choice of colors in vitreous china and enameled iron. Wall or pedestal mounted. Specify superior design at a popular price! Write for detailed specifications—today!



Write for our comprehensive catalog! (We're in SWEET'S File, too.)

Since 1909 HAWS DRINKING FOUNTAINS

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HAWS DRINKING FAUCET COMPANY
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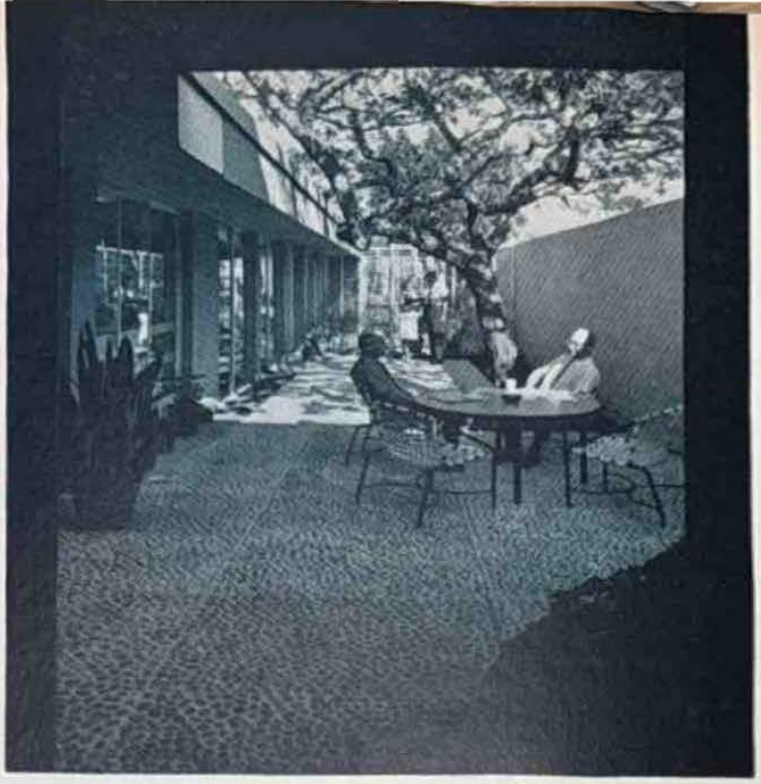
Where the Architects Hang their Hats



ARTHUR FROEHLICH & ASSOCIATES

Architects and Engineers

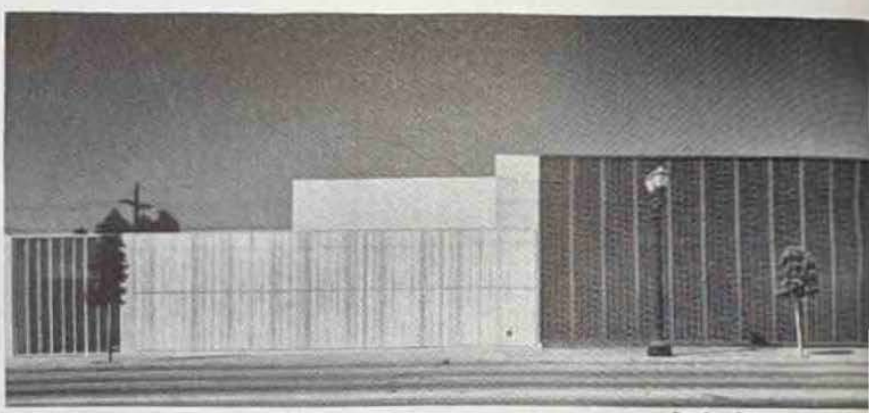
Beverly Hills, California

WHEN THIS FIRM needed more space and wanted a more inviting showpiece for its product—which, of course, is good architectural planning—it simply turned its old well-located quarters inside out and rebuilt.

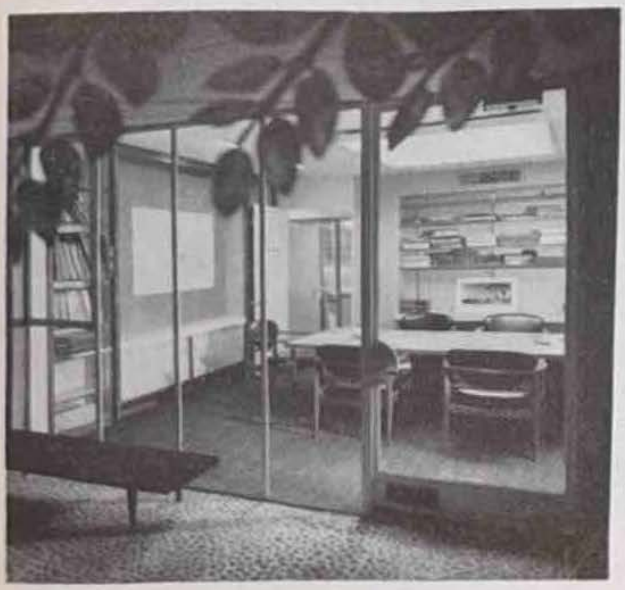
The results: An imposing entry facade on what formerly was the back side of the building, and a wonderfully inviting courtyard in what was the old entry area.

Betwixt and between, an impressive reception area, offices, conference rooms and the drafting areas, most of them having access to the courtyard through glass doors.

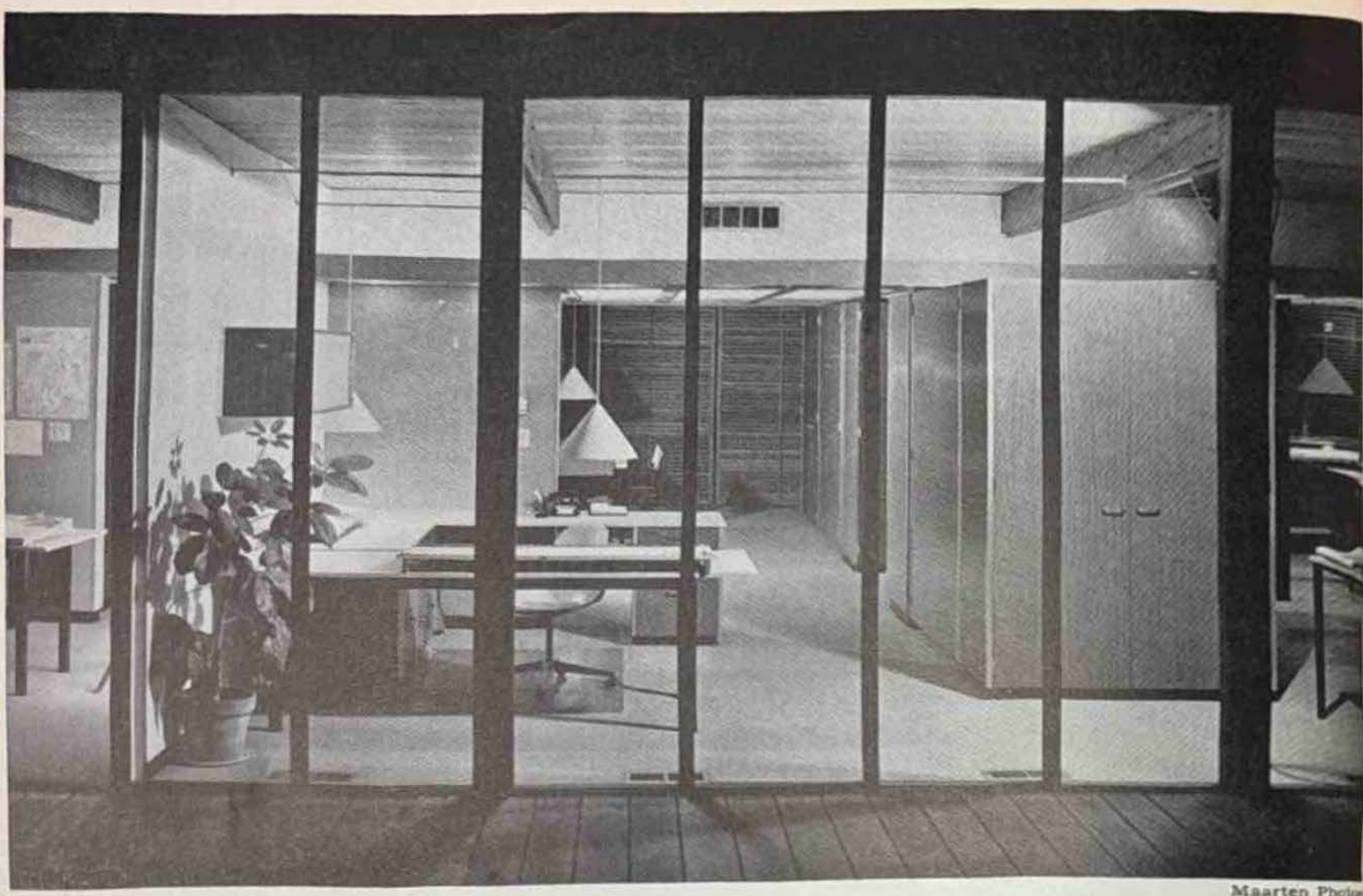
Despite the emphasis on opulent fittings so necessary to the Beverly Hills business climate, the expanded space and refurbishing was accomplished on a relatively non-extravagant $100,000.



Jack Laxer photos

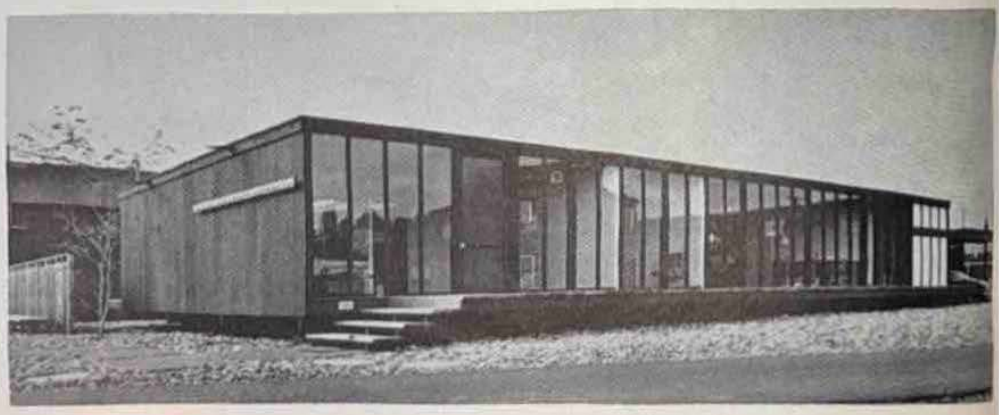


A sampling of small commercial structures



Maarten Photo

Showcase Office for Owner's Produ



OFFICE
TACOMA MILLWORK SUPPLY CO.
Tacoma, Washington

Mary Lund Davis and Allan Bucholz
Architects

THIS LITTLE OFFICE BUILDING is plain and unspectacular from the distance (after all, you'd hardly want a Taj Mahal in a cabinetworks yard), but its simple, cantilevered lines are pleasing, and on closer approach it opens into a splendid setting for the utilization and display of its company's products.

The company management is composed of registered architects with the desire to build for the approval of the professional architects who specify their products.

In just 2,000 square feet they provided for a reception room, management, bookkeeping, estimating and sales offices, room for four draftsmen, blueprinting room and coffee room . . . yet they attained an aura of openness, if not absolute spaciousness. Floor to ceiling glass along one length of the building increases the sense of space in relatively small working areas, and cantilevered decks outside the glass project the interior space.

The entire building is carpeted, and with the longitudinal dropped ceiling panels of acoustical tile, the entire space is free from distracting sounds. A colorful abstract painting panel punctuates the view along the main corridor and screens the drafting room effectively.

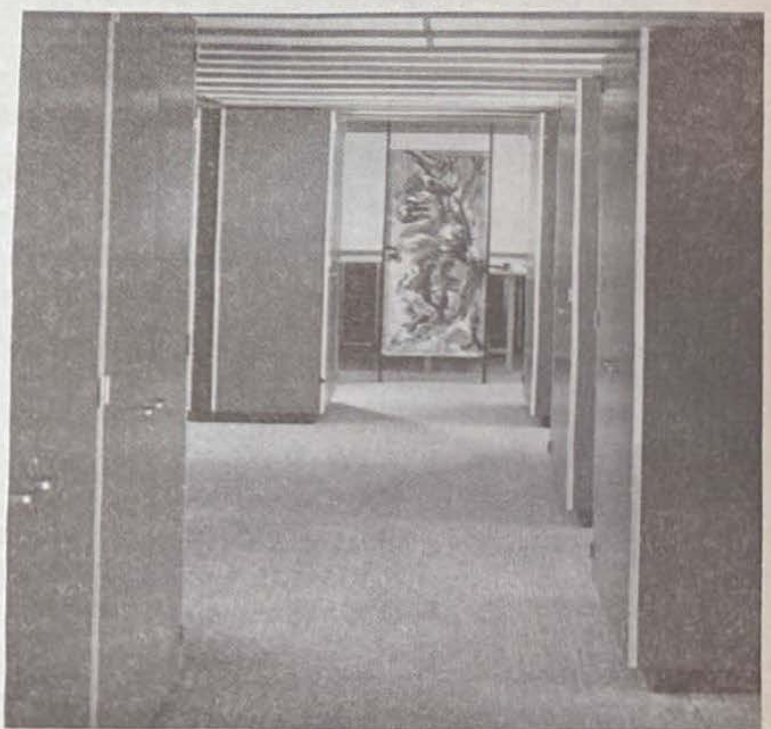
The structure is post and beam framing, with a unique use of wood window frame panels, the jambs of which join to form columns carrying double 2x10 beams on plywood gussets, all glued and bolted.

Monitor cabinets, the product of the company, are worked into the building in every manner possible and are particularly functional where they actually form a divider along the main corridor. They are finished in cherry grain high pressure plastic laminate, with vertical corners trimmed in aluminum angles.

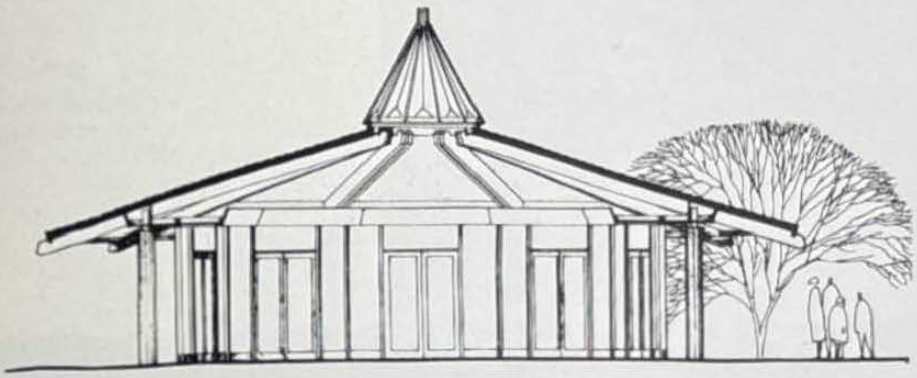
All exterior surfaces are stained black, with the exception of white plastic laminate panels set into frames to screen the printing and storage room. Interior furnishings provide additional highlights of color and contrast.

Cost of $20,000 includes a double air-to-air heat pump air conditioning system designed to serve two zones. There are no ventilating windows in the building.

chitectural Cabinetwork



Stimulating the Urge to Buy . . .

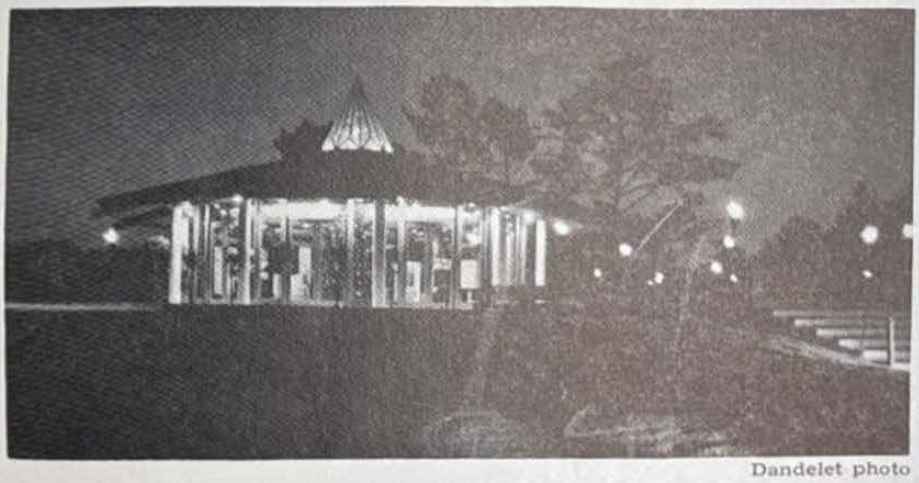


As a sales pavilion for a large homes development, this interesting structure has to serve a dual purpose . . . It is the beacon for the entire subdivision, and it provides an environment where sales conversation can be concluded successfully.

The design combines in form and concept the restraint and purity of a classical approach, but in materials and detail it has the informality and warmth of a residential scale.

Transparent enclosing walls are marked by free-standing concrete columns that form the 10-sided plan. The form is repeated by the outline of the hipped shake roof, terminated by a pyramidal skylight. Paired beams, held at their focus by a compression ring, radiate from the center to support the roof. The beams are tied at the perimeter by a continuous steel tension bar so that the columns receive only a vertical loading.

Materials were selected for warmth and integrity. Concrete columns are sandblasted to develop a special aggregate pattern; redwood and cedar have been left to weather; glare-resistant grey glass forms the walls, and the floor is in grey tones of terrazzo.



Dandelet photo

Douglas Simmonds Photo

BUILDING TRADES CENTER
Santa Barbara, California

Arendt/Mosher/Grant
Architects

Peter Davidson & Son
General Contractor

Where Restraint Achieves Dignity

THIS HEADQUARTERS FOR THE BUILDING INDUSTRY exemplifies—as it should—much that is good both in building and in design. Its clean, open lines lend a restrained dignity to its neighborhood, achieving a stature for the industry far greater than would a more monumental type of building. Quality of detail and workmanship is evident even in these small scale photographs.

The building accommodates the several related building craft unions under one roof, with independent units for each union, but with a common dispatch hall, courtyard waiting area and recreation-meeting auditorium.

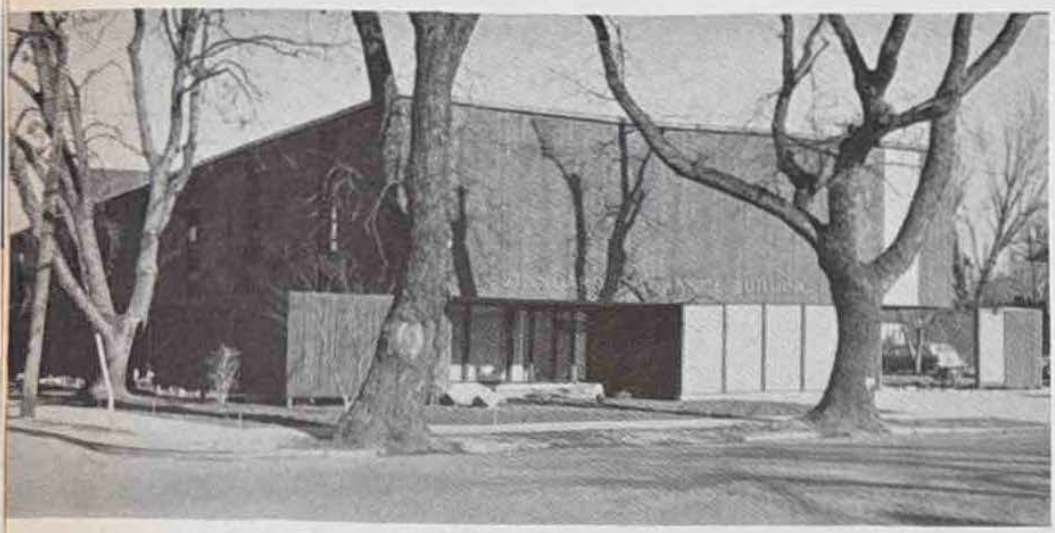
Each union has a private waiting area, secretarial space and private offices.

For income purposes, the building further serves a community need by providing its auditorium for public meetings. The auditorium opens onto the central court, which is screened from the street and used for before-and-after-program socializing.

Construction is wood post and beam, with concrete slab floor, wood second floor, wood deck roof. Walls are reinforced concrete masonry. All outside doors are slimline aluminum storefront type. Walls are sound insulated with rock wool batts, and the interior finish is putty coat and acoustical plaster.

The area of 15,420 square feet, including covered walkways at half-footage, cost $270,000, including gas fired hot water heating in the office wing and air conditioning in the auditorium wing.

Landscaping, which adds much apparent charm to the court and street side, is by Jack E. Leaman, landscape architect.



STANDARD INSURANCE CO. OFF
Eugene, Oregon

Wilmsen, Endicott & Unthank
Architects

Armin Richter & Associates
General Contractor

Maryl Lorish
Landscape Architect

Wood Products Dominate in the Oregon Timber Country

As MIGHT BE EXPECTED in a land where the number one product is timber, Oregonians have a way with wood that is unexcelled. Faced with anything smaller than a high-rise structure, their plans turn naturally to glued-laminated structural members, wooden glass frames, wood siding, and even wooden sun screens.

Here is a simple, straightforward treatment of a two-storied income office building housing its parent company and various rental units. It is located in a semi-residential district and adjacent to a one-story wood dental clinic building with which the architects wished to be consistent and sympathetic. The resulting sensitive approach to the use of wood is both attractive to tenants and pleasing to the neighborhood.

The 22,000 square feet of floor space was provided quite economically for a construction cost of $313,000. The structure is Douglas fir glue-laminated wood beam and post construction for floors and roof, with sawn purlins and 2x6 decking.

The exterior is sheathed in stained rough sawn 1x4 tongue and groove cedar, while the solar screens, most prominent attribute of the exterior, are rough sawn 1x2 cedar spaced three quarters of an inch apart.

Interior materials are basically drywall construction—gypsum board, wood paneling, acoustical tile ceiling, asphalt tile and carpeted floors. The heating system is an air to air heat pump, with electrical coil standby for extremely cold weather.

ENVIRONMENT TO STIMULATE CONVALESCENTS

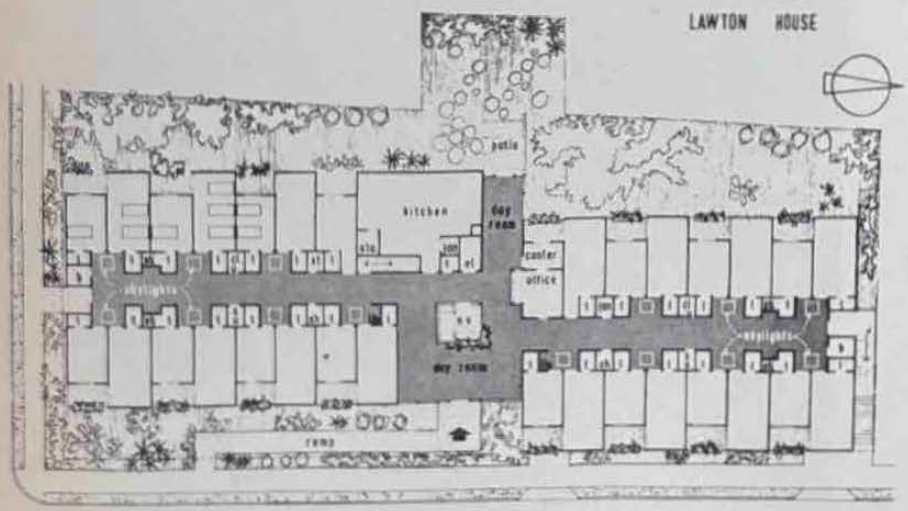
Pirkle Jones Photo

LAWTON HOUSE
San Francisco, California

Rex Whitaker Allen & Associates
Architects

Elvin C. Stendell
General Contractor

Gerald Ratto Photos



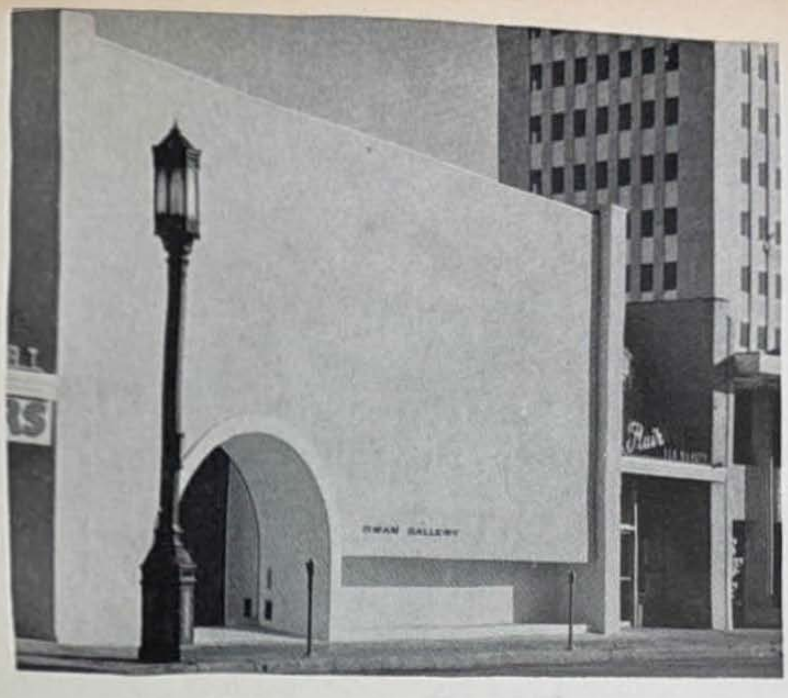
EVERY EFFORT was made to redu the institutional atmosphere of th convalescent home for 75 perso and create instead the most stim lating environment possible.

The building is long and narro with a central corridor, but it is o set at the mid-point dayroom a nurse station area to reduce the a parent length. In turn, each wi of the corridor is designed in a seri of skylit bays to shorten the corrid effect and provide natural sunligh

The nurse station and dayroo interior is treated in redwood boa and batten and redwood planter similar to the exterior of the build ing to avoid the overly asceptic fee ing common to most such hospita areas.

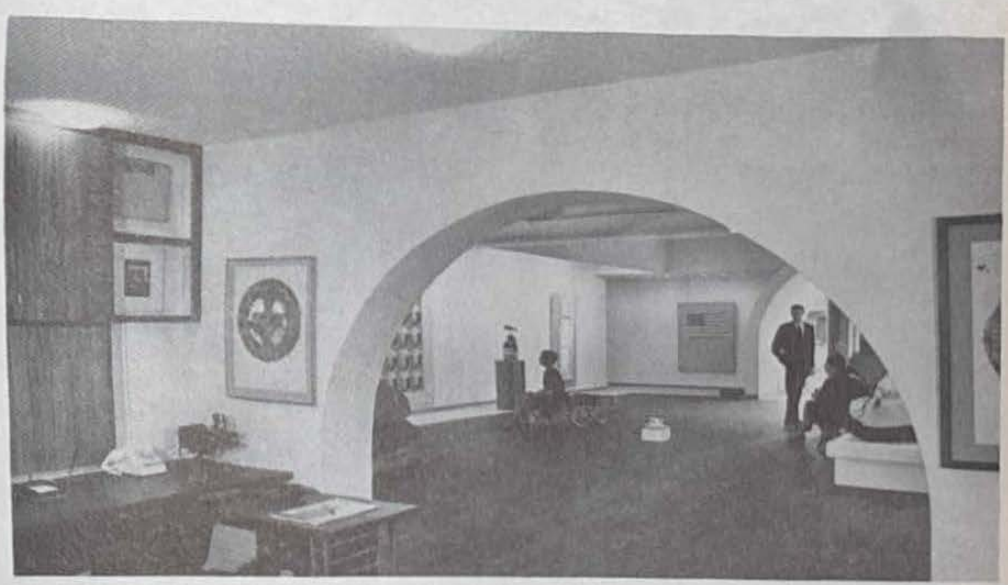
The building is elevated to pr vide maximum utilization of hig cost land, and this in turn benefit patients by giving them a bette view of street activity. There is garden in the rear with a pass through to the kitchen to facilitat serving of meals and snacks on th patio.

Construction cost of the 15,00 square foot concrete and frame building was $16 per square foot, or $4,000 per bed.



An A/W Story Without Words

Leland Y. Lee Photos



DWAN GALLERY, Los Angeles • MORRIS VERGER, Architect

SCREENINGS AND SCULPTURE ARE PLUS FEATURES OF MODEST CLINIC PLAN

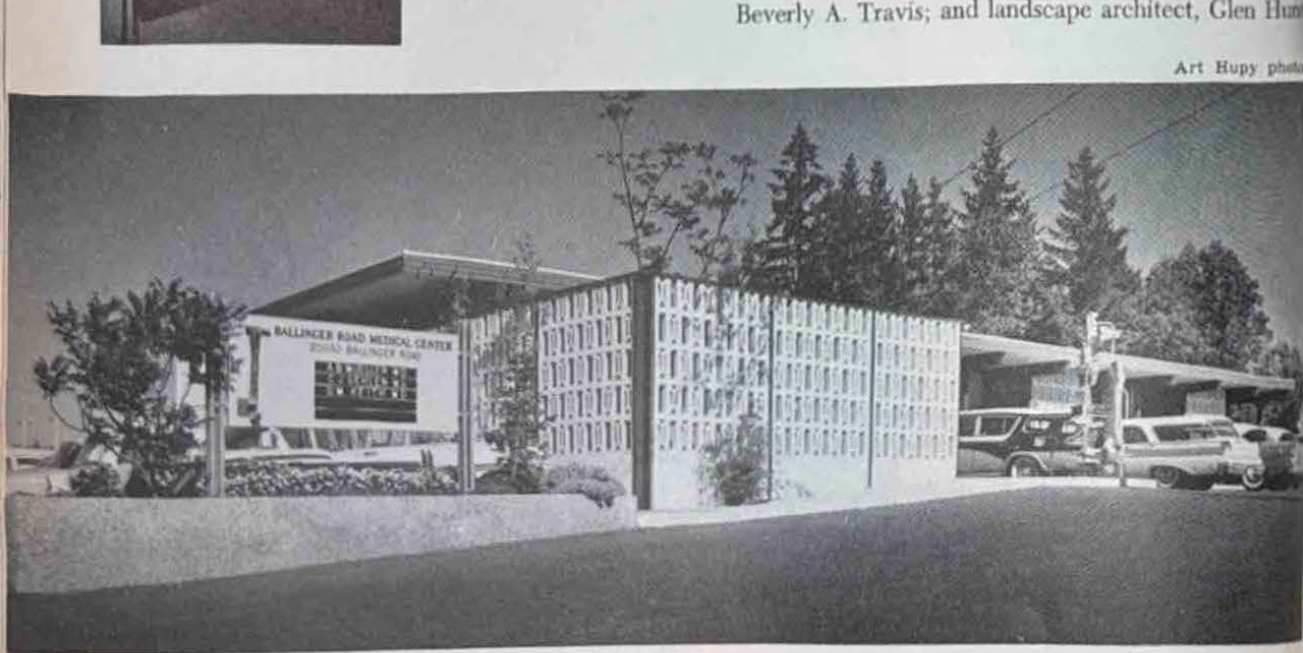
CONCRETE BLOCK SCREENS tastefully enclose and set o this small five-doctor clinic in north Seattle. Design is refreshing approach to use of block screens, which ha appeared in almost epidemic proportions throughout th west, and one of the better examples of their possibilitie

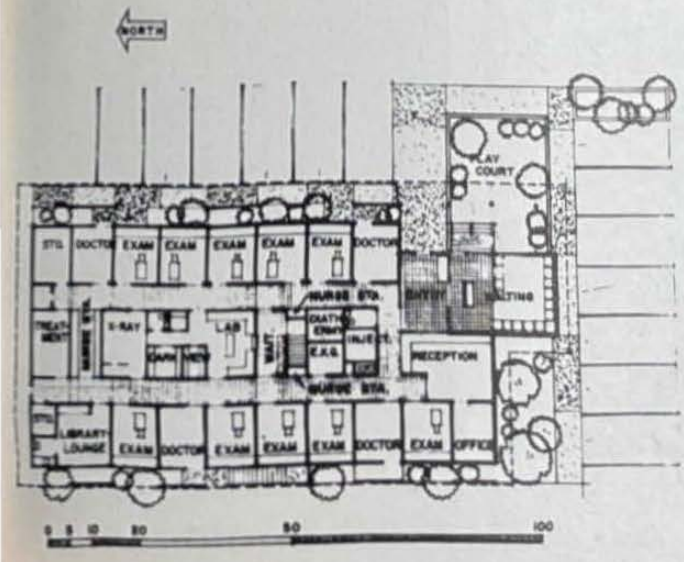
Owner doctors wanted a modern, "declinified" med cal center. Architect has translated this request in wood sculpture, window walls, gay colors and a plea ant landscaped court that take the building about far away from an austere clinic atmosphere as one ca get. A wood and metal sculpture at the entrance sets th tone. Sculptured wood is also found throughout th building in wall hangings and free-standing pieces.

In the strictly medical portion, the general tone carried over in built-in wood shelving, cabinets an pediatric tables. Office walls are paneled in teak.

Structure, which contains 5,000 sq. ft. of space, basically cedar, glass-faced panels and window wal with offset ceiling tile in waiting room and corridor Mechanical engineer was Kane & Ervin; structural eng neer, Anderson-Bjornstad-Kane; electrical enginee Beverly A. Travis; and landscape architect, Glen Hun

Art Hupy photo





BALLINGER WAY CLINIC

Seattle, Washington

Dan F. Miller, architect

Richard N. Phillips, general contractor

Clear Span Steel Frames Built with Standard Rolled I-Beams

. . . save time and money

CLEAR SPAN CONSTRUCTION at a cost no greater than simple post and beam construction is possible with a new prestressed rigid steel frame method devised by Robert A. Schick, Seattle structural engineer.

Tapering of beams is unnecessary, and haunches are eliminated, thus reducing the engineering and fabricating costs, and reducing the height of the building. For most purposes, standard rolled I-beams are used.

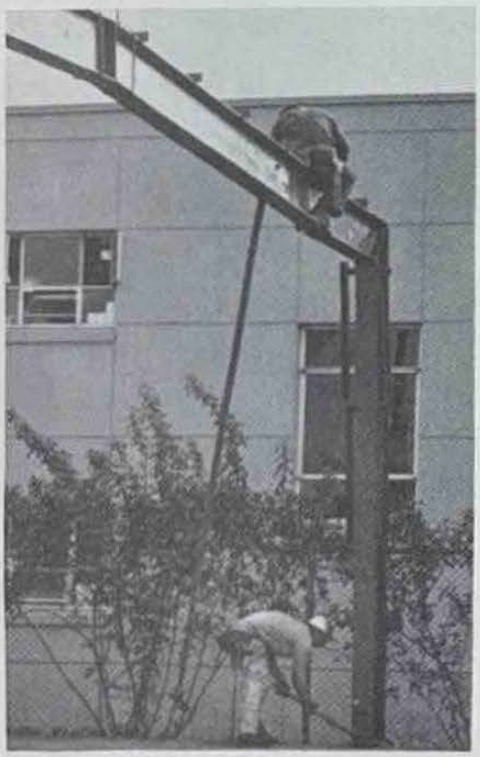
In Schick's method, short "non-haunched" haunch section are welded to columns before the columns are erected. These units are then raised upright and set on special base plates, and the cross beams are bolted across between the columns. The entire unit is then held upright by crane or shoring while the column bases are deflected outwards—by bar or jack—prior to bolting to the base plates. The outward deflection equalizes the internal stresses in the elastic frame, so that it is unnecessary to add haunch metal.

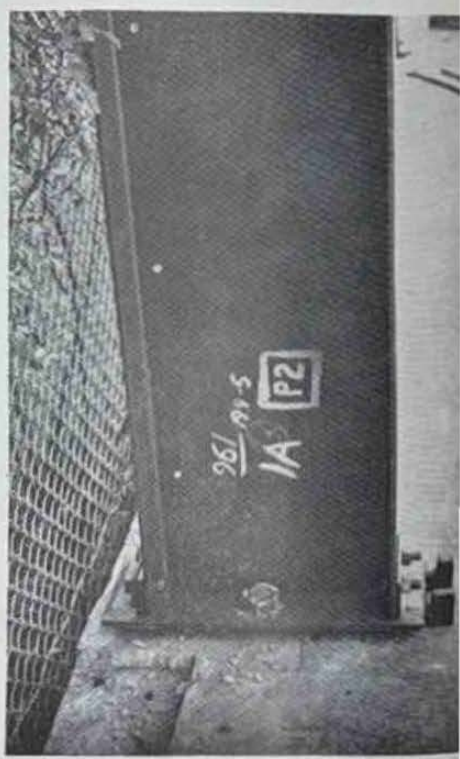
Conventional rigid frames are usually composed of tapered elements to adjust strength to the elastic loading. This is an economical use of steel, but the fabrication costs are high. A similar amount of steel is used in the Schick method, but fabrication costs are far less. Uniform section elements are used, and deflection loading of the column bases equalizes critical positive and negative moments.

In practice so far in the Seattle area it has been found that the system is compatible with all standard types of construction and may be used equally well with block masonry, tilt-up concrete, all steel or all wood construction. It is ideal for heavy concentrated loads such as result when cranes and hoists are used inside the building. The prestressing reduces thrust on foundations and provides for full elastic action over the full range of design loading, especially suitable where fatigue or permanent deflection may enter design considerations.

McDowell photo

Shop for B & G Machine Co., Seattle, is framed with stock steel beams. Prestressing eliminates tapers and haunches. Columns and welded shoulder are erected and beam sections bolted across. At bottom left, workman deflects column outward with bar 5/8ths of an inch prior to bolting to special base plate shown below, right.





A plea for standardized data sheets . . .

How Much Do You *Really* Know about the Materials You Specify?

Herbert H. Johnson, FAIA

Chairman, Information Advisory Subcommittee
Building Research Institute
Planning Committee on Plastics in Building

A long-felt need for improving methods of presentation of data concerning plastics, and a standardization of the nomenclature involved has prompted the Building Research Institute to prepare a format for a standard data sheet. Our main criticism, and one which we hope the Planning Committee will take under consideration, is that such data sheets never tell you where NOT to use specific products. Architects tell us that this is a badly needed aid and cite as one example vinyl tile not used below grade slab except with special considerations.

Have you ever specified a material by trade or generic name without really knowing what you specified, or having specified it, found that you were not really acquainted with its properties? I am sure that we have all had this experience to some degree. In these days of insistence on professional competency, it behooves the architect to be more demanding in his investigation of new and old materials. Of all the products, we are concerned here with the large percentage that are made of plastics.

Ever since the chemists started producing organic polymers, many industries, particularly the building industry, have gained new materials. This has opened many new horizons to the architect, and freed his design in many directions. At the same time, it has presented the architect with problems, the chief of which is learning more about these new products.

Plastics have been in use for many years, and their use has been accepted to the point that we have forgotten that they are plastics in some cases. The uses and limitations of these materials have been established through long testing and experience. There are many, many others, however, developed at an astounding rate during and after World War II, that have not been "wrung out" in the demanding world of usage. How are we going to make certain that the material we specify is capable of performing the job for which it is specified? How are we going to be sure that we get the material we specify? We must not only learn more about the materials ourselves, but we must ask and even demand that the producers, manufacturers, fabricators, and suppliers furnish us with proper information.

To this end, the Planning Committee on Plastics in Building of the Building Research Institute has undertaken the task of preparing a format for a standard data sheet for reporting product information. It is designed to assist not only in the use of plastics, but more importantly in their proper use.

A copy of the format for the standard data sheet is included with this article. The only way that the use of the standard data sheet can come about is for the architects, engineers, and other users to demand that the manufacturers, fabricators, or suppliers, of these various products furnish them with the data called for on the standard data sheet along with their usual descriptive information. We feel that if enough of us demand its use, it would soon be generally adopted.

STANDARD DATA SHEET FORMAT FOR PLASTICS USED IN BUILDING

Description of Product
1. Trade Name & Manufacturer
2. Type of Material
3. Plastics Used
4. Use of Product

Physical Properties
1. Strength
2. Dimensional Stability
3. Fire Resistance
4. Vapor Permeability
5. Chemical Resistance
6. Acoustical Properties
7. Light Resistance
8. Light Reflectivity & Transmission
9. Thermal Transmission
10. Electrical Characteristics
11. Aging
12. Toxicity
13. Compatibility

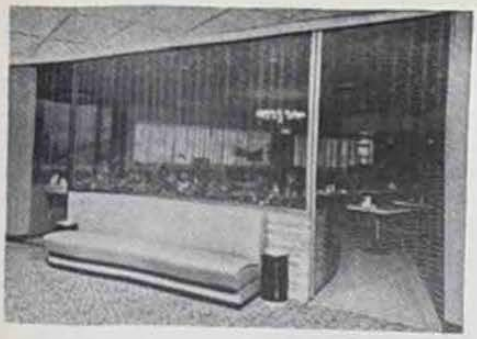
Design Criteria
1. Size, Thickness, Weight
2. Finish, Color
3. Workability
4. Tolerances
5. Limitations
6. Adhesion & Cohesion
7. Properties of the Complete Assembly

Installation
1. Surface Preparation
2. Description of Process
3. Methods of Attachment
4. Equipment Required
5. Limitations

Maintenance
1. Preventative Inspection
2. Soiling & Cleaning
3. Repairing & Replacement

Economics
1. Material Cost
2. Installation Cost
3. Insurance Cost
4. Maintenance Cost

Case Histories
1. Installation & Check Dates
2. Appearance
3. Total Costs
4. Other Properties



mesh wall divider

A custom drape effect is provided in the mesh decorator room dividers, available in steel wire or aluminum mesh, the latter anodized in a wide variety of decorator metal tones. Ease of installation and movability are provided with freedom of air flow guaranteed by the mesh walls without sacrificing decor. The walls add versatility, color and flexibility to hotels, motels, hospitals, restaurants, cocktail lounges, stores, offices, and even outside areas such as patios, gardens and swimming pools. The drapery walls are available in one-eighth, one-quarter and half inch mesh.—Pacific Drapery Walls (A/W), 2235 S.E. 11th Ave., Portland, Ore.

silver window

A heat-reflecting safety window, Silver Reflectovue, said to exclude 69 percent of solar energy, transmits only 20 percent of the light that reaches it, enabling control of glare without use of shades, screens, awnings or overhangs. Interior visual reflectivity is subdued so as to be roughly equivalent to regular glass. Interior radiant heat reflectivity is the same as on the exterior to assist in containing radiant heat within the building during heating season. When looking out in daylight, visibility is good; the glass operates on the principle of the one-way mirror, with the lighted side being visible.—Laminated Glass Corp., (A/W) 9797 Erwin, Detroit 13, Mich.

rigid roof panels

Two new Rigid-Vinyl roofing panels have been designed especially for use on carport roofs, patios and for commercial and industrial skylighting, where they afford additional rigidity and sturdy assembly. Both panels are extruded in rigid-vinyl .055" thick, which weighs approximately eight ounces per square foot. They are available in translucent light green only, and come in 8', 10' and 12' lengths.—Navaco Co. (A/W), 601 Hall St., Dallas, Texas.

institutional lavatory

Designed specifically for use in schools, dormitories, hospitals, factories, office buildings and commercial establishments, the new 18-gauge stainless steel lavatory is a wall-mounted unit fabricated of type 18-8 302 nickel stainless steel. The lavatory, Model A-33338, features an integral apron on three sides, sloped backsplash and rounded corners for easy cleaning. — Just Manufacturing Co. (A/W), Franklin Park, Ill.

tough floors

Stiletto heels that indent initially but allow floor covering to recover within 24 hours; a cigarette allowed to burn out on tile whose surface it will not permanently affect; ink, grease, lipstick, traffic stains easily removed with normal maintenance—these are the claims being made for new Vistelle Corlon Tile. The material is compounded with DuPont's Hypalon which offers resistance to chemicals, stains, burns and permanent indentation. It is resilient, quiet underfoot and tests in actual installations indicate that it has outstanding resistance to crazing or fading. Graining in the design extends through entire thickness of the tile. Available in ten colors styled for commercial and institutional interiors, Vistelle is manufactured in ⅛" gauge in tile sizes 9 in. x 9 in. and 12 in. x 12 in.—Armstrong Cork Co. (A/W), Lancaster, Pennsylvania.

chrome bath accessories

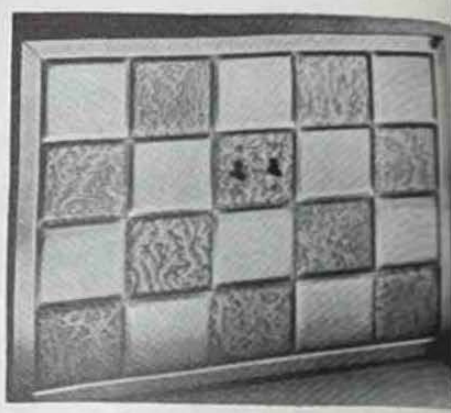
Designed to blend with Del Mar's recessed fixtures, a new line of surface-mounted chrome bathroom accessories adds a modern look for towel bars, towel rings, tissue holders, soap dishes and toothbrush and tumbler holders. A concealed screw series can also be ordered.—Del Mar Manufacturing Co., (A/W) P. O. Box 1517, Gardena, Calif.

low-cost interior finishes

Two new woodgrain panels of interior hardboard paneling have been factory-finished for beauty, durability and easy maintenance. Teak Woodgrain is a rich, dark-toned panel with color-matched random grooving. Elm Woodgrain is light-toned with uniform groove spacing. Each are available in 4'x7' or 4'x8' sizes. Panels may be applied to studs or furring strips with color-matched hardboard nails, or to existing walls with adhesive.—The Celotex Corporation (A/W), 120 S. LaSalle St., Chicago 3, Ill.

pattern and color in steel

A new technique which imparts highly decorative dimensional patte to stainless steel surfaces, softens t metallic look of large areas, reduc light reflection, and virtually elim nates maintenance problems due scuffs, scratches, fingerprints, is n being offered. "Texture-Stainless" available satin-rolled, satin-highlig ed or colored and highlighted. Colo which include black, red, white, bl and green, are added to pattern d pressions and baked on at custome option. Color remains in the depress area, pattern being depressed appro



mately .005" into surface. At pres sheets are recommended only for terior use in areas such as curt wall panels, mullion covers, door p els and trim, window frames, bu ing entrances, column sheathing, vator doors and cabs, and in ar subject to heavy use such as ph booths, water fountain enclosure Republic Steel Corp. (A/W), Cle land 1, Ohio.

new floors over old

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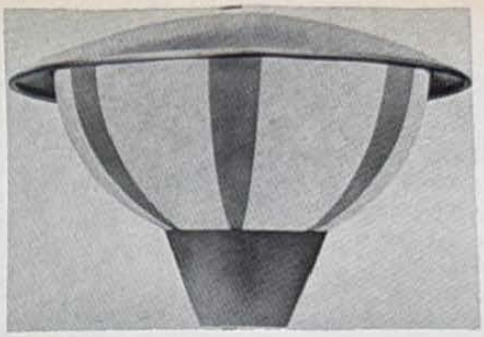
flexible lamp

Electroluminescence—the direct conversion of electricity to light—has been studied for decades. The first commercially available product of this research has been produced by General Electric, using a special translucent plastic manufactured by the Minnesota Mining and Manufacturing Co. The plastic is formed into flexible panels which can be directly connected to a circuit without the need of auxiliary equipment. GE's flexible lamp is designed to be a supplementary light source; it is hoped that further experimentation will result in a high-efficiency lamp competitive with standard light sources.—Minnesota Mining & Manufacturing Co., (A/W) 2501 Hudson Rd., St. Paul 19, Minn.

hardwood tiles

For the parquet look without parquet price, hardwood tiles have been designed in pre-finished oak, hard maple, white ash, and black walnut. The tiles are made of strips wired together in a patented process, and are laid like resilient tiles. Feature strips of contrasting wood can be laid to set off the tongue-and-groove tiles. American Lumber Corp., (A/W), Church & Bermuda Sts., Philadelphia.



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Sound Control, Illumination, Air Distribution (AIA 39-B, 31-F, 30-F): includes over 475 varieties of acoustical products, ranging from common perforated tiles to advanced integrated acoustical - ventilating - luminous ceiling system. Complete data is given on sound absorption, sound attenuation, light reflectance and fire ratings of each product. An entire section is devoted to "privacy of speech" products and components. All products are also rated for ease of maintenance, limitation of use, cost. Catalog 63, 44-pp., includes dimensions, installation, performance data. —Elof Hansson, Inc., Acoustical Division, 711 Third Avenue, New York 17, New York.

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The Church Spire: develops the design of spires from earliest known antecedents, through Gothic, Restoration and Early American periods, to contemporary design. The 44-page, two-color brochure contains step-by-step photographic description of spire erection and a check list for determining spire requirements. There are photographs and drawings of representative designs that surmount church and chapel roofs throughout the United States. Architects may obtain complimentary copies upon letterhead request, otherwise cost is $1.95 per copy.—The Overly Manufacturing Company, 574 W. Otterman St., Greensburg, Pa.

Design Applications of Kalwall (AIA 17-A): features translucent wall systems for single-story and high-rise buildings; three sheets are offered, covering spans over 13 ft. 9 in., spans up to 25 ft. 2 in., and multiple-story construction. — Kalwall Corporation, 88 Pine St., Manchester, N. H.

Precast Concrete Units Form Cantilevered Floor (AIA 4-K): describes how the use of precast concrete columns and beams and precast concrete floor and roof slabs provide unusual architectural style featuring cantilevered second floor classrooms. Detailed drawings illustrate how the precast frame supports floor and roof deck. Illustrated is Rutherford B. Hayes high school, Delaware, Ohio. 6-pp.—The Flexicore Co., Inc., 1932 E. Monument Ave., Dayton 1, Ohio.

Tempered Glass: gives information on Transpan, new tempered heat-strengthened safety glass, with added advantages of color and pattern. Precision patterns of permanent ceramic colors are silk screened to back of polished plate safety glass. Available in 22 standard colors, Transpan can be custom screened to reproduce any pattern specified. Folder discusses product and applications, gives color samples, technical data and architectural specifications.—Virginia Glass Products Corp., Box 1231, Martinsville, Virginia.

Quiet, Economical Ventilation: performance data presented in easy-to find tabular form, with outline drawings giving important layout dimensions, are illustrated in 4-page brochure describing the Model G Ventura fans for commercial and public building ventilation applications. Bulletin 6414. —American-Standard, Industrial Division, Detroit 32, Michigan.

Spectator Seating: describes vari kinds of mass seating, complete w architect specifications, capaciti dimension charts. Included are fold bleachers, electrically operated m chanical folding bleachers, steel de grandstands, movable bleachers, divi ing curtains. 12-pp.—Seating Divisi Berlin Chapman Co., Berlin, Wis.

Luminous Ceilings: contains comple ordering and installation instructio for two completely new luminous ce ings—the floating luminous and t wall-to-wall. Easily installed, they c be adapted to fit any room. Heat panels for both styles add warmth a comfort; concealed ventilating f provides ventilation as desired. Nig light is included for safety and co venience. 8 pp.—Emerson Electr Mfg. Company, 8100 Florissant Av St. Louis 36, Missouri.

Vinyl Tile Colors: entire color li handsomely reproduced illustrati natural, bone, sand, biege, avocad terra cotta, eggshell, cream and wh vinyl flooring. Detailed informati on flooring included. 4-pp.—Amti Trenton 2, New Jersey.

Business Furniture Collection: co tains detailed illustrations of comple executive office furniture line inclu ing desks, side storage units, corn tables, conference tables, executiv chairs and side chairs. 12-pp.—Hiebe Inc., 17001 Yukon, Torrance, Cal

SoundLock Acoustical Ceiling Pane (AIA 39-B): describes a new type acoustical product which uses th principle of cellular core constructio in its design; panels are available sizes up to 2½ x 6 ft.; 8 pp.—Th SoundLock Corporation, 210 Skok Valley Road, Highland Park, Ill.

Recessed and Surface Incandesce Lighting (AIA 31-F-2): offers com plete information on twenty-thr different architecturally applicab product lines. Detailed data includ unique innovation in shortcut foo candle tables showing readings at variety of heights and diameters. Di tinctive new solid walnut frame wit polished brass trim is introduced fo an elegant touch in either residenti or commercial applications. Othe new units include an expanded grou of satin finish, die cast aluminum out door fixtures for ceilings or walls hand blown glass pendants for com mercial interiors; concrete pour hous ing recessed fixtures. Catalog 2006 40-pp.—Moe Light Division, Thoma Industries, Inc., 207 E. Broadway Louisville 2, Kentucky.

MANUFACTURERS/SUPPLIERS

• **Filon Corp.:** Several promotions and an expansion plan have been announced by the Hawthorne, Calif., firm, manufacturers of translucent fiberglass building panels. Barry A. Gross has been promoted to western division sales manager with offices at company headquarters; C. E. (Sam) Bass will assume duties as southwestern regional sales manager at the same location. Neil Anderson has been named northwestern region sales manager, Seattle, with western district offices in Los Angeles being headed by Frank Malone; San Francisco by Malcom Payne, and Denver by Herbert Fulkrod.

Also announced by Filon is the opening of six new warehouses during 1963, designed to further improve prompt availability of Filon products. The first began operations April 1 in Seattle and will service the northwestern region including Washington, Oregon, Montana, and the northern portion of Idaho.

• **Waste King Universal:** The newly-created post of director of marketing research has been filled by Howard E. McDonald, and Thomas B. Harrison has been named advertising and sales manager, according to Bertram Given, president of the Los Angeles corporation.

• **Custom-Aire Products Div., Pacific Industries, Inc.:** Henry L. McIntyre, president of Pacific Industries, Inc., has announced the appointment of Oliver H. Gardner as vice president-general manager of Custom-Aire Products, the heating and air conditioning division of Pacific Industries. James Tuck has been appointed vice president of Pacific Industries, with headquarters at the corporate office in San Francisco.

• **Soule Steel Co.:** Wilbur A. Tedford has been appointed vice president of the firm at Los Angeles where he will be responsible for executive management operations.

• **Kaiser Gypsum Co., Inc.:** Appointment of Brent F. Crosby as area sales manager, Northern California sales division, is announced by Hugh L. Crabb, sales manager.

• **Caloric Corporation:** James C. Putnam has joined Caloric as Northwest District Manager for the Topton, Pennsylvania firm. He will contact accounts in Oregon and Washington from his Seattle location.

• **Nova Industries:** A new corporation, the firm has been granted exclusive license to manufacture and distribute Hexcel Honeylite, luminous ceiling systems of expanded aluminum honeycomb. D. Paul Bailey, president of the company, was formerly sales manager, commercial products division of Hexcel Products, Inc., Berkeley. Other officers of Nova include Jon Clendenin, vice president and treasurer, and Knut Buset, vice president and secretary. Immediate activity will be devoted to marketing of Honeylite, but plans are being made for the new firm to engage in development of related products and new applications for the lighting industry. Nova Industries will be located at 699 Castro St., San Leandro.

• **Portland Cement Association:** The addition of Leo P. Nicholson, formerly of Chicago, to the Los Angeles District office staff, has been announced by Warren G. Burres, district engineer.

• **Fibreboard Paper Products Corp.:** E. W. Carey, president of the San Francisco company, announces the appointment of William Geisler as vice president in charge of manufacturing, with offices at the headquarters plant. At the same time, announcement was made of the promotion of Richard C. Manchester to the position of merchandising manager, roofing.

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Business data on page 34

ABOUT THIS ISSUE: It is unfortunate that so many people are at war with their homes, even their expensive custom homes, struggling with their daily tasks and pleasures against the built-in obstacles of abodes that were designed with shelter in mind, rather than living. Here we are presenting a few residential buildings that break away from the conventional—even from the "unconventional conventional"—to contribute through design to special ways of life.

Little children love to have turtles (and lizards and snakes, for that matter), so a home in Hawaii has a patio turtle pool, as well as an "outdoor" dining room and special storage niche for surfboards and three centers for adults, for children and for recreation. Page 11.

Most people who have summer cottages build smaller and less convenient replicas of their city homes and spend their weekends working to keep the lake homes shipshape. Two Spokane architects built platforms in the woods, with storage and bathroom shelters, and with kitchen units right out in the open. They can "clean house with a hose" and spend their vacations in pure pleasure. Page 24.

A bachelor built his home primarily (it seems) to display art objects—page 14, while another man with a large family and a desire for community living and optional privacy, turned to multi-level steel framing around a central court—page 21.

For an unusual method, see the locus of the focus of a parabola rolling on a straight line—page 28.

NEXT MONTH: A church, a school, an industrial building and a screamer about some Architects Who Have No Hats to Hang.

THE BUILDING MONTH

HOUSING BOOM—Permits for future home construction are running about 8% ahead of last year nationally. Housing starts rose 17% from February to March, with a generally improved economic situation being credited for a good share of the increase. Credit terms are easier to obtain, personal incomes are up somewhat, industrial production is on the rise and mortgage firms have more ready cash to lend, all of which add up to increased construction. Leading the housing boom are special programs for senior citizens, apartment construction, and a rush to complete units under way to beat proposed zoning changes and regulations in many areas. March saw 1.4 million units, the highest since the peak rate of 1.5 million set last November.

ARCHITECTURAL BARRIERS—Officials of a wide range of public and private agencies met in San Francisco recently with representatives of professional, business, industrial and religious organizations to consider initiation of joint action against "the architectural barriers" assertedly denying an estimated 2.7 million handicapped Californians free access to many of the state's public buildings and facilities. The conference, first of its kind in the state, was called by the California Joint Steering Committee on Architectural Barriers, established last year to organize state and local action to improve accessibility of public buildings. Among barriers discussed are lack of ground level entrances, heavy doors, steep stairways, inaccessible elevator controls and inadequate warnings in hazardous areas, many of which are also common sources of danger to normal individuals. An urgent request was made that immediate attention be paid to need for building design modifications.

DESIGNS FOR REDWOOD—A $1,000 contest to find the most distinctive design use of redwood has been announced by the Simpson Timber Co. The award is not contingent upon the amount of redwood used in the project—which may be as simple as a planter or a dog house or as complex as a home. Entries will be judged by a panel composed of Paul Laszlo, ASID, nationally known designer; architect Louis Naidorf, vice president of Welton Becket & Associates, and Frank Roodman, vice president of The Austin Company. Contest closes September 30, 1963. Information may be obtained from The Simpson Timber Co., 2042C Washington Building, Seattle 1.

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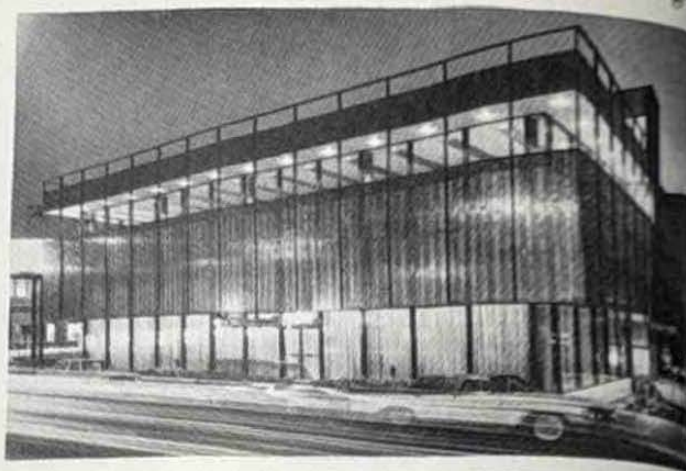
Highlights & Sideli



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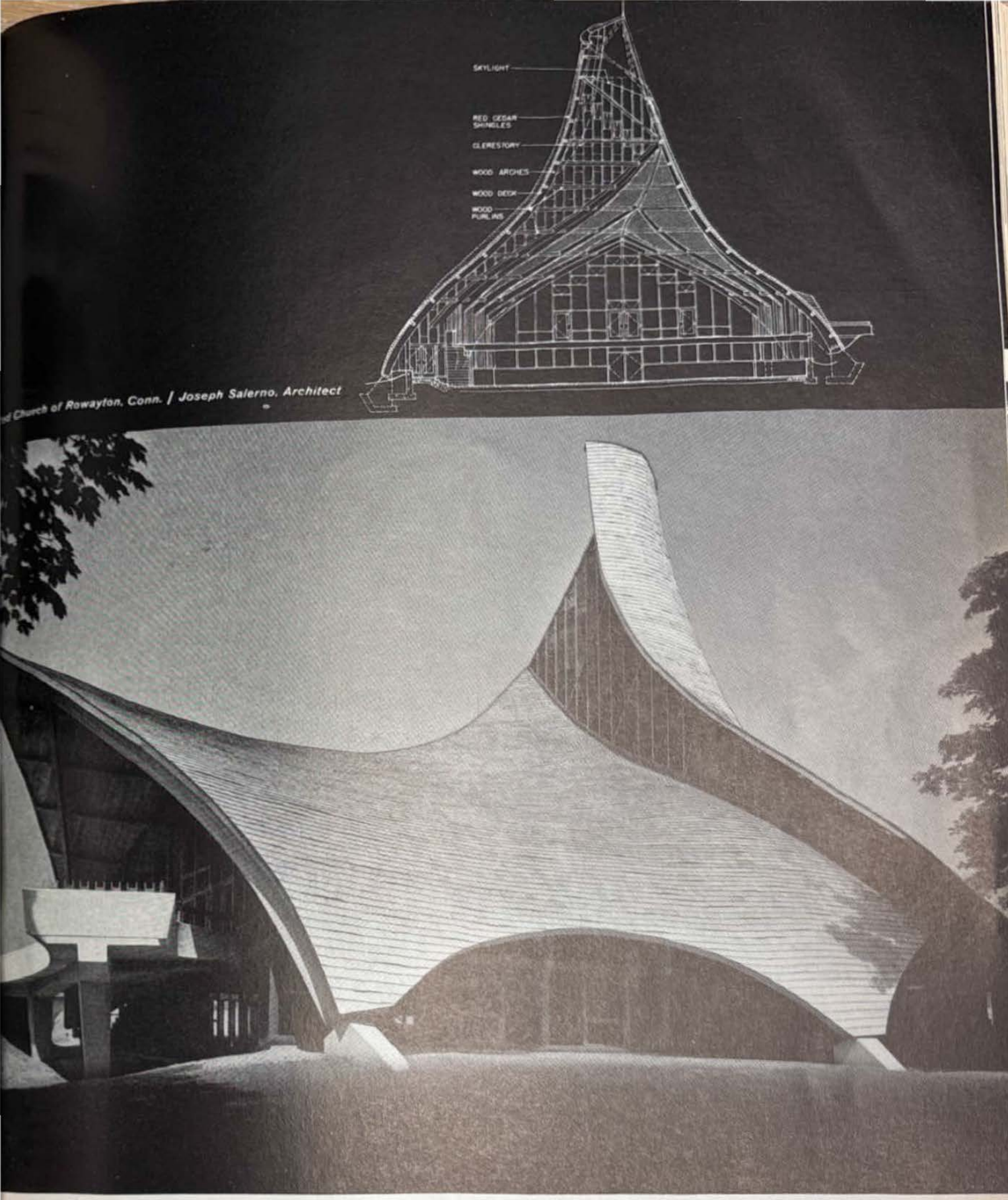

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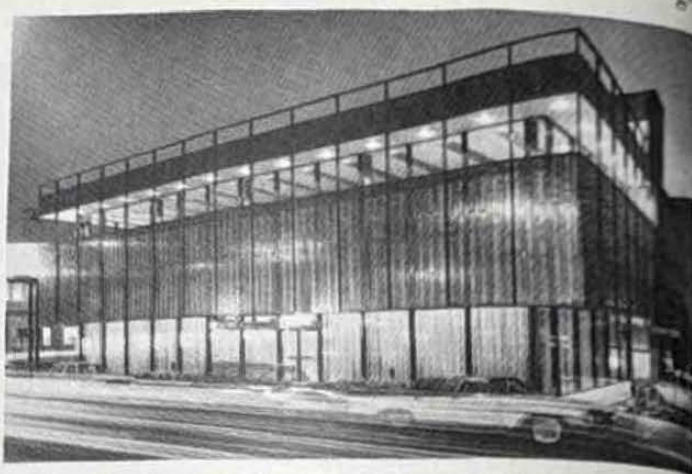

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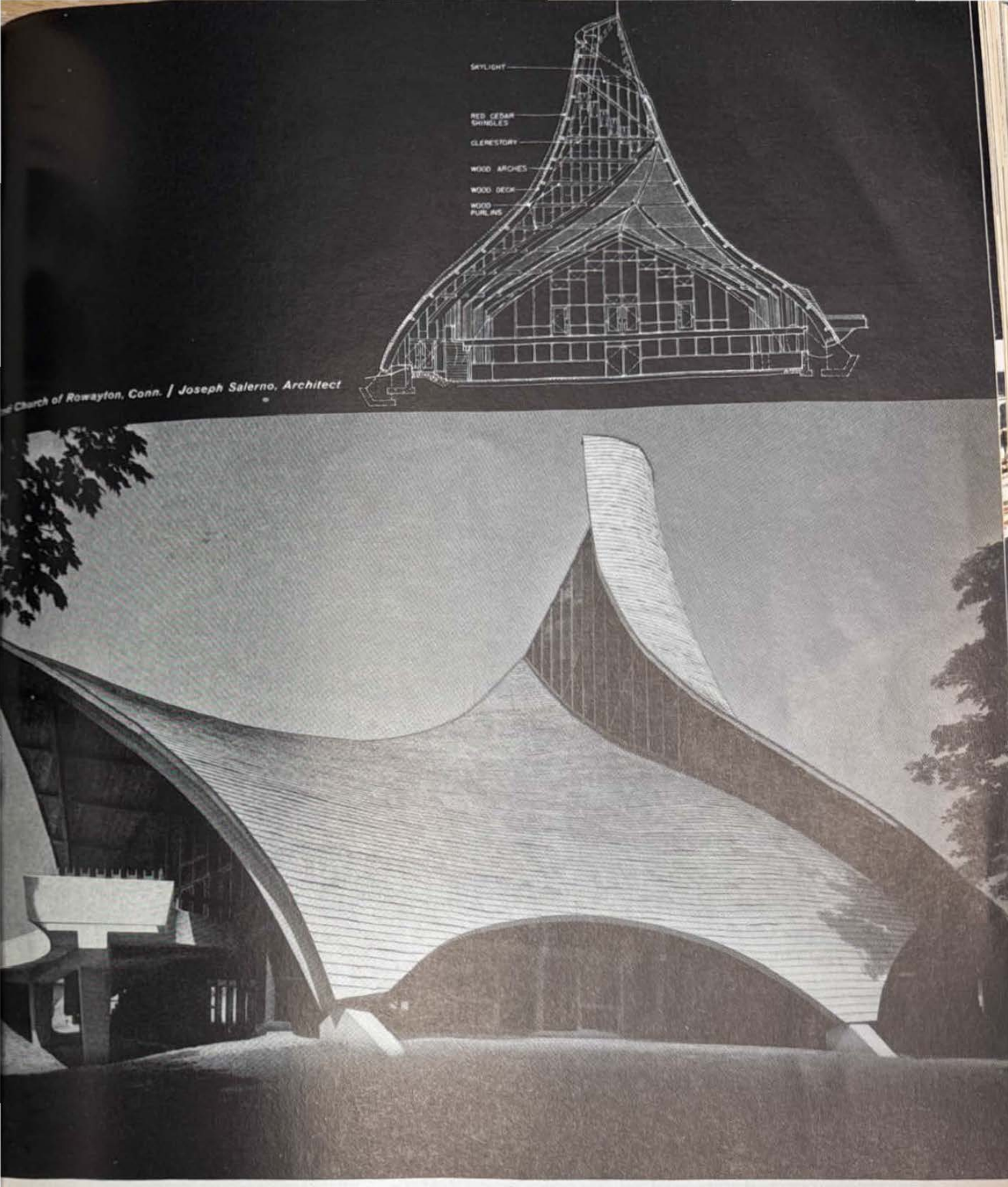


...Church of Rowayton, Conn. / Joseph Salerno, Architect

Red Cedar Shingles add strength

The visible qualities of Red Cedar Shingles – texture, color, dimension – are only part of the story on this rugged material. Cedar shingles actually add strength rather than dead weight. Durable, light weight, storm and wind resistant, such a roof is virtually maintenance free and gains beauty with the years. For information about specifications and application, write: Red Cedar Shingle Bureau, 5510 White Building, Seattle 1, Washington. (In Canada: 550 Burrard St., Vancouver 1, B.C.) **RED CEDAR SHINGLES**

THE BUILDING MONTH

HOUSING BOOM—Permits for future home construction are running about 8% ahead of last year nationally. Housing starts rose 17% from February to March, with a generally improved economic situation being credited for a good share of the increase. Credit terms are easier to obtain, personal incomes are up somewhat, industrial production is on the rise and mortgage firms have more ready cash to lend, all of which add up to increased construction. Leading the housing boom are special programs for senior citizens, apartment construction, and a rush to complete units under way to beat proposed zoning changes and regulations in many areas. March saw 1.4 million units, the highest since the peak rate of 1.5 million set last November.

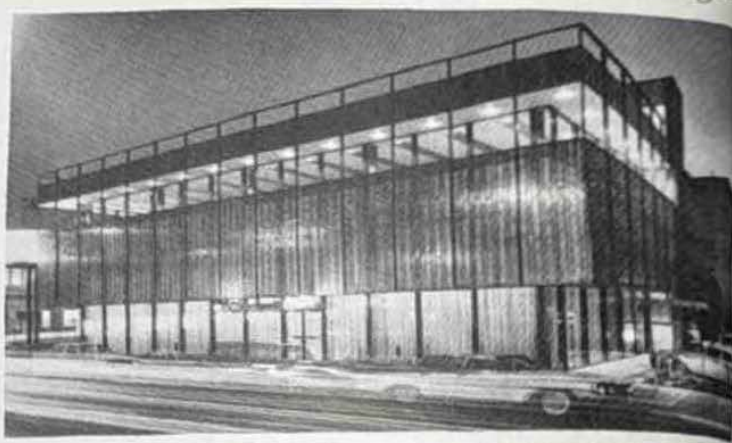
ARCHITECTURAL BARRIERS—Officials of a wide range of public and private agencies met in San Francisco recently with representatives of professional, business, industrial and religious organizations to consider initiation of joint action against "the architectural barriers" assertedly denying an estimated 2.7 million handicapped Californians free access to many of the state's public buildings and facilities. The conference, first of its kind in the state, was called by the California Joint Steering Committee on Architectural Barriers, established last year to organize state and local action to improve accessibility of public buildings. Among barriers discussed are lack of ground level entrances, heavy doors, steep stairways, inaccessible elevator controls and inadequate warnings in hazardous areas, many of which are also common sources of danger to normal individuals. An urgent request was made that immediate attention be paid to need for building design modifications.

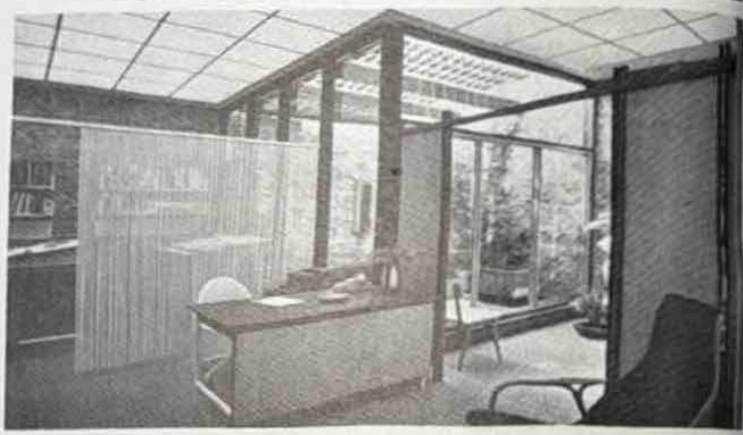
DESIGNS FOR REDWOOD—A $1,000 contest to find the most distinctive design use of redwood has been announced by the Simpson Timber Co. The award is not contingent upon the amount of redwood used in the project—which may be as simple as a planter or a dog house or as complex as a home. Entries will be judged by a panel composed of Paul Laszlo, ASID, nationally known designer; architect Louis Naidorf, vice president of Welton Becket & Associates, and Frank Roodman, vice president of The Austin Company. Contest closes September 30, 1963. Information may be obtained from The Simpson Timber Co., 2042C Washington Building, Seattle 1.

OFFICE CONDOMINIUMS IN THE WEST—Utah's State Legislature passed a condominium enabling act in February that will give Salt Lake City one of the first condominium office buildings in the United States. Melvin H. Jensen, builder and developer, with Salt Lake architect Roger Merrill Van Frank, has started conversion of the old four-story Moxum Hotel into the Security Title Building, expanding present floor space to more than twice the square footage. The Utah firm believes that this initial office building will lead to increased activity in rejuvenating older buildings for use as condominium offices. Jensen is a pioneer in this field having recently completed a $5 million condominium residence project in Salt Lake City.

Meanwhile the Washington State Legislature has passed a law permitting condominium housing that could play an important part in the urban renewal of Seattle, with the concept being applied to industrial and commercial buildings as well as residences.

Highlights & Sidelight



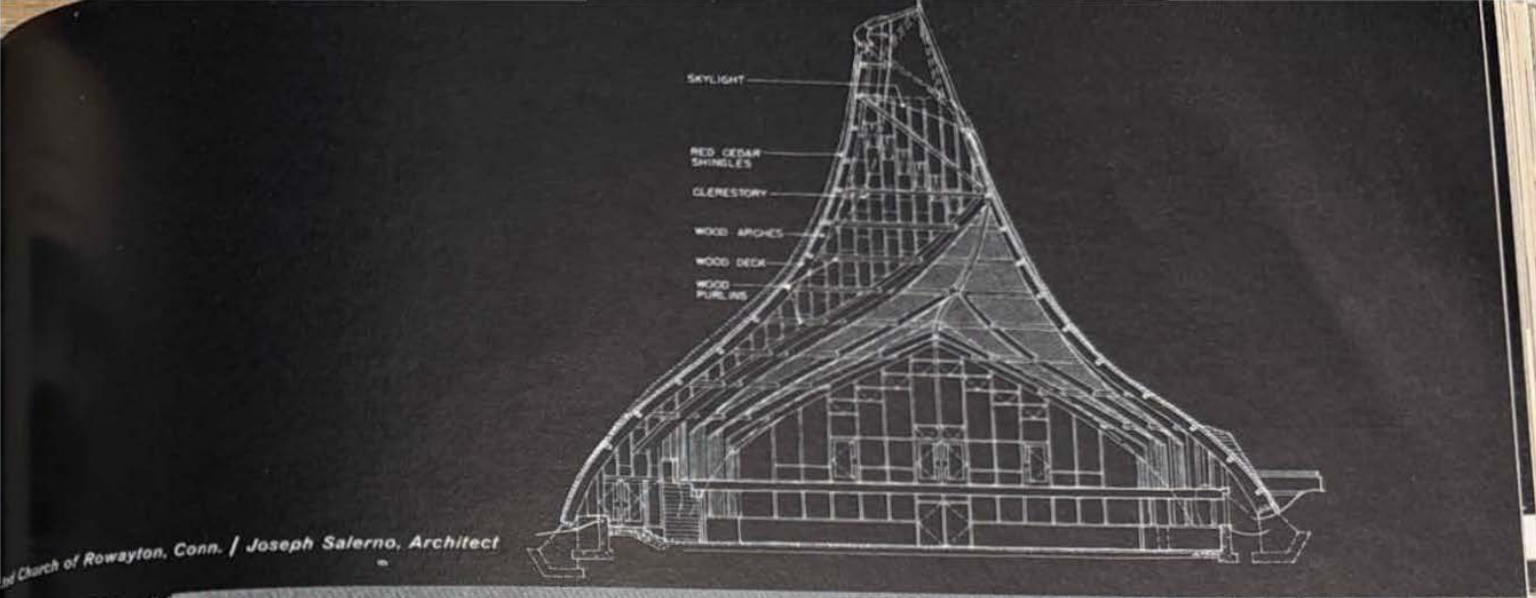


FIVE WINNERS NAMED IN OREGON PROGRAM—Two honor awards and three merit awards were given by the Oregon Chapter, AIA, in their Seventh Annual Design Awards Competition, in mid-March. Selected for Honor Awards were Wolff and Zimmer, Portland, for the Tektronix, Inc., industrial building in Beaverton (see Architecture/West, June 1962); and Edgar W. Smith, Portland, for the Edward D. Cauduro residence (featured in this issue of A/W).

Awards of Merit were presented to Lewis Crutcher, Portland, for the Equitable Savings & Loan Association building, Eugene (top photo); Wolff & Zimmer, for the Hyster Company office building, Portland (A/W June 1962); and to Farnham & Peck, Portland, for remodeling of the Portland office building at 124 Yamhill (bottom photo).

Jurors were Pietro Belluschi, FAIA, dean of School of Architecture, MIT; George T. Rockrise, San Francisco architect, and John Platt, Portland businessman.

DECORATION AND DESIGN—Opening June 1 for a three month exhibition will be a Decoration and Design Show to be staged in the Seattle Center. Featured will be original-design room settings created by a group of Seattle's leading interior decorators, all members or affiliates of the American Institute of Interior Designers. The show, a "first" for Seattle, is only the third time that such a show has been held outside of New York City, according to Agnes Rogers, president of the Washington Chapter, AID. The exhibit will be in the former Hall of Industry building at the Center and will be open daily from noon to 8 p.m.



Church of Rowayton, Conn. / Joseph Salerno, Architect

Red Cedar Shingles add strength

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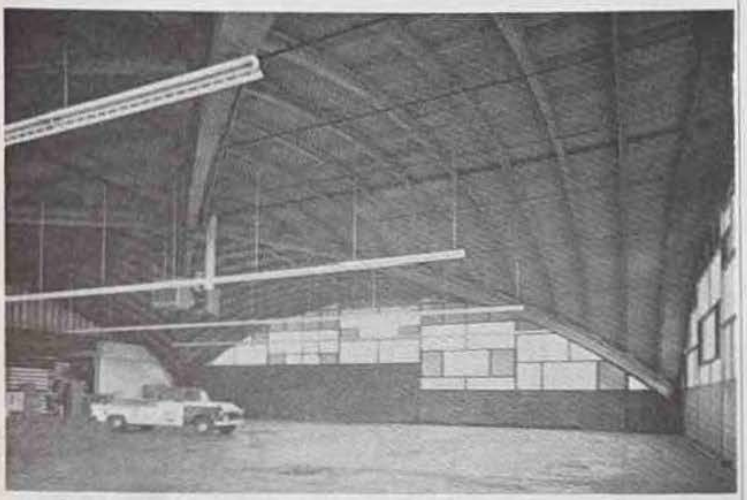
Space provided: 95'-6" x 95'-6" warehouse and office wing of 47'-6" x 96'. *Structural framing:* warehouse—diagonal buttressed arches spaced at 90°, with arched purlins spaced at 3'-2". Office wing is framed by glulam beams spaced at 16', supporting arched vaulted roof sections. *Area:* 9,120 square feet in warehouse, 4,560 square feet in office.



Warehouse and loading depot of Pepsi-Cola Bottling Company, Portland, Oregon. Architects: Scott and Payne, Portland. Engineer: James Pierson. Contractors: George A. Moore and Associates, Portland.

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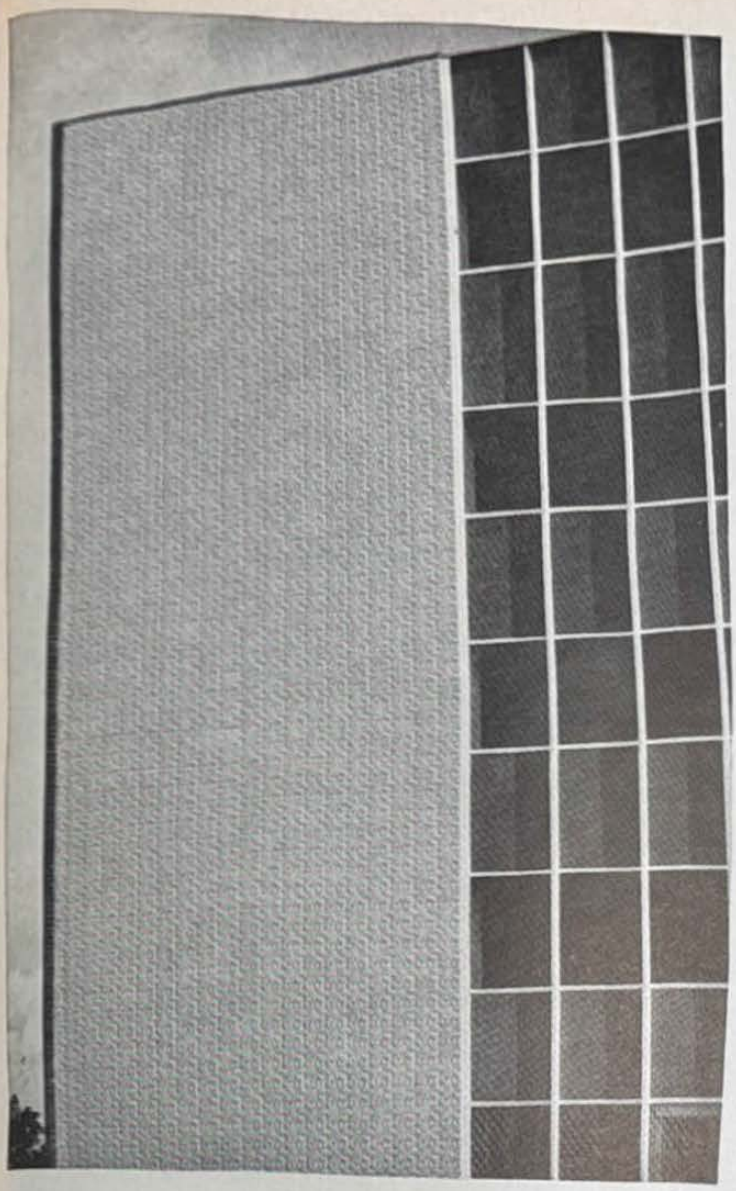
LOS GATOS WINNERS—Two young architects who formed an association for the express purpose of submitting a proposal for the Los Gatos Civic Center were declared winners from the 81 submissions received in the competition. Award was given to Charles Stickney, Berkeley, a project designer in association with Skidmore, Owings & Merrill, and William Hull, Hayward, project architect in the Oakland firm of Goetz, Hanson and Johnson. The winning design was highly commended by a jury composed of Los Gatos Vice Mayor Henry Crall, planning consultant Nester Barrett, AIP, and architects Ernest J. Kump, FAIA, Gerald McCue and Charles Moore, chairman of the Department of Architecture, University of California.

In making the awards, the jury said that the winning design was considered to be quiet and unassertive, expressing a simple but strong concept of civic center development in scale with the Town of Los Gatos. Site development was simple and took into consideration the relationship of the building to the trees, an important part of the program. They were further impressed by the appearance of the scheme in the first phase of construction and the ingenious concept of expanding and changing the building outward from its central core.

CONSULTING THE CALENDAR—Structural engineering course, 808 Tower Building, Seattle, in four consecutive sessions, June 5, 7, 10 and 13. Reservations with Albert Kelly & Associates, Lloyd Bldg., Seattle. Registration is limited . . . **Institute of Church Design** sponsored by Carnegie Institute of Technology and Pittsburgh Theological Seminary, Pittsburgh, June 3-14 . . . **AIA-ACSA Teachers' Seminar,** Cranbrook Academy of Art, Bloomfield Hills, Michigan, June 9-19 . . . West Coast dates for two series of **Summer Institutes on Protective Construction** sponsored by Office of Civil Defense, will cover course for architectural and engineering faculty members and a course for practitioners. Teachers will convene at University of California, July 8-August 16; University of Colorado, July 22-August 30. Practitioners will meet at University of Arizona, July 29-August 23. Information and application forms may be obtained by writing to Director, Architectural & Engineering Development Div., Dept. of Defense, Office of Civil Defense, Pentagon, Washington 25, D.C. . . . **6th annual meeting of American Society of Landscape Architects,** Penn-Sheraton Hotel, Pittsburgh, June 23-26. Theme: "Landscape Architects and Public Parks" . . . **International Design Conference,** Aspen, Colorado, June 24-28, on "Design and the American Image Abroad." Registration fee is $75. Information from Robert Monahon, 590 Madison Avenue, New York 22.



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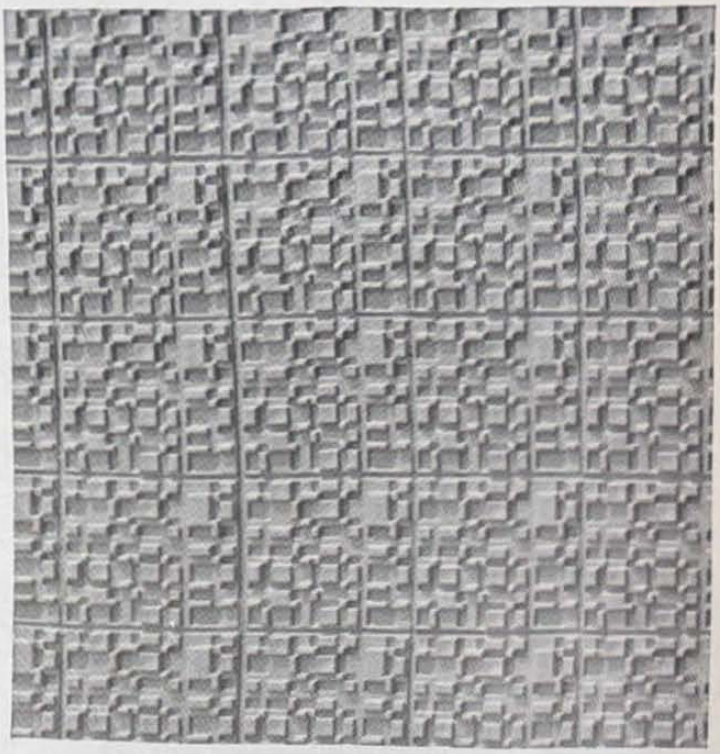
"MAZE" Pattern Pictured

Pictured is a portion of the facade of a new office building at 4032 Wilshire Blvd., Los Angeles. For it, architect Albert Criz, AIA, chose "Maze" pattern in Contours CV. General contractor was Harold R. Anderson, Inc.; tile contractor, Johansen Tile Co.

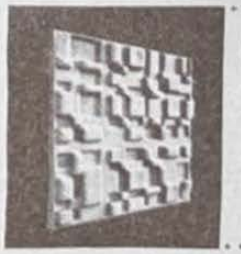
Your own design expressions also can be produced in Contours CV, to create the exact decorative effect *you* want. The cost is surprisingly low for the distinction of your own exclusive insignia, trademark or emblem.



19 Standard Colors

Contours CV comes in 19 colors ranging from pale pastels to rich tones, in semi-matte or mottled glaze. Included in the group are white and metallic bronze. Colors are offered with blended tones or accent spots in contrasting or complementary shades. Custom colors on special order. Plain, untextured pieces are available for contrast with relief patterns. Currently, sizes up to 11¾" by 11¾" are available with a nominal thickness at any point of ½".

Ask your GMcB Architectural Products Division sales representative for more data regarding this new ceramic facing that gives you so many opportunities for original and dramatic designs.



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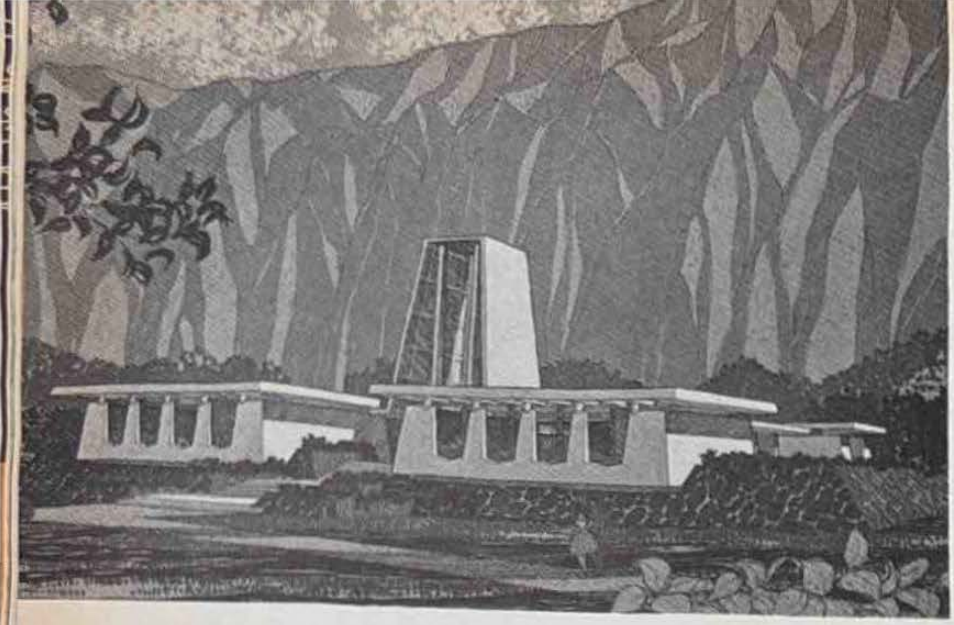
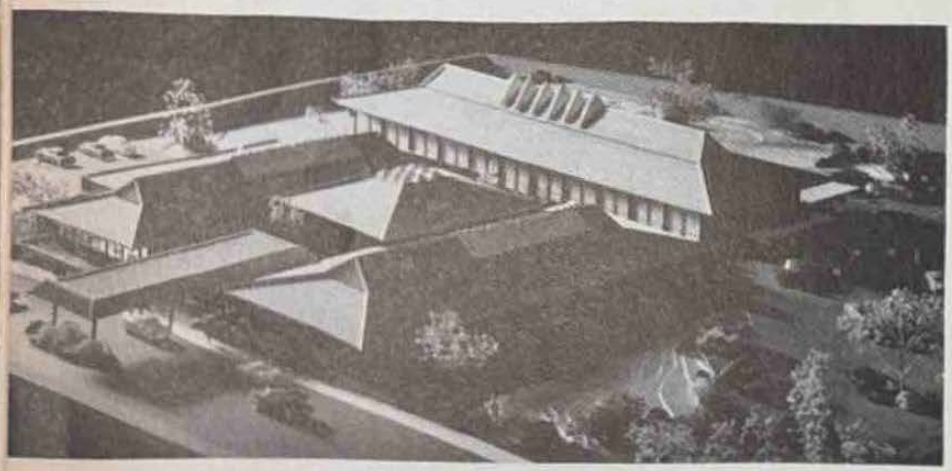


AT AHUIMANU, OAHU (top photo) the Administration Building for the Valley of the Temples Memorial Park was designed by architects Wimberly, Whisenand, Allison & Tong, Honolulu, around a central garden court and placed on a raised landscaped lava rock platform as were ancient Hawaiian heiaus (temples).

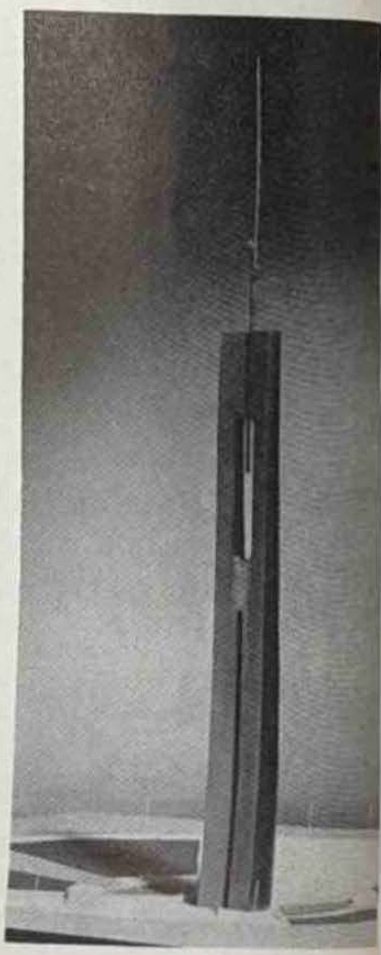
IN SEATTLE, The Lake City Elks Club is sited on 5.25 acres with building complex surrounding two interior open landscaped courts. Building, basically of wood construction, will house assembly meeting rooms, dining areas, recreational facilities, some opening to outdoor terraces. Architects: Sullam & Aehle; Structural Engineers, Gray & Evans, Seattle.

SAN JOSE Superior Court Building was designed by Ernest J. Kump, FAIA, and Associates, Palo Alto, for the County of Santa Clara.

PROJECT PREVIEW



COMMUNICATIONS TOWER will be central focus of new campus of University of California at San Diego. Proposed tower is 350 ft. high with top 30 ft. of mast proposed for educational TV, next 30 ft. for FM, and microwave reflectors below would link this campus with other University of California campuses. A bronze chime will strike ship bells on quarter hour. Architects: Robert E. Alexander, FAIA, and Associates, Los Angeles; Malcolm Leland, consultant sculptor.



firm changes

Robert T. Morris, who practiced in Wichita, Kansas, for 15 years, has joined the Irvin Kahn organization, San Diego, as Executive Architect to direct the planning of commercial, industrial and other developments.

Anderson, Birkeland & Anderson, Structural Consultants, Tacoma, announces the association of Robert F. Mast with their firm, now to be known as Anderson, Birkeland, Anderson and Mast.

Leo A. Daly & Associates, architects - engineers - planners, announce that architect John Daly of the firm's Omaha office, has been transferred to the Seattle office.

Architects Don Hatch and Bolton White announce the continuation of their partnership under the firm name of Hatch-White, Architects, following the resignation of Allan Steinau. The firm continues at 680 Beach Street, San Francisco.

new firms

Dudley Tyler Smith and George A. Thorson, Denver architects, have formed the partnership of Smith & Thorson, Architects, with offices at 310 Guaranty Bank Building. The firm is successor to Smith & Hegner, Architects.

Denis Beatty and Griswold Raetze announce the opening of offices for professional practice at 233 Post St., San Francisco.

Thair H. Blackburn, AIA, 2453 Washington Blvd., Ogden, Utah, formerly known as Grix, Plowgian and Blackburn, has opened a new branch office at 12999 Bayshore Highway, Burlingame, California.

elections

John H. Stufflebean, chief engineer and a principal of Blanton and Cole, Architect-Engineers, Tucson, has been elected president of the National Society of Professional Engineers. Allen S. Janssen, Moscow, Idaho, was elected western regional vice-president.

Leonard Sundell, Billings architect, was elected president of the Montana Board of Architectural Examiners. William J. Hess of Great Falls was elected secretary, and Oscar J. Ballas of Missoula, treasurer. H. C. Cheever of Bozeman was re-elected executive secretary.

honors and awards

Thomas A. Briner, San Luis Obispo architect, has been awarded the 1962 Lloyd Warren Fellowship, 49th Paris Prize in Architecture of the National Institute for Architectural Education. His interests are in study and analysis of urban public spaces leading to criteria or standards for urban design.

Henry L. Wright, FAIA, president of the Los Angeles firm of Kistner, Wright & Wright, was named 1963 Construction Man of the Year at the 28th Annual Construction Industries' Award dinner sponsored by the Los Angeles Chamber of Commerce. Mr. Wright is retiring president of the American Institute of Architects. He was cited for his service to the public by his contributions to the development of educational facilities, and for the stature evidenced by his national leadership, and for contributions to the construction industry.

Distinguished Service Citation of California Council, AIA, has been presented to John Hirten, San Francisco, SPUR executive director; Frank Hope, 1962 president of the CCAIA, and to Charles Luckman, Los Angeles, architect.

Paul Thiry, FAIA, has been named recipient of the Third Annual Construction Man of the Year Award of the Seattle Chamber of Commerce. He was cited for outstanding achievement in public service, service to the industry and for science in design, construction and materials.

Otis E. Hancock, Seattle architect, has been awarded a citation from the Seattle School District for his work in vocational education. He was also the recent recipient of a YMCA award for his long service in behalf of youth.

Three West Coast libraries were Award of Merit winners in the First Library Buildings Award Program sponsored jointly by the AIA, the American Library Association and the National Book Committee. Cited among 17 winners were Paul Thiry, FAIA, Seattle, for the Washington State Library building in Olympia; William L. Pereira & Associates, Los Angeles, for the Santa Fe Springs, California, library; and the Office of Ernest J. Kump, FAIA, and Masten & Hurd, Palo Alto, for Foothill College library, Los Altos Hills. Awards will be presented at the AIA convention in Miami.

Sixteen Merit Awards and twenty Citation Awards were made by the Northern California and East Bay Chapters, AIA, in the first awards program held since 1957. Winners were selected from 230 entries.

MERIT AWARDS

Stanford University Fraternity Cluster No. 1, Palo Alto: John Carl Warnecke and Associates, San Francisco.

Capitol Towers Redevelopment project, Sacramento: Wurster, Bernardi & Emmons, San Francisco; Edward L. Barnes, New York; DeMars & Reay, Berkeley.

Corte Madera School, Portola Valley: Callister & Rosse, San Francisco.

Carmel Junior High School, Carmel Valley: Kump Associates, Palo Alto; Elston & Cranston, Carmel.

Dinah's Motor Hotel, Palo Alto: Campbell & Wong Associates, San Francisco.

Mariner Oaks Apartments, Tiburon: Roger F. Hooper & Associates, San Francisco.

The 88" Cyclotron Building, University of California, Berkeley: Gerald M. McCue & Associates, Berkeley.

Dental Plaza, Stanford: Knorr & Elliott, San Francisco.

Redwood Medical Center, Kentfield: Neill Smith & Associates, San Francisco.

Hilmer Residence, Atherton: Knorr & Elliott, San Francisco.

Dr. William Cary Residence, Mill Valley: Joseph Esherick, San Francisco.

Charles Moore Residence, Orinda: Charles Moore, Berkeley; Donlyn Lyndon, Berkeley; William Turnbull, Berkeley; Richard Whitaker, Berkeley.

Pense Residence, Mill Valley: Marquis & Stoller, San Francisco.

Klaussen - Brown - Baldwin Speculative House, Squaw Valley: Henrik Bull, San Francisco.

Sunset Discovery House, El Dorado Hills West: Henrik Bull, San Francisco.

Sakamoto Residence, Kensington: Watanabe, Lipscombe & Fornoff, Berkeley.

CITATION AWARDS

Alteration to Columbus Tower Building, San Francisco: Henrik Bull, San Francisco.

Alteration to Belli Building, San Francisco: Bruce Heiser, San Francisco.

Alteration to Knorr-Elliott Office Building, San Francisco: Knorr & Elliott, San Francisco.

Alteration to Marquis Residence, San Francisco: Marquis & Stoller, San Francisco.

Elton A. Barr Residence, Napa: Walter Brooks, Berkeley.

Married Students Housing, University of California, San Francisco: Clark & Beuttler, San Francisco; George T. Rockrise, San Francisco.

Garden Apartments, Berkeley: Corlett & Spackman, San Francisco.

Goodhue Residence, Carmel: Hall & Goodhue, Monterey.

Shepard Cadillac, Berkeley: Hammarberg & Herman, El Cerrito.

Frank B. Hunt Residence, Berkeley: Kitchen & Hunt, San Francisco.

Office & Plant for Dux, Inc., Burlingame: Knorr & Elliott, San Francisco.

Anga-Roa Apartments, Berkeley: Roger Y. Lee Asociates, Berkeley.

Bernard Residence, Lafayette: Ian Mackinlay, Orinda.

Synagogue, Congregation Rodef Sholom, San Rafael: Marquis & Stoller, San Francisco.

Municipal Court Building, San Mateo: Nobler & Chen, Redwood City.

Oliver Smith Residence, Tiburon: Schubart & Friedman, San Francisco.

Cameron Residence, Stinson Beach: Sherwood B. Stockwell, San Francisco.

Hesse Hall, University of California: Van Bourg/Nakamura & Associates, Berkeley.

Crocker Dining Hall Addition, Asilomar: John Carl Warnecke & Associates, San Francisco.

Book Store and Post Office, Stanford University, Palo Alto: John Carl Warnecke & Associates, San Francisco.

appointments

Louis E. Gelwicks, vice president of Rex Whitaker Allen and Associates, San Francisco, has been named chairman of the newly former Architectural Barriers Committee, co-sponsored by the San Francisco Society for Crippled Children and Adults and the Northern California Chapter, AIA.

Burton Rockwell, San Francisco, has been appointed a director of Northern California Chapter, AIA, replacing Henry Schubart who resigned in January.

Fred Rochlin, Los Angeles architect, has been reappointed by Governor Edmund Brown to the California State Board of Landscape Architects.

miscellany

Dr. Joseph A. Baird, Jr., art curator of the California Historical Society, San Francisco, is visiting professor at the School of Architecture and Allied Arts, University of Oregon, this spring term. Dr. Baird is teaching two courses: Art and Architecture of Latin America and Baroque and Its Meaning for the Twentieth Century.

Paul Robinson Hunter, FAIA, partner in the Los Angeles firm of Hunter and Benedict, is on a seven-week tour of Europe to evaluate Free World city rehabilitation efforts. Hunter, who is chairman of the community planning subcommittee of the Citizens' Urban Renewal Advisory Committee, will study rehabilitation measures of such cities as Rotterdam and Dusseldorf, and will visit several totally planned communities on the continent and in Great Britain.

Belt, Lemmon & Lo, architects and engineers, Honolulu, have recently opened a branch office in Bangkok, Thailand.

John Lord King, San Francisco, has been elected secretary of the San Francisco Maritime Museum Association.

Rai Okamoto spent the fall semester at Cornell University as visiting professor of Urban Design in the College of Architecture.

address changes

Howard J. Powell to 5201 N. 7th St., Phoenix.

Johnson & D'Agostino to Skyways Bldg., 16700 Roscoe Blvd., Van Nuys, from Encino.

Robert A. Gillis to 1722-1st Avenue N., Great Falls, Mont.

Wing Y. Lee to 3718-45th Ave., Sacramento, from Modesto.

Arvid G. Johnson to 301 Indian School West, Phoenix.

Andrew Palmer to 9672 Skylark Blvd., Garden Grove, Calif., from Los Angeles.

Donald M. McDonald & Associates to the Central Bldg., Third Ave. and Columbia, Seattle.

Tetsuo H. Nakabayashi to 1364 139th St., Gardena, Calif., from Los Angeles.

Donald H. More to 280 Columbine Bldg., Denver.

Wilson V. Woodman to 2753 "D" East Coast Highway, Corona Del Mar, Calif., from Newport Beach.

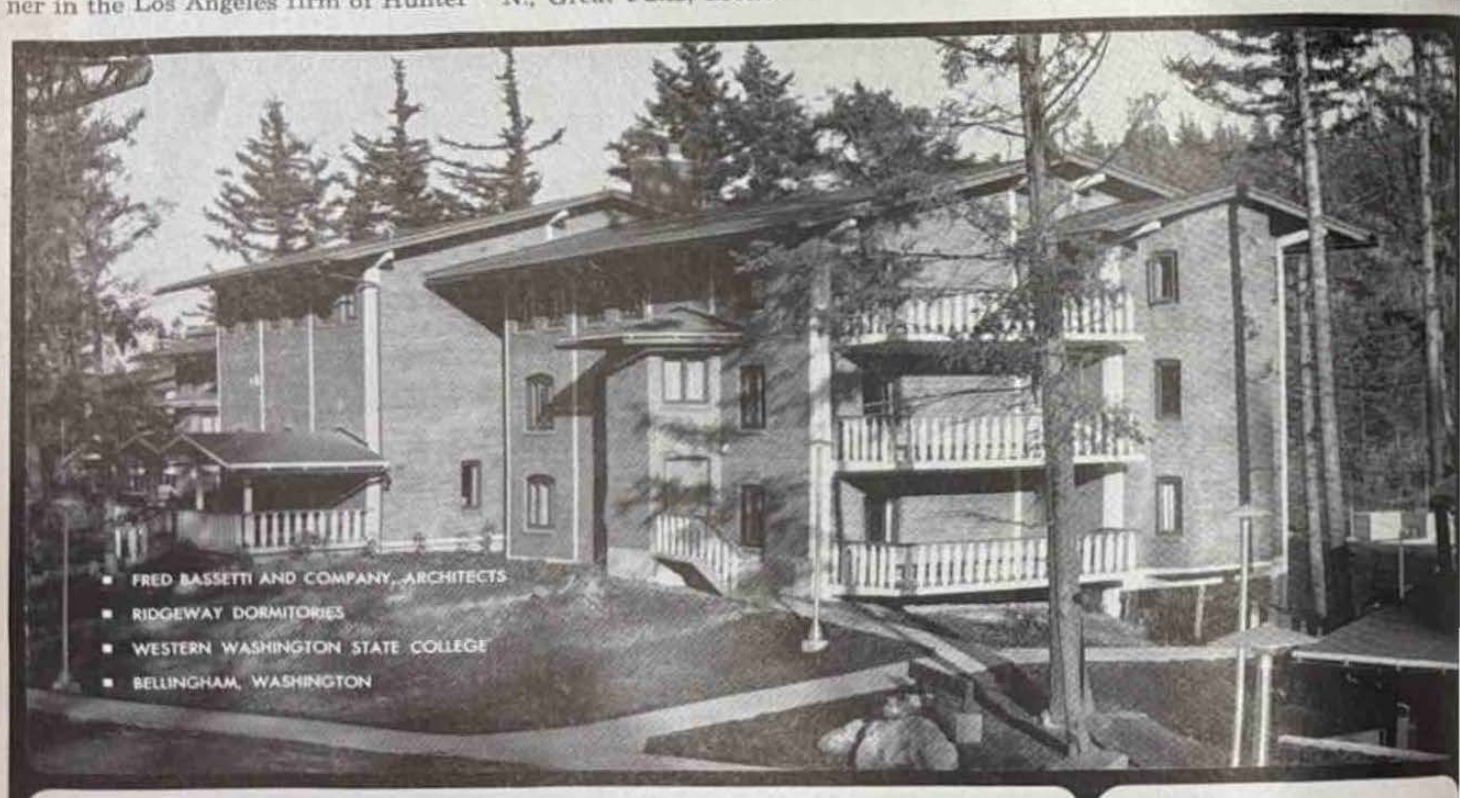
Arthur R. Schiller to 200 El Levante, San Clemente, Calif., from Newport Beach.

Henry M. Arnold to 2716 N. 16th St., Phoenix.

Jack M. George to 1535 E. 17th St., Santa Ana, California.

Oscar W. Louderback, Jr., to 1711 W. Malvern Ave., Fullerton, Calif.

John E. Carosso to P. O. Box 114, Pago Pago, Samoa, from Kailua, Oahu



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The Potlatch pre-engineered clear-span design gives sound, economical construction. Factory-made modular elements provide fewer components for quicker construction. The variety of spans, wall heights and building lengths gives you versatility. The eight-foot wide wall panels—fabricated and stained or painted on the exterior at the factory—tilt up to finish the building.

Appearance is the bonus value of this construction. The exterior or interior can be simple in basic wood details, or designed to fit the service needs of a store, restaurant, recreational building or church.

A.I.A. File No. 17

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Pre-engineered clear-span structural members of modern glue-laminated timber design, with modular wall panels in eight-foot sections and sectional roof components.

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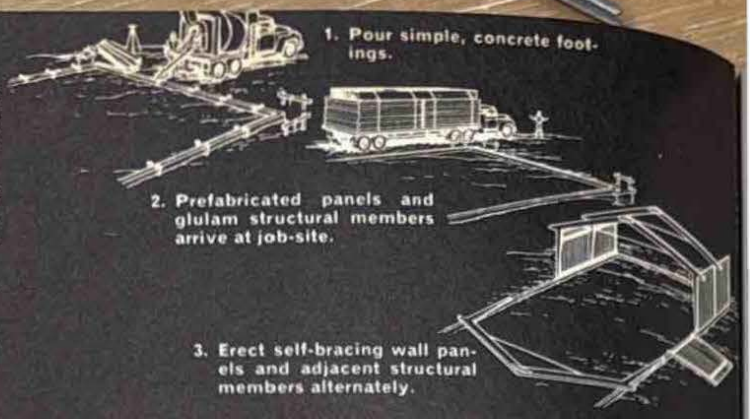
The average building is up and roofed in two days.



DESIGN VERSATILITY

Clear spans of 16′, 20′, 24′, 32′, 36′, 40′, 50′ and 60′, with wall heights to 22′ . . . and any building length in eight-foot modules, provides great variety. Door and window openings can be placed as needed.

Several exterior wall elements and interiors of exposed roof deck are available.

Beauty of wood, insulation, and the long service of timber construction are user advantages.

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Interiors and exteriors can be of the quality that the structure requires. It can be the simplicity of a storage building or the perfection of a church. Exterior and interior appearance is the big, quality asset of Potlatch Buildings.

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Potlatch Buildings Division
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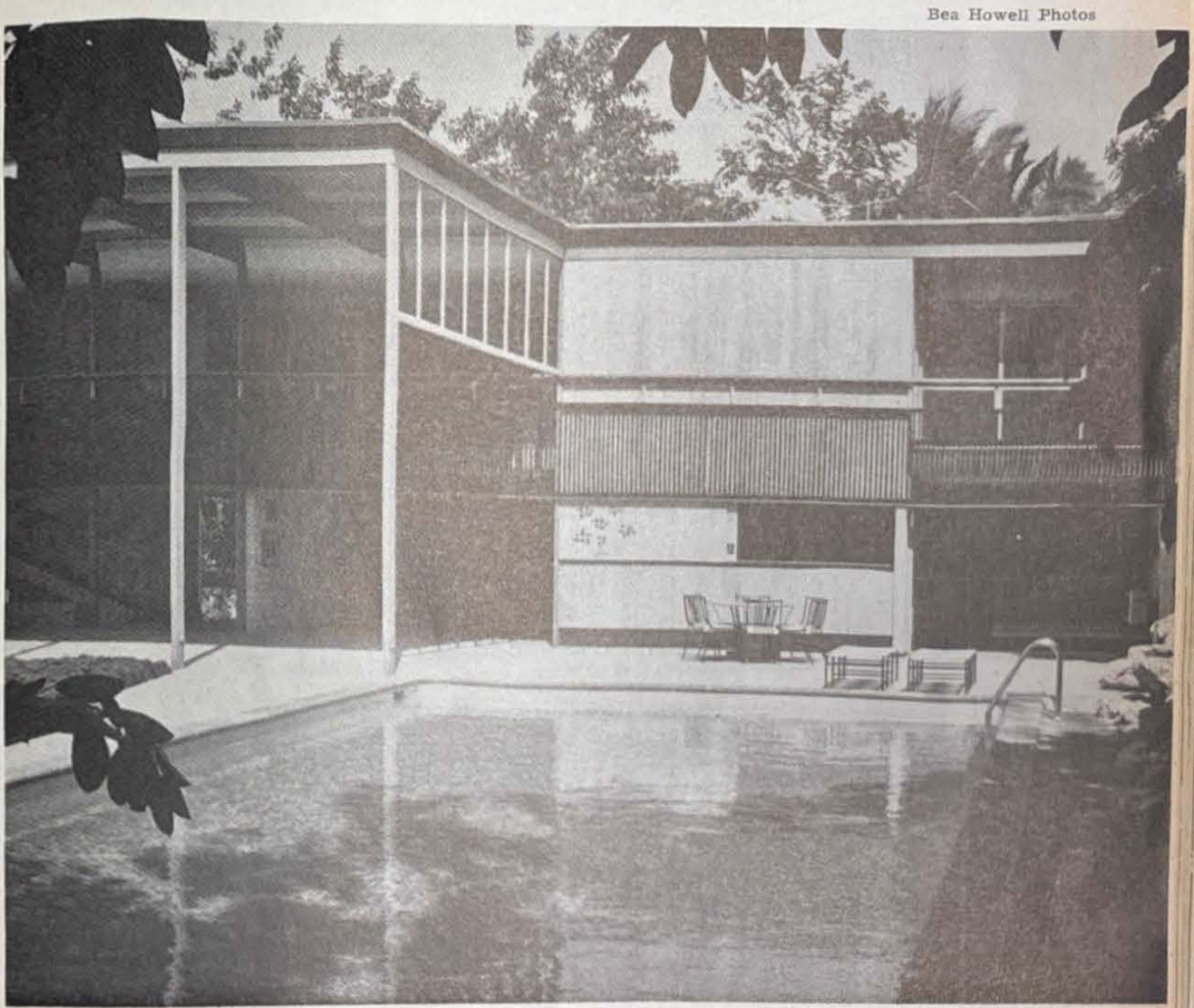
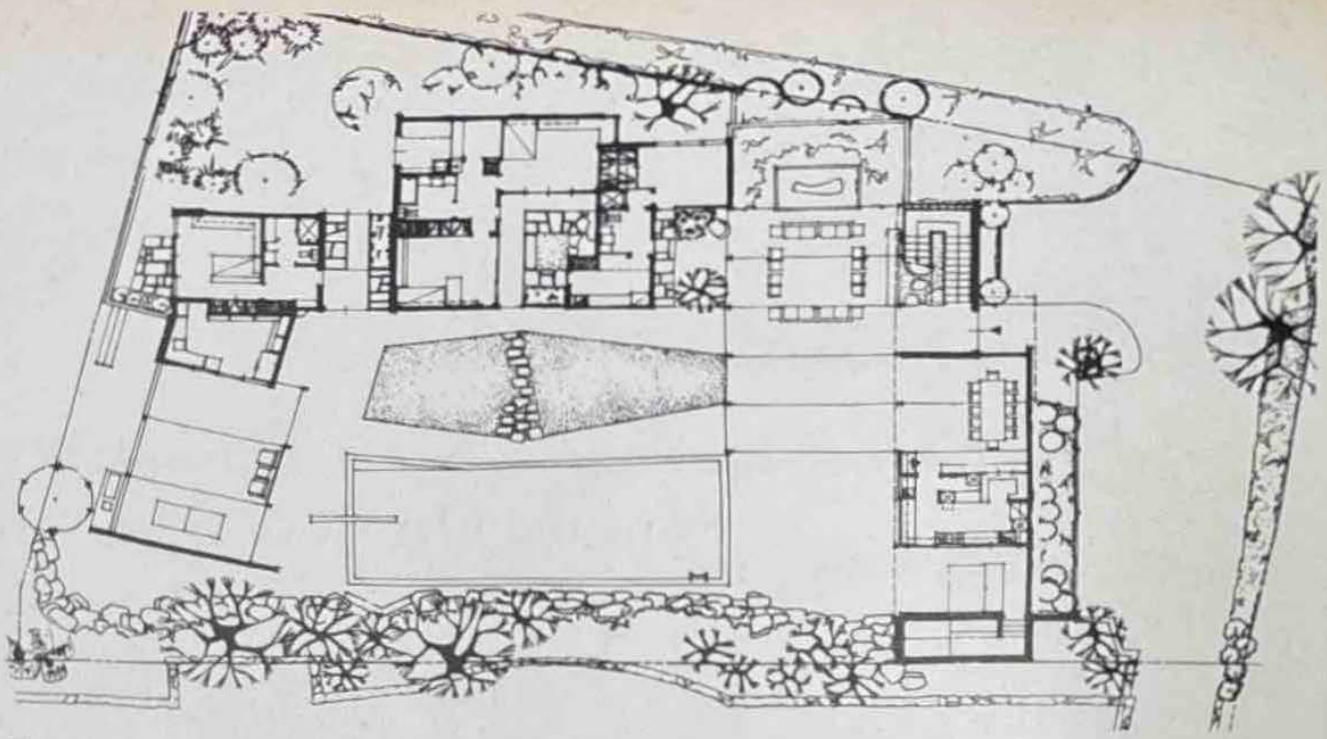
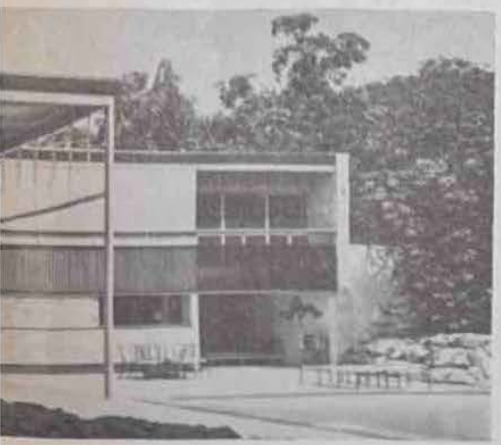
Hawaiian Home is Not a Transplant either from the Orient or from America

Bea Howell Photos





Driveway and patio at right lead to master unit of living and dining quarters (master bedrooms are above). Children's and guest quarters occupy the area broadside to the pool, while a recreation structure extends across the end of the pool at the left of the plan. A wall and plantings enclose the fourth side of the pool court.



Design Deals Creatively with Priv

GENERAL SPECIFICATIONS

Structure: Concrete foundations; steel frame; concrete slab and steel frame floors.

Roof: Kaiser V-rib embossed aluminum with redwood fascia stained dark brown. Clinton welded mesh over girl's patio.

Exterior: State Tile hollow cement block with squeeze joints, some grille block, some t&g Douglas fir rough siding stained off-white.

Interior: Philippine mahogany walls and cabinets, white-filled, varnished and waxed. Vicrtex plastic wall fabrics.

Floors: Dining and lanai of limestone, white dolomite and black basalt grouted in concrete. Bedrooms of Armstrong vinyl cork; bathrooms of Corlon vinyl. Summitville Palomino white quarry tile and Faientex Mosaic pumpkin and blue green tile inserts.

Ceilings: Vermiculite acoustical plaster.

Windows: Grilles and tropical redwood jalousies.

Doors: Pittsburg Herculite obscure, tempered glass; shoji doors of sliding mahogany frame, redwood louvered inserts; some flush mahogany.

Plumbing Fixtures: Kohler.

Kitchen Appliances: RCA-Whirlpool.

Pool: Valdestri Swim-Quip.

Stained Glass: Erika Karawina.

Sculpture: Edward M. Brownlee.

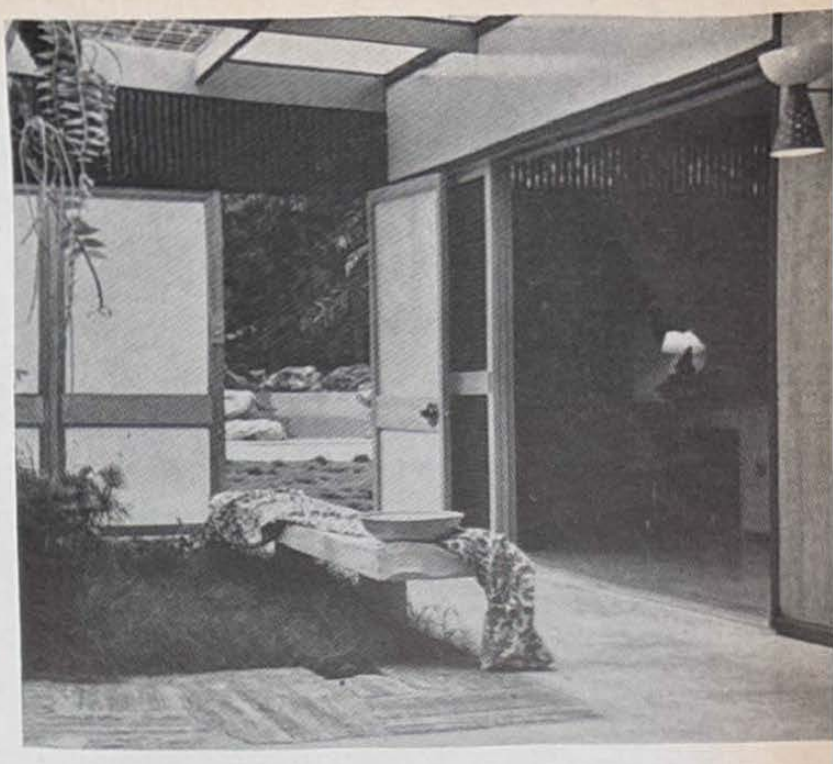
Total Area: 6,000 sq. ft. plus 1,800 sq. ft.

Date of Completion: April 1962

HARRISON'S NOELA DRIVE HOME
Dr. and Mrs. James Harrison
Waikiki, Hawaii

Alfred Preis, Architect

Thomas J. Tanaka, general contractor



TAILORED TO THE TASTES and hobbies and activities of the people for whom it was built, this home in Hawaii is entirely distinctive. No part of it seems to have generated from any specific architectural influence, not even Hawaiian; it is totally owner-oriented, even to the establishment of a small turtle pool for the young wildlife hobbyists.

The home-around-a-swimming-pool is really three-in-one. There is a master unit with kitchen, dining and living area on the ground floor, and master bedrooms above. There is a guest and children's bedroom unit, while a third unit is principally a roofed-over recreation area.

While each area has a good degree of privacy, all manage to open onto courtyards and breezeways and to the poolside; all rooms and areas have lovely views—outward to limestone rock gardens and bougainvillaea, and upward towards the cool greens and blues of Diamond Head.

Emphasis is on rectangular shapes, relieved by

Movement, Special Needs

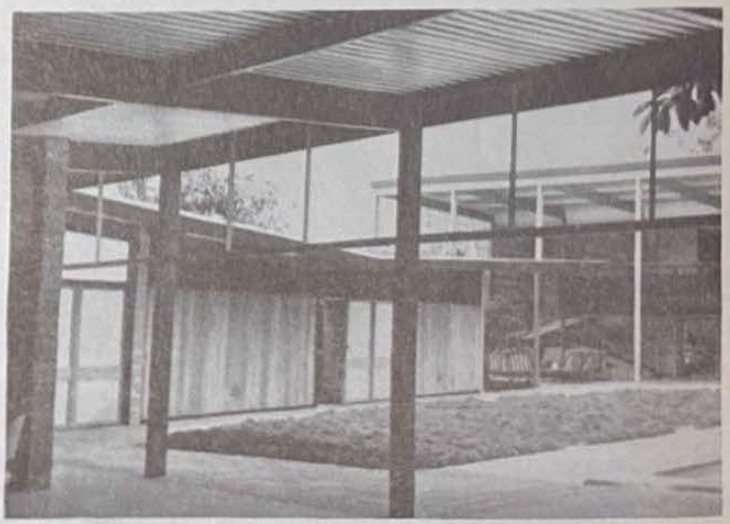
intimate gardens tucked into unexpected corners. The pool's rectangle is repeated in similar shapes created by thin columns and flat rooflines, and by detailing in geometric patterns that carry through even to the lines of furniture and the ceramic dining table.

Children's and guest rooms are one-storied, with girls sharing an open patio which may be separated from the main courtyard by sliding translucent panels. The boy's living space, with patio, is isolated in a corner of the court beside the roofed family recreational areas, where he may store surfboards, diving gear and other hobby equipment.

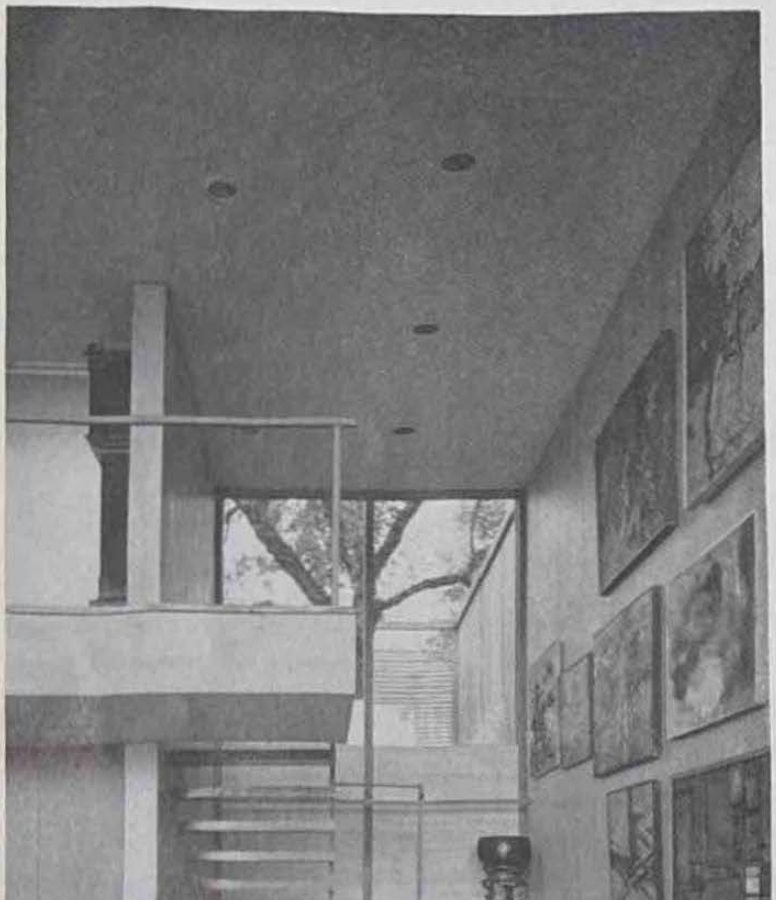
Both master bedrooms have movable room dividers to separate studies and sleeping areas. In fact, disappearing walls throughout the home give opportunity for individual study or gregarious social activity as desired.

An unusual intermingling of materials is carried off very well. The frame is steel, which lends itself well to the rectangular patterns, the roof is a V-rib embossed aluminum with redwood fascia. Walls are concrete block masonry, both solid and in grille shapes, yet there is Douglas fir rough siding, and grilles and jalousies of redwood.

In all, this home is a thrilling visual experience, providing a functionalism that almost demands use and activity.



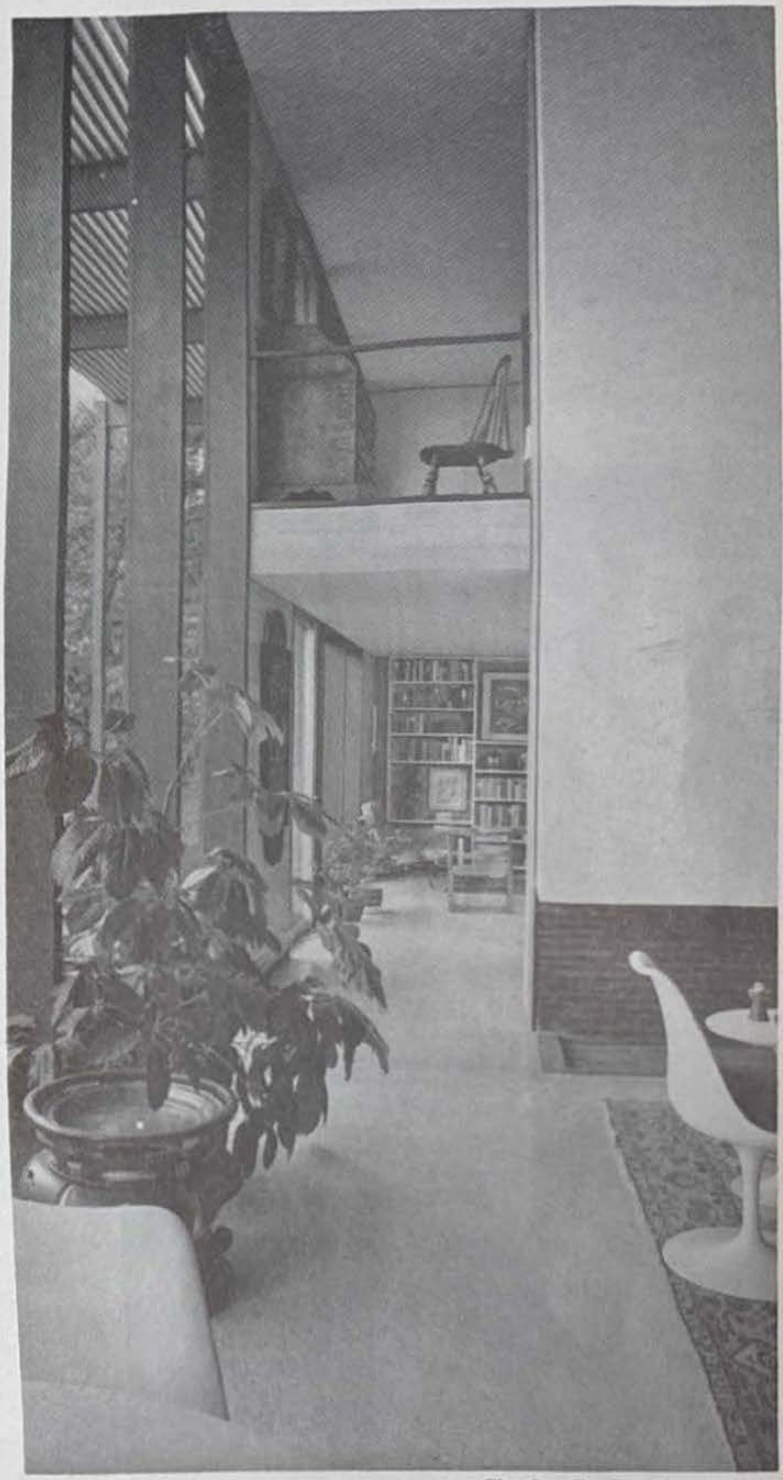
A Bachelor House Built to Dis



A BACHELOR HOUSE usually is designed to fu
fill requirements beyond those of pure shelte
but seldom do those other requirements pr
vide so much pleasure to the architect . .
This home was to serve as a natural showca
for a collection of contemporary painting
sculptures and ceramics as well as a numbe
of early American paintings and some fin
pieces of early American furniture.

The site was a moderate to steep grad
having a number of old apple trees to be re
tained, a heavily wooded lower level and
sweeping view. The owner had from th
outset one particular conception of a house
two levels related to the grade, his desire t
gain the ultimate from his view, and on
specific requirement for the house itself
that there be a single wall long enough t
display the contemporary paintings.

jects of Art



Charles R. Pearson Photos

EDWARD D. CAUDURO RESIDENCE
Multnomah County, Oregon

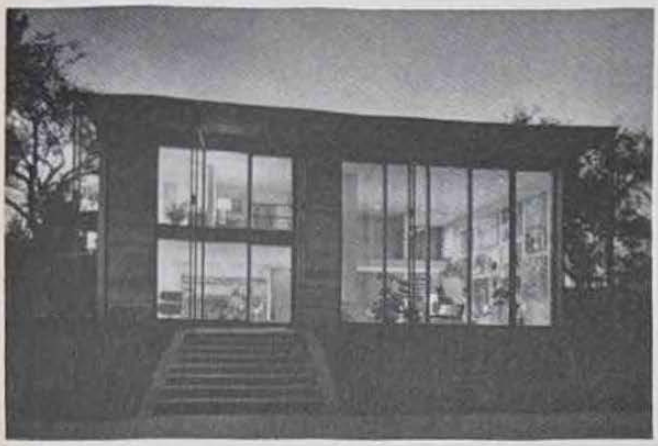
Edgar Wilson Smith, architect

The architect conceived the house as an orderly structure, oriented to the view and related to the site in a way to allow maximum openness compatible with privacy. An entry and bedrooms were placed at the upper level of the slope, and living spaces below.

Materials and detailing were kept clean and simple, so that they would in no way detract from the collections of art objects, and so that the art would in turn become an integral part of the interior treatment.

In competition, a jury of architects, Pietro Belluschi and George Rockrise, and Portland businessman John Platt, wrote: "The Jury felt this an outstanding solution of simple elegance and satisfying inter-spacial relationships. Excellent detailing, refined simplicity, handsome use of large, simple planes against fine scale details. Excellent choice of materials."

Bachelor House Displays Art Objects



GENERAL SPECIFICATIONS

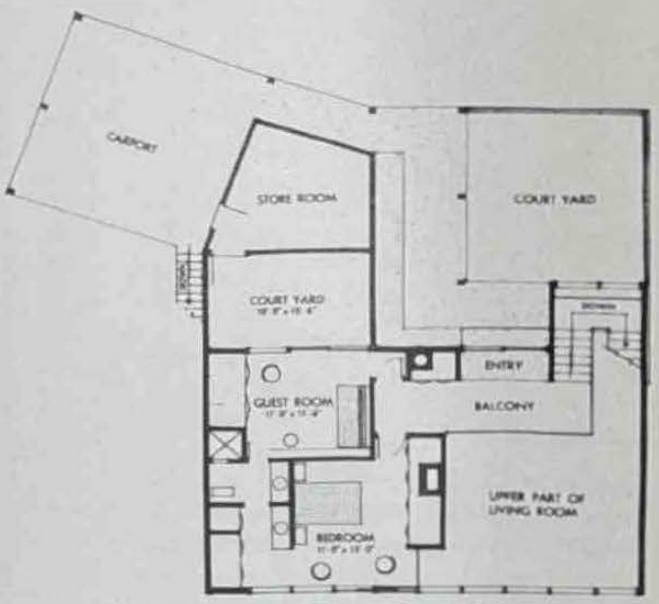
Structure: Concrete foundations and some walls. Wood framing. Terrazzo floors.

Exterior: 1x4 t&g cedar dipped in Woodlife.

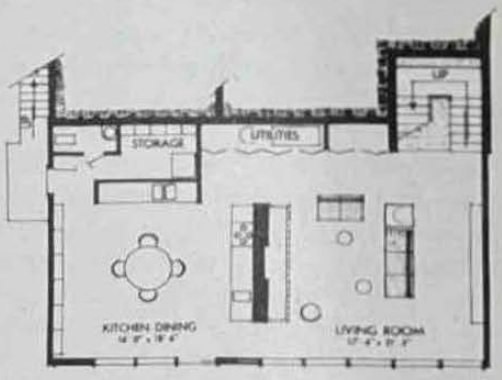
Interior: 1x4 t&g hemlock treated with white REZ. Gypsum drywall ceilings.

Stairs: Dark stained laminated oak, treads, landing and balcony.

Total Area: 1,920 sq. ft. **Cost:** Approx. $17.30 sq. ft.



FLOOR PLAN UPPER LEVEL



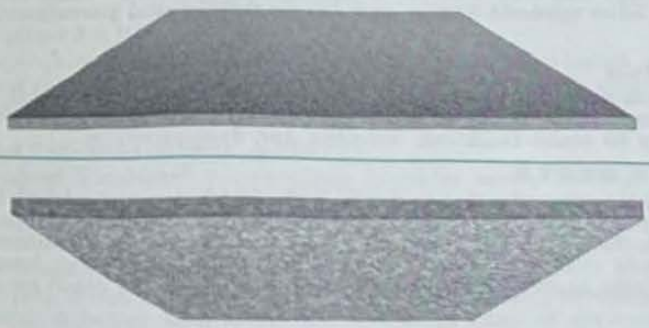
FLOOR PLAN LOWER LEVEL

Architects' Guide to

ENGINEERED PANELS OF WOOD FIBERS AND PARTICLES

their differences, uses, specifications, relative costs

● The rapid growth in popularity of various types of mat formed panels has been accompanied by many changes and improvements in these products. This has made it difficult for those specifying and using them to keep up-to-date with latest developments. To answer this need for current product information, this guide provides an outline of the basic characteristics and major uses of the two main types of mat formed panels manufactured by Weyerhaeuser Company:



HARDBOARDS

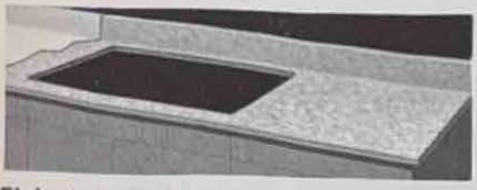
PARTICLEBOARDS

Weyerhaeuser Company
Wood Products Division

Weyerhaeuser
PARTICLEBOARDS

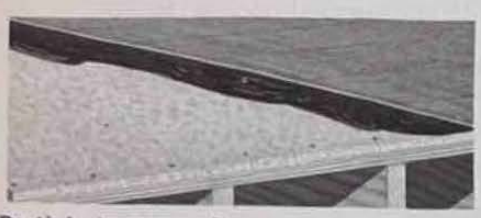
Two distinct types of panels serve different needs

Weyerhaeuser Company offers two types of particleboards: Timblend® flake type panels and Versabord® particle type panels. Each has distinctive physical characteristics that make it most suitable to certain specific end-use requirements. Both types of panels are manufactured to meet Commercial Standards CS 236-61.



Flake type panels
Weyerhaeuser TIMBLEND

• Because of its multi-layered flake construction, Weyerhaeuser Timblend offers greater stiffness, flexural strength, dimensional stability, surface smoothness, screw-holding power and has tighter edges than regular particle type panels. These specific properties make Weyerhaeuser Timblend an outstanding core material for decorative plastic laminates and hardwood veneers.



Particle type panels
Weyerhaeuser VERSABORD

• Weyerhaeuser Versabord, because of its homogenous particle orientation, has superior internal bond strength. Panels are smooth, solid, stable and uniform throughout. They are engineered for guaranteed performance as an underlayment for resilient floor coverings.

Both types of Weyerhaeuser particleboards offer important advantages over plywood, lumber and other types of manufactured panels. These include: consistent uniformity, complete absence of grain, knots, voids and surface imperfections, and outstanding warp resistance.

PARTICLE TYPE PANELS

VERSABORD®

Versabord is an economical, particle type panel specifically designed for use as a floor underlayment material for resilient tile, linoleum floor coverings and carpeting.

It is produced to meet specifications of FHA Bulletin UM-28 "Mat Formed Wood Particleboard for Floor Underlayment" and is accepted for use in construction covered by FHA and VA insured loans.

Versabord is manufactured from clean, dry wood shavings which are dry processed into uniform-sized particles and mat formed into homogenous panels.

The particles are coated with a resin binder and bonded together under heat and pressure to form a solid panel, free from knots, grain, voids or surface defects.

Versabord floor underlayment is performance-guaranteed in writing when installed in compliance with approved precedures. Panels are brand and grade imprinted.

THESE DESIRABLE PHYSICAL CHARACTERISTICS HAVE EARNED VERSABORD A WIDE ACCEPTANCE AS A QUALITY FLOOR UNDERLAYMENT MATERIAL...

UNIFORM THICKNESS
Manufactured to close tolerances, Versabord panels can vary less than 1/100 of an inch in thickness compared to 1/32 of an inch allowed in plywood. This helps ensure level joints that floor coverings can bridge smoothly, eliminating joint telegraphing and tile cracking problems.

SMOOTH SURFACES
Panels are sanded smooth both sides and can be applied either face up. There are no high or low spots to cause uneven floor wear. Versabord is free from knots, grain and surface imperfections that can telegraph through thin, modern floor coverings. Glue spreads evenly and bonds tightly and permanently to flooring.

FLAT AND STABLE
Properly installed panels will remain flat. Moisture content is controlled to a proper equilibrium value. Built-in moisture-resistant properties provide dimensional stability to resist buckling, warping and delamination.

SOLID, RESISTS DENTS
Versabord resists indentation because of a built-in hardness unmatched by other floor underlayment materials. Panels are hard yet remarkably resilient and comfortable underfoot. The solid void-free construction provides outstanding resistance to dents that can result when high weight loads from heavy furniture, women's spike heels or sharp blows are concentrated in small areas.

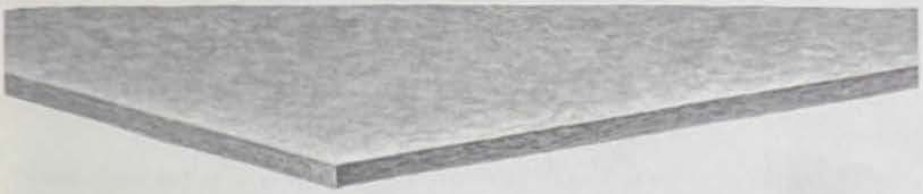
EASY TO USE
Versabord works just like any other form of wood. Panels cut cleanly with ordinary hand or power tools. They resist cracking or splitting on faces and edges when nailed or stapled. Uniform density throughout, from panel to panel, ensures consistent workability.

SIZE
Versabord is available in 4' x 8' panels, 3/8", 1/2", 5/8" and 3/4" thick.

COST
The basic material cost of Versabord is generally lower than that of fir plywood in grades recommended for underlayment use. In addition, the cost of installing floors is often reduced for further savings.

FLAKE TYPE PANELS

TIMBLEND®



The raw materials and manufacturing methods used in the production of Timblend are specifically designed to create a quality flake type panel with the desirable physical characteristics required for such demanding applications as cores for plastic faced sink and counter tops and hardwood veneered wall paneling, cabinet parts, and sliding and bi-fold doors.

Timblend is manufactured from clean, whole wood. This is sliced into thin, flat flakes, each precision-cut to retain the longitudinal strength of the natural wood fibers.

Flakes are coated with special resins and mat formed in a criss-cross arrangement with surfaces flat and parallel, then dry process bonded under heat and pressure.

Larger flakes are placed at the center of the panel with finer ones at the surface. This provides balanced multi-layer construction for warp-resistance plus smooth, uniform faces.

AUTOMATED MANUFACTURING AND QUALITY CONTROL GIVES TIMBLEND A HIGH DEGREE OF UNIFORMITY IN ALL OF THESE IMPORTANT CHARACTERISTICS . . .

SURFACE SMOOTHNESS

Fine surface flakes, a uniform panel thickness of ±.005", and smooth sanding of both faces provide a surface ideally suited to the application of fine wood veneers or thin plastic laminates. Filled Timblend is available for painting.

DIMENSIONAL STABILITY

Precision controlled flakes are oriented in layers within panels to ensure maximum flake-to-flake surface contact and stability. Outstanding dimensional stability also results from low moisture vapor absorption rate of the panels. ASTM tests show a linear change value of only 1/10% . . . an industry low.

RESISTANCE TO WARPING

Interlocking flakes are cross-laminated in multiple layers to provide balanced panel construction with excellent warp-resistance. In addition, the low moisture absorption rate also provides resistance to warping.

SCREW-HOLDING ABILITY

Compact Timblend construction provides screw-holding ability comparable to that of softwood lumber. Void-free panels also provide tight, smooth edges suitable for filling and painting or edge-banding.

WORKABILITY

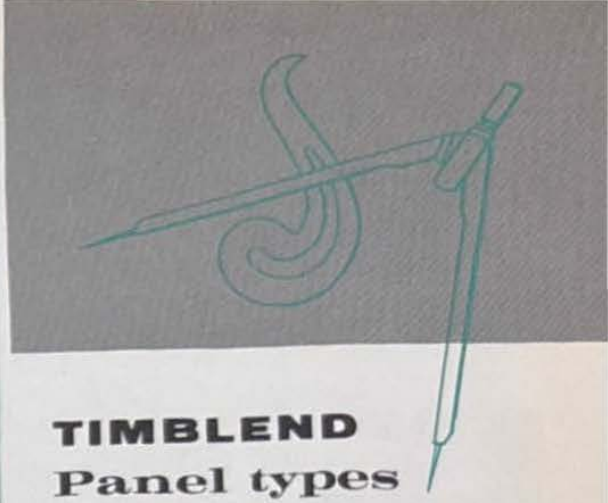
Because it has no grain, hard or soft spots, knots or voids, Timblend's workability is better and more uniform than that of plywood. It saws without whiskering, mortises without splintering, and routs cleanly.

RANGE OF SIZES

Stock panels are available from 2' x 4' to 4' x 16' in size . . . thicknesses range from 3/8" to 1-3/16". Custom sizes in addition to the standard stock panels are also available on special order.

COST

Timblend compares favorably in price with fir plywood in grades recommended for similar end-use applications. Reductions in application costs often result in significant savings.



TIMBLEND Panel types and uses

REGULAR

Bonded with urea type resins for nonstructural interior uses such as wardrobe doors, shelving, paneling, sink and counter tops, cabinet and fixture parts.

FILLED

Factory filled and sealed one or two sides. Provides a smooth surface for painted wardrobe doors, built-ins, and paneling. One finish coat will usually cover.

VENEERED

Offered in a wide range of fine wood veneers. More economical than lumber core panels, comparable in price to veneer core panels. Available factory finished or fire retardant treated.

TOXIC TREATED

Highly resistant to mold, decay-forming fungi and insects such as termites.

PHENOLIC

Bonded with phenolic resins to withstand exposure to extreme moisture and humidity under high temperatures. Resin impregnated or plastic overlays may be hot pressed to panels without weakening them. Can be used for selected exterior applications.

ACRYLIC OVERLAID

Phenolic Timblend is faced with decorative acrylic plastic sheets. They are highly resistant to weather and abrasion. Available in red, green, blue or white fade-resistant colors for signs or nonstructural exterior applications.

PHENOLIC OVERLAID

Phenolic Timblend with high density phenolic resin impregnated fiber sheets applied to both sides. Highly resistant to moisture and abrasion. Used for painted nonstructural exterior applications.

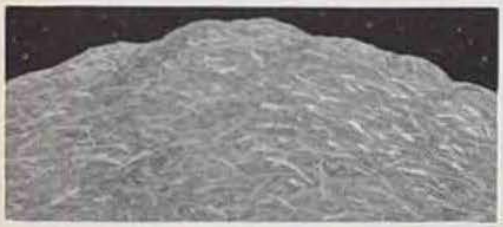
FIRE RETARDANT

UL tested and rated with a flame spread factor of 15. Manufactured to meet Federal Specifications SS-A-118b (Class B). Uses include core material for decorative laminates and other overlays.

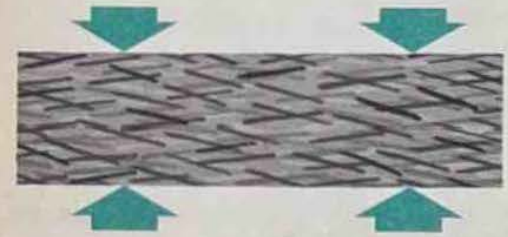
Weyerhaeuser

HARDBOARDS

Tough, dense and smooth panels for interior or exterior use



Hardboards are all-wood panels. A mechanical process rubs apart wood chips, reducing them to whole wood fibers which are carefully classified for size and length.



The fibers are air felted and mat formed by Weyerhaeuser's Patented Dry Process into a continuous blanket which is compressed under heat and pressure into panels. Natural wood lignin is the basic binder.

● While hardboards are generally well known and widely used, there is a wide choice of panel types and quality standards to be considered in selecting the product best suited to specific end-use requirements. Below is a brief outline of the various hardboard types manufactured by Weyerhaeuser. They are engineered to meet the requirements of Federal Specifications LLL-H-35 and Commercial Standard CS251-63.

Weyerhaeuser hardboards are distinguished by the unique dry-process method of manufacturing which gives them superior impact and breaking strength, smoother, harder and more uniform surfaces, lighter color, better bendability and superior workability.

STANDARD "WEYTEX"
Smooth one side with a screen pattern on the other. Light tan in color. Used primarily for interior applications. Meets Federal Specifications LLL-H-35, Type I, Class I.

TEMPERED "WEYTEX"
Impregnated with tempering liquids and kiln baked for greater strength, durability and resistance to moisture and abrasion. Ideal for exterior applications. Meets Federal Specifications LLL-H-35, Type II.

PREFINISHED "WEYTONE"
Panels are coated with a translucent, light colored sealer, baked and buffed to provide a permanent stain and abrasion resistant surface without additional finishing. Patterns: smooth, plank, block and perforated.

PRIME COATED "WEYTEX"
Tempered panels with a primer uniformly applied to the surface, ready for final paint coats. Finish painting is faster, smoother, longer lasting and coverage is greater. Available smooth or in "U" grooved and striated patterns. Ideal for exterior vertical sidings.

DECORATIVE PATTERNS
Both Standard and Tempered Weyerhaeuser hardboards are available in a wide variety of special decorative surface patterns. These include perforated, striated, grooved, plank and block designs.

SIZES AND THICKNESSES
Weyerhaeuser construction-type hardboards are available in sheet sizes ranging from 4' x 4' to 4' x 16' and thicknesses from 1/8" to 5/16".

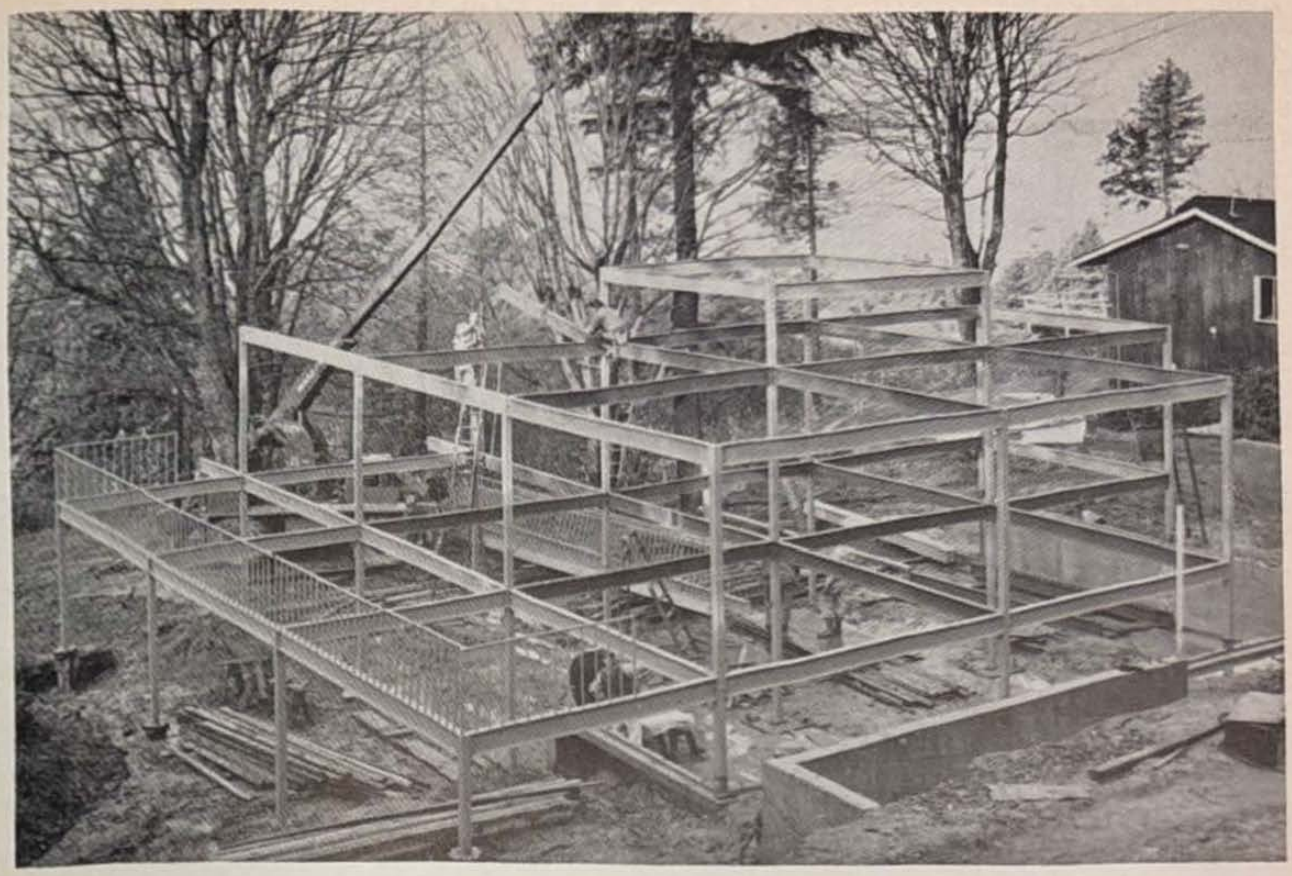
COST
Prices of different panel types vary but are generally lower than those of lumber or plywood products used for the same purposes. In addition, further savings are often possible in application and finishing costs.

SAMPLES AND ADDITIONAL INFORMATION

You are invited to contact the Weyerhaeuser Sales Office nearest you for samples and brochures giving complete facts on the selection, specification and use of all types of Weyerhaeuser particleboards and hardboards. This material may also be obtained by writing to Weyerhaeuser Company, Box B-905, Tacoma 1, Washington. Please specify the product or use for which information is desired: Versabord Floor Underlayment, Timblend Flake Type Panels, Weyerhaeuser Hardboards . . . or all three.

These products are sold by the Weyerhaeuser dealers in your area. Warehouse stocks are maintained in a nation-wide network of Company Distribution Centers as a readily available source of supply.

Weyerhaeuser Company Wood Product[illegible]on • Tacoma 1, Washington



Privacy for Eight in an Open Atmosphere

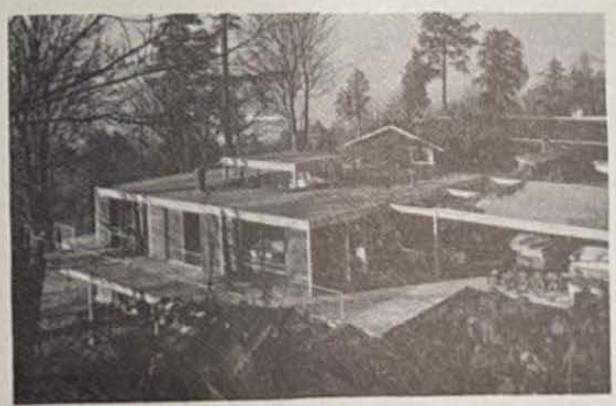
RESIDENCE
Mr. and Mrs. Benjamin E. Weeks
Seattle, Washington

Ibsen A. Nelsen, Russell B. Sabin, architects, and Gordon B. Varey, associate

Gray and Evans, structural engineers

Eberharter and Gaunt, general contractors

Leckenby Structural Steel Co., fabricators

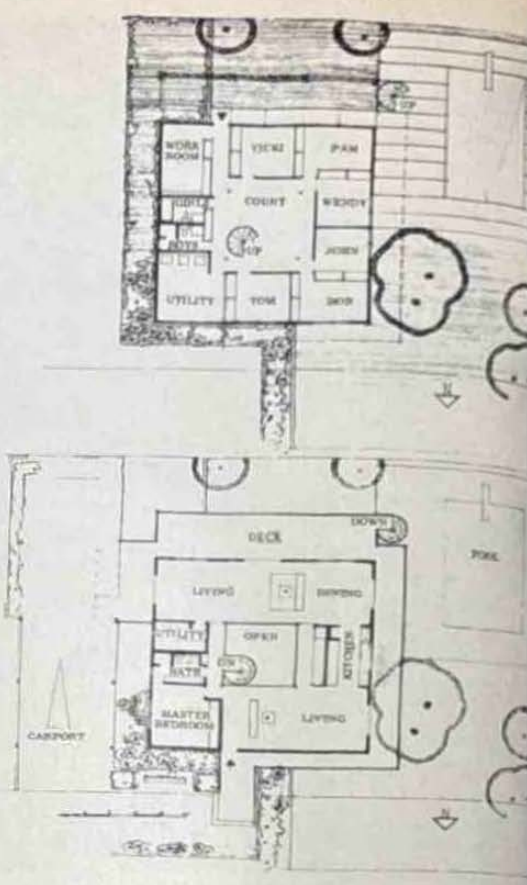


AN OWNER IN THE STRUCTURAL STEEL BUSINESS and an architect sympathetic to the advantages of steel framing combined their philosophies to produce this home that is so well designed to enhance the life of a large and active family.

They sought total privacy for eight individuals while still preserving a sense of unity and space, so that the house would not be confining or "cut up".

The building is designed on a 14-foot square module to suit the space needs, with 4-inch square steel posts on the modules and 10-inch deep light steel interconnecting beams. It is built around a two-story central court with children's bedrooms and work space on the lower floor, and living areas and parent's bedroom on the upper floor. The court serves as play space, provides circulation, and is lighted by a clerestory above.

The upper level is surrounded by deck



to give outdoor living space on the sloping view lot. Kitchen, dining, living and most of the bedrooms are on the view side. Exterior walls mostly are panels of glass, and on the interior, the only barriers between privacy and enjoyment of both the central court and the outer view are sliding shoji screens.

Interior finish materials were carefully selected to give touches of warmth and security to the abnormally open and delicate appearance of this type of structures. Ceilings are oiled cedar wood slats of a softening appearance. Walls are gypsum board, but largely occupied by mahogany cabinets, and louvered mahogany wardrobe doors for the numerous storage spots strategically located throughout the building.

Constructionwise, the structure was so thoroughly prefabricated in the steel shop, that the 10 tons of framework were erected and ready for the other building trades in just two working days.

GENERAL SPECIFICATIONS

Structure: 10 tons of steel framework set on co
crete footings and two concrete retaining wall

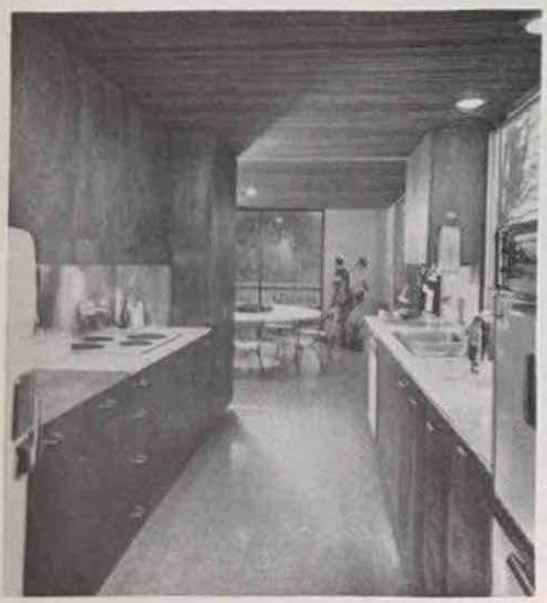
Floors: Vinylized asphalt tile on plywood subfloo

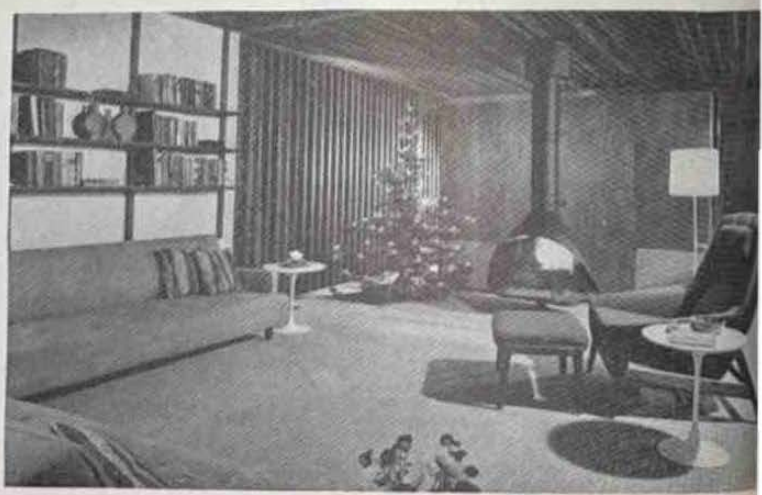
Walls: **Interior**—gypsum plasterboard; exterior
1x4 cedar resawn and stained.

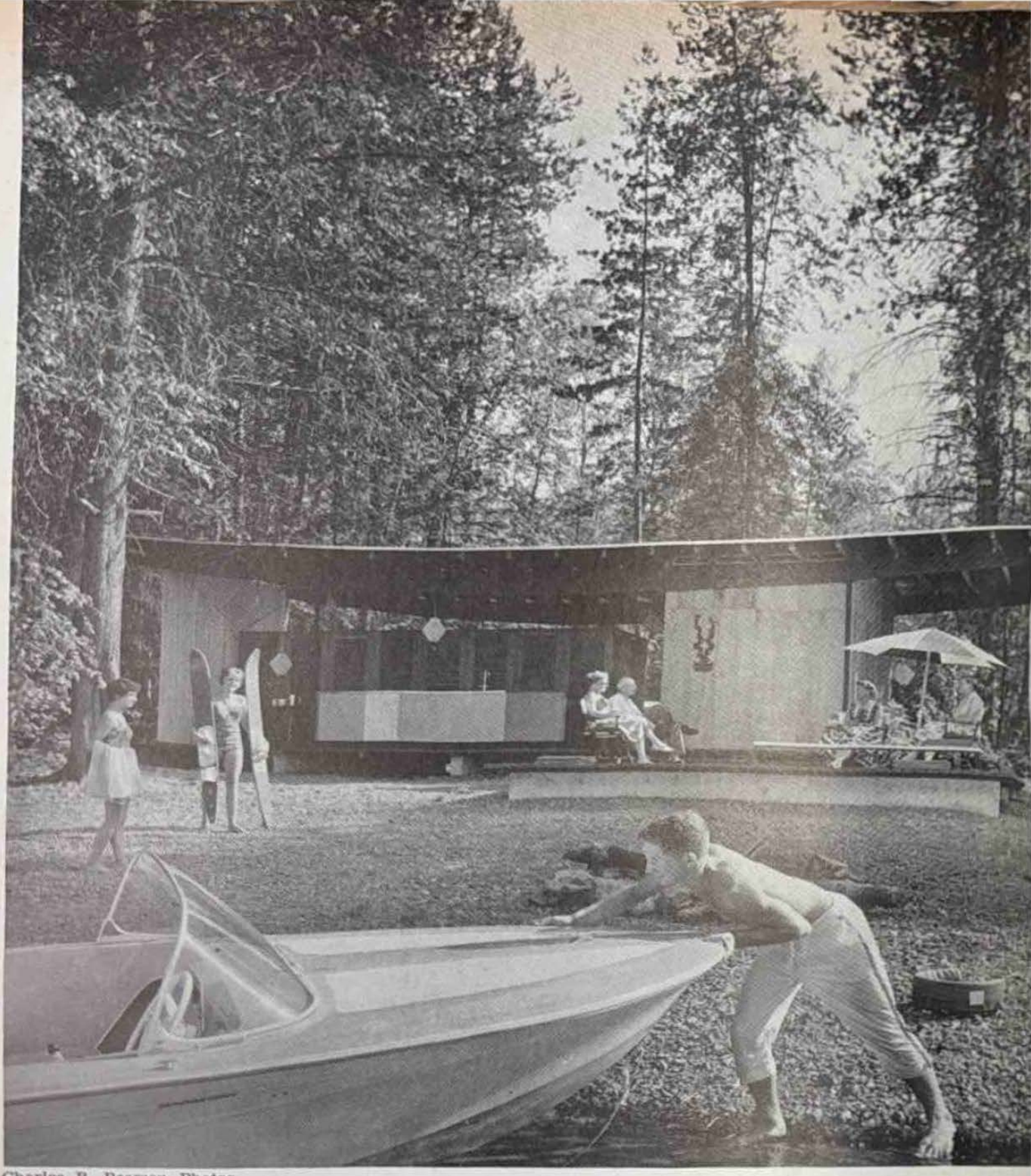
Ceilings: Oiled cedar wood slats on insulation batt

Windows: Glass stopped in wood, and sliding gla
doors.

Doors: Louvered mahogany. **Countertops:** Formic





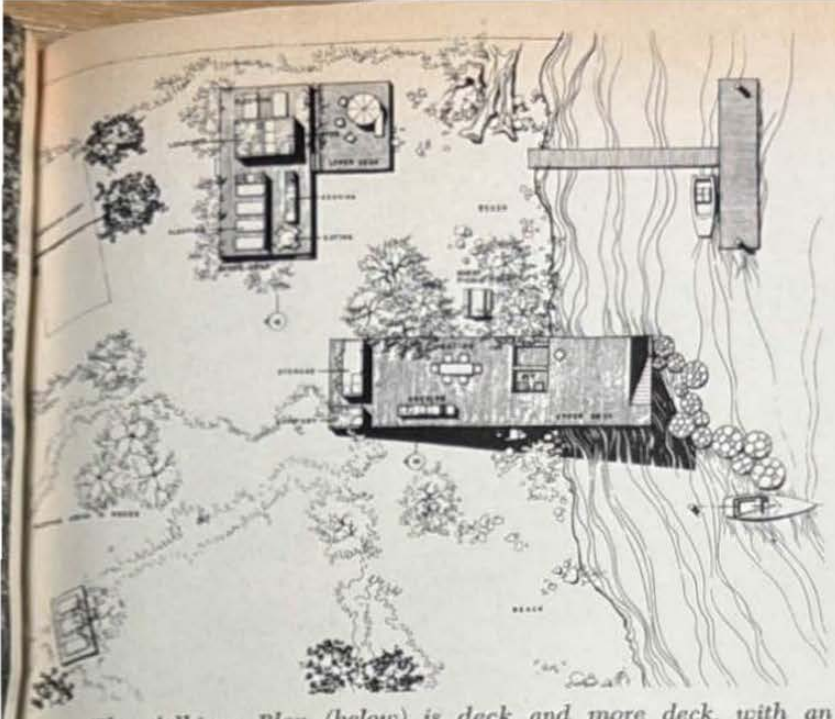


Charles R. Pearson Photos

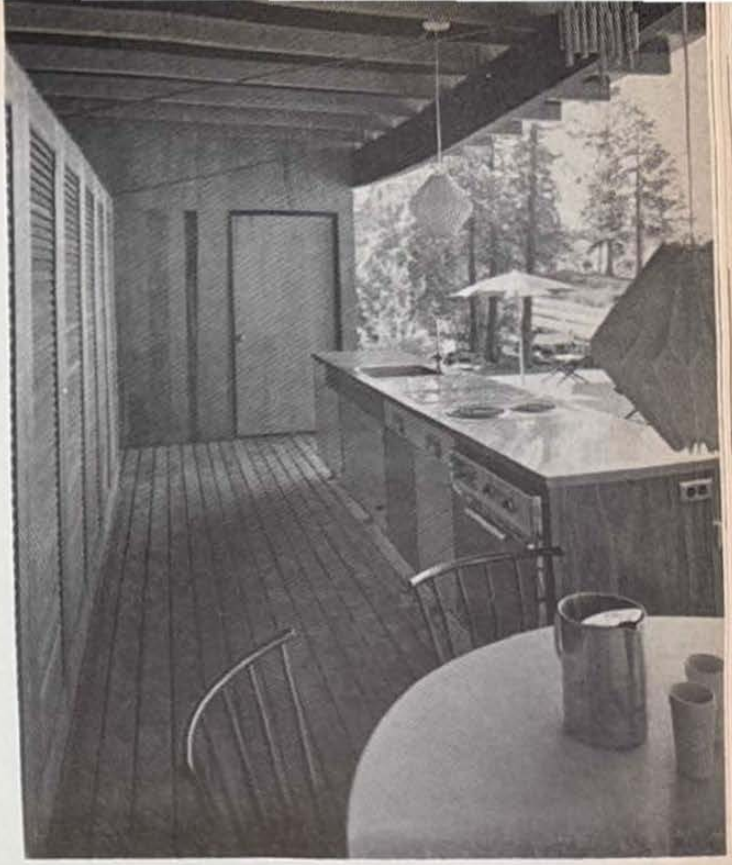
The McClure Plan encloses 96 sq. ft. and embraces 970 sq. ft. of deck; cooki unit is RCA top and griddle, GE oven in stainless steel. Roof is glued laminat beam and purlins, paneling is gumwood, colors, white, black, yellow and orang

TO ROUGH, OR NOT

A recipe for summer living,
Coeur d'Alene Lake, Idaho, b
Royal McClure and Tom Adkison, architect-owne



The Adkison Plan (below) is deck and more deck, with an interesting conversation pit sunk into the deck, and only the storage and lavatory facilties enclosed. Storage units are of cedar, sliding doors are Marlite in angle iron, colors are orange, blue, white and natural. Scattered among the trees are a badminton court, and sleeping platforms for both families.



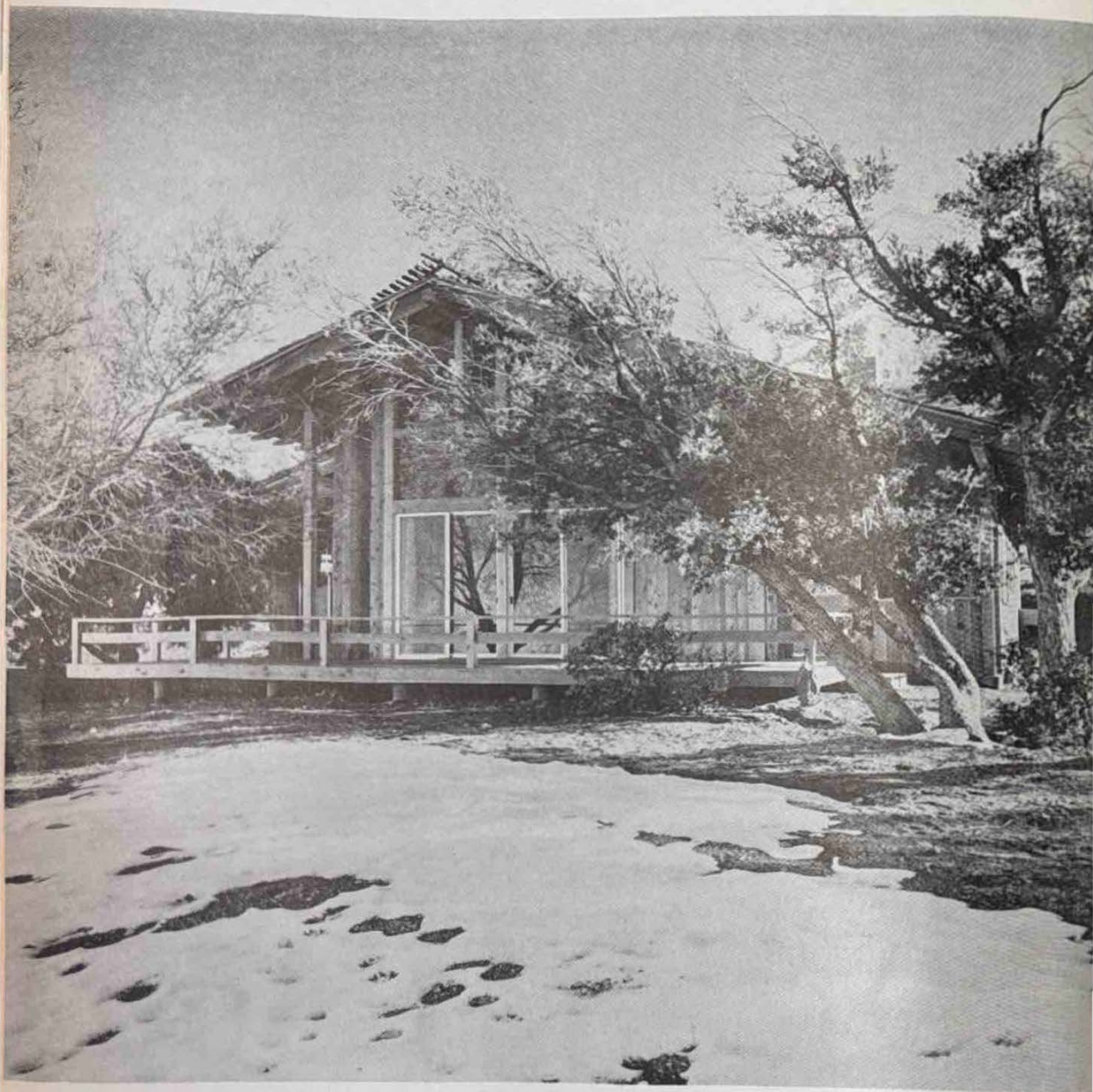
HERE ARE COMPOSITIONS FOR SUMMER LIVING from the creative minds of two experienced architect-camper-outers who like to "rough it" in a gentle fashion. The purpose—to enjoy outdoor freedoms related to embracing water, sky, foliage and the elements; but eliminating the normal camp-out burdens of food preparation and sanitation facilities.

These are simply decks and shelters, with no windows to wash or floors to scrub. On "opening day" in the spring, simply whip off the tarps, remove skylight covers, turn on the pumps, hose down the deck!

When it rains? This is a different kind of living experience, and errant summer storms prove a welcome exhilaration as the camper becomes a participant instead of an observer.

The result: Relaxing weekends that are totally different from activity in the city home, but without burdening any member of the family with the difficult chores that are so common to summer outings.

UGH IT



Contemporary Retreat Merges With The Mountaintops

THIS PICTURESQUE ALL-WOOD HOUSE is located on a 140 acre property in the Los Angeles National Forest, at the 5000-foot altitude in the foothills of the San Gabriel Mountains. The scenery is majestic, the terrain rugged, and temperatures vary from a summer of 110 degrees to as low as 15 degrees in the winter, with occasionally up to four feet of snow.

To meet these extremes of weather the architects selected rough-sawn Western Red Cedar for exterior surfaces, and a roof of heavy Cedar shakes. A continuous skylight running along the apex of the roof incorporates a sprinkler system to spray the entire roof in the event of forest fire.

The use of woods throughout the interior gives character and warmth to the house, and the big floor-to-ceiling windows which open to deck and rear patio lighten the interior and bring in the fine views of the immediate mountain backdrop and across the distant desert, with its striking rock outcroppings and varicolored buttes.

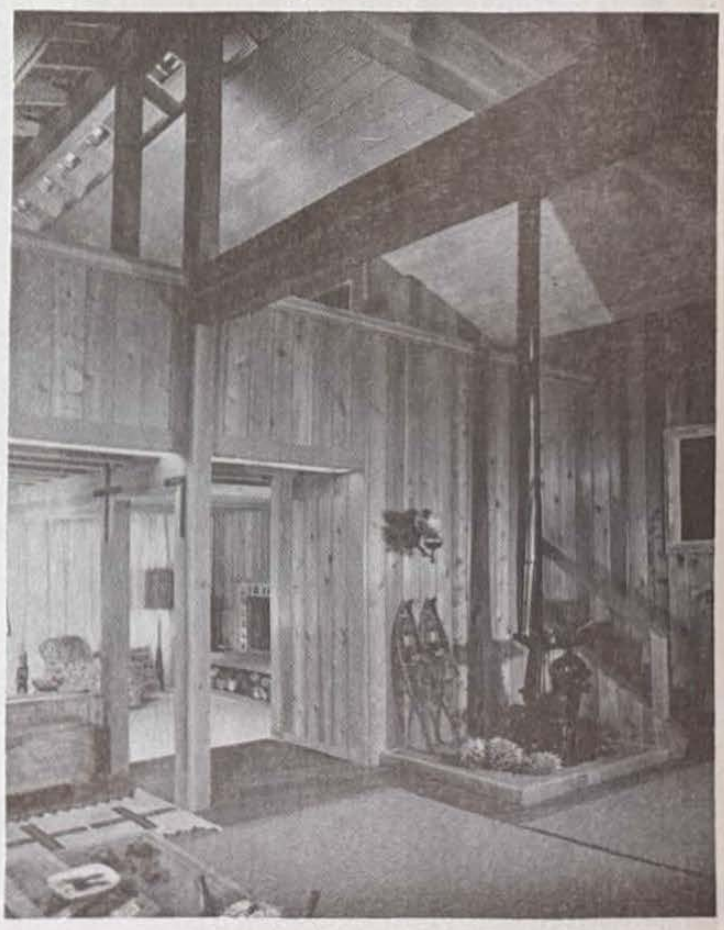
The two-level house has 1970 square feet, with the plan providing spacious living room, family room, kitchen, bedroom and bathroom on the ground floor, with a master bedroom, dressing room and bathroom on the balcony level above.

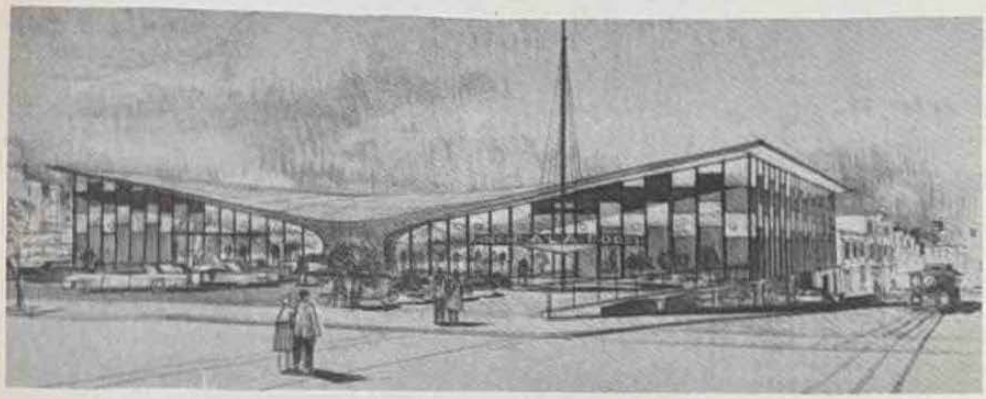
MOUNTAIN RECREATION HOME
Mr. and Mrs. Douglas McFarland
San Gabriel Mountains, California

McFarland-Bonsall, architects

Richard C. Jarrett, general contractor

Douglas M. Simmonds Photos





CALA FOODS MARKET
San Francisco

Dudley Wynkoop, architect, and
Kinji Imada, associate

Catenary Roof Has Visual Appeal at Low Cost

ONE OF SAN FRANCISCO'S most stimulating supermarket buildings—opened last year—has proved to be a real business builder. The success of its architectural appeal prompts review of the unusual methods that were used to make it both attractive and functional at a very low cost—$6.60 per square foot for some 45,000 feet of clear span area on two levels.

The building consists of a lower level parking and service area roofed over to provide a floor for the market and store level parking, and then the store itself, 112x137 feet of clear span space roofed with a flaring saddle shape of unusual interest.

Concrete covered catenary steel strand systems form both the roof and the main floor, providing the interesting shape, and making the clear span possible at low cost.

The structure starts with two spread footings far beneath the lower garage level, supporting two massive (4x12-ft) concrete columns, one at the midpoint of each end of the building. These columns extend upwards through the garage level and up the two ends of the store to a point where they are converted to end beams that flare upward and outward in a Y-shape. The Y-shapes form the front and back of the building. Sides are massive prestressed concrete trusses that lie in the plane of the roof. Catenary strands, tied to the edge trusses, then drape to form a saddle-shaped outline for the roof.

Roof loads are transmitted from the cables into the trusses and to the edge beams and finally to the end columns. Smaller columns along the trusses of the roof structure support against unbalanced loads.

The floor is another type of catenary structure, curving in only one direction instead of forming a saddle shape. It built in four bays, with draped ba sagging between the beams of the bay

Application of concrete to the su porting catenaries was the same both instances. Steeltex (wire me and roofing paper combination) w rolled across the catenary strands a served both as reinforcing and as t form for lightweight Vermiculite a

Myron Brown Ph

Column, flaring end beam, edge trusses, saddle shaped catenary, small columns support unbalanced loads, ramp from basement parking, all are visible he

John Jamison and Chin & Associates, structural engineers

Maclsaac & Menke, general contractors

Phil Fein Photos

Catenaries between bays over the parking area. Ramp to store level at right.

gregate concrete which was pumped onto the roof to become a 2 1/2-in. thin shell. The shell was then coated on the underside with Vermiculite plaster one inch thick, covering the catenary bars.

The floor slab is lightweight concrete three inches thick.

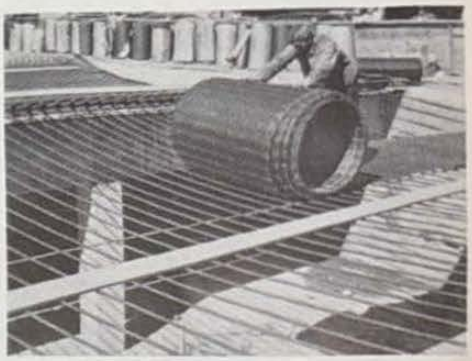
The catenary system was devised and patented by Architect Frank Wynkoop. The roof was formed by 3/8-in. steel (250,000 psi strength) spanning between the trusses, spaced so that at the trusses the strands are 11 1/2 in. o.c., and at the center they are 7 1/2 in. c. to c. The sag was varied from 13 ft. 8 in. at the edges of the building to only 6 ft. 8 in. at the center of the building, producing the saddle shape (the two ends of the building are 26 ft. above the floor level). The extent of catenary sag varied uniformly with the length of the strands suspended from the truss-shaped edge beams—the shortest strand being in the center and the longest strands at the ends. Quarter-inch bars running in the transverse direction were used principally as a construction aid, and falsework templates also were used under the strands to aid in tying steel.

The floor system was built of 5/8-in. mild steel bars placed 7 in. o.c., the bars sagging about 20 inches in a span of 34 ft. Bars are welded to 3/4-in. steel plates cast into the concrete beams.

Side walls of the building are glass and concrete block curtains, and the structure is relatively fireproof, eliminating requirements for sprinkler systems or fire walls.

From the functional standpoint, customers park at the lower level, take a spiral ramp to the store, make their purchases and return to the lower level with a claim ticket. Box boys put the packages in their cars as they leave. Supplies are delivered to the store at the lower level, prepared at that level and raised to the sales space by elevator.

Catenary strands are 3/8-in steel on 11 1/2-in. centers, welded to anchors in concrete trusses.



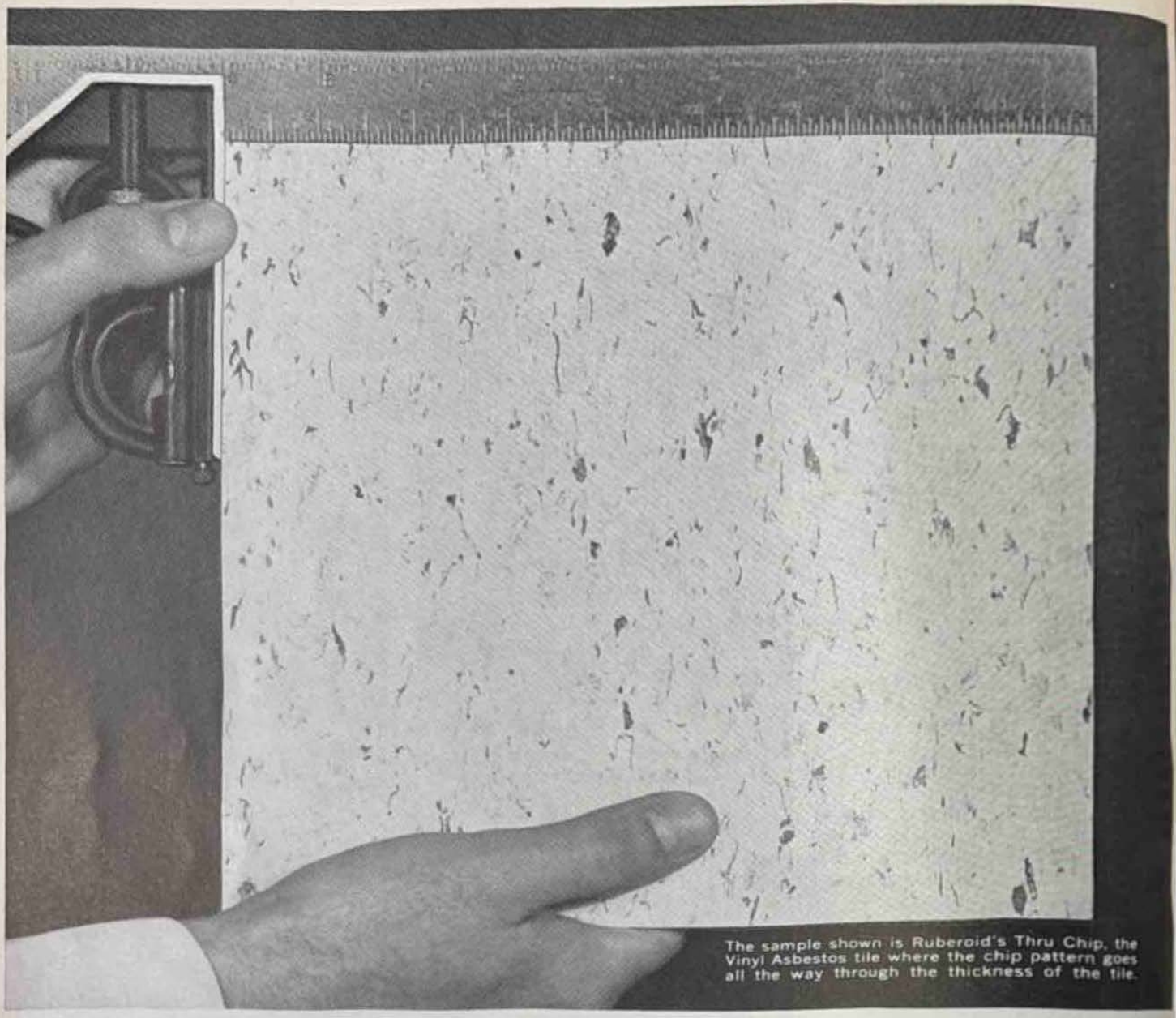
Steeltex (Pittsburgh Steel Co.) wire mesh and paper combination is rolled onto the catenary cables.

Paper and mesh over the cables serve as a form for the concrete structure.

Vermiculite concrete is pumped 2 1/2-in. thick onto the mesh to form shell.

Pumping and spreading lightweight concrete in area of greatest roof curvature.

Vermiculite plaster sprayed onto the underside fireproofs catenary strands.



The sample shown is Ruberoid's Thru Chip, the Vinyl Asbestos tile where the chip pattern goes all the way through the thickness of the tile.

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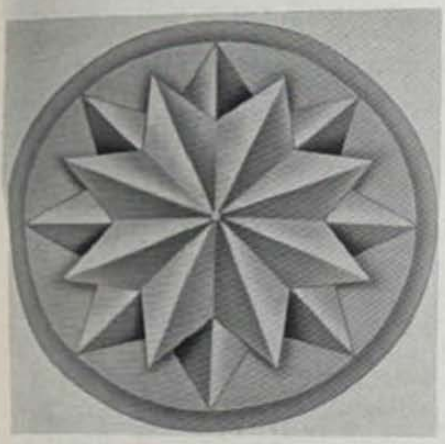
the spiral stairway

For exterior spiral stairway installations the PresTeel stairs are manufactured in stock sizes from 3 ft. 6 in. to 6 ft. in diameter at 6 in. intervals, with all necessary details and fittings furnished, bundled and marked before shipment for ease of installation. Most components are interchangeable due to standardization of design. Several types of treads are offered, including safety plate and open grating. Risers may be open or closed for a greater sense of security and safety in stairs of exceptional height. PresTeel stairs are also available in aluminum.—Woodbridge Ornamental Iron Co. (A/W), 2715 N. Clyburn Ave., Chicago 14, Ill.

simplified partitions erection

One-piece, slotted drop-in type Milcor Partition Tracks simplify and speed installation of both solid and hollow plaster partitions constructed with metal lath. Rectangular retaining slots hold the studs without need for ties or other supplemental fastening at the floor line. Milcor Tracks are of galvanized steel and come in 10 ft. lengths. The inverted channel design provides support for sides so that they firmly resist damage from on-site traffic after installation.—Inland Steel Products Co. (A/W), 4157 W. Burnham St., Milwaukee 1, Wis.



refined diffusers

Unlike conventionally designed ceiling outlets, the starlike appearance of Astro-Air diffusers blend with most interior motifs without calling attention to the mechanical installation. Made of etched aluminum finish, they can be supplied in any color to match decor. Built-in anti-smudge mounting pans, circular for plaster ceilings, square for tile ceilings, minimize ceiling dirt streaking. They offer efficent, noiseless, draftless air distribution.—Air Devices, Inc. (A/W), 185 Madison Ave., New York 16.

outdoor, indoor floors

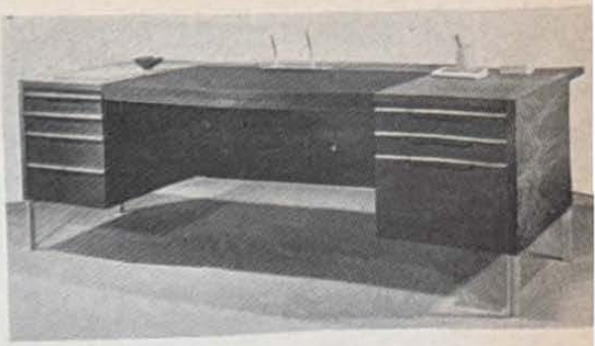
Shellflor, a new system custom designed to meet specified requirements, is the culmination of years of research and application testing of a multi-purpose industrial flooring system. A heavy-duty monolithic wearing surface, it is installed in a thickness of one-half inch. Shellflor can be installed either indoors or outdoors, over any structurally sound surface such as concrete, brick, hot or cold asphalt mastic, wood or metal. Under normal indoor temperatures, it is ready for light service within 24 hours and for heavy traffic within 48 hours. It is easy to clean and fire resistant. Built-in color does not fade or wear off and the floors are unaffected by normal temperature changes. Bond is maintained under thermal and physical shock.—Shell Oil Co. (A/W), 50 West 50th St., New York 20, N.Y.

non-skid decking

Designed especially for economical construction of safety surface boat docks, decks and floors as well as other decking and walkways exposed to weather, Skid Guard, a non-skid plywood decking, adds safety in plants and factories where industrial floors are exposed to corrosive liquids. Other suggested applications are in athletic locker rooms near showers, swimming pool decks, service stations and garages, wherever firm footing is mandatory. It can be sawed, nailed, screw fastened or glued, shaped, jointed or edge-planed. Available in natural tan, brown or black, standard size is 4'x8' in usual full plywood thicknesses.—Simpson Timber Company (A/W), 2043S Washington Bldg., Seattle 1.

exposed shower

Exposed design of the Showerpac simplifies construction of tile walls, minimizes piping problems, and eliminates any need for mechanical space behind walls. Especially designed for use in institutions, schools, clubs, hotels and other commercial and industrial buildings, the Showerpac is available in 12 models with or without integral volume controls which regulate the volume of water. Built-in soap dish is optional. All models are equipped with the Anystream shower head which permits instant adjustment of spray from full flood to needle. The Showergard mixing valves, designed for safety and which automatically protect from sudden water changes, are standard in all units.—The Speakman Co. (A/W), Wilmington 99, Delaware.



for the executive

Designed by Mel Bogart, nationally recognized industrial designer, the B F C Line of contemporary executive desks features a unique, all-new leg system that is part of a structural aluminum cradle on which the desk is fastened. Black inlaid linoleum top which fits flush with the surface of the desk, eliminating need for a pad, is a feature of these desks. All drawer pulls are recessed. Desks are constructed of wild-heart, black walnut and have a black oil finish. Legs and drawer pulls are of extruded, mirror-polished aluminum. Five desk pedestals are available at owner's option. Free-standing side units are available in same configurations as desk pedestals.—Hiebert, Inc. (A/W), 17001 Yukon Ave., Torrance, Calif.

foundation ventilator

A foundation ventilator designed to keep crawl spaces dry in basementless homes and for both roof space and wall ventilation in industrial buildings, Blok-Vent can replace a concrete block and can be immediately mortared in place as the block foundation is laid. Installation is fast and easy since the need for a lintel is eliminated. Special frame angles greatly increase strength and provide a positive permanent lock in the surrounding mortar. Blok-Vent's louvered sections are inter-connected and will easily adjust to desired opening. It is constructed of heavy gauge galvanized steel and supplied with 8-mesh screen. FHA minimum property standards are met.—Leslie Welding Co. (A/W), 11241 W. Melrose St., Franklin Park, Ill.

wc air conditioner

Don't neglect air conditioning where it may be needed most! A new silent system can be preassembled in a closet's water tank, and involves no added cost for on-the-job piping or special installation procedures. The "Nu-Aire" is activated manually with the closet flush handle and shuts off automatically upon flushing. Water supply and pressure is the same used in ordinary closets.—Briggs Manufacturing Co., (A/W), 6600 E. 15 Mile Road, Warren, Mich.

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decorative flooring

Architectural flooring that resembles classic terrazzo but is said to provide four times the wear resistance and one-eighth the square foot weight, requires no recessed slab and is poured and troweled without dividers or expansion joints. Terrazzite is claimed to be moistureproof, nonporous, stainproof, greasproof, nonabsorbent, and approximately as dense as plate glass. Terrazzite can be laid as soon as the subsurface is ready to accept it, and will bond permanently to virtually any surface that can be made clean and dry. Wall partitions may be installed later without any special floor protection required.—Terrazzite Association of America, Inc. (A/W), 2203 W. Malone St., San Antonio 25, Texas.

firestop

Gypsum board, reinforced with highest glass fiber content, has increased fire resistance to permit two hours when used in ⅝-in. thickness, in a single layer application in incombustible floor and ceiling assemblies. Called "Firestop", the gypsum board was tested by Underwriters' Laboratories passing fire resistance tests, hose stream and double overloading tests for an official 2-hour rating. "Firestop-120" ceiling tile met the same tests, and in addition provides low maintenance and sound reduction. Ceiling tile is available in 24"x24" panels easily installed on exposed grid systems.—Bestwall Certain-teed Sales Corp. (A/W), 120 E. Lancaster Ave., Ardmore, Pa.

space screens

Bound and framed with an exclusive engineered system of natural or gold aluminum extrusions, FiliGrille styrene grillework adapts to a wide range of functionally decorative needs. It is attractive for semi-privacy space separation, traffic control, ornamental accent and sight-screening. Units are factory fabricated to order and tailored to specified shapes and sizes. The grillework is also available in sliding panel units, doors and gates, and is suitable for either interior or exterior applications. Three patterns are offered in basic white styrene, or in colorful factory-applied acrylic finishes.—Holcomb & Hoke Mfg. Co. (A/W), Dept. U-2, 1545 Calhoun St., Indianapolis 7, Ind.

care-free ceilings

Lo-Tone mineral acoustical ceiling products are vinyl coated to create ceilings that resist dust, dirt and oil penetration. They are easily cleaned with damp sponge, cloth or eraser. The non-combustible tiles and boards are suitable for schools, hospitals, office buildings, hotels and other str tures where ceiling areas require peated cleaning. The clear vinyl sprayed on and fused to the t surface in high-heat ovens to prev flaking or peeling. Lo-Tone tiles available in Constellation pattern, in. thick, 12 in. x 12 in. butt, kerfed rabbeted. Ceiling boards are s thickness, 24-in. x 48-in.—Wood C version Co. (A/W), First Natio Bank Bldg., St. Paul 1, Minn.

theatrically speaking

Designed specifically for use in t atres and auditoriums, Calstar colu speakers provide a constant verti coverage angle at all frequencies a a minimum of sound output eve where outside the coverage ang Tailoring the exact input sig distribution to each individ speaker unit provides the fi shaping of the radiation patt to achieve both objectives. The re is a column speaker with unifo music and speech intelligibil throughout the predicted audie area and a reduction of echo, rev beration and system feedback.—C mercial Sound Products Dept., Jen Manufacturing Co. (A/W), 6601 Laramie Ave., Chicago 38.

embossed walls

Abstract, a new design in Weldwo Tapistron wall covering, is a patte of interlocking rectangles, both hor zontal and vertical, embossed into t vinyl for a carved, high relief effe The new design comes in shades brass, lime, autumn gold, pumpki antique white, sand, moss green, bitt chocolate, driftwood grey and da teal. Recommended for installation areas such as reception rooms, lobbie hallways and other public areas whe durability, washability and easy mai tenance are important.—U. S. Ply wood Corp. (A/W), 55 W. 44th Stree New York 36, N.Y.

• **Carmel Steel Products:** The Downey, California firm has been named distributor in Southern California for a line of colorful steel horizontal sliding windows manufactured by Rusco Industries, Inc., Cleveland, Ohio. C. B. LeBon, Carmel president, states that the new line will augment the steel sliding glass doors manufactured by Carmel.

• **Wailes Precast Concrete Corp.:** The Los Angeles firm, manufacturers of precast architectural facings and prestressed concrete structural members for architecural application, has been purchased by International Pipe and Ceramics Corp. (Interpace). The company will operate as a wholly owned subsidiary with Charles D. Wailes continuing as president. The acquisition of Wailes will extend the building products line now manufactured by the Gladding, McBean ceramics division.

• **Metalframe:** Robert L. Alexander, president of the Los Angeles firm, recently named Leonard C. Maynard as general sales manager of the company. Mr. Maynard was formerly technical sales manager for Lockheed architectural products and district sales manager for Soule' Steel Company. Metalframe, located at 5832 E. 61st Street, manufactures custom metal curtain wall, window wall and facade systems.

• **Joseph T. Ryerson & Son, Inc.:** Herbert W. Nelson, Jr., has been appointed manager, reinforcing products sales department at the Seattle plant, according to Robert T. Stafford, Seattle general manager. Before joining Ryerson Mr. Nelson had been a structural engineer with Stevenson & Rubens, consulting engineers, and a district engineer with Bethlehem Steel Co., both at Seattle.

• **Forrest Industries, Inc.:** Raymond T. Denner has been named sales representative in Oregon, Washington and Idaho for the Dillard, Oregon firm, manufacturers of building materials.

• **Marvin Electric Manufacturing:** P. Docimo has been named vice president of the Los Angeles firm. He has been with the firm seven years, serving as plant manager, a position he will continue to fill.

• **Marsh Wall Products, Inc.:** Harold A. Lyons has been appointed sales representative for Marlite wall and ceiling panels in eastern Washington, Montana and Alberta, Canada. He will work out of Spokane.

• **Georgia - Pacific Corp.:** Effective March 1, Jim Watterson was promoted to advertising and promotion assistant, and Gerald Griffin to production assistant, at the Portland office.

• **Bethlehem Steel Co.:** William C. Pfaff, works manager at the Seattle fabricating plant, has been appointed manager of the Alameda works, succeeding R. M. Klitgaard who has been named manager of the Torrance works. Announcement was made by I. F. Kurtz, manager, fabricated construction, Pacific Coast division.

• **American Fabricators Company:** The Bellingham, Wash., firm was one of the Merit Award winners for its display at the 24th National Conference on Church Architecture in Seattle in March.

• **Armstrong Cork Co.:** David O. Johnson, president of Johnson Acoustical & Supply Co., Portland, has been appointed as western representative for the Armstrong advisory committee for 1963. This national committee, comprised of five individuals representing various sections of the United States, serves in an advisory capacity in procedures and policies covering the sale of acoustical products.

Lots of stains are cheaper than Olympic

(If money is no object, go ahead and use one)

In the can, Olympic is more expensive than some stains. On the job, it's the least expensive by far. That's because Olympic lasts years longer than ordinary stains. (Even longer than shake paint.) The reason? Ingredients. There's more pigment, more pure linseed oil and more preservative in every can of Olympic Stain. Small wonder then that Olympic keeps homes looking beautiful years longer without refinishing. And costs less per year than any other stain on the market.

OLYMPIC STAIN, 1118 N.W. LEARY WAY, SEATTLE 7, WN.

• **Pomona Tile Co.:** Dale Ranney has been named manager of the Sacramento branch succeeding Jose Shettlesworth, who has resigned.

• **Kaiser Steel Corp.:** The newly formed Construction Division will be headed by Francis J. Murphy with offices in the Kaiser Center, Oakland. He is a registered Civil Engineer, member of the American Society of Civil Engineers and the Structural Engineers Association.

• **Lasco Industries:** A 33,000 sq. ft. addition to the plant and headquarters building at Montebello, California, will accommodate increased production requirements and provide for further diversification, according to Roderick Lynch, president. Lasco is one of the west's leading manufacturers of plastic pipe and conduit, fiberglass building panels, and chemicals.

associations

• **Tile Council of America:** C. W. Planje, Los Angeles, International Pipe and Ceramics Corp., has been elected one of the eight directors of the national association.

• **Asphalt Roofing Industry Bureau:** Eleven western states will be served by the newly formed Western States Committee of the bureau. Purpose of the new group is the promotion of the use of asphalt shingles. Ralph E. Heim, Fibreboard Paper Products Corp., is chairman of the committee. Other members are Charles Imlah, Pioneer Division, Flintkote Co., vice chairman; M. L. Courington, Jr., Celotex Corp.; George Lane, United States Gypsum Co.; H. W. Mattice, Johns-Manville Sales Corp.; Clair Stout, Bestwall Certain-teed Sales Corp., and George Thagard, Jr., Lunday-Thagard Oil Co.

• **Unit Masonry Association:** Robert DeBoer, Graystone-Seattle, Inc., has been elected president of the Unit Masonry Association of Seattle. Also elected: Fred Frodesen, Mason Contractors, vice president; Frank Steffen, Mutual Materials Co., secretary; Clyde Hamletter, Seattle Bricklayers Union No. 2, treasurer.

• **California Redwood Association:** Dr. Harold B. Gatslick, of the University of Massachusetts, has become Project Director—Coatings and Treatment. Dr. Gatslick, widely known authority on wood technology and wood finishing, will act as source of technical information on wood for chemical and coatings industries and will carry on CRA's finish research program.

Architecture / West

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Architecture / West

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A/W

THE ONLY MAGAZINE DEVOTED EXCLUSIVELY TO WESTERN ARCHITECTURE ◆ JUNE 1963

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Business data on page 38

THE COVER: Stauffer Chemical Research Center, Richmond, Calif./Gerald M. McCue & Associates, architect. Karl Riek photos. See page 16.

ABOUT THIS ISSUE: The "Quest for Quality" which highlighted the national convention of AIA in Miami last month has been adopted as the theme for this issue of A/W, partly because our convention coverage (page 12) leads off the feature section, and more importantly because we are featuring several buildings this month that seem to emphasize more than the usual amount of architectural and contractor integrity.

We're certain the Stauffer Chemical research laboratory (starting on page 16) is as strong a building as we have reviewed in many months, strong in character, line and material. The Pacific Gas Transmission control headquarters is straightforward and simple, but alive with good detailing and with color that won it a merit award for the "creation of a pleasant working atmosphere."

The Covington Elementary School is a full sized structure that through design seems scaled down to the size of its little inhabitants . . . page 27.

While we recommend all of these as important reading, we think our readers will be most thoroughly intrigued with Marcia Kober's witty interpretation of the "architect — Melvyn Douglas — image" which she developed to describe a "way out" place for architects to hang their hats. Page 10.

A pair of unusual vacation buildings, a rustic but luxurious motel in Oregon, and a simple but interesting ski lodge in Idaho—both utilizing wood to the fullest—round out the feature section.

NEXT MONTH: Broadview Community Church in Colorado Springs, a striking marriage of timber and rock.

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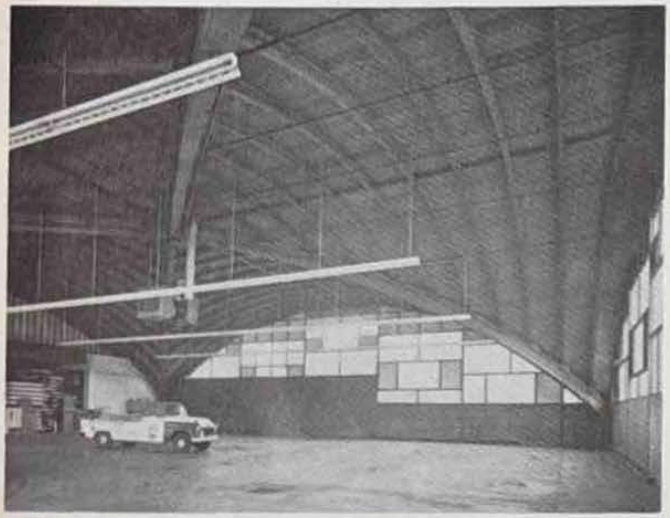

Warehouse and loading depot of Pepsi-Cola Bottling Company, Portland, Oregon. Architects: Scott and Payne, Portland. Engineer: James Pierson. Contractors: George A. Moore and Associates, Portland.

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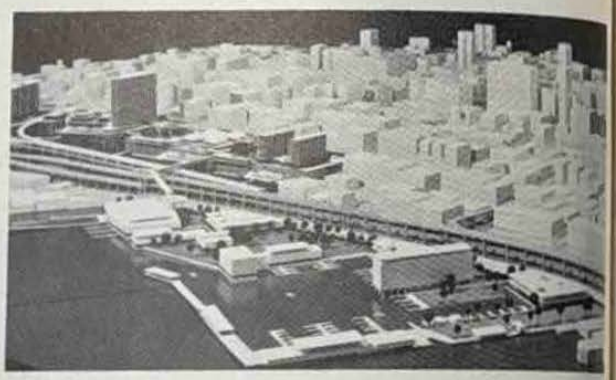
THE BUILDING MONTH

Highlights & Sidelights

NINE CITIES AMONG THE LEADERS—Across the nation, among the 20 leading cities in the valuation of building permits issued during the first quarter of 1963, nine are located in the west. These nine cities total $476.9 million as compared with $1392.9 million for the remaining 11 agencies, or more than one-third of the nation's building located in the 13 western states. Los Angeles leads the entire nation with a valuation of $252.9 million, about $70 million more than New York City, second on the list. The other west coast cities with total valuation are: Honolulu, $35.1; San Francisco, $33.2; San Diego, $29.4; Phoenix, $28.1; San Jose, $23.4; Long Beach, $23.7; Seattle, $23.5; Denver, $21.6.

JAPANESE TOUR WITH HONG KONG EXTENSION—The Ninth Annual Architecture & Gardens Tour of Japan will leave from Los Angeles or San Francisco on October 6. Under the directorship of Pasadena architect Kenneth M. Nishimoto, the deluxe 25 day tour will visit buildings of architectural significance and both old and new gardens. Conferences with Japanese architects have been arranged for exchange of views. Extra tour features include a daylight cruise through the Inland Sea and a special post-tour extension to Hong Kong. Information may be had by contacting Kenneth Nishimoto, 264 S. Los Robles Ave., Pasadena, California.



THE NEXT 20 YEARS—Downtown Seattle will have approximately 8 million square feet of floor space added to the heart of the city by 1985; new building construction of about $271 million and an estimated $135 million additional in reconstruction. About 21,000 new jobs would be created for a total of 84,000 in the downtown area with a total payroll of $420 million annually. All this, of course, if the Downtown Plan, conceived by the Central Association of Seattle in cooperation with city government, is acceptable to private and public interests in the central business district.

Envisioned is a compact Central Area for maximum efficiency, utilizing improved traffic lanes and parking, close-in living, waterfront improvements, redevelopment of older, blighted commercial areas, and parks and plazas to create a new Seattle personality.

An integral part of the plan will be the adoption of new zoning proposals. Currently, Paul Seibert, executive vice president of the Central Association, reports that the zoning is being resolved to apply on the Central Business District plan. It is hoped that the plan will be adopted and included in the city's total comprehensive plan within the next two months. If this is accomp

lished, public improvements in accordance with the priorities would then be scheduled. The Association, composed of business leaders in the community, believe the plan as presented would strengthen the city's tax base and that outlying communities would benefit from its adoption since one out of every four jobs is in downtown Seattle and since approximately 80% of money earned in this area is spent within a mile of the wage earner's home.

The plan, developed under the direction of Planning Consultant Donald Monson, on leave from the New York City Planning Commission, has been the result of many thousands of man-hours, presented after 27 other alternatives were tested by the City Engineering Department.

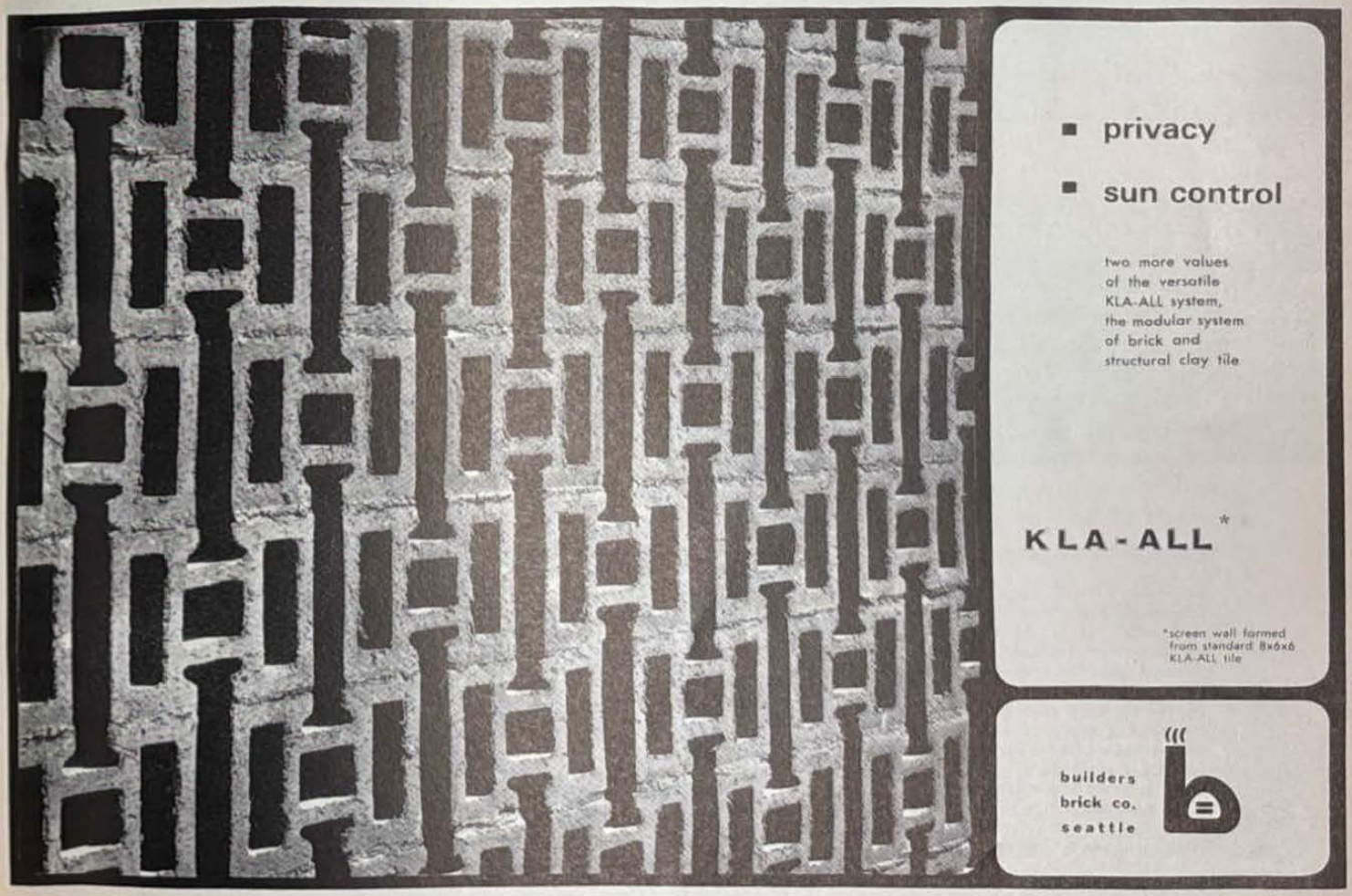
SPORTS AND CULTURAL CENTER OKAYED—The $25 million Oakland-Alameda County Coliseum has been given the go-ahead by a historic decision handed down by the County Board of Supervisors and the City of Oakland to join together in underwriting the cost of the center. Working drawings are under way by Skidmore, Owings and Merrill while awaiting final clearance on a court test of the financing program, to become joint county-city property once the bond issue is paid off. The Coliseum, to be located on the Nimitz Freeway near the Metropolitan Oakland International Airport will include a 4,800 seat double-deck stadium, and a 13,800 seat arena linked by a restaurant.

REMODELING SPREE—American homeowners are expected to go on a multi-billion dollar remodeling spree this year, if all estimates by the U.S. Commerce Department come true. Alterations and additions to homes will see something like $5.6 million spent over the nation.

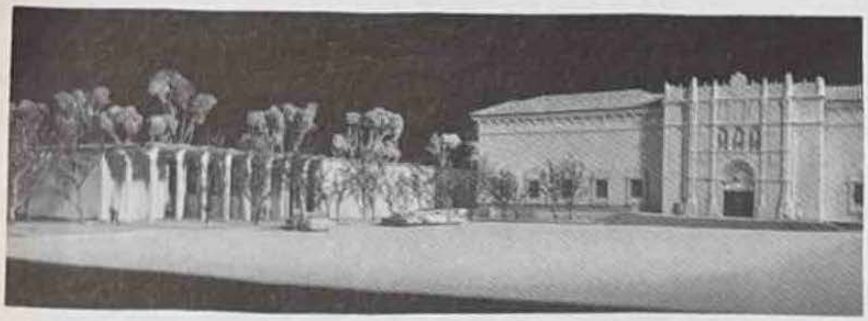
ASPEN IMAGES—"Design and the American Image Abroad" will occupy attendants at the 13th annual International Design Conference in Aspen, Colorado, on June 24-28. Featured panelists will include Arthur Schlesinger, Jr., special assistant to President John F. Kennedy, and architect-industrial designer Eliot Noyes, together with leaders in the fields of design, motion pictures, publishing, government and the arts, both from this country and abroad. Registration fee, after June 1, is $85; students' rate, $10. Address all queries for accommodations and other information to the Aspen Chamber of Commerce, Box 739, Aspen, Colorado.

DEGREE OFFERED IN BUILDING TECHNOLOGY—The College of Architecture and Urban Planning at the University of Washington will offer at the fall quarter a new four-year program culminating in a Bachelor of Science degree in Building Technology and Administration. Objective of the course is to develop graduates urgently needed in the building industry with a comprehensive knowledge of the five basic areas of the building industry—development, design, construction, supporting industries and government. The curriculum is divided into three main areas with the required courses including architectural theory and appreciation, structural design, building construction, mechanical equipment, urban planning, the humanities, business administration and economics.

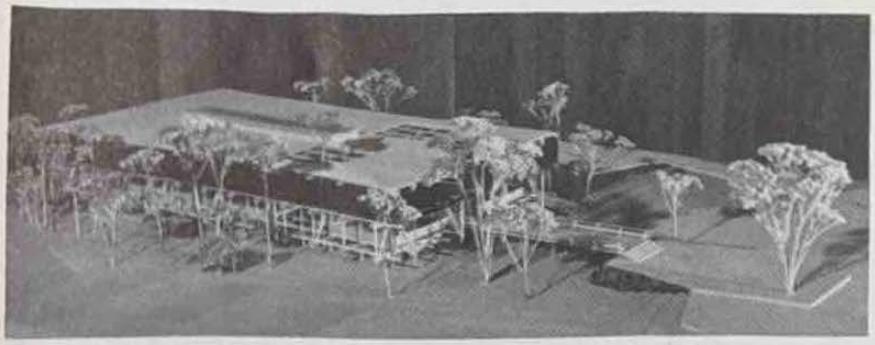
CONSULTING THE CALENDAR—**American Institute of Building Design** annual convention, Lafayette Hotel, Long Beach, Calif., July 25-28. Registration and/or inquiries should go to the AIBD Convention Offices, 2711 Olive St., Huntington Park, Calif. . . . Southwest Washington Chapter, AIA, **12th annual regional conference,** Hyatt House, Seattle, Sept. 8-11.



PROJECT PREVIEW



ELEVEN STORY APARTMENT in Phoenix will feature a swimming pool on a raised structure with access from third floor recreation room. The 80-unit project will house one and two bedroom apartments and four penthouses, all serviced by two elevators. Parking on ground floor. Architects: Chopas & Sarkovich, Phoenix.



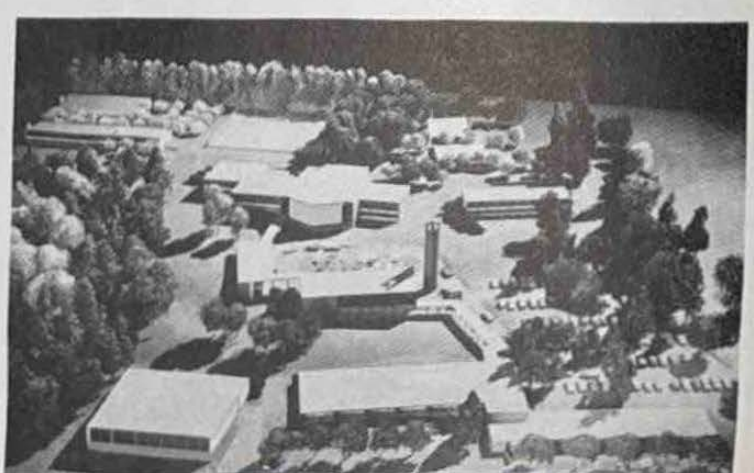
WEST WING ADDITION to San Diego Fine Arts Gallery retains continuity of present structure with arcades, exterior spacial relationship between buildings, luxuriant plant material and light and shadow contrast by means of skylights spotted along passageways. Spanish influence is reflected in hand-carved fasciae, ornamental designs and cast concrete columns blending with established building module. Architects: Robert Mosher and Roy Drew, La Jolla.

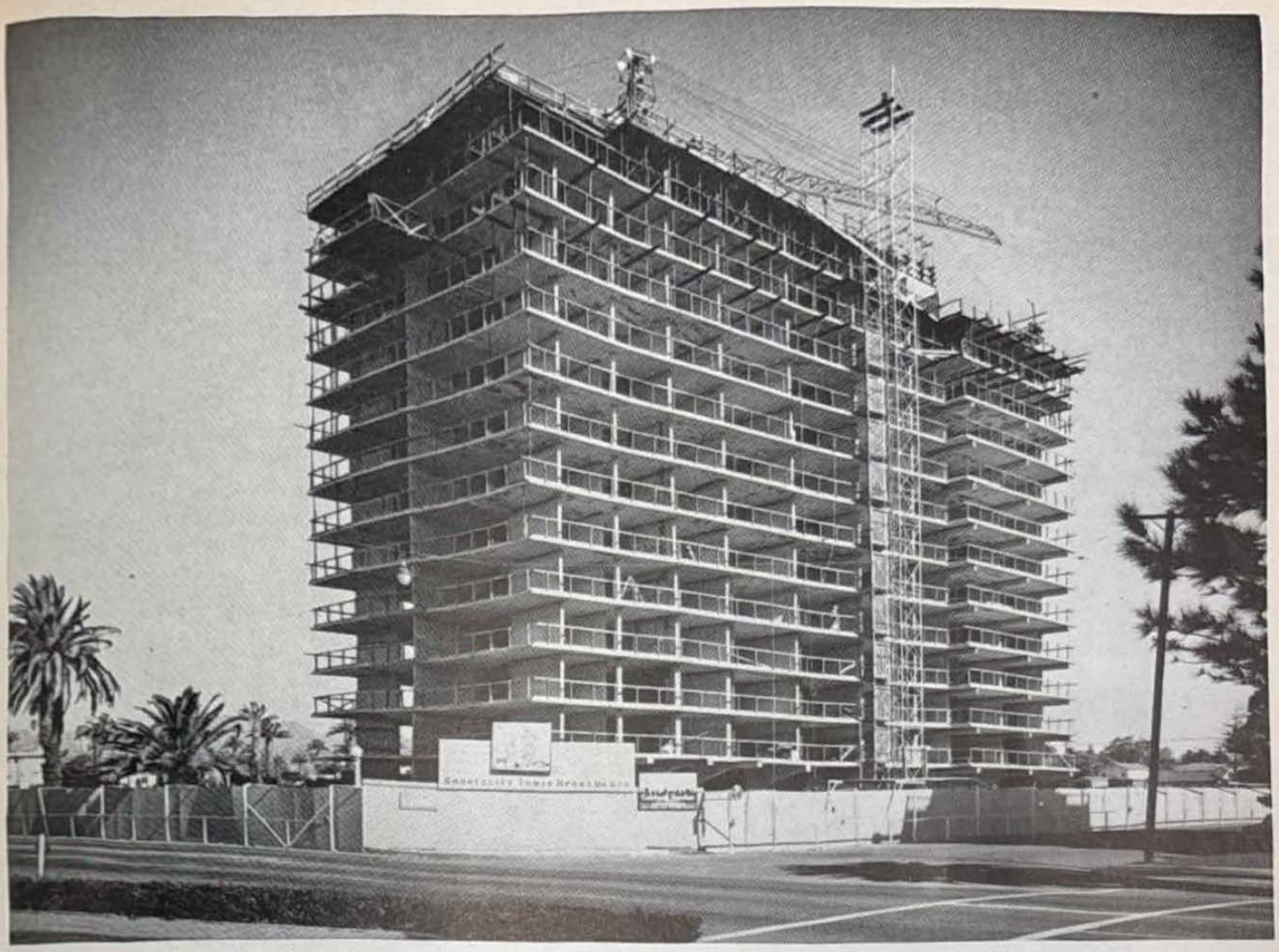
FOREST SCIENCE BUILDING at University of Washington, Seattle, will be of forest wood products, on a campus primarily of brick and stone buildings. Graduate research offices are on outside walls, surrounded by grey glass, with interior spaces devoted to research laboratories. Building cost: $480,650. Architects: Grant, Copeland and Chervenak, Seattle.

MUNICIPAL OFFICES in Bellevue, Washington, start with first phase planned for Civic Center, providing for orderly expansion of facilities for a town of 15,000 to 150,000. Center includes office building, Council-Justice Court meeting area, and the elliptical Town Forum building. Eight acre site ultimately will have library, auditorium, recreation building, jail, fire and utilities department. Architects: Ridenour and Cochran, Bellevue.

CAMPUS COMPLEX AT PORTLAND

St. Helen's Hall, Episcopal coeducational school for pre-school through high school, is located on a 30 acre wooded site, southwest of Portland. Chapel, Administration Buildings and bell tower are situated in heart of campus, with Upper School on a hill above playground, facing north. The Lower School and Pre-School are adjacent, with separate dormitories for boys and girls, the infirmary and staff housing, and lecture hall, grouped close together. A gymnasium, swimming pool, tennis courts complete the complex. Architect: Lewis Crutcher, Portland.





Project: Shorecliff Tower Apartments, 535 Ocean Blvd., Santa Monica. Owners: Ralph W. Kiewit, Sr. and Ralph W. Kiewit, Jr. Architects: A. Quincy Jones, AIA & Frederick Emmons, AIA. Structural Engineer: Richard R. Bradshaw, Inc. General Contractor: Peter Kiewit Sons' Company

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The walls of the Shorecliff Tower Apartments were formed by the slip-form technique which speeded construction and at the same time provided the structural support system.

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Mezzanine-Placer Hotel, Helena, Mont. • Suite 705-5301 Central, N.E., Albuquerque, New Mexico

firm changes

Howard R. Lane and Associates will continue the practice formerly conducted as Lane and Schlick, architects, at 15840 Ventura Blvd., Encino. Nathaniel Abrahms, senior staff member, will assume activities of retiring partner, E. Ray Schlick, as director of production.

Victor L. Shill and Frank Miller have been named associates in the Mesa, Arizona firm of Horlbeck-Hickman & Associates. Offices are in the V.N.B. Building.

Jack Lipman has been re-assigned from the London, England, office of Daniel, Mann, Johnson & Mendenhall, to a permanent post in the Los Angeles office, where he will be Projects Director for commercial and industrial projects.

Raymond L. Steinbeigle has become an associate in the Mesa, Arizona firm of Martin Ray Young, Jr. & Associates.

The Albuquerque firm of Robert Guy Biddle announces the association of Donald M. Shaffer as vice-president, and the change in name to Robert Guy Biddle & Associates. The firm is located at 414 San Mateo Blvd. N.E.

A change in name from Langhart & McGuire to Langhart, McGuire and Hastings has been made with the association of James M. Hastings, P.E. The firm has moved to 1716 Boulder Street, Denver.

John Collier has become a principal member of the architectural firm of Van Bourg/Nakamura & Associates, Berkeley. He is an associate of the Royal Institute of British Architects.

honors and awards

Frank Stanton, Seattle architect and specifications specialist, has been advanced to Fellow of the Construction Specifications Institute. He is the first CSI member in the Northwest to be accorded this honor, according to Clarence H. Irwin, President, Puget Sound Chapter, CSI.

Winner of a $100 reward for a trade name for Pearcelite marble, Glendale manufacturers, was John Rollow of Robert E. Alexander, FAIA, and Associates, Los Angeles.

Edward C. Bassett, a partner in the San Francisco office of Skidmore, Owings and Merrill, has been named winner of the National Institute of Arts and Letters annual Arnold W. Brunner Memorial Prize, a citation and $1000 to an architect who shows promise of contributing to architecture as an art. Bassett, who designed the Crown Zellerbach Building in San Francisco, worked as a designer with Eero Saarinen and Associates before joining SOM in 1960.

Lois W. Langhorst, a member of the department of architecture at the University of California at Berkeley, has been named recipient of the $2000 Rehmann scholarship by the AIA. Mrs. Langhorst plans to use the scholarship for research and travel.

Two fourth-year design and architecture students in the University of Southern California's school of architecture have been awarded traveling fellowships. Richard W. Smith has received the third annual $2500 Rapid Blue Print Traveling Fellowship for a year's study abroad and John Adams Jerde is the recipient of the USC Architectural Guild's $3500 traveling fellowship.

miscellany

In special ceremonies arranged by Howard Morgridge, president of the Southern California chapter, AIA, the maroon ribbon of Fellowship was presented to William Grey Purcell, Pasadena architect, upon whom the Institute recently conferred the honor. Mr. Purcell, who is 83 and in ill health, was unable to attend the presentation ceremonies at the Miami convention. The honor was conferred by Henry L. Wright, retiring president of the Institute, assisted by Regional Director C. Day Woodford, Los Angeles.

Retiring after 43 years service in the architectural profession, is Allen L. McGill, associate and project architect with Albert C. Martin, FAIA, and Associates, the Los Angeles firm he joined in 1946.

Professor Theodore J. Prichard, head of the Department of Art and Architecture at the University of Idaho, and a member of the faculty for 37 years, was recently honored at a dinner sponsored by his students. Architects from all over the Northwest joined in the tribute to Professor Prichard "who has always managed to impart a solid philosophy of life along with the techniques for constructing solid buildings."

Craig Ellwood of Craig Ellwood Associates, Los Angeles, has been named a juror on the panel to select the winning entries in the 1963 Scholarship Awards Program for Architectural Students sponsored by the Portland Cement Association.

new addresses

The joint firm of Lemmon, Freeth Haines and Jones, AIA, and Bel Lemmon and Lo, engineers, is now located in a building of their own design, the First National Bank Building, Honolulu.

Manuel P. Mendez to 1807 W. Katella, Anaheim.

J. Richard Shelley to 4311 E. 17th St., Long Beach, Calif.

George Wiseman to Suite 28, 82 Dover Drive, Newport Beach, Calif.

Maurice Zorman, to 224 S. Hamel Drive, Beverly Hills, from Los Angeles.

Jon Danielson to E. 1124-28th Ave. Spokane.

Dennis M. Brown to 42 Nieto, Long Beach, Calif., from Seattle.

Haas: Greenfield:Associates/Architecture to 73 West Valley St., Pasadena.

James D. Gibans to 45 Nineteen Ave., San Francisco, from Greenbrae Calif.

Carolyn Brink to 5431 Village Green, Los Angeles.

Stanley Ring to 7856 Ivanhoe St. La Jolla.

Tor Westgaard to 4260 E. Evans Ave., Denver, from Alamosa.

Southern Calif. AIA plans replacement Neutra librar

Replacement of Richard Neutra extensive library, destroyed by fi in March, is being undertaken by h colleagues in the Southern Californ Chapter of the AIA. Howard Mor ridge, president, has appointed A Quincy Jones, FAIA, to head a com mittee for this purpose.

Prospective donors should send list of possible contributions, inclu ing author, title, publisher and dat as well as name and address of donor Books and periodicals should cove the broad subject area of the origin Neutra library. A master file will b compiled and donors advised of th title they should send, thus avoidin duplications. **Donors should wait fo a reply from the committee.**

All lists and queries should be ad dressed to:

A. Quincy Jones, FAIA, Chairma
AIA Committee to Rebuild
Richard Neutra Library
12248 Santa Monica Blvd.
Los Angeles 25, Calif.

T-SQUARE TALK

appointments

Albert B. Thomas, of the Sacramento firm of Barovetto and Thomas, has been named a member of the National Panel of Arbitrators of the American Arbitration Association.

Robert Lewis Bliss, architect and instructor, will become head of the Department of Architecture at the University of Utah effective July 1. Mr. Bliss, a graduate of M.I.T., will assume the post now held by Roger Bailey, FAIA. Mr. Bailey, 65, will remain on the faculty devoting time to graduate research programs involving psychology and architecture. He also plans to engage in private research and practice.

Robert S. Oliver, Yuba City, California architect, has been named assistant professor of architecture at the University of Arizona, Tucson.

Albert M. Dreyfuss, Sacramento, has been named chairman of the California Architects-Engineers Conference Committee, a unifying body of design professions of the state. Albin W. Johnson, Los Angeles structural engineer, is vice chairman, and Melton Ferris, executive director of the CCAIA, is secretary.

F. Edward Jones of Cushing, Terrell and Associated Architects, Billings, has been appointed vice chairman of the Mayor's advisory committee on urban renewal.

elections

Jan Wilking, Casper, has been elected president of the Wyoming State Board of Architects.

Jack R. Lewis, AIA, FCSI, San Diego, assumed the presidency of the Construction Specifications Institute on June 1, following their annual meeting in Detroit. Architect Henry B. Baume of Denver is one of four vice-presidents elected to the Institute.

new firms

Kent Attridge announces the formation of the architectural firm Kent Attridge and Associates at 7421 Beverly Blvd., Los Angeles. Formerly associate architect in the firm of the late Claud Beelman, Mr. Attridge said the new association retains the Beelman staff.

Formation of a new firm, John B. Ferguson and Associates, Architects and Engineers, at 14606 Victory Blvd., Van Nuys, has been announced by Mr. Ferguson, formerly partner of the firm of Ferguson, Hutchison and Associates at the same address. Associated in the new organization are James E. Dillbeck and Ben L. Hamilton, in charge of engineering and project development.

George C. Higgins announces the opening of an office at 2321 P Street, Room 202, Sacramento, for the practice of architecture.

Lawrence E. Matson announces the opening of an office for the practice of architecture at 578 Third Street, Idaho Falls.

Robert H. Peterson, Los Angeles, announces the association of Harold L. Meek and the change in firm name to Robert H. Peterson & Associate, at 5229 N. Figueroa.

Vito W. Lasala and William C. Squire, associate, have opened offices at 22543 Ventura Blvd., Woodland Hills.

John Bartlett & Associates have formed a new firm at 158 E. Foothill Blvd., Arcadia.

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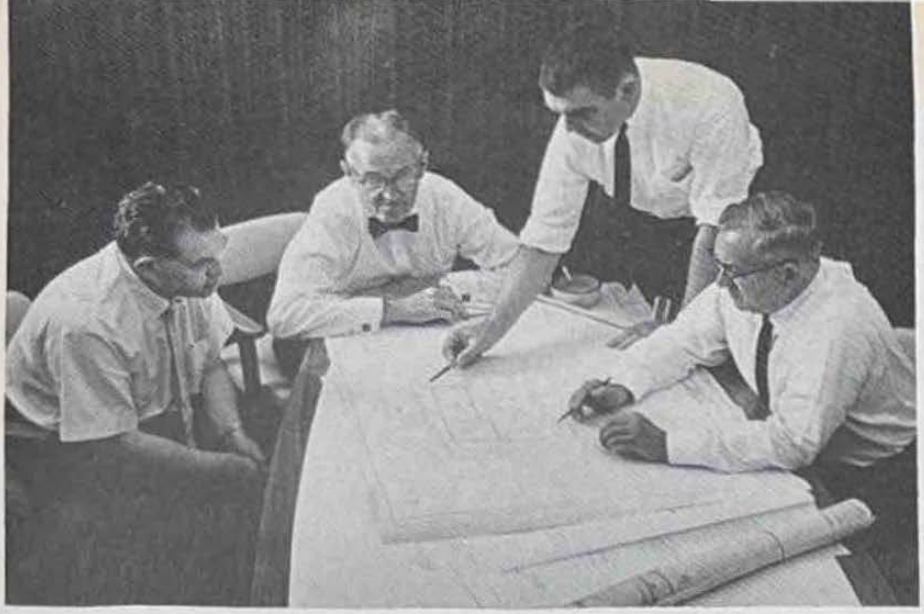


Four partners in the large conference rooms: Gene Burke, Edgar Kober, Charles Kober, Harold J. Nicolais. Fifth partner, Millard J. Archuleta, was missing when the formal photo was taken.

WHERE

THERE WAS A STOCK HERO in romantic comedies of the 30's – a sophisticated young man played by Cary Grant or Melvyn Douglas – who because of the plot had to have a career which was socially top drawer but still left him plenty of time to chase the girl, usually Margaret Sullavan or Jean Arthur. Nine times out of ten the playwright made his hero an architect because it fit these requirements so perfectly. This device also permitted the hero to be broad-minded, mildly intellectual and to wear tweed coats with leather elbows and smoke a pipe, all romantically appealing signs of non-conformity in those days when non-conformity was just beginning as a folk art.

The last of these formula comedies was a late bloomer of the 50's called "The Moon Is Blue." By then the cult of realism had diluted the formula so that the hero was actually seen leaving his architectural office. Furthermore, he established the fact of his labor in that office by entering a drug store to buy pumice – to remove ink stains from his hands, he said.

And there dramatic fiction left the architect, and left the segment of the theater audience that had no other source of information with an image of architects as attractive types who prosper without putting in long hours, and occasionally do some unstated work with indelible ink which results in buildings.

In order to replace this inadequate picture of what architects do with a more realistic one, we offer in evidence documentary photographs of how the work gets done in the architectural and engineering office of Burke, Kober & Nicolais.

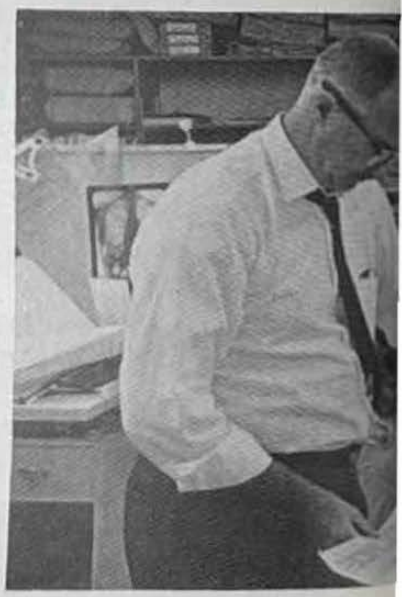
The opportunity was offered us by the editors of Architecture/West who figured that, since we have grown to the size where we handle a work load resulting in more than seven million dollars in construction annually, the interior of our office should be worthy of a feature story on office design. Regrettably, it is not. It is nothing more than a convenient address on West Third Street in Los Angeles, and 6,000 square feet of space that has been laid out with all thought concentrated on efficiency and flexibility, with none left over for artistic effects.

We like the plan; four medium sized drafting rooms that separate the specialties of architecture and engineering, store planning, fixture detailing, and interior design. Two large conference rooms take care of the big groups, and five partners' offices double as small conference rooms. (This is where the flexibility comes in, and only works because all five partners are seldom in the office at once.)

We would *like* to have (1) a perfect filing system for an accumulation of drawings dating back to 1932, (2) an orderly and efficient sample room, and (3) a formula for extracting information from product salesmen without having them waste untold hours of drafting room time each week. Suggestions will be gratefully received.

We would also like to have an office of distinguished design; a pure expression of our good taste and high standards where office design is concerned. And when we do, we will send Architecture/West the first set of photographs. – *Marcia Kober.*

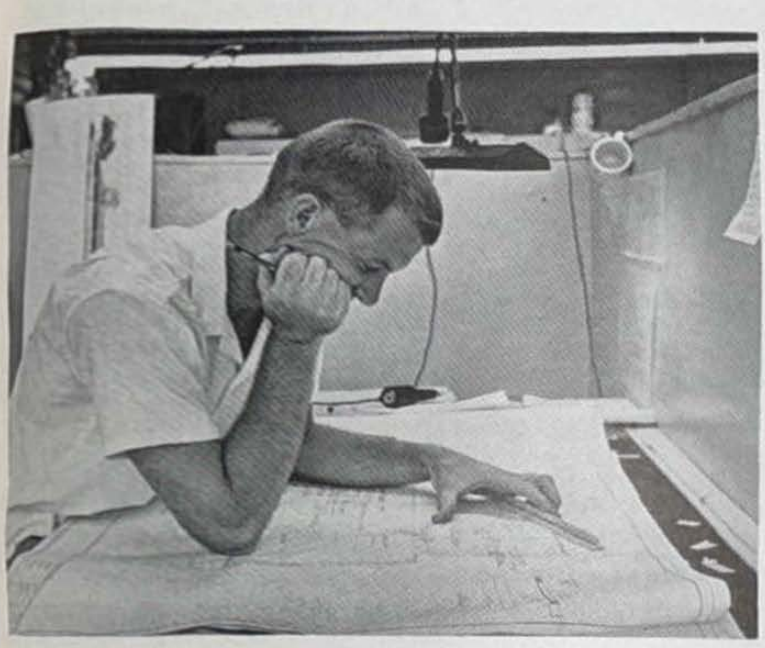
By the time they found Archuleta, others had gone to lunch.



RCHITECTS WEAR NO HATS

. . . Architects, Los Angeles, California

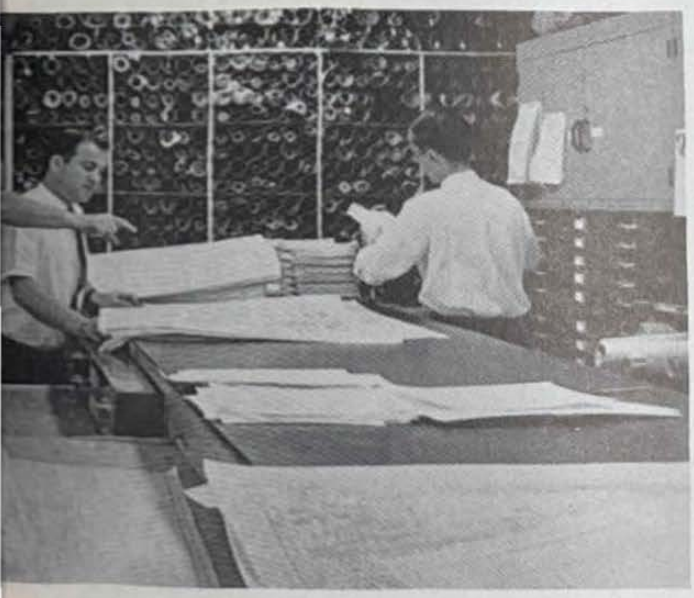
Street entrance is straightforward and clearly marked. But no one uses it because a back door by the blueprint machine is closer to the parking lot.



Individual drafting booths are designed for maximum concentration in minimum of space. Partitions are very movable.

No plan can allot as much space as designers require. In a corollary to Parkinson's Law, any space can be filled in a given time with an even layer of sketches, samples and scrap, which becomes a foundation for subsequent layers.

day 4:30 PM—the mail must go out, including one drawing t wasn't where it was supposed to be in the orderly fting room.



The Quest for Quality

THE 95TH ANNUAL GATHERING of the architectural clan developed "The Quest for Quality" into one of the best programs of the American Insitute of Architects in recent years. Three "mass therapeutic sessions" probed these facts of quality:

What is Quality?
What (and Who) Influences Quality?
Attainment of Quality

Sir Basil Spence, FRIBA, designer of the rebuilt Coventry Cathedral, opened with the challenge that the "architect who understands quality must be very near the renaissance ideal of the complete man: artist, philosopher and thinker." A group of diverse personalities occupied the rostrum to make up that complete man.

Under the moderating influence of Dean Burnham Kelly, Cornell College of Architecture, were these other artists, philosophers and thinkers: *S. Robert Anshen*, FAIA, of Anshen & Allen, San Francisco; *Paul Rudolph*, AIA, Chairman, Yale Department of Architecture; *Dr. Edward T. Hall*, Anthropologist; *Nikolaus Pevsner*, Architectural Historian-Critic, London's ARCHITECTURAL REVIEW; *Karel Yasko*, AIA, Assistant Commissioner of Design & Construction, General Services Administration; *Ada Louise Huxtable*, Architectural Critic, PROGRESSIVE ARCHITECTURE, NEW YORK TIMES; *George McCue*, Art Critic, ST. LOUIS POST-DISPATCH; *John M. Johansen*, AIA, New Canaan, Connecticut; *Wallace K. Harrison*, FAIA, of Harrison & Abramovitz, New York City.

Emerging as standouts in this discussion were the critic-historians. It is gratifying that such discerning critics are appearing for appraisal of our contemporary scene. George McCue participated in the AIA's seminar on journalism at Columbia last fall. This imaginative undertaking was indeed worthwhile when McCue can sense that "the emphasis on form-giving, image-building and status-conferring, as it may be witnessed in most big cities, seems at times to take on an unseemly clamor. The main alternative appears to be the extreme opposite—a conformity of sheer-sided rent-payers that evokes recollections of that tightly-packed cemetery in Queens where the stone slabs marching across the hillside solemnly affirm the eternity of urban density".

Mrs. Huxtable's address is reprinted elsewhere in this issue. Her frequent articles in the New York Times often pierce the conscience of the architect. But for all these brilliant appearances, it is obvious that the architect must pursue the quest for quality in his own lonely fashion. " . . . In the exhilarating, awesome moment when he (the architect) takes pencil in hand, and holds it poised above a sheet of paper, he has suspended there all that has gone before and all that will ever be. The 'agony and ecstasy' of the creative act cannot be delegated" (Paul Rudolph).

A notable improvement in the convention was the scheduling of business sessions before the professional program. The various by-law amendments were all passed without serious question. Delegates approved the mortgaging of the real property of the Institute to pave the way for construction of a new headquarters building. Essence of the design problem for the competition for this new building will be to provide quarters compatible with the Octagon House, a national historic monument. It is assumed the new design will include an appropriate garden and architectural links with its historic neighbor. No details have been announced yet for the competition. WHO will be the jury?

There were those who saw the enlarged headquarters as but a demonstration of Parkinson's Law. More seriously felt, however, was the concern that the Institute should acquire additional land, albeit expensive, to better prepare for long-range growth. Institute officers assured delegates that the site is adequate and that if the Institute should grow radically, regional offices would be required. This did not satisfy the fears of those doubters, emanating from Seattle and the Bay area on the West Coast, who have seen previous Institute dicta superseded in less than 10 years. It should be noted that even if this smoldering controversy had reached the convention floor, a majority would probably have voted to proceed.

Elected for next year were: President, *J. Roy Carroll*, FAIA, Philadelphia; First Vice President, *Arthur Gould Odell, Jr.*, FAIA, Charlotte, North Carolina; Second Vice President, *Wayne S. Hertzka*, FAIA, San Francisco; Treasurer, *Robert F. Hastings*, FAIA, Detroit. *Clinton Gamble* retains the office of Secretary, elected in alternate years with the office of Treasurer.

Paul Thiry, FAIA, Seattle, was re-elected Chancellor of the AIA's College of Fellows, a second term in office.

The Quest for Quality could not have been pursued in a less likely place than Miami Beach—a never-never land where the use of cosmetics, architectural and otherwise—must be second only to tourism. Not unexpectedly, the design of the convention hotel was entered into the discussion. The Americana is considered the high-water mark for the style of flamboyant resort architecture that Miami Beach is exporting to Las Vegas, the Caribbean Islands, and even to New York City where a namesake has blossomed forth. Its creator, Morris Lapidus, defended his work as an emotional response to people who come to Miami Beach for fun, comfort, satisfaction, warmth. (The Miami Herald headlined this impromptu exchange "Don't You Call My Hotel Names".) Miami Beach, with its string of resort hotels, does maintain its frenetic character; the mother city of Miami could pass for downtown Omaha or Wichita, give or take a few palms. As with all cities these days, Miami has THE PLAN for its ailing downtown.

The South Florida Chapter, AIA, was unstinting in its hospitality, even to hosting the AIA officers, directors and staff to a boat trip that came to an unplanned, dramatic halt aground on a sandbar. An authentic Coast Guard rescue completed that evening.

See you in St. Louis in 1964!

—A.O.E.

A WESTERN BREAKFAST

Black Star

Black Star

Feeling smug, complacent, dangerously self-satisfied? . . . read Ada Louise Huxtable

SINCE this conference is devoted to the quest for quality in architecture—what it is and how we get it—I assume that we don't have it. If we did, we wouldn't be discussing it. We've spent two days worrying about it in a kind of mass therapeutic session surrounded by chastening evidence of sin, and some of us worry about it individually, here and at home, a good deal more.

We have good buildings, of course; we even have great buildings. Quality exists, or we would have no yardstick to measure by and find it lacking. Our superior buildings remind us and the world of architecture's traditional, honorable time-proven role as an art, as a singular statement of excellence, as an unparalled instrument of prestige, as one of the most satisfying of human experiences, as the physical summation of a society's achievements and ideals. Architecture has even been the guarantee of some men's immortality—the ultimate status symbol. Without the great buildings, the architect is a pretty small man.

Interestingly enough, he has been getting smaller as his buildings grow bigger. There are a few giants; we all know their names. But the individual architect who proudly produced an individual building and took his bows from a rather elevated and respected position in society went out with the Victorian Age. He's wearing fancy waistcoats again after a generation of button-down shirts and black knit ties, but that's about the only similarity. We all know that the architect's name is missing from 90% of the news stories about his buildings. We know that even his most ambitious work is generally classified as real estate—a marketable commodity and nothing more—by most publications. And we know that he resents this downgrading of his traditional role and reputation, and he sometimes has a right to.

Not always. But sometimes. Sometimes he's merely gotten what he asked for. The architect himself is not without guilt in the loss of quality in architecture, he is not without responsibility for the scuttling of architecture as an art. But he has a large loophole to weep through, because he can legitimately place a lot of the blame on the nature of his times.

There are so many bad buildings—pedestrian in concept, routine in design, tasteless in detail, ordinary in material, inferior in execution, disastrous in the aggregate—that we are facing the fact of an architecture without quality, and we can honestly be afraid of what this is doing to our environment and our reputations.

A pointed question for all of us here is how has this situation come about? Answering may give some clues to the real nature of the dilemma, and to its solution—if a solution exists.

The arts of any age mirror that age; the present state of architecture reflects in so small measure the nature of our century. It has been a century of revolutions; of greater and faster and more numerous changes in a brief span than the world has ever seen before. Everything that built up the architect's traditional reputation and position went overboard; all of the skills, knowledge, materials and processes that were part of his time-tested armor and equipment were replaced. With them went the philosophical attitudes and the accepted esthetic principles that were the solid foundation of his art. The word art went, too—a loss that has taken away one of the architect's greatest weapons for excellence, granted that it was often misused. It is entertaining and pathetic to watch today's architect grope for a pragmatic way to express the esthetic necessities of his design to a client, or even to a fellow professional.

All that remained were the pressing, puzzling needs of an expanding industrial society, and the promises—undelivered—of a new technology to solve them. (And how the early modernists faked those technological effects—in enthusiastic, sentimental anticipation of answers that never came. One thing they were unable to visualize was a pastel plastic world.)

Economics and technology—the twentieth century challenges that were to be the saviours of the new architecture—have sabotaged it into standardized mediocrity. They were to remake the work, and they did, but not in a way that anyone expected. Today we no longer speak of the promise of economics, but of its tyranny. You can't beat costs: the cost of good materials, the cost of a good design, the cost of labor, the cost of supervision, the cost of upkeep. Cost has eliminated the craftsman and pride in craft. It has enforced conformity and dictated minimum standards. It has put the architect behind the eight-ball. And it has not yet been compensated for by technology, which, theoretically, offers new products and processes to overcome these costs, but has succeeded in producing very little that is anything more than efficiently second-rate. There are exceptions, in structural technology particularly, and there is always hope. But the new world is a pretty shoddy thing.

A generation has grown up that has never known quality or the tradition of quality; whose standards have been formed by the synthetic, the substitute, and the cut-corner. It is the same generation that has never tasted fresh orange juice or known real bread and that celebrates its birthdays with ready-mix cake. For every one of those young men whose imagination is great enough to go beyond the offensively pedestrian solutions to be fired by genuinely new possibilities, there are hundreds who accept and propagate the faith of the ordinary, the gross and the vulgar. It's all over the landscape: the aqua green metal panels that turn uncountable facades into common kitchen walls, the bronzed tin that would make the Seagram Building blush, the acrobatic marquees, the pseudo-glamorous grilles; this is trick or treat architecture—the shell game. Every building is a blow to quality.

In this hideous evolution, the art of architecture has died. It lives only in the hands of its few most talented, dedi-

HUXTABLE
continued

cated, persuasive and sometimes belligerent practitioners.

I know the practical problems are enormous, with the complexity of modern architecture; I realize how little time, money or energy are left after the inevitable client-squeeze and the serious pressure of competing services. But the near-total abdication of esthetic responsibility—or, one suspects, of esthetic knowledge or interest—is inexcusable.

And so we have a new set of standards.

First—architecture must be big and up-to-date. It impresses by size, modernity and cost. The price tag is the real cachet. Add to this an unequivocal blatant newness; let everything be inescapably the latest thing. Even better, make it a caricature of the latest thing. If screen walls are fashionable, use larger and fancier ones, where they will surely catch the eye. It helps if they undulate. No one will notice what's behind them. Use plenty of color; if it grates on a few observers, it will be socko with the majority that counts. A really odd shape is desirable—it can't possibly be called old-hat. Avoid repose. Seek dynamic effects. If it blends with anything else on the skyline, it's wrong. If it deranges the eye and smashes the sensibilities, it's great.

Third, stress integration of the arts. This is quality and culture in one package.

Fourth, if all else fails in the quest for quality, talk about it. There was an extremely thoughtful, well-run, AIA-sponsored symposium on esthetic responsibility in New York last spring, which came obliquely to an interesting conclusion. Beauty in our dollars-and-cents culture, like whitewall tires, is an optional extra. Ugliness is here to stay.

I do not mean to imply that I am against newness, or legitimate change or advance, or scientific exploration, or the use of the arts. I am against their abuse, their exploitation, or their substitution for architectural quality, which always has been and always will be the same: suitability of concept, thoughtfulness and conscientiousness of design, finesse of detailing, and superiority of materials and execution.

Mediocrity, not quality, is the present norm. And the final, disturbing question—can it be otherwise?

For a few strong architects of superior talent, it need not be otherwise. They will produce good buildings, whatever the prevailing standards, over the client's and society's dead bodies, if necessary. They are strong enough to win their battle for excellence against economic restrictions and against the tides of public taste. They can push their budgets outrageously. They can wheedle their clients persuasively. And clients come to them who are already sold on the uncompromising nature of their work.

But not every architect is a genius, or that persuasive, or that lucky. There is also the man of talent who offers a more modest combination—taste and competence—two sterling virtues that our society doesn't want. In today's atmosphere his work suffers unending compromise and defeat. A more sympathetic environment might encourage, rather than discourage his level of production. It might—if the architect had not already sacrificed his status, or if he were not too busy pandering to the debased values that have caused so many of his difficulties. It's a double dilemma: taste and competence, which should be the broad base of all architecture, are victims of the climate of the times, and the architect, in his own words, "has moved with the times."

The attainment of quality comes do to two factors—the attitude of socie or its tolerance of and desire for cellence, and the ability and desire the architect to produce it.

On the first, conditioning factor, am optimistic. I believe that the "tim can be moved." Or more accurate that the times are moving. And th architecture can and must move wi them. My opinion is based simply observation of the relationship betwe supply and demand, which works well esthetically as it does in its ma pragmatic manifestations. There is change taking place in the cultur climate of America today that can ha a profound effect on the public opini and professional practice of archite ture. This change is a noticeable, gro ing, public consciousness of archite ture. And it is the climate of the tim that creates the ambience, the permi sive atmosphere for the realization architecture's highest objectives.

Those organs of public opinion an information, the newspapers and ma azines, which wanted no architectur writing a decade ago, are competing f it now. Planning and esthetics are give serious editorial attention. Televisio which wouldn't touch architecture, interested and experimenting. Publ response is surprising. I speak from pe sonal experience, because I have watch ed all this develop. I do not delude my self that this trend is well begun. Pic up *Time, Life, Look, Business Week*- all of the standard publications—the is competent and growing architectura coverage.

This consciousness has come in spi of the architect, who has earned it onl in small degree through some top lev and some histrionic performances. It lagniappe, a bonus riding on the coa tails of an overwhelming public intere in the arts; it is part of the America cultural boom. I do not claim that th is all good, or that the interest is un formly discriminating, or will ever b genuinely knowledgeable; it is not, and it is unlikely that this will ever change What it produces, however, and th is of primary importance, is an awar public—aware that other desirable standards exist, aware of architectur as an art. This kind of public will giv the architect his due, and may even ask him to do his best. Which throws the serious responsibility right back t the profession.

But it is also a gullible public—it ac cepts charlatans and pitchmen as easil as geniuses. It offers one guarantee only: the existence of a receptive audi ence. The rest, gentlemen, is up to you.

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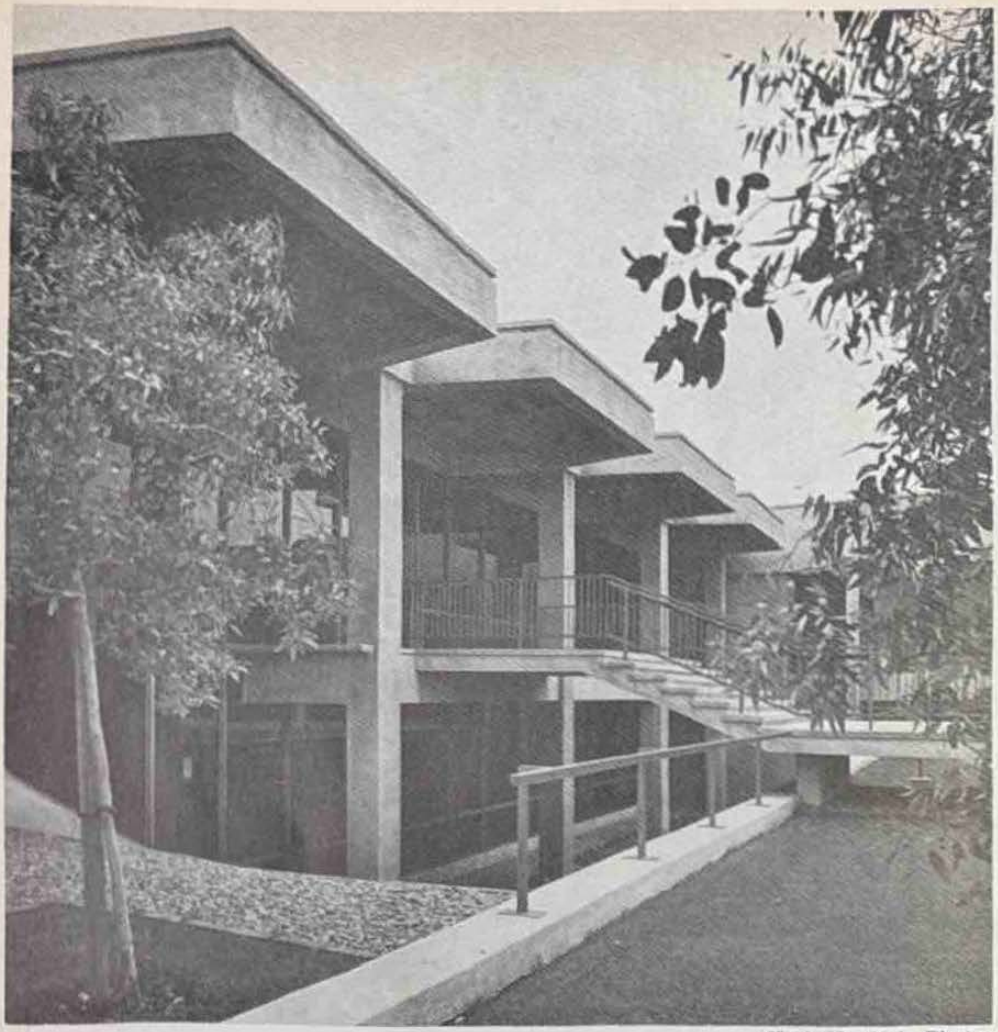
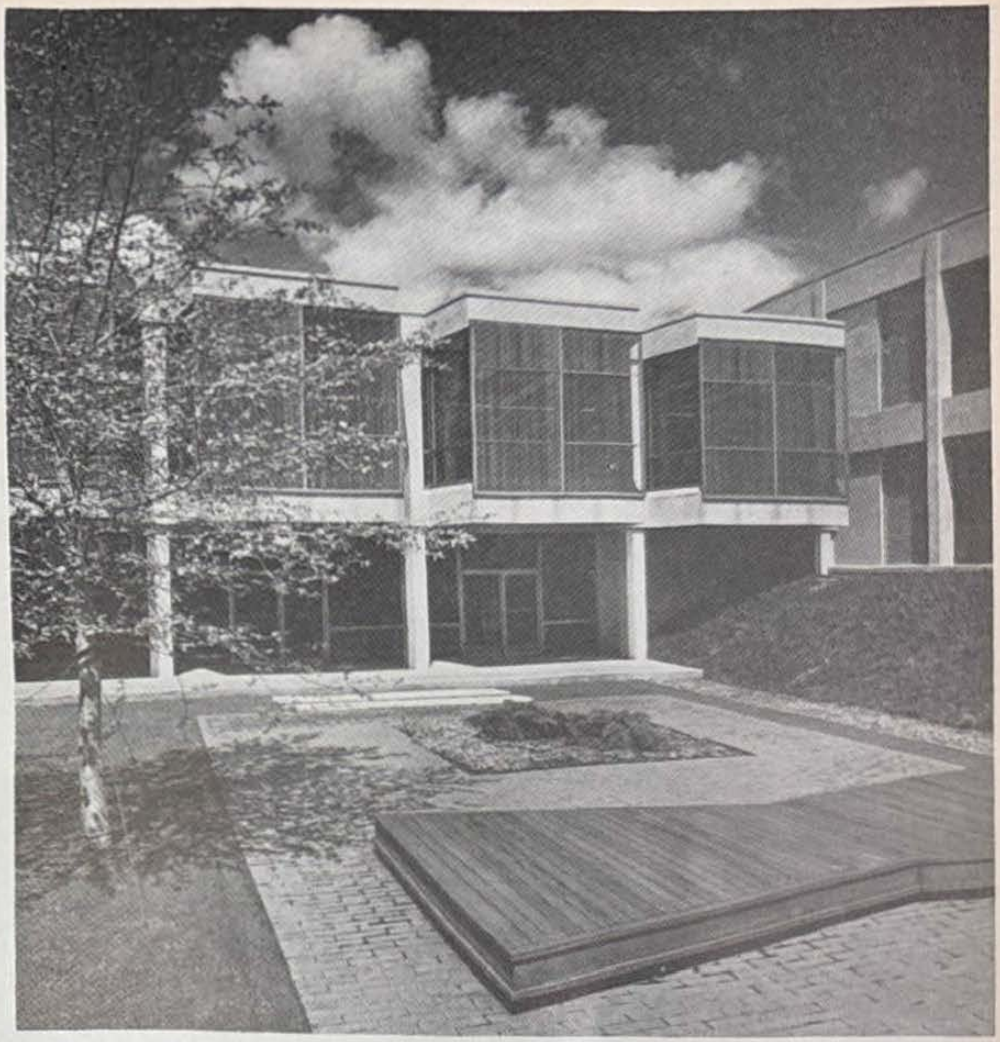


Karl H. Riek Photos

COMPETENCE AND INTEGR



STAUFFER CHEMICAL RESEARCH CENTER,
Richmond, California

Gerald M. McCue & Associates, architects

Rothschild, Raffin & Weirick, general contractors

John A. Blume & Associates, structural engineers

Sasaki, Walker & Associates, landscape architects

EVERY LINE

HEWING TO THE AIA CONVENTION THEME "Quest for Quality," many speakers deplored the lack of *quality* in much of our building. But this laboratory center for Stauffer Chemical Co. is one of those outstanding buildings possessing *quality*.

A building of taste and competence showing considerable finesse in its detailing, it further becomes a very pleasant working environment with its delightful outdoor spaces, its use of clear sharp color accents and lively furnishings. Few laboratory complexes have this very human character.

This main laboratory is the nucleus for a compact chemicals research area that will eventually have a number of related wings.

A laboratory module is the key to the design solution. This module reflects Stauffer policy that research chemists shall have both their office and laboratory functions in the same space. Thus the standard bay depth is sized for an office area adjacent to the corridor (reducing traffic into the lab proper). Deep fume hoods necessitated an 11-ft. module; a double module forms the standard four-man laboratory.

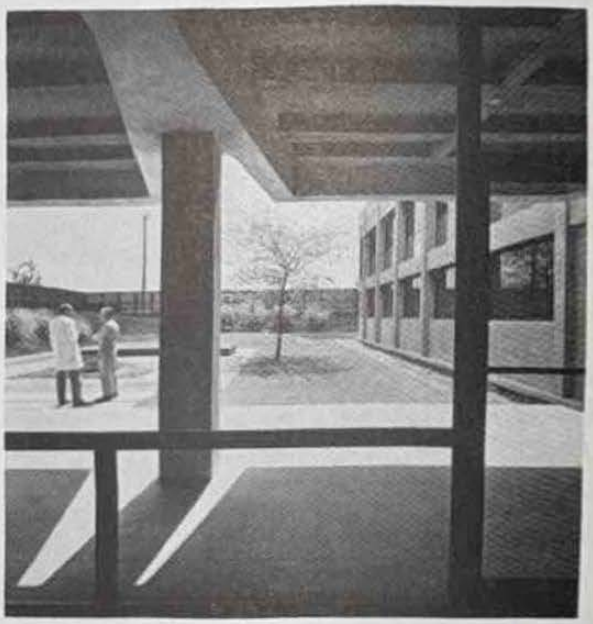
Intricate coordination was necessary to resolve the various mechanical requirements. The lab wing is framed at the same spacing as the lab bench module, but is off-set one-half module to prevent structural interference with mechanical access through both floor and roof at each bench. This offset is obvious on the building exterior where the ends of the laboratory wings start with one-half a typical bay.

The reinforced concrete structural frame is kept to the building exterior in order to provide uninterrupted interior space with mechanical access. Visually this exterior frame gives a deep modeling of the columns

on the rhythmic facade. Floor and roof slabs employ a concrete joist system. This is left exposed—for an evident decorative effect—at the main entrance, lobby, library and meeting rooms where double ceilings are not required.

True scale of the interior space is manifested by the infill panels of the concrete frame which indicate the actual floor and ceiling heights of the interior space. The gray plate glass, the porcelain-enameled insulated steel panels, and the (dark) anodized window frames are all of the same color value and kept in the same plane to express the non-structural quality of all the infill materials. This is an evident example of the care and sensitivity with which the building was obviously designed and detailed.

The building was completed in June, 1961, at a cost of $1,600,000 including equipment, furnishings, landscaping, and fees. ■



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(Roof slope over 3 in 12)

(weighing less than 4 lbs. per sq. ft. in place)
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Douglas Fir Size	West Coast Hemlock Spacing	Span
2 x 6	16" o.c.	9' 8"
2 x 8	16" o.c.	14' 4"
2 x 10	16" o.c.	19' 8"

Western Red Cedar Size	Sitka Spruce Spacing	White Fir Span
2 x 6	16" o.c.	8' 0"
2 x 8	16" o.c.	11' 10"
2 x 10	16" o.c.	16' 8"

FLAT ROOF JOISTS

supporting finished ceiling

(Roof slope 3 in 12 or less)

maximum spans for "UTILITY" grade

Douglas Fir Size	West Coast Hemlock Spacing	Span
2 x 6	16" o.c.	7' 8"
2 x 8	16" o.c.	11' 6"
2 x 10	16" o.c.	15' 8"
2 x 12	16" o.c.	18' 2"

Western Red Cedar Size	Sitka Spruce Spacing	White Fir Span
2 x 6	16" o.c.	6' 4"
2 x 8	16" o.c.	9' 4"
2 x 10	16" o.c.	13' 2"
2 x 12	16" o.c.	15' 2"

CEILING JOISTS

(no attic storage)

maximum spans for "UTILITY" grade

Douglas Fir Size	West Coast Hemlock Spacing	Span
2 x 6	16" o.c.	11' 8"
2 x 8	16" o.c.	17' 6"

Western Red Cedar Size	Sitka Spruce Spacing	White Fir Span
2 x 6	16" o.c.	9' 10"
2 x 8	16" o.c.	14' 4"

FLOOR JOISTS

maximum spans for "UTILITY" grade

Douglas Fir Size	Spacing	West Coast Hemlock Span 30 lb. live load*	40 lb. live load†
2 x 6	16" o.c.	7' 2"	6' 4"
2 x 8	16" o.c.	10' 8"	9' 6"
2 x 10	16" o.c.	14' 8"	13' 0"
2 x 12	16" o.c.	17' 0"	15' 4"

Western Red Cedar Size	Spacing	Sitka Spruce Span 30 lb. live load*	40 lb. live load†	White Fir
2 x 6	16" o.c.	6' 0"	5' 4"	
2 x 8	16" o.c.	8' 8"	7' 10"	
2 x 10	16" o.c.	12' 4"	11' 0"	
2 x 12	16" o.c.	14' 2"	12' 8"	

*Sleeping rooms only †other than sleeping rooms

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- Rafters (see span tables)
- Sheathing
- Sub-Floor
- Floor Joists (see span tables)
- Bridging
- Ceiling Joists (see span tables)

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construction, and in top floor
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LIGHT FRAMING

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Recommended for walls supporting ceiling and roof only, all non-bearing partitions, laminated walls and partitions, bridging, plates, short posts and fire stops. See span tables on page 3 for detailed species information.

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2" to 4" thick, 6" and wider

Recommended for joists and rafters in short spans. Where "Utility" grade is used to its proper spans, the resultant framing is stiffer and completely satisfactory. See span tables on page 3 for detailed species information.

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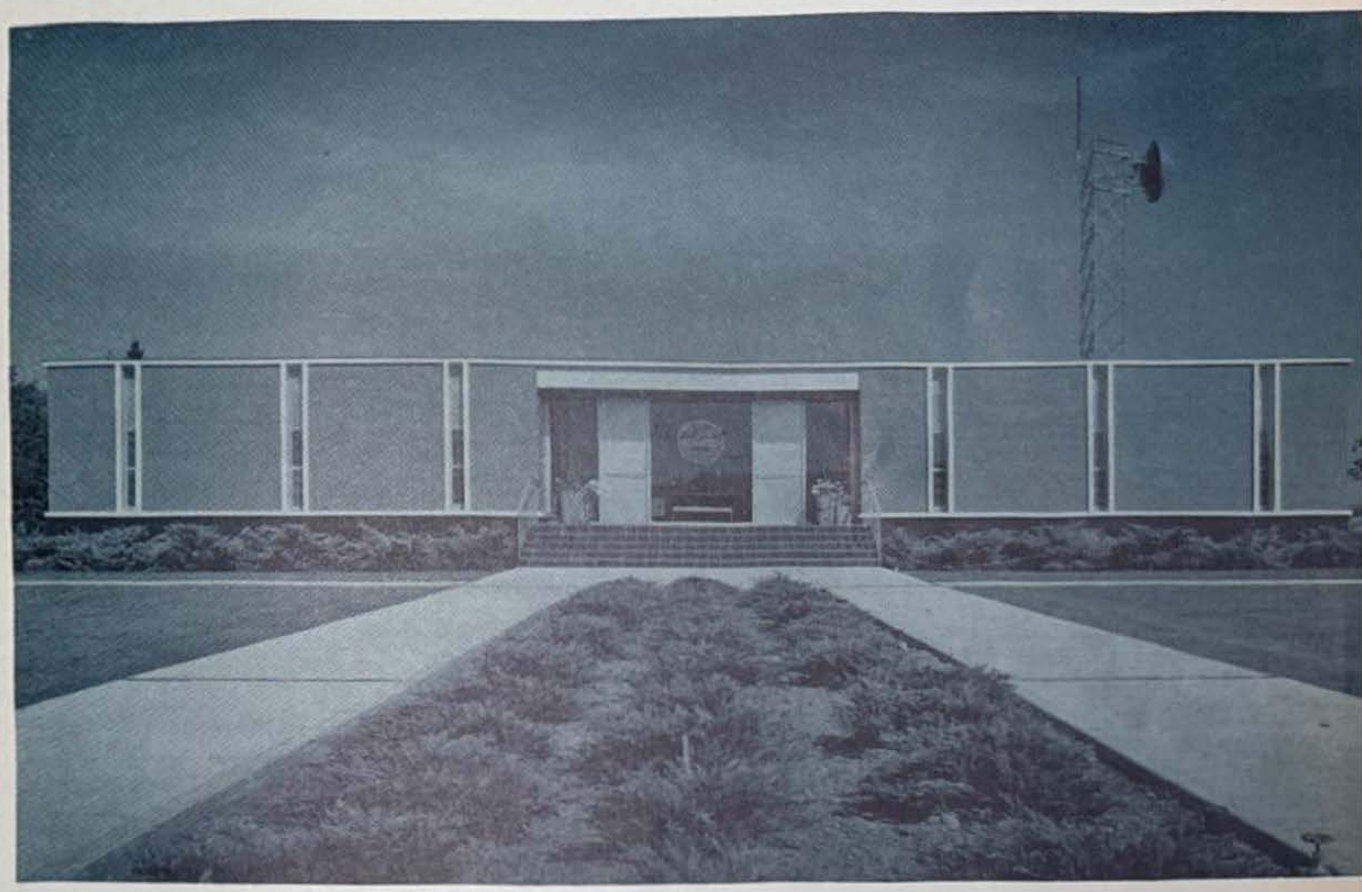


THE AURA OF INADEQUACY SO common to small horizontal office buildings seems to have been avoided in this control and office building. Horizontal it is, but with narrow vertical fenestration, and based on a raised plinth of earth, adding to apparent height and substance.

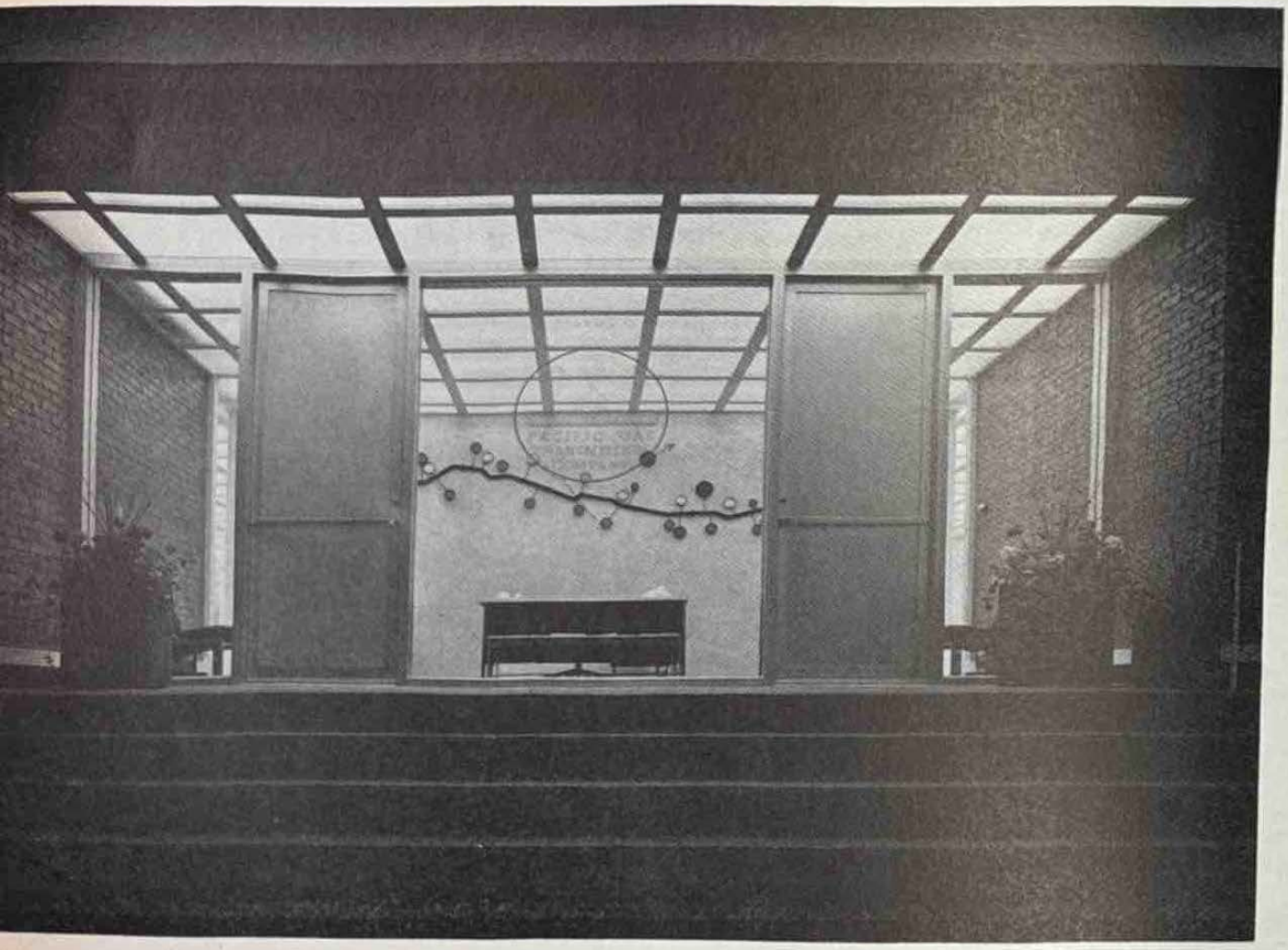
The minimum of exterior window space is purposeful—the neighboring environment is not overly attractive, so the client had the desire to look in upon a central courtyard.

Architect Kenneth Brooks had the pleasing and unique experience—after extensive programming—of visualizing the parti suddenly and in surprisingly complete detail almost as if it were handed him on a platter in

PACIFIC GAS TRANSMISSION OFFICE BUILDING
Spokane, Washington

Kenneth W. Brooks, architect

Lyerla & Peden, structural engineers



the midst of the dinner he was eating. The "square donut" shape, module, dimensions, vertical window and fenestration and general arrangement of space a in one package, ready for the first hard line drawing which became a part of the presentation which wa approved by the client.

Brooks says: "I am sure Parkinson's law had some thing to do with this, as the client put us on a fas schedule; however, I believe this beaux-arts method of designing—doing an esquisse at the outset and sticking with it is completely valid for certain design problems. But this is an extreme switch for us who

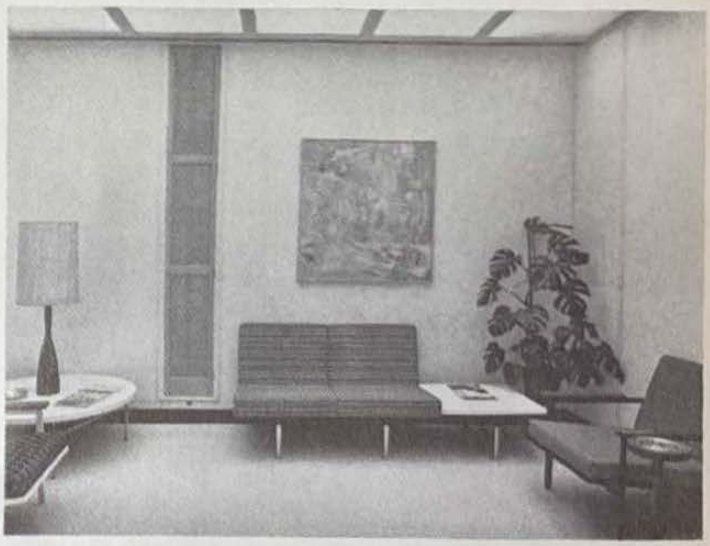
Charles R. Pearson Photos

are accustomed to burning up roll after roll of yellow tracing paper."

In any event, the client has expressed great pleasure with the square inner courtyard around which the offices are grouped, with floor to ceiling glass giving a greater feeling of openness than is normally attained by desk-high exterior windows.

Construction is concrete slab, masonry bearing walls, skeleton steel roof. Exterior walls are a turquoise glazed brick, interior walls white vinyl on gypsum board over block. Floors are black quarry tile and vinyl asbestos. Luminous ceilings with fluorescent lighting between open web joists; roof deck of Tectum is acoustical on the under side.

In color and detailing, as well as in concept, this building expresses quality and provides its occupants unusual pleasure—as noted in its AIA merit award. ■



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Dearborn-Massar Photos

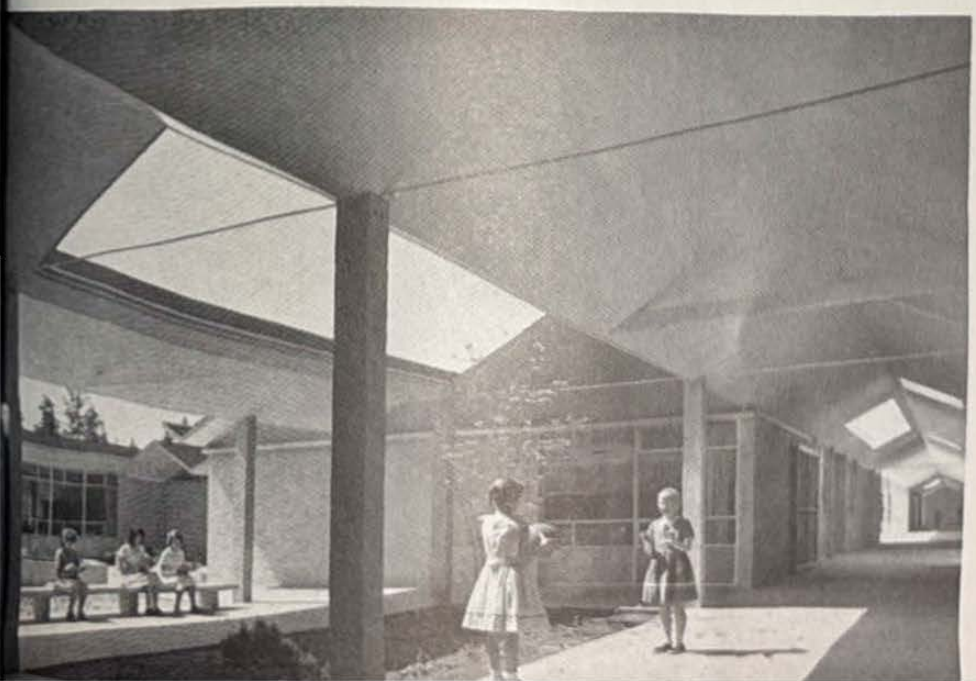
Elementary School Is Scaled to the Proportions of the Age Group it Serves

LOW EAVE LINES of a folded plate roof helped the architects achieve their desire to scale this elementary (kindergarten through sixth grade) school in proportion to the "small people" it serves.

The effect was improved further by grouping the rooms in clusters of four, with each group served from a central activity area which doubles as circulation area from the outside to the rooms and from the rooms to the toilets and storage areas.

Each cluster encloses a series of small, intimate landscaped courts, so that each class has its own court for growing and caring for plants. As an additional factor in scale, the folded plate roof has given excellent sound dispersion.

Access walkways are unusually well sheltered for outside walks. Each class room has its own door directly to the outside, making it possible for classes to circulate to the library or the multi-purpose room without passing through the activity room. The multipurpose room is purposely set to one side of the complex so

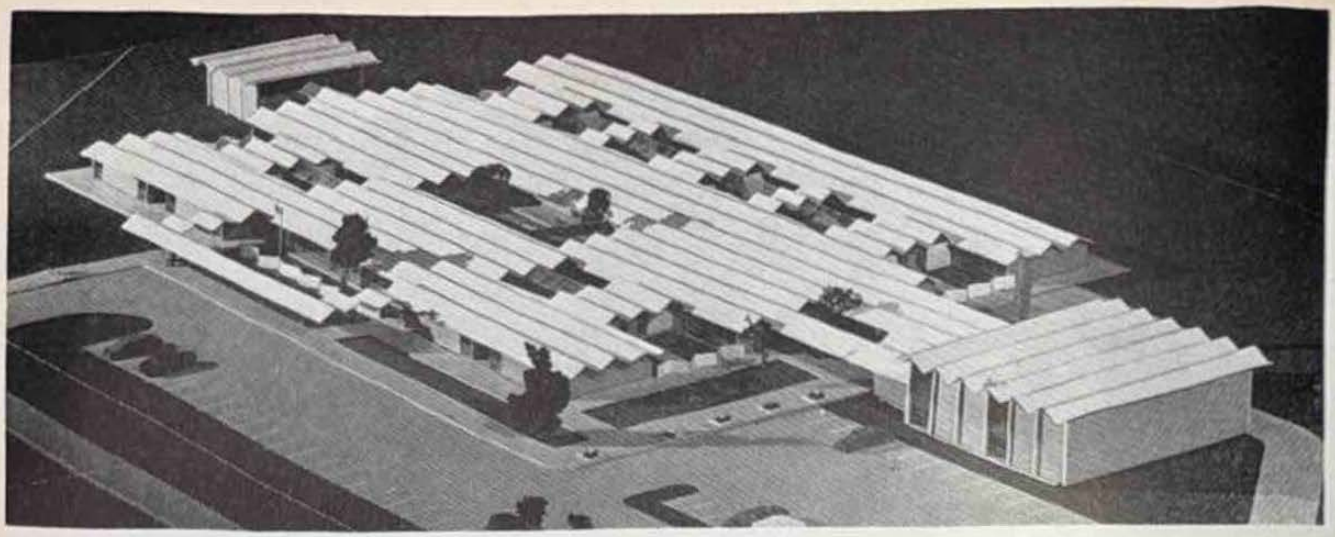


COVINGTON ELEMENTARY SCHOOL
Kent School District 415, Washington

Waldron & Dietz, architects

Northern State Construction Co.
General Contractor

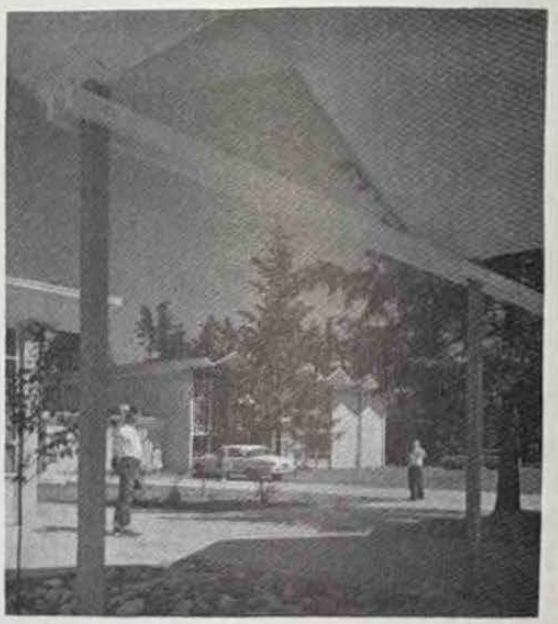
Olsen & Ratti, structural engineers



that it can serve the public independently of the basic school activities, and parking is so divided that a large blacktop area next to the multipurpose room is barricaded and used as a play space during the daytime. Gates lock off the central core area when the school is not in session, reducing the possibility of vandalism in the interior courts.

Built to conform with emergency school aid specifications, the school is a typical slab on grade construction, with concrete block masonry exterior walls. The roof structure is framed plywood folded plate panels built on the site and lifted into place by crane. Finish floors are homogeneous vinyl tile, partitions are plastered, windows are aluminum extrusions, roofing is asphalt shingles. Washroom floors and wainscot are of ceramic quarry tile.

This combination of relatively economical materials, treated with considerable sensitivity, produced an unusually fine school of 38,445 square feet at a cost of $553,623. ■

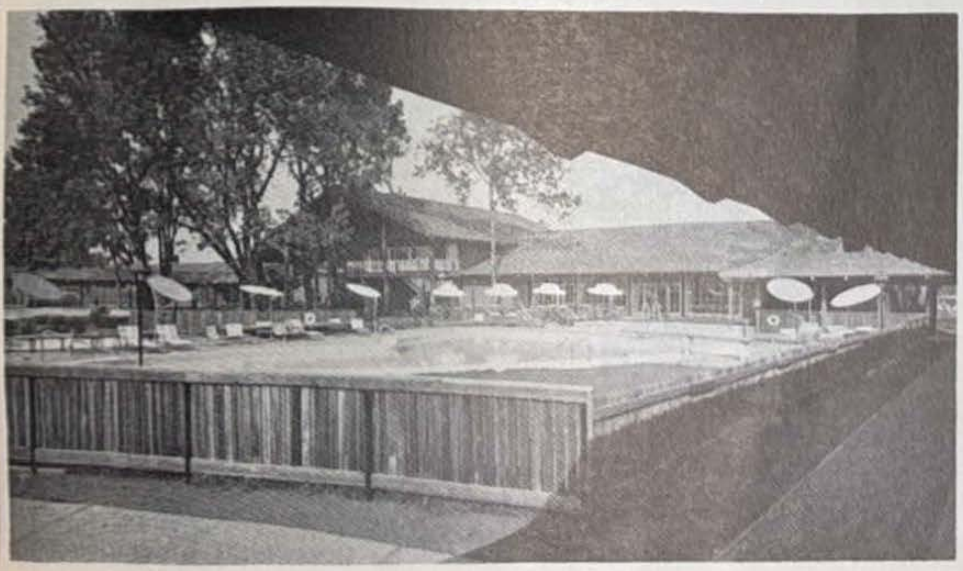


Showplace and Spa Blended in Rustic Simplicity

THE VILLAGE GREEN MOTEL
Cottage Grove, Oregon

Percy D. Bentley
Architect

W. H. Shields
General Contractor



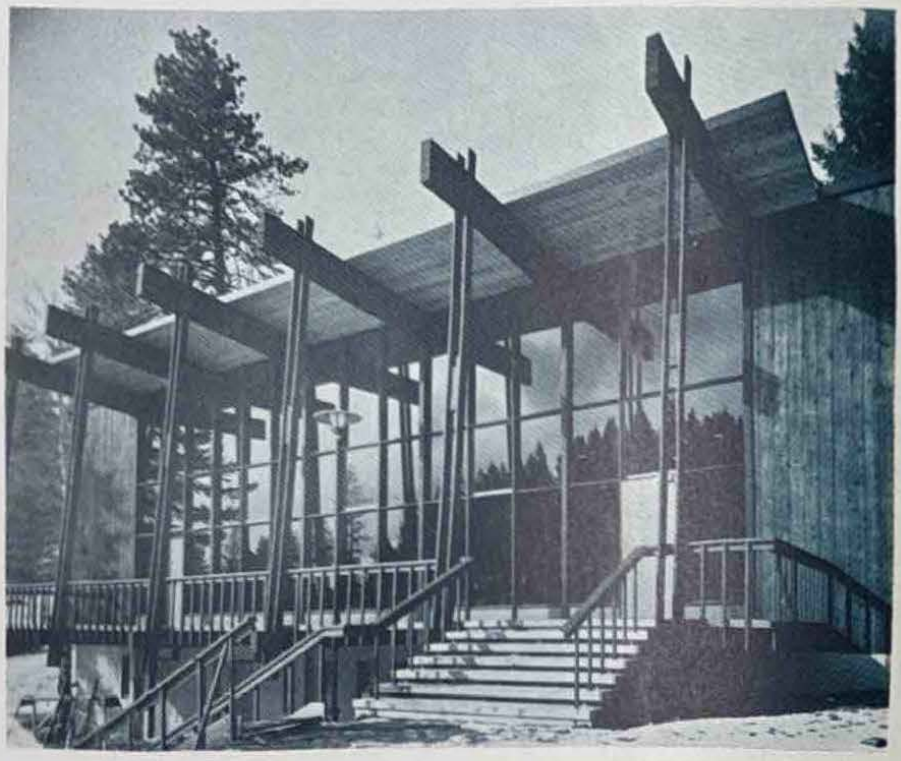
A LIVELY SHOWCASE for wood is this rustic but luxurious motel designed both for transient and convention trade. More than a million board feet of Western Hemlock and Douglas Fir went into the structures, with touches of Oak and Birch and Teak.

Ranch styling, rough sawn and dark-stained, with heavy handsplit cedar shakes on the roof, is combined with a Swiss chalet appearance of the main building. To this solid Western hospitable appearance was added the award winning interior enrichments of Decorator Arthur H. Morgan Jr., who worked to the structure to richly enhance the basic elements.

Walls are Hemlock lumber applied vertically and stained dark as nutmeg. Ceilings are pitched with roof, supported by 4x12 beams and Howe trusses in series—all members chipped with lip adzes and varnished to emphasize the texture. ■

IDAHO'S SECOND SUN VALLEY?

BOGUS BASIN SKI LODGE, Boise, Idaho
Dropping, Kelley & Finch, architects;
Cain and Hardy, general contractors



THIS SKI LODGE at Bogus Basin miles north of Boise is not rea another Sun Valley in size, but is o of the most advanced facilities a has an appearance of great warm

It is split level, with about 9,0 square feet of useful space; concrete-floored entrance and "sno removal" room is downstairs (alo with a sack lunch room, nursery a rest rooms). Upstairs is an up-to-th minute double-line cafeteria and lounge fronted with a glass wall.

Glued laminated beams support butterfly roof, and a wide deck turn is suspended from the exte sions of the beams beyond the ro line. Walls are of timber frame co ered with vertical tongue and groo cedar, Olympic stained.

Roof is 5-inch Potlatch Lok-D with Styrofoam insulation. Glass L.O.F. gray plate. Furnishings d signed by the architect are su plemented with Herman Mill chairs. Cost was $95,000.

Six-Ton Units Raised and Rotated Without Distorting Wood Frame

CLOSE INTERRELATION OF DESIGN with the construction method in mind helped hold down the cost of the central tower unit of the First Methodist Church in Sunnyvale, Calif.

The tower was built on the ground in four segments of wood frame structure, each segment weighing 12,000 pounds when completed. The engineer located his lifting points precisely so that the crane could raise the segments into a horizontal position, rotate them approximately 90 degrees from a horizontal plane to a vertical plane without distorting the frames.

When the first two were up, they braced each other, and in turn braced the subsequent two segments. With all tied together, the entire roof load comes down on four concrete piers, with the segments so designed that they take all lateral thrust directly to the piers.

The four piers also take the load of lower roofs built after the accompanying pictures were taken.

The central tower is 55 feet high, and has a prefabricated steel spire rising another 100 feet from the crest of the tower.

Architect for the project, completed early this year at a cost of $125,000, is Donald Powers Smith. Structural engineer, Isadore Thompson. General contractor, D. W. Knight Co.

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by
architects
for
architects

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Burned Clay Floor Tile Reverses Cost Trend

NEW KILGARD FLOOR TILE as shown installed in the Ladner Public Library, Ladner, B.C., is introduced in the United States by Clayburn-Harbison.

This is a burned clay floor tile 12x7/8 inches designed particularly for large floor areas of commercial and institutional buildings, suitable for entry

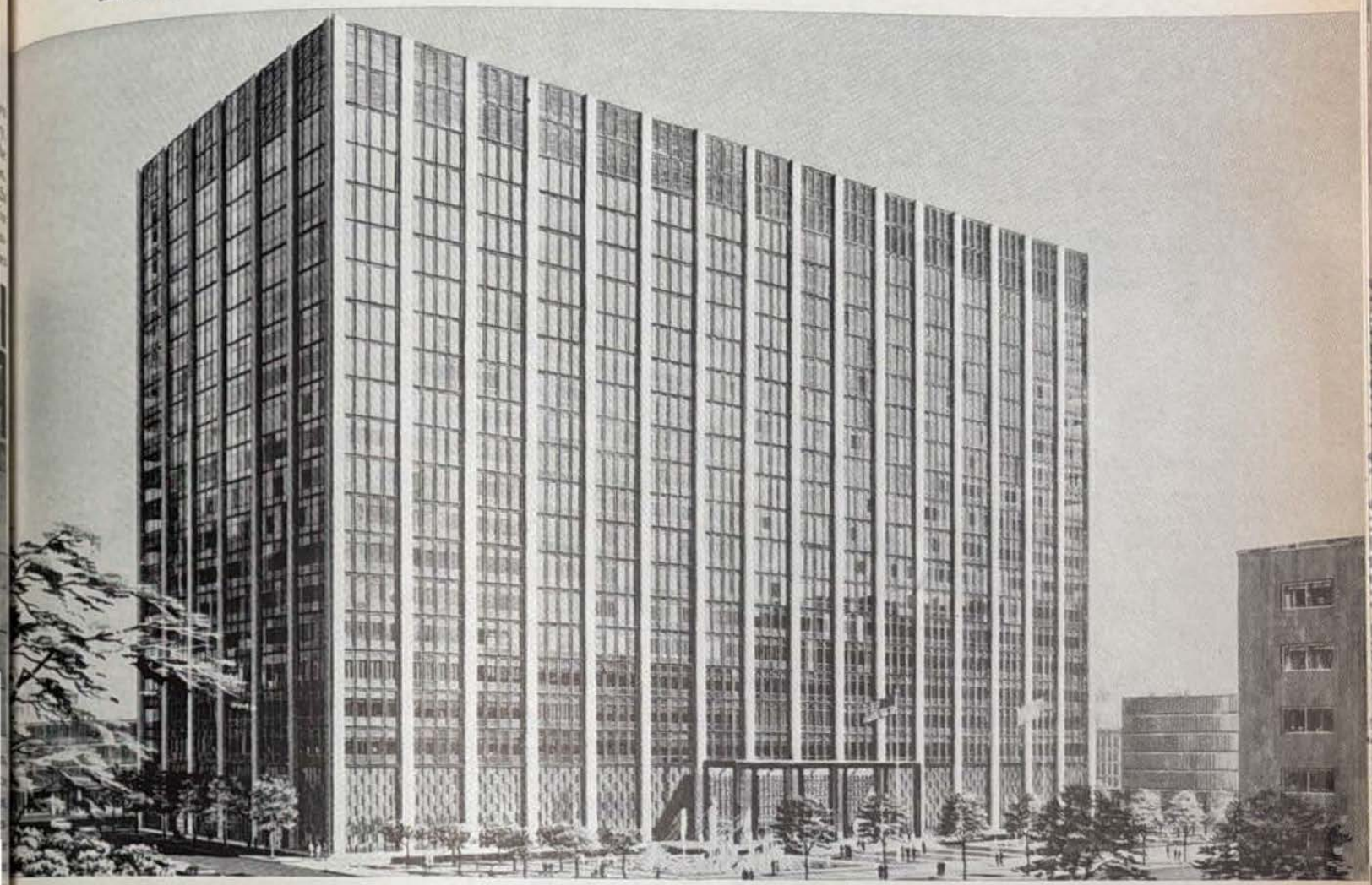
and hearths in residential construction and almost inexpensive enough to be considered for outdoor walks and patios.

It is burned hard enough for exterior use in any climate, and may be installed over wood subflooring, concrete or in a simple sand bed. In the library installation pictured, the installation is on concrete and is cement grouted.

Physically the tile units have a compressive strength of 9000 to 12,000 psi., and a modulus of rupture of an average of 13,000 psi.

Surface is smooth, but with a non-skid texture. Cost is under 50c per square foot.

U. S. Courthouse and Federal Office Building, San Francisco, California. Architects and Engineers: Blanchard & Maher; Albert F. Roller; Stone Marraccini & Patterson; John Carl Warnecke. Contractors: (Joint Venturers) Roscoe-Ajax Construction Company, Inc., and Knickerbocker Construction Corporation.



25

TWENTY-FIVE HAUGHTON AUTOMATIC ELEVATORS

will be installed in the new U. S. Courthouse and Federal Office Building now reshaping San Francisco's skyline. They will provide service keyed to the age of automation at every moment day and night for the life of the building. An incredible electronic computer system developed by Haughton Elevonics* will constantly analyze the amount and character of traffic and automatically control each car to meet traffic needs exactly. Haughton Automatic Elevators are available to meet every requirement of speed and load in handling passengers and freight. All are backed by years of design and manufacturing experience, imaginative research and complete maintenance capabilities. Contact your Haughton sales office (listed in the Yellow Pages) for full information. Or write: Haughton Elevator Company, Division of Toledo Scale Corporation, Toledo 9, Ohio. Passenger and Freight Elevators, Escalators, Dumbwaiters.

*Haughton's advanced program in systems research and engineering with specific emphasis on the creative application of electronic devices and instrumentation for betterment of systems design and performance. Reg. in U. S. Patent Office.

EMBLEM OF EXCELLENCE IN VERTICAL TRANSPORTATION

crystal tiles

Sparkling crystals on an all-white surface have created new patterns in ceiling tiles. Crystal White, a decorative tile, is laced with minute sparkling crystals that under various lighting conditions gives either a frosty appearance or emits a twinkle. Snowflake, the second pattern, is an acoustical tile perforated in a subtle snowflake design. Both patterns complement all color schemes and are furnished in regulation interlocking tiles, finished in a fire-retardant paint. —Barrett Building Products Div., Allied Chemical Corp. (A/W), 40 Rector St., New York 6, N.Y.

horizontal dispenser

Recommended particularly for commercial and institutional washrooms, the Model B-305 soap dispenser is designed horizontally to fit into limited spaces, requiring the same areas as that of two 4-in. tiles. The unit is constructed entirely of stainless steel, including mounting box, soap vessel and valve. The dispenser, which holds almost half gallon of liquid soap, swings out for refilling without detaching. An unbreakable lucite window signals refill time. Model B-307 features lather valve.—Bobrick Dispensers, Inc. (A/W), Architectural Service Dept., 1839 Blake Ave., Los Angeles 39, Calif.

seating from blue prints

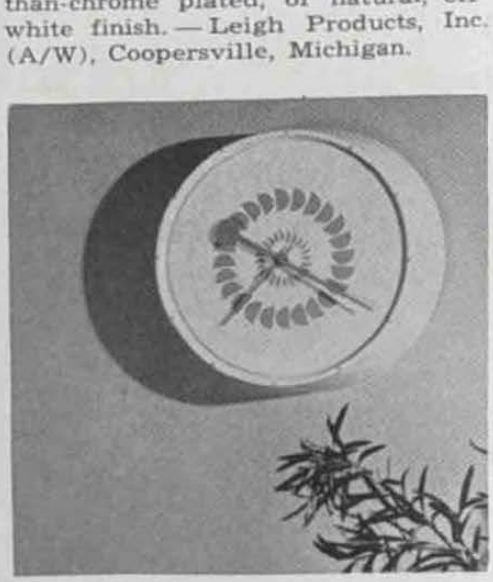
Designers of the original shell-and-pedestal Sculptura Forum chair, recognizing that most seating installations have individual problems, are now providing a service incorporating complete seating plans developed from the architect's blueprints of the building. Each plan is built around the Forum chair, a new concept in modular furniture, directed especially to colleges, high schools, hospitals, auditoriums, or any area convertible for double or triple duty. Shells, table arms and other attachments of the Forum chairs are all standard with bases adapted to satisfy any situation such as inclined floors, risers, stationary installations. — Clarin Mfg. Co. (A/W), 4640 W. Harrison, Chicago.

patio doors of wood

Doors that adapt to any floor finish, with no size or design restrictions, are offered in the new Woodglide patio doors. Multiple-light because of the difference in glass usage, they also are said to cost less in general because of this factor. Doors are constructed of vertical grain Douglas fir, preservative treated. Weatherproof nylon sheaves are housed in zinc with positive foam rubber weatherstrip at stiles and double wool pile weatherstrip at head and sill. Doors run on die cast aluminum track and threshold, supplied in one piece. Available in stock or custom sizes or to special order.—Puget Sound Manufacturing Co. (A/W), Box 973, Tacoma, Wash.

whisper quiet fan

Because of its low speed, the Whispervent thinwall ventilating fan is said to be exceptionally quiet, and still move 60 c.f.m. of air. Easily installed in either new or existing construction, its shallow depth permits placement in wall or ceiling. The polystyrene grill has egg-crate design, in brighter-than-chrome plated, or natural, off-white finish. — Leigh Products, Inc. (A/W), Coopersville, Michigan.



the lunar-tick

A circle of heliotrope half-moons in orbit around a smaller circle of matching lunar slivers describe the newest, most lighthearted approach to time. This bon-vivant electric wall clock encompasses a white drum shape of spun aluminum, 15-in. by 3¾-in., vivid orange hands and 12 small dots of color on the raised rim. Spelling gaiety for all walls, the Lunar-Tick provides an amusing as well as useful accessory, for home or office, wherever the decor is appropriate.—Howard Miller Clock Co. (A/W), Zeeland, Michigan.

silk screen motifs in laminates

Available in 28 solid colors and op design library of 28 silkscreen p terns, the new Citation Series decorative laminated plastics comes in any Formica color or wo grain combination for backgro or overprint. The new series will p vide a complete range of solid-c shades and tones designed to m current resurgence of bright acc colors. Silkscreen patterns, rea stocked, come in a wide variety styles ranging from bold striped colonial pictorials, abstracts and (ental motifs. Solid colors bear s exotic names as Lemon Twist, Ch ney, Absinthe.—Formica Corp. (A/ 4614 Spring Grove Ave., Cincinn

fire-rated glass shingle

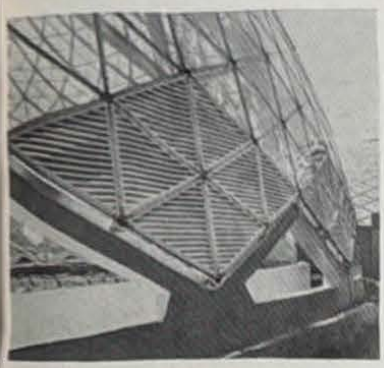
Fiber Glass 325 Seal-O-Matic shin recently introduced by Johns-M ville, carries the Class "A" wind sistant rating from Underwrit Laboratories. The shingle contain fiber glass mat that withstands and retards flame spread. shingle's heavy weight—325 lbs. 100 sq. ft.—giant ceramic granules double coating of asbestos reinfor asphalt assure long life. Available four shadow accent colors and a tw tab design. — Johns-Manville (A/ 22 E. 40th St., New York 16.

maximum security locks

A Hookbolt lock, developed for use sliding glass doors of commercial a industrial buildings, has counte balanced bolt action to resist pry in any direction, and prevents forc entry. A case-hardened center c in the bolt turns away cutting to The Hookbolt MS lock is desig for use in 1¾" stiles, where maxim security is essential.—Adams R Manufacturing Co. (A/W), 540 We Chevy Chase Drive, Glendale 4, Cal

20-year guarantee

An improved fabricating process gives the Alsynite Series 800 Superglaze translucent plastic panel two to three times weather resistance of conventional panels and is guaranteed for 20 years, first such fiberglass plastic panel guarantee. The Superglaze process is based on two surface mats of monofilament glass fibers which enclose a central reinforcing mat of fiberglass strands. All three plies fuse into a 100 per cent fiberglass sandwich when saturated with acrylic modified resins and cured under controlled heat and pressure. Superglaze panels come in a variety of sizes and colors, both flat and corrugated.—Alsynite Div. (A/W), Reichhold Chemicals, Inc., White Plains, N.Y.



thin-line louvers

Specifically designed for curtain walls, interior and exterior partitions, windows and window walls, C/S Thin Line Louvers are fabricated in any width or length desired without exposed mullions. This permits a horizontal line, without interruption, along perimeter of a building, and allows installation of any height, from 4-in. up to 40-ft. or more. Sixteen standard models are offered for most opening conditions. Triangular and other specially shaped louvers can be supplied, as well as special curved blade, curved to a true radius. Frames are either flanged L type or a legged A frame. Four blade styles are available and interchangeable in both frames. C/S Thin Line Louvers are fabricated from extruded aluminum sections in a variety of finishes, clear or color. — Construction Specialties, Inc. (A/W), 55 Winans Ave., Cranford, N. J.

wind-load calculator

Measuring only 4½-in. in diameter, a simplified slide-calculator can be employed for estimating thickness requirements of flat glass for any vertical window supported on four sides. Starting with the long and short dimensions of the window, the user selects the desired wind speed in miles per hour, then reads pressure in pounds per square foot and the required glass thickness directly from the calculator. A safety factor of three is already included in the formula. Strength of patterned glass windows can also be calculated if thickness at deepest point of pattern is used. Available for twenty cents each.—American-Saint Gobain Corp. (A/W), P. O. Box 929, Kingsport, Tenn.

new word in wall coverings

With a texture and surface reminiscent of grass cloth, Vanaweve wall coverings are adding a new dimension to design. The woven coverings, of Dow Chemical's Rovana monofilament, are available in three basic stylings: solid-color and damask patterned in a total of 12 colors; coordinated casement fabrics including six pastels and one woven with Lurex; and 14 coverings with matching drapery fabrics featuring deep, rich colors in solids, textures and stripes. The fabric is fire resistant with a flame spread rating of 1; are colorfast; mildew resistant. Wall coverings can be applied to regular plaster, sand plaster, dry wall, plywood foam insulation or steel panels. Recommended for use in banks, restaurants, hospitals, hotels, clubs, terminals, schools, showrooms, etc., Vanaweve will also be available for home use.—C. W. Stockwell Co. (A/W), 3262 Wilshire Blvd., Los Angeles 5, Calif.

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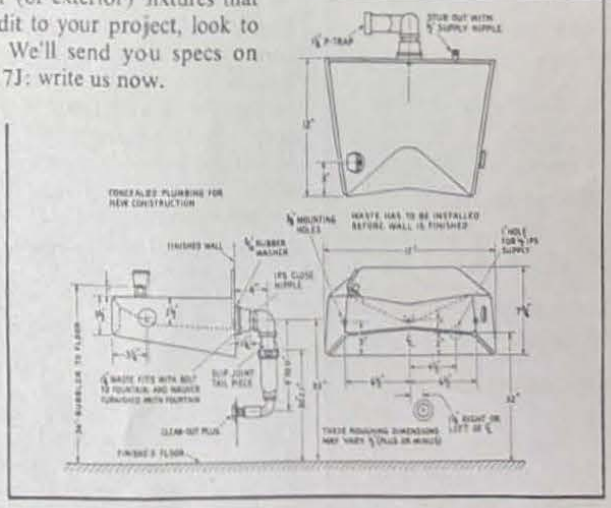

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LITERATURE

Key to Elevator Planning: compilation of layout information on passenger and freight elevators. All traction and hydraulic types are detailed as well as all hatchway doors. Over 100 elevator manufacturers and contractors cooperated under auspices of National Association of Elevator Contractors to produce the 12-pp. booklet.—NAEC Executive Office, 611 Olive St., St. Louis, Mo.

Modern Trend in Balconies: explains how Glassweld, an exterior grade asbestos reinforced panel with a permanently colored mineral surface can be used for both balcony facings and dividers. More than 30 colors are listed in new brochure illustrating balconies in apartment dwellings.—U.S. Plywood, Dept. PRP, 55 West 44th St., New York 36, N.Y.

Resilient Flooring and Roofing (AIA 35-F-12, AIA 37-B-2): details material and architectural specifications of Urapol, a new concept in resilient flooring and roofing. It is described as an esthetic and practical covering for concrete, wood, asphalt, lightweight cellular concrete and metal as well as remedial coating for all existing surfaces. A two component liquid polyurethane plastic, accurately metered, dispensed and sprayed through special equipment, it withstands rigors of weather, exposure to sunlight, abrasive foot and vehicle traffic without deterioration. Guaranteed for three years from date of application, it is comparable in cost to present flooring and roofing materials.—Poly Resins, 11655 Wicks St., Sun Valley, Calif.

Portfolio of Outstanding Designs: features classic red cedar shingle in residential, apartment and church architecture by leading American architects. Included are inserts with interior and exterior photographs, floor plans and general descriptive information. Detailed application specifications for red cedar shingles are covered on a separate insert. Copies may be obtained by requesting on a letterhead.—Red Cedar Shingle Bureau, 5510 White Bldg., Seattle 1.

Fire Rated Ceiling Suspension System (AIA 39-B-1): provides architectural drawings, details and specifications for new 2-component D-L Fire Rated Exposed Grid System which carries Underwriters label for steel framing members, and for other acoustical ceiling suspension systems manufactured by the same firm.—Donn Products, Inc., 700 Bassett Road, Westlake, Ohio.

Stainless Steel Sliding Doors: complete specifications and full details of new stainless steel sl glass doors. Pointed out are ad tages including corrosion resist high strength, beauty and negli maintenance. 4 pp. —Carmel S Products, 9738 E. Firestone B Downey, Calif.

Sound Barriers: shows complete of acoustic panels, modular in struction, for use as sound barr and enclosures for control of nois offices, industrial plants and lab tories. Designated the Series 10 N guard Panel, they are 1 in. thick consist of a fire-retardant, self- porting acoustical core, sandwiche sheet metal. Panels are 75% thin and 33% lighter than construc presently used for high efficency n abatement. Bulletin describes the eral unique, patented innovations sponsible for this advance in n reduction performance. No. K16 Korfund Dynamics Corp., 23X tiague Road, Westbury, New Yor

Gypsum Plastering Specifica (AIA 21-A-2): complete specificat for either hand application or p tering machines including rec mendation of proportion of gyp plaster to perlite or vermiculite gregate.—Gypsum Association, 20 Wells St., Chicago 6, Ill.

Concrete Roof Decks (AIA 37-B deals with vermiculite concrete roof decks and roof insulation. Bo let contains latest properties, insu ing values and application data lightweight vermiculite concrete over formboards, steel decks structural concrete. Explains app ed applicator program and gover standards established by the Verm lite Institute.—Zonolite Co., Dept. 79, 135 S. LaSalle, Chicago 3.

Parking Problems: takes you thro nine parking garages showing the Prescon System allows maxim utilization of space with fewer umns and flexible placement. P tures show fast construction and c savings with use of post-tension prestressed concrete. 12 pp.— Prescon Corp., P. O. Box 4186, Cor Christi, Texas.

Movable Interior Walls (AIA 35-H completely revised 36-p. catalog cludes photos of the Signature inte movable wall system, information sound control performance, techn drawings and specifications.—The F. Hauserman Co., Department 5711 Grant Ave., Cleveland 5, O

• **Permanente Cement Co.:** Harry C. Berryman, Jr. has been appointed sales representative in Central Oregon.

• **Custom-Aire Products:** Robert Volk has been appointed Manager-Manufacturing for this division of Pacific Industries, Inc. The San Francisco firm manufactures heating and air conditioning equipment.

• **Edwin F. Guth Co.:** The George M. Roth Company, 1003 S.E. Grant St., Portland, Oregon, has been appointed lighting representative for the St. Louis firm in the state of Oregon and the southwestern Washington counties.

O. P. Grani, Inc.: The Southern California firm, manufacturers of Fibra-Sorb Tiles, has moved to larger manufacturing and warehouse facilities at 13329 E. Ector St., City of Industry, California.

• **Rosboro Lumber Co.:** Paul Cole, general manager of the Springfield, Oregon company, has named Ralph Fulbright to head the firm's new department of structural timber laminating.

• **Filon Corp.:** The Hawthorne, California firm has opened a new regional sales office in Portland, Oregon, with Ronald Meyer as sales engineer.

• **Wood Conversion Company:** A separate Acoustical Sales Division has been established by the St. Paul, Minnesota manufacturer with five new district offices and field managers throughout the nation. H. S. Thompson will serve the west coast from the new San Francisco office.

• **Formica Corp.:** A realignment of the Formica sales organization in several western states includes the appointment of Robert N. Power as district manager, San Francisco, replacing Harry L. Richards, who has been named manager of architectural sales in Northern California. Joseph F. Cullen replaces Power as district manager, Denver. A new sales office has been established in Salt Lake City with William U. Gerard as district manager.

• **Weyerhaeuser Co.:** W. R. Johnston has been appointed merchandising manager for the firm's wood products division. He will direct advertising, trade promotion, publicity and related merchandising functions in the wood products marketing planning department under J. P. Weyerhaeuser, manager. Gordon Daline, who held this position, has resigned to establish a merchandising consulting firm.

• **Pomona Tile:** Barney G. Sweeney, Seattle district manager, was honored for 35 years of service to the company at their recent national sales convention. A diamond pin, fashioned in the Pomona Tile trademark, was presented to Mr. Sweeney by Drew Schroeder, Pomona Tile president.

• **Challenger Lock Co.:** In a recent expansion of sales and service staff, Del Fiock was appointed western division sales manager of the Anaheim firm.

• **Keuffel & Esser:** Jack W. Burton has been appointed western regional manager with offices in Los Angeles. He will supervise sales and marketing activities of five branch offices covering 11 western states. James K. Cullen has become Los Angeles branch manager for K&E.

• **Georgia-Pacific Corp.:** Announcement has been made of the appointment of H. S. Mersereau as assistant vice president and general manager of the company's southern division.

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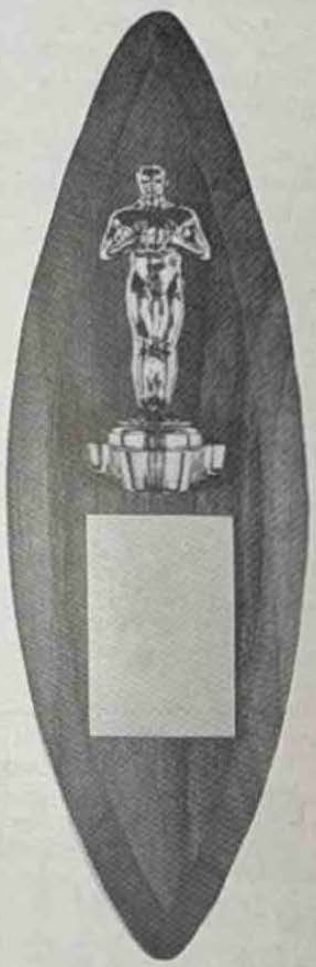

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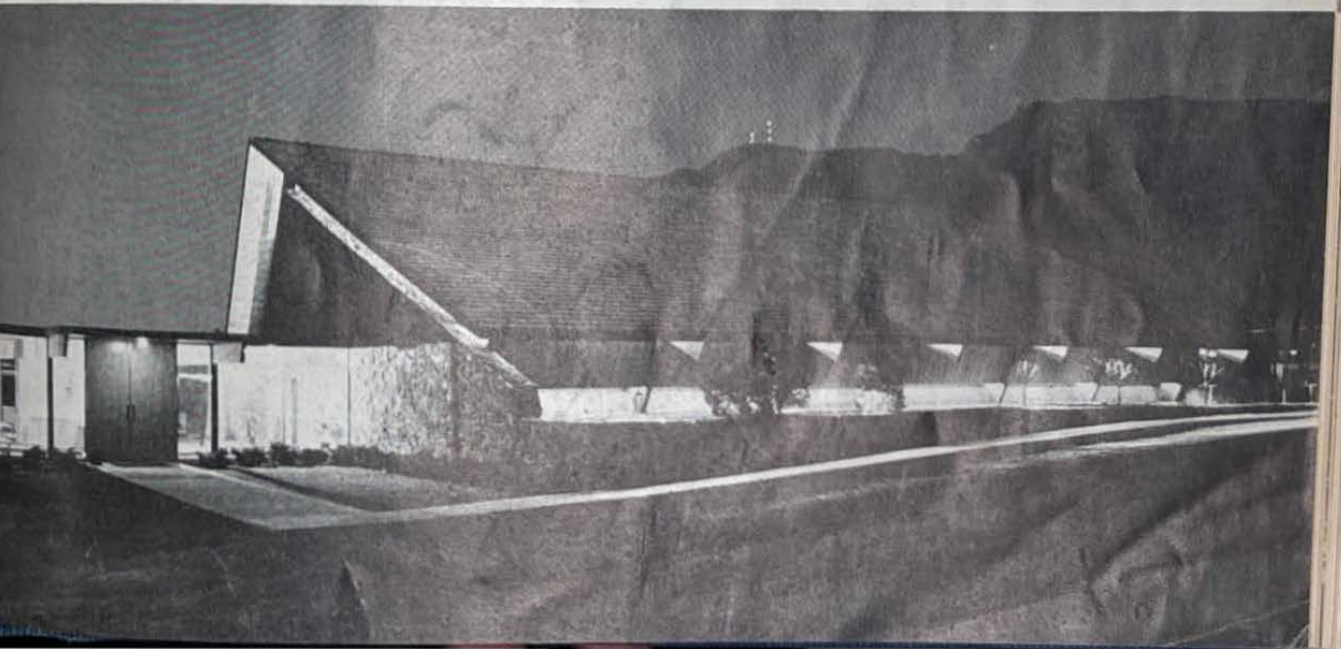

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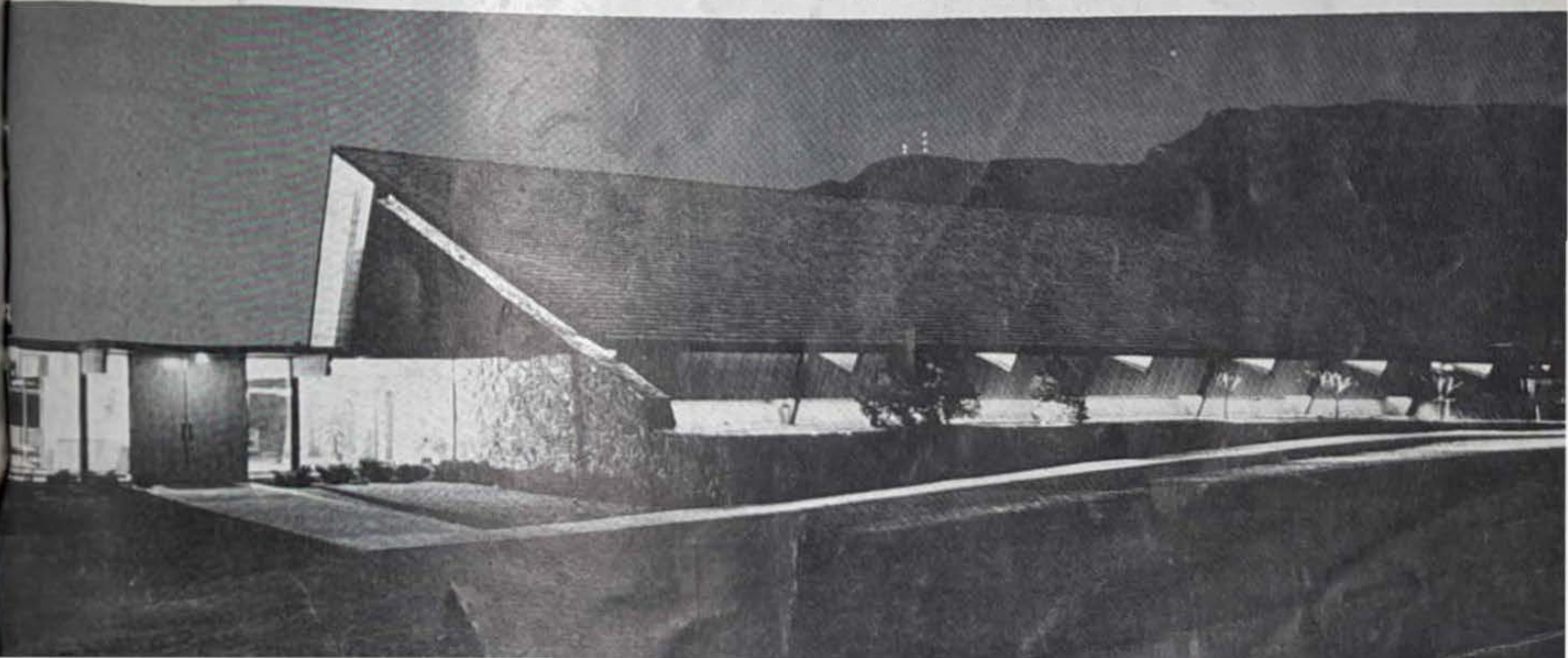

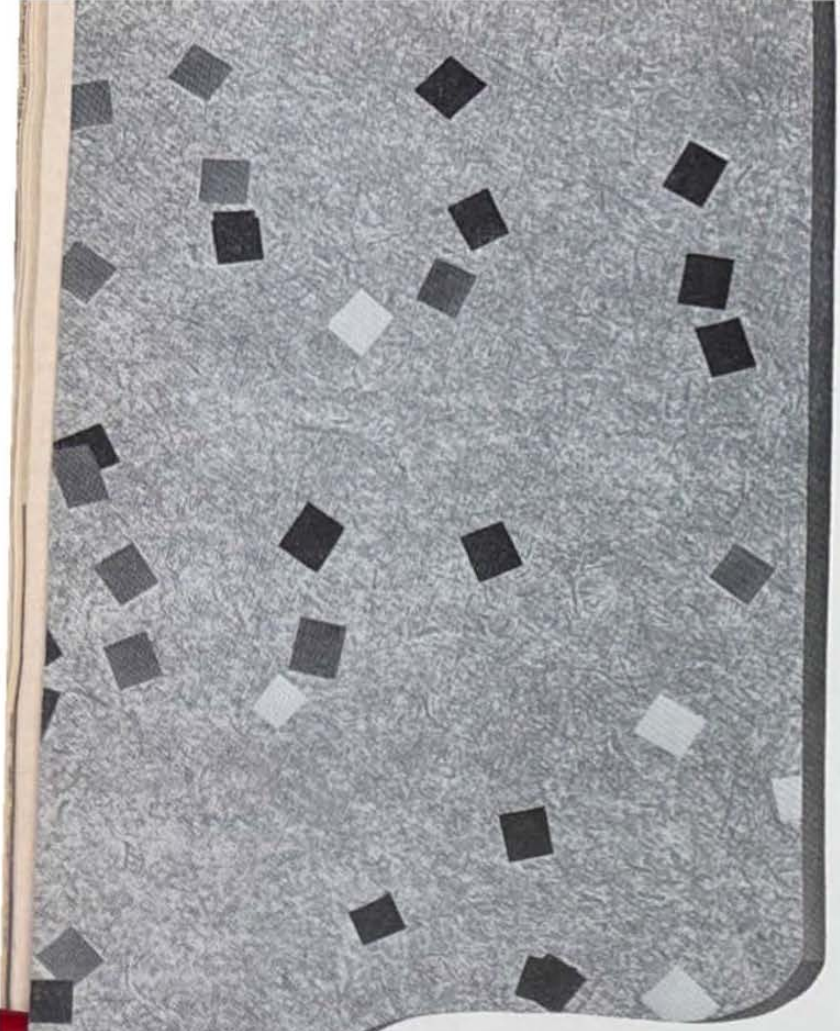

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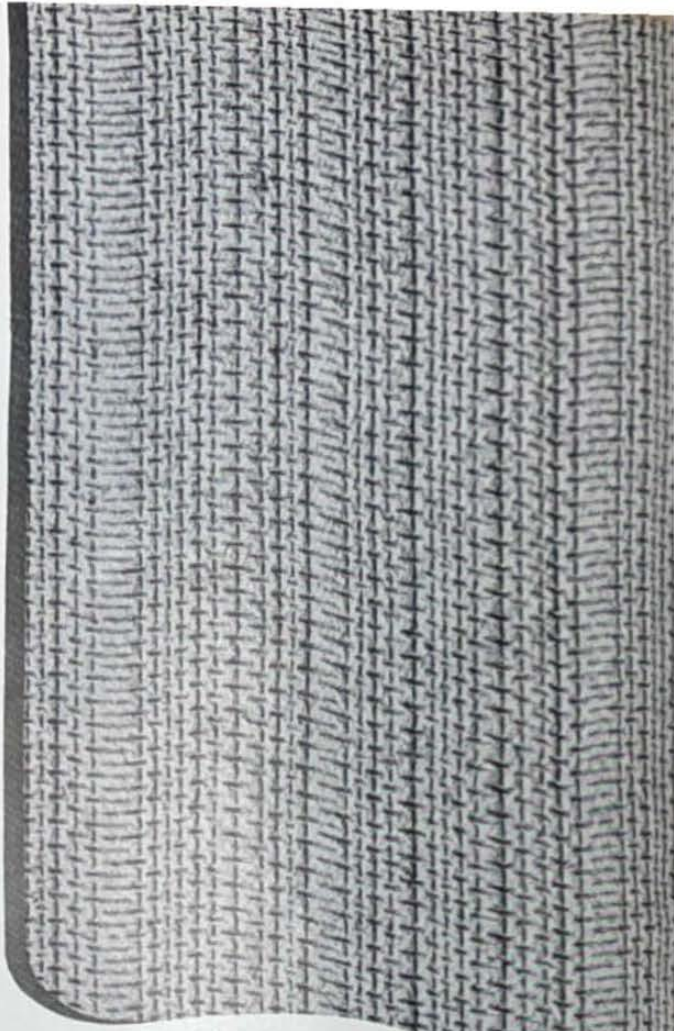

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Business data on page 32

THE COVER: Broadmoor Community Church, Colorado Springs, Colo./Lusk and Wallace, architects. See page 12.

ABOUT THIS ISSUE: So help us, we're running this picture even if some of the staff do think that the components should have been left kicking around the drafting room from whence Architect Eugene Padanyi-Gulyas gathered them together to construct this non-load-bearing column outside this Billings, Montana, office.

They are samples, and he stubbed his toe once too often on them, and became inspired to create this example of Art. Maybe not Art with a capital A, but certainly artistic Expression with a capital E.

All of which leads us to

point out that this issue is something of a departure from the normal A/W. We have one or two design features, notably the strongly delineated Broadmoor Community Church on the cover and starting on page 12. But mostly we have examples of artistic expression in architecture—a dandelion fountain, page 15; some fish and (we think) a ceramic bird or Thunderbird, page 21.

Interiors that express a way of life and a mode of business occupy the following several pages—mostly pictures gifted with ideas.

THE BUILDING MONTH

Highlights & Sidelights

PORTLAND'S PRIVATE URBAN RENEWAL—A $35 million East Side development project, adjacent to the Memorial Coliseum, will involve a six-block, six-acre area, with plans calling for a 350-room motor hotel, two highrise retirement apartment buildings, two highrise standard apartment buildings, with underground parking, swimming pools, parks. Developed by California financier Theron L. Hedgpeth, plans are by the Utah Construction and Mining Co. under their chief architect, Benson Eschenbach.

ONE STATE'S POTENTIAL—In one single month—May 1963—Nevada's Washoe County building permit total hit $2 million, only $3.5 million less than all of 1962. The potential for the year points to double the 1962 valuation. Contributing to the record month were 37 new home starts at Incline Village, Lake Tahoe, where a community of 15,000 is in the making; a $185,000 hotel at the same location, and a $470,000 home permit for a millionaire who is building in Washoe Valley. Total valuation for the year to date in Washoe County: $6.5 million.

MONTANA DESIGN COMPETITION HONORS FOUR FIRMS—Page, Werner & Associates, Great Falls, were accorded First Honors for a building at the College of Great Falls, in the competition sponsored by Montana Chapter, AIA, at the annual joint meeting with the student chapter at Montana State College. Second Honors went to Drake & Gustafson, Billings, for the First Methodist Church at Riverton, Wyoming (see photo above). Awards of Merit were presented to Charles A. Kestle, Butte, for a residence; Page, Werner & Associates for a bachelor residence; Cushing, Terrell & Associates, Billings, for a building at Eastern Montana College of Education and for an office building in Billings.

NEW MEXICO CAPITOL EXPANSION—The Capitol Buildings Improvement Commission at Santa Fe is further considering three possible sites for the Capitol expansion program. New Mexico architectural firms have been invited by the commission to submit information about their firms as the first step toward selecting an architect for the first two buildings contemplated—a legislative-executive building and a state library. There has been some controversy over whether the site should be moved or the present Capitol complex expanded. Proposals have been made recommending a mesa wall territorial style or a Spanish territorial style.

SUB-STANDARD HOUSING—According to the San Francisco director of public health, Dr. Ellis M. Sox, about 24,500 San Franciscans are living in multiple housing units so far below standard as to adversely affect their general health. The count was a result of annual inspection of such dwellings. In an effort to do something constructive, the San Francisco Redevelopment Agency has asked for the construction of 3,895 moderate-priced private housing units in four neighborhoods, to be privately built and owned. To assure modest rents, the Agency would assist builders in getting sites and mortgages below the normal market price with builders who take advantage of this assistance being required to comply with ceilings on rents. In addition, the Agency would like to see constructed some 955 senior citizen apartments and 163 public housing units in the Western addition.

NEVADA TOUGH ON TESTS—Even though an architect can qualify in another state, he cannot practice in Nevada on a reciprocal basis without first passing Nevada tests. The ruling, handed down by Nevada's attorney general, was in answer to a query by Raymond Hellman, secretary-treasurer of the state board of architects. Should an architect fail to pass all or part of the Nevada test three times, he must retake all of the written examination after waiting the required time to qualify in the state. The opinion further stated that the public interest takes precedence over personal interest or convenience of applicants wanting to practice architecture "which directly involves the public health, safety and welfare."

MORE BUILDINGS, MORE STUDENTS, MORE MONEY—By 1970 when census figures say the number of college students will double the present 3.7 million, the annual construction bill is expected to reach $12 billion, or twelve times the amount spent in 1960. Pressures of steadily growing enrollments, coupled with need for more modern classrooms, more complex science laboratories, facilities for audio-visual instruction, and more student housing, give validity to the construction forecasts.

A Philadelphia architectural firm, Noel-Swinburne and Associates, who have been researching this area since 1956, recently sent questionnaires to one-fourth of the nation's 2,028 institutions of higher learning to determine, among other things, each school's building plans for the next 10 years. Of 122 responding colleges, including municipal, state, church and privately-administered institutions, in all parts of the country, planned construction amounted to $1.6 billion by 1972. Types of buildings specifically needed by these schools, ranked in this order: dormitories for men and women students, 229; classroom units, 101; libraries, 40; administration units, 37; science buildings, 32; student unions, 31; gyms, 16; auditoria, 15; and fine arts buildings, 11.

The cost of putting up a new university building has increased almost 10% in the past five years. Behind this cost hike are several factors: some building materials have risen slightly; costs of on-site and off-site labor, distribution and administration. The trend in recent years has been toward a growing dependence of both public and private institutions on public funds, and grants made for research which frequently leads to building expansion.

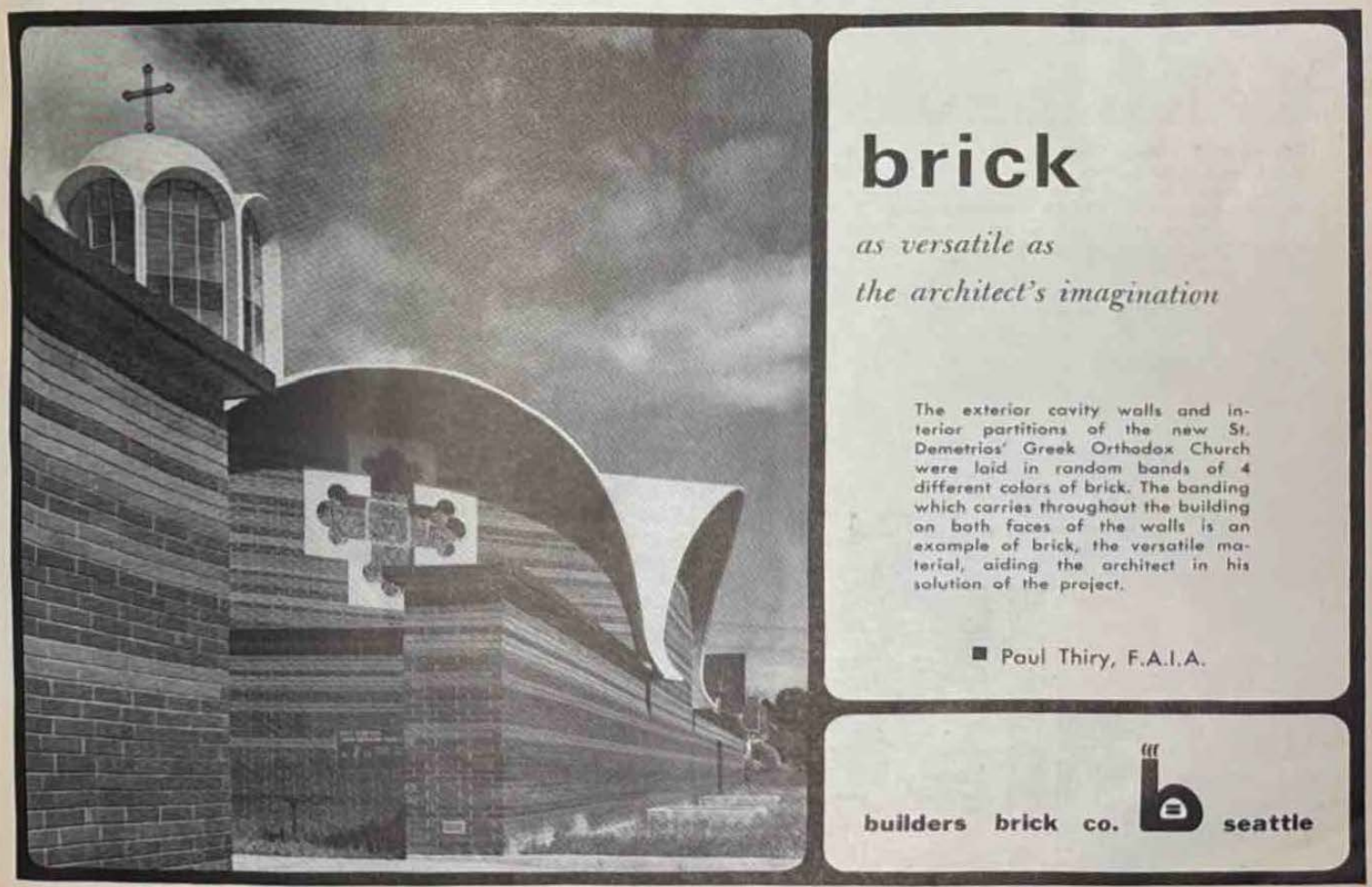
1963 PLANT AMERICA—"Achievement in Industrial and Institutional Landscaping and Beautification contributing to employee and civic pride in our American Heritage" is basis for 11th annual Industrial and Institutional Landscaping Awards Competition sponsored by the American Association of Nurserymen. Entry classifications include (1) manufacturing and utilities, (2) retail and service establishments, (3) public and private institutions and (4) others not included in above classifications. Entries must be received by September 1, 1963. Information available from Curtis H. Porterfield, AAN, 835 Southern Building, Washington 5, D.C.

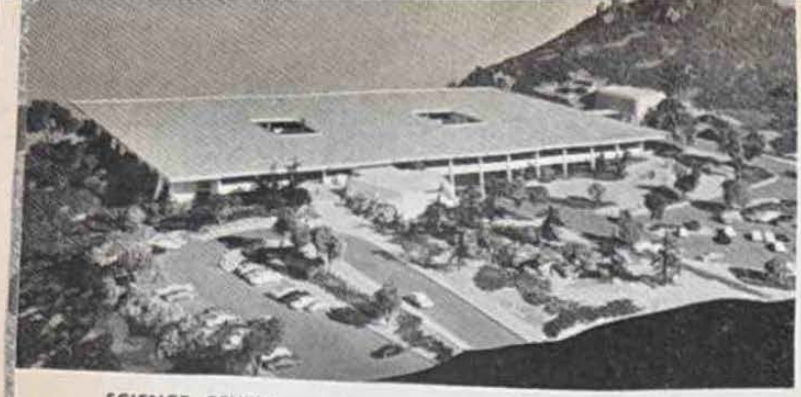
JUST PLAIN AIR—Americans in the next few years may be flocking back to the cities to live, thanks to a more efficient use of just plain air. The upsurge in urban living will be made possible by more extensive use of "air rights"—the privilege of putting up an apartment house over a site already in use. Dr. Walter Gropius, chairman emeritus of Harvard University's Department of Architecture, says that builders will be able to take advantage of air rights over all kinds of sites by using high-strength steels. New developments have given steel the same strength it has always had, but with 10% less weight. Already building codes in several cities have been revised to permit their use, with a saving in cost. The trend, according to Dr. Gropius, will be back to living in high-rise city apartments, close to centers of culture and commerce, and where transportation is not a problem. Also foreseen is the use of "reverse air rights" in which vast underground garages will be dug out from the earth beneath crowded downtown sections of modern cities. Predicted favorite materials of the future: stronger steels and pre-stressed reinforced concrete units.

STATE ARCHITECT—Carl C. McElvy, Sr., principal architect at the University of California at Los Angeles, has been named state architect by California's Governor Edmund G. Brown. The $20,000 state architect position was created by the 1961 legislature which removed the position of architect from civil service.

HAWAIIAN PROPOSAL—A planned multi-million dollar development at Kona may make this area Hawaii's second largest tourism concentration. A five-year project plan would include a marina on Honokahau Bay, golf course, hotel sites, park and beach facilities, residential development stretching about three and one-half miles inland from the mile-long shore frontage. The Kona coast, probably Hawaii's largest remaining latent asset, has the greatest area of comparatively quiet waters in this region of the Pacific suitable for all water activities. Community Planning, Inc., in a report to the state, points out that Kona is ideally situated for visitors who prefer a non-commercial atmosphere, quiet relaxation, good fishing and pleasure boating. It is expected that an access road linking Kona with the new Hilo jetport, and combined air fares from the mainland via Honolulu, would spur vacationer traffic in the Kona area.

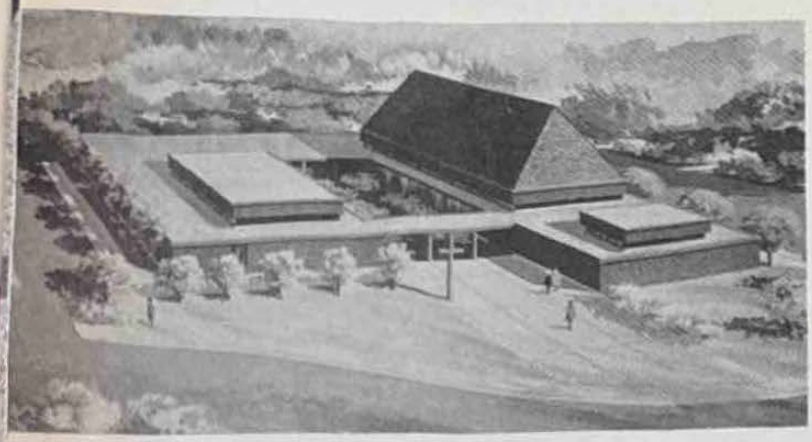
$35 MILLION COMMERCIAL COMPLEX—Planned by New York architect Edward Durell Stone, FAIA, in association with California designer Millard Sheets, a 20-acre urban renewal site in downtown Sacramento, will be developed by Reynolds Metals Company. The Sacramento Redevelopment Agency announced that the firm's subsidiary engaged in urban renewal operations has been selected as developer, subject to final negotiations on detailed plans.





SCIENCE CENTER near Thousand Oaks, California, will be devoted entirely to basic scientific research by North American Aviation, Inc., accommodating some 325 scientists. Building will feature a series of tapered columns, creating impression that the structure is an outgrowth of its 61-acre hilltop site. Rectangular structure will have stark white concrete exterior, expansive panels of solar glass, flat roof with wide overhangs. Moderately terraced, paved sections, hidden from view, will provide parking near entrance. Total cost, including land, building and equipment, $6 million. Architect: Albert C. Martin & Associates, Los Angeles.

FIFTEEN STORY office building in downtown Albuquerque will follow southwestern style in design with interiors of precast terrazzo panels in aluminum frames set between load-bearing columns of white concrete. Tree-planted promenade on mezzanine roof will be reached through third-floor restaurant with second dining facility on rooftop. Architect: Lawrence A. Garcia & Associates, Albuquerque.



ST. ANDREW PRESBYTERIAN CHURCH, Renton, Washington, will feature cedar inside and out. Exterior finish will be cedar shingle siding and roofing, cedar fascias, brick paving and amber glass. Cedar panelled walls and ceilings will be used on interior. First phase will include a combination social hall, temporary sanctuary, work office, classrooms, nursery, with ultimate development adding more classrooms, main sanctuary seating 250, narthex, choir robing, work sacristy, chapel, kitchen, offices and fellowship room. Architects and Engineers: Young, Richardson & Carleton, Seattle.

PROJECT PREVIEW

MAYER CENTRAL PLAZA building, Phoenix, 25 stories high and of steel frame construction, will be tallest structure in Arizona upon completion. New construction will harmonize with existing Mayer Central building to the north with ground floors in this area facing onto landscaped mall separating two buildings. A restaurant is planned for top floor, 300' above street level. Cost: $20 million. Architect: Irvin Finical & Associates, Tucson.

Job of the Month

Nature embraces the infinite within an encompassing circle

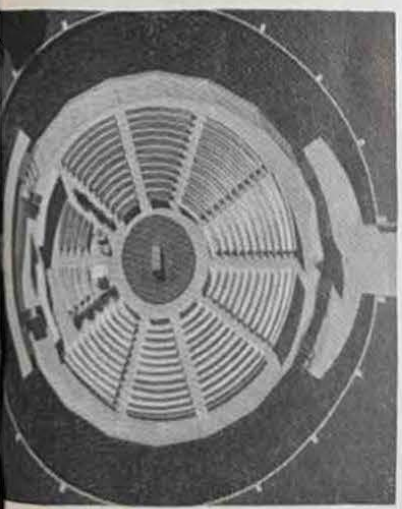
TO FUSE THE MAXIMUM number of people in an intimate union with the sanctuary and the high altar, and still honor the traditional liturgy with the living vitality of an expressive religious building, the architects chose a bold, articulate structure that would reinforce this single, central idea, for St. Peter's Roman Catholic Church at Linda Mar.

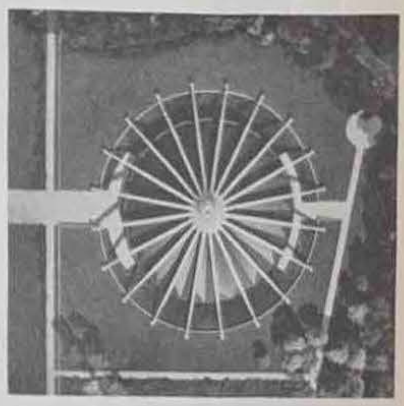
The first church in-the-round to be built for the Archdiocese of San Francisco is part of a proposed parochial center that will include rectory, convent, school and recreational center. The church, designed to hold 1000, will have only 11 rows of seats, with the ground of the interior excavated about three feet, to slope downward toward the altar. The modeled skeletal structure, a white exposed arch ribbed dome, precast of reinforced concrete, follows the principle of the flying buttresses used in a Gothic cathedral, similar to Notre Dame de Paris. The roof is a suspended canopy of plywood shells, rimmed by a nearly continuous and unobstructed view into a sunken garden, visibly contained within the church proper by the extended radiating structural arms of concrete. The general effect of the interior is of an excavated garden with a hanging dome. A central lantern is pierced by the single ascending shaft of the cross. Sides of the beams, just below the crown on the roof, are to be filled with gold mosaic in the Byzantine tradition.

Exterior walls of plate glass look out upon a large basin enclosed by a stream and dense trees on the north and east, high hills to the south. On the west, the site opens directly onto a residential development, providing direct and inviting access to the church proper. The 40 acre site, and the terrain, promise retention of a natural beauty despite future growth of this community, located some 20 miles south of San Francisco.

The church occupies 12,670 sq. ft. and will cost $216,000, exclusive of pews, altar, pulpit and liturgical objects. Pile foundations and engineered fill, together with site work and utilities for both church and rectory, add another $104,600 to the total cost.

The Reverend Francis E. Reilly is pastor of the church designed by architect Mario J. Ciampi, FAIA, in association with Paul W. Reiter. Isadore Thompson is structural engineer; Dan Vandament & Associates, mechanical and electrical engineers, and Dan Coleman & Associates, civil engineers. Pacific Coast Builders, San Francisco, are general contractors on the project.





T-SQUARE TALK

new firms

Harold D. Engstrom and Gerald W. Deines have formed a partnership to be known as Engstrom and Deines with offices at 623 South Center St., Casper, Wyoming.

Formation of the partnership of Stickney & Hull for the practice of architecture and planning is announced by Charles D. Stickney and William R. Hull. Offices are at 940 Dwight Way, Berkeley. Mr. Stickney was formerly a senior designer with Skidmore, Owings & Merrill, San Francisco, and Mr. Hull was in the office of Goetz, Hanson and Johnson, Oakland architects, The new partners were winners of the recent Los Gatos Civic Center competition.

Theodore L. Kalstrom has opened an office at 5728 S. Gallup St., Littleton, Colo. He has practiced architecture in the Denver area for nine years.

The offices of Robert Dean Laramey, Denver, and Ken White and Associates, Aurora, have merged. The new partnership will practice under the name of Laramey/White, AIA, Architects, at Bank of Aurora Building, 9000 East Colfax Ave., Aurora, Colorado.

Richard L. De Gette and Harry H. McMichael have formed a partnership for the practice of architecture at 295 Clayton, Denver.

Los Angeles architects-engineers Parker & Parker announce the formation of a new partnership under the name of Parker, Kensler & Parker, at 1227 W. Temple St. Principals in the firm are Leland A. Parker, Arthur H. Kensler and Edward H. Parker.

firm changes

Rex Whitaker Allen and Associates, in moving to new offices on Union Square at 259 Geary St., San Francisco, announce the addition to the staff of Warren Radford, who has been a practicing architect for 15 years.

John Graham and Company, architectural and engineering firm of Seattle and New York, has opened an office in San Francisco at 120 Montgomery Street. William Richard Armor, a former associate of the John Carl Warnecke and Associates firm in San Francisco, will be in charge.

Guirey, Srnka & Arnold, Phoenix architects who have recently moved into a new building at 3800 N. Central Avenue, announce the association of George W. Sprinkle at their new Flagstaff office, Suite 404, 121 E. Birch St.

Stanley E. Sporseen has been associated with N. W. Haner & Associates, Portland engineers-consultants, and the firm name has been changed to Haner, Ross & Sporseen.

Medford architects Robert J. Keeney and Jeffrey L. Shute have formed an association. They will continue practice in the Keeney office at 310 Medical Center Building.

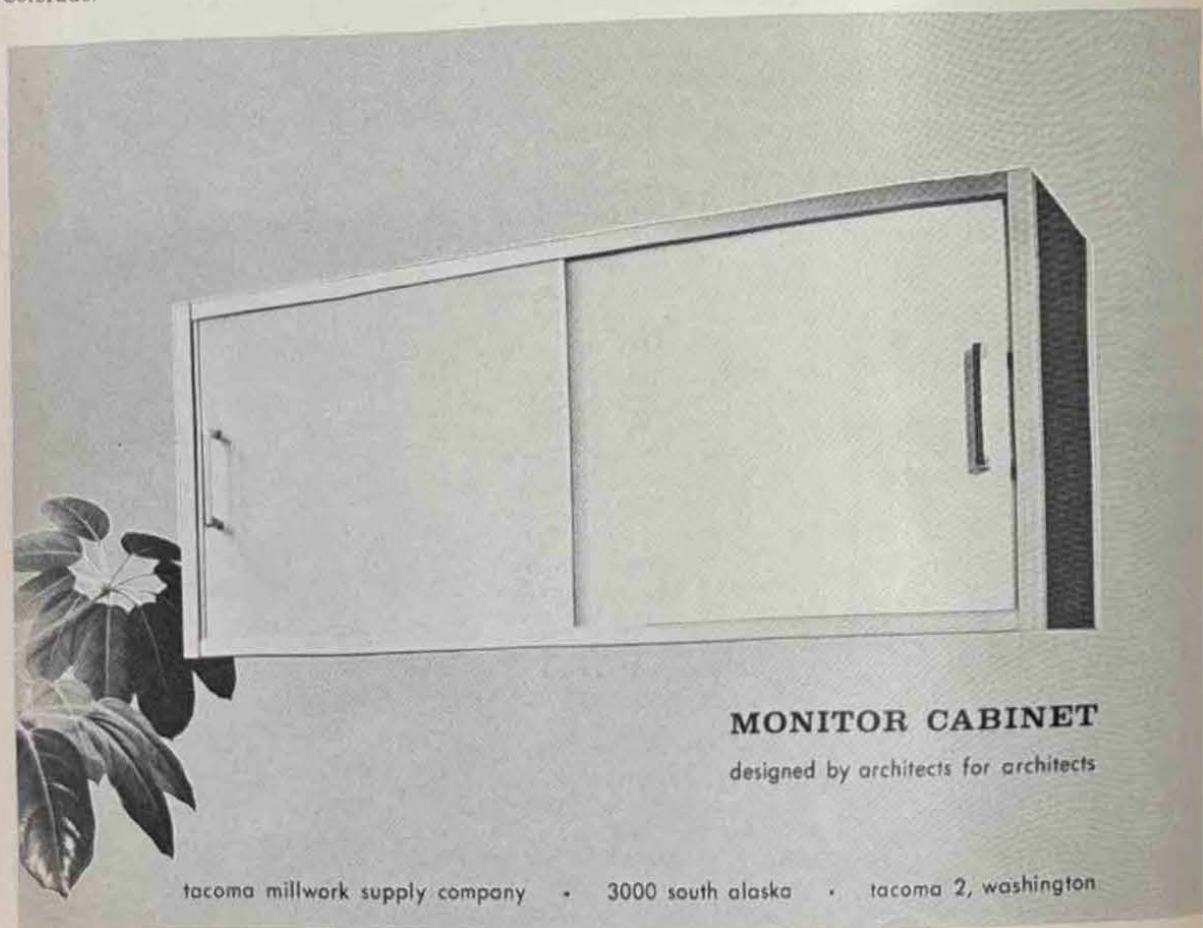
elections

John F. McGuire, partner in the Denver firm of Langhart, McGuire and Hastings, has been elected secretary of the Colorado Chapter, AIA.

Arthur H. Schreiber, Phoenix, is the new president of the Arizona Chapter, American Registered Architects, a national society.

Louis E. Gelwicks, vice president of the Rex Whitaker Allen and Associates firm, San Francisco, was elected chairman of the Architects' Section of the Association of Western Hospitals at the recent association meeting in Los Angeles.

New officers of the Puget Sound



Chapter, Construction Specifications Institute, installed June 22, were president Harold Keeney, Jr., Seattle architect; vice president, Robert S. Laney, Pacific Northwest Bell Co.; second vice president, Harlow C. May of the John W. Maloney architectural firm; secretary, Harland B. Dean, Barclay Dean, Inc.; treasurer, Robert Hugh Ross, Fred Bassetti & Co., architects; directors, S. Maynard Sundt, NECA, three years, Clarence H. Irwin, John W. Maloney architects, one year.

appointments

✔ Five California architects have been appointed to the National Panel of the American Arbitration Association, to serve in disputes over the performance of commercial contracts. Appointed were Birge M. Clark, FAIA, of Clark, Stromquist, Potter & Erlich, Palo Alto; Marvin J. Kudroff of Daniel, Mann, Johnson & Mendenhall, Los Angeles; Ernest J. Kump, FAIA, of Kump Associates, Palo Alto; Albert B. Thomas of Barovetto and Thomas, Sacramento; and Hachiro Yuasa of Berkeley.

✔ Paul Thiry, FAIA, Seattle, has been appointed by President John F. Kennedy to a six-year term on the National Capitol Planning Commission.

✔ W. Gayne Wimer has been appointed to the post of vice president and general manager of Richard George Wheeler, AIA & Associates, architects and engineers, San Diego. Mr. Wimer, who joined the Wheeler firm in 1953, will be responsible for all client relations and the direction of internal production.

✔ Harry Loners, partner in the Billings firm of Loners & Stroebe, has been appointed a director of the Billings Builders Exchange.

✔ Seattle office of R. W. Beck & Associates has appointed Talbot Wegg, architect and planner, to head a new consulting service of the firm in planning urban renewal and codes for city, county and state agencies.

new addresses

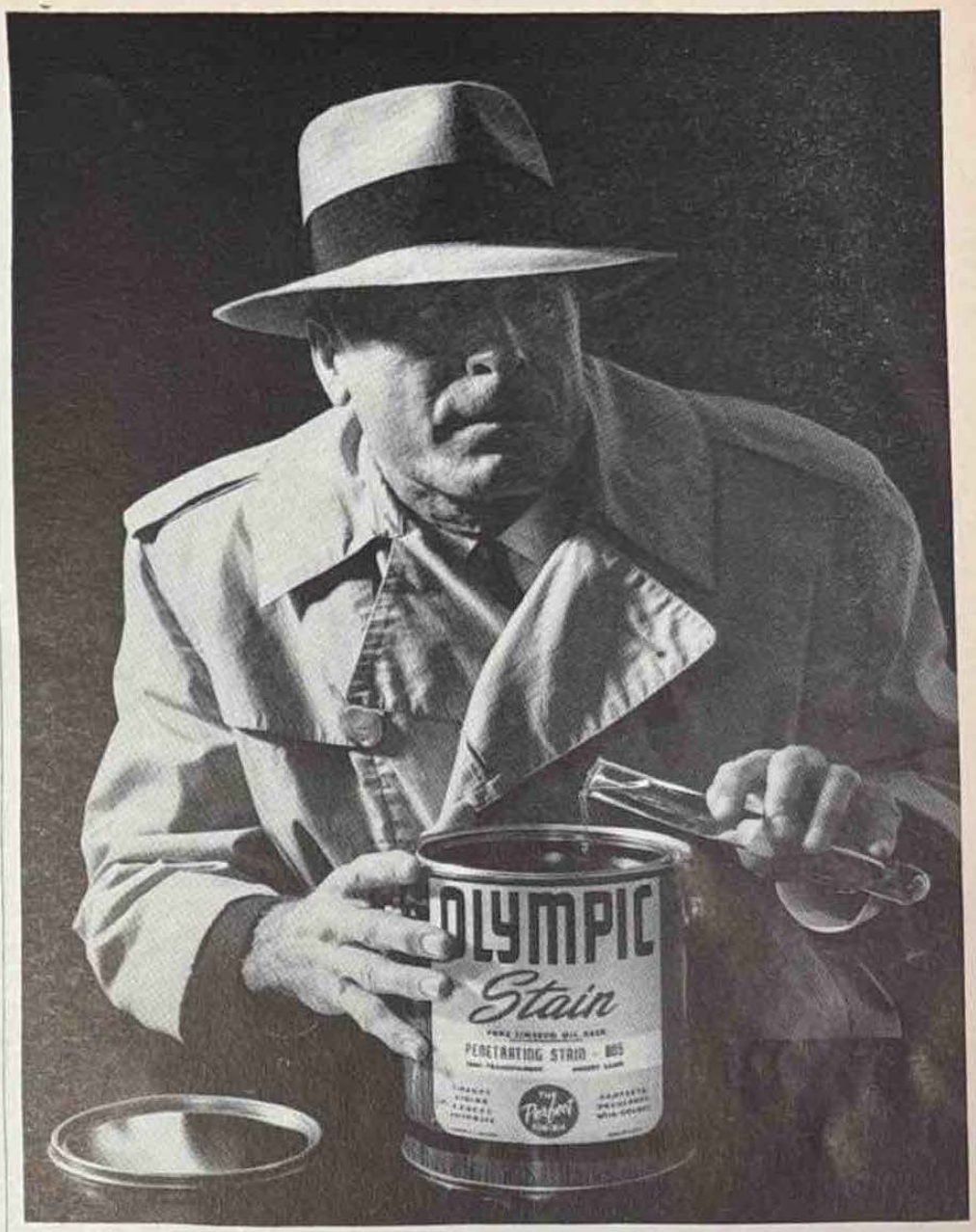
✔ Central Arizona Chapter AIA to 2720 N. 16th St., Phoenix.

✔ Robert J. Grossman to S. 1517 Wall St., Spokane 41.

✔ James K. Levorsen to 47 Kearny, San Francisco 8.

✔ Miner and Miner, Consulting Engineers, Inc., to P. O. Box 548, Greeley, Colorado, from Littleton.

✔ Marshall W. Perrow to 600 Commerce, Tacoma 2.



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T-SQUARE TALK continued —

Roger A. Reeves to 2991 S. Fillmore Way, Denver.

Higgins & Root to 400 Blossom Hill Rd., Los Gatos, from San Jose.

Marvin L. Taff to 9551 Sherwood Forest Lane, Beverly Hills, from Los Angeles.

Daniel L. Dworsky and Associates to 1017 N. La Cienega Blvd., Los Angeles.

Jack Chernoff to 5274 W. Pico Blvd., Los Angeles, from Beverly Hills.

George Bissell, Jr. to 917 Glenneyre, Laguna Beach.

Ray C. Abst to 1022 N. Henry Ave., Modesto.

Armann, Elliott & Scott to 2106 S. Bascom Ave., Campbell, Calif., from San Jose.

Roy E. Lundgren to 4 Wainwright Place, Mill Valley, Calif., from Aberdeen, Wash.

Higginbotham/Nakata & Muir, architects and planners, are located at 206 East Pikes Peak Ave., Colorado Springs. The March issue incorrectly listed them at this address in Denver.

R. A. Braman to N. 35, 1280 Albion, Denver.

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miscellany

Holland & McGill, Architects-Engineers, has added P M Engineering Co. as a new service for contractors and builders in the Intermountain area. This complements the complete engineering, detailing, drafting and estimating services in the engineering field plus full architectural facilities. P M is located at the same address as the parent company, 3868 S. 2nd East, South Salt Lake, with branch offices in Denver and Hayward, California.

The California's World's Fair in Long Beach, has retained Charles Luckman Associates, Los Angeles, as master planners and coordinating architects for the development of the 500-acre site.

Victor Gruen & Associates, Los Angeles, will design the new Cathay Circle building and occupy about one-third of its office space as their new offices upon completion early next year. The building will include reconstruction of the historic 1,126-seat Carthay Circle Theater, with the design of the rest of the redevelopment for offices and commercial centers.

The University of Arizona's Department of Architecture, now rounding out its fifth year, has been accepted into the group of nationally accredited architectural schools. Sidney W. Little, department head and dean of the UA College of Fine Arts, announces that plans are under way for expansion and an increase in the program of visiting critics and lecturers.

William W. Wurster, dean of the school of architecture and environmental design at the University of California, retired June 30, ending 20 years of educational work. He will continue the practice of architecture with the firm he organized in 1926, Wurster, Bernardi & Emmons, San Francisco, and will retain his position as a member of the Capitol Building and Planning Commission.

deaths

Memorial services for Clifton J. Brady, partner in the firm of Naramore, Bain, Brady & Johanson, were held in Seattle on June 13. Mr. Brady, a practicing architect in Seattle for 36 years, passed away in a hospital after a short illness. A graduate of Iowa State College, he came to Seattle in 1927 and formed an association with Floyd Naramore in 1931. He was a past president of the Seattle Chapter, AIA, and was a licensed civil and structural engineer as well as a registered architect.

OFFICE AIDS

LETTER RACK

Sorting and temporary storage of mail are speeded up with the TelKee letter rack, a ten-compartment unit that can stand alone, stacked, or side by side. Each rack is provided with a numbered or lettered strip for quick sorting and filing. A black rack is standard, but color can be furnished on request. —TelKee, (A/W), Dept. LR, Glen Riddle, Pa.

INK SPECS CHART

This two-sided chart helps you spot the differences between six kinds of black ink, tells which surface is suitable for each, and gives instructions for erasure or removal. Prices and sizes are also given. Available free of charge from Higgins Ink Co., Inc., (A/W), 271 Ninth St., Brooklyn 15.

PERENNIAL PENPOINTS

Drafting film causes ordinary penpoints to wear down rapidly. But a new technical fountain pen, called the MARS-500, has been designed with up to 5 mm. of usable length, and its point is said to wear from 4 to 30 times longer on drafting film than conventional penpoints. The pen uses acetate ink as well as India and colored ink, and is claimed to start in "two shakes," even after days of idleness. Seven points, interchangeable with those in most other pens, are offered in line-widths from 0.2 mm. to 1.0 mm.—J. S. Staedtler, Inc., (A/W), Hackensack, N.J.

FLAT FOLDING FILE

Why get rolled up in your blueprints? A wide selection of sheet files, available in tan, green, blue, gray, or multicolor finish, has been designed for quick reference. The wall-type files fold flat against wall when not in use. Rubber-tipped lock clips hold up to 350 sheets. Sizes range from 24 to 42 in. wide.—Lewbill Industries, Inc., (A/W), Box 221, Scottsdale, Pa.

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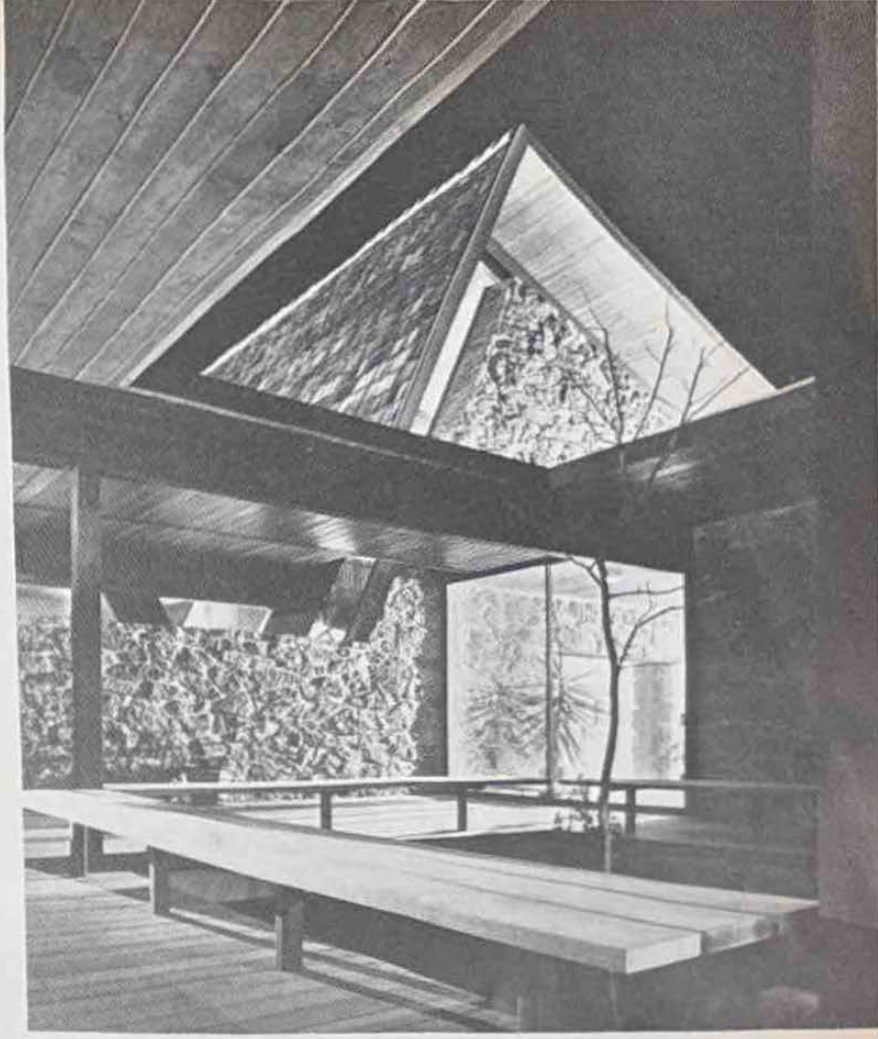


Dignity and serenity without sacrifice of warmth

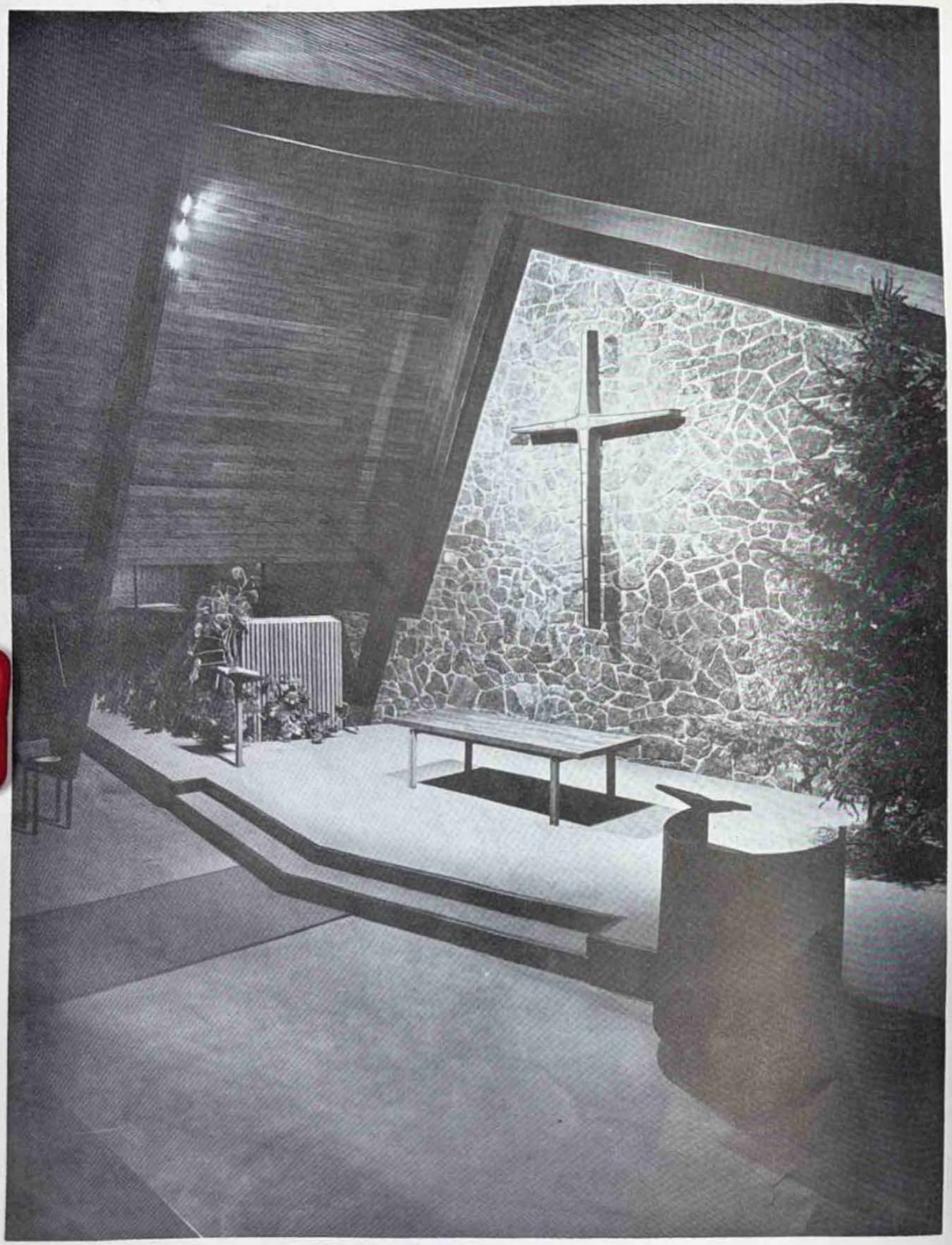
BOLD LINES of strong materials in character with the Colorado mountains give this church a special dignity in which Protestants of all denominations are free to interpret their individual beliefs. The basic concept was established for an environment to convey a feeling of dignity, serenity and ennoblement without sacrificing warmth—a place for those who believe that God resides in the individual and who are concerned with the opportunity for meditation and introspection, yet at the same time a place for those who consider God as an external omnipotent force before whom they wish to feel awe, reverence and humility.

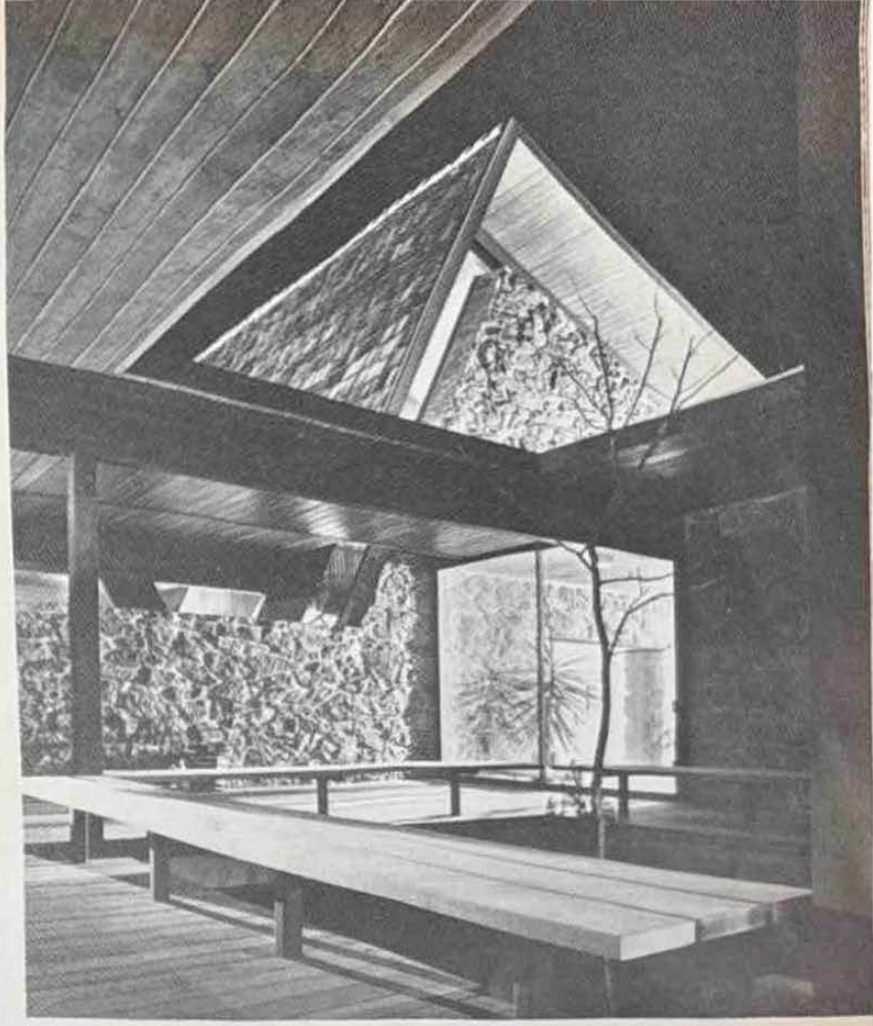
The architect translated these desires into a group of buildings with bold lines and materials in character with the surrounding mountains. Using rock, glass and wood, a strong continuity is maintained throughout the complex.

The sanctuary, with its free standing organ and choir loft in the rear, was set into the hillside to minimize exposure to the busy thoroughfare on the north and

BROADMOOR COMMUNITY CHURCH
Colorado Springs, Colorado

Lusk & Wallace, architects





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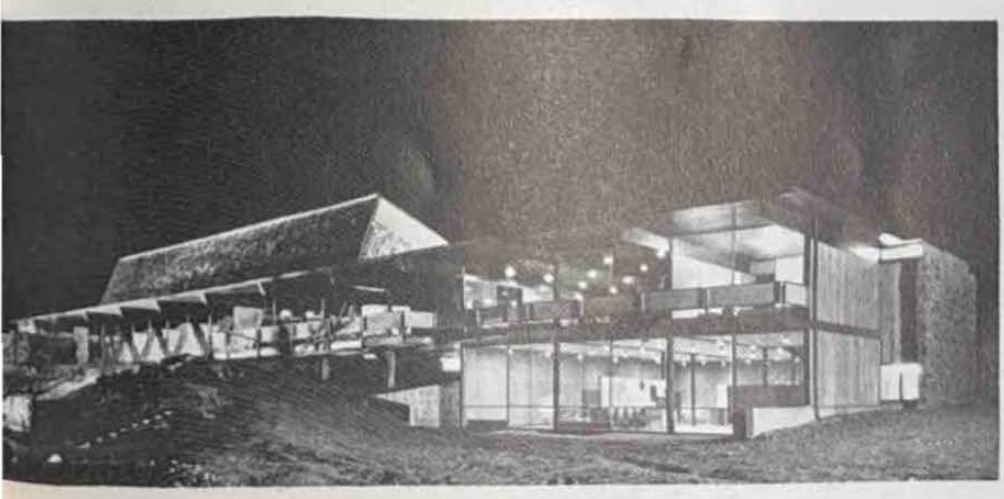

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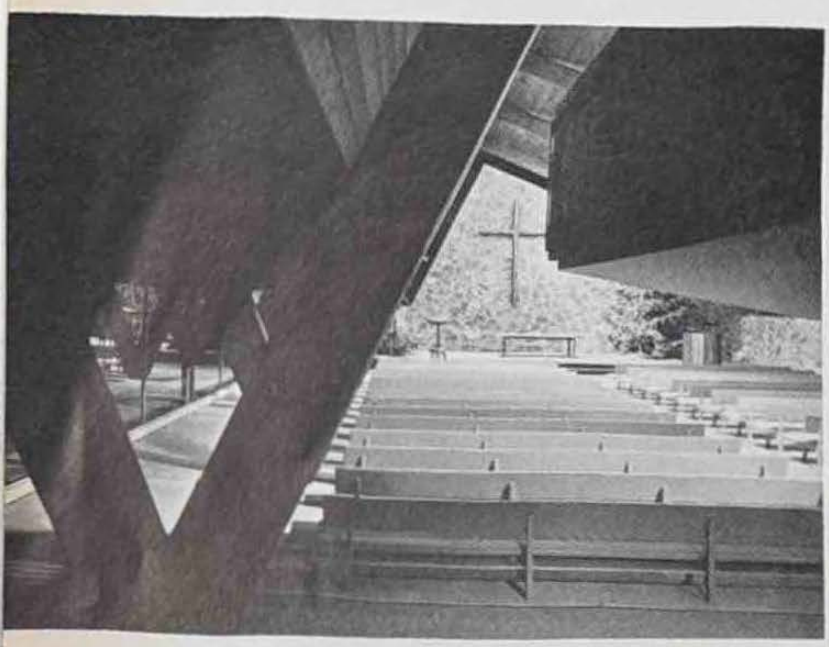
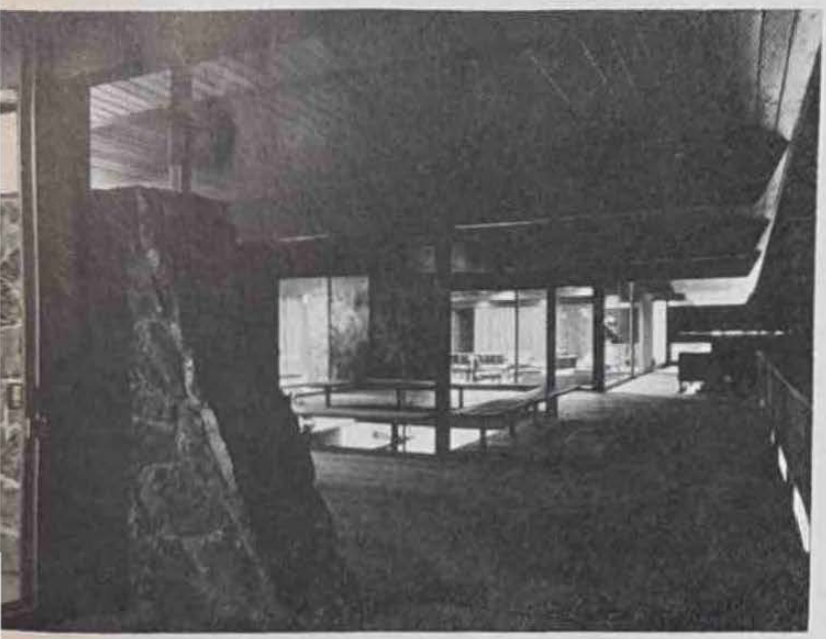




to bring it into closer relationship with a glen. Glass walls open to this "meditation glen" with its pool, fountain and meandering walks. Beyond this is a lake and finally a sweeping panorama of the front range of the Rockies.

From the narthex and fireside room, sliding glass doors open to wide porches overlooking and leading to the glen.

The construction program was for a three-stage complex, with the identity of a new church to be established in the first stage. Thus the sanctuary was the first unit, and it was necessary to incorporate the mechanical facilities and an office into this unit. The fellowship wing was added next, utilized now as a temporary church school with movable storage units to form classrooms. This will be a permanent youth and fellowship area once the church school is completed.

Even in its transitional phase, the complex has embraced the power and beauty of nature through careful siteing planting and use of idigenous materials. It was one of four awards honored by the Church Architectural Guild at their national conference in March.

GENERAL SPECIFICATIONS

Structural Framing: Wood laminated beams.
Exterior Walls: Moss rock and redwood.
Roof: Wood deck and shake shingles, both red cedar.
Floors: Carpet, vinyl asbestos and exposed aggregate, concrete slab.
Windows: Sliding glass, full height.
Ceiling: Exposed deck and beams, acoustical tile.
Interior Walls: Moss rock, redwood, gypsum board.
Heating and Ventilating: Hot water fin tube heating.
Lighting: Incandescent. **Doors:** Solid core mahogany.
Area: 13,633 square feet. **Cost:** $237,700.

The Dazzling Dandelion

and other adventures in artistic expression

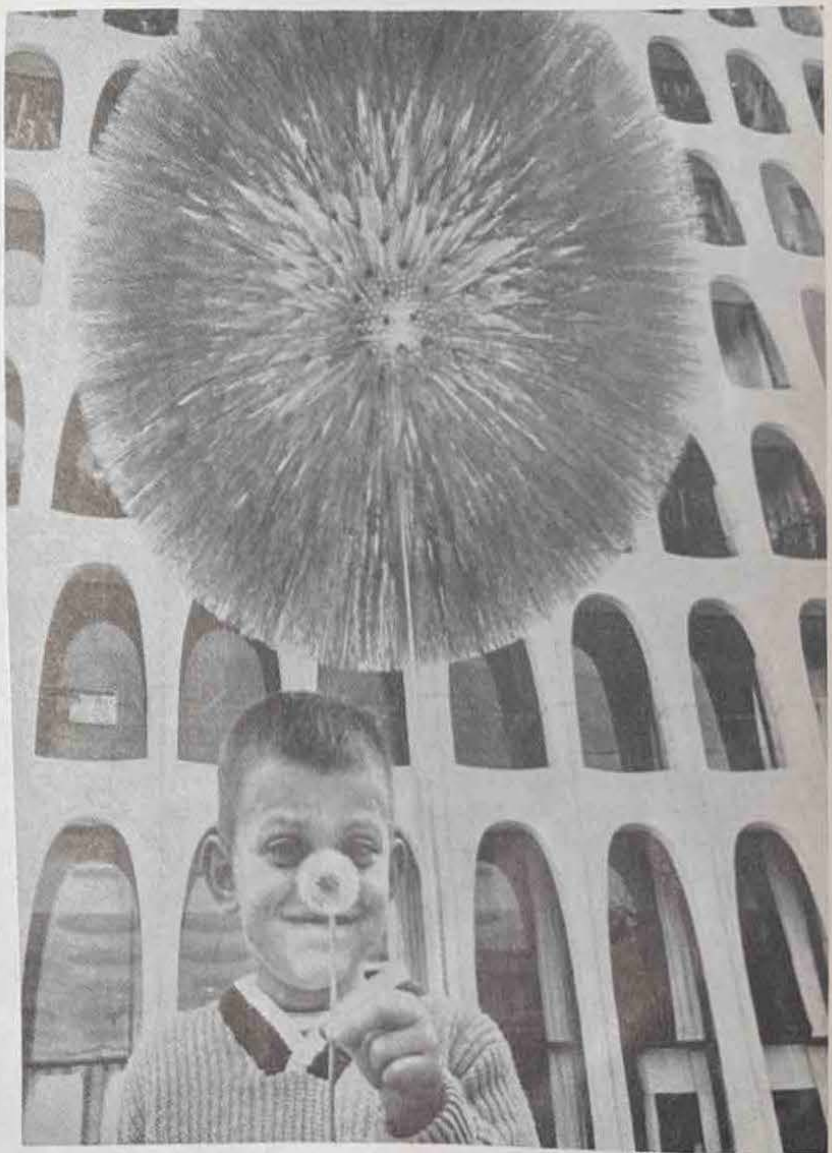
In the heart of Beverly Hills, outside Edward Durell Stone's Perpetual Savings & Loan Building, stands an improbable golden "blow-ball" dandelion—10 feet in diameter and 20 feet high—shimmering towards the sky from a 28-foot lighted lagoon.

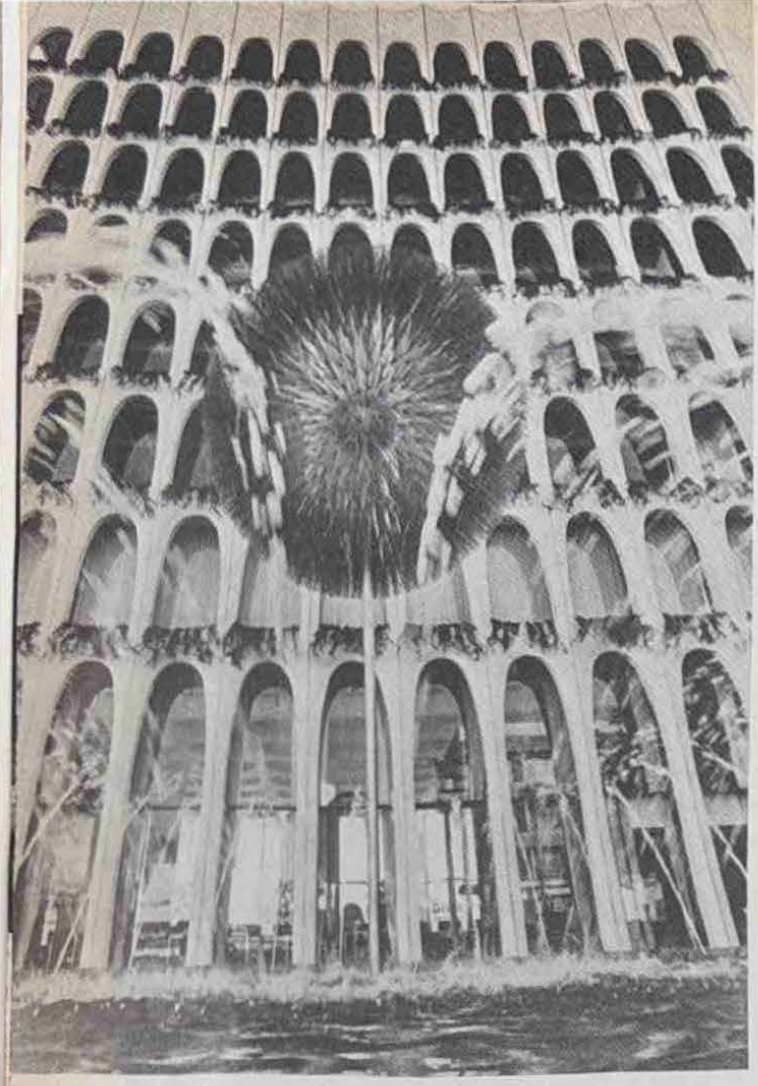
This is the work of Sculptor Harry Bertoia, blossoming as a magnificent testimonial to man's imagination, ingenuity, patience and desire to rival Mother Nature.

When a good breeze blows, the brilliant fine-gauge wire filaments sway back and forth as though any minute a handful of seeds might be launched into the wind to spawn countless beds of huge golden flowers all over town.

Such is the majesty and realism of this creation made of 84,000 parts, all securely welded and bolted together.

Bertoia and his assistant, James Flanagan, spent five months in tedious hand labor, welding, brazing and forming cold metal into warm, lifelike shape. They built the flower in their Pennsylvania studio, crated the parts





Dazzling Dandelion

for shipment and reassembled them in Beverly Hills.

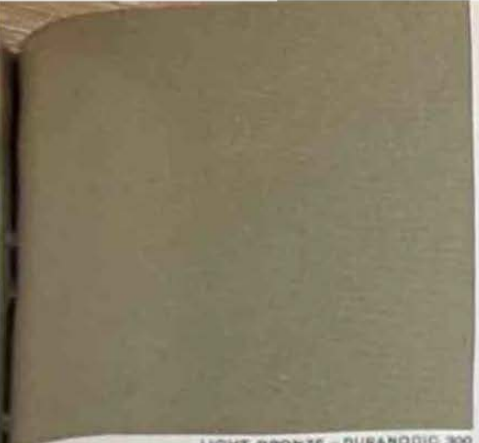
The central sphere is made of stainless steel, 17 inches in diameter, covered with cork for cushioning and with 1,075 hexagonal nuts affixed perpendicular to the center and touching on all sides.

Holes were punched through the nuts, the cork and the steel sphere, and silver alloy was poured over the entire ball, bringing the sphere to a weight of 140 pounds.

Next, the 1,075 brush-like projections which were to screw into the nuts and radiate out from the sphere were made of two-foot long stainless steel rods welded to the end of six-inch bolts. Around each rod was brazed a bundle of 75 nineteen-inch stainless steel wires —a total of 80,625 wires attached one by one. All parts were then nickel-plated as an undercoat and bathed in an electrolyte to emerge dazzlingly beautiful in an adornment of 24-karat gold.

Carefully packaged, the dandelion migrated to its permanent home where it was assembled in two days. A stainless steel pole was sunk into the ground as a stem, the central sphere was mounted to the stem. Then, working from a scaffold, Bertoia and Flanagan screwed the shimmering branches into the sphere.

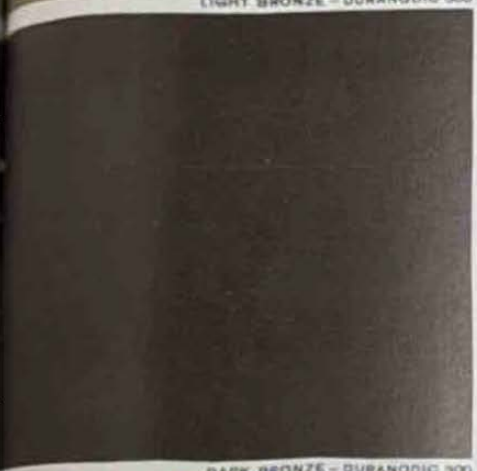
Half a ton of light, fluffy flower to brighten man's day, and one dandelion that need never be picked.



LIGHT BRONZE – DURANODIC 300

NATURAL ALUMILITE 215

MEDIUM BRONZE – DURANODIC 300



DARK BRONZE – DURANODIC 300

BLACK – DURANODIC 300

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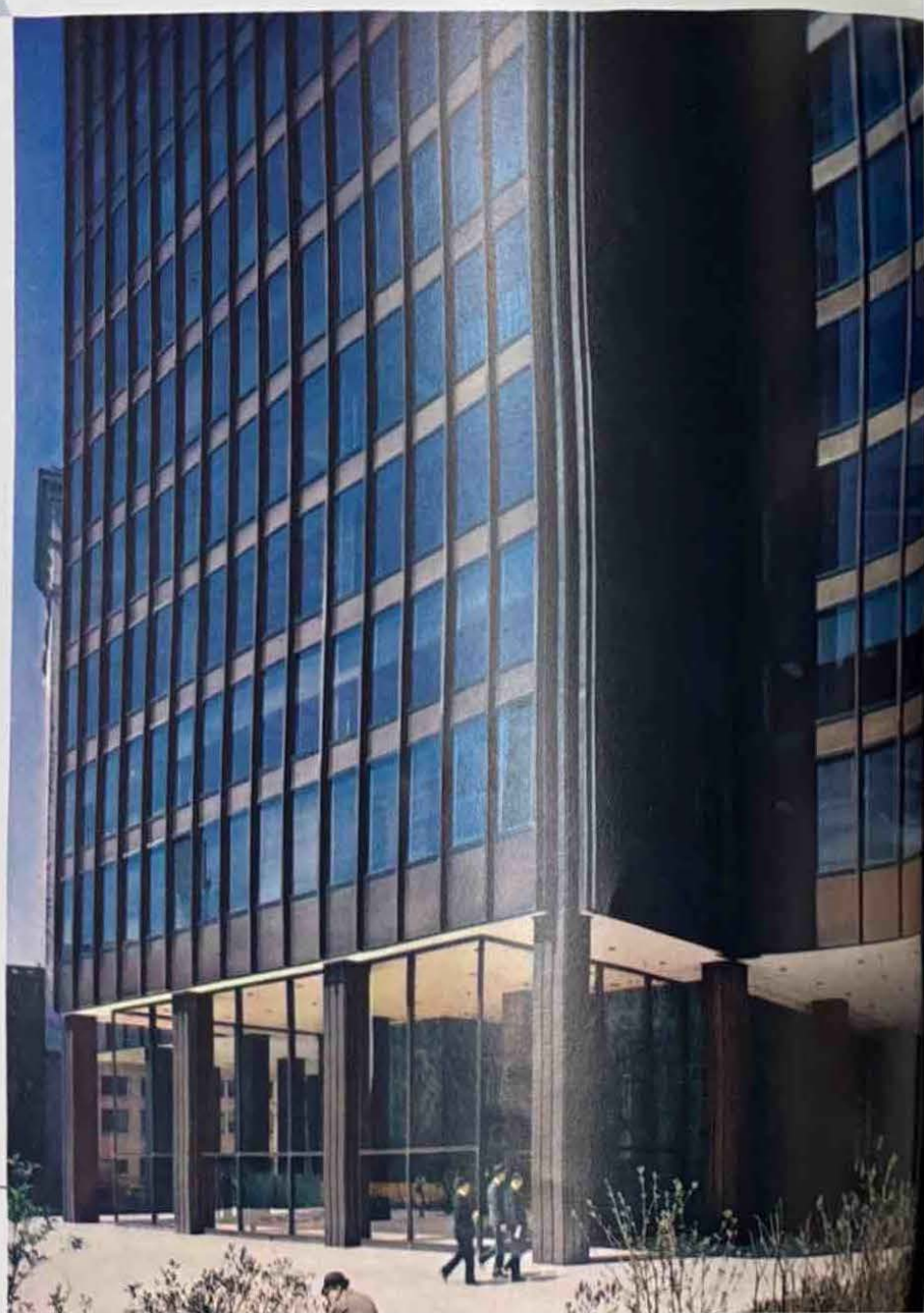
HARDCOAT FINISHES WITH PERMANENT
SUNFAST COLORS TO SPARK NEW LIFE,
ADD NEW BEAUTY TO BUILDINGS



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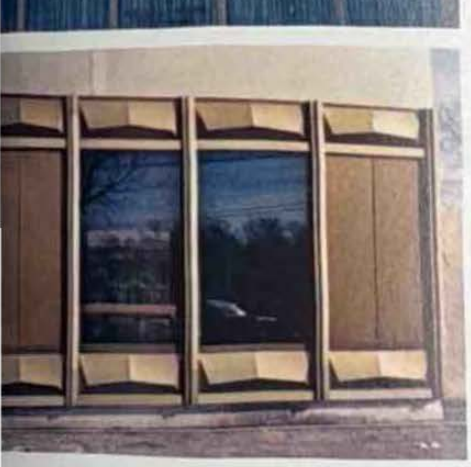
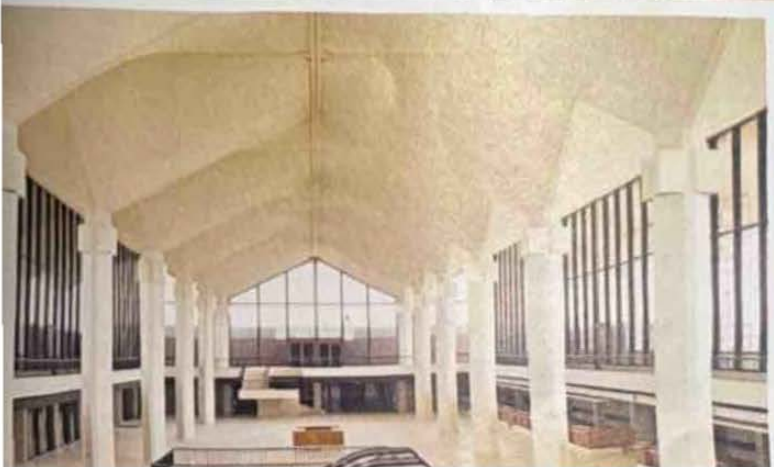
DURANODIC 300 is for architects interested in new ways to add colorful design to new buildings. It not only provides a hard, abrasion resistant finish for aluminum sheet and extrusions but it offers a choice of permanent, sunfast anodic colors that can stimulate the imagination of any architectural designer.

DURANODIC 300 colors are an integral part of the aluminum alloy—not a dye or surface applied color. They are available in four basic colors—black, dark, medium and light bronze. Color control is dependable and consistent within normal tolerance ranges.

DURANODIC 300 was developed by ALCOA research and has been proved practical in many installations by Cupples. It is ideal for exterior architectural metal work, curtain wall panels, spandrels, entrance doors and windows. And most important, these finishes are readily available and cost but little more than "Alumilite 215."

As you design and plan new buildings give careful consideration to the many interesting and colorful design possibilities that are now available, thanks to DURANODIC 300. Our staff of consultants is anxious and ready to be of assistance to you. For further information on DURANODIC 300, including complete specifications, and a list of nearby jobs, write or wire us today. Please address your request to Dept. 631, Cupples Products Corp., 2560 So. Hanley Rd., St. Louis 44, Mo.





Left Hand Page:

One Charles Center Building, Baltimore, Md. DURANODIC 300, medium bronze, curtain wall, mullions, spandrel panels and architectural metalwork. Ludwig Mies van der Rohe, Architect.

This Page:

Top Left: 730 Broad Street Office Bldg., Newark, N. J. DURANODIC 300, light bronze windows and spandrel panels with contrasting Alumilite mullions. Horace Ginsbern, Architect.

Center Left: Sectional mock-up for Mansion House Apts., St. Louis, Mo. DURANODIC 300, medium bronze panels and spandrels with contrasting light bronze mullions. Schwarz & Van Hoefen, Architects.

Lower Left: Memphis Airport, Memphis, Tenn. DURANODIC 300, dark bronze window and door frames. Mann & Harrover, Architects.

Lower Right: 757 Third Ave. Office Bldg., New York, N. Y. DURANODIC 300, light bronze spandrel panels and windows with contrasting medium bronze mullions. Emery Roth & Sons, Architects.

Top Right: Hollywood Towers Apts., Chicago, Ill. DURANODIC 300, light bronze windows, mullions and entrance doors. Solomon, Cordwell & Associates, Architects.

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DARK BRONZE – DURANODIC 300

The colors shown above represent DURANODIC 300 finishes as accurately as the printing method used permits. Cupples sales representatives will be glad to show you actual color samples.

Section of DURANODIC facilities at St. Louis plant. These large 34 ft. long x 12 ft. deep tanks can handle largest size units. Nine additional new tanks and equipment are now being installed. These will more than double present capacity and assure uninterrupted delivery service.

Section of Corona, California plant showing latest type DURANODIC equipment with large capacity tanks for handling any size job. Precision controls enable Cupples to guarantee coating thickness and close color control of all finishes.

Visit one of these DURANODIC 300 jobs by Cupples near you and see how this colorful hardcoat finish enhances the beauty of any building.

ALABAMA, HUNTSVILLE, Huntsville Hospital
Architects: E. Todd Wheeler; Perkins & Will

ARKANSAS, LITTLE ROCK, Doctors Building
Architects: Erhart, Eichenbaum, Rauch & Blass

CALIFORNIA, LOS ANGELES, Airport
Architects: Welton Becket & Assoc.
LOS ANGELES, Gateway West, Century City
Architects: Welton Becket & Assoc.

COLORADO, DENVER, Univ. Colorado, Med. Center
Architects: Schmidt, Garden & Erikson

CONNECTICUT, HARTFORD, 100 Constitution Plaza
Architects: Emery Roth & Son; Chas. Dubose

FLORIDA, JACKSONVILLE, Barnett National Bank
Architects: Kemp, Bunch & Jackson

GEORGIA, EAST POINT, South Fulton Hospital
Architects: Abreu & Robeson

ILLINOIS, CHICAGO, Lakeview Apartments
Architect: Mies Van der Rohe
CHICAGO, Carl Sandburg Center
Architects: Solomon, Cordwell & Assoc.

IOWA, DES MOINES, Home Federal Savings & Loan
Architect: Mies Van der Rohe

KENTUCKY, LOUISVILLE, Presbyterian Theo. Seminary
Architects: Hartstein, Louis & Henry

MARYLAND, BALTIMORE, Johns Hopkins Library
Architect: Standly James Goldstein

MASSACHUSETTS, CAMBRIDGE, M.I.T.—Women's Dorm
Architects: Anderson, Beckwith & Haible

MICHIGAN, SOUTHFIELD, Maccabees Mutual Ins. Co.
Architects: Harley, Ellington, Cowin & Stirton, Inc.

MINNESOTA, ADRIAN, Adrian School
Architects: Harrstick, Lundren & Assoc.
DULUTH, Cathedral High School
Architect: Arthur C. Lucas, Sr.
MINNEAPOLIS, Hennepin T. B. Building
Architects: Shifflet, Hutchison & Dickey

MISSISSIPPI, STARKVILLE, Mississippi St.—Union Bldg.
Architects: Thomas H. Johnson Sr. & Assoc.

MISSOURI, PEVELY, Benedictine Monastery
Architects: Drake-O'Meara Assoc.
ST. LOUIS, Milton Oil Co. Bldg.
Architect: Jerome Peters

NEW JERSEY, PRINCETON, Princeton U. Arch. Bldg.
Architects: Fisher-Nes-Campbell

NEW MEXICO, SANTA FE, U. S. Post Office
Architects: W. C. Kruger & Assoc.

NEW YORK, ALBANY, Alt. Seat of Gov't Bldg. #22
Architects: Praeger, Kavanagh & Waterbury
BUFFALO, Western Savings Bank
Architects: Duane Lyman & Assoc.
GLENMONT, Our Lady Of Angels Seminary
Architects: Urbahn, Brayton & Burrows
NEW YORK, 90 Park Avenue Bldg.
Architects: Emery Roth & Sons
NEW YORK, U.N. Church Peace Center
Architect: William Lescaze
ROCHESTER, Dormitory G—Univ. of Rochester
Architects: Waasdorp, Northrup & Kaelber

OHIO, CINCINNATI, Univ. of Cincinnati
Architects: Potter, Tyler, Martin & Roth; Garber, Tweddel, Wheeler
CLEVELAND, Veterans Hospital
Architects: Dalton-Dalton Assoc.; Smith, Hinchman & Grylls Assoc.

OKLAHOMA, OKLAHOMA CITY, Oklahoma Pub. Co.
Architects: Sorey, Hill & Sorey

OREGON, PORTLAND, Standard Insurance Bldg.
Architects: Skidmore, Owings & Merrill

PENNSYLVANIA, PHILADELPHIA, Wash. Sq. East Apts.
Architects: I. M. Pei & Assoc.
PITTSBURGH, Washington Plaza Apts.
Architects: Deeter & Ritchey; I. M. Pei & Assoc.

SOUTH DAKOTA, MOUND CITY, Courthouse Building
Architect: Walter J. Dixon

TENNESSEE, MEMPHIS, Airport Terminal
Architects: Mann & Harrover

TEXAS, DALLAS, L.T.V. Tower
Architects: Harwood K. Smith & Partners
HOUSTON, Southwest Tower
Architect: Kenneth E. Bentsen

WISCONSIN, MADISON, First Federal Savings
Architects: Graven, Kenney & Iverson

WASHINGTON, D. C., Madison Town House Hotel
Architects: Emery Roth & Sons

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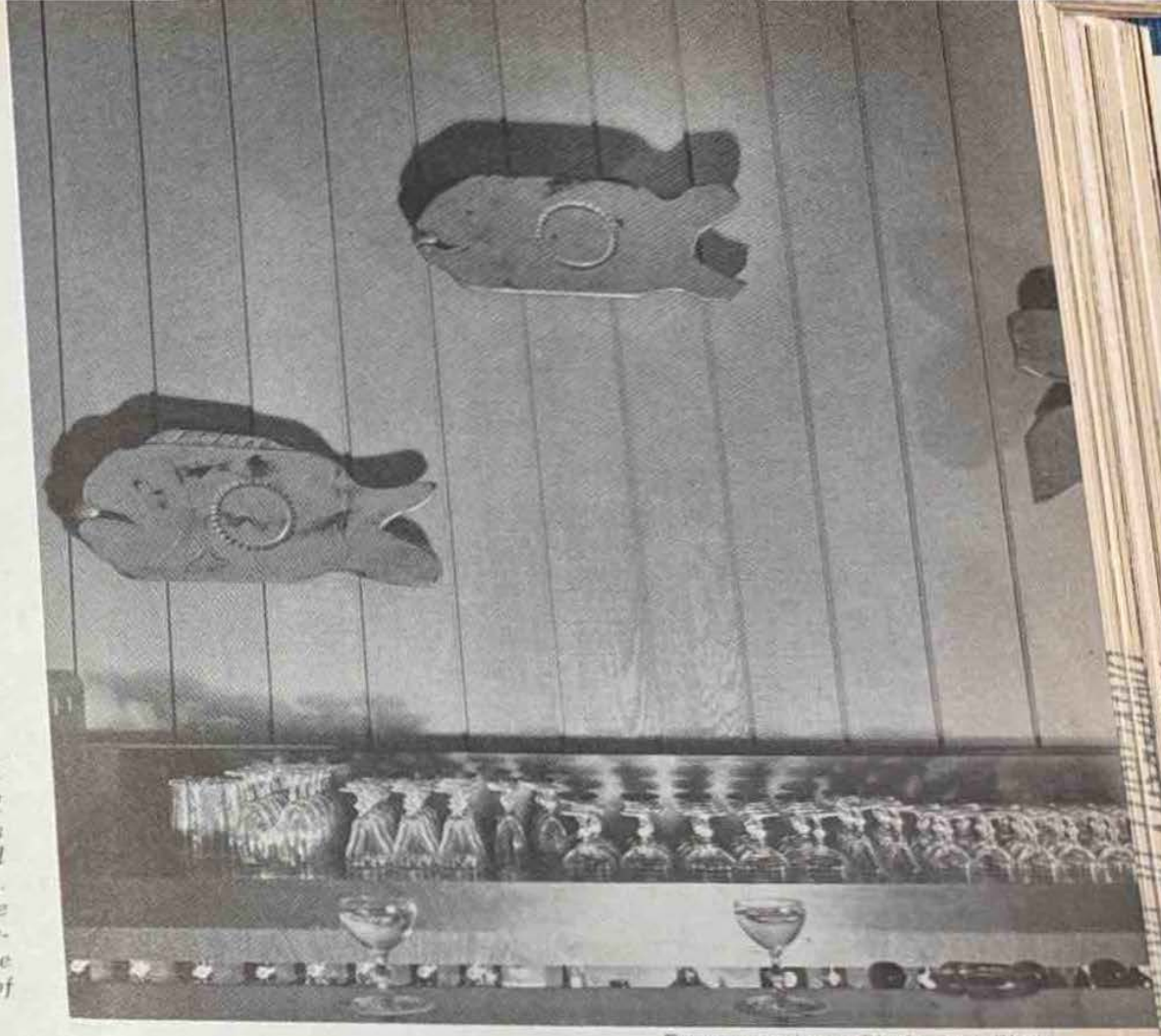
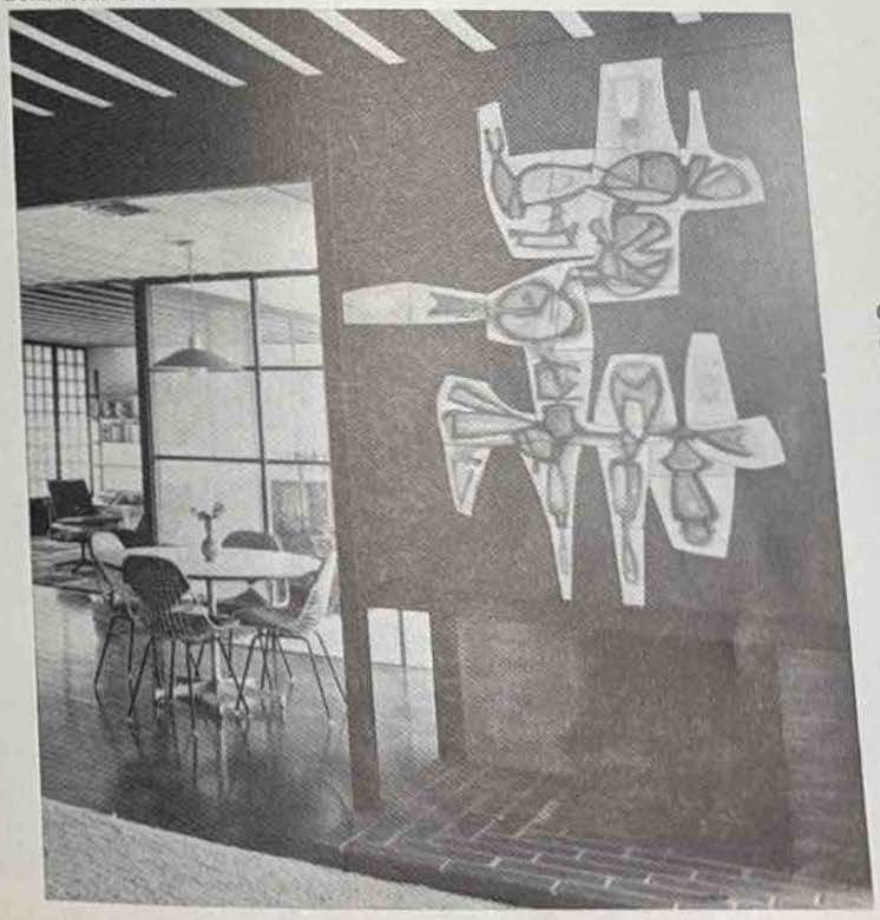


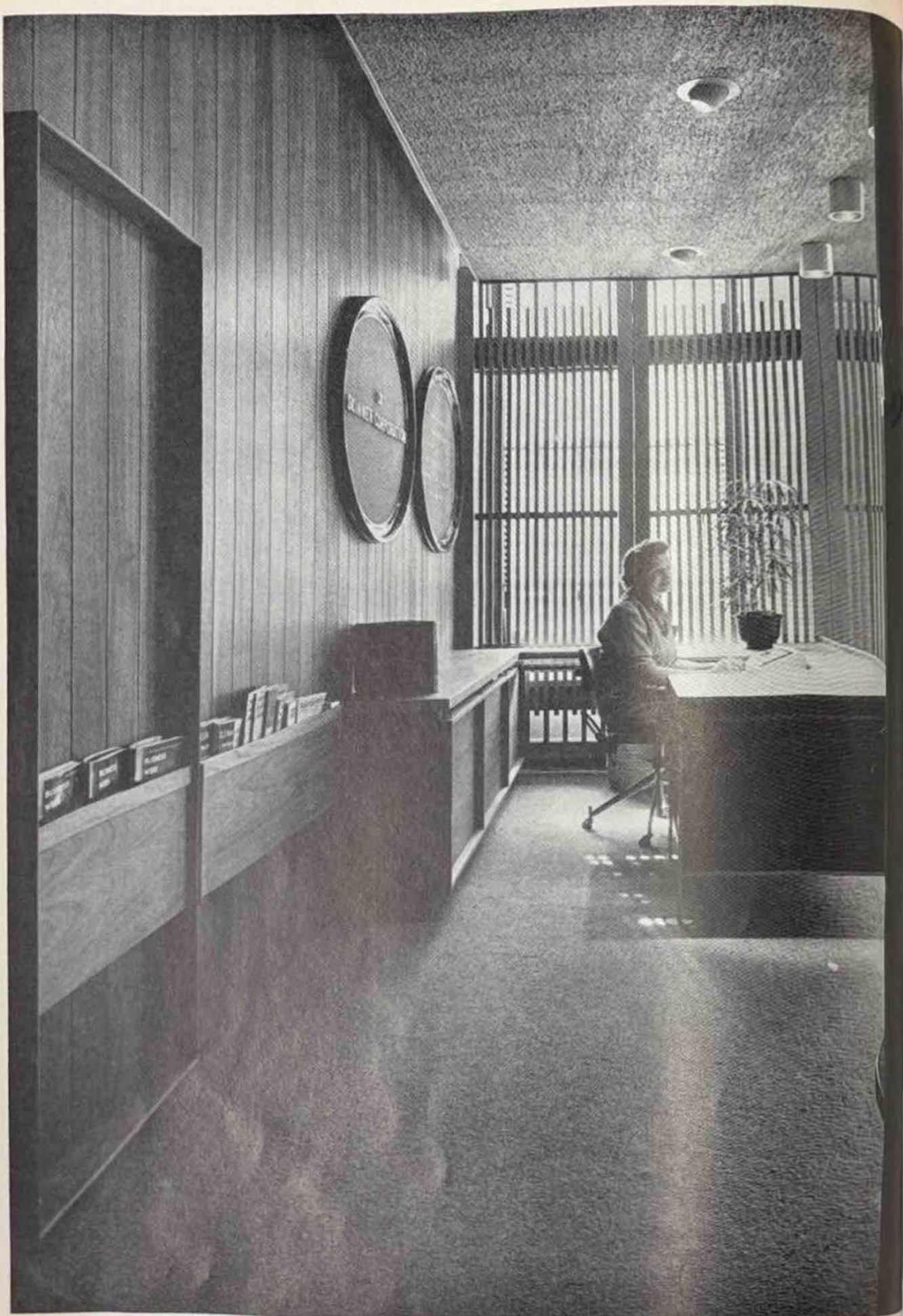
GROTESQUE *sculptured wood fish swimming on the wood paneling of the backbar form an art so free and plain that it is almost fascinating in its simplicity. The remodeled The Dock restaurant (Mario Gaidano, architect) at Tiburon, near San Francisco, was done in heavy timbers and columns, double wood rafters, floors of 2x6 planks solid on edge, redwood wall finish inside and out. So what else but Japanese carved wooden fish, carefully lighted, to dramatize the waterfront nature of the restaurant?*

Eugene Anthony Black Star Photo

Bethlehem Photo



CERAMIC ABSTRACT *on a bronze paneled fireplace is focal point in living room of steel framed home by Architect Neil Johnson in Yorba Linda, California. Treatment is rich with texture changes and contrasts. Ceiling is dark cork between frosty white steel frames of the decking. Interior glazings and solar screens in the non-load bearing walls and partitions create spaciousness of endless visual transitions. The fired-ceramic abstract (a pair of Thunderbirds?) continues the boldness of the structure into the finish treatment.*



Quality Materials Dominate Conservative Redesign

SKINNER CORP. OFFICE, Seattle • Douglas Bennett, Designer

TRANSLATING the outdated public interiors into a fresh, contemporary statement without extensive structural remodelling was the challenge of this job.

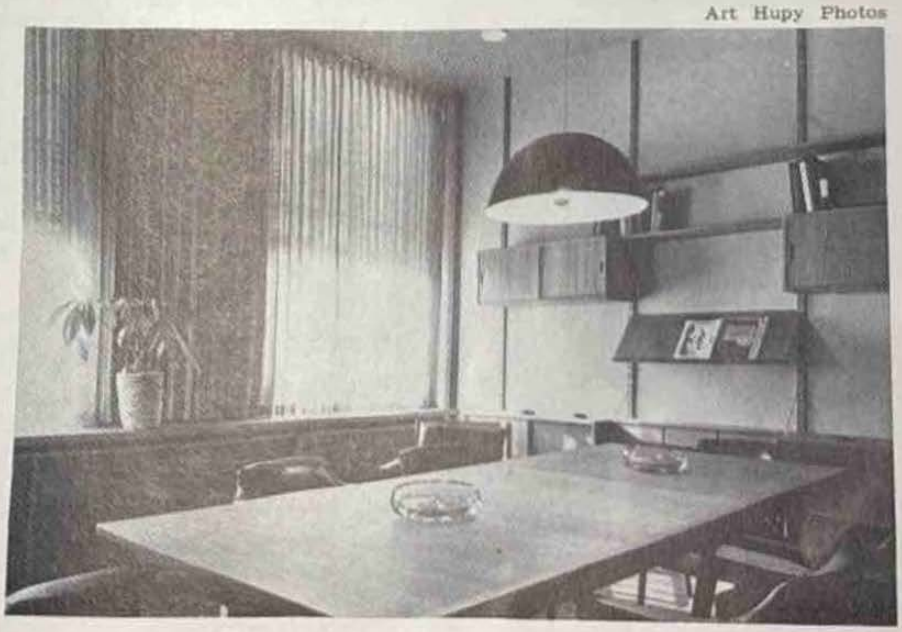
The spirit of the redesign was established by the nature of the firm. The mood throughout is one of quiet conservatism dominated by quality materials handled with restraint and careful detailing.

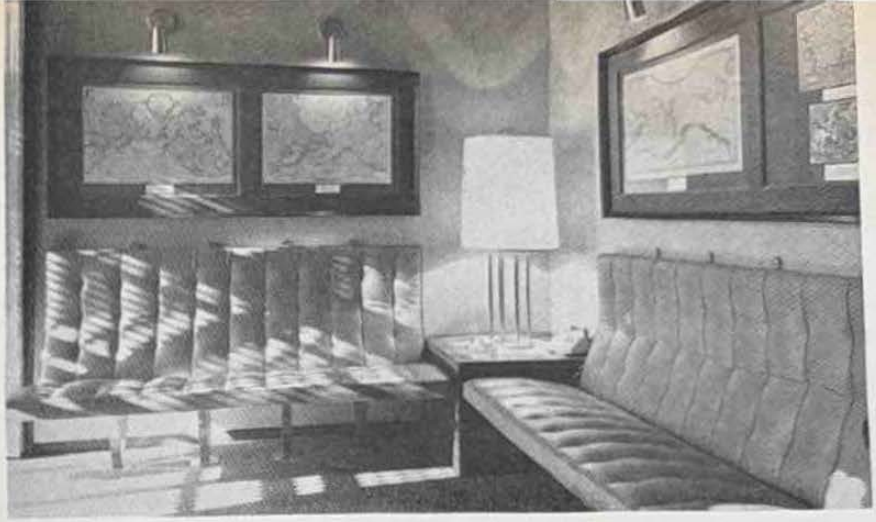
Hallways converging from stairways and elevators are floored with solid-white vinyl. These floors require slightly more maintenance than the previous brown cork, but not only do they enlarge the entrance area visually, they also set the predominant mood of the design concept.

The entrance area was further updated by screening conventional windows with cedar-louvered panels removable for window-cleaning, replacing old ceiling lights with large-scale white hanging fixtures and framing the entrance to the reception-lounge with glass set in teak.

In the reception area itself, natural materials dominate from the leather of the lounges to the teak of the exceptionally large desk, custom-designed to house the multitudinous duties of the receptionist-secretary. Use of draperies was virtually eliminated by the louvered screens set across the existing windows. Carpeting is soft gray, flecked with yellow-ochre. Controlled accents of color are provided by the velvet mats used to frame the oval corporation logos and the antique mariners' charts on the walls. These are marine blue, red and faun.

Art Hupy Photos





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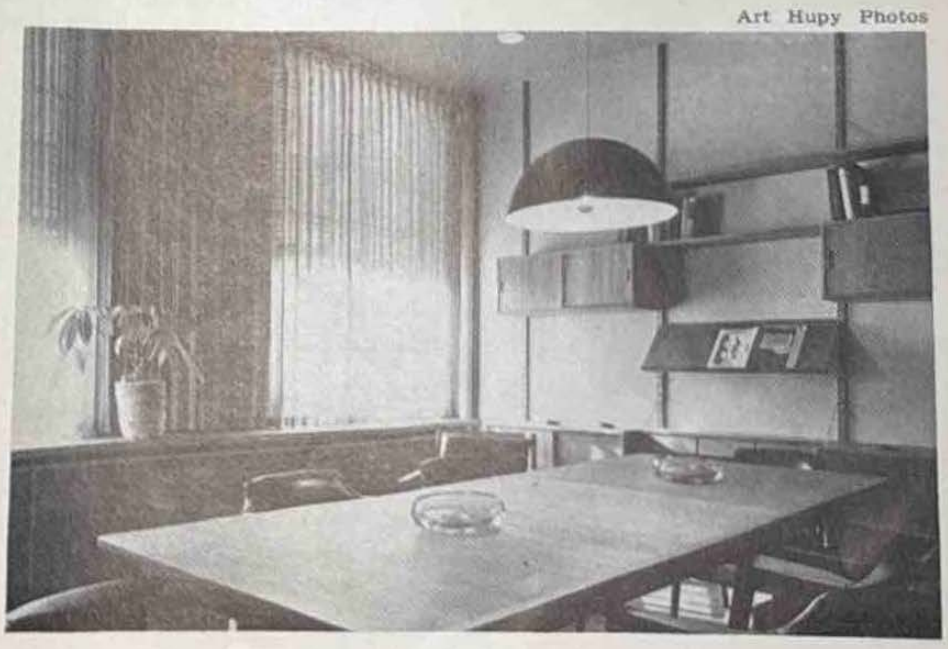
The spirit of the redesign was established by the nature of the firm. The mood throughout is one of quiet conservatism dominated by quality materials handled with restraint and careful detailing.

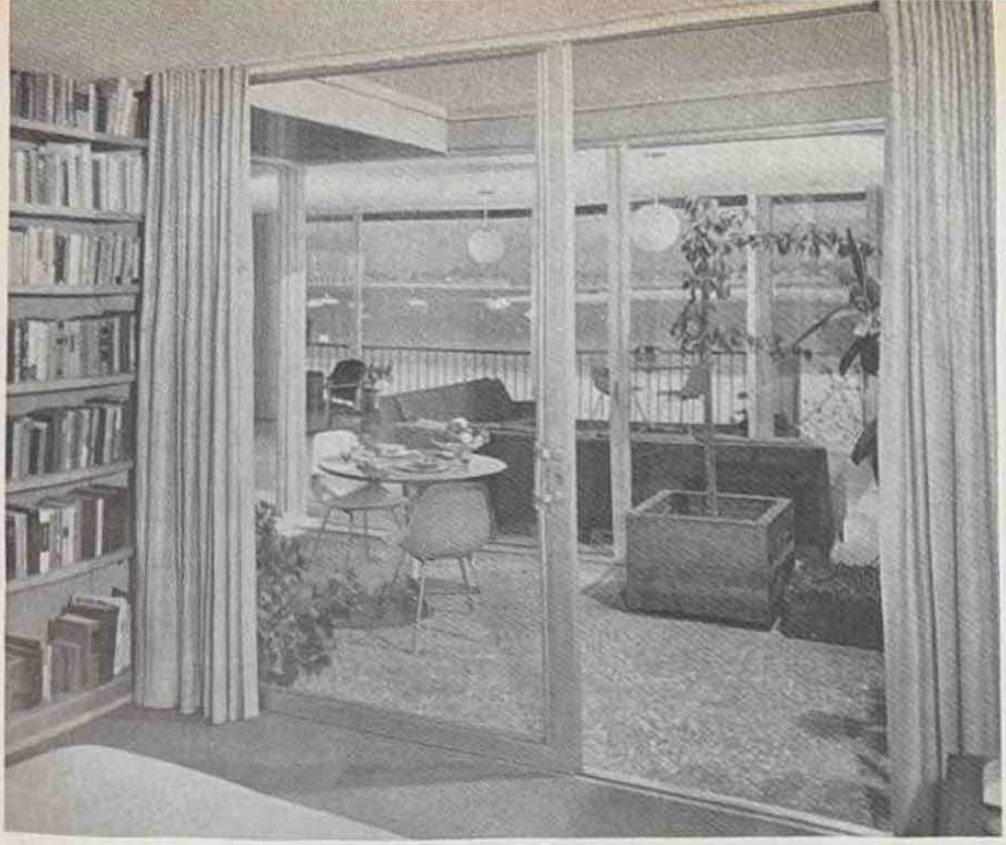
Hallways converging from stairways and elevators are floored with solid-white vinyl. These floors require slightly more maintenance than the previous brown cork, but not only do they enlarge the entrance area visually, they also set the predominant mood of the design concept.

The entrance area was further updated by screening conventional windows with cedar-louvered panels removable for window-cleaning, replacing old ceiling lights with large-scale white hanging fixtures and framing the entrance to the reception-lounge with glass set in teak.

In the reception area itself, natural materials dominate from the leather of the lounges to the teak of the exceptionally large desk, custom-designed to house the multitudinous duties of the receptionist-secretary. Use of draperies was virtually eliminated by the louvered screens set across the existing windows. Carpeting is soft gray, flecked with yellow-ochre. Controlled accents of color are provided by the velvet mats used to frame the oval corporation logos and the antique mariners' charts on the walls. These are marine blue, red and faun.

Art Hupy Photos





Imaginative complexity in an "L" around a garden cour

THE "GARDEN APARTMENT" in cramped quarters of our bi cities can be so dreary that this example of colorful spaciou ness and charm both in materials and in furnishings is as re freshing as the breezes from the ocean it faces.

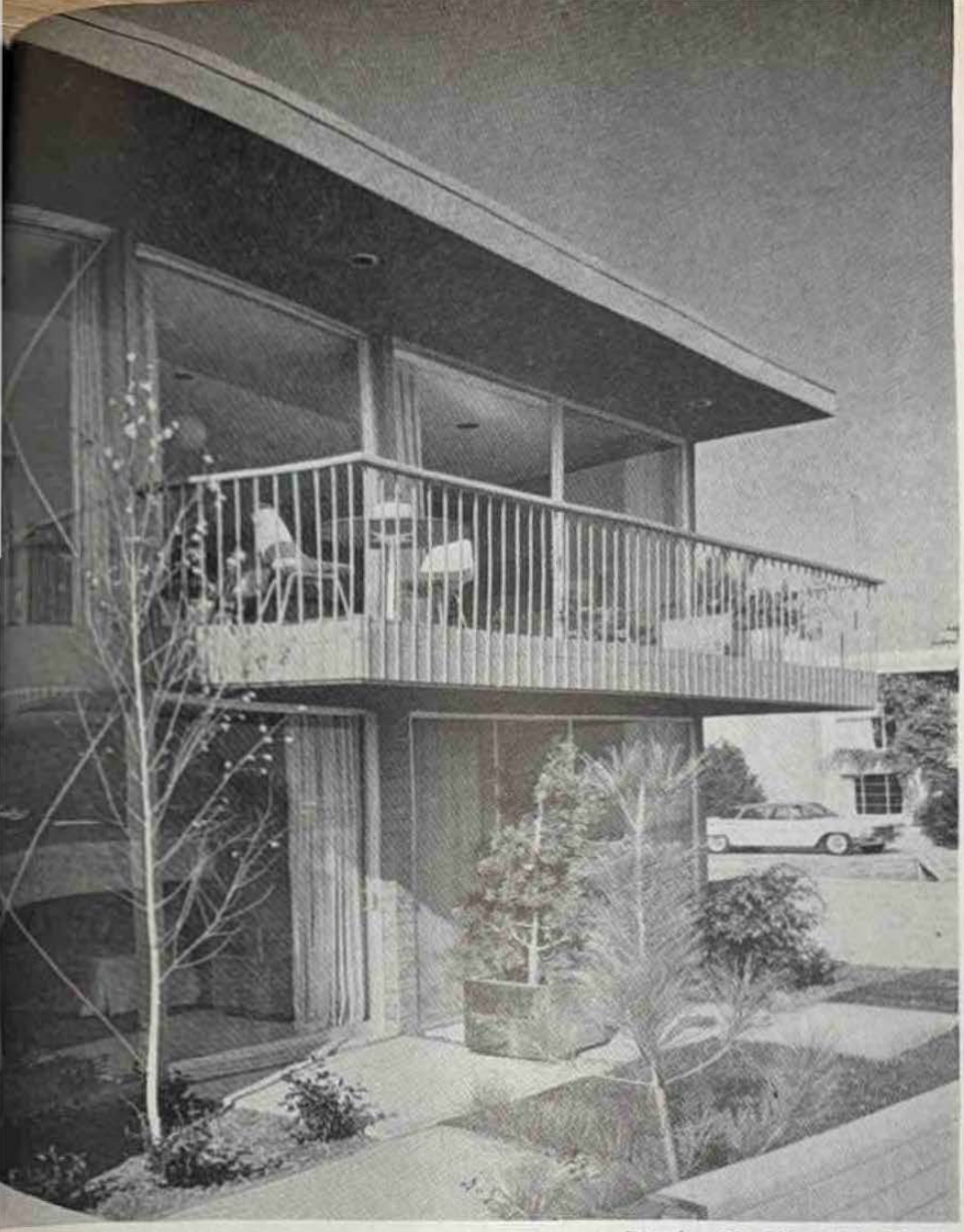
The scheme evolved around the creation of a maximu of spaciousness while assuring a suitable amount of richnes and charm. Intimacy and complexity were achieved by divid ing a single "L" into dining, sitting and music areas.

Attention to materials in ceilings, floors and walls mad possible a good range in the selection of furnishings. Colo was given as much importance as the structure, in planning

Ceilings are satin white simulated acoustic plaster. San float plaster walls are painted in W. P. Fuller "Bleached Wood". Paneled walls, cabinets and doors are Rex "Clay" o rotary cut mahogany. Vinyl cork tile flooring is predomin antly Armstrong "Platinum" bleached cork, although there ar areas of beach stone aggregate in concrete, with 2x4 redwoo dividers. The deck is Douglas fir finished with Woodlife.

Two large sofas of extremely simple design but strong in dark grass green felt, are grouped around the fireplace and to take advantage of the view. Between the sofas is a handsome shag rug in shades of deep green with accents o yellow and red, woven in Holland. In the music area is a circular rug in yellow, woven of goats' hair from the plains o Anatola.

The master bedroom is in deep shades of umber to se it apart as a relaxing atmosphere. Guest bedroom uses ac cents of Persian blue against the lighter umber shades. An for all the rooms, through the glazed panels and sliding glas doors, is the backdrop of the Pacific blues.



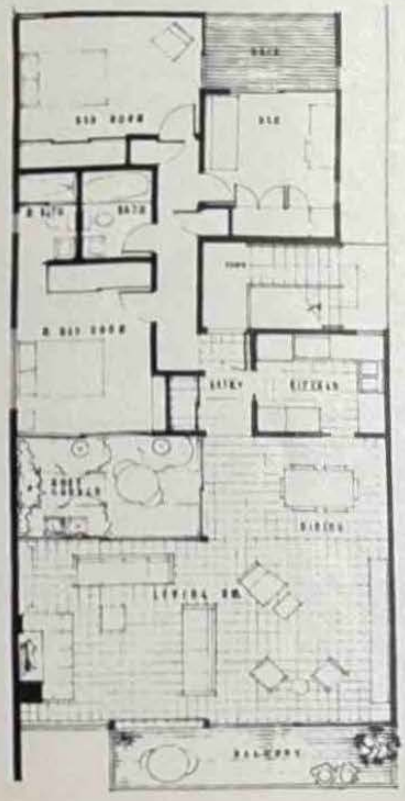
Douglas M. Simmonds Photos

GARDEN APARTMENTS
John W. Porter
San Diego, California

Homer Delawie
Architect

Ivan Bramlett
General Contractor

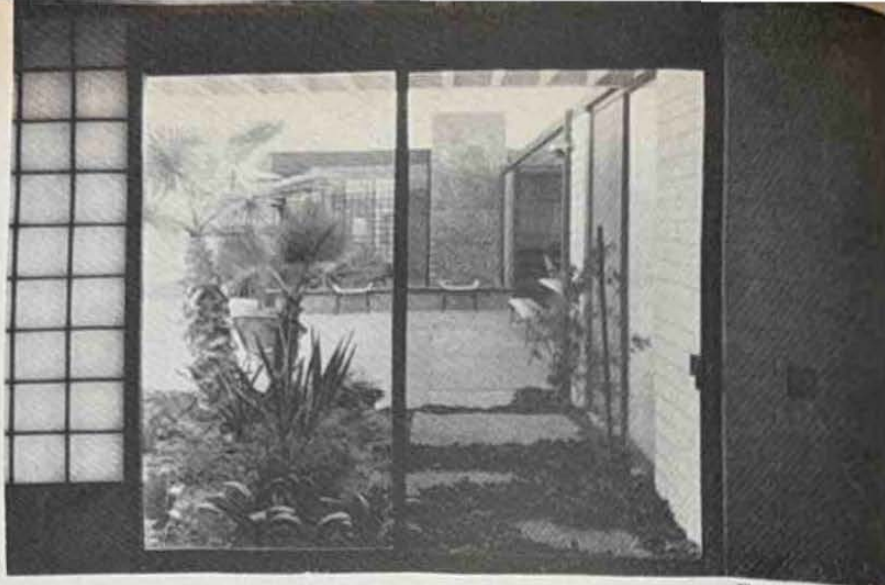
Ilse Ruocco
Decorator



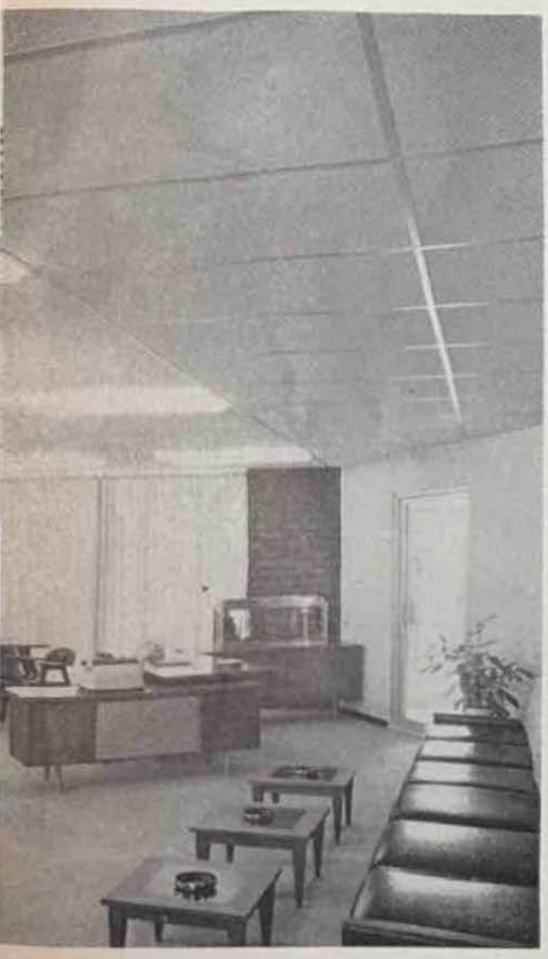
Interiors . . .

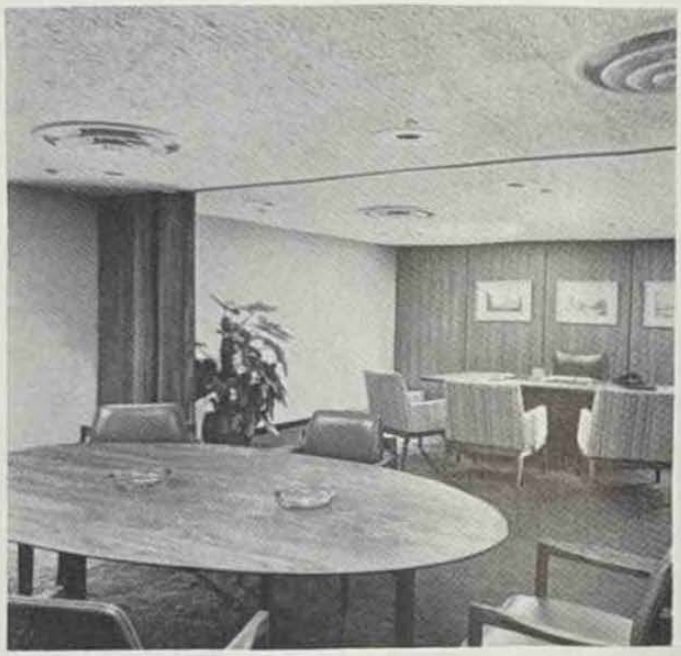
. . . and an exterior that is brought inside in a neat job of detailing (right): Steel frame carries loads in this home in Yorba Linda, California, permitting Architect Neil Johnson to integrate landscaping with bedroom through expanse of glass.

Immediately below is an air-conditioning acoustical ceiling in the Lowe Enterprises Office Building, Studio City, Calif. Armstrong Cork developed the system in which air is discharged



Bethlehem Photo





into a plenum above the tile, with just enough pressure created to force air down through perforations. There are no air ducts or diffusers to relocate if office layouts are changed.

Again in the pictures at right, and right, above, textured ceiling tile lend much to the quiet dignity of offices and waiting rooms in the $16 million United California Bank building in Beverly Hills. More than 400,000 square feet of Simpson acoustical tile absorb up to 70% of office noises. Ceilings are suspended on a concealed system, are particularly successful in carpeted and paneled areas shown.

Precise design work made possible with strength-rated lumber

Computer (above) averages strength measurement taken every six inches of length of each piece of lumber passing through the machine (center of page). Obsolete "failure" method shown below.

A NEW STRUCTURAL LUMBER with engineering data assigned each piece will allow architects to do much more precise design work with complete confidence in each piece of wood. This "engineered" lumber is being produced by Potlatch Forests, Inc., Lewiston, Idaho.

It is EMSR lumber—electro-mechanically stress-rated structural lumber with its stiffness and strength so thoroughly measured that an entire electronic computor system must be used. This allows the accurate strength rating to be marked on each piece as it is tested.

The Continuous Lumber Tester (CLT-1), developed by Industrial Sciences, Portland, in cooperation with Potlatch, accurately identifies lumber grades by strength rather than by appearance or species.

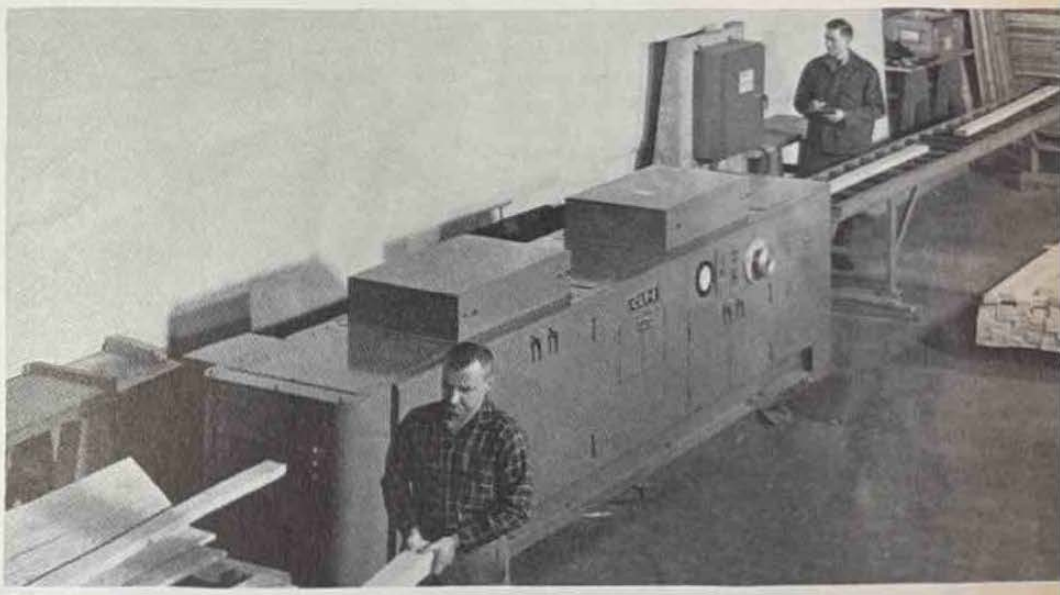
Already more than a half-million board feet of the specially-rated structural lumber has been shipped to limited markets in the West. A great deal more is expected as the Potlatch mill swings into heavier production and other Northwest lumber companies begin using the system.

The benefits to architects are multiple. Visually graded lumber carries a substantial margin for "visual error." Computer analyzed lumber may reduce the board feet used, and the cost, by as much as 40%. Buildings can be lower . . . lower floor and ceiling joists, narrower roof rafters. Improved reliability and fewer grades will simplify design procedures. A one-page span rating table will replace the present 40-page book.

In this new system, termed E-rating, each piece of lumber is accurately pretested to determine its individual structural capabilities. Under Western Pine Association grading rules, electro-mechanical stress-rated lumber may be sorted into five grades based entirely on strength. Therefore, there are considerably fewer grades for architects to specify than lumber graded by systems using complete sets of spans for various dimension grades for each species.

Visual stress grading, standard throughout the nation's structural lumber industry today, is based upon appearance of each piece of lumber graded. Knots, their sizes and relationship with each other, slope-of-grain, and numerous other visual characteristics are considered.

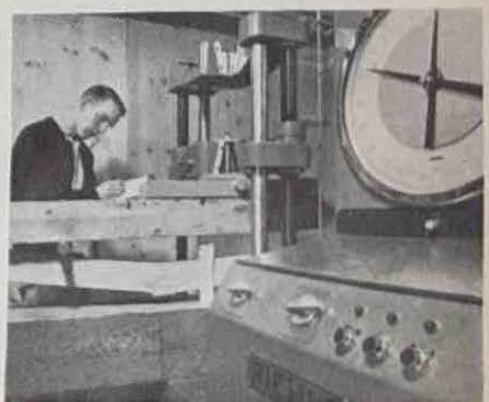
But heavy safety factors are assigned visual stress grades which penalize between 50% to 98% of all structural lumber. Some pieces tested showed they could do as much as ten times the work which they are allowed under current grades.



Most lumber species have not been stress-graded even visually in the past, and therefore, have not been used as engineered structural lumber. For example, inland white fir, is now assigned correct strengths by the EMSR method. This proves this strong, lightweight lumber is well suited for structural uses.

Electro-mechanical stress-rating is a completely automatic process. The testing, grading and stamping are done in one compact operation which automatically takes into account knots, density, grain slope, growth rate, moisture content and other important factors. The machine will grade up to 1000 lineal feet per minute and handle lumber 2-in. thick and 4, 6, 8, 10 and 12-in. wide. Lengths may run from 8 to 26 ft.

The f-value, as well as the E-rating, is shown on the stamp, since Potlatch has established, and many engineers now accept, the fact that modulus of elasticity (E) is closely related to fiber stress in bending (f).



APPLIED LIGHTING TREATMENT

California Tree Fruit Agreement Building, Sacramento

John Harvey Carter Architect

A "REFLECTED CEILING" CONCEPT developed to enhance a building treatment in which the ceiling is one of the focal points of design, has resulted in an unusually effective "applied lighting" technique.

One of the unusual features of the building design is the establishment of the roof on three levels. The roof also serves as ceiling, putting the ceiling on three levels, with exposed laminated wooden beams as a prominent part of the finish treatment.

No one could conceive a conventional lighting system that would do anything but destroy the effect desired by the architect.

Much study produced the idea of building the light source onto the beams, at once emphasizing the beams and using the ceiling and a side of each beam as reflectors.

The physical application was relatively simple. Tube fixtures are affixed longitudinally to the beams and/or to the ceiling deck adjacent to the beams. They are boxed in by lengths of extruded polystyrene daylight white plastic extending outward flush with the bottoms of the beams, and rectangularly upward to the ceiling—the plastic sheets supported by 1x2-inch redwood brackets.

With this concept approved, the problems then became those of providing the proper and comfortable levels of light, and proper light direction. There being no published performance data for this type of original system, it was necessary to select a plastic lens that would provide the required direction and then calculate the lamp lumens by experiment and mock-up.

The plastic selected to form the sides of the box is Cleartex, developed by Day-Brite Lighting, Inc. It has the property of directing the light rays and shielding the lamps for eye comfort. Lens characteristic of the plastic are visible in the installation and provide a pleasing pattern.

Three widths were used: 9-5/8 in., 10-7/16 in. and 21-3/4 in. All of these were extruded in lengths of four, six and eight feet.

The bottom sheets of plastic lie loose on the redwood brackets and may simply be tilted aside for the installation of lamps.

Lamps range from 24-in. t. trigger start, to 96-in. 800-milliamp, selected in size and number for the various locations to provide desired footcandles.

For instance, a conference room was designed for 30 fc, and achieved 32 with reasonable uniformity. In the main office, readings range from 96 to 106 fc. The general manager's office shows 95, the workroom 100. One private office was dropped to a low level of 65 to please its occupant.

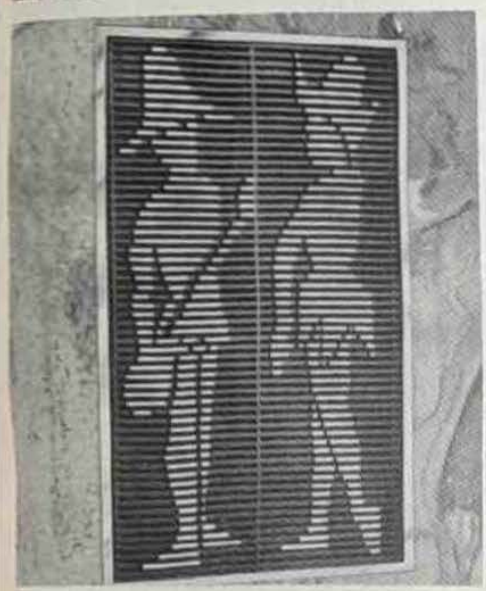
The IBM room required additional mounted surface fixtures to achieve 165 fc. Foot lambert readings were taken in the main office with the observer standing eight feet from the west wall and reading the brightness of the fixture at the top of the west wall. He then measured the brightness of the wall approximately two feet below the fixture to determine a ratio of 1,300 fl. to 734 fl. Seated at a desk he measured the brightness of the source and of the desk top. This ratio was 765 to 485. Ratios are considered to conform with I.E.S. standards.

In judging the achievement, a viewer at the entryway finds illumination on three levels heightening the interest of the roof and ceiling construction, and providing an overall lighting arrangement that seems adequate for the tasks and comfortable at every point in the room. There are no really heavy shadows anywhere in the room.

Electrical Engineer was W. A. Stains. Lester Van Nostrand was consultant from Day-Brite.

space-saving letter boxes

Designed to save up to 50 percent of the space usually required by letter boxes, the Slim-Master unit meets all U. S. postal specifications, with required masterdoor and dummy box. Each pigeonhole is 14½-in. deep with roundabout of one-inch birch. Fronts are of cast bronze, available in satin bronze or satin chrome finish. Slim-Master letter boxes are either key or dial operated. Each box may be keyed to tenants' door keys, if desired. Boxes may be furnished with rear-loading pigeonholes for use where mail room is provided. All units are custom built. Layouts, plans elevations and specifications are available. —Corbin Wood Products Div. (A/W), American Hardware Corp., New Britain, Conn.



designed to order

A new extruded aluminum air grille with louvers designed so that nearly any design, symbol or emblem can be reproduced on the face of the grille, is called Custom Staccato by the manufacturer. To get the staccato-design effect, the louvers are recessed at various intervals, with the intervals varied according to the design desired. Faces of the raised sections on each louver are in brushed satin aluminum finish as a contrast to the anodized dark finish of the rest of the louver. The Custom Staccato air grilles can be used as supply or return for heating, cooling and ventilating. They are available in two basic types, standard and fine-line, both furnished with several widths of extruded aluminum borders and custom-made.—Titus Manufacturing Corp. (A/W), Waterloo, Iowa.

bronze glass

Parallel-O-Bronze, a visual glass for window areas, and Rough Bronze Plate, for use where privacy is desirable without loss of light transmission, have a soft bronze tint to meet new architectural demands. The glasses combine glare and brightness reduction with heat absorbing advantages, the high reduction of solar heat transmission resulting in reduced air conditioning costs. Parallel-O-Bronze, designed in four thicknesses, is twin-ground, tank plate glass. Rough Bronze is translucent with good obscurity, surfaces having a slight configuration which produces a textured appearance. It is available in two thicknesses, either rough on both sides, or rough on one side only.—Libbey-Owens-Ford Glass Co. (A/W), 811 Madison Ave., Toledo 2, Ohio.

cylinder down lights

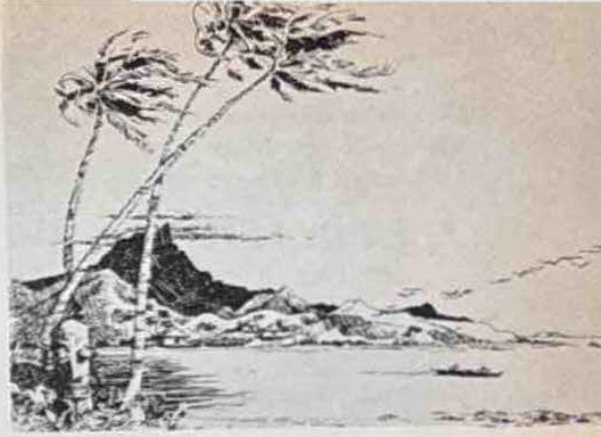
Three new all-aluminum cylinder down lights stress uncluttered lines for modern interiors or exteriors. The largest cylinder has an uplight and measures 6-in. in diameter by 18-in. high, extending 11-in. from wall, including canopy. A wide range of colors—matte white, brushed aluminum, oyster, chocolate brown, green, black or synthetic satin brass—is offered. Optional accessory louvers and decorative perforations are available.—Prescolite Mfg. Co. (A/W), 1251 Doolittle Dr., San Leandro, Cal.

lightweight insulation

A newly developed polystyrene insulation, Zero-Lite, is very light in weight, one pound per cubic foot, yet offers a thermal conductivity that is extremely low, 0.22 at 10 deg. F. Recommended for use in cold storage rooms for ceiling, wall and floor insulation, Zero-Lite may be applied to wood or concrete. It is available in a self-extinguishing form conforming to ASTM D-1692, and comes in 1 to 8 in. thicknesses.—Johns-Manville (A/W), Industrial Insulations Div., Box DOC-16, 22 E. 40th St., New York 16.

artists' originals

Interior doors for home or executive office that feature original designs and color schemes have been created by leading artists and designers. Doors are finished in enamel and designs are individually hand printed and painted on each door. A wide selection of decorator colors to harmonize with, or keynote, rooms of any decor is available.—SPLEN-DOR (A/W), 201 S. Pomona, Ave., Fullerton, Cal.



eye-catching murals

Combining the charm of hand-crafted scenes and design with the advantages of a washable finish, nine Marlite mural panels, suitable for bathtub recess installation or pictorial accent walls, are now available. Panels come in 5 ft. width and heights of 5 and 6 ft. The panels, processed in gold on a white background, are easily fitted, requiring no divisions on the bathtub installation. Matching white background panels for end tub recesses are provided. The baked plastic surface is resistant to heat, moisture, grease and stains, can be damp-wiped clean. Murals include South Pacific, Aquatic, Seascape, Desert, Fleur-de-Lis, Rangoon, Oriental, Catalina and Snowflake designs.—Marsh Wall Products, Inc. (A/W), Dover, Ohio.

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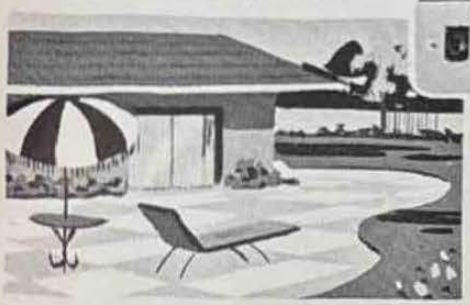

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LITERATURE

Structural Insulating Panels (AIA 19-D): information on details and uses of Carey Thermo-Bord with typical installations on roof decks, exterior walls, window walls, partitions. Construction features are listed and attention called to new color panels in factory applied finishes. Physical data is shown with thermo-wall construction details and drawings. Brochure 6564.—The Philip Carey Mfg. Company, 320 S. Wayne Ave., Cincinnati 15, Ohio.

Designer Patterns in Wood (AIA 19E-3): incorporated in an 8-pp., two-color brochure are 35 choices of designer elegance patterns in wood grille panels in both Old World and Contemporary motifs. A design technique of perspective scale drawings of 4x8-ft. panels is introduced. Included is a new series of "continuity of design" patterns without divider bars or footage breaks that can be installed vertically or horizontally. Larger panels on special order.—Sculpt-A-Grille, Inc., 7105 S. McKinley Ave., Los Angeles 1.

Lighting Sketchbook: purpose is to stimulate creative thinking through suggested design concepts for anyone interested in or involved with interior and exterior lighting plans. Designs in full color are shown with ideas easily translated into specific installations. Sketchbook No. 250, 12 pp.—NL Corporation, 14901 Broadway, Cleveland 37, Ohio.

Timblend, A Guide for Architects and Builders (AIA No. 19-F-1): describes the eight different types of Timblend, the engineered flake-type panel product. Sizes and specifications are listed and a wide range of building applications illustrated. A section is devoted to working with the product: finishing, fastening, joining. 16-pp.—Weyerhaeuser Company, Box B-191, Tacoma 1, Wash.

Washroom Advisory Service (AIA 29-J): designed to assist architects in planning new washrooms and remodeling old ones. Free assistance in design to provide efficient traffic flow, easy maintenance and modern equipment is offered. Case histories are shown with basic washroom designs for office buildings, service stations and plants. Form No. 2694, 16-pp.—Scott Paper Company, Philadelphia 13, Penn.

Solar Screen (AIA 35-P-2): offers information covering two types of solar screens, a method of determining the amount of screening needed in relation to latitude and orientation for specific buildings, and suggestions on specifying solar screens. Brochure contains illustrations of sample patterns, applications and specifications. 4-pp. —Morris Kurtzon, Inc., 1420 S. Talman Ave., Chicago 8.

Decor Steel Doors (AIA 16-A): displays new line of custom-styled standard honeycomb core steel doors prefinished with full-flush facings in choice of three wood grain vinyl laminates, six epoxy-based enamel colors or two stainless steel finishes. 12-pp., full color.—Ceco Steel Products Corp., 5601 W. 26th St., Chicago 50.

Caram-Miracle Roofing System (AIA 12-A): delineates advantages of new Kolorprene liquid neoprene and Hypalon® roofing with application specifications from deck level to vertical surfaces. Product especially designed as a decorative roof covering for unusual designs with emphasis on flexibility, colorability, fire resistance and mildew resistance, is said to be about 1/20th weight of built-up slag roof. Four-color brochure shows actual building applications, maintenance tips and complete specification chart.—Miracle Adhesives Corp., 250 Pettit Ave., Bellmore, Long Island, N.Y.

MANUFACTURERS/SUPPLIERS

• **Western Concrete Structures:** A prime contractor in the field of prestressed lift slab construction, the firm has opened a northern California office at 220 California Ave., Palo Alto. James Troxel, a graduate architect with over seven years experience in prestressed lift slab buildings, has been named general manager of the new office.

• **Norris-Thermador Corp.:** James L. Lewis has been promoted to the position of general sales manager, Thermador Division, according to H. J. Meany, vice president and general sales manager of the Los Angeles firm.

• **U. S. Plywood Corp.:** Alan O. Miller, former district manager of American Forest Products Industries, Seattle, has been appointed West Coast public relations director for U.S. Plywood Corp. at the company's West Coast manufacturing headquarters in Eugene.

• **The Ion Corp.:** The firm which manufactures the Ion chair, designed by Gideon Kramer, is planning to locate a manufacturing and assembly plant at Auburn, Wash. Ion will manufacture the metal frame for the chair and the fiberglass shell will be produced by Heath Tecna-Plastics, Inc. of Kent, Wash. Bruce McMichael is manager of the company which has been primarily a contract furniture firm specializing in public seating for restaurants, coliseums, arenas and lecture halls.

• **U.S. Steel Corp.:** Leonard L. Shaw has been named director of marketing and sales of the company's wire and wire products in the 13 western states, with offices in San Francisco. Charles S. Clark, Denver area sales representative, will take over Shaw's post of marketing and sales in the New Mexico area with headquarters in Albuquerque.

• **Pacific Car and Foundry Co.:** Appointment of Burton C. Jameson as assistant general manager of the Structural Steel Division is announced by Paul M. Jacobsen, general manager of the Seattle plant. Mr. Jameson was formerly district sales manager for Allied Structural Steel Company, Chicago.

• **Component Engineering Co.:** A new manufacturing plant, to be known as CECO, will fabricate a new type of roof truss for distribution throughout the United States. The firm will also make a type of truss plate, or fastener, which permits disassembly for shipping. President and general manager of Component Engineering, at Lake Oswego, Oregon, is G. M. McCormack. Marshall Leeper is vice president in charge of west coast manufacturing operations with Jack C. Brande as assistant.

• **Bethlehem Steel Co.:** Edward G. English, executive assistant to the San Francisco division's chief executive, has retired after more than 37 years with the company.

• **Aluminum Company of America:** The Pacific Northwest district sales office has moved into a new headquarters building at Broadway and Madison, Seattle. Designed by architects Klontz and Wrede, it features Alcoa's new Duranodic color finishes, and the Sol-Dec patterned screen covering. Joseph C. Coyne is district sales manager.

• **Kentile Inc.:** The Cronin Co., Portland, has been franchised as exclusive distributors of Kentile Floors in Oregon and southwest Washington. The announcement was accompanied by notice that Betty L. Meier has been appointed vice president, F. W. Cronin, treasurer, and R. M. Wilcox, secretary, of Cronin.

associations

• **California Redwood Association:** The CRA has moved to new offices at 617 Montgomery St., San Francisco.

• **Western Architectural Metals Manufacturers:** Kenneth W. Archer, Soule Steel Co., San Francisco, was named chairman of the organization at their annual meeting in Monterey. Mr. Archer succeeds John Pirak of Fentron Industries, Inc., Seattle. Other officers are Richard N. Giger, Fuller-Trimview Div. of Texas Aluminum Co., Los Angeles, vice chairman; David P. Carey, A. J. Architectural Products, Los Angeles, secretary-treasurer.

• **MoSai Institute:** Ralph C. Robinson, vice president and general manager of Olympian Stone Co., Seattle, has been elected president of the institute.

• **Vermiculite Institute:** L. K. Irvine of Salt Lake City's Vermiculite Intermountain, was elected president of the Vermiculite Institute of Chicago at the 22nd annual convention in Chandler, Arizona, succeeding C. H. Wendel of Los Angeles. Edward R. Murphy was retained as managing director.

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These words from James W. Cawdrey, former president of AGC before the Seattle Chamber of Commerce "Construction Man of the Year" presentation, led up to some important comments about the necessity for bettering communications between segments of the building industry.

Cawdrey pointed particularly to the need for an organized research program on an industry-wide basis. Great strides have been made in the field of new materials and machines. Segments of the industry have continued under the pressure of competition to provide major improvements in products and tools. There are radically new materials and methods, to the point that today's methods would not be recognized even by the previous generation of builders.

"Research must be coordinated between all phases of the industry," said Cawdrey, "so each of us knows what the other one is doing, and so that we can pool our information for the betterment of all. Too often new methods, new techniques and products are slow to be used because of the lack of communications."

He pointed a distressed finger at many areas of construction that suffer from poor communications—young architects who have lofty ideals of design but who are not capable of writing adequate specifications; bankers and bonding people who do not understand the intricacies and risks of construction; contractors and subcontractors bickering over their respective rights; labor forcing costs upward without increasing productivity.

In the end, the buyer suffers.

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Architecture / West

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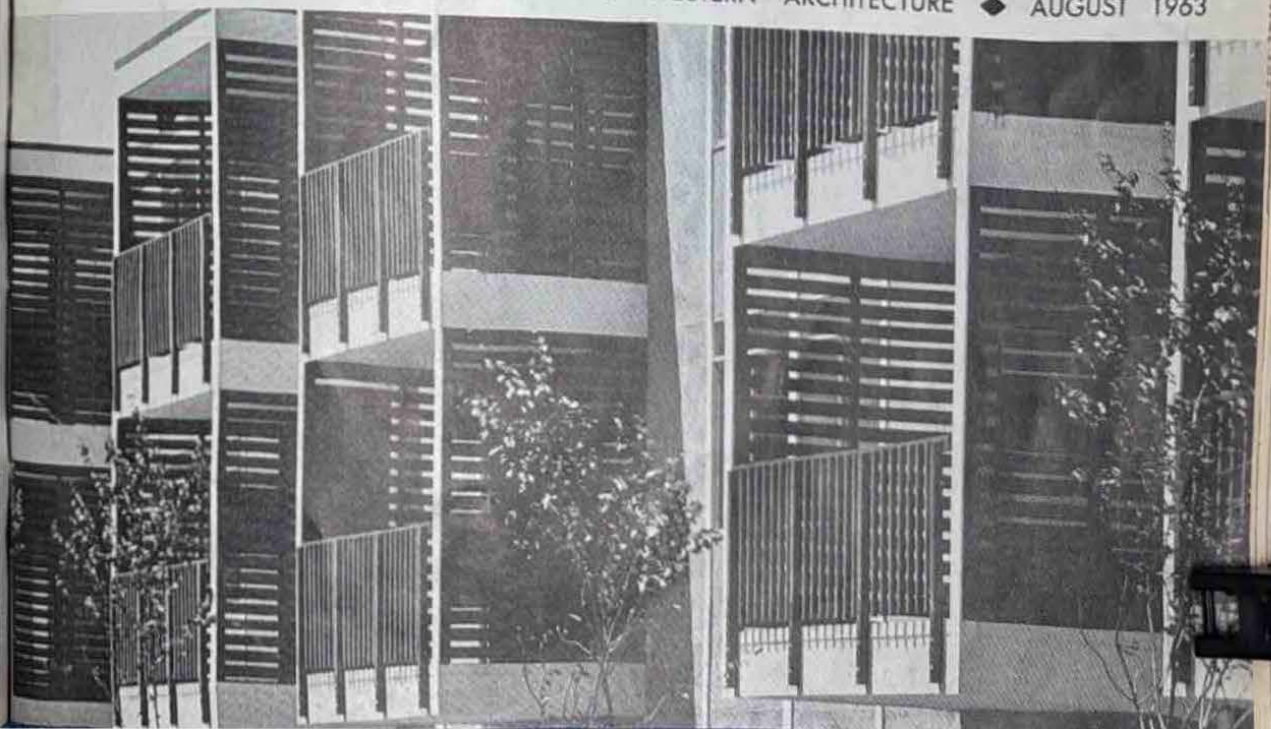

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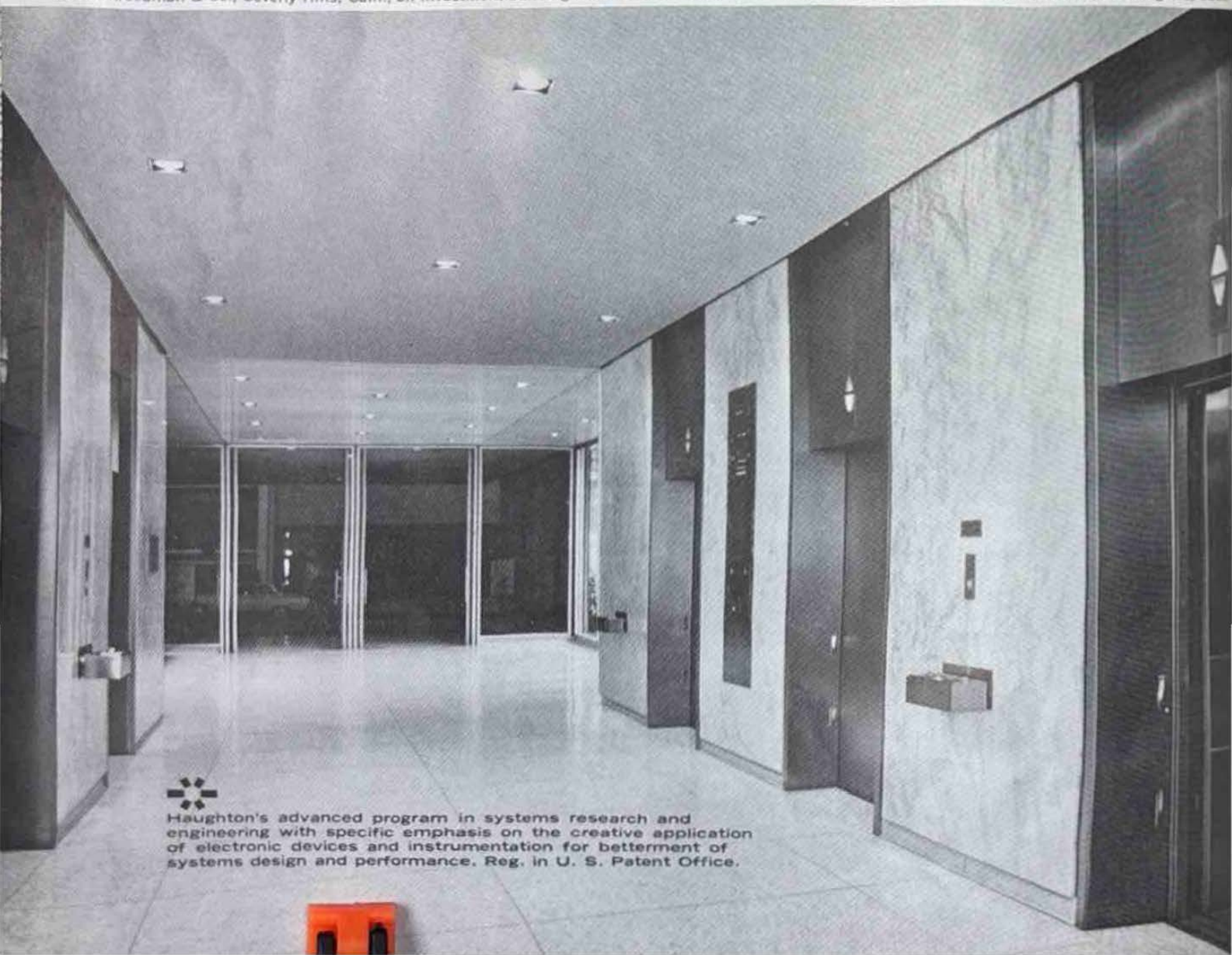

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Architecture / West

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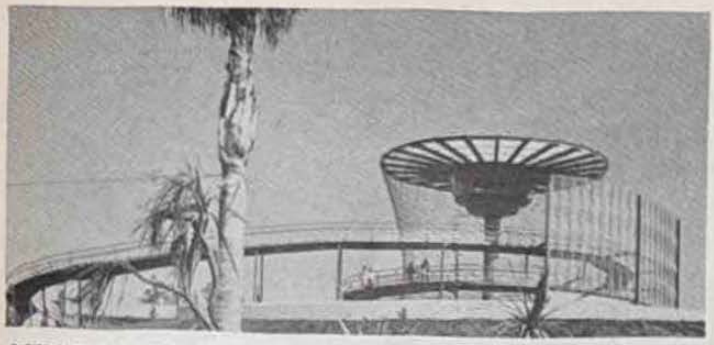
ABOUT THIS ISSUE: Developers of urban apartments are necessarily very concerned with factors of land use, density, putting the most people on the least land because that's the easiest way of reconciling the land and construction cost with the weight of the renter's billfold. But so often the financial aspects overshadow the human aspects to the point that the developer forgets that the people exist as people. The land and the building and the pocket book replace the person. The result is shelter, but not living.

Here we have found a number of urban garden-type apartments that have provided for living—pleasant living—and every one of them within the range of wafer-thin, after-tax billfolds. One even has a lake and a lagoon, albeit in the more wide open spaces of Nevada (page 15). Possibly more germane to the issue, a co-op in San Francisco, page 18; a smaller side-hill venture in Seattle, page 26; followed by two highly effective complexes in southern California. We've even gone out on the limb and described one by Tryon and Foy as having a "tree house" effect. All are simple construction using conventional methods and materials, but using them in a way to give tenants privacy, an effect of suburban spaciousness, with line and shape and form and color to spark the imagination and erase the word "dreary" from the vocabulary.

On page 32 are five more "Expressions of Western Urban Living," sketches of new projects that hold promise for future tenants. Whole cities can be revitalized by architects and contractors and developers who will take the extra effort to hyphenate two words: People-Living.



AWARDS OF EXCELLENCE—From a total of 74 entries, nine buildings (five from the West) have been selected to receive Architectural Awards of Excellence from the American Institute of Steel Construction. This is the fourth year the AISC has sponsored the awards program to encourage and recognize outstanding aesthetic design in structural steel.

Western structures and the architects cited were: Breo Freeman, Pasadena, for the Press Box at Pasadena Rose Bowl; Norris M. Gaddis, Oakland, for the Gibbon Cage at the Oakland Zoo (shown above); a joint venture of Kistner, Wright & Wright, Edward H. Fickett and S. B. Barnes & Associates, Los Angeles, for the Consolidated Marine, Inc. port facilities at San Pedro; Nelsen, Sabin & Varey, Seattle, for the Benjamin E. Weeks residence at Seattle; and Skidmore, Owings & Merrill, Chicago, for the Association of Universities for Research in Astronomy, Inc., Solar Telescope, Kitt Peak, Arizona.

John B. Skilling, Seattle consulting engineer, was a a member of the five-man jury.

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Highlights & Sidelights

Building records shattered first half of '63; Population explosion booms housing units

At the rate of almost one person every minute, California's population explosion is accounting for the boom in residential building, varying from the single family dwelling to the high-rise apartment, with all the many by-products created by an influx of people: schools, churches, medical centers, retail stores. The city of Los Angeles leads the nation in valuation of building permit totals for the first half of 1963 with $472 million, an increase of $92 million over the same period last year. Los Angeles county broke all June records with $43 million for June 1963 alone. San Francisco reached $90 million for the first half, an all time high for any six-month period in the city's history.

The trend is by no means confined to California, since residential construction is skyrocketing business all over the West. An indication of the times is a five month total from Albuquerque showing a record $34 million, three times that of last year. The city is well on its way to shattering the previous all time high of 1958 when $69 million was recorded for the entire year.

Las Vegas, already double that of last year at $46.8 million, has a surprising number of single family dwellings leading the housing boom in that area. March 1963, for instance, totaled $9.7 million in permits issued with $5.9 million marked for single family units alone. Deluxe hotels, apartments, motels and subdivisions, including a heavy concentration in the Lake Tahoe area, are keeping Nevada among the front-runners in the building boom.

Phoenix equals Las Vegas at $46.8 million for the same period. While housing is the main well of building in the Southwest, Arizona is moving heavily into school construction and municipal buildings with concentration on manufacturing facilities moving into the area.

Denver and the surrounding area has moved to the fore in western building construction, totaling $40.6 million for the six month period. The northern California area, Sacramento and environs, is rapidly expanding, with residential units the major item. A May 1963 check shows that of the $15.3 million permit valuation, $6.3 million was for dwellings, $4.4 million for apartments. The state of Utah has had a surge in residential building, up about 12% over the first six months of 1962 with a total of $97.9 million, up $10.2 million from 1962. A pioneer in condominium apartments, Salt Lake City has several large units underway.

Some interesting sidelights are shown in the six month survey. In Denver, for example, a great many of the single family dwellings were planned for use with brick veneer. In California and Nevada, swimming pools account for a large share of the building permit valuation. Saratoga, California, records about seven swimming pools per month, or one for each four and one-half homes, with average home valuation at $25,000. There were 421 swimming pool permits issued in Los Angeles in June 1963 at $1.4 million.

Ranking second to new housing, were alterations and additions to homes and apartment units. High on the valuation list were carports and garages for all type dwellings. A surprising item was the number of permits issued for signs, the result perhaps of "Operation Facelift" in many Western cities. Notable was the absence of fallout shelters in most areas.

Subdivisions, shopping centers, resort areas, plus the downtown development planned in most major west-

rn areas, account for the greater portion of other building construction.

Not yet to the building permit stage, but with plans underway all along the western frontier, are the many college developments, becoming necessary as the trend for the young men of America, ages 18 to 25, is to go west. In one day in the Seattle area, eight architects were retained on schools alone, a general trend throughout the West. Predicted, also, in the Greater Seattle area, within the next 10 years is the construction of some 400 churches, based on a rapid transit study, with the expected population increase as predicted over 10 years following the 1962 World's Fair.

Urban renewal and downtown redevelopment, in major cities in the West is long past the planning stage. Most areas have already adopted some significant plan (Pomona, the Los Gatos competition, Santa Fe Capitol improvement, Salt Lake City Downtown Redevelopment, San Diego Community Development) and many cities have plans waiting acceptance by city fathers. California has about $400 million in urban renewal alone.

With the West at present responsible for 35% of all the nation's building, the prediction for the coming six months, based on the valuations of the first half of this year, would indicate that the 13 western states will surpass themselves, shattering all records to date.

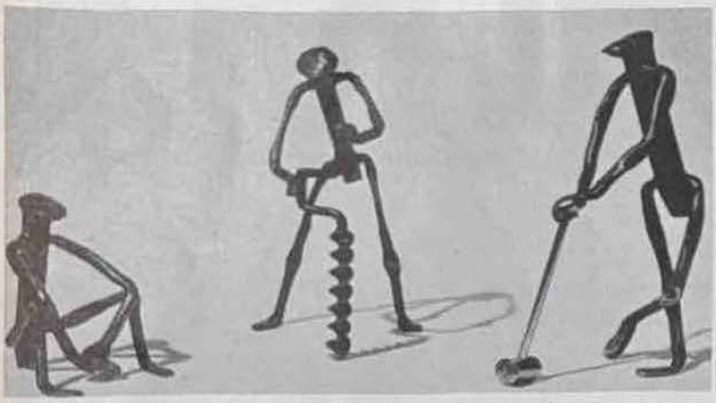
Fifteen top agencies (in millions) for the first half of 1963 listed here, show the amount of increase in parentheses: **Los Angeles**, $472.1 ($91.9); **Los Angeles County**, $257.5 ($41.1); **San Francisco**, $90; **Honolulu**, $70.8; **Sacramento County**, $66.4 ($24.3); **King County, Wash.**, $62.8; **Orange County**, $55.4 ($17.3); **Phoenix**, five months only, $46.8; **Las Vegas**, $46.8 ($24.6); **Denver** and surrounding area, $40.6; **Riverside County**, $35 ($6.6); **Albuquerque**, five months only, $34 ($17.7); **Sacramento**, $27.3; **Pima County, Ariz.**, $23.8 ($6.6); **Costa Mesa**, $23.5 ($5).

ARCHITECTURE ON THE MOVE — For a time it appeared as if the theme for the 12th Annual Northwest Regional Conference, AIA, might be changed to "Architects on the Move." With plans all complete, host Southwest Washington Chapter was stunned when the Hyatt House, conference site at Seattle, was destroyed by a fire early in June. An active group, the chapter had promised to do everything on a bigger and better scale than the 1962 Oceanlake conference, which had been buffeted by an unprecedented storm that wreaked havoc along the coast, and left the conference being conducted by candlelight. The chapter has been the subject of much ribbing in the Northwest, where it is pointed out that they certainly had outdone Oceanlake - but their timing was a little off! Undaunted, the group has utilized the front page fire story in the Tacoma News Tribune as a clever mailing piece to announce that the conference headquarters will still be the Hyatt House in Seattle, September 8 to 12. Tents for meetings, poolside dining and cooperation from nearby motels will more than substitute for the damaged facilities. Guest speakers will be Charles R. Colbert, architect-planner of New York and New Orleans; Lawrence Halprin, landscape architect from San Francisco, and Dr. Donald W. MacKinnon, director, Institute of Personality Assessment & Research, University of California.

EICHLER CREATES MULTI-FAMILY DIVISION — Joseph L. Eichler, founder of Eichler Homes, Inc., has stepped up from president to chairman of the board where he can devote more time to a newly-created Multi-Family Division, with offices at 360 Pine St., San Francisco. Eward P. Eichler has assumed the presidency of the firm at the company's headquarters, 2151 St. Francis Drive, Palo Alto.

Tacoma Millwork Supply Company 3000 South Alaska Tacoma 2, Washington

CONSEQUENCE OF DESIGN—The Second Pacific Rim Architectural Conference, hosted by California Council, AIA, will be in Mexico City, October 12-18. The theme will carry forward that of the First Pacific Rim Conference in Hawaii in 1959, Wellsprings of Design. Objective of this second conference is to stimulate exchange of professional knowledge and inspiration between American architects and those of other Pacific nations. An invitation has been extended to architects of Mexico, Central and South America, Canada, Panama, the Philippines, Australia, New Zealand and Japan as well as United States architects. Included in the Pacific Rim conference will be the 18th annual convention of the California Council, AIA, the Fifth California Regional AIA meeting, the 13th annual meeting of the Women's Architectural League of California. All events, with the exception of professional tours and field trips, will be in the new Maria Isabel Hotel. The CCAIA is offering a basic travel package which includes registration and participation in both professional and social events. Travel arrangements must be made through the official travel coordinators, Don-Em Travel Center, 68 Post St., San Francisco. Information may be obtained from the California Council office at 1736 Stockton St., San Francisco.



SUB-SURFACE EXPLORATION—This sculpture group, part of the Soiltest, Inc., Art and Engineering collection, is used to acquaint the non-engineering public with the need for quality control and engineering testing in conjunction with construction projects of all types. The Chicago firm's engineers emphasize that a knowledge of the conditions of the soil upon which a new structure is to be built often eliminates costly errors and failures. The three figures, modeled from railroad spikes and steel rods by noted sculptor Harold Kerr, convey the strength of movement and the intensity of the engineer's interest in what lies beneath the surface of the ground.

STEEL ADVISORY COMMITTEE—Representatives of the steel industry in the Pacific Northwest have formed a new organization to promote the use of steel in construction. The organization, called the Steel Advisory Committee, is sponsored by the American Institute of Steel Construction and the Pacific Northwest Steel Fabricators Association. Object of the committee is to inform architects and engineers of new materials and techniques being developed by the steel industry, and of their application. Interested firms who would like to become members of the organization, or to avail themselves of their services, may contact Elmer Gunnette, regional engineer for the AISC, 1307 Dexter Horton Bldg., Seattle.

HOUSING FOR AGED, ARCHITECTS RESPONSIBILITY—In the opinion of Noverre Musson, Columbus, Ohio architect, who has pioneered the field for housing senior citizens, it is the responsibility of the nation's architects to take the initiative in spurring the construction of living facilities for the country's rapidly increasing over-65 age group. Such construction, he points out, is moving at a snail's pace. Architects are best equipped to originate, and package such projects, and sell the idea to civic, fraternal, religious, union or philanthropic organizations to sponsor them. Architect Musson is author of a book, "Building for the Elderly" in which he cites four major objectives in planning buildings for older people: safety, comfort, adventure and the creation of a residence rather than an institution.

EDWARD DURELL STONE—Two West Coast commissions are presently occupying the New York architect: the Alaska Methodist University 500-acre campus on Goose Lake near Anchorage, and the $2.8 million Von KleinSmid Center for International Public Affairs on the University of Southern California campus.

NEW MEXICO COMPETITION—At the annual conference of the New Mexico Chapter, AIA, in Santa Fe, two first awards, two merit awards and a citation were made by a jury composed of Henry L. Wright, FAIA, Los Angeles; Elizabeth K. Thompson, western editor of Architectural Record; and Robert Berne, chief architect, architectural and engineering development division, Washington, D. C. Associated Architects of Santa Fe, composed of John P. Conron, David Lent, Philippe Register and Robert Plettenberg, won for their proposed plan for the State Capitol. Flatow, Moore, Bryan and Fairburn, Albuquerque, were cited for College of Education buildings at U. of N.M.

Merit awards were given to John Reed, Albuquerque, for the Marberry Plaza in that city and to Ferguson, Sevens, Mallory and Pearl, Albuquerque, for the East Exchange, Mountain States Telephone and Telegraph Co. building at Albuquerque. A citation was given W. T. Harris, Hobbs, for the fellowship unit of the Hobbs church building.

CONSULTING THE CALENDAR—Western District, AIA, regional conference, Jackson Lake Lodge, Jackson, Wyoming, Aug. 23-25 . . . **Region 5, Producer's Council,** Mark Thomas Inn, Monterey, Calif., Aug. 26-27 . . . **American Building Contractors Assn.** annual convention, Mark Hopkins Hotel, San Francisco, Aug. 16-18 . . . Second **Specifications Seminar** at University of California at Los Angeles, sponsored by UCLA and the Los Angeles chapter, CSI, Sept. 5-6 . . . **1963 Annual Meeting, Producer's Council,** Shoreham Hotel, Washington, D. C., Sept. 17-20 . . . **Engineering Council for Professional Development,** annual convention, Blackstone Hotel, Chicago, Sept. 30-Oct. 1 . . . **Structural Engineers Association of California,** 1963 convention, Ahwahnee Hotel, Yosemite, Oct. 3-5 . . . **Condominium conference,** sponsored by Associated Home Builders of the Greater East Bay, Jack Tar Hotel, San Francisco, Oct. 4, and at Rodger Young Auditorium, Los Angeles, Oct. 7 . . . **Western Building Industries Expos.,** Great Western Exhibit Center, Los Angeles, Oct. 1-7 . . . **Prestressed Concrete Institute** annual convention and conference, first portion, Sheraton-Palace, San Francisco, Oct. 5-11; second part, Hawaii, Oct. 14-18 . . . **International Symposium on Architecture,** Mexico City, hosted by Sociedad de Arquitectos Mexicanos, Colegio Nacional de Arquitectos de Mexico and the Mexican Section of the International Union of Architects, Oct. 8-12.

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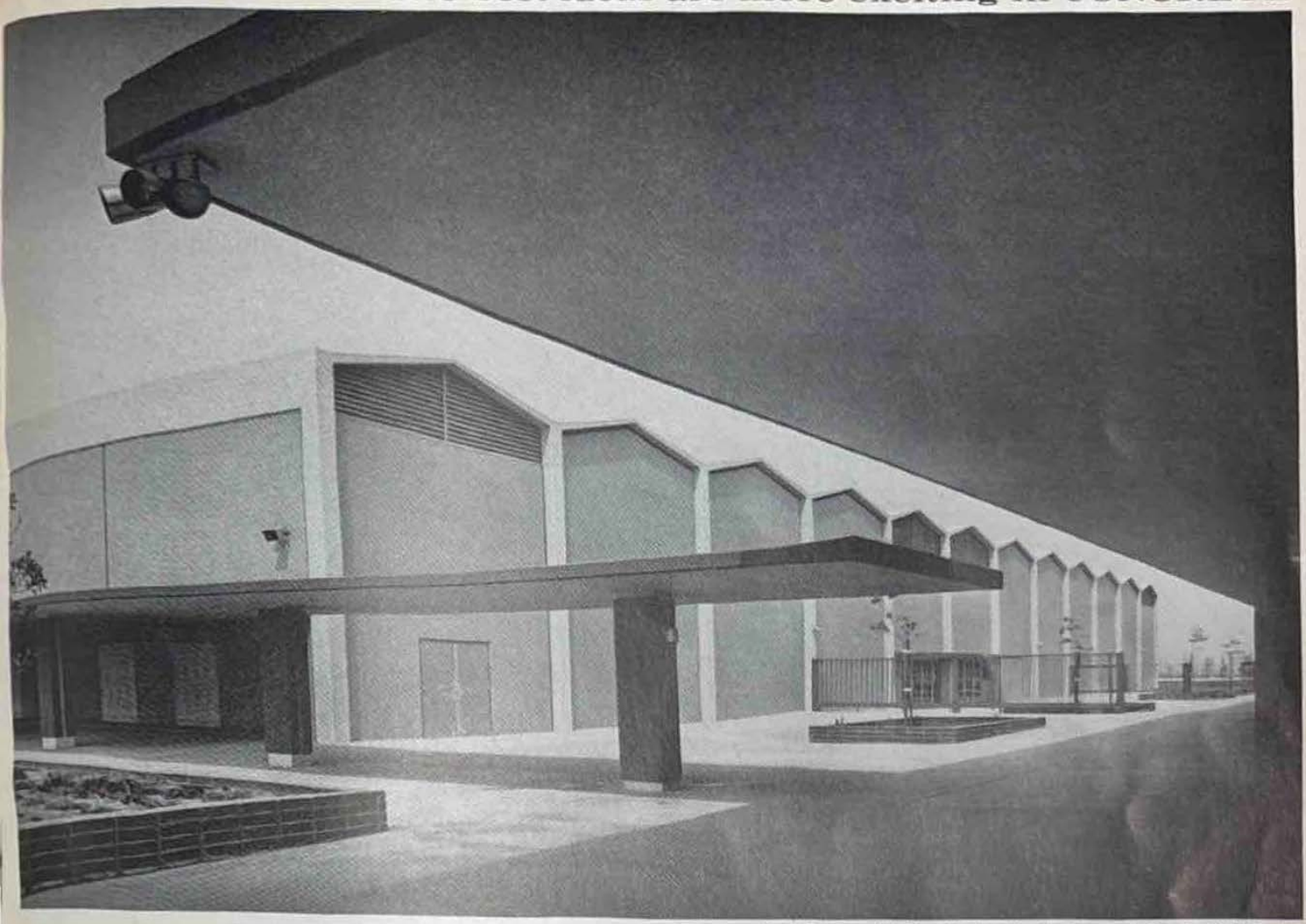
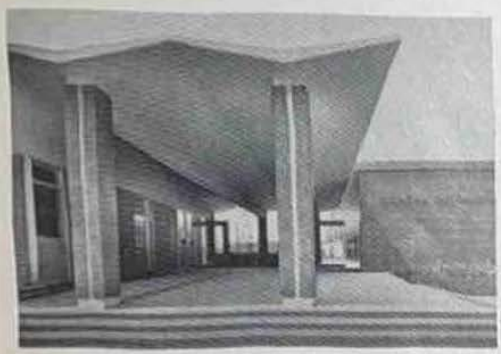


New Corona del Mar High School, Newport Beach, California

Fitting crown at Corona del Mar High School... a roof of prestressed concrete single "tees"



A wide flaring canopy of prestressed concrete single "tees" with angled flanges gives the effect of folded plate sections at the main entrance of the new Corona del Mar High School. Architect: Blurock Ellerbroek and Associates, Corona del Mar. Structural Engineer: John A. Martin, Los Angeles. General Contractor: Nylin Hurd Construction Company, Santa Ana.

Corona del Mar means "Crown of the Sea"...and this beautiful new high school, near the ocean at Newport Beach, California, lives up to its name. Fitted to the demands of the most advanced teaching methods, the school incorporates the most advanced design and building techniques.

The architect chose concrete as one of his basic materials, because it incorporates beauty of design with economy of construction. The classroom buildings have prestressed, lift-slab concrete roofs on columns. Some walls are of precast concrete with exposed aggregate. Others are of exposed brick. The gymnasium and entry canopy are roofed with 101′ x 20′ bay-size, precast concrete "tee" sections.

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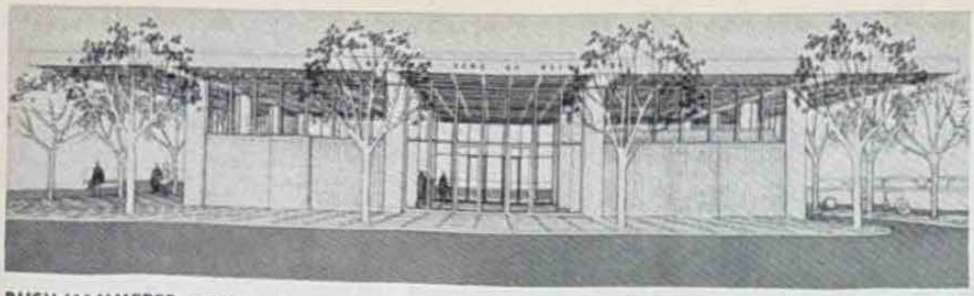
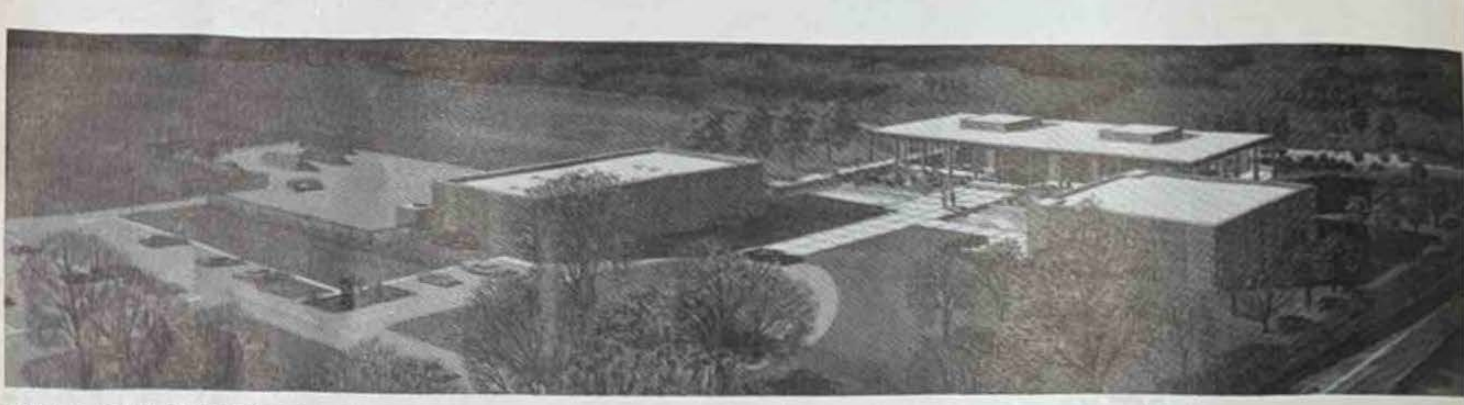
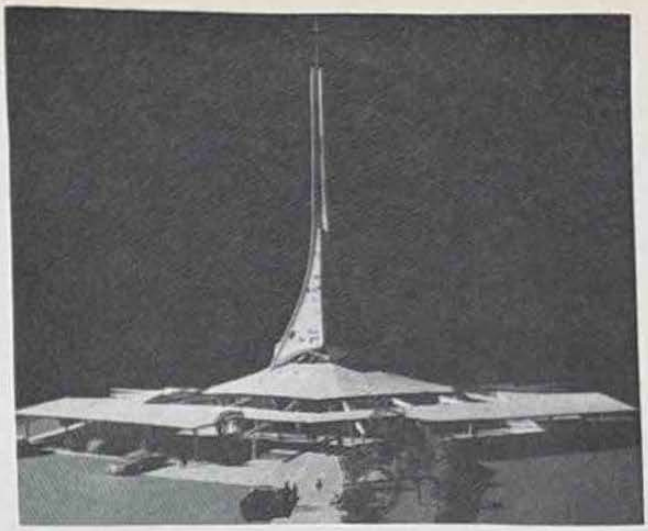


BUSH-HAMMERED reinforced concrete columns and beams, waffle-type roof construction, brick filler walls are features of the Auburn, Washington branch, National Bank of Washington. Main floor will occupy 5,000 sq. ft., with basement area of 3,300 sq. ft. Approximate cost $200,000. Architects: Liddle & Jones, Tacoma; Don Allison, Auburn, associate.

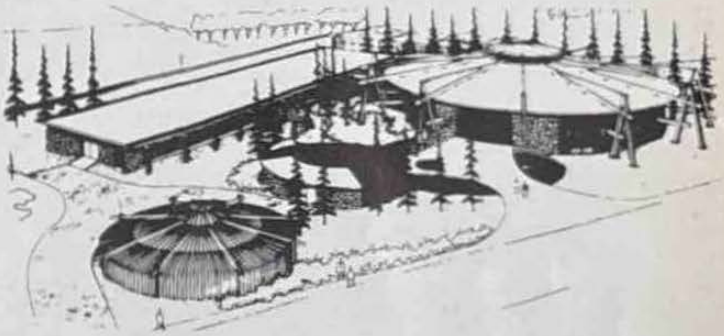


CENTRAL SERVICE FACILITY for the Intermountain Gas Company, Boise, will have three major buildings plus a turbine house in the entry court. Office building is two levels of "bull-pen" type with two central cores housing conference rooms and utilities. Service building has warehouse, various shops, offices. Hospitality House is a theater-in-the-square arrangement with folding partitions for conventional stage and platform purposes, office social affairs, community functions. Office building and turbine house will be warm gray glazed brick; service building and Hospitality House, three shades of blue glazed brick. Landscape concept will supplement natural landscape of old farmhouse site with its many mature trees. Architects: Kenneth Brooks & Associates, Spokane; Nat J. Adams & Associates, Boise, resident architects; Lawrence Halprin, San Francisco, landscape architect.

MERCY SAN JUAN HOSPITAL, Carmichael, California, will ultimately be a complex of six buildings. Planned for immediate construction are the 215-bed hospital (to be expanded to 430), chapel and convent, shown at left in sketch. A future auditorium is at right. Total site will contain a girls' school, nursing home and medical office building. Hospital will be reinforced concrete on two lower levels, steel frame for four story (ultimately six) tower containing nursing floors. Exterior walls are pre-cast concrete panels, exposed aggregate finish. South walls are protected from sun with balconies and sun screen grilles. Hospital is administered by the Sisters of Mercy. Architects: Rex Whitaker Allen and Associates, San Francisco; Gordon A. Friesen Associates, Inc., Washington, D. C., consultants.



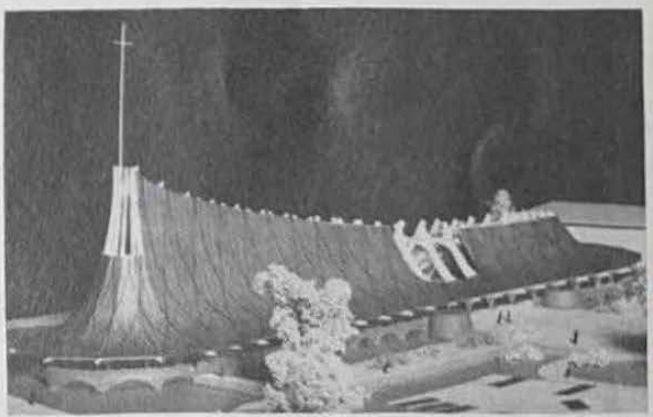
BASIC PLAN of the First Lutheran Church at Vista, California, is made up of concentric rings of various secular functions of the church program with the Worship Center isolated by a ring of open court with an outer ring containing educational facilities, administration offices, parish hall. Three precast concrete columns rise to a height of 75 ft., forming large lantern terminated by a simple cross. Native stone wall forms entrance. Architects: Des Lauriers-Sigurdson, La Mesa.



FUTURE EXPANSION for Intermountain Forest and Range Experiment Station at Bozeman, Montana, as illustrated in the sketch, will complement the Forest Sciences Laboratory, just completed. Designed to accommodate research on wood products by the U.S. Forest Service, buildings will place emphasis on technological and esthetic qualities of wood in construction. Largest circular building will house engineering laboratory. Green house is in center with lath house for engineering model analysis facilities. Architects: Oswald Berg, Jr., and Associates, Bozeman.

FIRST NATIONAL BANK, Sterling, Colorado, is set on a base of brick pavers. Exterior of the building is precast Mo-Sai panels applied to a concrete frame. Architect: W. C. Muchow & Associates, Denver.

REDMOND AIR CENTER, Redmond, Oregon, is first phase of regional training and operational center for U.S. Forest Service for smoke jumpers and other airborne fire-fighting personnel and equipment. Wood construction is designed to complement dry tablelands of Central Oregon. Mess Hall (top) will accommodate 100 men; Parachute Loft building (center) has 50-ft. drying tower, ready room, offices; 25-man barracks (lower). Site provides for future construction of additional barracks, administration buildings, warehouses and residence. Architects: Franks and Norman, Portland.



PRINCIPAL ELEMENT of construction on the Central Methodist Church, Stockton, involves the precast concrete bents, which though of graduated heights, are all of same shape, cast from same forms. Now under construction, sanctuary of church reaches maximum height of 80 feet over the chancel. Roof is of heavy planking covered with thick redwood shakes. Low, wide overhanging eaves are designed for sun protection. Main entrance is from parking lot with a similar entrance on opposite side, leading into open atrium which has sanctuary on left, Fellowship hall and administration offices on right. Architects: Anshen & Allen, San Francisco.

T-SQUARE TALK

appointments

John T. Daly, Phoenix architect, has been appointed Director of Architectural Research and Design for Staggs-Bilt Homes, Inc. of Phoenix.

Everett Parks, partner in the firm of Parks & Davis, has been appointed to the Santa Ana Planning Commission.

Boise architect, Edgar B. Jensen, has been appointed by Idaho Governor Robert E. Smylie to head a committee study in Idaho of the extent to which architectural barriers prevent or make difficult the use of public buildings by persons with ambulatory difficulties.

Gregory Ain, Los Angeles architect, has been named professor and head of the department of architecture at Pennsylvania State University.

Erratum: The June issue carried an announcement of the appointment of Architect Robert S. Oliver as assistant professor of architecture at the University of Arizona. The appointment of Architect Oliver, Marysville, California, is to Arizona State University at Tempe.

John M. Morse, senior member of the Seattle firm of John M. Morse & Associates, has been named to the King County Planning Commission succeeding architect Perry B. Johanson, resigned. The term expires June, 1964.

Robert L. Hart and John S. Bolles are members of the board of directors of the newly formed Citizens' Planning Committee of San Francisco.

Eric Pawley, research secretary of the AIA headquarters staff in Washington, D.C., has been named a professor of architecture at the University of Southern California where he will teach and direct USC's research in architecture.

Professor Martin Meyerson has been named to succeed Dean William W. Wurster, FAIA, as head of the University of California's College of Enviromental Design, Berkeley. He has been acting dean, graduate school of design, Harvard University.

Ronald W. Hendrickson has been appointed vice president in charge of administration and management for James H. Van Dyke, AIA and Associates, architects and engineers, Los Angeles.

honors and awards

Henry L. Wright, FAIA, Pasade immediate past president of the AI has been presented with an honora fellowship in the Mexican Socie of Architects, in the Royal Archite tural Institute of Canada, and mo recently, in the Philippine Institute Architects at the Manila conventio

Emmett L. Wemple, associate pr fessor of architecture at the Universi of Southern California, and Glenn Foy, associate professor of civil eng neering, University of Southern Cal fornia, have each been awarded $1,0 from the USC Associates for exce lence in teaching.

Theodore Osmundson, Jr., Sa Francisco, is one of seven landsca architects named to Fellowship the American Society of Landsca Architects. Mr. Osmundson was i augurated as third vice president the ASLA at their 64th annual mee ing in Pittsburgh. Douglas Baylis, Sa Francisco, was installed as a truste of the society.

Cox and Liske, Sacramento arch tectural firm, have been awarded 1963 Masonry Honor Award by th Sacramento Masonry Joint Industr Board for outstanding architectur design and use of unit masonry.

elections

C. J. Paderewski, FAIA, San Dieg was elected to the office of secon vice president of the National Counci of Architectural Registration Board during the Council's 42nd annual con vention at Miami Beach in May This is an organization of the board of the 50 states, Canal Zone, Distric of Columbia and Puerto Rico.

Robert Fehlberg, Billings, was re elected president of the Montana In stitute of Arts at the 15th annua state festival in June.

Charles Luckman, FAIA, president of Charles Luckman Associates, Lo Angeles planning-architecture-engineering firm, has been elected chairman of the Board of Trustees of the California State Colleges. In assuming the chairmanship, he heads the largest state college system in the world, with more than 100,000 students in 17 colleges.

R. R. Kirkwood, a principal and director of engineering for John Graham and Co., Seattle, was elected director of the American Society of Heating, Refrigerating and Air Conditioning Engineers, at the annual meeting in Milwaukie, Wisconsin, where he was also elected to the chairmanship of Region 10 of the society.

PRESBYTERIAN CHURCH
MERCER ISLAND, WASH.

Paul Thiry, FAIA, Architect

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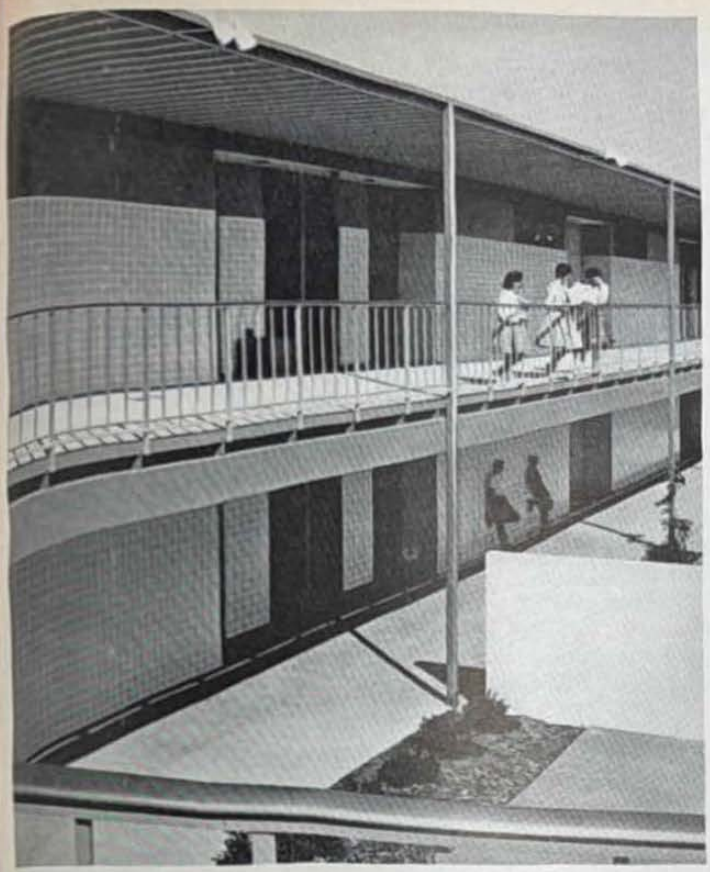

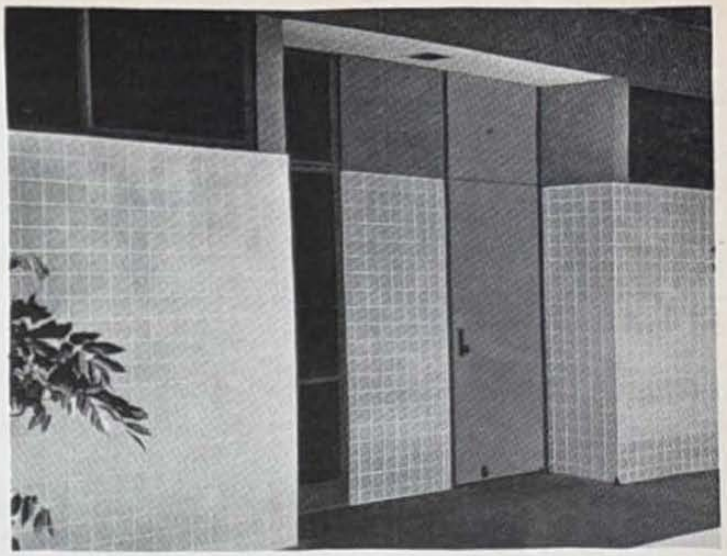

Virtually No Vandalism Paul Butler, the school district's assistant superintendent, points to a psychological factor. Students, he reports, seem to take pride in their new school. There has been virtually no vandalism.

Additional Savings Use of genuine ceramic tile also has cut maintenance costs in toilet areas, locker rooms and shower rooms. "There is none of the pocking and pitting due to alkali working down through aggregate, that creates germ-breeding places," Mr. Hiestand reports. "Nor is there damage from urine or detergents."

New school saves with use of ceramic tile

Ceramic tile is the most economical material to use for surfacing school corridor walls, as well as shower and restroom areas. This now has been proved beyond doubt at the new Alondra Junior High School, Paramount, Calif.

No Extra Initial Cost Bids revealed that surfacing with Franciscan Hermosa Tile, on lath and plaster, would be comparable in cost to a third coat of plaster and paint. So architects Killingsworth, Brady & Smith, AIA, and a perceptive school board, promptly selected Franciscan Hermosa Tile.

Maintenance Costs Cut According to James Hiestand, maintenance manager of the Paramount Unified School District, plaster corridor walls at other schools must be spot painted annually, and completely painted every three years. "The tile corridors at Alondra," he says, "will never need painting. This saves us an estimated $10,000 every thirty years." In addition, he points out, many pounds of patching material and man-hours of labor are saved.

Daily maintenance costs also are decreased, according to Earl Appleton, head custodian at Alondra. "Dirt and writing easily wipe off with a damp rag," he says. "So we spot the walls every night. This would be impossible with plaster. It takes an hour to clean pencil marks or ballpoint ink off plaster, then another hour painting.

"Repair costs also are less. When a truck ran into a wall and damaged four tile, we replaced them in a few minutes. Patching and painting plaster would have required several man-hours." Narrow, flush joints with Square-Edge Franciscan Hermosa help cut cleaning time.

General contractor for the Alondra Junior High School was Flowers, Shirley and R. C. Allen Construction Co.; tile contractor, Continental Tile & Marble Co. Construction cost per square foot was about average for schools built under the State of California program.

For further data that conclusively disproves the "tile costs more" myth, talk to your Franciscan Hermosa Tile representative. Or write International Pipe and Ceramics Corporation.

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SEATTLE/SPOKANE/SALT LAKE CITY/PHOENIX

T-SQUARE TALK

new firms

Jack J. Strickland & Ron Yeo have formed a partnership with offices at 9012 Garden Grove Blvd., Garden Grove, Calif.

Otto Poticha has opened offices for the practice of architecture at 362 E. 12th Ave., Eugene. Mr. Poticha was recently in the firm of Wilmsen, Endicott & Unthank, Eugene.

Kermit Dorius and K. Stanley Bell have merged their offices and formed a partnership to be known as Dorius and Bell, AIA, with offices at 2712 East Pacific Coast Highway, Corona del Mar.

Shigenori Iyama, Oakland architect, and John M. McWilliams, San Francisco designer, have joined forces in the new firm of McWilliams & Iyama with offices at 38 Mason St., San Francisco.

firm changes

Darrell Leatham is a new associate in the Boise firm of Nat J. Adams & Associates.

Doyle W. Allen has been named an associate of the firm of Wayland, Cline & Smull, Architects, Boise.

Edmond MacCollin is new partner in the Salem firm of Groom, Blanchard, Lamen and MacCollin, after five years as head of the inaugural architectural program at Texas Technological College, Lubbock, West Texas.

The firm of Robert S. Oliver, AIA, & Associates will be succeeded by Lloyd P. Martin, Architect at the same address, 610 C Street, Marysville, Calif. Mr. Martin has been an associate of the firm for five years.

Robert Wilmsen of Wilmsen, Endicott & Unthank, Eugene architects, has assumed responsibilites of partner-in-charge of the firm's Portland office. The office, established two years ago, is in suite 801 of the Standard Insurance Bldg., 812 S. W. Washington St. Charles Endicott and De Norval Unthank, Jr., the other two members of the firm, will be responsible for the Eugene office.

miscellany

Donald E. Evenson, Laguna Beach, has been named winner of the 40th Francis J. Plym fellowship in architectural competition for graduates of the University of Illinois department of architecture. The award carries a $3,000 prize to be used in six month foreign travel for the study of archi tecture.

The professional engineers in th Salt Lake area have formed the Sal Lake Chapter of the Utah Society o Professional Engineers with E. Alla Hunter, Utah Power & Light Co., a president, and Leonard Slusser, of th Leonard M. Slusser Co., state directo

Paul Thiry, FAIA, and David Mc Kinley, both of Seattle, along wit Stewart Williams, Palm Spring Calif., are on the board of assessor to judge competition for the ne Simon Fraser University in Britis Columbia, estimated to cost $15 mil lion. There will be five awards o $5,000 each with the object of th contest to choose architects for wor to be commissioned in the building o the university.

Spokane Chapter, AIA, has se August 19 as the deadline for entrie for their Fourth Annual Hono Awards competition. Walter Folz i chairman of the awards committee.

deaths

John A. Jensen, 77, Boise landscape architect, died in that city on June 18. A native of Denmark, he entered the landscaping field in Boise in 1920, doing work for the Idaho Statehouse and a number of other public buildings.

John Stephan Dale, San Diego, passed away June 6 after a lengthy illness. A native of Chicago, he had been associated with Frank L. Hope & Associates from 1955. An active member of the San Diego Chapter, AIA, he served committee and professional functions until his illness.

Architecture Scholarships

The Tile Council of America trade association of leading domestic ceramic tile manufacturers, has now granted $750-a-year, three-year scholarships to every accredited School of Architecture in the United States.

The list of all 50 schools covered was completed June 18 with the announcement that eight schools accredited for the 1962-63 school year, have been selected to receive scholarships.

Of the $750 given each school, $500 is to be used as a scholarship or loan fund for architectural students, with the remaining $250 to be used in furthering instruction facilities in courses on building materials.

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ew addresses

Ira C. Marshak to 820 South 6th St., Las Vegas.

Virgil A. Meeds to 1208 S. Trenaine Ave., Los Angeles.

John F. Crider to 1100 East Plumb Lane, Reno.

John Kemp to 2310 Trillum St., Eugene, from Portland.

Charles J. Grein to 6571 Abbott Dr., Huntington Beach, Calif., from Panorama City.

R. Odermatt to 39 Drury Lane, Berkeley.

John Garritson to 19448 Vintage St., Northridge, Calif., from Van Nuys.

Gordon E. Ruehl to 3727 S. Lee, Spokane.

Clifford Stanfield to 5801 University Ave., San Diego, from La Jolla.

Dayton N. Holloway to 2101 S. E. Boulevard, Spokane, from Pullman.

R. Lindsey Lamberson to 1680 San Andreas Rd., Watsonville, Calif.

E. E. Loiseau to 1810 N. 50th St., Seattle.

Robert H. Greenlee to 3690 Mount Diablo Blvd., Lafayette, from Oakland.

Residential design entries invited in FHA-sponsored 1963 Honor Awards program

THE FEDERAL HOUSING Administration, in a move to give recognition to superior design in homes, apartment buildings and subdivisions, is sponsoring a 1963 Honor Awards program for residential design. The competition is aimed at promoting wider understanding of the principles of good design and at the same time carry out the National Housing Act objective of encouraging improvement in housing standards and conditions.

An invitation to enter competition is being extended to architects, landscape architects, designers, builders and owners of individual houses, multi-family housing projects (rental, cooperative, condominium), nursing homes and housing projects for the elderly, completed on or after January 1, 1958. Such entry must have had an FHA commitment before construction, whether or not the mortgage was eventually insured.

Deadline for registration is August 10, 1963 with September 1, 1963, deadline for mailing submissions. Judging will be October 1 in Washington, D.C.

Registration and information may be obtained by writing the Director, Architectural Standards Division, Federal Housing Administration, 811 Vermont Ave. N.W., Washington 25, D.C.

Harold A. Carlson to 600 N. Euclid, Suite 686, Anaheim.

Lee F. Wilcox to Suite 104, 12311 E. Chapman, Anaheim.

Orange County Chapter, AIA, to 433 West 8th St., Room 214, Santa Ana.

Robert F. Street to 100 W. First St., Aberdeen, Wash.

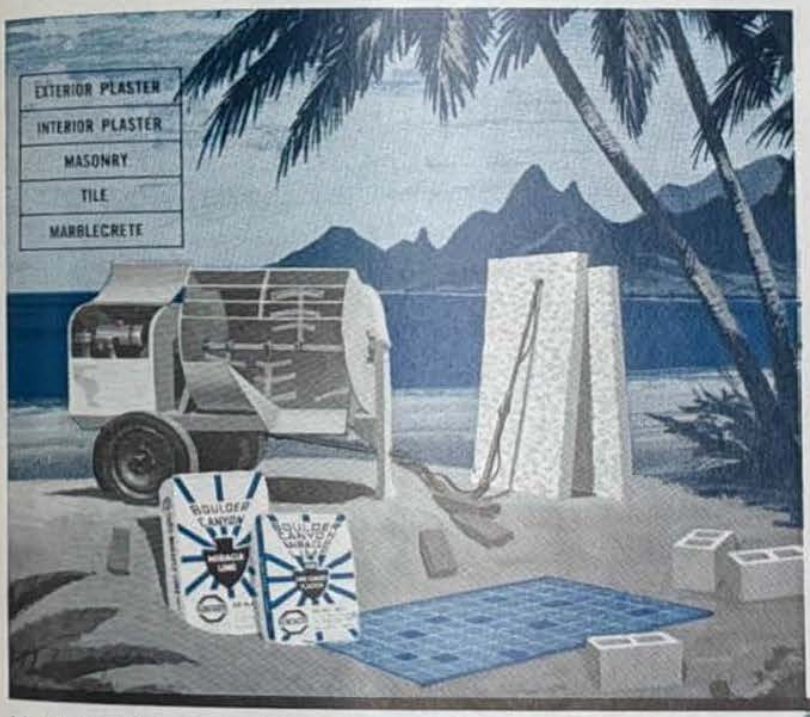
Ronald S. Cameron to 106 East E Street, Yakima.

Edson & Pappas to 128 E. Main St., Medford.

Isamu P. Furukawa to 1601 W. Redondo Beach Blvd., Gardena, Calif.

Horace L. Brand to 4100 West 38th Ave., Denver, from Arvada, Colorado.

The June 1963 issue incorrectly carried the new address of J. Richard Shelley, Robert P. Zamboni and Associates. It should have read 4311 E. Seventh St., Long Beach.



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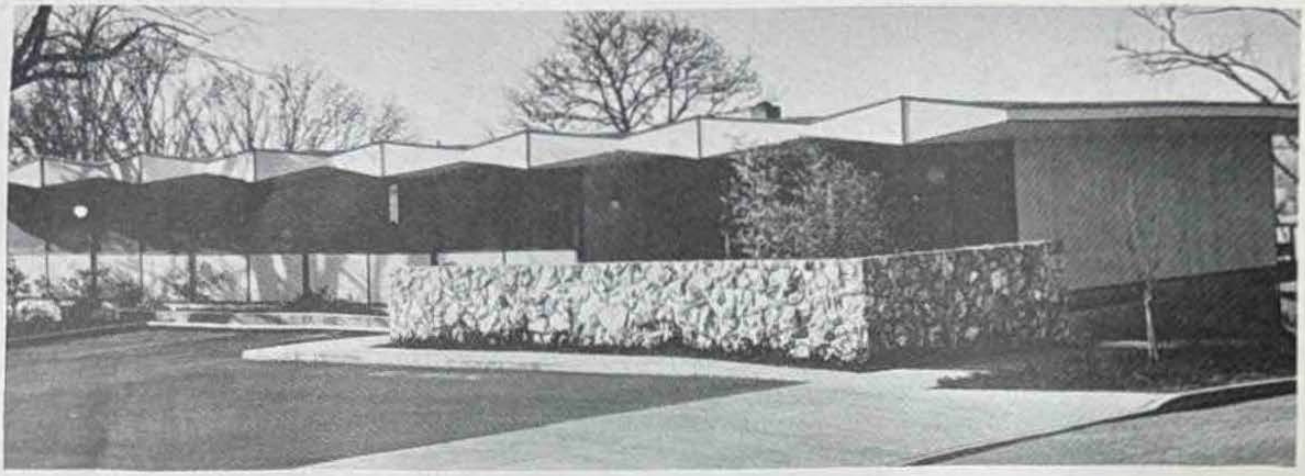


JAMES L. PAYNE
Salem, Oregon

JAMES L. PAYNE and some 20 cohorts are hanging their hats in distinctive new quarters overlooking the winding Willamette River and the foothills of the Oregon coast range.

The split-level building provides views from nearly all offices and the drafting room. It has a diamond shaped fascia design that is repeated throughout the structure, including such details as a mosaic tile work on the front door and decorative features of the drafting tables and sliding glass doors.

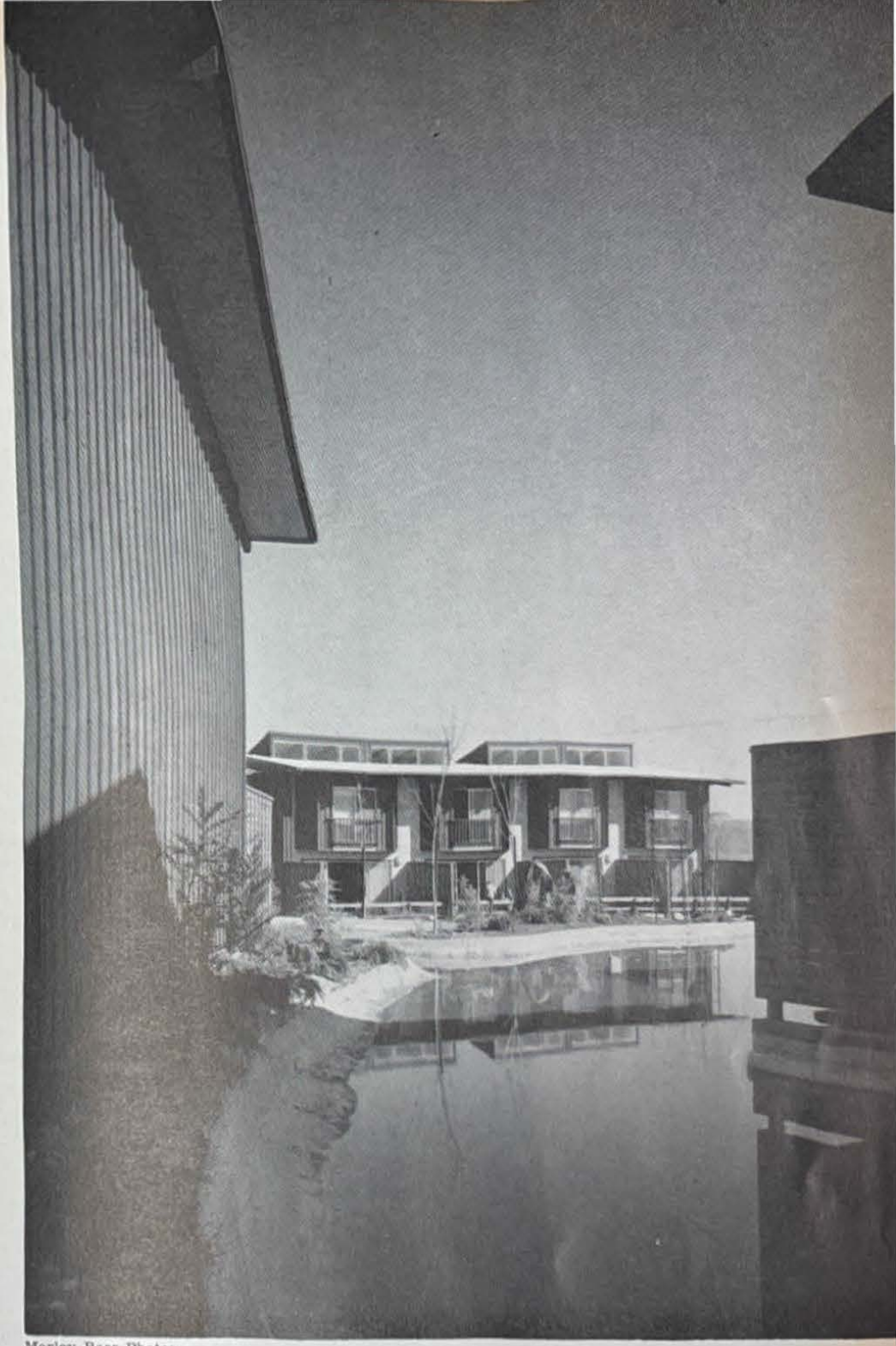
The roof is an X-system of 2x6 framing, walls are rock lath and plaster, cedar and walnut panelling; ceilings are acoustical plaster, floors are vinyl tile and carpeting. The exterior is rough cut Oregon cedar with Hawaiian travertine trim.

While the principal's office has a gratelight luminous ceiling, all other spaces are lighted by fluorescent fixtures delivering 100 foot candles at the working surface. The undulating ceiling places the light level at ideal angle with reference to the drafting tables.

The drafting room is outstanding, with ample work and layback space and full visual windows to the east and the west. All spaces are air conditioned and outfitted with FM speakers.

Approximately 3,000 square feet of area on the main floor serves offices, conference room, waiting room, a 3-hour vault, specification office, display space and rest rooms. The lower floor has two private offices for consulting engineers, coffee room, auxiliary drafting room, storage areas.

The lush Willamette Valley is brought into the offices and working spaces of these inspirational quarters. Interior treatment is simple but pleasant, highlighted by furnishings by Knoll Associates and Herman Miller.



Morley Baer Photos

Rustic Garden Apartments . . . with Lake and Lagoon

VIRGINIA LAKEHILLS
APARTMENTS
Reno, Nevada

Fred Kohlenberg, Owner

Campbell & Wong & Assoc.
Architects

UNIQUE not only for their setting between lake and man-made lagoons, but also because of the excellent interior use of vertical space to give interesting vistas, these apartments are award winners in the 1963 Homes for Better Living Program. From many viewpoints along the lagoon areas there is something Old World and

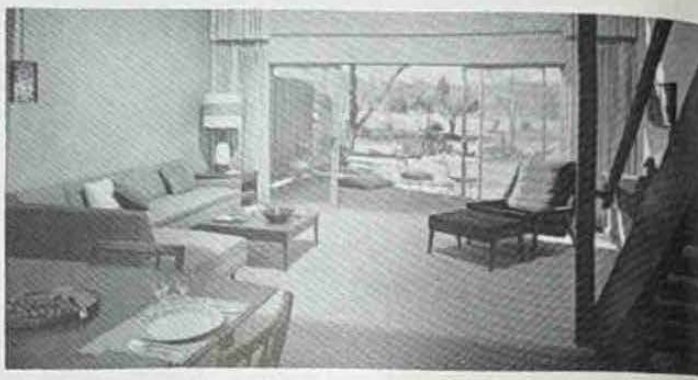
serene about the facades of this very modernday rustic retreat.

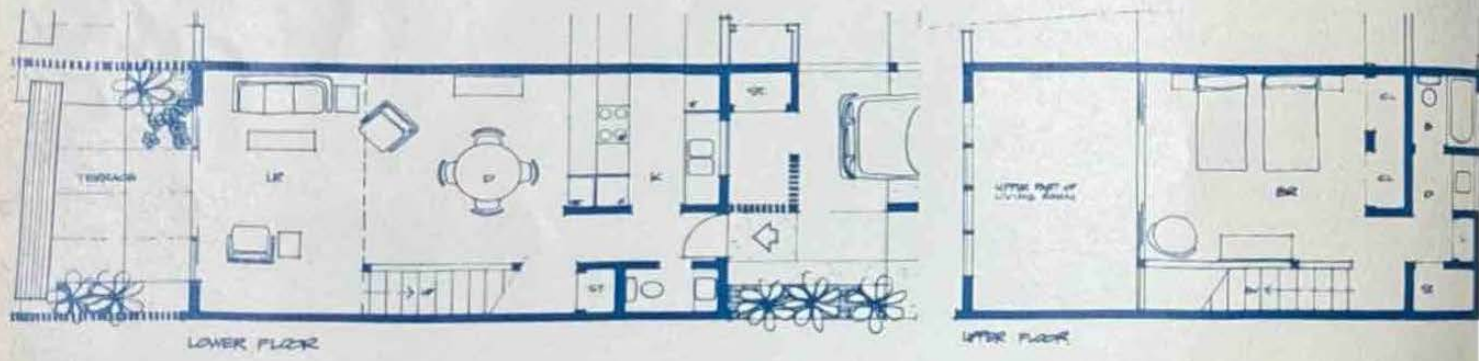
Located on a lake, 14 of the apartments overlook the natural beauty, while 26 more face cascading lagoons created by the builder.

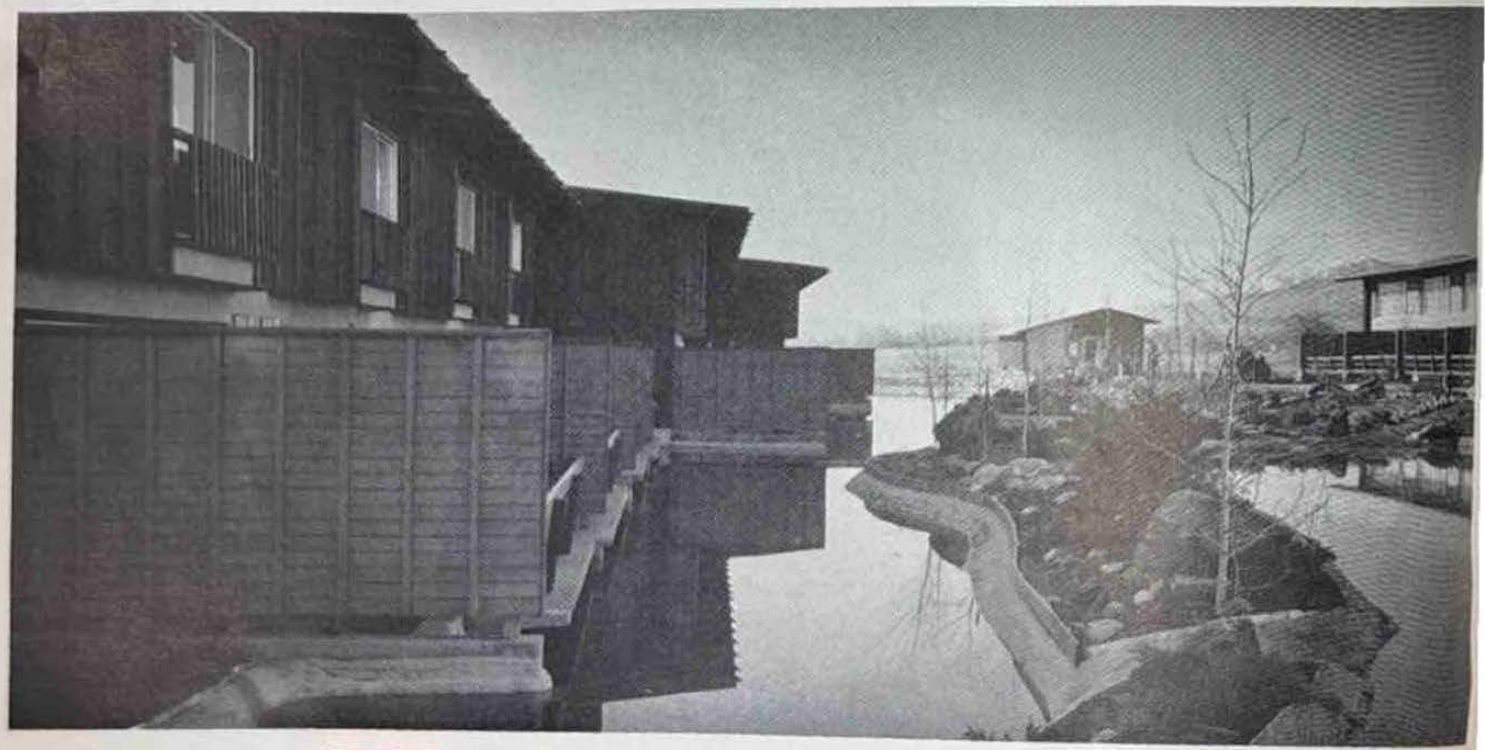
Equal units of one and two bedrooms have attached carports on one side and private deck or patio on the other. Patios overlooking the lake are separated by fences but extend visually to the water over plantings and rock walls. Units on the lagoon side have decks overhanging the water.

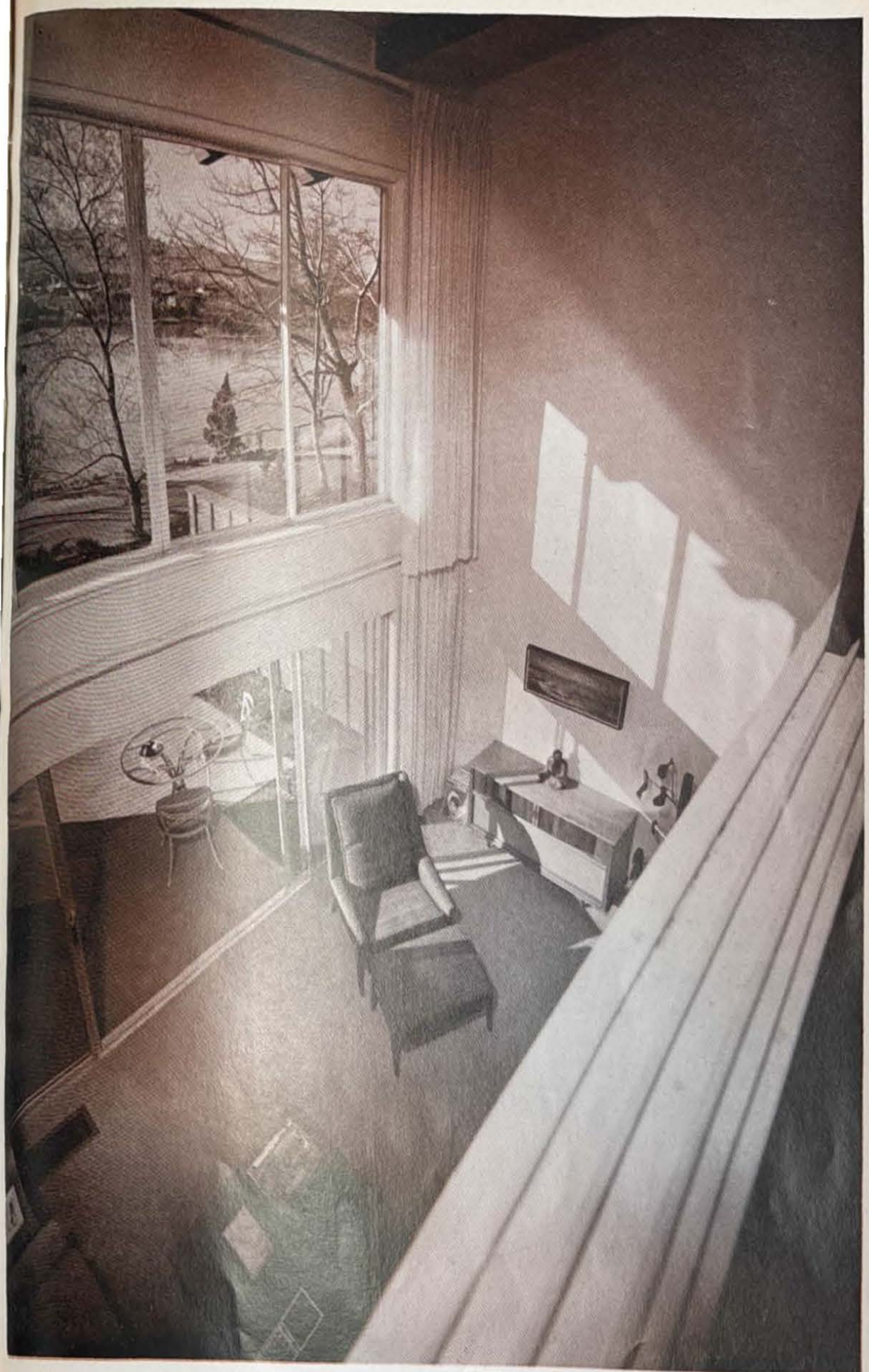
Rough board and batten exterior construction gives a natural, rustic appearance on the "living" sides of the building, merging towards a more business-like stucco facing on the street side. Interior finishes are sheetrock, quarry tile, painted beams and stained T&G roof decking.

Bedrooms are on the second story, reached by open stairs. Two bedroom units have a two-story clerestory-lighted living and dining area, with sliding panels overlooking from the bedrooms above. Dining room floors are warm orange quarry tile. Master bedroom has a bay window with floor to ceiling continental sliding doors accentuating the feeling of outdoor space that is so much the keynote of the project. ■

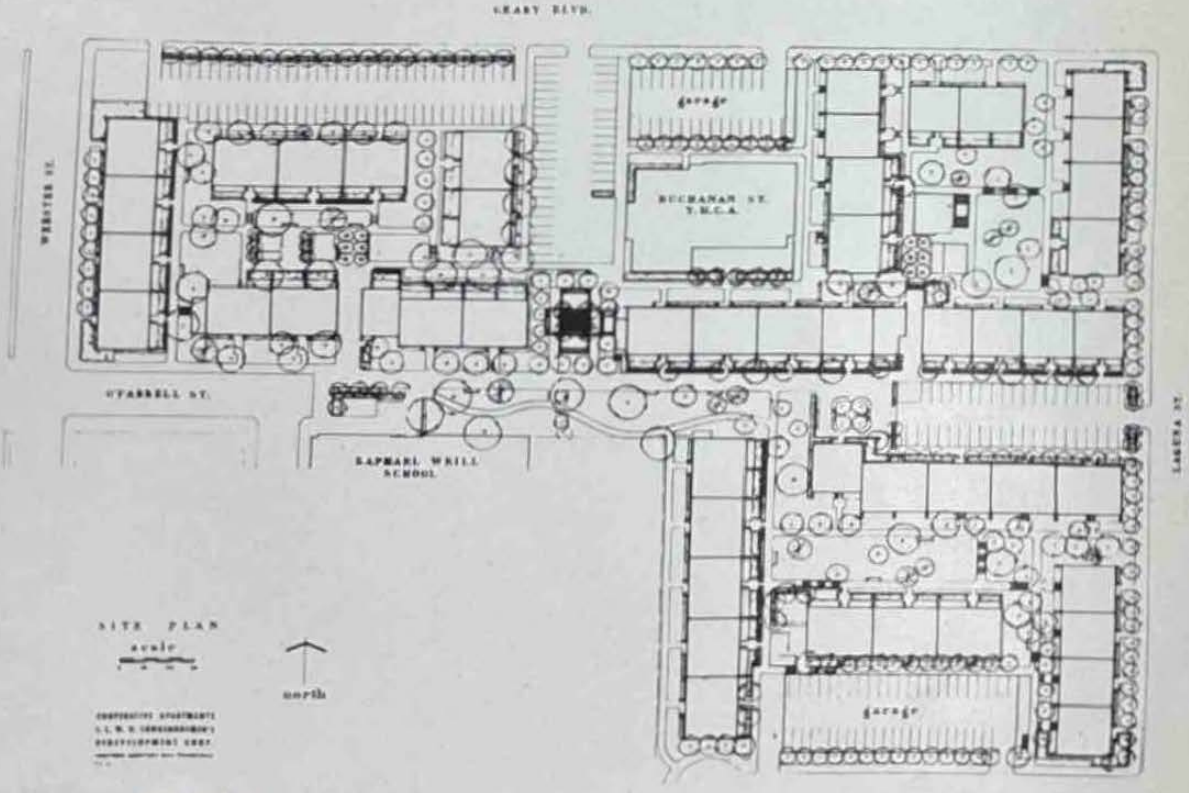








Moderate Cost, Aura of Pleasant Living



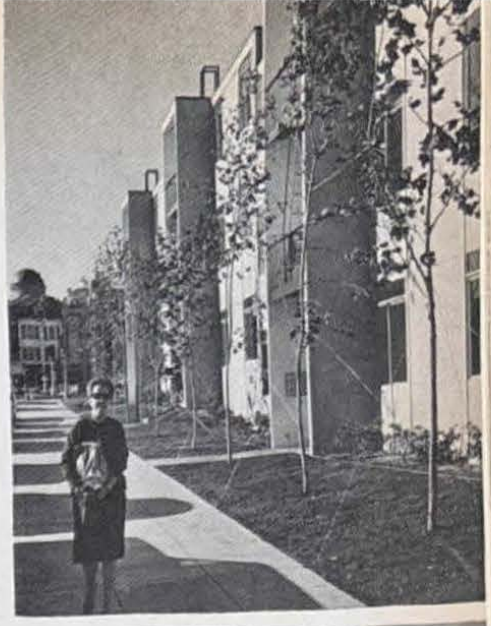
PARK WEST one-to-three bedroom apartments are believed to have the lowest payment price of any in San Francisco's redevelopment areas, yet they have a "mode of living" appeal far beyond their cost.

The project, developed with the Pension Fund jointly administrated by the International Longshoremen's and Warehousemen's Union and the Pacific Maritime Association, established a non-profit corporation to provide moderate cost housing at $11.00 per square foot, eliminating owner's profit and financing under FHA Section 221D3. Apartments are sold as cooperatives for $500 down and $85 per month for one bedroom, and $137 for three bedrooms. Payments include utilities, and the square foot cost includes all site work and landscaping.

The site consists of three city blocks, and it is obvious that much thought went into utilization of the land. The city streets were abandoned within the project, and the buildings were built in a series of six units grouped around a central stair. Parking was provided on the perimeter. Thus a continuous park is enclosed within the project, with sitting and recreation areas, walks and plazas available to all without interference from vehicular traffic.

There are 300 apartments, and yet the complex does not seem massive. The structures are finished in stucco, but with extensive redwood detailing of balconies and patio screens, stairways and fire escapes. Such wooden projections and overhangs bring the facades into more intimate scale.

The project is particularly laudable in that there are no architectural gymnastics to give it "flash", just good relationship of units, good detailing with wood, and intensive landscaping with soon-to-be-large trees to add an aura of domesticity. ■



Karl H. Riek Photos

Architectural Gymnastics

PARK WEST COOPERATIVE APARTMENTS
San Francisco

International Longshoremen's and Warehousemen's Union, Owner

Marquis & Stoller, Architects

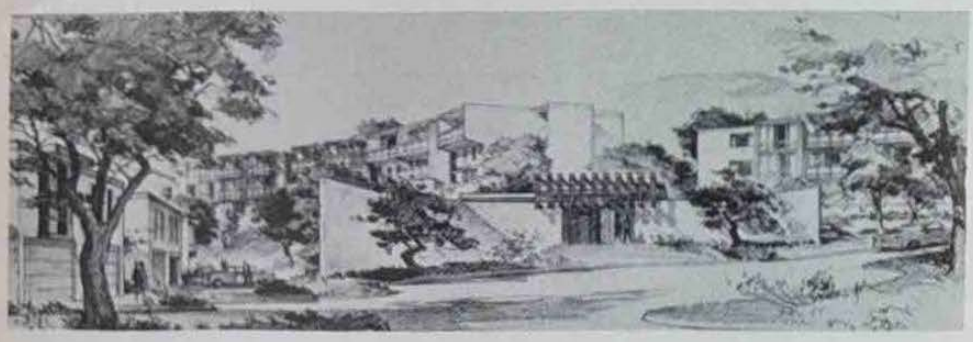
Jack Baskin, general contractor

URBAN LIVING — A CHALLENGE?

IN THE FIRST DECADE following World War II, it was the newly-developing "gracious living in the suburbs" that drew all the attention. Criticism, running the gamut from architects, planners and sociologists to TV comedians, rained down upon the collective head of the developers and those who bought the developers' products.

Spurred on by the all-American dream of having one's own vine-covered cottage (and easy financing), the developments have grown until they are often suburban cities in their own right. Architects have seldom been able to participate actively in decision-making in this field. However, wide publication of architecturally-designed houses in the shelter magazines has effected some secondary benefits, at least, for the speculative house.

The millenium hasn't arrived yet in the suburbs. But as this second decade elapses, it appears that the urban resident may be wallowing in



an even worse environment! Little insight is required to discover that new building in the urban residential field is at a deplorable level. Most of the new apartments possess fewer of the social amenities than those of an older day had as a matter of course. Worst of all is the spate of balcony-egress apartments (the motel-like "rabbit warren") where the view window of the living room is vulnerable to the open corridor serving the entire floor. One could wish that the designers, builders and financiers of these pigeonhole apartments could be sentenced to live in their creations.

This month, ARCHITECTURE/WEST takes up the subject of *Urban Living*. Before and beyond these pages are a number of garden apartments which show concern for privacy, which provide outdoor decks or garden terraces, and which strive for an intimate, non-institutional character. In short, they are designed for *people*.

Urban living as a way of life has a strong tradition in the city of San Francisco. There is every indication that the San Francisco Redevelopment Agency is taking steps to insure the strengthening of that tradition. Few cities in the nation have geared their urban renewal program to equivalent standards of quality.

In accordance with a predetermined overall plan, the Agency gives special weight in negotiations for sale of various parcels to the proposals that will best carry out the over all plan.

Now under way for a revitalized San Francisco are these:

- *Golden Gateway*, the 20-acre residential and commercial development by Perini-San Francisco Associates, designed by five architectural firms led by Wurster, Bernardi & Emmons with DeMars and Reay.
- *Western Addition*, Area 1, of which Park West Cooperative Apartments (ILWU) by architects Marquis & Stoller are shown in this issue.
- *Diamond Heights*: moderate priced housing (Mission Neighborhood centers designed by Neill Smith & Associates, lower photo) with Neighborhood Center adjacent, by Jack Alley Charney AIA & Associates, photo above.
- At the foot of Market Street, the *Ferry Building Park* is being designed by Lawrence Halprin, John S. Bolles and Mario Ciampi, in a joint venture, to create an urban park of about three and one-half acres.
- In some instances, the Agency has designed a commercial facility in anticipation of the sale of the land. Example: an urban design for renewal of the Fillmore commercial district (Reid, Rockwell, Banwell & Taries, architects).

But in some cities the struggle to upgrade the urban environment is rough going. In Albuquerque, the local division of the New Mexico Chapter, AIA, is sponsoring a downtown planning committee to act in a technical advisory capacity to the city's planning department. However, architect Max Flatow paints a bleak picture of what lies ahead for the committee: "Albuquerque is unique among cities I've known in

continued on page 25

Architects' Guide to

KILN-DRIED WOOD PRODUCTS

the importance of Kiln-Drying, relative costs, positive identification

● Increasing numbers of architects and specifiers are including moisture content limitations in their wood product specifications. They have discovered how essential moisture control is to the performance of wood products, and how essential Kiln-Dried seasoning is to the proper reduction of moisture in wood.

This guide contains factual data describing Kiln-Drying and outlines many benefits gained through Kiln-Dried seasoning.

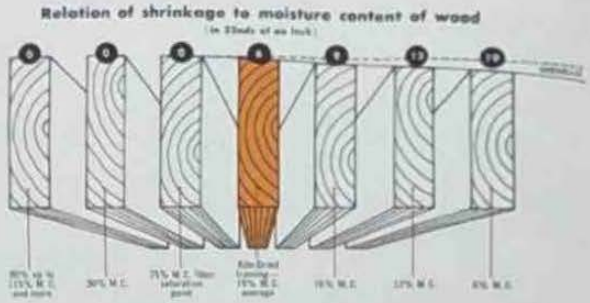
Weyerhaeuser Company
Wood Products Division

Moisture level control is vital to wood product performance

Water is the primary life source of the tree. Water is also the primary cause of instability and deficiency in wood products, unless removed exactingly and evenly to specified levels.

As lumber dries, water evacuates in two stages. (1) "Free water" evaporates from the wood cells; (2) "Bound water" is extracted from the wood cell walls. The point at which all "free water" has been removed and only "bound water" remains is termed the fiber saturation point, generally 25% moisture content for most wood species.

This is the critical point in drying wood. All wood should be expertly and scientifically Kiln-Dried when moisture is reduced below this point, for it is at the



fiber saturation point that shrinkage begins. Unless the drying temperature and relative humidity are precisely controlled during shrinkage, instabilities and deficiencies such as warping, splitting, checking, cell collapsing and other harmful effects of uncontrolled drying generally occur.

Only Kiln-Dried wood products

GREATER STRENGTH

The hard, tight cellular structure of Kiln-Dried wood products means greater strength and stiffness, better overall performance.

9% Greater load without deflection

10% Greater load without splitting

22% Greater load without breaking

32% Greater load without crushing

The Forest Products Laboratory reports the above performances of Kiln-Dried dimension lumber as compared to unseasoned lumber. Further investigation proved that "panels made by nailing green lumber to a frame and allowed to season one month before testing were half as rigid as similar panels made of seasoned lumber and tested immediately. Tests show that a box nailed in green condition, dried in storage 45 days and tested at 10% moisture content may have only one-fourth the strength as when made from dry lumber."

It is interesting to note that, in addition to increasing strength, Kiln-Drying also decreases the weight of wood. The result—an ideal combination of great strength with light weight.

GREATER STABILITY

Kiln-Drying is the one consistent seasoning process that effectively controls the major causes of instabilities (moisture and shrinkage) in wood. Thus, Kiln-Dried products assure superior dimensional stability in use . . . products that remain straight, true and level in any structure or application.

UNIFORM SIZES

All Weyerhaeuser Kiln-Dried wood products are machine surfaced and squared to exact size *after* drying . . . *after* completing the shrinking process. Because unseasoned lumber has not yet made its moisture content adjustment, sizes of individual pieces will vary considerably from specified surface dimensions as moisture leaves. You can be certain you are receiving correct sizes as specified with Kiln-Dried.

CONSISTENT GRADES

The same procedures that make uniform sizing possible are applied in producing consistent grades. All Weyerhaeuser Kiln-Dried wood products are graded *after* seasoning. Any defects that may occur during the drying process are "graded out" at the mill. The grade that is specified is the grade received and used throughout construction. Chances of down-grading during and after construction are eliminated.

Air Seasoning and Construction Drying

● *Air Seasoning* is the removal of wood's moisture by natural evaporation. Lumber is stacked in the open or in unheated sheds, layer upon layer, so that air may circulate over all surfaces. Moisture control is left to the ever changing atmosphere. Obviously, "outside" atmosphere cannot be controlled, therefore, seasoning wood in this manner often results in unevenly cured lumber and unstable products.

Construction Drying–allowing unseasoned framing members to "dry-out" within the framework of a structure, ignores all principles of sound construction and invites defects in the finished structure. Sticking windows and doors, plaster cracks, uneven walls and ceilings and other defects can usually be traced to framing members that were *construction dried*.

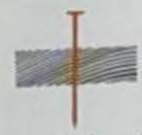
Controlled Kiln-Drying

● The place to properly season wood products is at the manufacturing plant, where large kilns and trained, experienced technicians put decades of scientific research and development to work. There, lumber is cured under controlled temperature and relative humidity schedules. Each kiln "charge" is patiently checked as moisture content is reduced, evenly and uniformly in each board. Maximum quality performance is assured every product as its moisture content is reduced to specific levels: 19% for dimension lumber, 12% for finish and other high graded products.

Thus, by scientific Kiln-Drying, quality wood products emerge, strengthened and stabilized. You can be sure Weyerhaeuser products will meet the performance and appearance standards called for by grade.

offer these important benefits...

GREATER NAIL HOLDING POWER



Kiln-Dried lumber holds nails more firmly, grips them tighter, because wood cells are constricted and tempered by factory pre-seasoning. This is a key factor to the structural strength of a building, as joints are only as strong as the holding power of the nails that join them. With unseasoned lumber, the gripping power on nails tends to decrease as normal shrinkage occurs, thus making joints more susceptible to failure.

HIGHER RESISTANCE TO DECAY

Kiln-Drying removes the danger of sap stain and decreases susceptibility to other decay influences.

Sap stain is a fungus infection which can develop in unseasoned lumber. It increases water absorbency in wood and creates conditions favorable to decay.

TIGHT, SOUND STRUCTURES

The many benefits of Kiln-Dried wood products add up to dependable, quality construction in framing lumber and lasting durability in decorative wood products. There is no substitute protection for the soundness of a home, institution or commercial structure . . . from sills to rafters, from siding to paneling. Greater strength, stability, nail holding power, decay resistance, size uniformity and grade consistency are yours in wood products by adding "K-D" to your specifications.

EXTRA INVESTMENT MORE THAN OFFSET BY LOWER IN-PLACE COSTS

As with any premium building material, you would expect to pay more for the extra value gained through Kiln-Drying. Yet, this increase is unbelievably slight, and only on the initial investment.

The added cost for Kiln-Dried wood products is only a *fraction of one percent* of overall value. For example, Kiln-Dried studs cost roughly $6.00 to $7.00 more per thousand board feet than unseasoned studs. For larger members, this increase might represent about $12.00 mbf. By comparison, the cost of an unseasoned stud is approximately 65 cents, a Kiln-Dried stud between 67 cents and 68 cents . . . a difference of less than 3 cents.

These are *initial* costs. When extended to include *in-place* costs, including trim waste, falldown of grade and "call-back" replacements or repairs associated with unseasoned framing, Kiln-Dried lumber becomes far more economical.

Much has been written about the "penny-wise, pound-foolish" specifier or user who would waste 10-cents-a-minute time on unseasoned lumber to save 3 cents a stud. If an unseasoned stud causes drywall finisher, carpenter or anyone on the job to waste even 20 seconds, the unseasoned stud becomes more expensive than a K-D stud.

In cost analysis, as in all qualities of performance, properly Kiln-Dried wood products have no peer.

Weyerhaeuser

KILN-DRIED WOOD PRODUCTS

Visible proof of

KILN-DRIED QUALITY

Weyerhaeuser was the first wood products manufacturer to provide visible proof of Kiln-Dried quality. The system of edge or end marking assures your clients that they are receiving the quality standards called for in your specification.

For example, a floor joist "spec" for a residence might well read as follows: "2 x 10, 16' Const., W. C. Rules #15, Douglas Fir or W. C. Hemlock, S4S, K. D. to average moisture content of 19% as manufactured by Weyerhaeuser or equivalent."

K-D DIMENSION AND BOARDS

The words "Weyerhaeuser . . . 4-SQUARE . . . Kiln-Dried" are stamped on one edge of all Kiln-Dried common dimension and boards. A golden end-seal further identifies all 1 and 2 inch lumber.

K-D BEVEL SIDING

All Weyerhaeuser Kiln-Dried Bevel Siding is lap-marked with the words "Weyerhaeuser . . . 4-SQUARE . . . Kiln-Dried." The bottom edge of the Weyerhaeuser trademark is positioned 1" below the lap edge of the siding, providing a perfect guide for fast, time-saving application in conformance with FHA lapping standards.

OTHER QUALITY K-D PRODUCTS

Weyerhaeuser manufactures a complete line of Kiln-Dried wood products, including paneling, finish, trim, baseboards, moldings and door jamb sets.

FOR COMPLETE SERVICE AND ADDITIONAL INFORMATION, PLEASE CONTACT YOUR **Weyerhaeuser** REPRESENTATIVE AT THE AREA OFFICE NEAREST YOU

ATLANTA—1545 Marietta Blvd. N. W.
Atlanta 18, Georgia

BALTIMORE—P. O. Box 2736
Baltimore 25, Maryland

BOSTON—Castle Island Terminal
South Boston 27, Mass.

BUFFALO—1800 Broadway
Buffalo 12, New York

CHARLOTTE—201 East 28th St.
Charlotte 1, North Carolina

CHICAGO—3820 North Carnation
Franklin Park, Illinois

CLEVELAND—6599 Granger Road
Cleveland 31, Ohio

DALLAS—703 Thomas Building
Dallas 2, Texas

DENVER—2765 South Colorado Blvd.
Denver 22, Colorado

DETROIT—13500 Rotunda Drive
Dearborn, Michigan

KANSAS CITY—2108 West 75th St. Bldg.
Prairie Village, Kansas

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LOUISVILLE—1360 Durrett Lane
Louisville 13, Kentucky

MEMPHIS—2790 Broad Avenue
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Weyerhaeuser Co[illegible] Wood Products Division • Tacoma 1, Washington

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continued from page 20

that it has no downtown leadership". A supervisor of the city's building department agreed that "downtown needs a tall man who casts a long shadow" if it is to be redeveloped under a master plan.

—A.O.B.

And on this challenge, we quote excerpts from an informal discussion by Lewis Mumford on the occasion of a visit to Santa Fe, New Mexico in April 1962, published as "Conversations in Santa Fe" in the New Mexico Architect:

Lewis Mumford: *Vision of What Might Be*

The most educative thing for any community is to have a vision of what might be. That was the great thing that Daniel Burnham gave Chicago. I'm a severe critic of Burnham's plan—I feel that he neglected very important elements in the community's life and that these original defects will remain in Chicago for a long time. But he gave his fellow-citizens a vision. It was a partial vision but a splendid one, and it changed the quality of life in Chicago, for the lake front is a great piece of coherent and admirable planning.

Now the main thing in education is to have people with vision. I remember very well an interview I had - a very brief one - with an elder in one of the really successful Utopian communities in this country, the Amana community in Iowa. I was complimenting him on the extraordinary nature of the community—it is a balanced agricultural community consisting of six villages. For the most of a century they led a very prosperous industrial and agricultural life; the whole layout was admirable, but by the mid nineteen-forties it was obviously going to seed. I asked him how this had happened and he said, "It's very simple. We have had no leader with inspiration for the last 50 years."

The thing that really makes a difference in a community are people of courage and vision who aren't merely preoccupied with keeping the community running. We all have to do our share in keeping it running. But you must have a few people who have some sense of what the community might be.

The ordinary man doesn't have it. Don't ask him what sort of a house he would like to live in. He doesn't know. He will accept the one that you give him. Don't ask him what sort of a city he'd like to live in. The one he's been living in all the time seems normal to him and he'll accept its worst features as inevitable consequences of progress and the worse they are, the more progressive they seem to him!

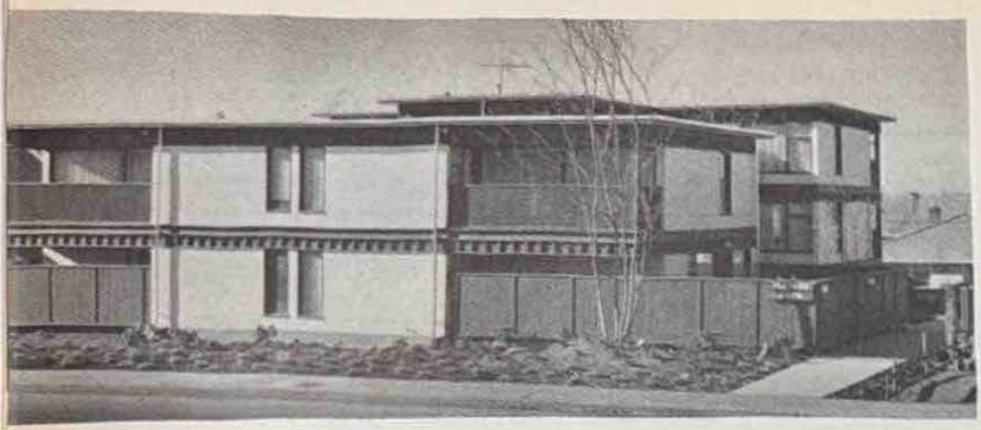
Therefore, the really important purpose of education is to give people a sense of alternatives,—a realization that they're not condemned to the kind of half-life that they now live from day to day. But there are many improvements that are available, from the better arrangement of the rooms in his house to the better grouping of houses in a neighborhood community, to the better relation of a group of neighborhoods to the city itself with all that that implies.

The real weakness in every American city—I'm not just talking about Santa Fe—has been lack of sufficient boldness of imagination about human beings. About mechanical things we have endless resources, endless willingness to experiment and to use imagination especially if the product will sell. But as far as improving our community goes, we're back in the Stone Ages. We need much greater inventiveness, much greater imagination, and a greater willingness to entertain fresh ideas than we have. Once this is implanted in a community a great deal can be done that wasn't possible before.

I speak from the experience that England had in building its New Towns. Half a century ago—sixty years, now—an Englishman named Ebenezer Howard had a conception of a new kind of town which would marry argriculture to industry, town life to rural life. He called this the Garden City. And this solitary Englishman gave a picture of a possible life so attractive that he actually got people to invest money in it. The first of the new towns was built in Letchworth, beginning in 1904. This was successful enough, not as successful as he hoped, but successful enough to permit him to start another one after the First World War. After the Second World War, as a consequence of Howard's vision spreading among the people in England and among all parties, fifteen new towns, which eventually will hold a population of a million people, were built.

We need more of that sort of thing and less conformity, less acquiescence, government regulations, less grabbing for money as in the case of F.H.A. loans or most of the federal highway and urban renewal projects. There ought to be much more municipal and state initiative than there is. We wait around apathetically until the money begins to pour in from Washington; whereas every state could do much more for itself than it dreams possible of doing now, if it spent its money on the right things and didn't waste its money on things which were relatively useless.

(Permission has been courteously given for reprinting of this portion of Mr. Mumford's discussion in Architecture/West by the editors of NMA.)



ALLISON APARTMENTS
Seattle, Washington

A. O. Bumgardner & Partners
Architects

E. C. Brunberg
General Contractor

Robert W. Chittock
Landscape Architect

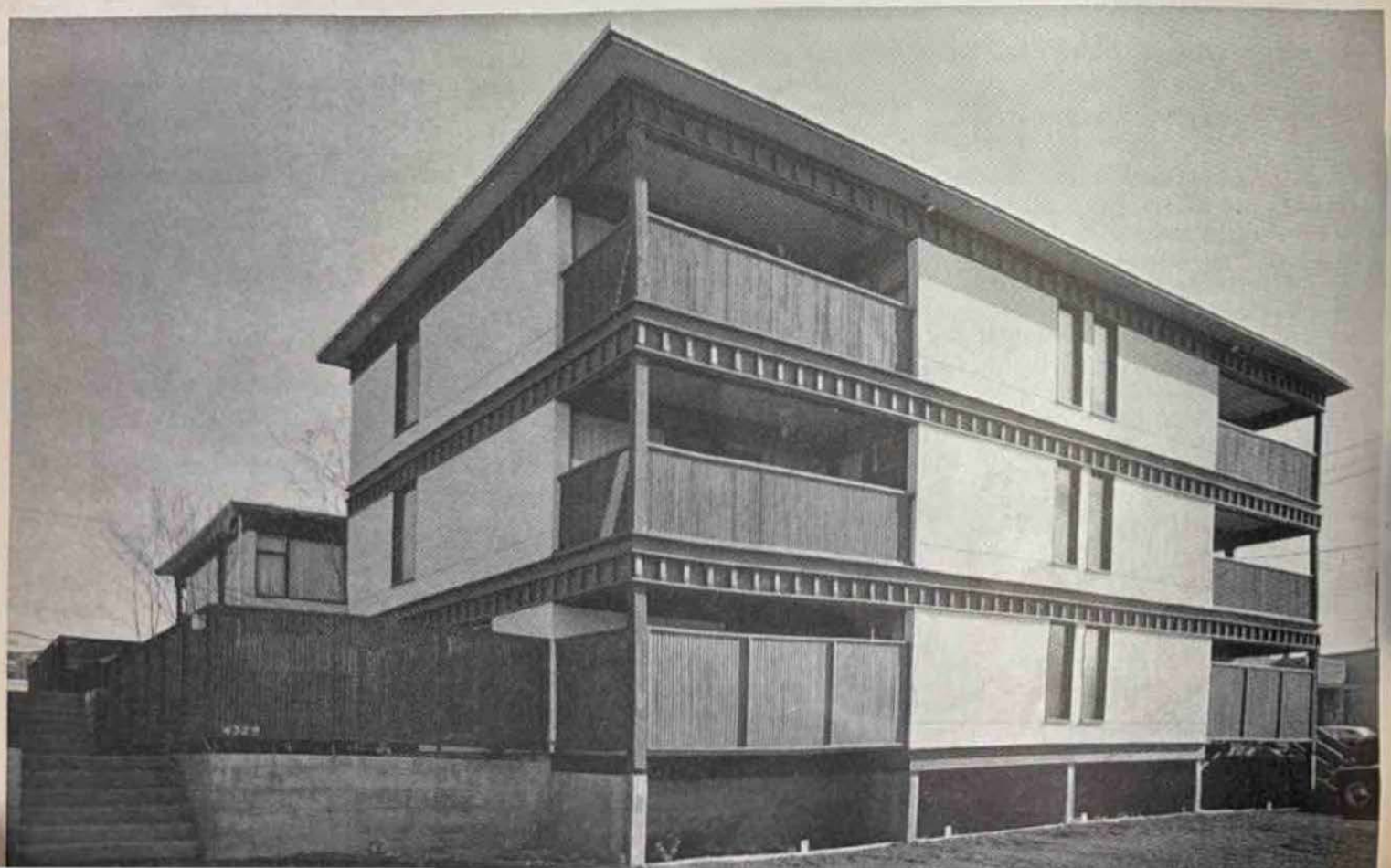
Privacy and Spaciousness in Compact Split Level

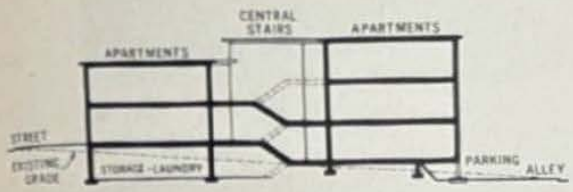
THE SPLIT LEVEL CONCEPT of this hillside apartment resulted in economic use of land, gave more than the usual amount of privacy and thus showed only 12 days vacancy in one year for all 10 units. The building was a winner in the Washington State Chapter AIA honor awards program of 1960.

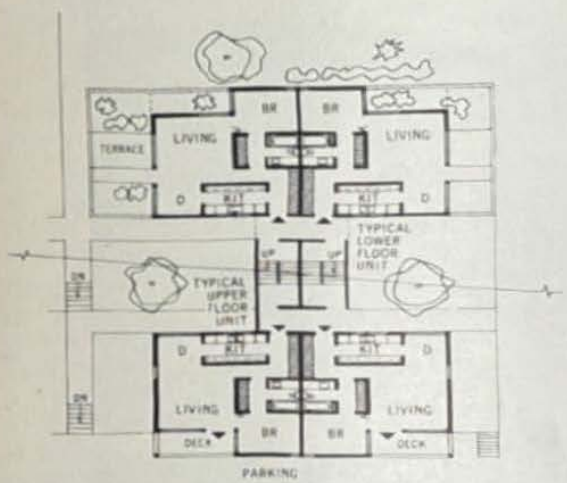
Four apartments are contained in a two-story wing facing a main thoroughfare on the upper end of the lot. Six units are housed in three stories at the lower end, and the two portions linked by an enclosed stairway.

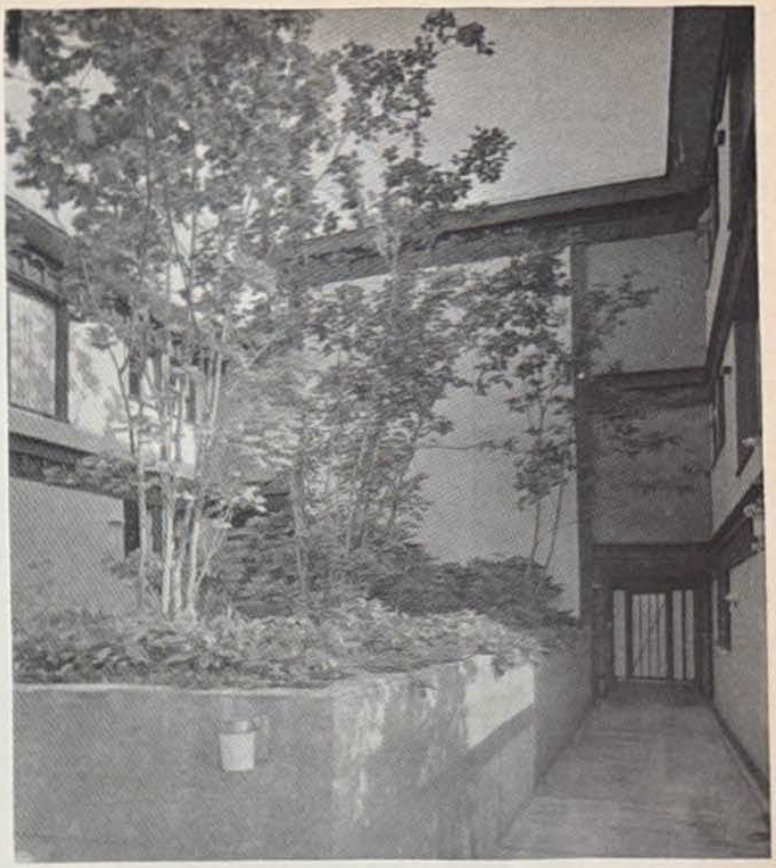
The exterior is squarish and orderly, depending on color contrast for visual impact as white Oriental exterior stucco meets black-brown stained trim, privacy railings and fences.

Interior room division strives for spaciousness. A door high kitchen enclosure allows an unbroken expanse of ceiling over living room, dining room and kitchen. Window walls that look out on planted balconies (bordered by privacy screens) and with the tips of taller trees in a carefully planned landscaping effect visible beyond the balconies, give the city dwellers a welcome touch of suburban atmosphere. ■

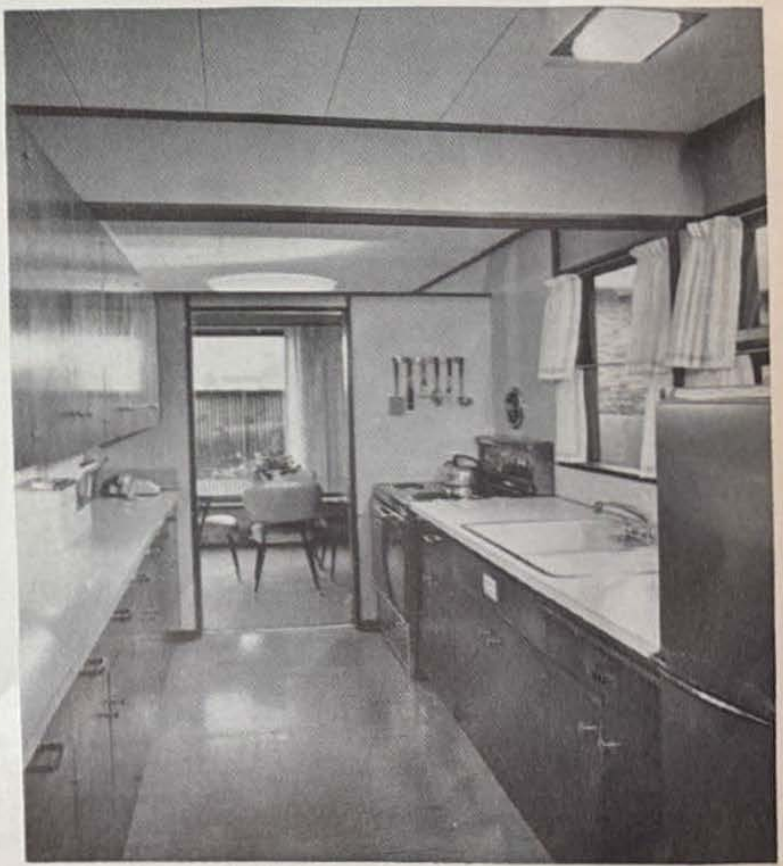




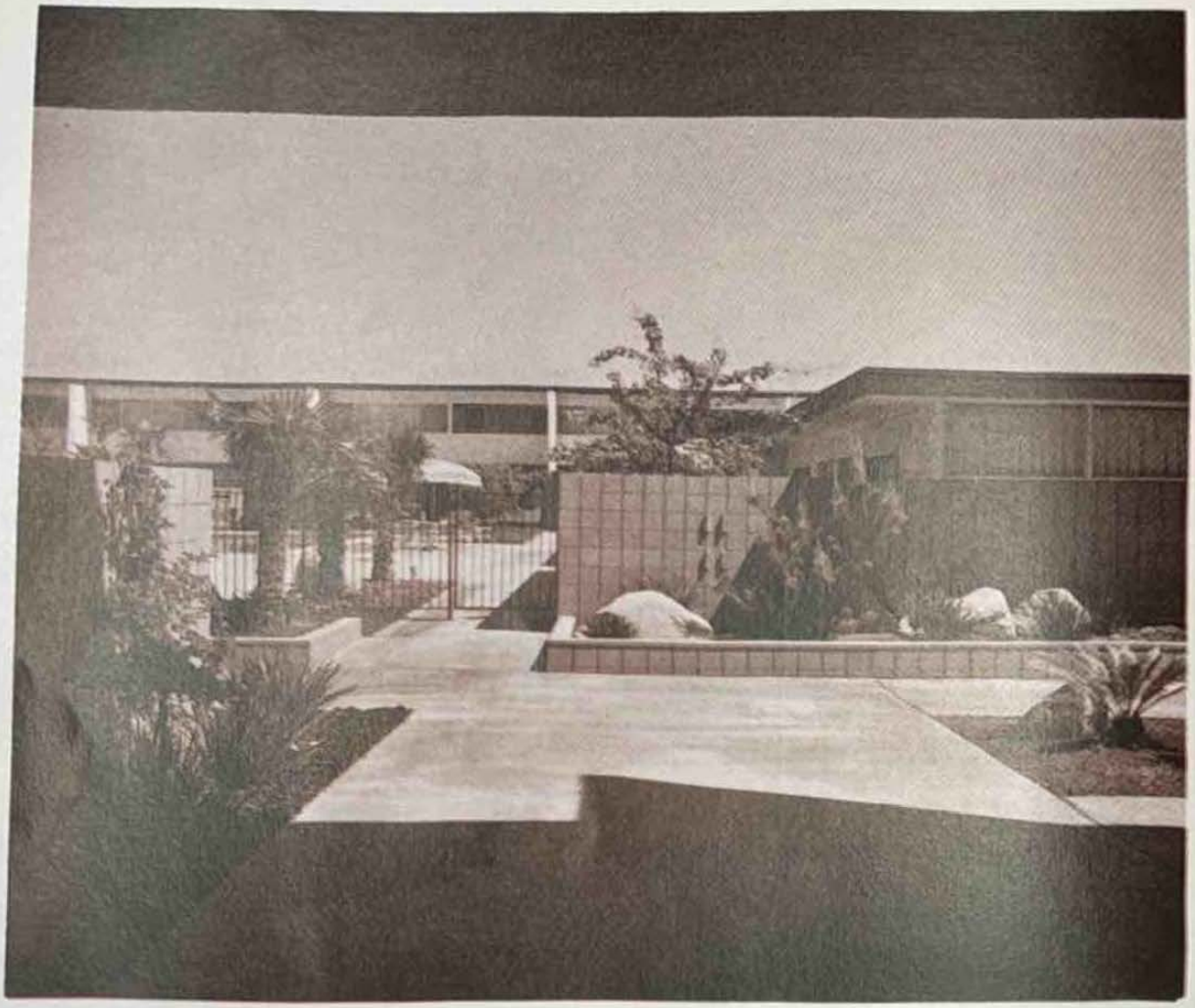




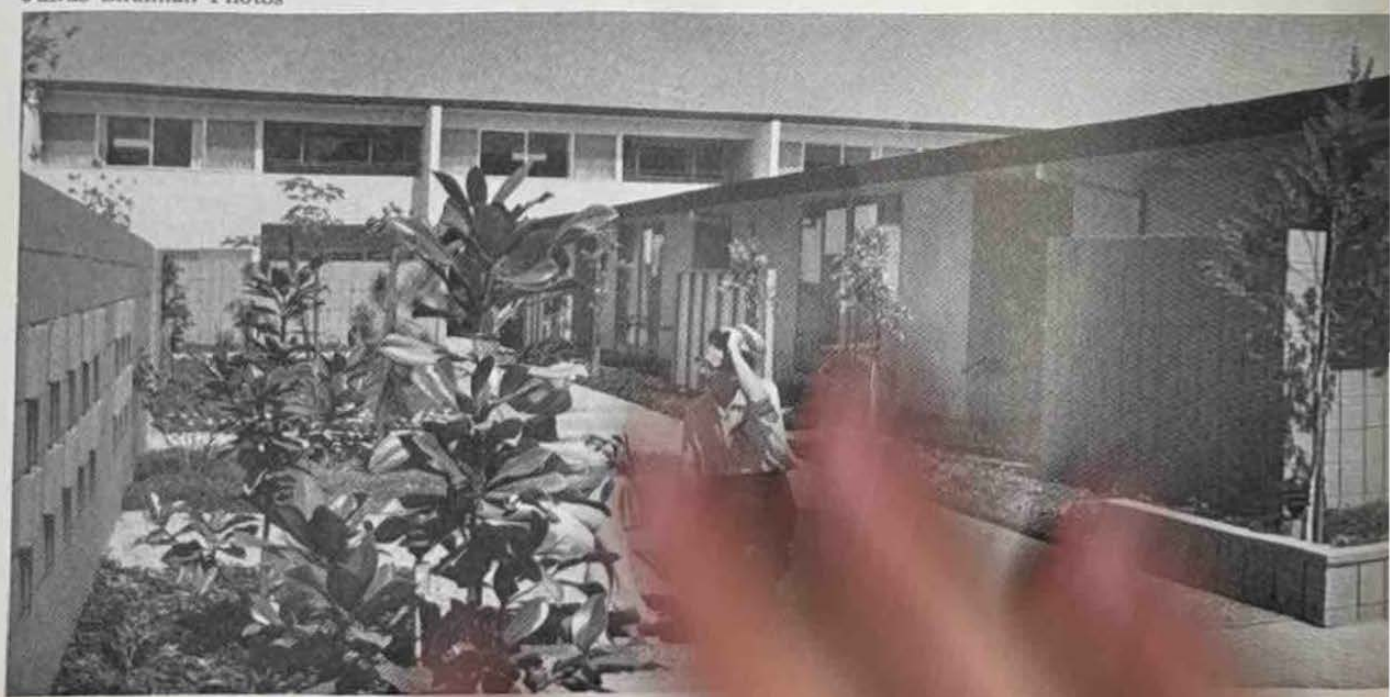
Charles R. Pearson Photos



Just Studs, Plaster and Blocks . . . Site Planning M



Julius Shulman Photos



Difference

NORMALLY CONVENTIONAL and prosaic construction methods and materials have been arranged here in such manner as to provide highly interesting and liveable apartment quarters within stringent economic limitations.

The area is one of flash expansion, surrounded by countless mass housing projects and minimum shelter apartment ventures. The architect for this apartment complex was asked to go many steps further without letting costs get out of hand. He was to create a pattern that allowed for the privacy, outdoor living and amenities that go with a private home, yet to achieve the density that was required for economic reasons.

Thus an area of 10½ acres is being developed in one, two and three-story buildings having flats and studios of one, two and three bedrooms with the necessary parking and with good spaces of walled patios, plantings and poolside recreation facilities.

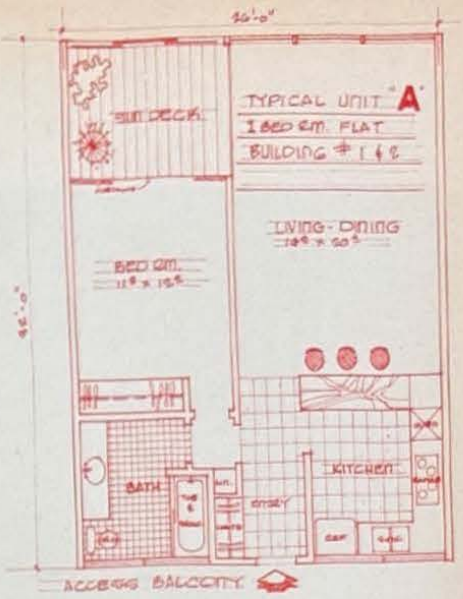
Construction is conventional stud, plaster and stucco except for the one-story flats in which enclosing patio walls of concrete block carry through into the buildings themselves, yet the result is an appearance of good living far beyond the cost. ■

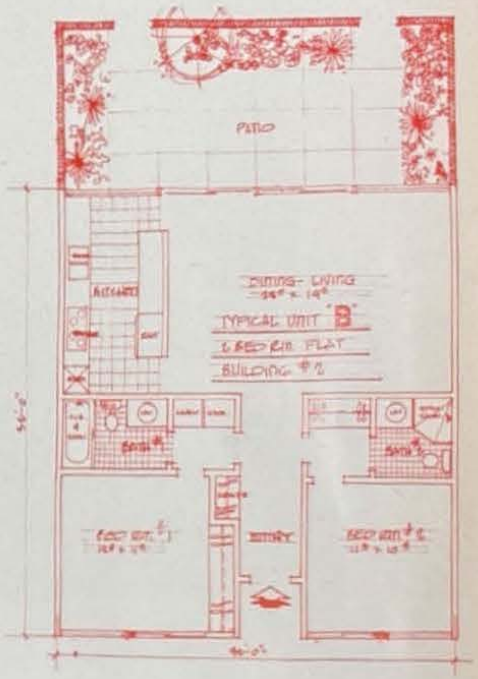
Homes for Better Living Award 1963

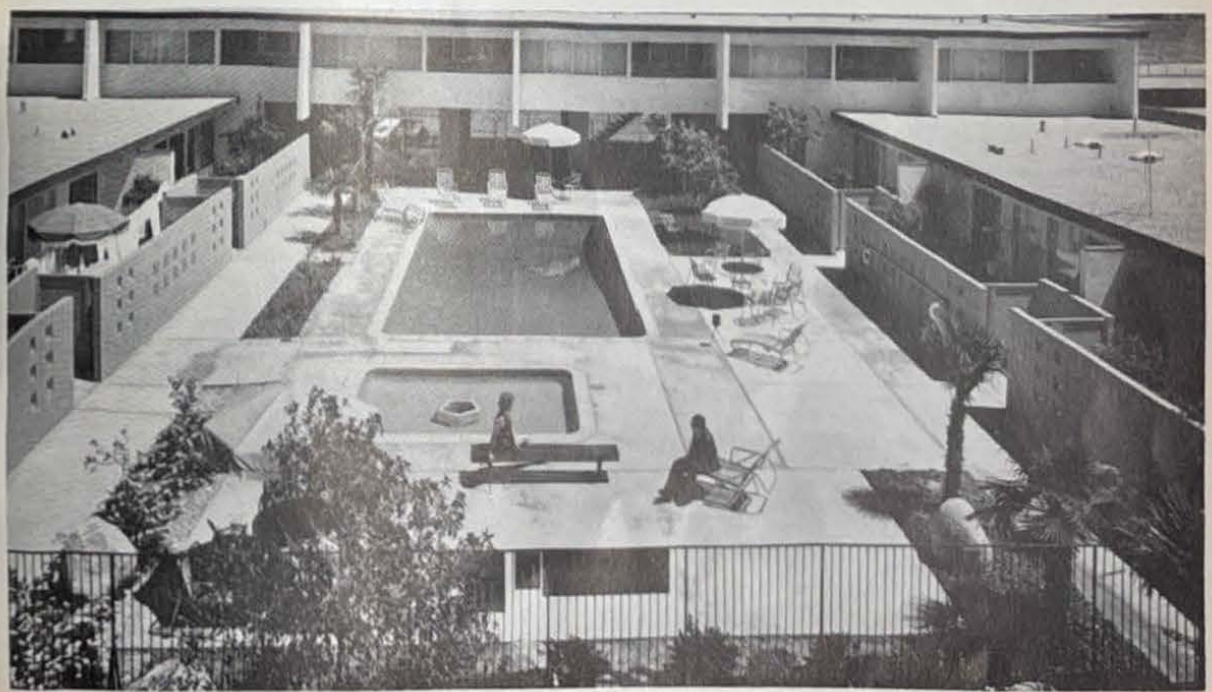
APARTMENTS
Anaheim, California

Providence Farming Co.
Owner

Carl Maston, Architect







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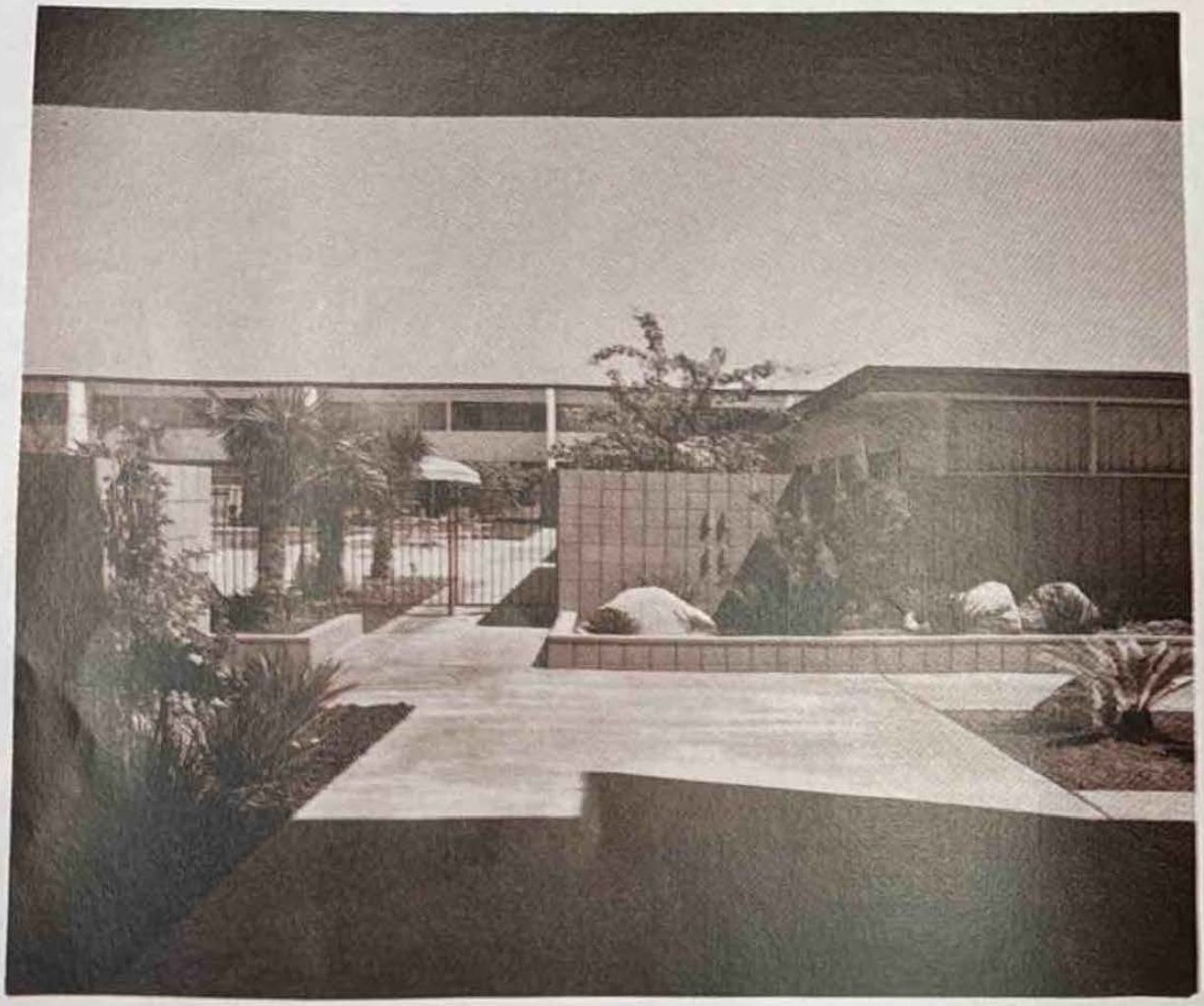
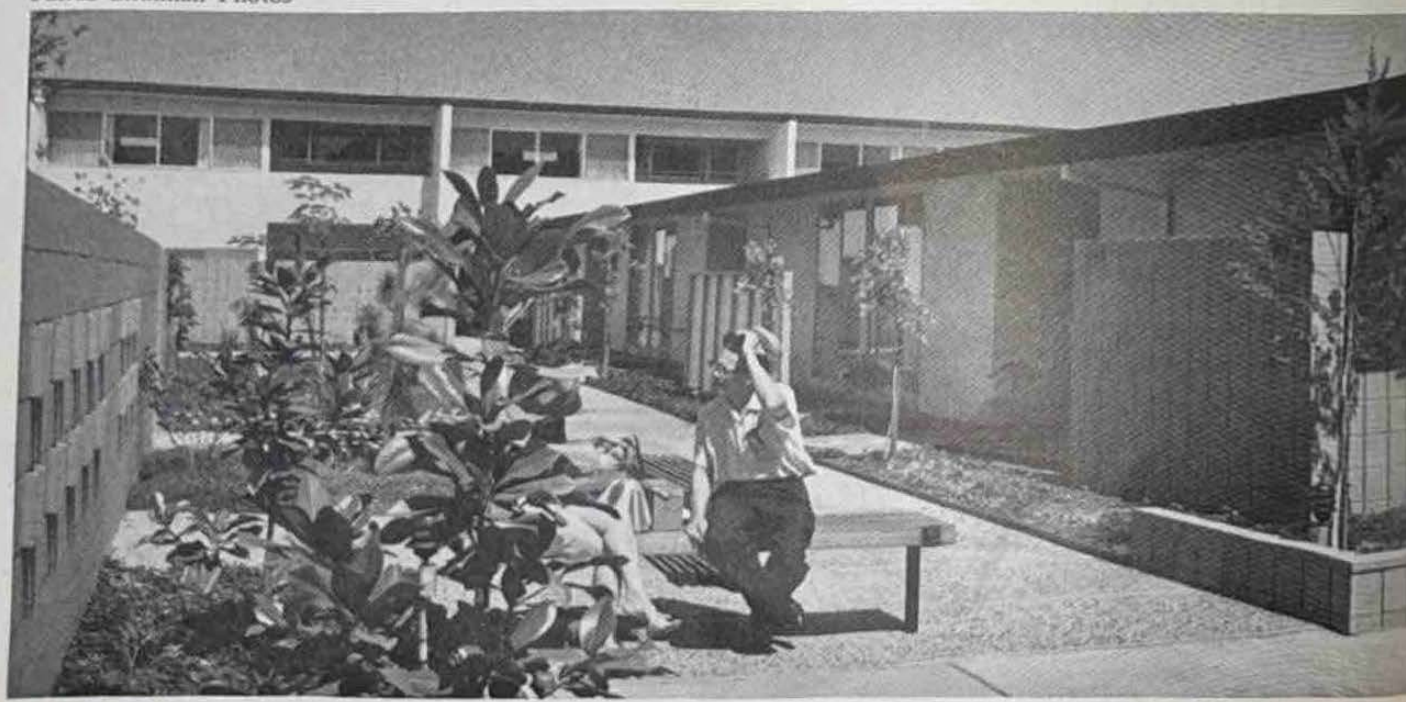


Julius Shulman Photos



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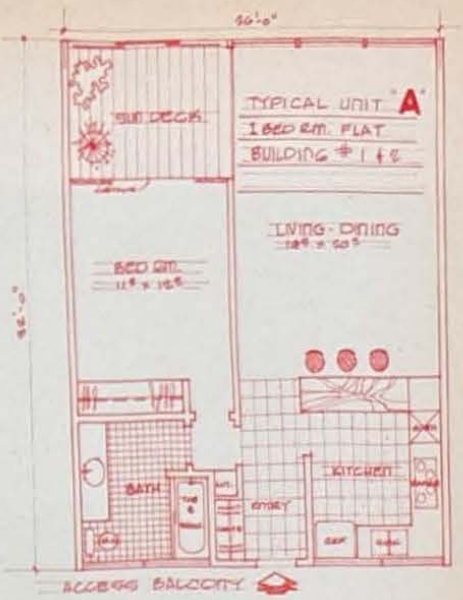
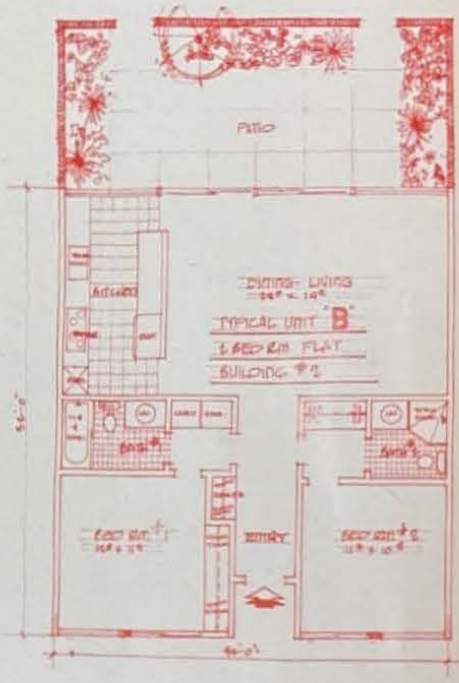
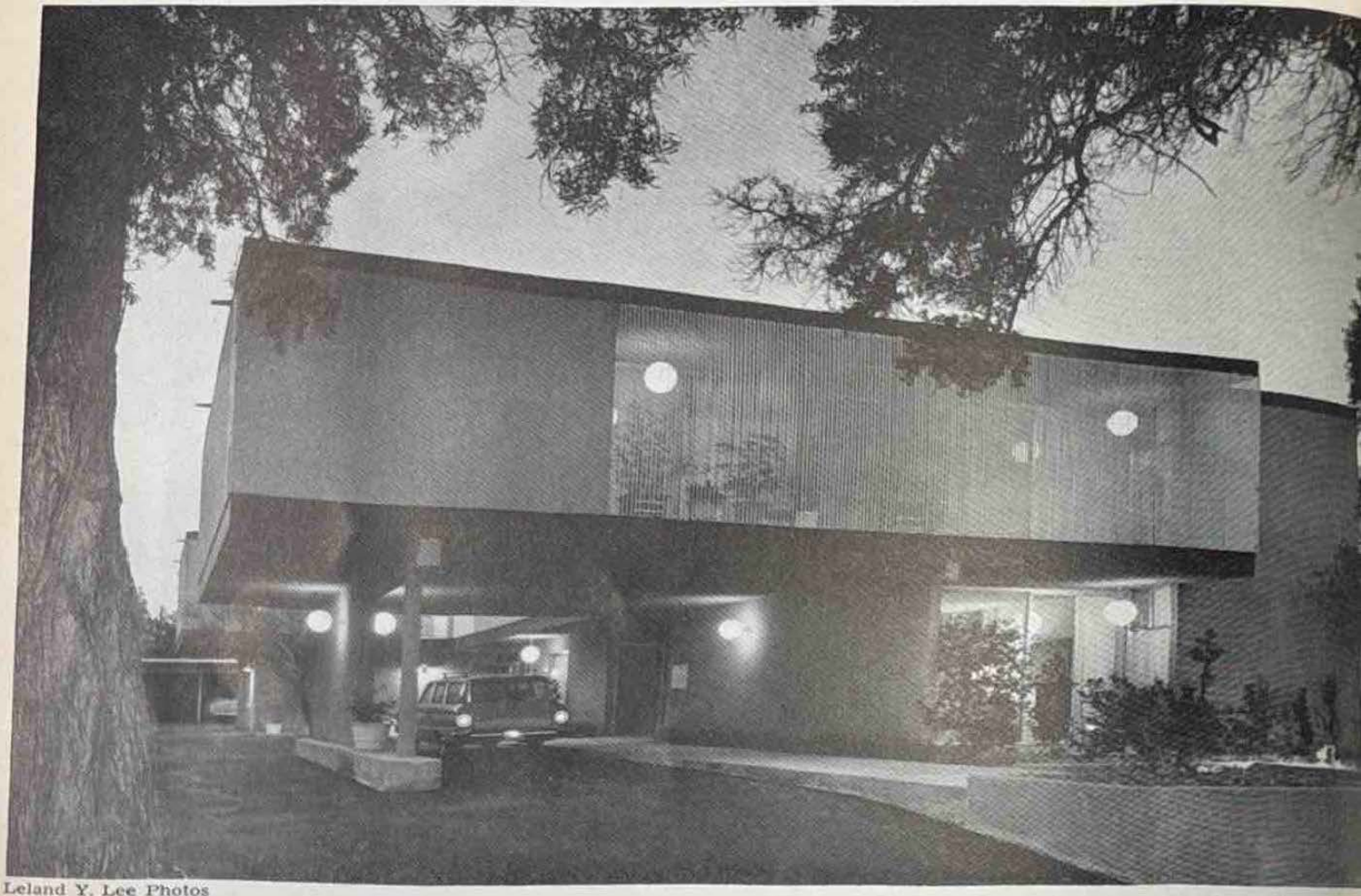




"Tree-House Effect" Le



Leland Y. Lee Photos

In an area where most apartment buildings are ornamented within an inch of the yield point, this building is notable for its restraint in variety of materials and colors. It is a clean, rectangular stucco building pleasingly elevated like a tree house on columns and bearing walls, relieved by round hanging lights both inside and out and with the landscaping of tall, lacy trees in the garden court.

The units are not large—there are eight apartments of 675 square feet each—but they seem larger than they are simply because there has been strategic placement of small landscaped courts for each ground floor unit, and corresponding enclosed and roofed balconies for the second floor units. Pictures at the right demonstrate this effect. Taken from opposite ends of the space, one looks out towards a balcony through a sliding glass door and to a simple steel grille at the end of the balcony. The other looks inward from the balcony across the living room.

The grille, effective from inside, is still more effective in adding interest to the otherwise blank stucco wall of the exterior facade.

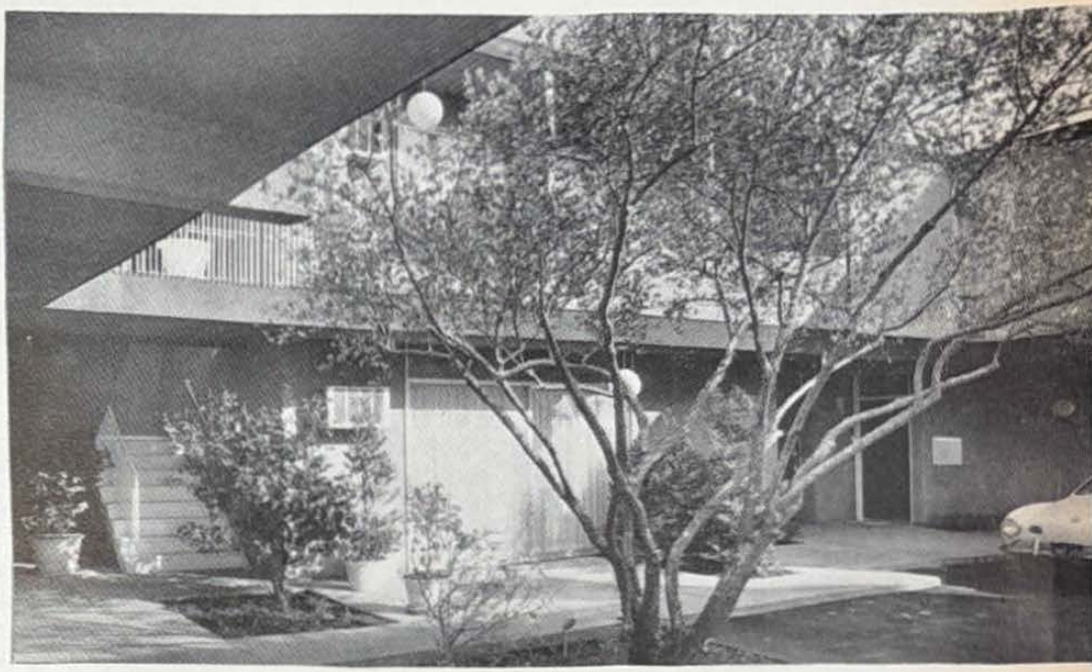
Interior treatment is standard and simple—acoustical plaster ceiling, some hardwood paneling and some painted gypsum walls. Decorating and furnishing in good quality Danish furniture lend the added touch to straightforward architecture that has held vacancies to nil. This was a 1963 Homes for Better Living honor winner.

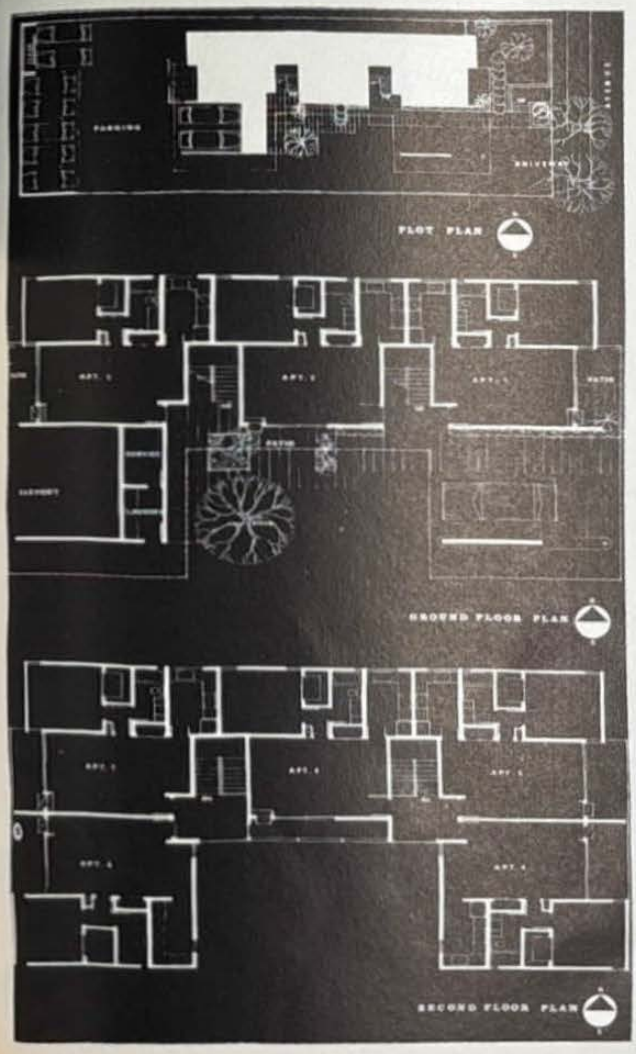
gination to Otherwise Straightforward Design

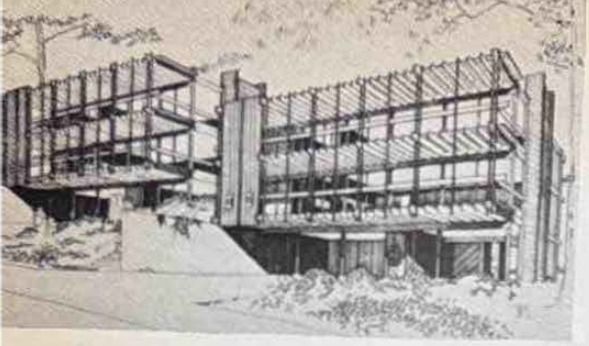
MITCHELL APARTMENTS
Pasadena, California

Tryon and Foy, architects

Colletta & Edgley,
general contractors







URBAN LIVING — *Five Western Expressions*

URBAN LIVING takes many forms, from the townhouse to the high rise apartment, from the triplex to the condominium. Illustrated on this page is a sampling of how many cities in the West are constructing projects for an increasingly popular way of life.

Townhouse living is embodied in the Hidden Springs cooperative apartments at Palm Springs. Architect Irving Shapiro and Associates designed the project to complement rugged surroundings of desert and mountains. All of the eight units have living, dining and kitchen areas on lower level leading to pool and lounge, two bedrooms and two baths on upper level. Entrances are through 12-ft. mission style mahogany doors. Windows are shielded by height-of-building wood screen panels. Stucco exterior finish features Italian glass mosaic tile. Average cost is about $42,500 each.

A triplex complex on the side of Queen Anne Hill in Seattle has a commanding marine view. Bystrom and Greco, architects, provided the same view outlook for each apartment in the two buildings, with decks on the view side in the upper units. Each building has three floors with three units in each. Two bedroom units will have a guest-study, separate dining rooms and a bath and a half. Each apartment has a fireplace and private, direct access with covered parking provided on the lower level. Keeping the Northwest flavor, the complex is of frame construction with wood exterior siding, exposed beams.

Largest rental apartment building in Berkeley, University Park Apartments, is presently under construction. Oakland architects Goetz, Hansen & Johnson planned the 96-units so that most apartments have a view of San Francisco Bay and the Berkeley Hills. Ranging in size from bachelor type to two bedroom units, all apartments will be furnished. The three-story structure has three penthouses and a community sundeck on the roof, basement parking for 96 cars, and an Olympic size pool.

Condominiums, sometimes called "subdivisions in the sky", have been a pioneering effort in Salt Lake City. Eugene Bernson, architect, has twin six-story condominium structure now under way with each building housing 32 units, most of them with two bedrooms at a starting price of $32,000. Three penthouses, each with three bedrooms, are atop each building, and are priced at $35,000. Carports are provided for each with side attractions including a swimming pool, nine hole pitch and putt course, recreation building. Structures are of masonry, exposed white concrete and glass.

A luxury 26-story high rise apartment building, housing 100 units and covering a total of 375,000 sq. ft., Century House in Phoenix will be the tallest building in the State of Arizona upon completion. Designed by Victor Gruen Associates of Los Angeles, the apartments have been arranged four to a floor. Units vary from the one bedroom size to three bedrooms with a private terrace opening off each apartment for uninterrupted view of the Phoenix area. Adjoining the ground floor will be pool and recreation area equipped with cabanas for each apartment. Parking is underground.

Top to bottom:
TRIPLEX, Seattle, Bystrom & Greco
HIGH-RISE, Phoenix, Victor Gruen & Associates
RENTAL APARTMENTS, Berkeley, Goetz, Hansen & Johnson
CONDOMINIUM, Salt Lake City, Eugene Bernson
TOWNHOUSE COOPERATIVE, Palm Springs, Irving Shapiro & Associates

steel sub-floor roof deck and wall panel!

for the new Los Angeles International Airport

The new multi-million dollar jet age terminal at Los Angeles is one of the world's most modern air centers. Using the most up-to-date architectural and engineering concepts, all materials for the project were chosen on the basis of practicality, durability and functional beauty. Mahon M4B and M4BF roof deck, M10B long-span deck and Quad Rib sections are used extensively throughout the 265 acre complex. ■ Theme Building of the Los Angeles International Airport is shown below. Design of the project was a joint venture of the architectural firms of Charles Luckman and Associates, Coordinating Architects; Welton Becket and Associates and Paul R. Williams and Associates. General Contractor was Robert E. McKee, General Contractor, Inc., Los Angeles, California.

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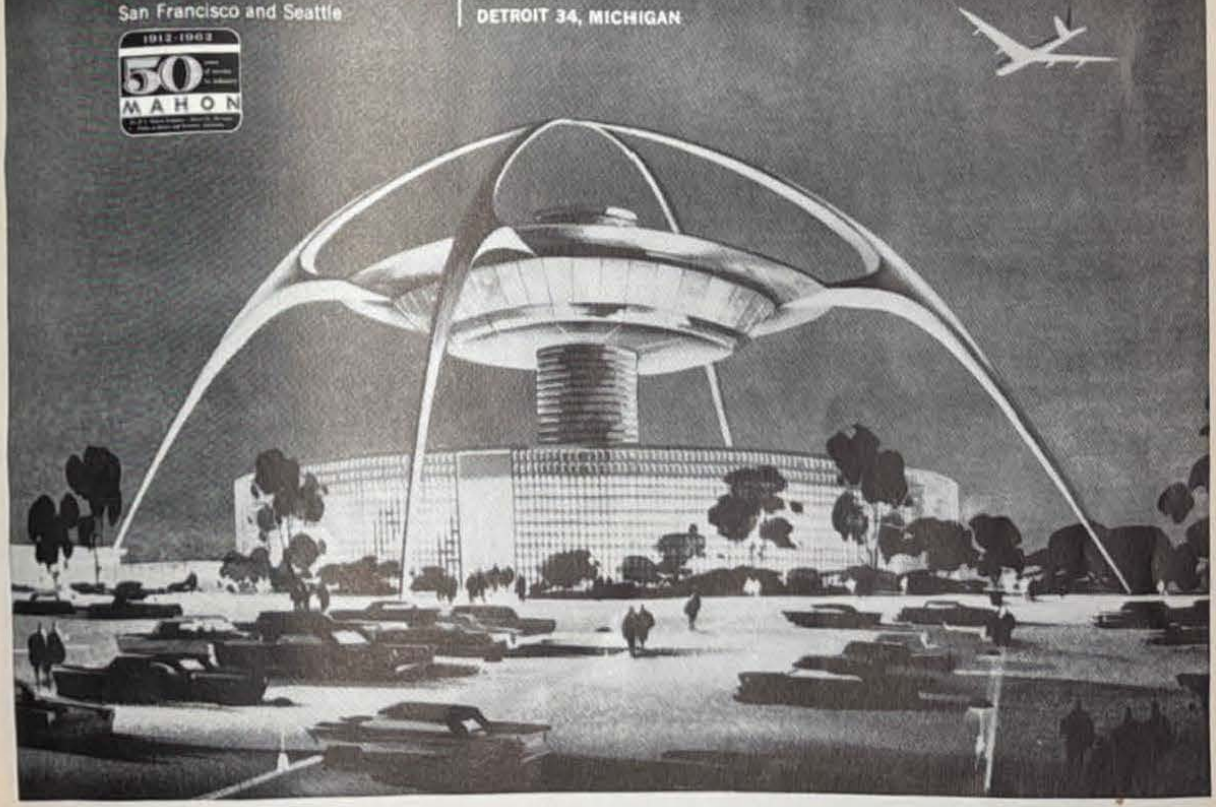
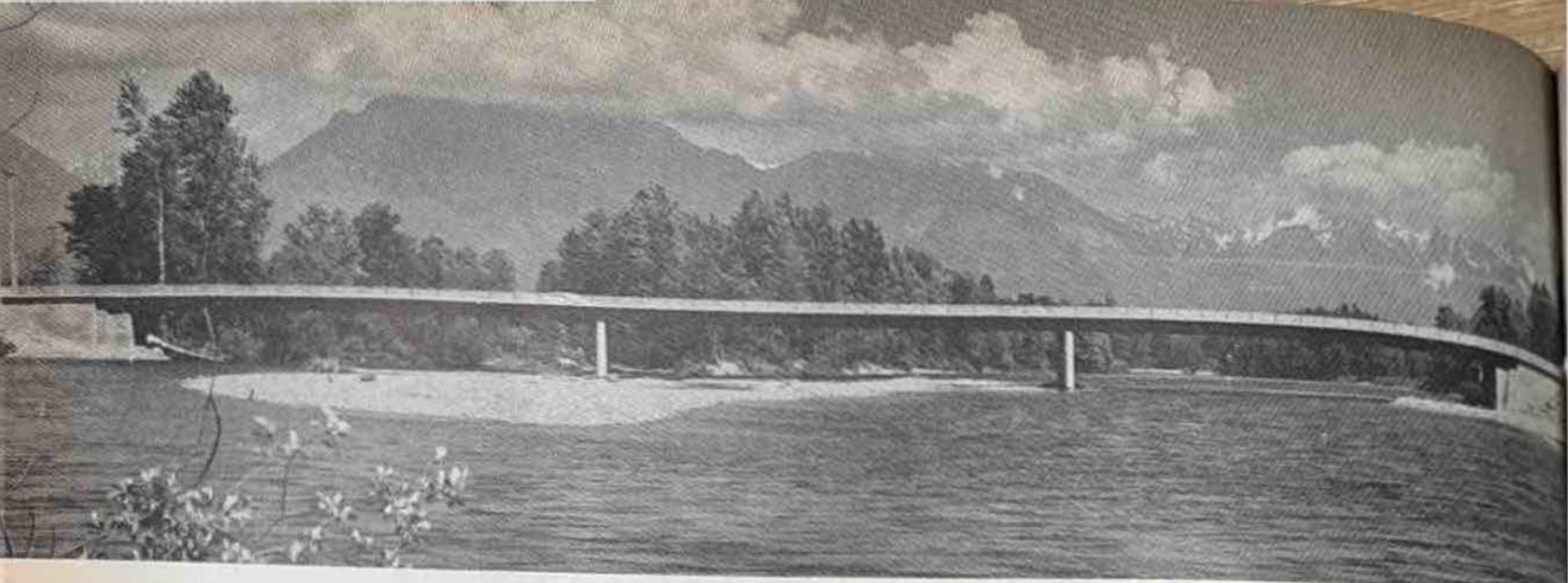




Twice honored, the Sultan Bridge, crossing the Skykomish River, was cited for "beauty of design" and for "combining aesthetics and utility in a graceful river crossing."

Prize Winning Bridges -- Beautiful and Functional

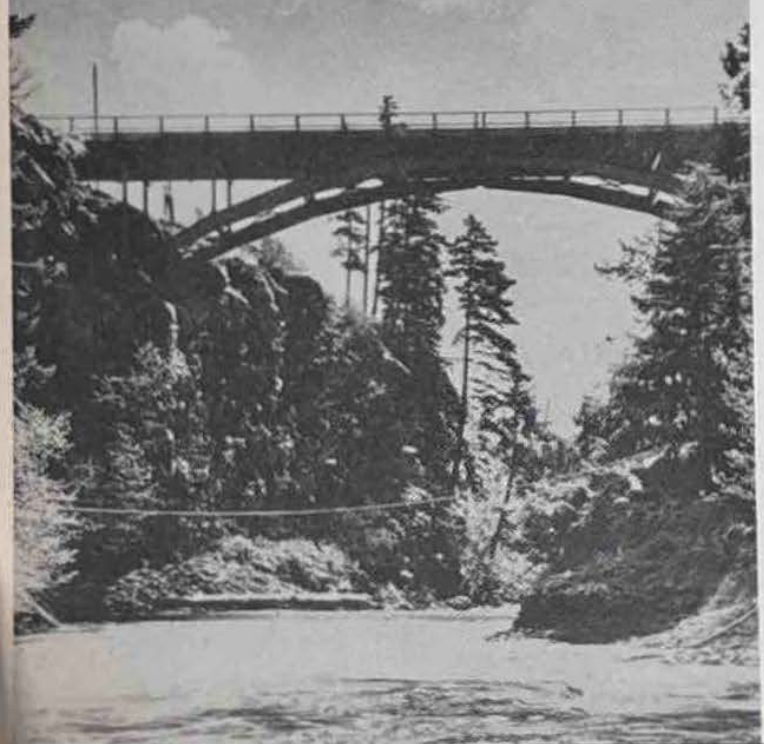
WINNING NATIONAL and international prizes for bridge design in steel has become almost a hobby with Harry R. Powell, Seattle consulting and structural engineer. Although he has designed and completed only five steel bridges since 1957, each has been a prize winner.

Last October, the American Institute of Steel Construction selected the Sultan Bridge over the Skykomish River in Snohomish County, Washington, as one of three bridges opened during 1961 in the United States for a national award for "beauty of design." The jury cited the bridge for extreme economy of material and praised it for interesting structural development resulting in a graceful, light and sturdy bridge.

This spring, the Sultan bridge brought additional honors to Harry R. Powell & Associates. The American Iron & Steel Institute announced it as one of two award winners in the 1963 Design in Steel competition for outstanding design using steel plate. A stainless steel plaque affixed to the bridge carries a permanent tribute for "combining aesthetics and utility in a graceful river crossing."

Among other honors accorded the firm is the American Institute of Steel Construction's first honorable mention for bridges completed in 1957. This time honors went to the span crossing the Swinomish Slough at LaConner, Washington. Competition in this class was restricted to bridges costing more than $500,000 and having more than a 400-ft. span. The LaConner bridge had the distinction of having the lowest dollar cost of any bridge to win this class since the competition started in 1928, a distinction it still holds. In the same AISC competition, honorable mention was given to the B. Z. Corner bridge, crossing the White Salmon River in Klickitat County.

Encouraged by the results of these competitions, the White Salmon bridge was entered in the James F. Lincoln Arc Welding Foundation national competition, winning third prize and a $1000 award. The arch bridge, carrying



Probably the most photographed bridge in Washington State, this award winner spanning the Swinomish Slough at LaConner, Washington, points up designer's theory that bridges should be beautiful as well as useful.

Two national awards were given this arch bridge carrying a 24-ft. roadway across the White Salmon River gorge in Klickitat County, Washington.

The American Institute of Steel Construction awarded the Modrow arch bridge across the Kalama River first place in national competition for structures completed during 1959, noting that it was the most imaginative and sensitive bridge in the competition.

a 24-ft. roadway across the river gorge, was built with about one third the weight of steel that a girder bridge would have used.

In 1959, third honorable mention in the American Bridge Company's International competition was won for a steel bridge, designed to carry a two-lane crossroad over a modern four-lane highway. The bridge was never built but many of the design concepts were incorporated in the prize winning Sultan bridge.

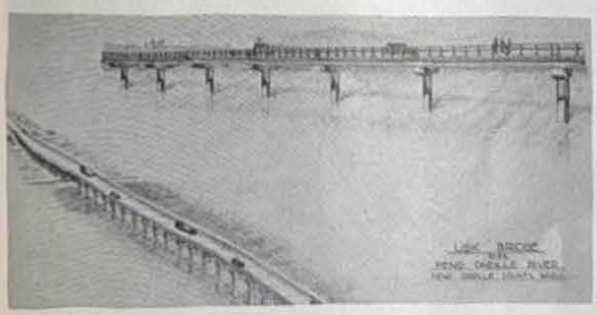
First place award was given to the three-hinged Modrow arch bridge across the Kalama River in Cowlitz County, in the AISC national competition for bridges completed in 1959. Judged the most imaginative and sensitive bridge in the competition, the jury noted that "there is no waste of materials in the beautifully tailored hinged arch and light struts. Every part seems to be appropriate to its use. The bridge is a sheer delight."

The LaConner bridge, probably Powell's favorite, is surely one of the most photographed bridges in Washington State, pointing up his belief that bridges should be beautiful as well as useful. He theorizes that designs should be worked out for aesthetic values, but that no deviation from sound engineering practice is necessary to accomplish this end since modern design depends almost entirely upon an interesting structural solution for its aesthetics.

Probably no engineer in the nation can equal his record for award-winning bridge design work in the past five years. One of the strange side effects of all these honors seems to be that people regard him as a steel bridge specialist when in reality he has actually built some 40 concrete bridges and almost as many of timber.

A pioneer in the development of prestressed and precast concrete, a span he designed to cross the east fork of the Humptulips River in the Olympic National Forest is believed to be first prestressed concrete bridge in state.

On the drawing boards and soon ready for bids, is a steel-designed bridge crossing the Usk River in Pend Oreille County. The next prize winner?



Powell's next prize winner?

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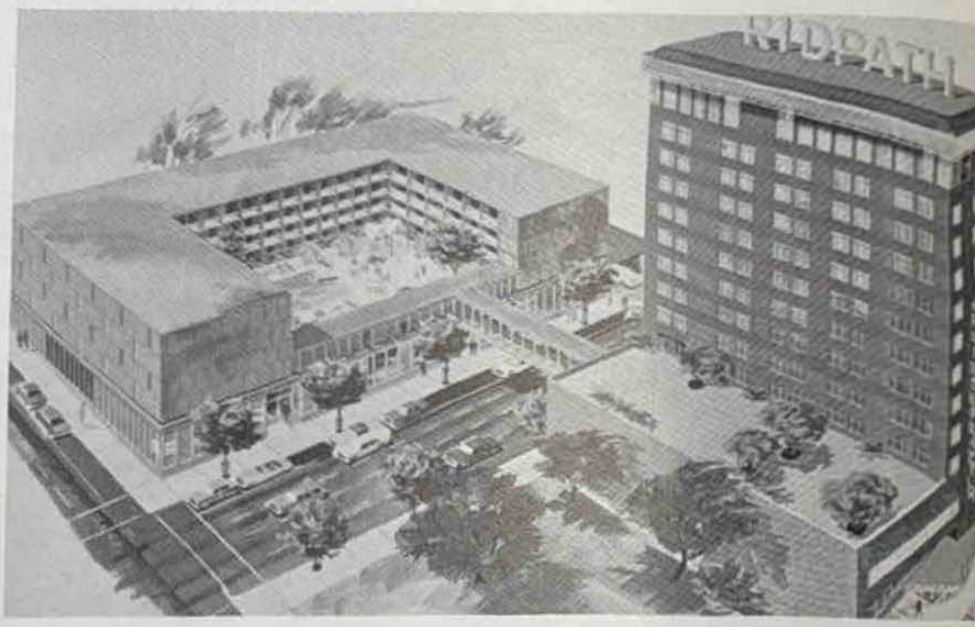
Another "Over-the-Street Concourse"

THE TREND TOWARDS urban redevelopment has caused many city planning and code departments to look more favorably on over-the-street ramps connecting downtown buldings. There have been interesting and novel structures of this nature in Seattle and Boise, and now in Spokane, where architects Walker and McGough have connected the Ridpath Hotel with a new Motor Inn across the street.

They designed with 10-ton steel plate girders of high-strength steel, reaching 84 feet across and supporting an air-conditioned pedestrian walkway 12 feet wide.

The welded girders are 50-in. deep, with webs made from 1/2-in. plate. Flanges are 1¼ by 12-in. high-strength A441 plate, supplied by Bethlehem Steel Company's Seattle mill.

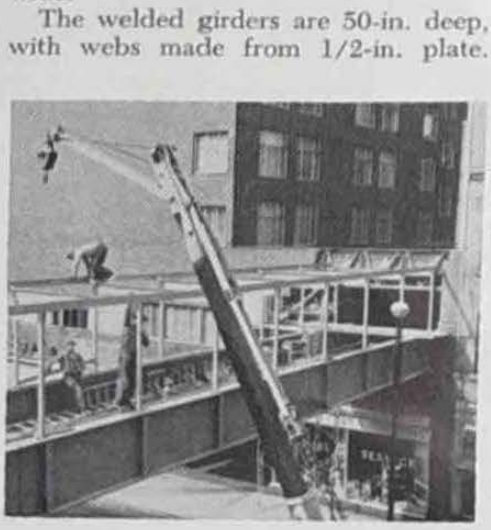
According to engineers Worthington, Skilling, Helle and Jackson, of Seattle, use of the high-strength steel produced an economical structure. It weighs about one-third less than a conventional grade of steel would have weighed to perform the same task.

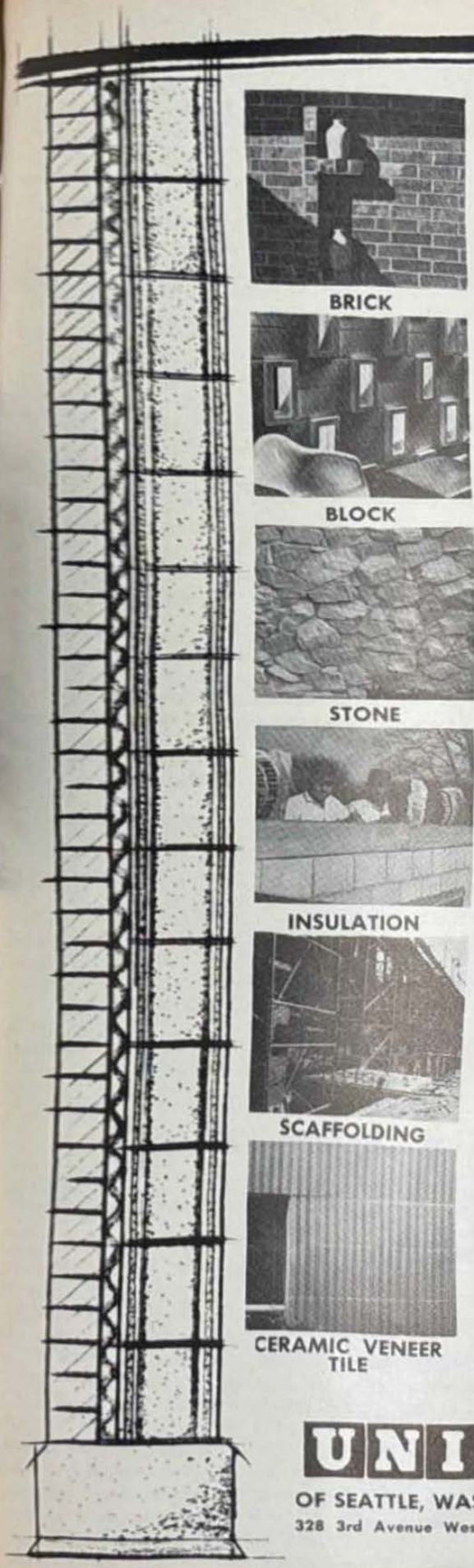


The concourse is a through-type bridge, with 12-in. wide-flange floor beams resting on the bottom flanges of the girders. Steelwork was fabricated and erected by Union Iron Works, of Spokane.

Floor beams are spaced on 7-ft. 9-in. centers, supporting a 4½-in. thick reinforced concrete slab. The entire structure will be enclosed with glass walls and steel roof decking. Space under the floor slab serves as ductwork for air conditioning, with 8-in. diameter holes, 12-in. on center, cut out of webs of the supporting beams to permit free passage of air.

Girders will be encased with fireproof plaster on the interior and stucco on the exterior. Above the girders, which reach to handrail height, walls and roof decking are supported by a framework of 8-in. steel beams and 3-in. square tubular steel columns. All structural connections are welded.





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BLOCK

STONE

INSULATION

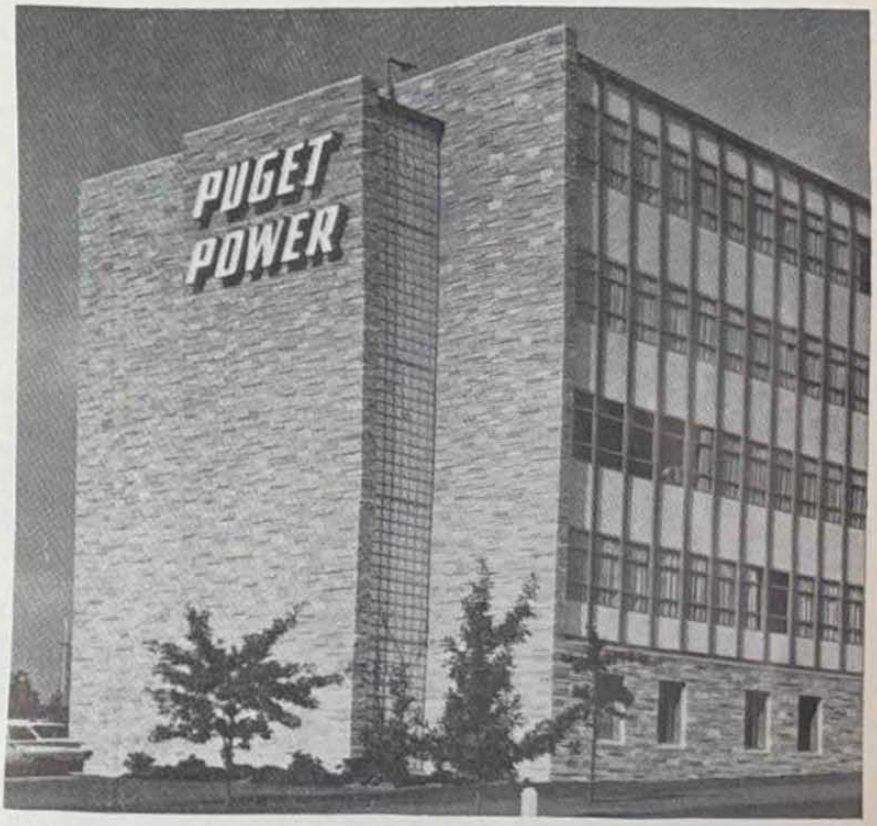
SCAFFOLDING

CERAMIC VENEER TILE

TO COMPLIMENT A NORTHWEST ENVIRONMENT

was one of the prime objectives at Puget Power in the design of their new "business home." To accentuate this feeling of Northwest living, they needed a beautifying product that was economical in construction as well as in upkeep.

These objectives were achieved by extensive use of a local product, Wilkeson Stone. The result is an artistic and permanent image of a job well done . . . and by using a masonry product, there will be no upkeep costs.



HARMON - PRAY - DETRICH . . . ARCHITECTS AND ENGINEERS

Subject: Puget Sound Power & Light Company
Office Building, Bellevue, Washington

Wilkeson Stone was selected to provide a durable surface of warm color and interesting texture. We felt that this material was especially compatible with the environs, and provided relief from the otherwise formal geometry of the building.

s/ ROLAND G. PRAY, A. I. A.

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executive chair

An executive chair that converts to a lounge chair is the latest addition to the BFC Line. The "Capitel" features an integral torsion bar suspension system, has satin-brushed aluminum base and casters. Full, walnut-sculptured, wrap-around arm rests encircle upholstered seat and back, covered either in leather or naugahyde. When covered in textured fabric, the piece becomes a lounge chair.—Hiebert Inc., 17001 Yukon Ave., Torrance, Calif.

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Hotel San Carlos
OAKLAND
Lake Merritt Hotel
RICHMOND
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VALLEJO
Casa de Vallejo Hotel
OROVILLE
Oroville Inn

high output lights for schools

An extruded aluminum lighting fixture that utilizes 1500 MA extra high output fluorescent lamps, Encore units are suitable for use in commercial and school installations. Fixtures can be used for several different kinds of systems, depending upon architectural demands, and come in variations of row, pattern, spline and valance types, the latter two requiring no ceiling wiring. Models are four, six and eight foot long, each utilizing one fluorescent lamp. Power units are separate two-ft. components with one power pack serving up to 16-ft. of fixtures. There are three types of Encore units, all decorator keyed with a variety of anodized colors from which to choose.—Benjamin Div. (A/W), Thomas Industries, Inc., 207 E. Broadway, Louisville 2, Kentucky.

heat from the top

Ceiling mounted glass radiant heating in a low-watt density unit, suitable for heating the entire house, is being offered in the new CP-series by Berko. Available in two models, 18"x18", rated at 600 watts, and 24"x 24", at 1000 watts, the heaters project only 2" from ceiling. Heaters contain no fans or moving parts so are comparatively noise and maintenance-free. Infrared rays are sent out from low temperature source, recommended since its cycling nature takes advantage of residual heating effects of large radiating glass area. Suitable for commercial and industrial applications as well as home use.—Berko Electric Mfg. Corp. (A/W), 182 Liberty Ave., Jamaica 12, N.Y.

convertible fountain

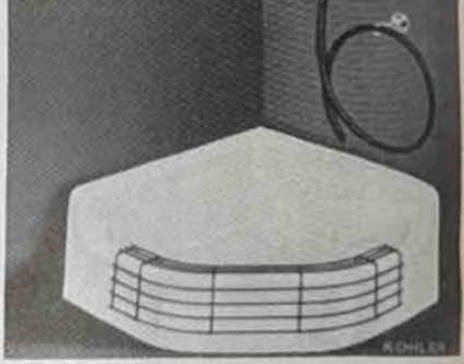
An air-cooled, stainless steel convertible drinking fountain is available in capacities needed for all normal commercial and institutional requirements. All models feature patented cooling package and are designed to accommodate the separate package inside the fountain apron where it is connected to existing plumbing when installed. Fountain can be easily converted from an unrefrigerated unit to cold water any time after installation. Compact unit projects only 8½-in. from wall, and is furnished with standard charcoal gray vinyl apron, all stainless steel apron, or an off-white vinyl which can be spray painted at point of use to match any color.—Sunroc, Division SRCA (A/W), Glen Riddle, Pennsylvania.

sound isolation panes

Acousta-Pane, a new product in 2, 3 or 4 ply construction, is laminated together with specially processed interlayers to form a single glazing unit. This construction provides structural strength and rigidity, shatter-resistance of laminated safety glass, and sound isolation between spaces plus freedom from unwanted outside noises. The panes will meet building qualifications in any type of construction where sound control is a factor such as hospitals, schools, airport and railroad complexes, and interior partitions in offices, without eliminating the visual element. Acousta-Pane is also available in grey tint that will reduce glare and heat.—Amerada Glass Corp. (A/W), 3301 S. Prairie Ave., Chicago.

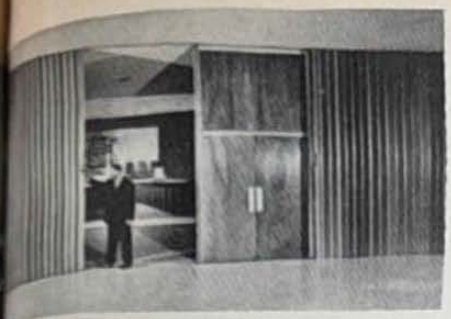
lighting forms in wood

Designed by Paul Mayen, a new lighting form, employing hand-rubbed walnut frame with two panels of Lumacryl, a translucent lighting plastic, has been added to the Habitat line of wooden ceiling fixtures. The combination of walnut framing and light transmitting surfaces, offers semi-directional light control for use when subdued lighting is desired. Wooden fixtures are also offered in rosewood, teak and ash.—Habitat, Inc. (A/W), 336 Third Ave., New York 10.



service sink

With a rim only 8" from the floor, a convenient height for emptying mop buckets or mobile mopping tanks, the Whitby service sink is a boon to maintenance men. The sink fits snugly into a corner, taking only 28" of space on each wall and extending out from the corner only 31½". Built for long service of cast iron with acid-resisting enamel permanently bonded to the cast iron, the fitting is equipped with Kohler Valvet units. Six-foot hose and hose hook are included.—The Kohler Co. (A/W), Kohler, Wis.



doors that combine for extra space

Wood folding doors combine with a conventional doorway to provide space flexibility while reflecting warmth of real wood. When additional seating area is required, folding doors are opened and conventional doorway section slides to one side, out of the way. Pella folding doors are available in wood veneers of ash, birch, oak, pine, Philippine mahogany or American walnut, either unfinished or factory finished. — Rolscreen Company (A/W), Pella, Iowa.

custom skylights

Two new designs in overhead daylighting units, manufactured to architectural specifications, round out a total of 16 patterns for Skydome skylights that will allow a look of custom daylighting. The Pyramid unit has been modified to include additional features such as 20 deg. pyramid shaped acrylic dome, sloped condensation gutter and slotted extruded vinyl gasket. The durable aluminum retaining frame installs on 1⅝-in. and 4-in. curbs and comes in clear, white, or dense white acrylic in nine sizes. The Dormer Dome is self-flashing, a triangular unit with an inner and outer dome construction having permanent watertight bonding. Dormer Dome is made only in one size—30¼x42½-in. —Building Products Div. (A/W), American Cyanamid Co., 5 Bay State Rd., Cambridge 38, Mass.

sliding grilles

Colorful, sliding grilles are effectively used in shopping centers, malls and downtown renewal projects. They provide beautiful protection without shutting off air and light, require no maintenance, stack in small space to one side, approximately 2¼" per foot of opening width. Grilles travel around corners to enclose irregular areas and provide a versatile and protective barrier of enduring strength. Popular colors of anodized gold and silver, bonded green, black and white in single or in combination are available with custom colors made to order for special projects.—Cornell Iron Works (A/W), 36th Ave. & 13th St., Long Island City, N.Y.

Model 36-DY

Sculptured in tenzaloy aluminum

MORE than a useful fountain, this new Haws twin bubbler unit, cast in Tenzaloy Aluminum, adds sculptured *outdoor emphasis* to architectural design. Model 36-DY echoes modern lines with bold form and imparts a quiet richness of color with its muted bronze, hard anodized finish. The surface resists scuffs, scratches and corrosion, the tough body wards off dents and nicks. Clients will appreciate Model 36-DY's vandal-proof features: Simple, push-button valves, locked-on bubblers, and under-plate to safeguard trim. For architectural beauty that lasts to the client's satisfaction, specify 36-DY.

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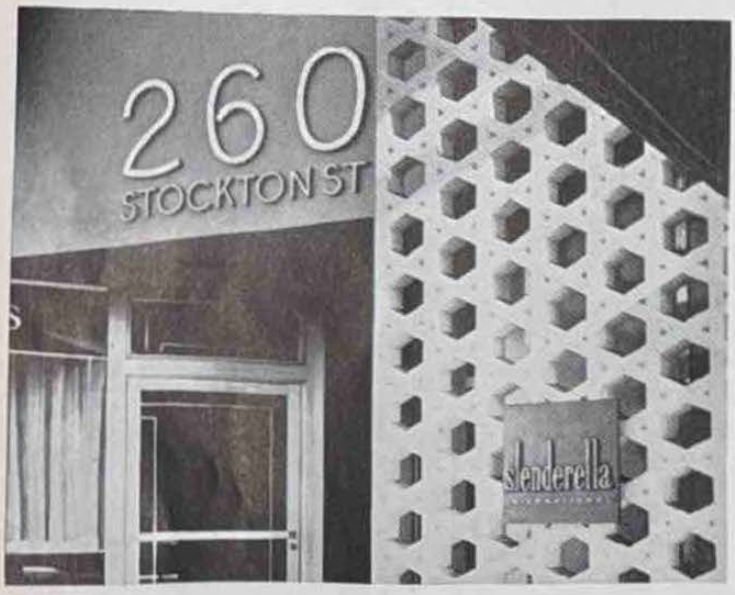

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LITERATURE

Voice Reinforcement and Communications for Houses of Worship: offers information concerning requirements of the smallest to the largest church in the following areas: general voice reinforcement system to produce sound and voice at adequate listening levels; nursery or children's room communications; educational distribution system; tower sound/music system, all operated from centrally located control console. Describes flexibility, performance, low maintenance, utility and expandability.—Communication Systems Div., Dukane Corp., St. Charles, Ill.

Humidity: how to define, sense and control it, is the subject of a 12-p. brochure, describing by industry where humidity is important and the types of sensors and control units available for each application. Included is performance and pricing data, and a checklist showing where such devices are used in a page of typical applications.—Honeywell, Sensor Products Group, 2727 Fourth Ave. So., Minneapolis 8, Minn.

Cabinets, Lavatory Mirrors and Accessories (AIA 29-J): highlights new models including lighted version of the popular Gold and Silver Cameos with oval mirror; Twin Cameo with double oval mirrors in either gold or silver; a louver door utility cabinet and a Top-N-Side cabinet featuring three-way shadowless integral lighting. Construction features and installation specifications are detailed. 32-pp., full color.—The F. H. Lawson Co., Cincinnati 4, Ohio.

Laminated Plastic Idea Book (AIA 35-C-12. 23-L): shows commercial and institutional interiors in full color, with practical applications of laminated plastic ranging from telephone booths to store fixtures and airport wall panels. Book contains reproductions of decorative colors, patterns and woodgrains as well as illustrated examples of decorative art, a custom service for murals, corporate emblems and accent panels sealed for lasting beauty in laminated plastic.—Formica Corp., 4614 Spring Grove Ave., Cincinnati 32, Ohio.

Curtain Walls and Bearing Walls (AIA 17-A): gives brief information on new curtain wall and bearing wall systems, and a line of operating windows in aluminum and steel. Details shown for each system and window type. Includes photographs of major installations with architectural illustrations. A check list of 12 basic curtain wall engineering principles is included. 6 pp.—Pacific Curtainwall, Inc. (PAC/WALL), 600 W. 15th St., Long Beach 13, Calif.

Steel Doors and Frames for Modular Construction: contains information on the module such as definition, usage, concept, engineering and esthetics, as well as three data sheets listing standard door widths for modular openings. Details included on standard doors and how they can be adapted to concept of modular dimensioning. 8-pp.—Steel Door Institute, 2130 Keith Bldg., Cleveland 15, Ohio.

Design Themes with Glass Block (AIA 10-F): "Variations on Black and White Design Theme" explores current trend of designers toward a general black and white style. Illustrated are possibilities of glass block design utilizing 13 blocks, in four sizes and four patterns, with colors ranging from pure "Frost White" through blue-black, blue-gray and silvery-white. Sizes include 6 in., 8 in. and 12 in. square and the 12 in. x 6 in. rectangle. Also illustrated are applications with other materials, and basic grids, windows and spandrels, as well as accent and contrast usages.—Owens-Illinois, Daylighting Products, P. O. Box 1035, Toledo 1, Ohio.

MANUFACTURERS/SUPPLIERS

• **Permalume Plastics Corp.**: C. M. (Cy) Schile is new administrative assistant and promotional sales director for the Vancouver, Washington, firm, according to C. R. Grems, president. Permalume recently moved headquarters from Klamath Falls, Oregon.

• **M. Greenberg's Sons, Inc.**: Frederick A. Sanders has been appointed executive vice president and general manager of M. Greenberg's Sons and its affiliate firm, Josam Pacific Co. The announcement was made by Stuart N. Greenberg, president of the 110-year-old San Francisco firm.

• **Hawaiian Cement Co.**: John M. Kinard, executive vice president of American Cement Corp., has been elected chairman of the board of Hawaiian Cement Corp., Honolulu.

• **U. S. Plywood Corp.**: Robert M. Scholz, formerly assistant manager of the Los Angeles branch, has been appointed manager of the Sacramento office. At the same time, announcement has been made of the appointment of Maurice H. McCleery as sales manager of the west coast lumber procurement department at Eugene.

• **St. Regis Paper Co.**: A Forest Products Division, headed by William R. Haselton, vice president and Northwest regional manager, has been formed, with main operations to be centered at the St. Paul & Tacoma divisions, Tacoma. Charles L. Morey has been appointed manager of marketing in the new division; Richard P. Neils, general sales manager; Paul Wonderly, resident manager of the St. Paul & Tacoma division; Ward Smith, resident manager of the Klickitat operation.

• **The E. A. Thompson Co., Inc.**: Paul W. Woodbury has been appointed as Construction Consultant in Northern California, to promote Thompson's Color Water Seal. Mr. Woodbury was with A. C. Horn Co. seven years.

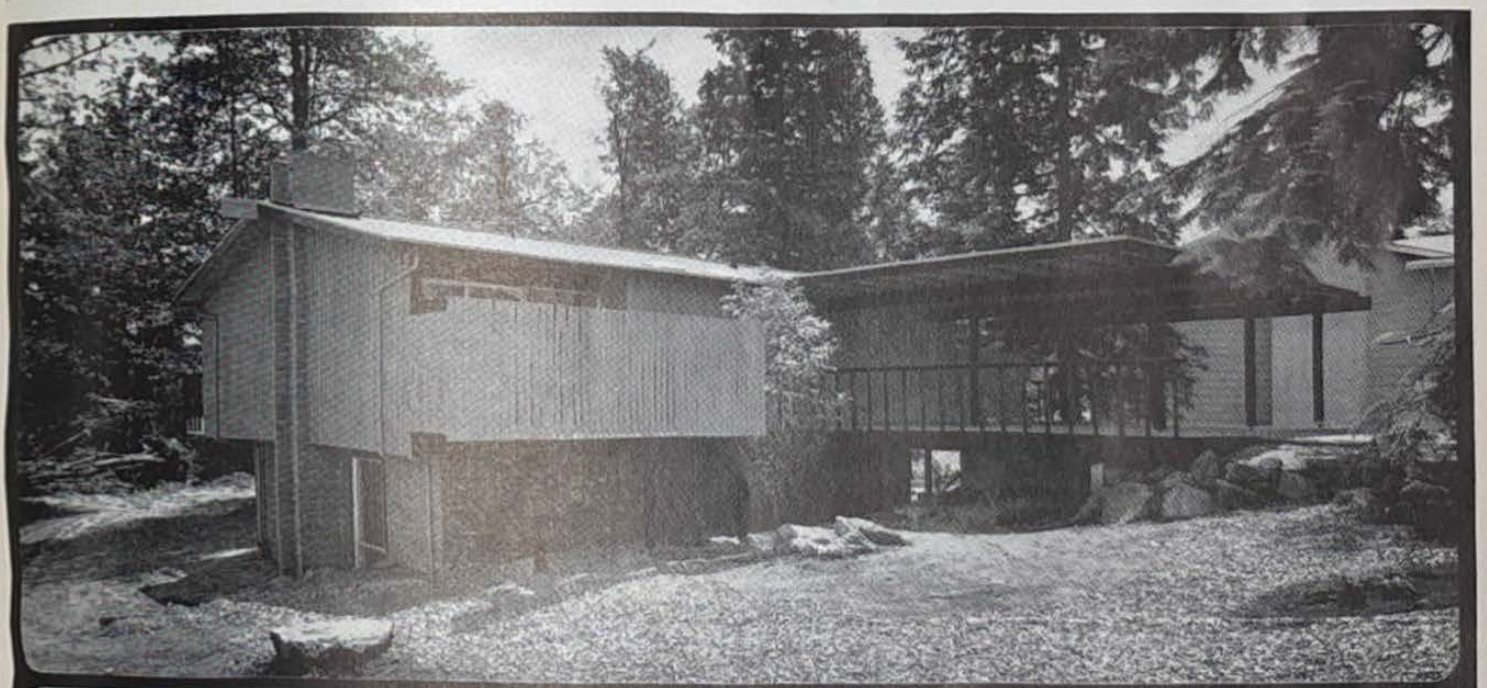
• **Permanente Cement Co.**: The only company west of the Mississippi to be honored, Permanente has been awarded the Certificate of Merit for its 1962 technical space advertising program in the Engineers' Technical and Product Literature Competition. The citation read "for lucid, uncomplicated presentations of special engineering service solving field problems in the use of cement".

• **Armstrong Cork Co.**: Edgar B. Sterret, Jr. has been transferred from the Cincinnati office to the Los Angeles division where he will be architectural sales representative.

• **Sunbeam Lighting Co.**: The Los Angeles firm, in an expansion of its sales organization program, has named four new representatives across the nation. Sterling Lynch, Fresno, will represent Sunbeam in the San Joaquin Valley. Other appointments were in Florida, New York and Wisconsin.

• **Weyerhaeuser Co.**: Daniel H. Koch of Tacoma has been appointed new product coordinator for the Wood Products Division, a position recently created to facilitate commercialization of new products being developed in this division. John A. McConaghy of Louisville has been named Seattle area manager, Wood Products marketing operations, succeeding I. R. Johnson, now White River plant manager.

• **Marsh Wall Products, Inc.**: Ray Webb, 43, sales representative for Marlite paneling in Utah, southern Idaho and eastern Nevada, passed away May 16, at his home in Paris, Idaho. Mr. Webb had been with Marsh Wall since 1955.



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Architecture / West

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FACTORY MAGAZINE, a monthly national industri publication which conducts an annual competition discover the Ten Top Plants, has discovered a ne trend. Firms that once huddled in drab sections cities now add patches of color and beauty to th suburbs. Instead of running to the South to escap management problems, they stay in their own suburba back yards, provide tree-lined patios and putting green Architecture of their new plants fits the new neighbo hoods and is designed to attract highly skilled worker

They study color coordination and landscaping "built-in woman appeal."

Sounds just like away out West, doesn't it?

As a matter of fact, two of the Top Ten selecte by Factory Magazine are the Pacific Coast Divisio plant of Armstrong Rubber Co. at Hanford, California and the Trimpot Division of Bourns, Inc., at Riversid California.

A sidelight on the study: Another trend is bein developed by Western firms that are moving int midwest and eastern competition—rather than inves heavily in an unproven area, they are renting sma test plants to prove out market predictions or labo productivity. Then if all goes well they build thei giant facilities later, introducing to the East their Wes ern ideas of modern suburban factories.

• • •

Standards will be established by industry for glazin materials used where there is the likelihood of injur when they are broken. A benchmark for the standard project sanctioned by the American Standards Associa tion may be the Dade County, Florida, glass doo injury survey made last year. This is welcome news since wide discrepancies between FHA and numerou local code ordinances have created confusion as t most suitable types of glass and size limitations.

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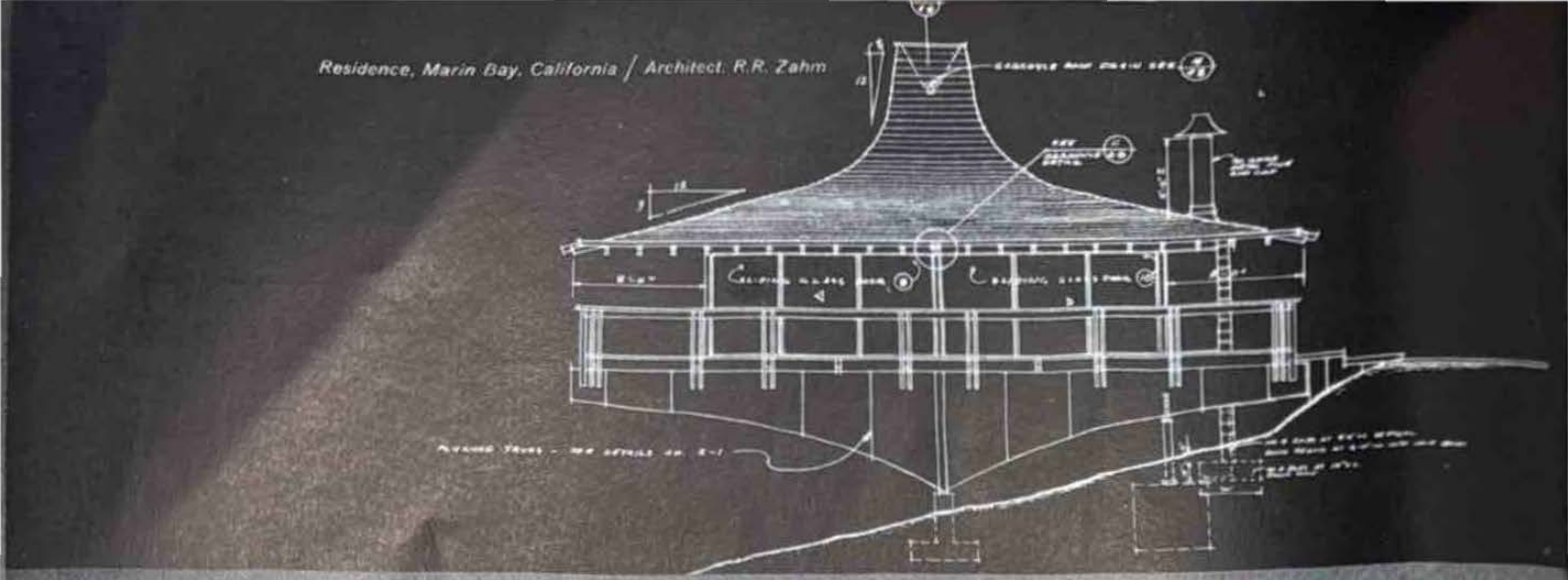

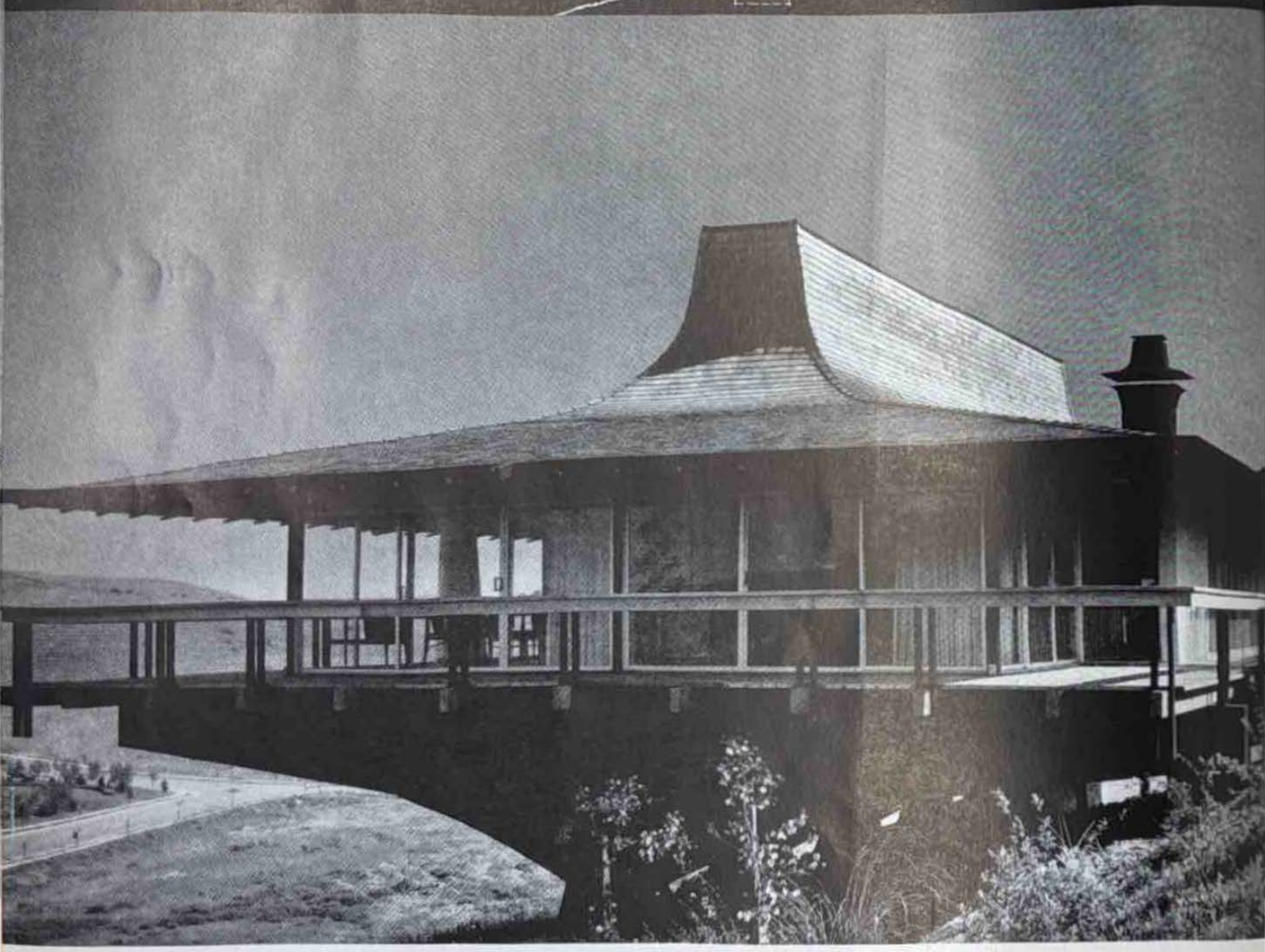

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A/W

Architecture / West

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COVER: Seattle Center, a Reoriented World's Fair Site. A/W Staff Photo. See page 12.

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ABOUT THIS ISSUE: Somehow, maybe because it was summertime, we got onto the subject of recreation, or at least the part that architecture and planning can play in making our off-duty hours more pleasant.

We got started on this by re-visiting the Seattle World's Fair site, which as a new Seattle Center, offers much from merry-go-rounds to serious contemplation of arts and crafts. We had assumed, and rightly so, that the opera house and the science center would continue in quality of presentation and in popularity. But the other buildings . . . would they be used as promised? The reorientation and renovation and landscaping . . . would Seattle rise to the challenge of doing good things, or would the area run down or turn to honky-tonk? The first year answer starts on page 12. Much more is planned for 1964.

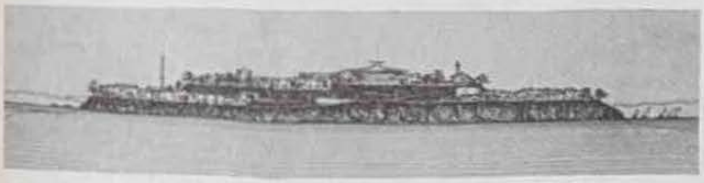
From the all-embracing Center to two playgrounds, well done, scraped out of barren sand and small budgets – pages 16 and 20. Playgrounds to a ski lodge and a community club building, to two zoos. The Los Angeles Zoo, page 26, is a planning project for a zoo unlike any in the world, a new concept worth studying. Then a remarkable gibbon house in Oakland, a structural "Methods and Materials" marvel as well as an unusual way of exhibiting gibbons, page 28.

NEXT MONTH: Carried away with Fun and Frolic this month, we abandoned Project Preview and Hang Hats and Products in Action. They'll be back next month. Three dandies.

THE BUILDING MONTH

WHEN RUMORS of the abandonment of Alcatraz Island began to be current a year ago, the Public Relations Committee of the Northern California Chapter, AIA, proposed a program to be undertaken before the question of what to do with the Island became a public issue. The committee planned a "Search for Ideas"—not a competition, but a program of proposals to stimulate constructive thinking in the profession and to produce ideas which would in turn stimulate public interest in finding the best possible use for Alcatraz.

Architect Jack Hermann's proposal, illustrated on this page, is representative of the many ideas submitted. His suggestion encompasses a recreation island . . . "a new place to free mind and spirit, to search for wisdom, prepare for tomorrow, to be productive, to coordinate the Bay". He would remove all existing structures and build a restaurant, library-museum, assembly hall for conferences, a music hall and a theater.



Proposals included: (1) Pelican Island, like Tivoli Gardens, open only in good weather, Rei K. Okamoto; (2) an illuminated fountain, Franklin Page, Jr.; (3) an International Island for the United Nations as a World Peace monument, Kirby W. Fitzpatrick; (4) an International Research Center benefitting the world, Charles O. Perry; (5) a symbol of peace, represented by a slender tower with a beacon, Eldridge T. Spencer, FAIA.

Other ideas: (6) small college for the creative arts, limited to 350, and embracing the intellectually elite of all colleges of the Pacific Coast, Lyle Brown; (7) a School of International Understanding, promoting brotherhood and preserving the peace, Gordon Phillips; (8) International Research Center for the Humanities, Germano Milono; (9) a center for the conservation, welfare and protection of human and natural values, James Hancock; (10) a convention center, Max Garcia; (11) Pacific Conference Center and Alcatraz-Golden Gate National Monument, a place for the exchange of ideas, information and recreation, Sim Van der Ryn and Charles Hanf; (12) Isle of the World, a dual purpose complex to provide perpetual exhibits of international development in technology and science, as well as a convention center and celestial observatory, Corlett and Spackman.

Suggestions also included: (13) Alcatraz Island Park, a rehabilitation project based on a premise that the island can finance its own restoration through public interest in visiting it at a fee with ultimate construction of Old Fort Alcatraz as an object of historic interest, becoming a large open park, John Fisher-Smith; (14) "Quality" should be key to character of the development. An inn, run as a quality establishment supplementing a quality restaurant with sweeping vistas, a conference center at the same high standards, adding up to a symbol of cultural advancement, the source of great ideas, Elisabeth Kendall Thompson.

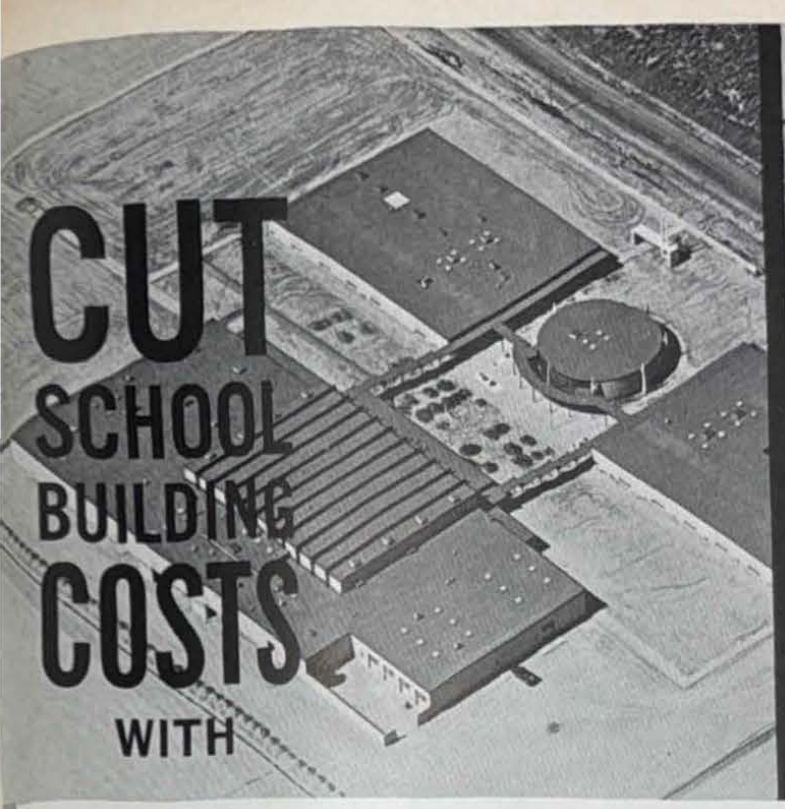
Highlights & Sidelights

22% INCREASE IN CALIFORNIA BUILDING—A record $2.6 billion dollars in building permit valuation during the first half of 1963 was recorded in California alone, an increase of 22.3% over the same period last year. Residential construction totaled $1.74 billion, up 28.6%; non-residential, $827 million, up 11.8%. Major gains were shown in hospitals and institutional structures, up 18%; stores and mercantile buildings, up 13%; schools and educational buildings, up 9%; industrial buildings, up 3% for a total of $99.2 million, with additions and alterations to existing non-residential buildings showing an increase of 56.9%. The construction boom resulted in a 6.1% increase in the number of construction workers employed during the six-month period.

MONTANA ENFORCES ARCHITECTURAL CONTRACT VALIDATIONS—The Montana Board of Examiners has issued a warning that no architectural contract will be considered valid until it is signed by the examiners. The state attorney-general stressed that a "three-way stamp" is necessary to employ an architect: approval by the head of the institution, the director of the Department of State Administration and the Board of Examiners. The board also issued an order to architects that plans and specifications must be submitted two weeks before the date set for a meeting called to approve or disapprove such plans.

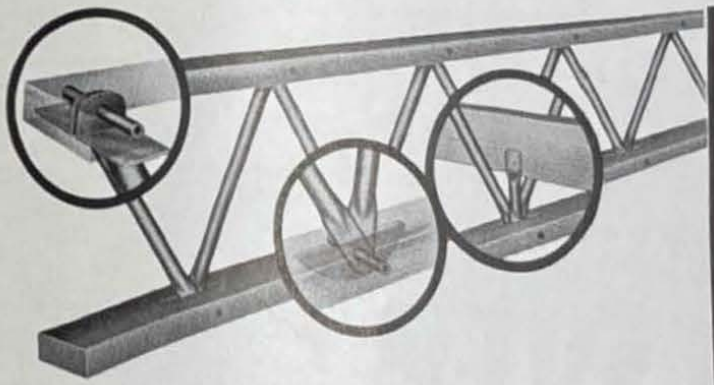
AISC COMPETITION—Entries for this year's competition to choose the most beautiful steel bridges opened to traffic during 1962 should be sent to the American Institute of Steel Construction, 101 Park Avenue, New York City, by Sept. 30. Black and white photographs accompanied by information of span lengths, cost, roadway width and other pertinent data are all that is necessary. Among the five jurors, Harry Powell, Seattle consulting engineer, is Western representative.

PRACTICE ACT SIGNED INTO LAW—Far-reaching changes in California's code governing the practice of architecture were signed into law by Governor Edmund Brown at the last legislative session, will become effective September 20, 1963. Information sheets and procedures for putting new provisions into action will be published after that date. The new Practice Act requires appointment by the Governor of an additional architect member to the State Board of Examiners, and appointment of three architect members to the Qualifications Advisory Committee which will handle registration of building designers under the State Board.



CUT SCHOOL BUILDING COSTS WITH

TRUS-JOIST



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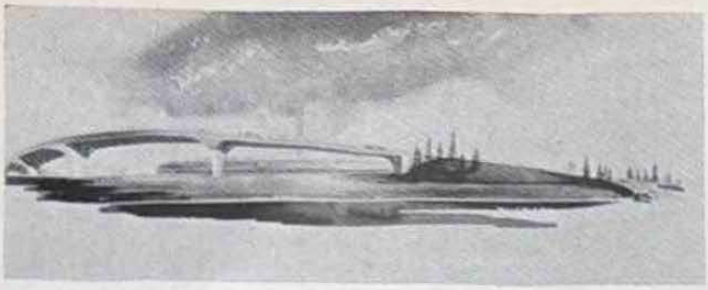
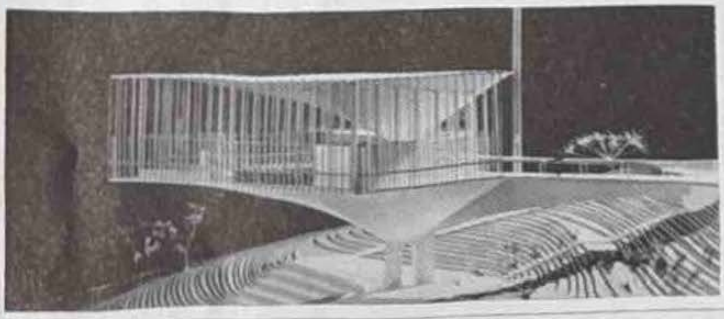
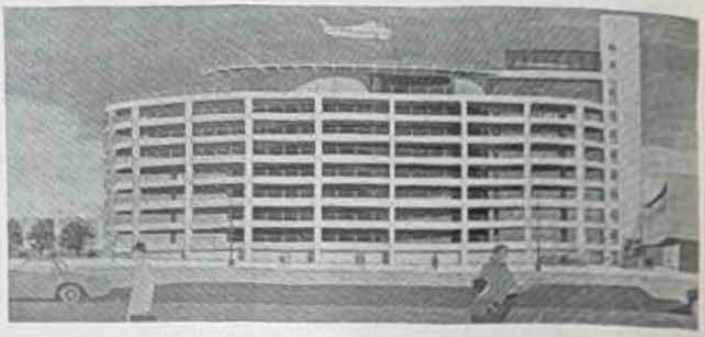


PRESTRESSED CONCRETE INSTITUTE AWARDS—Of eight merit awards in the 1963 Program, four so honored were designed by West Coast architects. The advancement of prestressed concrete was one of the prerequisites of the judging with all structures started prior to April 1, 1963. Cited were John Carl Warnecke & Associates, San Francisco, for the curvilinear 23rd Avenue Bridge in Oakland (top photo), in association with Kaiser Engineers, Inc., engineers on the project, and T. Y. Lin & Associates, International, structural consultants; the Church of the Good Shepherd (below) in Bellevue, Washington, designed by Kirk, Wallace and McKinley, Seattle, with Worthington, Skilling, Helle & Jackson, structural engineers; and the County of Alameda self-parking garage and heliport, Oakland (lower photo), by Van Bourg/Nakamura, Oakland, Ratcliff & Ratcliff, associated architects, and H. J. Brunnier, structural engineer. The fourth citation was for the U. S. Science Pavilion at the 1962 Seattle World's Fair (pages 13 and 15 this issue), a Minoru Yamasaki & Associates design in association with Naramore, Bain Brady & Johanson, Seattle, and Worthington, Skilling, Helle & Jackson, structural engineers. Five jurors, including Seattle architect John Graham, awarded first place to the St. Richard Church in Cote St.-Luc, Quebec.





COMING EVENTS—**Producer's Council 42nd Annual Meeting,** Shoreham Hotel, Washington, D.C., Sept. 18-20, theme "Viewpoints—The Customer Speaks" . . . **Western Building Industries Exposition,** Great Western Exhibit Center, Los Angeles, Oct. 1-7 . . . **Prestressed Concrete Institute,** Sheraton-Palace, San Francisco, Oct. 5-12 . . . **Civil Engineering Show,** Fairmont Hotel, San Francisco, Oct. 7-11 . . . **National Electrical Contractors Exposition,** Statler-Hilton, Los Angeles, Oct. 7-12 . . . "Consequences of Design," **Second Pacific Rim Architectural Conference,** Mexico City, Oct. 13-18.

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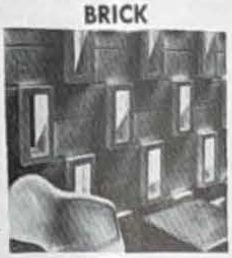
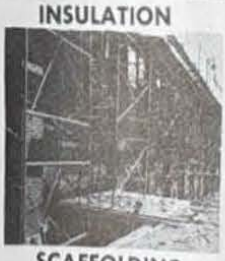


BLOCK

STONE

INSULATION



SCAFFOLDING

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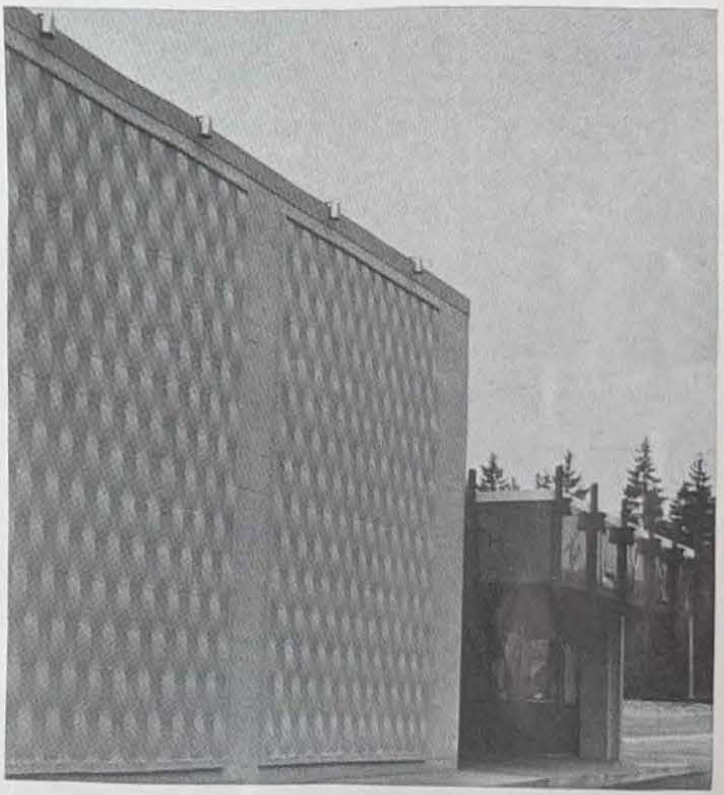

RAYMOND H. PECK, ARCHITECT, A.I.A.

Subject: Lynn Theatre, Lynnwood, Washington

This basket weave pattern pumice block was developed with the cooperation of the block manufacturer for this particular building to provide an economical, sculptured texture effect for the exterior and being painted only on the interior face provides a visually interesting as well as an acoustical interior finish.

s/RAYMOND H. PECK, A.I.A.

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T-SQUARE TALK

NEW OFFICES

Keith T. Boyington and Donald L. Read have formed a partnership for the practice of architecture to be known as Boyington & Read, Architects, at 402 Great Western Building, Spokane.

Walter L. Keller has opened his own architectural firm at 1150 Chestnut St., Menlo Park. For the past 16 years he was associated with Janssen, Daseking and Keller, Menlo Park.

Ira C. Marshak and Edward Leeds announce the formation of a partnership for architectural practice under the firm name of Marshak & Leeds, Architects, in their own new building at 820 South Sixth St., Las Vegas.

Peter Munselle, chief designer at Charles Luckman Associates, Los Angeles, for the past four years, announces the formation of Peter Munselle Associates to practice architecture and planning from headquarters at 315 S. Beverly Drive, Beverly Hills.

Robert Hagman, former partner in the firm of Hagman & Meyer, Los Angeles, has established a separate architectural practice at 1010 Doyle, Menlo Park.

Robert R. Weber and Goeffrey W. Fairfax announce the inauguration of the new firm of Weber & Fairfax, Architects, at 254 Sutter St., San Francisco. Fairfax, an associate partner of Wurster, Bernardi & Emmons since 1956, was project architect for San Francisco's Golden Gateway Redevelopment Project. Weber served as project architect on several large buildings throughout the mid-West, the West Coast and in the Hawaiian Islands.

Fairfax

Weber

The formation of the architectural firm of Hooper & O'Steen at 10306 N.E. Tenth St., Bellevue, Wash., is announced by Alfred S. Hooper and James E. O'Steen.

The firm of Walker & McGough, Architects, Spokane, opened a Seattle office in mid-July at 637 White-Henry-Stuart Bldg. Robert Nixon will be associate in charge. The firm, founded in 1953, will retain the headquarters office at 9 Post St., Spokane.

Frank Slavsky, formerly with Design Associates, has opened his own office at 320 Ward Avenue, Honolulu.

PROMOTIONS, ADDITIONS

The Los Angeles firm of Heitschmidt, FAIA, & Thompson, who have recently moved to new quarters at 3300 Temple Street, announce that Richard A. McKnew, chief designer for the firm since 1955, has become an associate.

Albert C. Martin, FAIA, & Associates, Los Angeles, announce that Herbert G. Winkler, project manager, and George Pujdak, chief designer of the Beaudry Division, have become associates of the firm, making a total of 26 associates in the 200 man organization.

Ernest L. Pogue has been named an associate in the Albuquerque firm of Lawrence A. Garcia & Associates.

Allan D. Moses has become a member of the Seattle firm of Young, Richardson & Carleton, Architects & Engineers. He joined the firm's staff in 1955 and is presently project architect on the long-range program in the expansion and improvements to the Seattle-Tacoma International Airport.

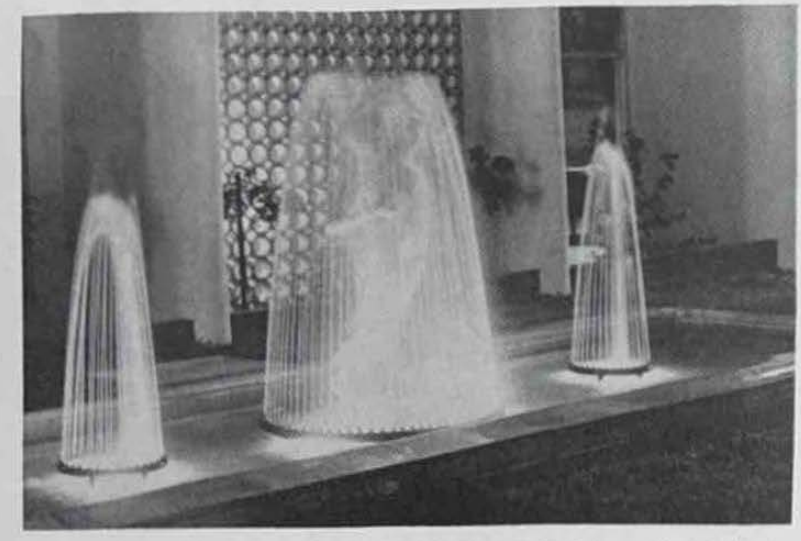
Le Corbusier in the West

Le Corbusier, French architect, has been commissioned to design the first apartment building in Foster City on the San Francisco peninsula, adjacent to San Mateo. T. Jack Foster, head of the Foster City development, has sent detailed topographical maps, aerial photographs and other materials to Paris to aid the architect in preliminary drawings. Le Corbusier assisted in the design of the headquarters building of the United Nations in New York City and the newly-opened Harvard Arts Center, but this is the first time the famed Frenchman has undertaken to design a building on the West Coast of the United States.

$5,000 Grant to Seattle Architect

Sidney Cohn, Seattle architect, has been granted $5,000 for study of government control of architecture by the New York Chapter, AIA. He was selected by the Chapter's Brunner Scholarship Committee which administers the annual award. The study will examine thoroughly the use of legislative action in determining design standards in European countries.

CUSTOM FOUNTAIN SERVICE



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FIRM CHANGES

The Los Angeles architecture, planning and interiors firm of Hagman & Meyer has been dissolved and will be replaced as Kurt Meyer & Associates with offices at 132 S. Vermont Ave. Louis L. Rozenfeld has been named director of planning for the new association.

APPOINTMENTS

James Westhall has assumed the duties of campus architect at the University of California at Los Angeles, replacing Carl McElvy, Sr., who was recently appointed California state architect. Mr. Westhall was formerly campus architect at UC Riverside.

John Carl Warnecke, San Francisco, has been appointed to a four-year term on the National Fine Arts Commission by President Kennedy.

Vernon L. Drake, partner in the Billings firm of Drake & Gustafson, has been appointed to the Mayor's Advisory Committee on Urban Renewal and to a post on the City Park Commission.

Lutah Maria Riggs, FAIA, has been reappointed to the Santa Barbara City Landmarks Committee.

DEATHS

John E. Wicks, Astoria, Oregon, died July 13, in that city at the age of 84. He was believed to be the oldest practicing architect in Oregon, having practiced continuously in Astoria since 1904. Mr. Wicks served three separate terms on the State Board of Architect Examiners, of which his daughter, architect Ebba Wicks Brown, is now president.

Nelson A. Hodges, Jr., Tigard, Oregon, architect, died July 22, of leukemia. A University of Oregon graduate, he was architect for a number of churches and schools.

Gilberto A. Maderafont, 41, Scottsdale, Arizona, architect, died in Apache Junction on July 9. Senior member of the firm, Maderafont and Associates, Architects, he had been a resident of Scottsdale four years, coming from New York.

ADDRESS CHANGES

W. George Lutzi to 4011 Calle Abril, San Clemente from South Pasadena.

Earl R. Mason, Architect, has moved into a new building at 713 South Pacific Highway, Redondo Beach, Calif.

Robert L. Tveit to 3418 Loma Vista Rd., Suite A., Ventura, Calif.

Wallace Gong to 2634 Piedmont Ave., Berkeley.

Hideo A. Matsunaga to 2449 Panorama Terrace, Los Angeles 39.

Clement Chen, Jr., to 425 Shelford Ave., San Carlos from Palo Alto.

Higgins & Root to 400 Blossom Hill Road at Route 17, Los Gatos.

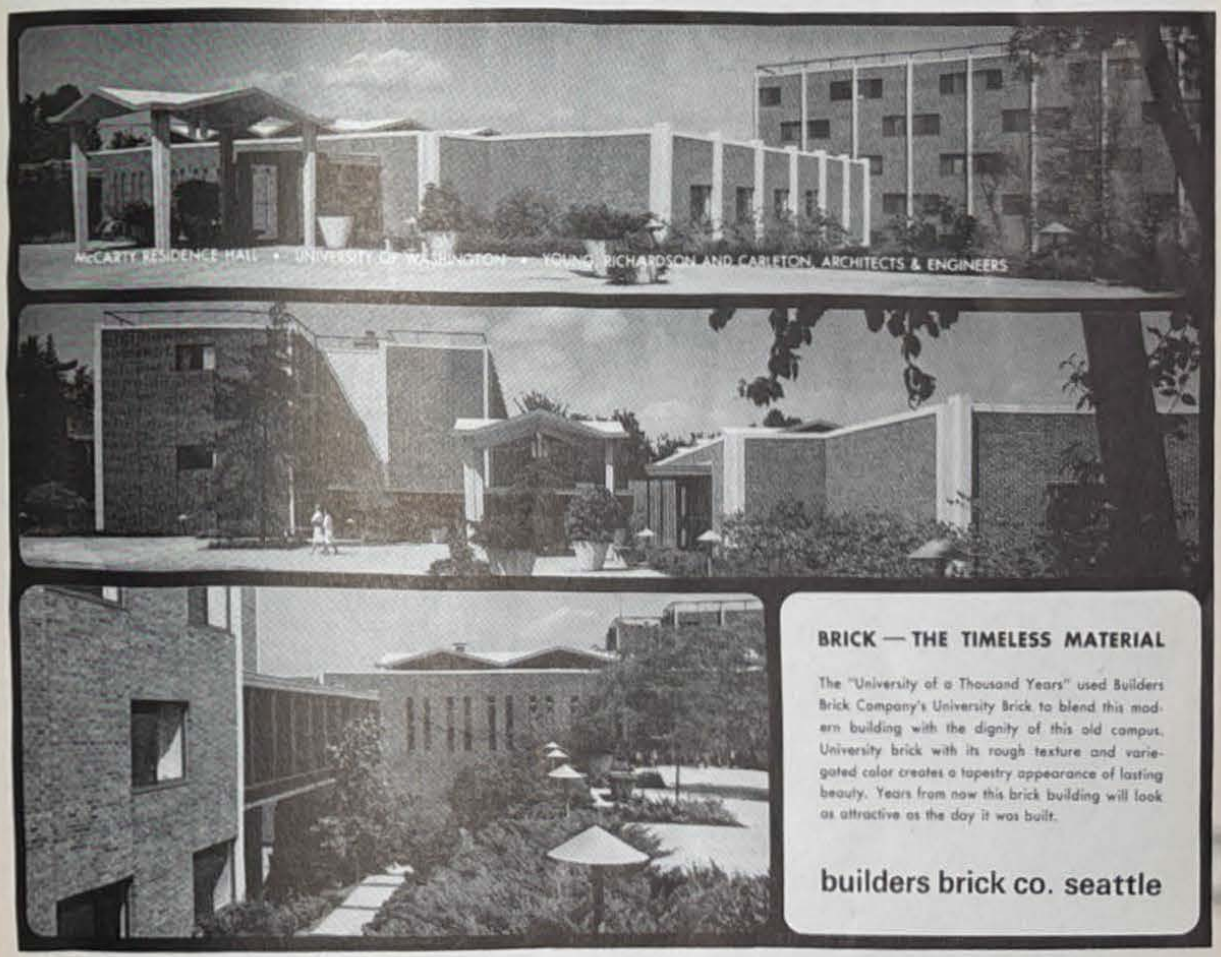
Henry M. Arnold to 2716 N. 16th St., Phoenix.

Mrs. Arthur E. Everett, Jr. to 6397 Clearview Rd., Boulder, Colorado.

Slack W. and David Winburn, Architects, have moved to 209 Judge Building, Salt Lake City.

Montana Advisory Committee

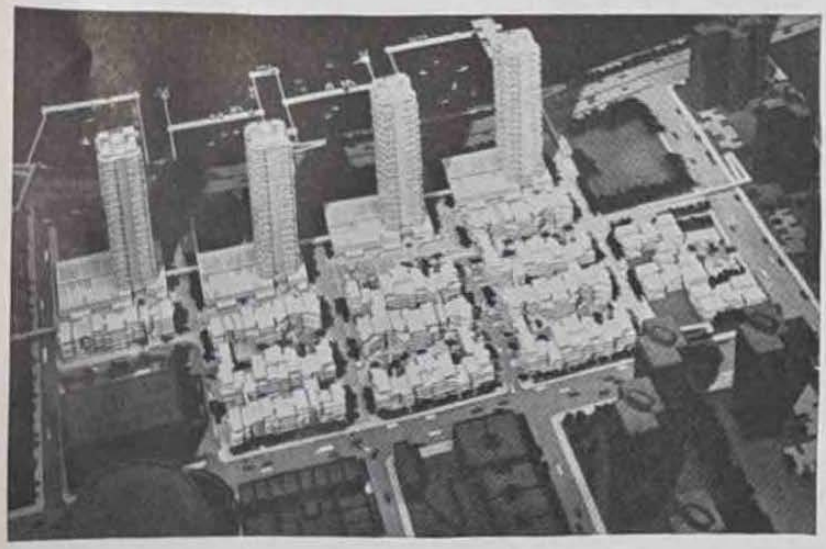
Appointment of a three-member committee to advise Montana's new State Department of Administration on architecture and engineering phases of its duties has been announced by Walter Anderson, executive officer, Helena. Named were Butte architect Charles Kestle; Billings engineer Ben Hurlburt and contractor Dan Mooney, Butte.



The RUBEROID Co. announces the

$25,000

New York City's East River Urban Renewal Project



Prospective of First Prize Concept—"a lively treatment of the facades on the low height streets culminating toward the river in four towers"...

In Ruberoid's Fifth Competition, conducted with the co-operation of the City of New York's Housing and Redevelopment Board, the attention of the architectural profession was directed to one of the nation's major problems—Urban Middle Income Housing. For this problem the City provided an actual site in Manhattan's East Harlem area and cooperated with Ruberoid in developing the Competition program. The City Housing Board also agreed to exert every effort on behalf of the winning concept for use in building the project.

Professional interest and participation reached a new high in the history of Ruberoid's architectural competitions. The opinion of the Competition Jury was that important new ground was broken by the winning awards in a challenging area of American life. It felt also that many of the ideas presented will be brought into existence and make a contribution to housing of the future.

The winning designs will be reproduced in a brochure later this year. For a copy write to The Ruberoid Co. on your letterhead.

THE DISTINGUISHED JURY that selected the winners (Left to Right)

- Herbert J. Gans, Research Assoc. Prof. of City Planning Inst. for Urban Studies and Dept. of City Planning. University of Pennsylvania, Phila., Pa.
- David A. Crane, A.I.A., Dir. of Land Planning and Design, Boston Redevelopment Authority, Boston, Mass.
- Lewis E. Kitchen, Lewis Kitchen Realty Co., Specialist in urban redevelopment; Kansas City, Mo.
- Albert Mayer, F.A.I.A., Chairman of Jurors, eminent architect and consultant, specialist in town, city and rural planning and development, New York, N. Y.
- Sir Leslie Martin, F.R.I.B.A., Prof. of Architecture, Univ. of Cambridge, England, Past Vice-Pres. Royal Inst. of Architects, leader in urban planning and redevelopment.
- Milton Mollen, Chairman of Housing and Redevelopment Board of City of New York, eminent lawyer.
- Harry Weese, F.A.I.A. widely experienced engineer, architect, and community planner, Chicago, Ill.
- B. Sumner Gruzen, F.A.I.A. (not shown) professional advisor to Competition, leading architect and engineer, Principal of Kelly & Gruzen, New York, N. Y.

Fifth Annual Design Competition

AWARDS

GRAND NATIONAL AWARDS

FIRST PRIZE $10,000	Thomas H. Hodne, A.I.A., James McBurney, Kermit Crouch, Robert Einsweiler, A.I.P., James Solverson, Vern Svedberg and Tokiaki Toyama	Hodne Associates Minneapolis 14, Minn.
SECOND PRIZE $5,000	Felix J. Martoranó	Shreve, Lamb & Harmon, New York, N. Y.
	Ricardo Scofidio Edvin K. Stromston	Richard G. Stein, New York, N. Y.
THIRD PRIZE $2,500	Amiel Vassilovski Hanford Yang	Pedersen & Tilney, Boston, Mass.

(6) MERIT AWARDS $500 EACH

1.	Ena M. Dubnoff, Richard K. Fleming, Eugene P. Flores, Ellis D. Gelman, Lewis A. Greenberg	Dubnoff, Fleming, Flores, Gelman & Greenberg Los Angeles 4, Calif.
2.	R. E. Alexander, FAIA, C. R. Wojciechowski	Robert E. Alexander & Assoc., Los Angeles, Calif.
	Paul R. Drag	William L. Pereira & Assoc., Los Angeles, Calif.
3.	John Dollard	Huntington, Darbee & Dollard, Hartford, Conn.
	Tai Soo Kim	Philip Johnson Assoc., New York, N. Y.
4.	Robert W. Brantingham, Thomas J. Eyerman, Thomas O. Schnell, Robert N. Wandel	Ohio State University, Columbus 1, Ohio
5.	Joseph J. Schiffer	Joseph J. Schiffer, Concord, Mass.
6.	Thomas E. Selck George C. Winterowd, Assoc. Prof. of Arch.	Miami University, Oxford, Ohio

SPECIAL STUDENT AWARDS

FIRST PRIZE $2,000	Robert P. Holmes Robert L. Wright	University of Illinois Urbana, Illinois
SECOND PRIZE $1,000	Michael Wurmfeld	Princeton University Princeton, New Jersey
THIRD PRIZE $500	Woodrow W. Jones, Jr. Gerrard E. Raymond Philip A. Shive	North Carolina State College Raleigh, North Carolina

(4) MERIT AWARDS $250 EACH

1.	Peter R. Bromer	Rensselaer Polytechnic Institute, Troy, New York
2.	John D. Duell, David S. Traub, Jr.	University of Illinois, Urbana, Illinois
3.	Iwao Onuma	University of Southern Calif., Los Angeles, Calif.
4.	J. Stroud Watson, Jr.	University of Illinois, Urbana, Illinois

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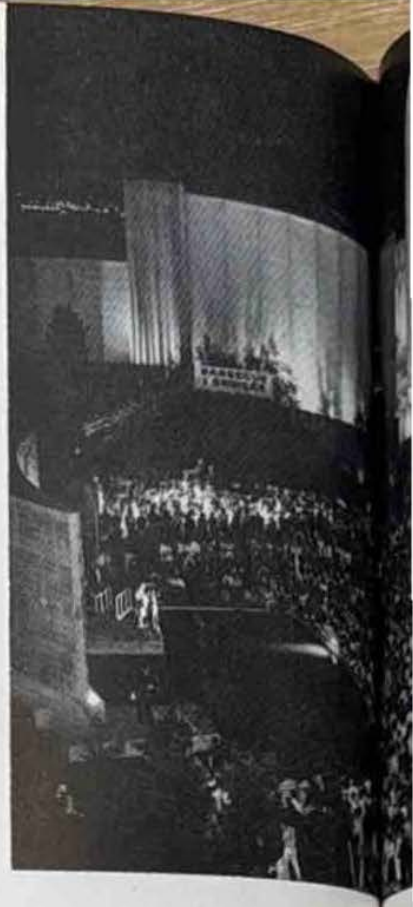
Fun and Frolic . . .

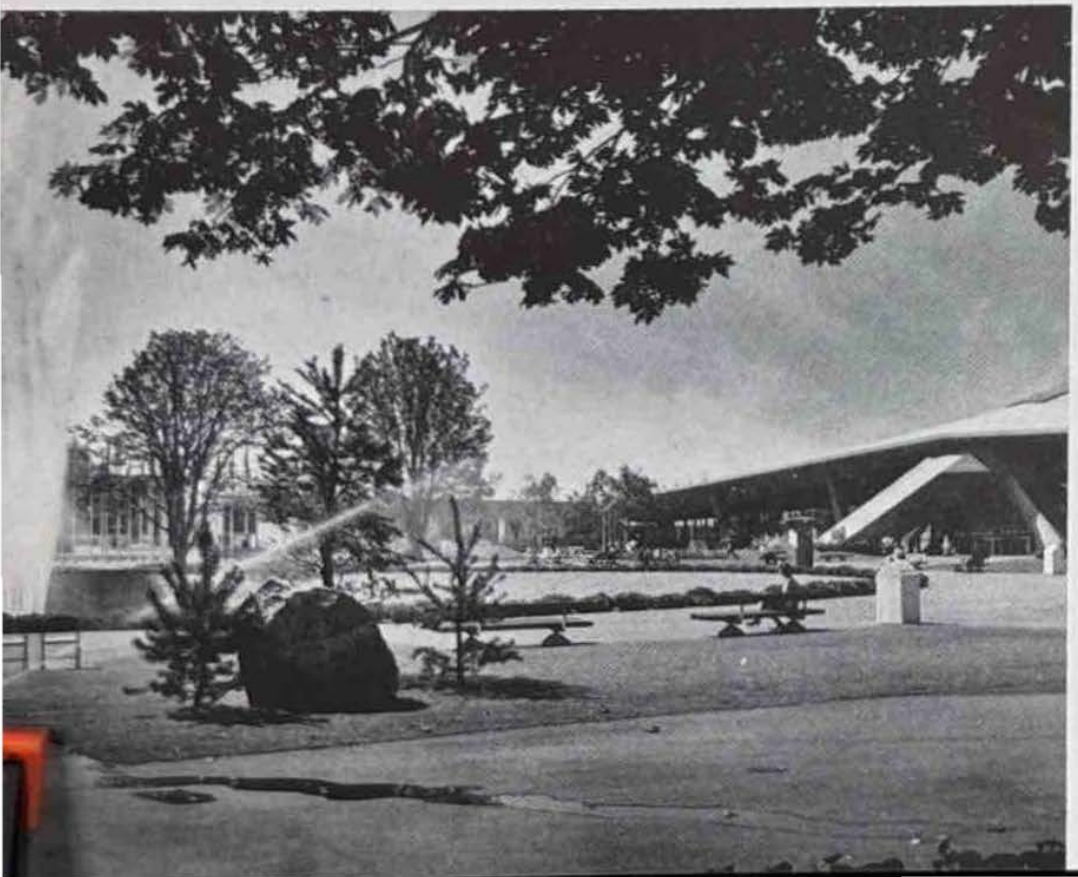


After the Fair . . .

Hootenanny!

WORLD'S FAIR SITE REORIENTED

SEATTLE, after the 10-millionth person had left the World's Fair site, faced three possible courses for use of the grounds and buildings. There had been well-phrased promises that this would become a charming and useful Seattle Center replete with recreational and cultural atmosphere for all, and with big league convention facilities to help pay the bill.



Such promises were easy in the monied heydays of a fair that was successful beyond all dreams. But there were two other courses in the letdown after the big show. The whole thing could be dropped and forgotten, or it could be turned over to the fast buck promoters.

It was not. Slowly, almost too slowly, new plans were formulated and the wheels began to grind. Seattle acquired its grounds and buildings. A non-profit corporation, Century 21 Center, Inc., comprised of many of the officials who made the World's Fair successful was formed to "convert the grounds into something that would be a source of new and creative activities . . . and to stimulate the permanent year-around use of the Center."

Temporary buildings were removed, areas were paved for on-grounds parking. New vistas were opened up. Primary Architect Paul

FORM A PERMANENT SEATTLE CENTER

Thiry, and Lawrence Halprin, landscape architect, created a Tivoli Gardens effect in a wandering layout of new lagoons and fountains stretching from the Science Center to the Space Needle, the area dotted with widely spaced amusement rides. The Coliseum "Bubbleator" was moved into a more neatly-organized Food Circus. The Coliseum is being converted into an 18,000-seat sports and convention center. Cultural exhibits are occupying many of the permanent builidngs. The science exhibits, Space Needle, Monorail, Opera House and Playhouse facilities operate as of yore.

How has Seattle reacted? Surfeited with shows last year, the citizenry has responded slowly but increasingly to its new Center. They drift in by the hundreds, instead of by the thousands (except for the weekly Hootenanny by the Horiuchi mural, when the crowds reach 10,000), but they drift in steadily and increasingly. In the words of Maurice Mitchell, president of Encyclopedia Brittanica, which will describe the center in its next issue:

"Seattle has kept the World's Fair spirit without grabbing at the obvious and reaching purely for commercial success. It is a cultural show as well as a 'good time'."

A/W Staff Photos

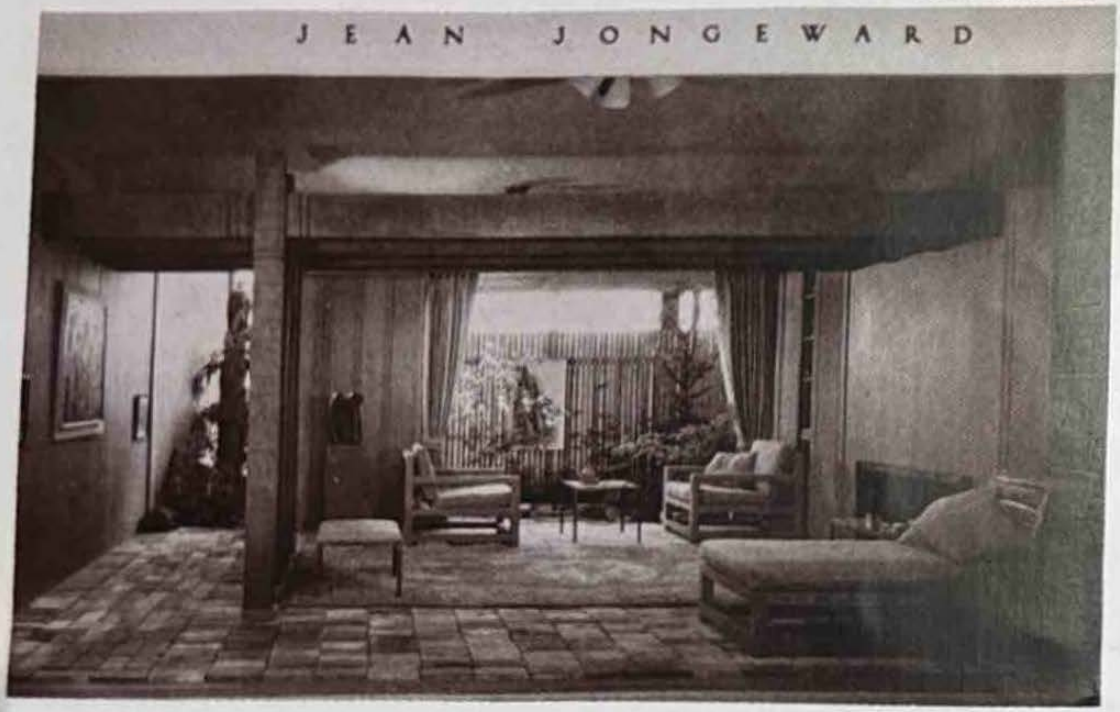
Hal Porter Photo

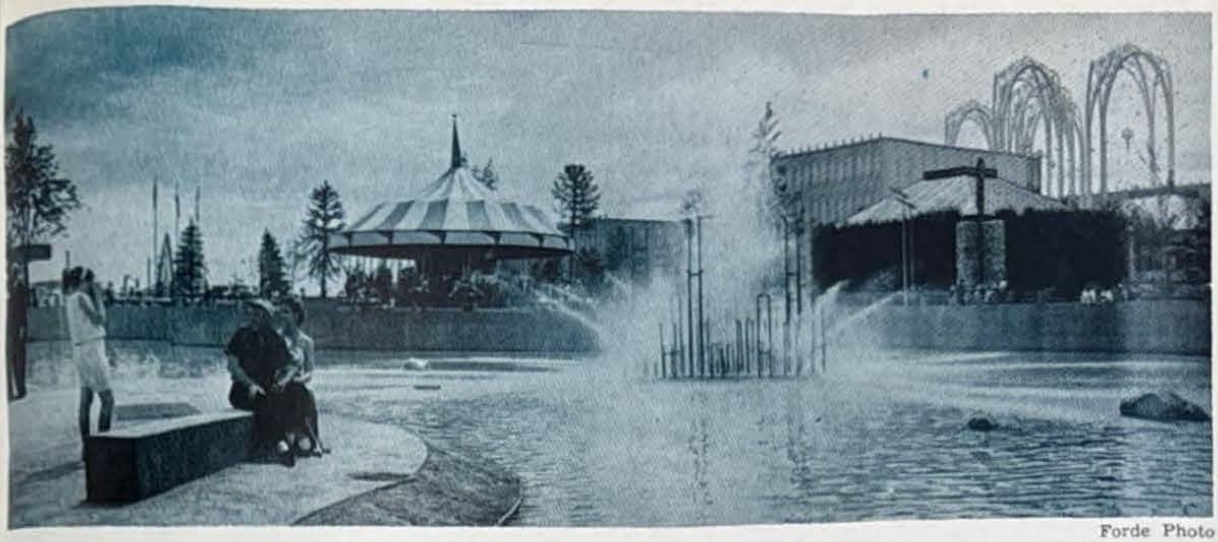
Sales outlet for the Northwest Craft Center occupies the former Swedish Pavilion. Adjacent is the working craft demonstration center, former Danish Pavilion (both in one of Paul Thiry's Coliseum perimeter structures). All articles are carefully screened as to professional quality, some are of museum calibre. Display techniques are lively and colorful, use of the building is excellent. Shown throughout 1963 season, permanent display is a possibility.

Fun, Frolic and Serious Recreation At Seattle Center

Design and Decoration Show in the colorful plastic-pyramid skylighted former Hall of Industry building by Robert Price presents complete room settings by members of the Washington District, American Institute of Designers. Open for three summer months with a 50c admission price, show has won popular approval despite some over-elaborate presentations *(see page 34).*

Vern Green Photo



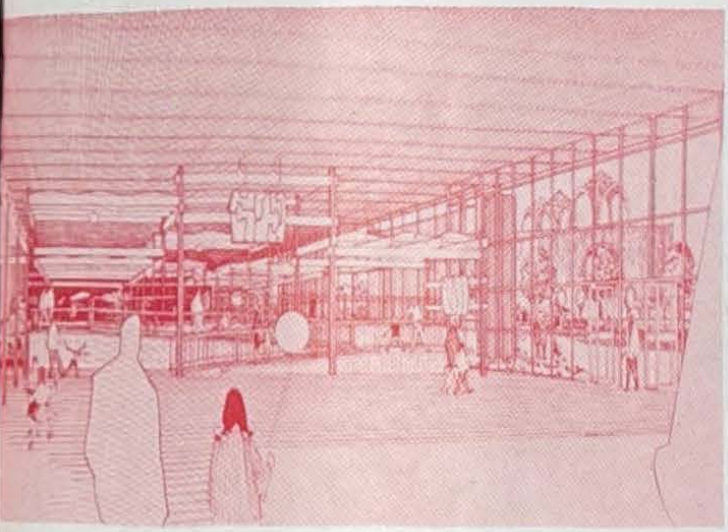


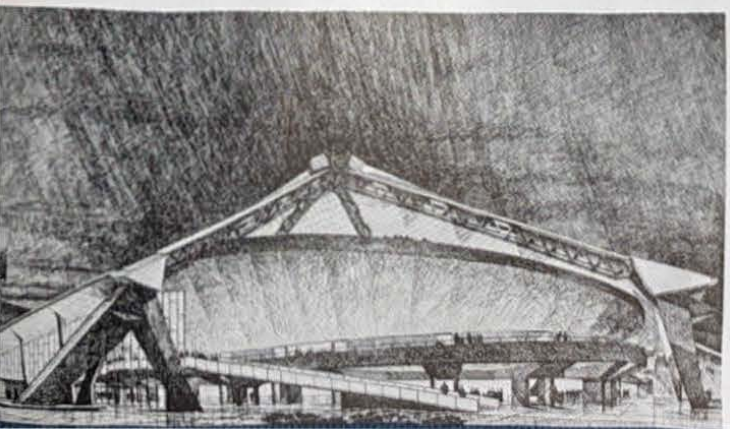
Forde Photo

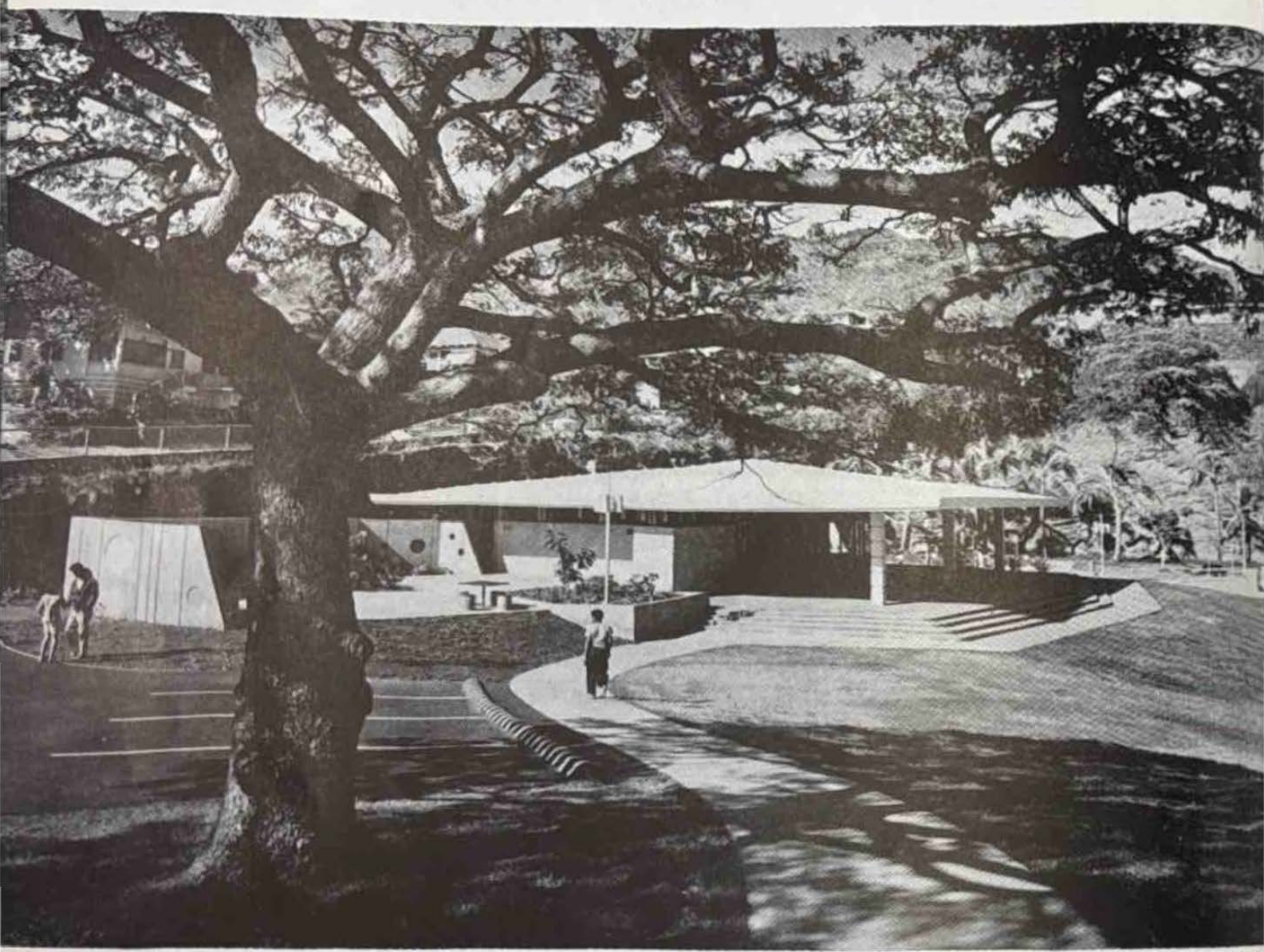
With many exhibit buildings removed, the area westward from the base of the Space Needle has been graced with meandering lagoons and moats of water, flagstone pathways amidst aspen trees, new fountains (such as the above creation of pipes and lawn sprinklers), and dotted with pleasantly spaced amusement rides that themselves are freshly and sleekly designed for the age of tomorrow. This "Fun Forest" in a garden setting was planned to create an atmosphere reminiscent of the famous Tivoli Gardens of Copenhagen. Whether it has succeeded depends upon the viewer's powers of imagination, but in its own right it is a charming area that provides carnival facilities without one vestige of "hony-tonk". Adjacent, shown in the sketch below, is the Fun Circus, former Domestic Commerce Building by Waldron & Dietz. Here are kiddie rides and Bulgy the Whale in a new interior scaled to children's sizes, fireproofed and colorful with aluminum sheet ceilings and gay acrylic plastics. Signs by William Frost, and plastic pyramid domes add to the gaiety of a building that is all fun.

A/W Staff Photos

Steel tube and canvas concessionaire kiosks have been replaced with pleasing and functional wooden structures with candy stripe doors. Flower baskets above steel tubes are reminiscent of Victoria, B.C. Tree-shaded walkways with contemplation benches remain, and at lower left, Paul Thiry's Coliseum houses cranes and backhoes and bulldozers as it is being converted to an 18,000-seat sports and convention arena.







R. Wenkham Photo

Two Acres of Fun on a Converted Barren Sand Lot

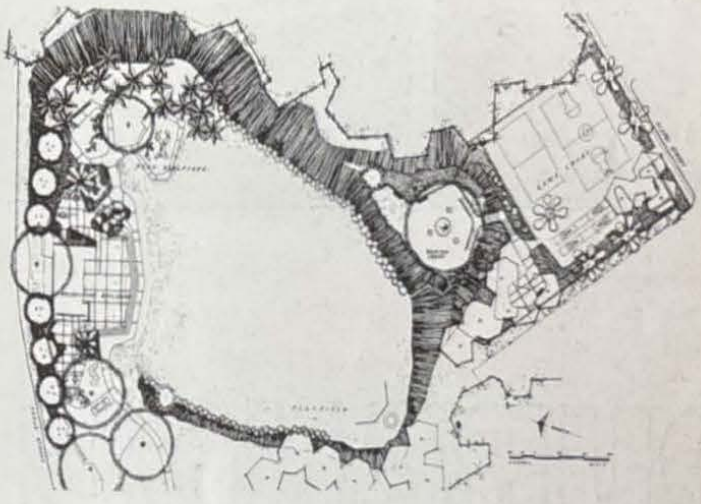
DOLE PLAYGROUND
Punch Bowl Crater, Honolulu
Lemmon, Freeth, Haines & Jones
Architects

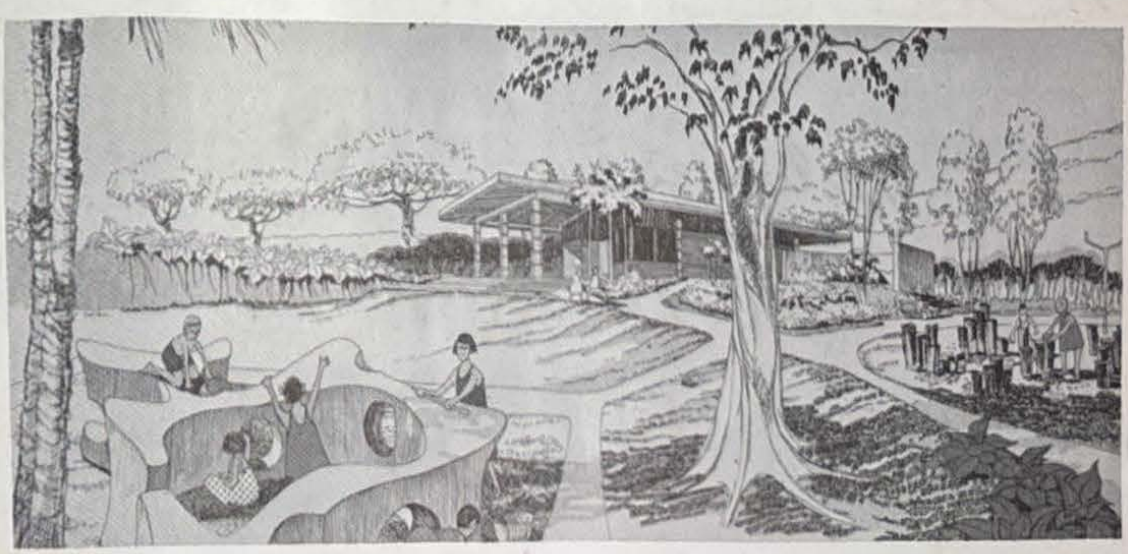
AN AREA FOR FROLICKING ADULTS as well as for juniors and for children is provided in this transformed barren lot—the old and now new Dole Playfield in Honolulu.

Adults have space for cooking, dancing, music and craft classes outdoors and in an impressively neat building of concrete, cedar and Terne metal roof. Adjacent are landscaped grounds and play beds of sand outfitted with a unique freeform concrete crawl-through sculpture and fascinating jumping places made of sawed-up ex-telephone poles to delight the small fry.

The $96,000 conversion seems an outstanding example of much done for little. The old 2-acre quarry lot bounded by two streets and two cliffs contains restful park areas, level playground courts for the juniors, and the play areas. It is a better coordinated playground than most, possibly because money was available at one time for completion of all facilities, landscaping and construction of play apparatus.

Cost breakdown was: Building, $36,000; sculpture, $6,000; plantings, $4,800; site work and utilities, $47,900. Play sculpture by Edward Brownlee. Landscaping by Don Austin.





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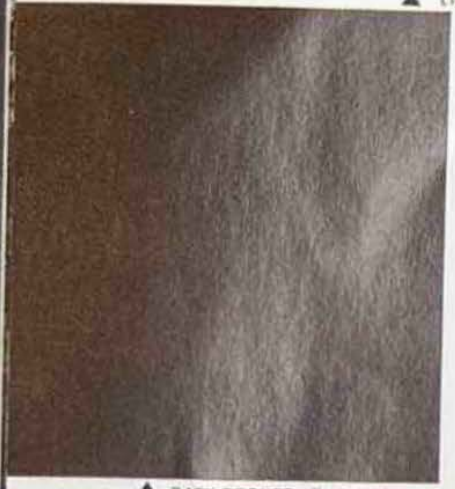
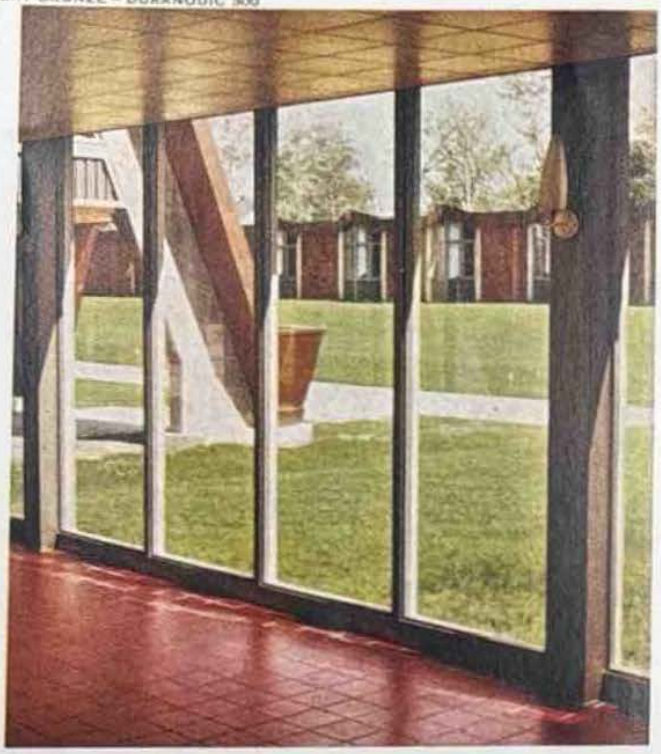
MEDIUM BRONZE – DURANODIC 300 ▲



▲ DARK BRONZE – DURANODIC 300



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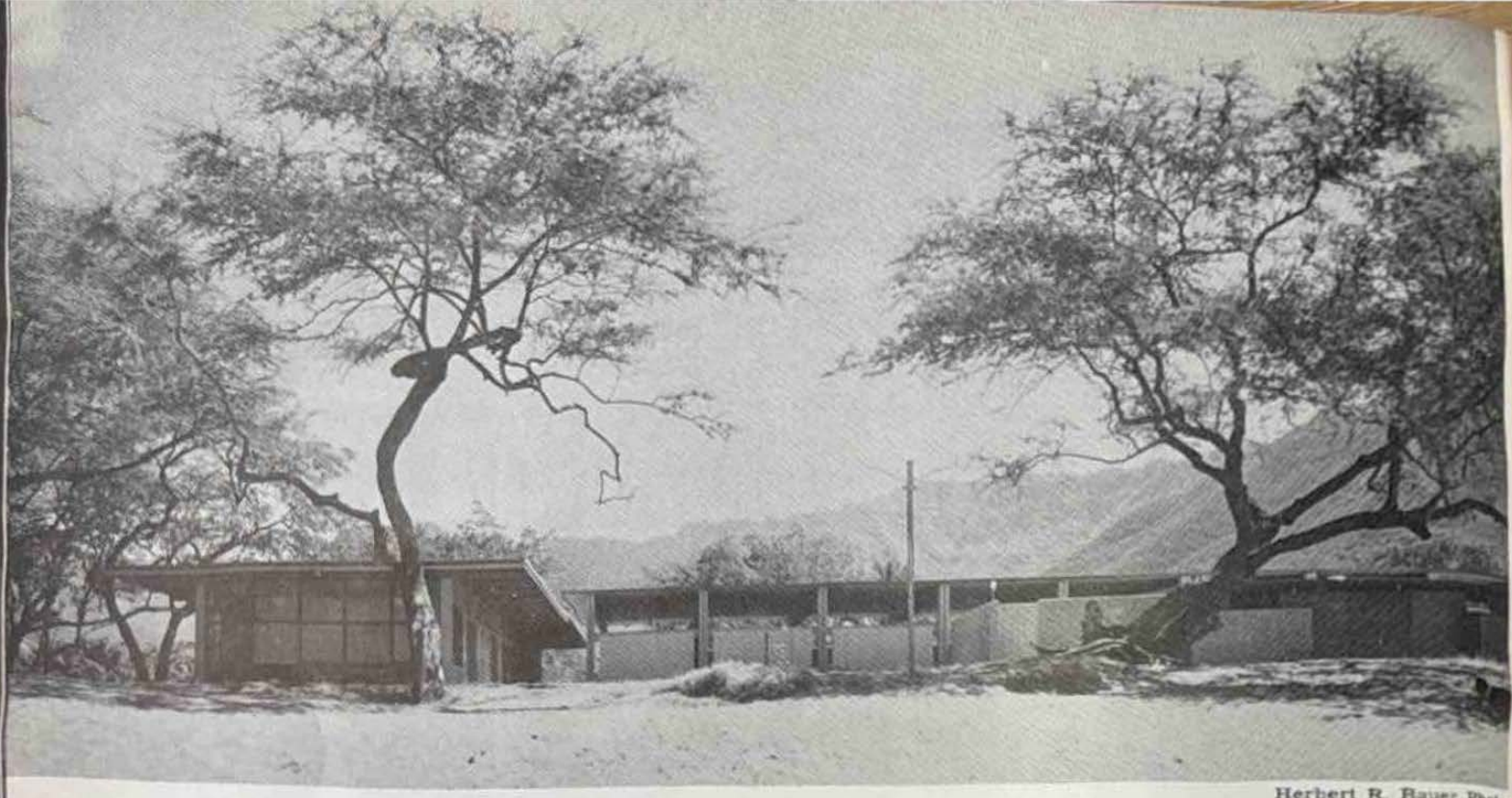


Herbert R. Bauer Photo

Recreation Facility for an Isolated "Outer Beach"

HAWAIIAN RESIDENTS, disenchanted with the crowds at Waikiki, head to the outer beaches for recreation, so the City and County of Honolulu has made quite a study of indestructible (?) construction of facilities at isolated sites.

At Kalanianaole a 6,800 square foot building of concrete, concrete block, glued laminated beams and combed Tindeck roof decking provides dressing and wash rooms for bathers, an office, craft rooms, kitchen and an eating or meeting pavilion that will seat 250 persons.

There are no doors, because doors can be carried away. Toilets are concrete pods. Shower columns have vandalproof heads. Seats are poured in place concrete. Even the clothes pegs are built into the walls.

Yet with all this preoccupation with rugged strength, the building is attractive and inviting. Lines are low and blended with the sandy, sloping site. Roof overhangs and open doorways—even the concrete block, which is a "cool" material—beckon and invite entry. Colors are buff and sandalwood, with one extension wall painted black.

Attention also was given to the reduction of maintenance. Dressing rooms have open ceilings to give the sun a chance to discourage dirt and fungi. Washed gravel was placed all around the building to prevent dirt from being tracked inside. Tables and seats are stored, along with play equipment, in a custodian's room.

Trees are Hawaii's scrub brush, Keawe. All other landscaping by Paul Weissich. Cost of the project: $55,446.

KALANIANAOLE BEACH
PARK PAVILION
Maile, Oahu

Lemmon, Freeth, Hains & Jones
Architects

Abe Contracting Co.
General Contractor

Art Hupy Photos

Aspen Inn Does Not Try to Over-Awe Mother Nature

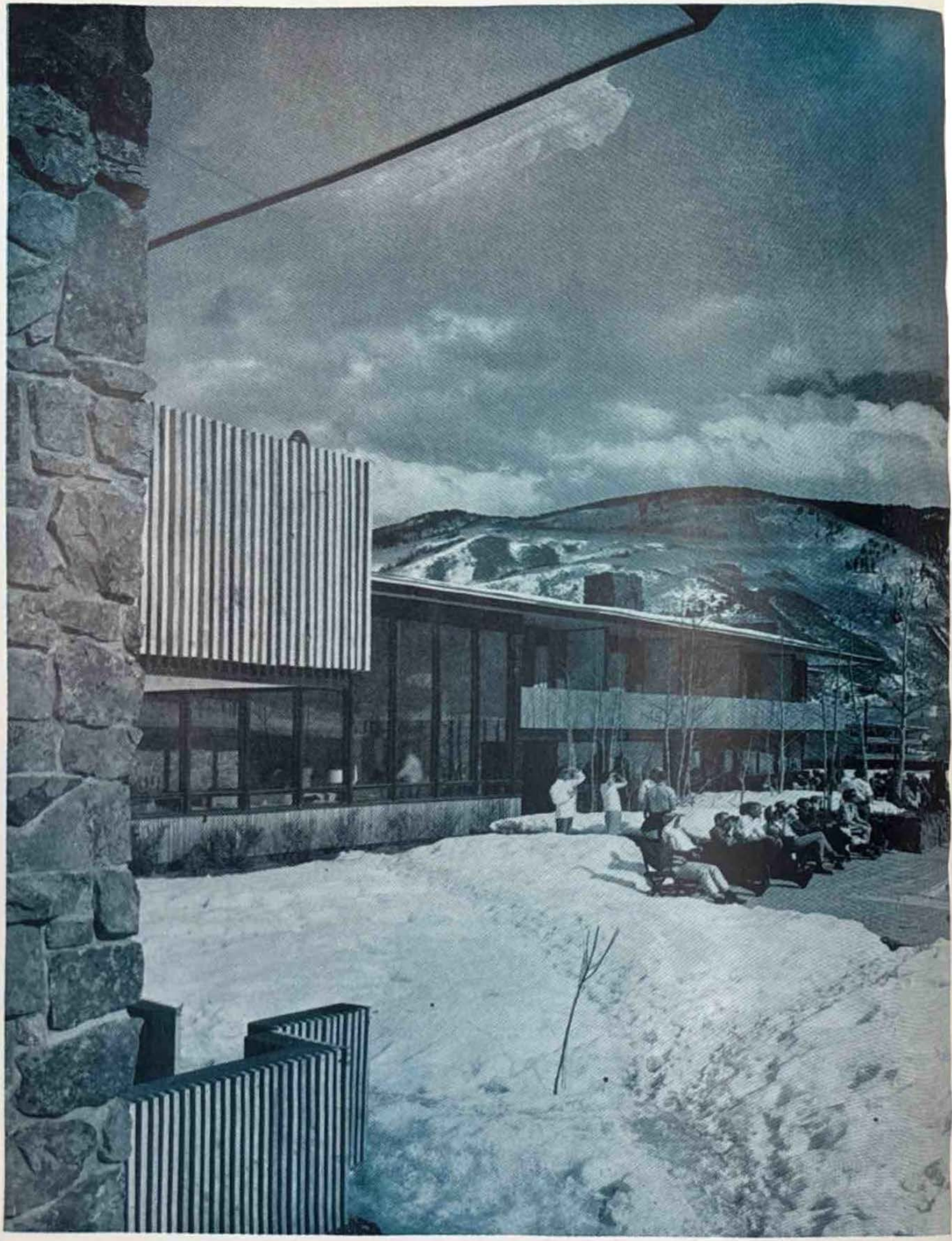
CATERING TO THE SNOW BUNNIES is a demanding occupation that requires more than a provident cooperation by the weatherman. Skiers may follow the snow, but they tend to follow it to the most attractive and convient environments, expemplified not only in the ski tows, but in the lodges themselves.

Aspen, Colorado, is a notable skiing terrain and it abounds in lodges and in townsite dining facilities.

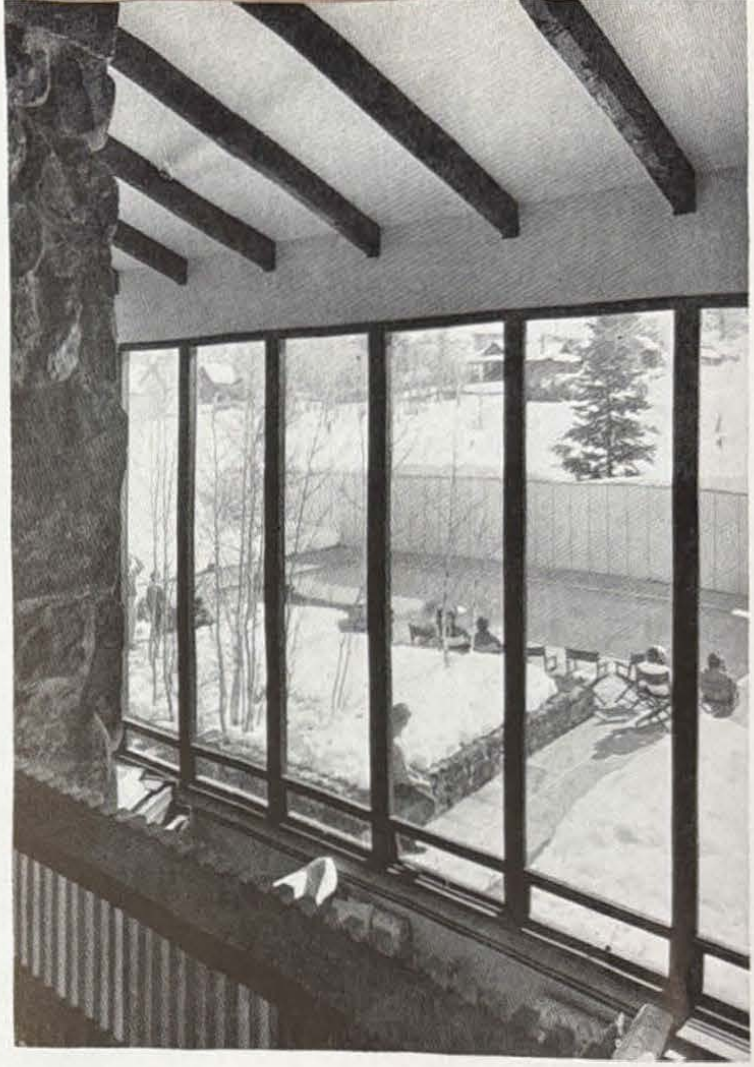
The new Aspen Inn combines large rooms, an impressive two-story lounge, a pleasant dining room, a luncheon terrace at the foot of a ski slope, and well-oriented balconies (on both levels and both sides of the rooms) for sunning and for viewing both the scenery and the activities.

Balconies on the view side are afforded privacy by dividers, while balconies on the north—or non-view—side are used as passageways to the rooms. This concept, which permits cars to be parked close to the rooms and entry without passing through a central lobby is considered more popular, particularly in summer, than a hotel-lobby concept would be. It further allowed more usable space in a narrower and better looking building than would have been possible otherwise.

The building, of sandstone and Engleman spruce rough sawn boards, has a low pitched roof built up with red sandstone chips, and is sited amidst a grove of existing Aspen trees. Interiors are channel-lap cedar and gypsum board, with good usage of Pella wood folding doors. Baths are of Formica and ceramic tile . . . all in a treatment that is more modern than traditional Alpine, yet is suitably rugged for its surrounding terrain.



Fun and Frolic . . .



ASPEN INN

Aspen, Colorado

Fredric Benedict

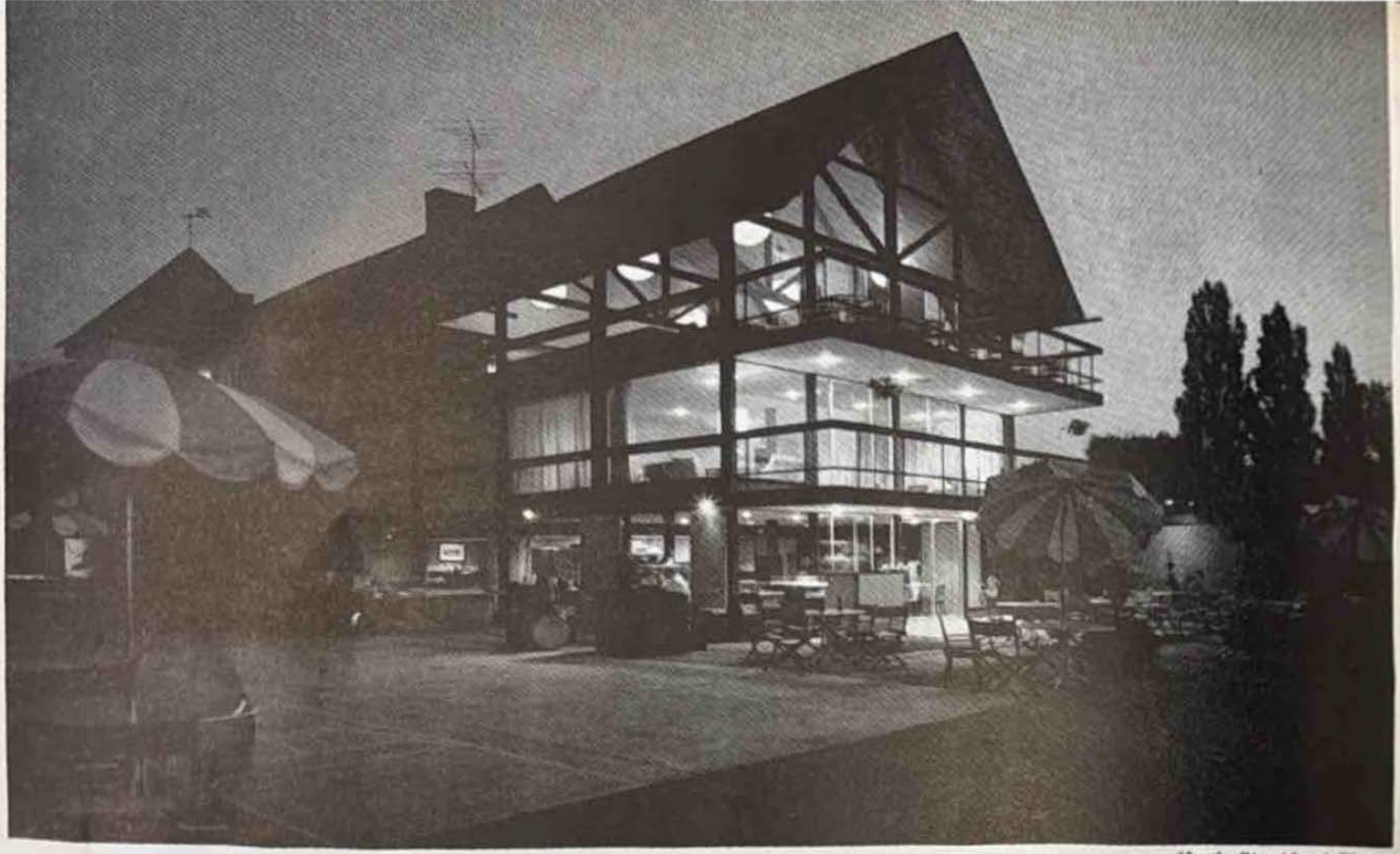
Architect

William Salada

Structural Engineer

Alpine Construction Co.

General Contractor



Hugh Stratford Photos

Swimming, Golfing, Dancing, Dining on Four Levels

"Color was needed to add sparkle to a building that is big and 'beamy'. To bring the high-ceilinged, heavy beamed ballroom down to human scale, powerful patterns and colors were adopted. Lights were selected to avoid accenting the ceiling. In the lounge, cool blues, greens and lavenders were selected to make the room seem larger and to subdue the interior in favor of the tremendous night view."—Arthur Morgan .

COMMUNITY CLUB FACILITIES are put together by committees, and we all know the story about the horse that was designed by a committee and came out looking like an elephant, so it is refreshing to find such a community project in which the architects were given sufficient freedom to provide well integrated facilities that are both functional and attractive.

This is an addition and renovating job that had a lot of "primary" requisites. Swimmers, golfers, diners, dancers, children, teenagers and adults all to have facilities separated yet integrated, and with the terraces and public rooms taking utmost advantage of spectacular views across Lake Washington.

Thus the addition is four-level, developed over a four year planning and construction period that took place in three stages, totaling $450,000.

In Phase 1 the pool area was developed on two levels, a children's wading pool and an adult pool 40 by 75 feet. The area is surrounded with exposed aggregate slabs with integral color, non-slip surface, protected against wind by a glass screen wall that does not obstruct the view.

On the lowest level of the building are swimming facilities and a teen-age canteen and meeting room.

On the next floor there are food and liquor service facilities and the golfers' area, including an exposed aggregate outdoor dining slab, shuffleboard and a casual view of the swimming pool, lake and mountains.

Fun and Frolic . . .

SANDPOINT COUNTRY CLUB
Seattle, Washington

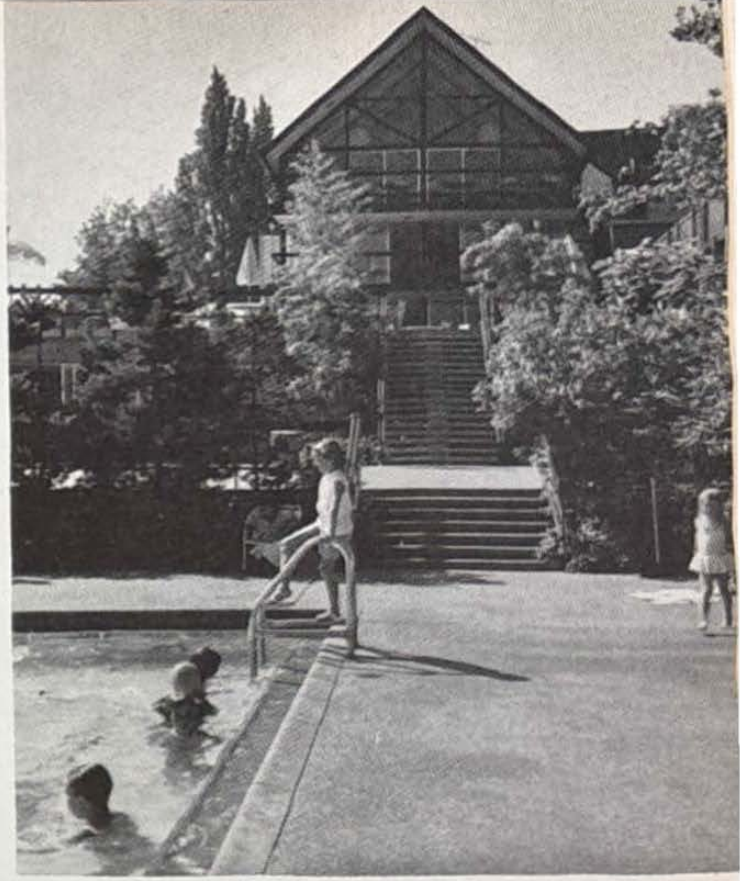
Bystrom & Greco, architects

Arthur Morgan, Designers, Inc.

William G. Teufel, landscaping architect

North Coast Construction, Strand, Inc., W. G. Clark
General Contractors, Three Phases

John Broadfoot
Pool Contractor

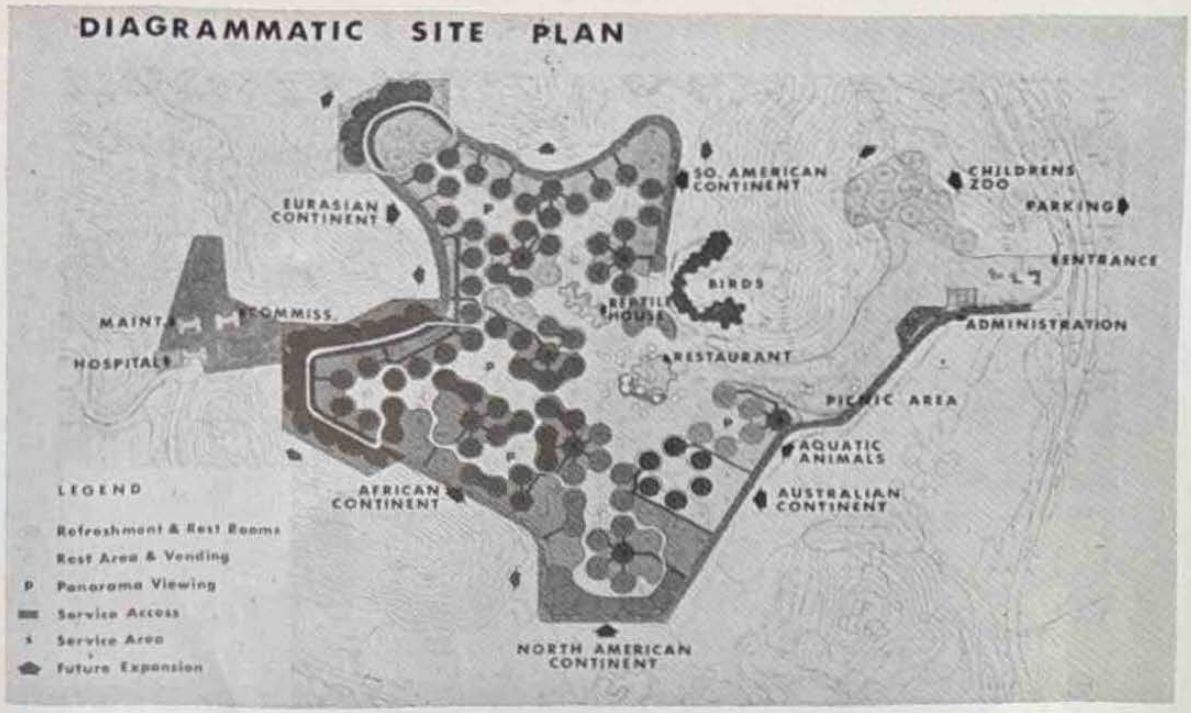


A mezzanine level has women's golfing locker rooms, powder room and a lounge with a view deck. The top floor has dining and ballrooms, cocktail bar and lounge, all opened to view of the golf course, the pool, the lake and the mountains.

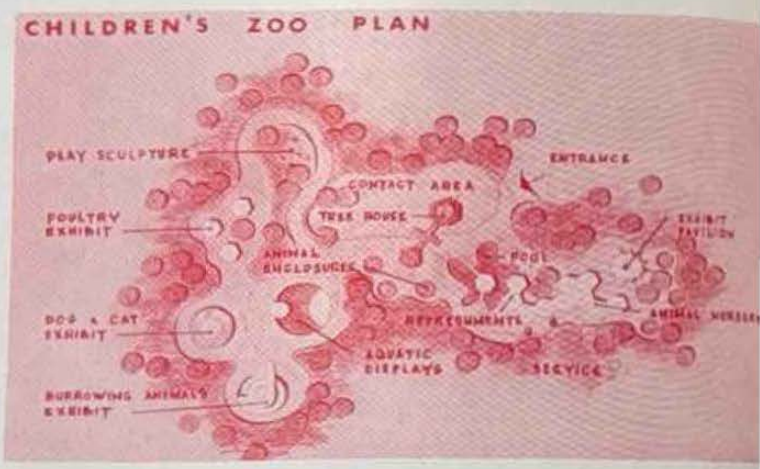
Phase 2 was the construction of the four story wing. This addition respects the character of the existing building, with similar framing methods, materials and finishes to make a harmonious transition. Trusses frame the top level to repeat existing truss details. Exterior wall are stucco; roof is red cedar shingles, interior walls are plaster; ceilings acoustical plaster; floor predominately carpeted except ceramic tile in high traffic areas.

The third phase involved opening up some existing walls for a better outlook, and the interior decorating. The high trussed roof ceiling angular details are exposed and relieved with spherical lighting fixtures. Lower-ceilinged alcoves have acoustical ceilings and movable partitions for private parties. An existing fireplace was faced in marble and emphasized with a decorative hood, the hood detail repeated at the opposite end of the room in a canopy over the bandstand. Heavy wood trim and battens harmonize with the wood trusses. Floors are richly carpeted with a removable section over the dance floor. Walls are covered with an exciting pattern of colored felt strips.

A new entry was created in truss style and with exposed aggregate slabs and steps to repeat the details of other areas of the building.



Plan for five continents of animals



LOS ANGELES ZOO

Charles Luckman Associates

Zoos traditionally or opportunistically have been planned for animals. Greatest consideration has been afforded the maintenance of animals—lions and tigers, for instance, grouped in a "cat" house—to simplify the feeding and handling of the "type" of animal. Consideration of the viewing public has been almost secondary.

In Los Angeles, architects' plans for a new zoo, to be the largest and most complete in the world, have completely reversed this tradition. The architects, cooperating with world renowned zoologists and curators, are developing a continental type of zoo whereby animals indigenous to world geographical areas are grouped together. There will be a North American Continent, an African Continent, South American Continent and Australian Continent. Only birds, reptiles and aquatic animals will be grouped by "types", for obvious reasons of expediency.

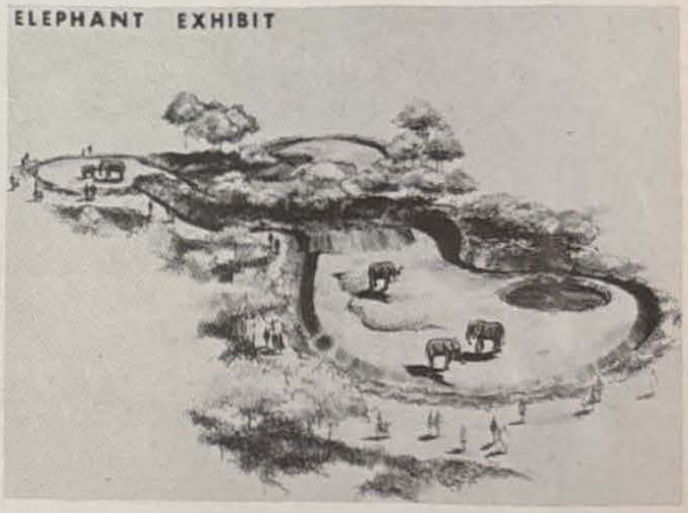
The complex will include a special children's zoo area of some three acres where youngsters may touch and feed animals that are adapted to such treatment.

In another departure from conventional treatment the Los Angeles Zoo will take advantage of the natural hilly terrain of the Griffith Park site to provide a two level approach to the study of "continents" of animals. Land contours and a series of bridges (two of which will span the entire 65-acre site) will allow both eye-level and bird's-eye viewing. Even giraffes may be looked down upon from above.

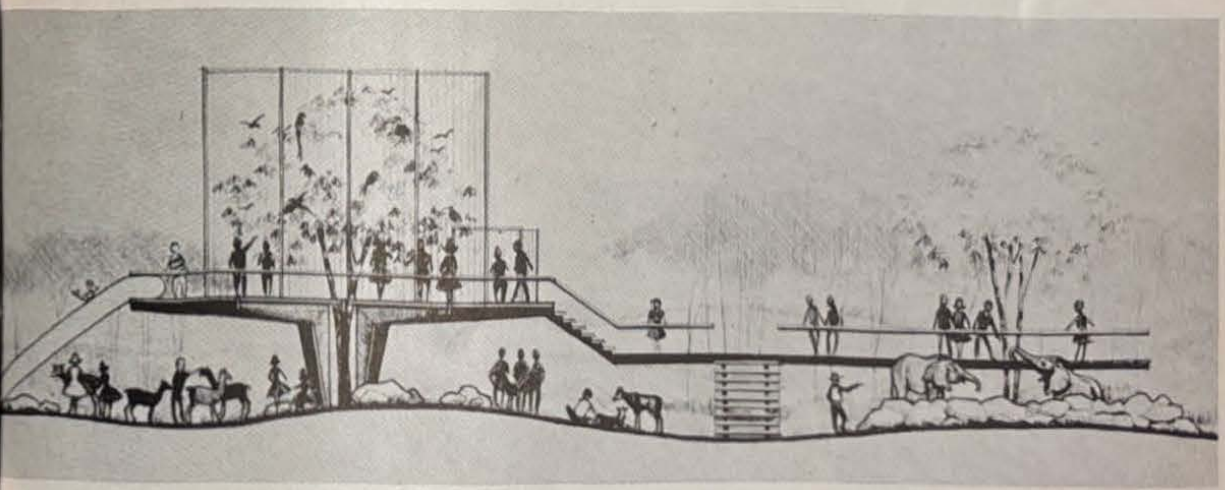
For maximum public participation and education, the design will give the illusion of walking through, over and around an African plain and other panoramas filled with animals native to the habitat. Maintenance facilities and service roads will be located on the perimeters and landscaped for concealment so that they will not distract from the natural atmosphere.

Target date for the $6.6 million job is July 4, 1964.

Natural hilly terrain of Griffith Park will aid the planners in their efforts to achieve realism in the geographic "continents", and will simplify the means for providing two-level viewing of animals in their natural habitat. In return, even the giraffes will at last see humans from two perspectives!



Elephants will have their tender jungles, sand and watering holes. In the children's zoo, below, children may mingle with gentle fawns, feed the baby elephants, and have closeups of colorful and exotic birds. Gone forever is the concept of barred cubicles from which trapped animals stare morosely at rows of human faces.



Methods and Materials—

Expoxy-Coated High Strength Steel In Unique Cage

ANIMAL LAND
NEW OAKLAND (CALIF.) ZOO

Norris M. Gaddis, architect
John C. Lovejoy, associate architect

Akol Engineering Co.,
structural engineers

THE PEOPLE OF OAKLAND, visiting their modest but structurally exciting new zoo will have the feeling of seemingly walking through an aviary and all but fraternizing with the gibbons.

The Gibbon Cage, first of six new units, is a dramatically vertical structure that serves as an orientation focal point for the zoo as well as being ideally matched to the living habits of the animals and well suited for spectator viewing. It sets the architectural tone for the entire zoo and is intended to create a feeling of excitement and anticipation.

In form it is a modified hpyerbola of revolution based on a compression trunk of tubular steel, with high strength, small diameter tension cables on the perimeter. An umbrella type roof structure (47-foot diameter at the top) covers high level sleeping cages natural to arborial animals. Wire mesh is coated with an epoxy resin, rather than being galvanized. Epoxy is used to coat all metals and concrete, for that matter, permitting field welding, permanent coloring, and a greater degree of sanitation.

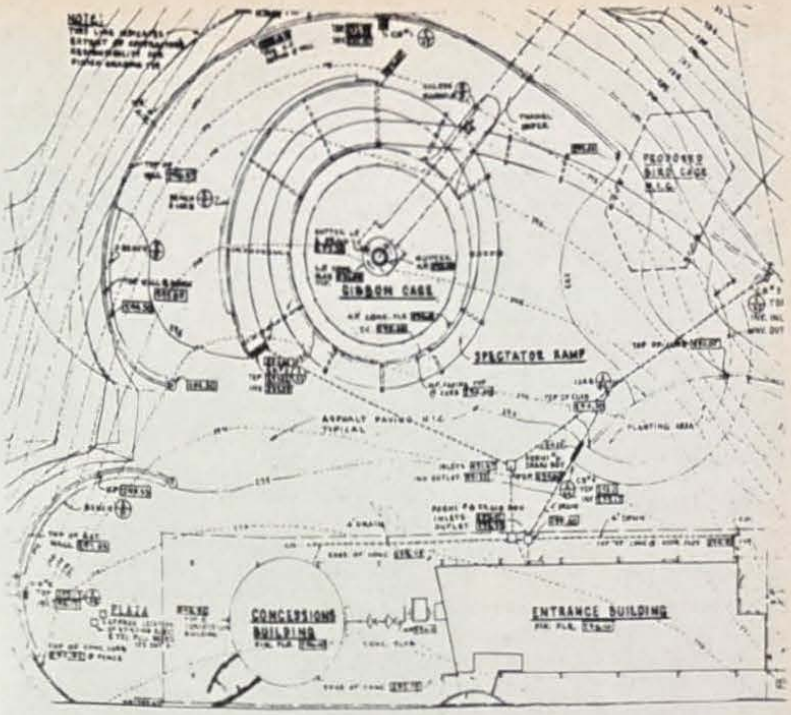
An entrance building, in the same contract with the gibbon cage, was designed to hug the ground as a foil to the verticality of the cage. Concessions are confined within the entry building, so that the zoo proper will be purely a zoo.

From the entry building a curving ramp climbs up and around the gibbon cage, providing view of the animals from all levels. The ramp then continues on into an aviary now under construction.

Maintenance of the gibbon cage is by access through underground tunnel and up the center of the tubular shaft.

Primate exhibit cages are designed to recall the circular motif of the gibbon cage and the existing elephant house. This exhibit, partially complete, consists of ten semi-circular cages arranged in free-form sequence. Tension cables are used in the monkey cages. Ape cages are modified for greater rigidity by small vertical I-beams between the stretched nettings of high strength steel mesh.

Another important feature not yet completed will be curvilinear sunshade-fascia in front of the exhibit places, keeping the spectators in shade and animals in sunlight — the most ideal viewing conditions.



The zoo, at Knowland State Arboretum and Park, is sponsored by the Oakland Park Commission and the East Bay Botanical and Zoological Society.

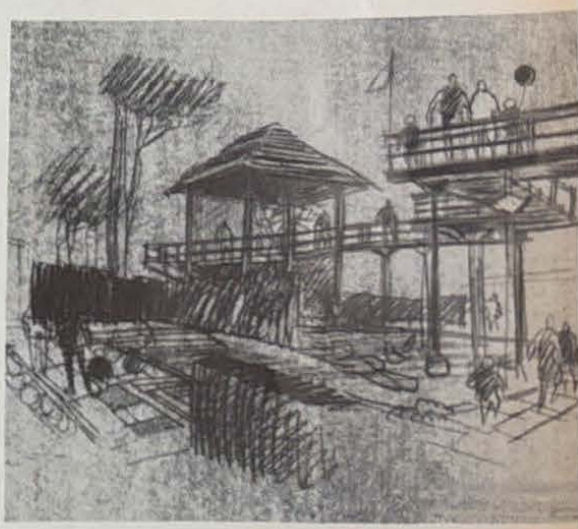
Fantasy or Fact?

Seattle Children's Zoo Plan Creates Controversy

In Seattle, the Park Board has seriously considered adding a special children's zoo adjacent to the Woodland Park Zoo. Staff members of the park department have prepared preliminary plans and sketches for their idea of a children's zoo: a nursery rhyme-story book fantasy. The Park Board voted to employ an architect as consultant and Fred Bassetti was named.

Bassetti, inventor of several children's toys, and whose firm has done noteworthy work in the educational field, was insistent that the focus be on the endless interest of young animal life. Although the Bassetti scheme made use of ramps and bridges so as to permit varying vistas of the animal compounds, it utilized simple native materials where the buildings were subordinated to the natural environment.

This subject has become a favorite for letters-to-the-editors. Sentiment—strictly from adults—leans towards the Mother Goose theme where references to Disneyland are recurrent. Newspapers quote Bassetti with "Fanciful buildings are more appropriate to an amusement park such as the developing Seattle Center than to a zoo". The Municipal Art Commission of Seattle has favored the natural approach.



FAIRYLAND versus Nature—two concepts of proposed Seattle Children's Zoo. Park Department architect sketched the Mother Goose idea; architect Fred Bassetti, the natural habitat plan.

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A completely monolithic, seamless-resilient flooring provides office, apartment, industrial, commercial buildings and homes with a flow of wall to wall beauty and durability. Torginol Duresque is a combination of scientifically prepared chips and liquid glaze that can be solidified over new or existing floors of wood, concrete or other firm surfaces. It can be applied to exteriors as well as interiors and is utilized as a coving and wainscot. Furnished in any combination of colors and patterns. — Torginol of America (A/W), 6115 Maywood Ave., Huntington Park, Calif.

cabinets and casework in color

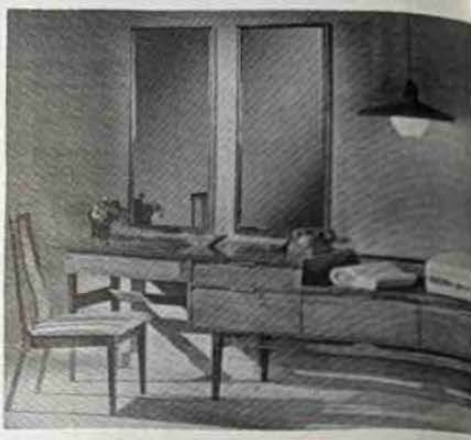
Twenty-one colors are offered in the Geneva steel cabinets and casework, with six new colors being added to the hospital line. Colors were chosen to harmonize with other colors and offer combinations for every use in schools, hotels, hospitals, other institutional kitchens, as well as in the home. Thirteen colors have been added to the Impasto finish, a textured-steel finish that is said to be virtually burn, stain, alkali and acid proof.—Geneva Industries (A/W), Geneva, Illinois.

warping guarantee

Fiberglas Sonocor acoustical ceiling boards now carry a five-year guarantee against warping in all approved types of ceiling installations. Made of light, warp-resistant acoustical insulation and faced with textured plastic film, the boards combine qualities of noise absorption, 75% light reflection and fire safety with beauty, easy installation, cleaning and maintenance. Sonocor boards are available in textured white, gold swirl and beige mist and in one-inch thick panels.—Owens-Corning Fiberglass Corp. (A/W) Toledo, Ohio.

shelf lites

Shelves with a built-in look combine with fluorescent lighting to become highly functional for use over desks, beds, serving tables, kitchen planning centers, and so on. Light is spilled upward to illuminate books, or decorative objects, and beams downward for close tasks. Bulb is completely shielded for glareless illumination. Shelves are 48¾" long by 10¼" deep and are finished in textured washable vinyl laminated to steel, in satin black and satin aluminum or brown, beige and satin aluminum. — Lightolier, 346 Claremont Ave., Jersey City 5, N.J.



fashion with function

To meet the needs of progressive hotel and motel owners designer Merton L. Gershun has created an American contemporary group, the Dania II, combining fashion awareness with down-to-earth function. Crafted of walnut with a tough, durable, matte lacquer finish, the group is light in scale, simple in line, and budget-priced. The triplex unit shown above is a multi-purpose chest incorporating a luggage stand, desk-vanity and drawer space. The group also includes beds, lounge chairs and occasional tables.—American Furniture Co., Inc. (A/W), Martinsville, Virginia.

precharged heating, cooling

Custom-Pak, a new line of precharged heating and air conditioning equipment for upflow and counterflow applications, is suited for homes, apartments, small commercial establishments. The heating and cooling package offers heating capacities from 60,000 to 120,000 BTU/HR and cooling capacities of 1½ to 3½ tons. Components are matched for efficiency and minimum maintenance. Refrigerant lines are precharged at factory eliminating field charging. Remote condensing unit is completely weatherproofed and carries a five-year warranty on the compressor.—Custom-Aire Products (A/W), 2045 Evans Ave., San Francisco.

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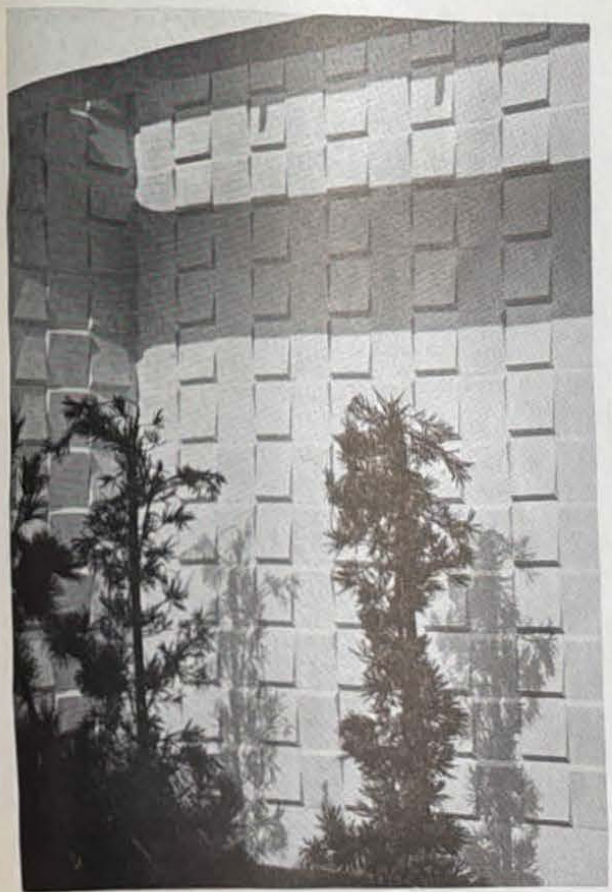

Bas-relief or incised patterns, in **Contours CV**, subtly vary the shadow-play as lighting changes, to give exterior walls unusual beauty and textural interest. Shown in the photos is a custom design used by architects Kite & Overpeck Associates on the new Hamilton Towers Building, Wilshire Blvd., Los Angeles. Design and die charges for any custom creation are nominal.

Thirteen standard designs (and matching flat-surfaced pieces) are also currently available, in nineteen colors ranging from rich tones to pale pastels. Many varied textural treatments thus are feasible, without the modest expense of custom creations.

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LITERATURE

Insulating Glass: gives information on standard sizes and specialty configurations, complete data on savings realized in air conditioning and heating costs in using insulating glass. 8-pp. —Thermoproof Glass Co., 4815 Cabot Ave., Detroit 10, Mich.

Rolling Aluminum Glass Doors (AIA 16-E): four-page brochure gives ordering and installation specifications for K-Slide Model 10 rolling aluminum glass doors with 5½-in. frame and integral trim fins for stucco and interior trim, and 3⅝-in. frame with trim adapters for all types exterior and interior trim. Specs provide for two, three or four panel doors with nominal sizes from 5 ft. to 20 ft. in 6 ft. 9 in. heights. Catalog No. K2-316. —Kendall Industries, 4581 Air Terminal Drive, Fresno, Calif.

Shatterproof Skylights: describes Marcolite skylights with shatterproof panels, constructed of fiberglass reinforced translucent structural panels and extruded aluminum frames. Preassembled units are ready for installation on delivery. Skylights require no maintenance, painting or replacing of parts because they do not crack, rust or corrode. Thermo-set panels retain full color and translucency, transmits an evenly balanced light over large areas, reduces harsh contrasts and eye fatigue. Brochure gives specifications and design data.—Marco Co., 45 Greenwood, East Orange, N.J.

Decorative Aluminum: presents details and illustrations of a new decorative perforated aluminum offering wide range of creative uses in designing and applications. Over 600,000 variations created through techniques of embossing, spin finishing and other methods combine with different sizes and patterns of perforations, for applications in interior decorating, appliance trim, architectural accents, furniture designing. 4 pp., full color.—Angellite Div., The Angell Mfg. Co., 242 Leo St., Dayton 4, Ohio.

Safety Flooring: presents complete information on rolled steel floor plate, designed to meet every application in which safe, heavy duty steel flooring is indicated (industrial, transportation and marine applications). Well illustrated, 8-page booklet gives full data on sizes available, allowable loads and applications. No. SD 628.—Alan Wood Steel Company, Floor Plate, Conshocken, Pa.

Acoustical Material Data Manual (AIA 39-B): contains complete and up-to-date information on acoustical materials and data on noise control in ceilings, walls and floors; fire-rated ceiling assemblies, including code requirements, UL tests and listings, product descriptions, lay-in panels and tile; installation specifications. Manual is a three-ring binder permitting material to be kept up-to-date as new material is available.—The Celotex Corp., 120 S. LaSalle St., Chicago 3, Ill.

Office Lighting: discusses benefits, principles, techniques, economies and other aspects of good office lighting in relation to total office environment. Treated separately are lighting techniques for general offices, private offices, conference rooms, drafting rooms, lobbies and reception areas, corridors and stairs, and office building exteriors.—Inquiry Bureau, General Electric Co., Dept. TP-114, Nela Park, Cleveland 12, Ohio.

Ceilings (AIA 39-B): details illustrations and information on acoustical tile, decorative tile and roof deck with patterns of Forestone and other ceiling tile illustrations. Information on sizes, thicknesses, joints and finishes included. 4-pp.—The Simpson Timber Co., 2040C Washington Bldg., Seattle 1.

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BOOKS

Interiors Book of Hotels and Motor Hotels. By Henry End. Whitney Library of Design, 18 E. 50th St., New York 22, N.Y. 1963. 264 pp. 238 illustrations. $16.50.

In-town, resort and international hotels and motor hotels are examined in detail and from the basis of chosen prototypes. Future of hotel design is discussed in last chapter. Each chapter is accompanied by photographic portfolio of type concerned. Mr. End's approach: what works is good, what does not should be changed or replaced. Views of leading hotel industry leaders and other designers are liberally quoted. Mr. End's knowledge of the field is evident in this authoritative new book.

Proceedings of the World Conference on Shell Structures. Building Research Advisory Board, 2101 Constitution Ave. N.W., Washington 25, D.C. 1963. $20.00.

Contains the nearly 70 papers presented at the conference, several papers not presented, summaries of the question and answer discussion periods, the text of the major address on urban design, and a listing of committees, members and contributing organizations.

Wood and Wood Finishes in Exterior Use. California Redwood Association, 576 Sacramento St., San Francisco 11, Calif. 1962. 81 pp. $1.00.

Comprehensive bibliography including not only published material but also unpublished material such as reports, notes, letters, etc. The abstracts were prepared by the U.S. Forest Products Laboratory, the California Forest Products Laboratory, and the California Redwood Association. The bibliography has been compiled to encourage development of improved exterior finishes for wood.

Schokbeton Precast Process To be Supplied by Kawneer

SCHOKBETON, the patented Dutch process for molding zero-slump mix into precast architectural concrete elements through low frequency impact "shocks", will be available throughout the West later this year. Kawneer Co., division of American Metal Climax, Inc., will engineer, manufacture and distribute nationally. Kawneer will be able to supply entire facades for building—not only the aluminum curtain walls but precast structural components as well. George J. Santry, former principal of Schokbeton, will continue as operating president of the new Kawneer subsidiary.

Schokbeton has been used in buildings by Yamasaki and Belluschi. It can be cast in sizes up to 12x40 ft., yet with delicate design detail. The process was used for the exterior of the Police Administration Building in Philadelphia; in the IBM building in Kalamazoo, Container Corp., Clear Lake, Illinois; American Cyanamid, New Jersey; Sperry-Rand, Rockefeller Center, New York City, and many other notable structures.

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OROVILLE
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MANUFACTURERS/SUPPLIERS

• **Blue Diamond Div., Flintkote Co.:** Several changes in personnel have been announced by N. J. Redmond, president, Los Angeles. T. L. Donoghue has become vice president in charge of marketing and production; William B. Coleman is manager of sales and operations in the concrete products division; Harold S. Dilon, manager of marketing, gypsum division; and William Seitz, manager of sales, gypsum division.

• **United States Gypsum Co.:** John R. Anderberg has been promoted to Western Regional Sales Manager succeeding Edward L. Busch who has been transferred to Chicago as dealer sales manager. Formerly Los Angeles division manager, Anderberg will headquarter at the Los Angeles western division, 2322 W. Third St.

• **Aluminum Extrusions, Inc.:** Irving Lind has been named sales manager, western region, for the Charlotte, Michigan firm's OMNI division. Mr. Lind will be located at 779 Gailen Ave., Palo Alto, with responsibility for sales in the 12 western states and for Showroom Accounts in Los Angeles and San Francisco.

• **Portland Cement Association:** Effective July 1, Western Regional Headquarters were moved from Los Angeles to 235 Montgomery St., San Francisco. George M. Petzar, District Engineer for Arizona, has been named Western Regional Manager to succeed John M. McNerney, on leave.

• **Libbey-Owens-Ford Glass Co.:** construction is under way on a multi-million dollar factory near Lathrop, California, to produce glass by the newly developed float process, it has been announced by Curtis W. Davis, president. The new plant will be adjacent to the company's present plant.

• **Kaiser Aluminum & Chemical Sales, Inc.:** James J. Larkin has been named assistant manager of the Architectural Sales Dept., moving to the Kaiser headquarters at Oakland. He has been regional architectural representative in New York until the new appointment.

• **General Electric Co.:** A new Textolite laminated plastic distribution center has been opened at 2663 Malt Avenue to serve the greater Los Angeles area.

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IT IS WITH A TRACE OF DISMAY and nostalgia for th good old days that we read of an IBM 1401 sched uling the work on the International Hotel at Lo Angeles International Airport. Sure it's a big jo with more than 6,000 item headings, and certainl they want the building completed and producin revenue pronto.

But how can you schedule a few good knock in the head and all of the carefully selected mule skinner words that should be part and parcel of an building project?

We're willing to go along with Critical Pat Methods, because they do seem to organize one' thinking, and of course you can always fudge bit or alter the path a little. But feed the CPM t a machine, and then let the machine schedule th work? And then discover work getting so far ahea of schedule—a 14-story hotel topped out six month after the first scoop of dirt from the foundations— that you have to feed more information to the IBM so that it can re-draft the schedule!

Better kiss the good old days goodbye and tak heart in the fact that the project manager still needed, to feed the information into the machine and to reprogram as he stories out, and by golly once in the while maybe in the dark of night, pu the plug a few times just to keep the upper han on who's really running the job.

• • •

A friendly criticism of the AID's Design an Decoration Show at Seattle Center: Many of th members of AID apparently are searching for rob ber barons who will dismantle and import Euro pean castles as fitting domiciles to be decorate The AIA lived in a similar world of illusion int the late 1920s, but more recently has been movin aggressively into the twentieth century. The recen developments of interior design as a major adjun in or associated with architectural offices show the handwriting on the wall. —A.O.B.

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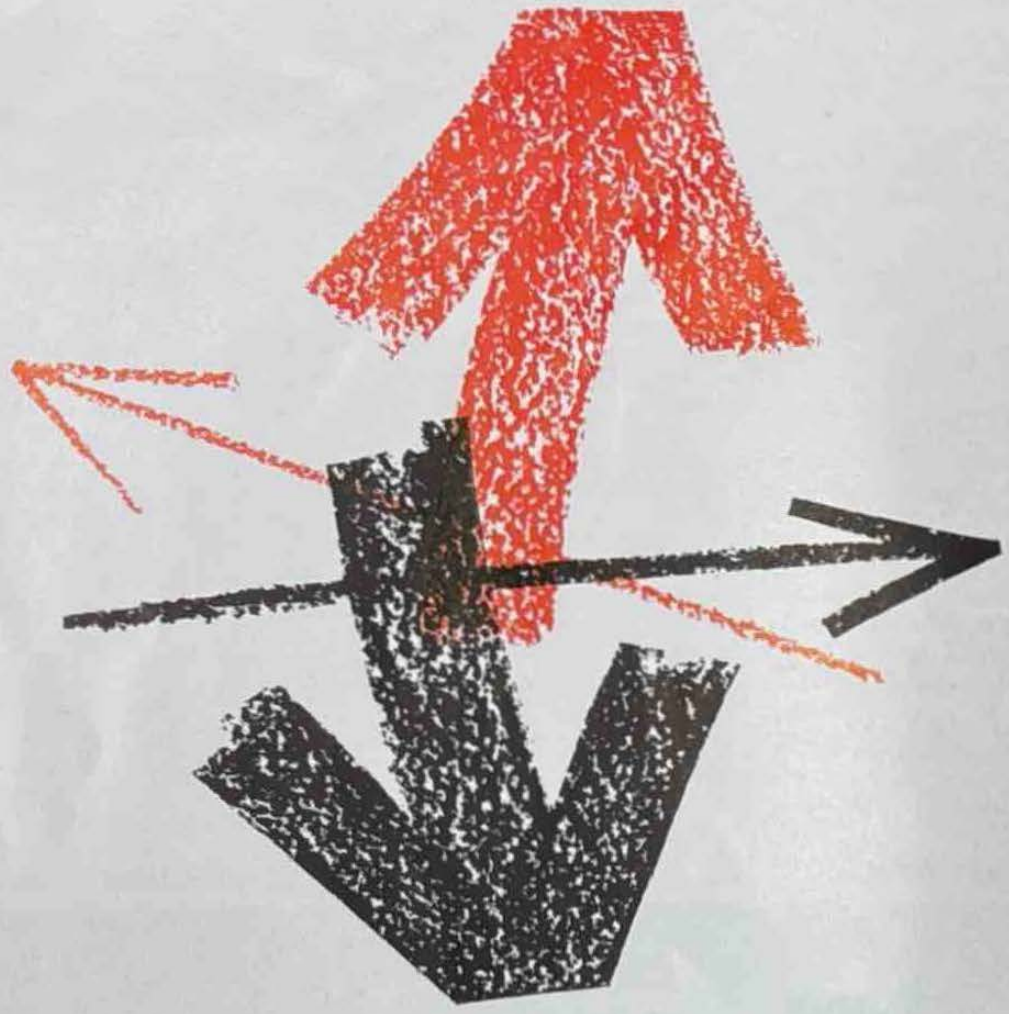

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Business data on page 34

COVER: Biochemistry Building, University of California Berkeley campus. George Cocallas photos. Story page 26.

ABOUT THIS ISSUE: For October we had assembled a number of interesting but entirely unrelated projects—we thought—only to discover that they are very much indeed related. All employ new techniques and applications in precast, prestressed concrete construction.

So — our Concrete Issue. The chapel at La Verne, California (page 19), is almost massive in structure, yet light and lovely in appearance — well matched to the heavy trunks and lacy branches of the surrounding Camphor trees. The school in Portland is a traditionally institutional type of building required to conform with its neighborhood, but it is a good one utilizing the best in prestressed techniques, both structurally and in design. Butternut Coffee plant is successfully pleasing in appearance and function, with its acres of paraboloids, precast flat sections and wall panels; while the Biochemistry Building at Berkeley utilized precast structural panels with exposed aggregates in a race against time that resulted in a 2½ days per floor around a 440-foot perimeter.

Ahead of all these—a staff report of doings of the Regional AIA Conferences at Tacoma and Jackson Hole, highlighted by a penetrating keynote speech made by New Orleans architect - planner, Charles Colbert, FAIA, at the Northwest session.

LAST MONTH: We overlooked Roland Terry, Seattle architect (who hasn't complained, but we apologize anyway) in handing out credits for the successful conversion of the Seattle World's Fair site to a Seattle Center. He was responsible for design and planning of many aspects of the Center, ranging from the store entrances at the Food Circus, the many kiosks, the Hawaiian Development center, midway buildings, the Hawaiian center remodeling, the Fun Forest and much of the landscaping throughout.

ECHO GLEN CHILDREN'S CENTER—In a spirit of warmth, understanding and pioneering, the State of Washington is planning a program that will provide a coeducational juvenile facility for delinquent youngsters, between the ages of 8 and 13, who are committed by the Juvenile Courts to the State. Ralf E. Decker & Associates, Seattle architectural firm, have had the "go-ahead" to produce working drawings, with stress on an atmosphere free of fear where a child may have the opportunity to act as a normal child in surroundings as close to home life as possible. On a state-owned site of 838 acres (ample for expansion), the Beaver Valley location is some 25 miles east of Seattle, near Preston, Washington. A small natural lake centers the proposed development, heavily surrounded by Douglas fir trees. School, designed to accommodate 12 to a classroom, and recreational facilities are planned on coeducational basis.

Cottage living will be the hub of the treatment program with each cottage accommodating 16 youngsters and a cottage parent. The center will accommodate 208 youngsters. It will replace the Luther Burbank School for Boys, in irreparable condition, and the overcrowded Martha Washington School of Girls, located in an area now hemmed in by private residences. Staff personnel will be approximately 100 with on-site residential facilities for key personnel, including some bachelor quarters, all located across the lake to provide freedom from institutional duties. The architects have established a design critera with an appreciation for the scale and needs of the users.

Actual construction of the center must await a ballot at the next state legislative session.

BUILDING MATERIALS A GROWTH INDUSTRY—The prediction by R. V. Hansberger, president of Boise Cascade Corporation, that 16 million new homes will be built in the United States in the next 10 years, would represent construction expenditures of more than $220 billion. The forecast estimates that the demand for building materials is a large part of the function of the demand for residential housing, which is in turn affected by the rate of family formations and levels of family income, so that in the years ahead, building materials will become a growth industry. According to statistics, the highest rate of family formation occurs during the ages of 18 through 29, with an increase in this age group expected to be 41% by 1970 and 75% by 1975. Many of these young people will be prospective home buyers and many will buy small inexpensive homes of factory-built components. Boise Cascade Corporation is one of the country's largest lumber, plywood, pulp and paper companies.

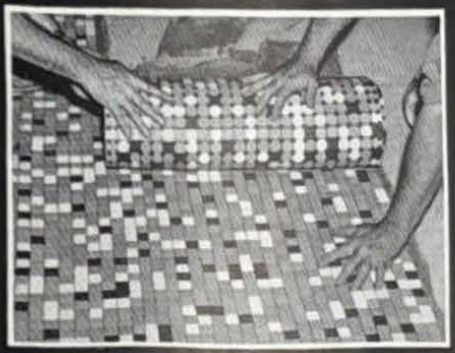
Highlights & Sidelights

PRESTRESSED CONCRETE INSTITUTE—Architectural applications of prestressed concrete will be highlight of the annual convention and conference of the Prestressed Concrete Institute, to be conducted in two sessions, the first at the Sheraton-Palace Hotel, San Francisco, Oct. 5-11, and the second in the Surfrider Hotel, Honolulu, Oct. 14-18. Joint sessions have been scheduled with the American Society of Civil Engineers which will meet concurrently in both cities. T. Y. Lin, professor of Civil Engineering at the University of California, Berkeley, is chairman of the technical committee for the conference. Featured speakers will be J. Roy Carroll, FAIA, president, American Institute of Architects; Dr. F. Leonhardt, consulting engineer, Stuttgart, Germany, and V. V. Mikhailov and B. Skramtaev from the Soviet Academy of Construction and Architecture, Moscow, and R. A. Sandford, chief engineer of the Economics Development Board, Singapore. The Hawaiian conference will include field trips as well as technical sessions.

RETIRED—Deputy California State Architect Earl W. Hampton retired October 4 after 38 years with the state division of architecture. He served more than a year as acting state architect prior to the recent appointment of Carl McElvy to that post.

CHALLENGE OF THE CITY—California's Governor Edmund G. Brown signed three measures during the recent legislative session that are designed to (1) end the haphazard formation of new cities and service districts which create overlapping in government and breed waste and inefficiency; (2) encourage sound urban planning to protect neighborhoods, promote industrial growth and preserve open spaces; (3) propose planning on a regional basis to solve problems of growth that overlap city and county boundaries. Of additional interest to architects are several measures, backed by the California Council, AIA, that were signed into law. Included were the creation of a California Art Commission of 15 members to survey the artistic and cultural activities and needs of the state, the provision of a Department of General Services to which the State Department of Architecture will be transferred and the development of a system of scenic highways with preparation of a master plan that would authorize the state to accept money or gifts from anyone desiring to establish points of scenic interest. The authority to acquire sites for wayside parks and safety rests by the Department of Parks and Recreation, and that given to counties to acquire property for the preservation or development of historical monuments and recreation is of importance to the profession.

BRI NAMES NEW DIRECTOR—Architect Robert P. Darlington succeeded Harold Horowitz as Technical Director of the Building Research Institute, effective August 1. From 1953 to 1961, Mr. Darlington taught in the Department of Architectural Engineering at Washington State University, Pullman, Washington. From 1957 to 1961, he served as head of the Architectural Research Section, Division of Industrial Research, Washington State Institute of Technology, a part of Washington State University devoted to non-profit research in technology. Mr. Darlington is a registered architect in Illinois, Washington and Idaho. He has been most recently Consultant with the Department of Institute Relations of the AIA.



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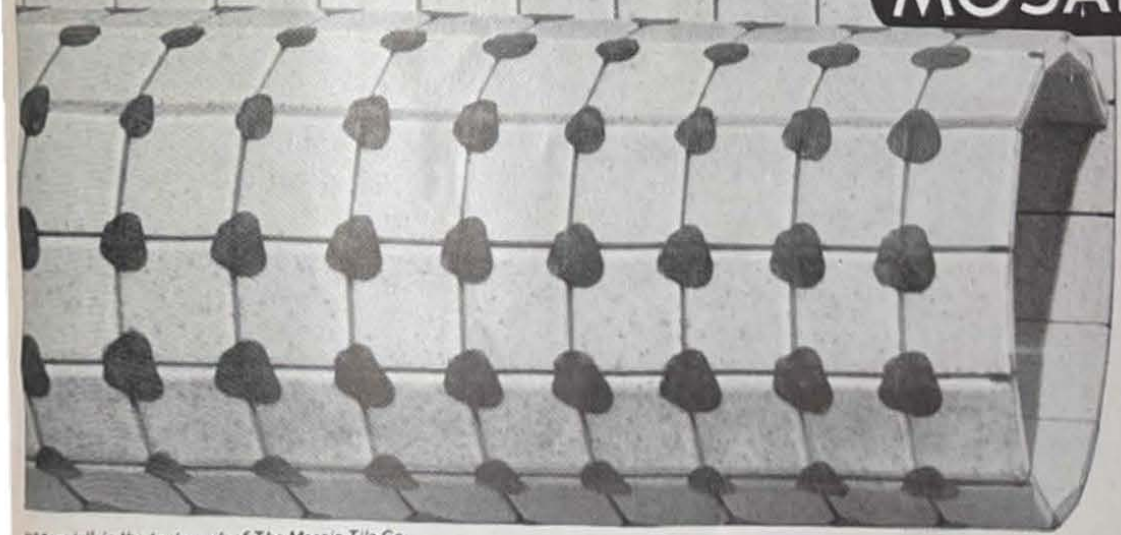

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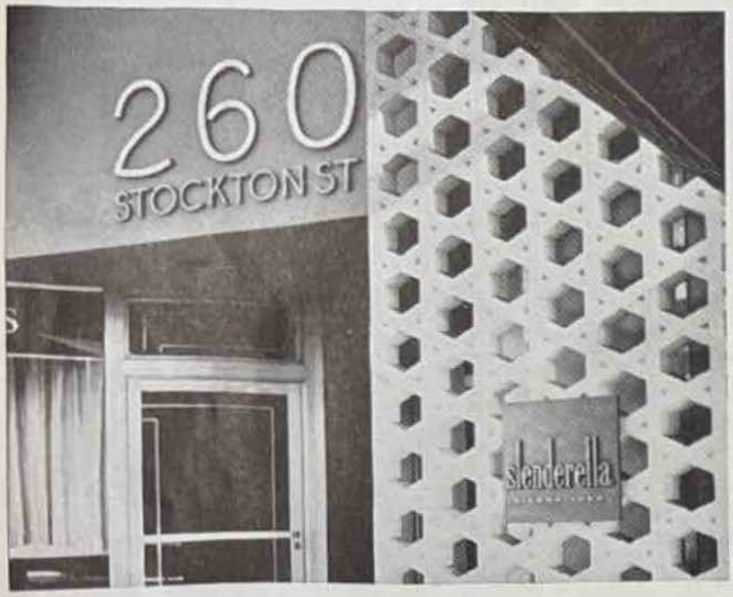

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THE BUILDING MONTH continued—

HOT CONTROVERSY IN HAWAII—On July 25, Circuit Judge Ronald B. Jamieson ruled that all future amendments to alter the Master Plan must be as comprehensive in scope as the recommendations of the City Charter for the General Plan (city and county), reverting land use in this area from apartment to residential. The action was taken in response to a protest motion by angry landholders of a 4-acre residential tract at the foot of Diamond Head. The ruling will affect all future attempts to sidestep the Master Plan by spot-zoning, an action that has brought about several community and citizen protests in other residential districts where their view, and very manner of living has been threatened.

The ruling has set off a local controversy that has been taken up by both speculators and the general citizenry.

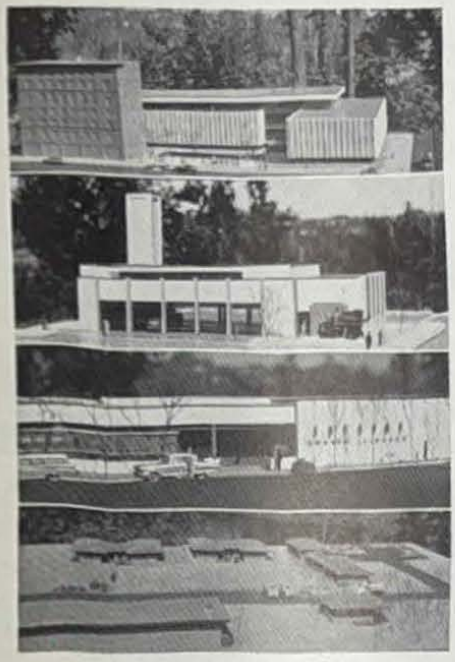
The Hawaii Chapter, AIA, has recommended that the General Plan be completed as rapidly as possible, tentatively suggesting three to six months as ample time. They argue that a "zoning freeze" of long duration might further promote the improper development of the city since new growth will be forced to follow present obsolete zoning plans. They agree that the Master Plan of 1960, as a basis for the General Plan which Honolulu proposes to adopt, contains much valuable data and planning and can be used to accelerate the completion and adoption of a satisfactory plan which will establish goals toward which city development should be directed. They stress that no plan can remain static in a rapidly growing community and that orderly revision within the framework of the long-range objectives of the plan is a continuing responsibility of all informed citizens and government.

In an editorial titled "Two Sides to the Coin", editor George Chaplin in the Honolulu Advertiser says, succinctly, that the argument boils down to rising land values causing economic pressures which, sooner or later, will force the redevelopment of the residential area at the foot of Diamond Head. Economics cannot be ignored, on one side of the coin, no more than the second side, Hawaii's natural beauty, also an economic asset, which has been developed into a major tourist industry. If and when the city adopts a General Plan, and it may be several months before this is resolved, he advocates a long-range, sensible policy for the Diamond Head area where public interest would be weighed equally with that of private interests.

HOTELS AND MOTEL ROOMS BY THE HUNDREDS—The anticipated need for more hotel and motel rooms in Alaska has encouraged a record $6 million investment in this type of construction so far in 1963. The statewide program under way by private investors answers a need expressed by thousands of visitors to the state this year—the need of more tourist accommodations.

CONSULTING THE CALENDAR—American Society of Civil Engineers national convention, Fairmont Hotel, San Francisco, Oct. 7-11 . . . Second session of the ASCE will be at Princess Kaiulani Hotel, Hawaii, Oct. 14-18 . . . **International Symposium on Architecture,** Mexico City, Oct. 8-12 . . . **Second Pacific Rim Architectural Conference,** Hotel Maria Isabel, Mexico City, Oct. 12-18 . . . **National Decoration and Design Show,** New York Coliseum, New York City, Oct. 10-20 . . . **Pacific Coast Electrical Association,** Ninth Hawaiian Conference, Sheraton Meeting House, Princess Kaiulani Hotel, Honolulu, Oct. 24-25.

OAKLAND'S MacARTHUR/BROADWAY CENTER is part of a $10 million complex of office building and enclosed department stores, covering more than six acres. Now under construction, work will be carried on in four phases so that "business as usual" may be continued until new quarters are available for existing firms. Featured will be moving speedramps connecting rooftop parking area with main shopping floor, enclosed air-conditioned malls, magnetized shopping carts that will travel on moving ramps. M/B Tower, 125-ft. sign pylon designed by sculptor Malcolm Leland, will be illuminated at night. Tenants will include Bank of America, restaurants, markets, professional and business firms, specialty shops, clothing stores. Architects: Irving D. Shapiro & Associates, Los Angeles.



CIVIC DEVELOPMENT planned for Salem and Marion County, Oregon, has received preliminary approval from city council. Proposed are a county-city building (top), with three floors, basement, sub-basement, central court with reflecting pool, covered parking for 175 automobiles. Total floor area: 167,362 sq. ft. Library (second photo) is one-story structure with full basement, designed for future addition of second floor. Exterior of building will be faced to harmonize with existing Capitol buildings. Central fire station (third photo), will house seven vehicles, maintenance tower, basement area, sleeping and living space for 20 men per shift. The prison work camp (bottom) would have control building, central dining hall, kitchen and commissary building, recreational facilities, garage, machine shop, two 60-man dormitories. Facility is proposed to be erected on a 50 to 100-acre site within 30 miles of Salem. Total estimated cost: $3.5 million. Architect: James L. Payne, Salem.

PUBLIC LIBRARY in Santa Monica will cost an estimated $1.5 million. Overall plans call for two level structure with basement, fallout shelter, garage and auditorium. An enclosed patio within the building will be used for concerts, refreshments, smoking area. Facade will feature split travertine marble panels between columns, separated by vertical heat resisting glass panels. Architects: Matthew Robert Leizer and Thomas J. Russell, Los Angeles. Structural Engineers: Albert A. Erkel & Associates.

CHAPEL OF THE FIRST WARD, Seattle Stake of the Church of Jesus Christ of the Latter Day Saints, to be located in Magnolia District, will cost $340,000. The 18,000 sq. ft. building will contain worship space, basketball floor, stage for youth programs, kitchen, and facilities for the Ward's Relief Society. Off-street parking will be provided. New structure replaces 50-year-old building. Architect: Russell Sabin of Nelsen, Sabin & Varey, Seattle.

T-SQUARE TALK

FIRM CHANGES

Charles D. Hoyt has become a partner in the Phoenix office of Francis W. Bricker. The firm will be known as Bricker & Hoyt, Architects, with offices at 3201 N. Third St. James V. Jasper has been named an associate in the firm.

John W. Maloney, Seattle architect, announces the formation of a partnership with principals in the firm to be John W. Maloney, Arthur K. Herrington, Tibor Freesz, Ralph O. Lund and John W. Maloney, Jr. All have been associated with the office of John W. Maloney for several years. The firm name has been changed to Maloney, Herrington, Freesz & Lund, Architects, with offices at 754 Central Building.

William T. Mongan is a new associate in the Reno firm of John F. Crider, Architect & Associates. They have recently moved into new offices at 1100 E. Plumb Lane.

Culler, Gale, Martell, Norrie and Davis, Spokane, announce that Donald R. Ericson has become a senior architectural partner and that the firm name has been changed to Culler, Gale, Martell, Ericson—Architects; Norrie and Davis—Engineers.

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Partners in the Bozeman firm, Orr Pickering & Associates, Architects & Engineers, are Orr Pickering, Ed Scowcraft, Orval Graham, Claude Hanson, Bill Ottem. Offices are at 310 Fratt Bldg.

Kenneth E. Richardson, partner in the firm of Stewart, Richardson, Allen, McMath, Architects, 219 S.W. Stark St., Portland, has joined Durham, Anderson & Freed, Seattle architects. The Portland firm will continue under the name of Stewart, Allen, McMath, Architects, at the same address.

As of September 1, 1963, the partnership of Mockford & Rudd, Oregon City, was dissolved. Stuart B. Mockford will continue in practice at the present address, 723 Washington St., Oregon City. Joseph H. Rudd has opened new offices at 1801 N.E. Couch St., Portland.

With the announcement that Frederic Porter, Jr. and Paul Graves have become full partners in the firm, Frederic Porter, FAIA, also announces the change in name to Porter, Porter & Graves Architects with offices at the same address, 1009 East Lincolnway, Cheyenne.

The firm of Alan Golin Gass, Robert Brewster Gay, Associated Architects, has changed the name to Gass-Gay, Associated Architects with the opening of a new office in Rapid City, South Dakota. Robert Brewster Gay will be in charge of the new location with Alan Golin Gass remaining in charge of the Denver offices located in the Denver Hilton at 1515 Cleveland Place.

Six members have been added to the staff of Rex Whitaker Allen & Associates, Architects, since the expansion at 259 Geary St., San Francisco, in June. Recently named are architect Nicolay Terziev; designer Johan van Lengen; architect Angus Ramsay; designer-draftswoman Mily Tomaskovic; design-planner Richard Ainslie and architect Robert E. Smith.

Sterling Leach, Ron Cleveland and James Van Schaack announce the formation of an organization to be known as Leach, Cleveland, Van Schaack, augmenting the Leach, Cleveland and Associates firm. The new office will specialize in the field of store planning, merchandising and commercial interior design. Offices are at 8900 Melrose, Los Angeles.

Otto H. Kilian has been made vice president and assistant general manager of Charles Luckman Associates, Los Angeles.

GENE VERGE, of the Los Angeles architectural firm Verge & Klaworthy, was one of the speakers at the recent regional meeting of the Aluminum Manufacturers Association in Los Angeles.

NEW OFFICES

A new firm, Pacific Architects Collaborative, has been formed with offices at 25 S. Euclid Avenue, Pasadena. Eight associates are concerned in the new organization with Keith P. Marston serving as president.

Edward H. Duerr has opened offices for the practice of architecture at the Milias Hotel, Gilroy, California. He was formerly an associate with the firm of Wallace Holm, Architect and Associates, Monterey.

Page-Werner & Associates, Great Falls, have opened a second office at 116 First National Bank Bldg., Glasgow, Montana, under the direction of Klynn L. Cole, an associate of the firm.

John Russell Rummell has opened an office for the practice of architecture at 2500 Kalakaua Ave., No. 201, Honolulu.

Donald C. Edson has opened offices at 228 Bachman Avenue, Los Gatos.

Fred H. Field has opened new offices for the practice of architecture at 3030 Bridgeway, Sausalito.

HONORS and AWARDS

Albuquerque architect W. J. Van der Meer has been presented with the Albuquerque Lumber Merchandisers Association wood award for the design and construction of his own residence. His design is primarily of wood construction, utilizing native and western species of lumber.

Ferris, Erskine & Calef, Reno architects, have received an honor award in the 17th Food Service Award Program sponsored by Institutions Magazine, for the cafeteria and kitchen design at the Earl Wooster High School, Reno.

Frank L. Hope & Associates, San Diego, have been cited for outstanding air conditioning design in the 20-level Home Tower. The citation is made annually by the Bureau of Home Appliances, Air Conditioning Division. George W. Dunn is mechanical engineer for the firm.

The Computer Sciences Corporation building at El Segundo has won

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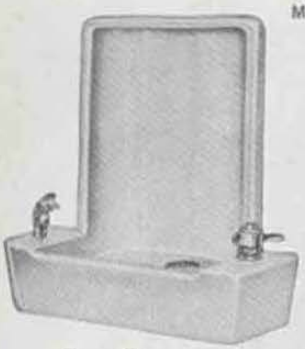
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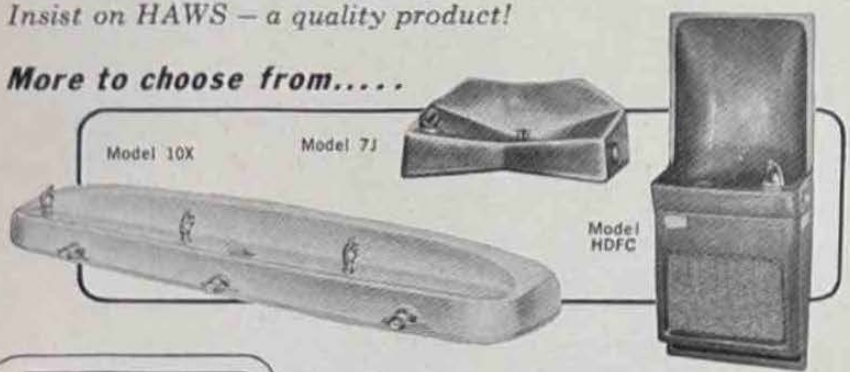

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A model home, the Country Manor, located on Lake Sammamish, has won the Congress on Better Living Certificate of McCall's Magazine for 1963-64 for its designer, John Anderson, Seattle architect, and builders Bell & Valdez.

ALCATRAZ APOLOGY

Inadvertently, the suggestion of architect Peter A. Sabin, Palo Alto, for the future use of Alcatraz Island, was omitted from the September news story. Mr. Sabin proposes intersecting navigational arches to support a beacon 600-ft. above sea level with the horizontal axes to be major compass directions providing a continual visual navigational range mark.

APPOINTMENTS

Graham Erskine, partner in the Reno firm of Ferris, Erskine & Calef, has been appointed to the Board of Commissioners, Urban Renewal Agency, by the City of Reno.

Harvey Vernier, Moses Lake, architect has been appointed to a four-year term on the Washington State Board of Registration of Architects by Gov. Albert Rosellini, succeeding Richard E. Eddy of Spokane.

Lawrence A. Garcia, Albuquerque, has been named chairman of the County Planning Board, and secretary of the New Mexico Board of Examiners for Architects.

Two new members of the Ventura City Planning Commission are architects Glenn H. Marchbanks, Jr., and Kenneth C. Kruger.

Martin Ray Young, Jr., Mesa, Arizona, has been named Secretary of the State Board of Technical Registration.

Fred Guirey, Phoenix, partner in the Guirey, Srnka and Arnold firm, has been named official architect for Pioneer Arizona, the $15 million "living history" American Heritage Center in that city.

Roy E. Tanaka has been named vice president of Irving D. Shapiro & Associates, Beverly Hills architectural and land planning firm. He became an affiliate of the organization in 1961.

Belluschi, FAIA, joins California team in designing Cathedral

Pietro Belluschi, FAIA, dean of the school of architecture at Massachusetts Institute of Technology, will join the team of architects now designing San Francisco's new St. Mary's Cathedral: Angus McSweeney, Paul A. Ryan and John Michael Lee. The design will be reviewed by a panel to be named by San Francisco's Redevelopment Agency who retained the right to approve the plans when the building site was sold. Architect Belluschi has designed only one other building in the Bay area, the Trinity Lutheran Church at Walnut Creek, in collaboration with Skidmore, Owings & Merrill.

MISCELLANEOUS

- Richard H. Stradling, Bellingham architect, will increase office space in modernized new quarters in the Herald Building.
- David Neville Lewis will become Andrew Mellon Professor of Architecture and Urban Design at Carnegie Tech.
- Vladimir Ossipoff is making a six-week tour of Europe with the Hawaii Executives Invitational Tour

ADDRESS CHANGES

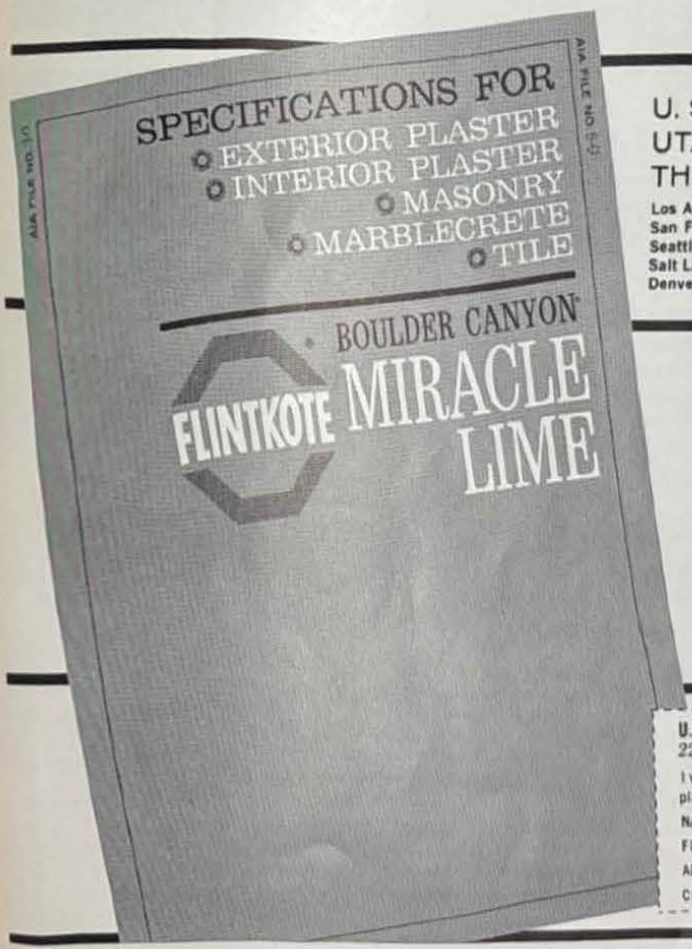
- John S. Rowley to 440 S. 225 East, Cedar City, Utah.
- George Kirkpatrick to new and larger quarters at 844 Colorado Blvd., Los Angeles.
- Nat J. Adams & Associates will move into a new building at 100 State St., Boise, in October.
- Jan Kiaer to 1005 Lloyd Bldg., Seattle.
- Ralph G. Allen to 1550 Bayside Dr., Corona del Mar.
- Wilson & Thomas Associates have moved from San Marino to new offices at 1831 West Lomita Blvd., Lomita, Calif.
- Hogan & Chapman to 250 Ward Avenue, Honolulu.
- Roger Ranuio to 568 Clay St., San Francisco.
- California Council, AIA, to 1736 Stockton St., Studio 2, San Francisco. 11.
- Nelsen, Sabin & Varey, Architects, to 4733 Brooklyn Ave. N.E., Seattle.
- Luigi Dusmet-De Smours to 4440 Nueces Dr., Santa Barbara.

DEATHS

- Paul J. Duncan, senior member of the firm of Duncan & Conroy, Sherman Oaks, died July 23 at the age of 75. He began his professional career in New York in 1907 and established his first office in California in 1926.
- David S. Quintin, 79, died at San Gabriel, July 29. Principal of his own firm, Scott Quintin, Architect, he retired from active practice a year ago. He was a past president of the Pasadena Chapter AIA.
- Harry E. Hudson, 82, a partner in the Seattle architectural firm of Gibbs & Hudson for 30 years, died of a heart attack August 27 in that city. A past president of the County Park Board, Mr. Hudson was semi-retired.

New Washington AIA Chapter Formed

Architects in the Vancouver, Washington area have formed a local chapter of the AIA and were formally chartered at the regional conference in Tacoma in September. Previously, architects in this part of the state had been assigned to the Oregon Chapter in Portland. Elected officers are: Day Hilborn, president; Keith Bradbury, vice president; Donald Lindgren, treasurer; Paula Trader, secretary.



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Community concern, psychological aid keynote Western Mountain conference

STRESSING the concern the architect must feel for the total community, South Carolina architect Arthur Gould Odell, Jr., president-elect of the American Institute of Architects, speaking at the 12th annual Western Mountain Regional AIA Conference in Jackson Hole, Wyoming, said "If we move now . . . we can recreate the nation".

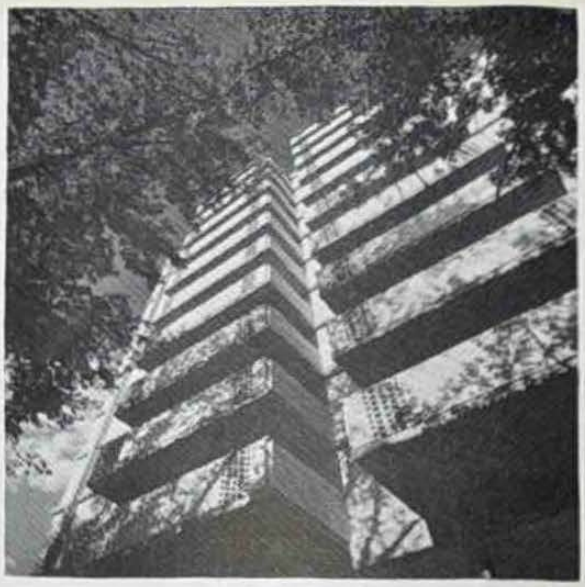
He lamented the tendency of the architect to dilute his image with such appendages as "architect and engineer" or "architect-planner".

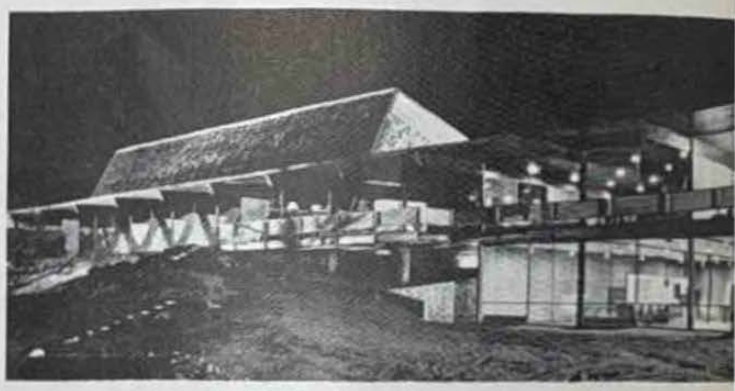
His plea for community concern was keynoted by previous discussions by Dr. Sterling McMurrin, professor of philosophy at the University of Utah, who warned that society is in grave danger of becoming a technocrat society, ruled by the machine. "The architect", he said, "holds the key to relating art to society, art to industry and art to religion. In the architect you have the coming together of all facets of experience".

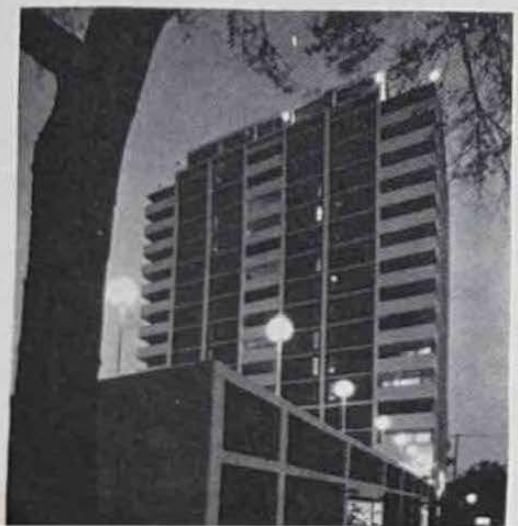
Dr. Calvin W. Taylor, professor of psychology at the University of Utah, noted that the concept of having man adjust to his environment has been oversold. "What is needed", he said, "is the adjustment of environment to man's problems for future consideration by architectural psychology teams, including hospital design."

An eminent group of panelists discussed the responsibility for design during the three day session. Among the other participants were Morris Ketchum, Jr. FAIA, New York City, chairman of the architectural design commission of the AIA; Richard W. Snibbe, New York chairman of the commission's committee on aesthetics; James Hunter, FAIA, Boulder, Colorado; George F. Pierce, FAIA, Houston; Paul Hayden Kirk, FAIA, Seattle; Mrs. Valley M. Knudsen, Glendale; Nathan Cabot Hale, New York City sculptor; Roger Bailey, FAIA, president Utah Chapter, AIA; DeVon Carlson, dean of the department of architechure, University of Colorado; James W. Elmore, director of the school of architecture, Arizona State University; Sidney W. Little, FAIA, dean of University of Arizona school of architecture; John V. Hiemrich, chairman of the department of architecture, University of New Mexico.

Three Colorado architects took first honor awards in a design competition on the final day. Winning designs are shown on this page.





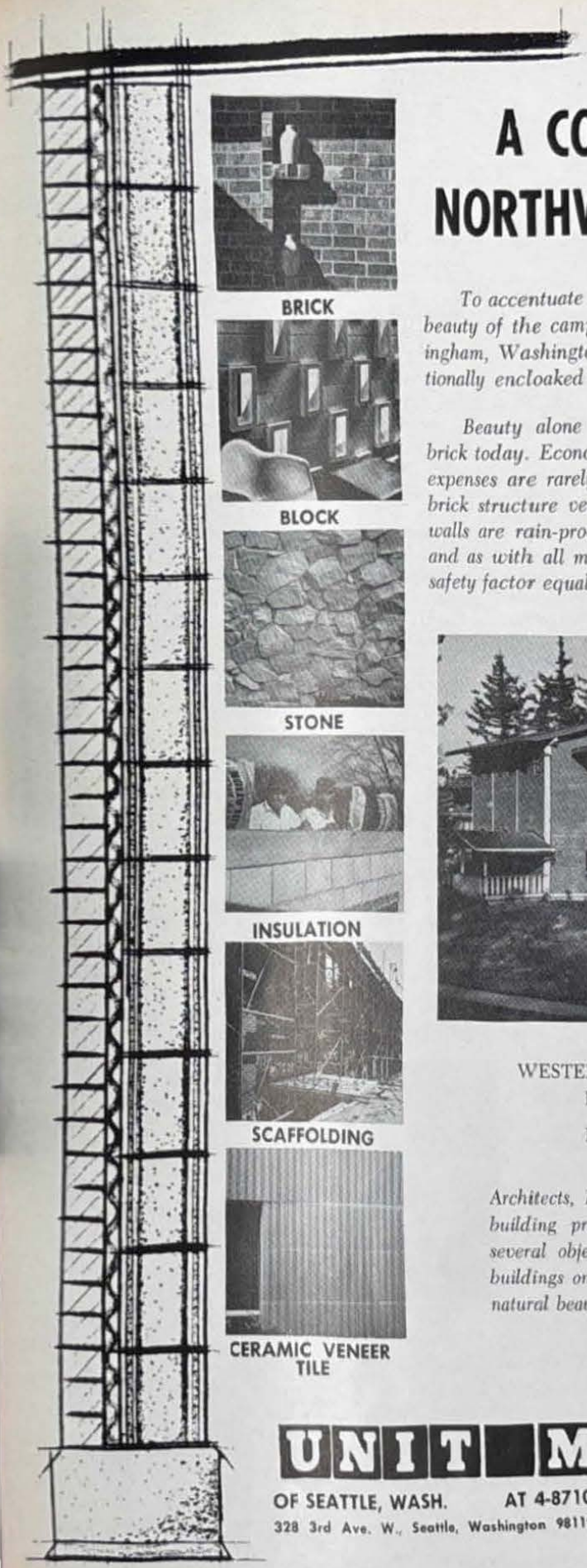


PENN VII apartments (top), Denver, designed by Donald R. Roark, has 40 one-bedroom apartments and 20 two-bedroom units in addition to a two-story penthouse. The square building is of brick and exposed concrete with all core facilities surrounded by an interior "U" shaped corridor.

JAMES H. JOHNSON & ASSOCIATES designed the Moore Mortuary, Denver, of laminated timber frames over the main element with steel construction elsewhere. Interior walls are painted plaster, brick and dark oak. Lighting fixtures are of oak and copper in the main chapel with recessed lighting in other areas.

BROADMOOR COMMUNITY CHURCH, Colorado Springs, won for architects Lusk & Wallace an honor award at the Church Architectural Conference in May, and was an Architecture/West cover feature July 1963.

DONALD R. ROARK'S Hampshire House, Denver, received a merit award at the regional conference.



BRICK

BLOCK

STONE

INSULATION

SCAFFOLDING

CERAMIC VENEER TILE

A COMPLIMENT TO A NORTHWEST ENVIRONMENT

To accentuate the educational tradition and ageless, woodland beauty of the campus at Western Washington State College, Bellingham, Washington, the Ridgeway Dormitories have been functionally encloaked in brick masonry.

Beauty alone is not responsible for the wide acceptance of brick today. Economy is another important dividend. Maintenance expenses are rarely necessary, thus keeping the ultimate cost of a brick structure very low. In addition, properly constructed brick walls are rain-proof, damp-proof, decay and corrosion proof . . . and as with all masonry products, brick is fire-proof, providing a safety factor equalled by few other products.

RIDGEWAY DORMITORIES,
WESTERN WASHINGTON STATE COLLEGE
BELLINGHAM, WASHINGTON

BASSETTI & MORSE, Architects

Architects, Bassetti and Morse, used brick as the basic building product for the Ridgeway Dormitories with several objectives: 1. Brick harmonizes with the other buildings on the campus. 2. It adds rich texture. 3. The natural beauty of brick improves over the years.

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A report on the Twelfth Annual
Northwest Regional AIA Conference

Architecture on the Move . . .

DURHAM

ANSHEN

THE TWELFTH ANNUAL Regional Conference for the Northwest District of the American Institute of Architects was a lively affair in keeping with conference traditions in this part of the country. Architects met from September 8-12 at the Winthrop Hotel in Tacoma under the sponsorship of the Southwest Washington Chapter, with Donald F. Burr, general chairman.

No catastrophe illuminated this conference as did last year's hurricane at Ocean Lake, Oregon. There had been catastrophes along the way, however; the convention had been scheduled for the Hyatt House, Seattle-Tacoma Airport, when a late spring fire destroyed its convention and restaurant facilities. The Winthrop Hotel had its own handicap: it had never been introduced to the twentieth century phenomenon of a ventilating system.

But Architecture can be of the spirit and rise above such things!

And spiritually, the noblest experiment was the pilot program of Paul Kirk's design seminar proposal. The Institute's national committee on aesthetics has a two-part program:

- —the outward-directed support of local anti-ugliness campaigns to stimulate public awareness in our visual environment.
- —an inner-directed emphasis on increasing the design capabilities of the AIA's own membership.

Kirk, currently serving as one of AIA's three aesthetes, has long urged roving juries of perhaps three members who would be available in various cities in a region—like circuit judges—for discussions on particular projects submitted before them. Public projects would be of special interest, and submissions would be made on a purely voluntary basis. Ideally, projects would be submitted when they were in the design stage and thus susceptible to modifications if convincingly recommended.

For this kick-off project, there were two submissions before a visiting jury of Quincy Jones, Los Angeles; Tom Creighton and Bob Anshen of San Francisco. The brave targets were Lewis Crutcher, Portland, who discussed his project for St. Helen's Hall, a private school in that area, and Bruce Walker, Spokane, who reviewed his firm's schematic design for a new Faculty Office Building for the College of Liberal Arts & Sciences on the University of Washington campus. Both projects were convincingly presented so that both fared well with the jury.

A more typical design seminar should involve a much smaller group so that a true interchange of ideas can result. Only then can Kirk's hope of this as a means of continuing education for the architectural practitioner be realized. The Institute's Board, at its Salt Lake City meeting following this regional conference, approved the holding of three pilot seminars in the Northwest during 1964. (Money for paying future jurors will not be budgeted till January, however!)

Other portions of the program continued on an equally high plane. Charles R. Colbert, formerly dean of Columbia's School of Architecture and now returned to his homeland (New Orleans) gave the keynote address on Monday morning. (Abridged summary of his talk elsewhere in this issue.) Not afraid to call his shots, Colbert became probably the standout personality of the program.

Bob Price and his committee helped make this conference program an outstanding success by one simple gesture: the guest speakers were asked to remain for the entire period of the conference. This fact contributed greatly to spirited discussions. If panel discussions are generally conceded to be part and parcel of the committee system way of life, Wednesday afternoon's panel discussion was the exception that proved the rule. Robert H. Dietz moderated a distinguished panel:

DIETZ

Charles R. Colbert, FAIA
Lawrence Halprin, landscape architect
Dr. Donald W. MacKinnon, psychologist
Robert S. Anshen, FAIA
Thomas Creighton, FAIA
Elisabeth Kendall Thompson, AIA
Paul Hayden Kirk, FAIA

A lively cross-fire of comment crackled back and forth the long table, with participants impatiently waiting for a turn at the microphone. Talk plunged off into architectural journalism and education, then ranged far and wide into other subjects.

Bob Durham, Institute director, was a true legislator home to sense the pulse of his constituents. Business meetings revealed strong sentiment *against* the Institute's acquiring additional property adjacent to the Octagon House. This could be interpreted as a last rebellious slap at the Institute's building program for the new headquarters building rather than consideration for the proper setting for the national historic monument that is the Octagon House. It was a surprise to Northwest members to discover that anything other than a completely open competition might be considered for the selection of the architect for the new headquarters building. Members voted almost unanimously for an open competition. Asking for guidance in nominating jury members, Director Durham got too much advice from the membership. Opinions ranged from a jury composed entirely of AIA's Gold Medal winners to no Gold Medal winners!

Tacoma is *not* the resort-retreat conference site that the Northwest is noted for. Guests arriving at the Winthrop Hotel in Downtown Tacoma saw a downtown core area badly in need of rejuvenation traffic-wise, economically, and architecturally. Finally threatened with a large suburban shopping center under construction, downtown interests have grudgingly given approval to an urban renewal program. This has been a heated subject at city council meetings with the usual recriminations from the "far right" element. We hope that the conference subject "Architecture on the Move" can really be demonstrated in the next few years in downtown Tacoma.

—A.O.B.

Keynote address at 12th Annual Northwest Regional AIA Conference, Tacoma

"From Brittle Boxes to Concrete Choreography"

CHARLES R. COLBERT, FAIA
Architect-Planner, New Orleans

THERE ARE FIVE AREAS on which I would like to speak. The first one has to do with architecture and design, the second one the real backdrop of our period as we stand socially poised. The third is the dilemma of judgment with which we are faced in architecture today in everything we do and in the very houses we live in, the neighborhoods we associate with. I would like to make two proposals to which I have given a substantial amount of thought in the last number of years, one of them dealing with personal standards of judgment and the other one, not extended practice, but extended competence which would include civic planning–urban planning. And then I would like to terminate with an admonition. Architecture to me is ideas which improve life through environment and it follows the laws of logic. The first step lies in recognizing a problem, the last in creatively solving it in terms of the fullest understanding of current life. Architecture is not esoteric–for a chosen few–but it is the ever new recognition of real human needs and their solution through ideas.

Now design is architecture. Design is not merely to plan, form in the mind, to strive to arrange the parts or to fuse to complete an artistic object or a final artistic invention. This definition isn't broad enough because design is ideas, ideas that change human lives. A great idea so unified, so clear, that it may justify and usually justifies, incongruities. So you see to me architecture and design are exactly the same thing–worthwhile ideas. I find it very hard to define a worthwhile idea in architecture and life today for we are living in a period when man's ideas and ideals are being tested as never before. Established social systems throughout the world are crumbling as new ones rise in unprecedented variety. Where can we look for order, value and expression of man's everlasting aspirations?

"Architecture is ideas which improve life through environment"

I have often dreamed that we should find these in architecture and particularly in the central art of design. I have wondered where to look, but everywhere I look–North, South, East and West–I find unbelievable sacrifices of quality, of standards and even honesty. Our minds have been opened to the infinity of the universe, but we have lost the dignity of the finite, man-made objects which surround us in our daily lives–the glasses on your nose, the watches on your arms, the chairs you sit in. In this chaos both society and the individual are losers. Society loses because waste and confusion are the direct results of shoddy design, careless promotion, and misleading production. The individual loses because he is alienated from the products of his own labor. We all begin to move in a wasteland. It is at this point that the real social responsibility of architecture must be re-weighed. An understanding of this obligation on the part of architects should be the aim of considerations throughout the world.

Our physical deterioration, unfortunately, is by no means confined to areas of social decay. Slum clearance is not, in its current form, a real answer. Even those who consider it outmoded to relate artistic values to morality, must admit the existence of a very real moral blight throughout this country. This is no new concept of course. The identification of the esthetic with the moral manifests itself throughout all Socratic and Platonic philosophy and was part of the scholastic system in the Middle Ages on which we all build. Modern professional ethics could not exist without the conviction that standards of work perfection are part of the standards of morality. The deep social understanding with which the architect must approach his task should begin with the objects or artifacts of daily use, for which the architect bears at least a partial and direct responsibility. We must honestly accept the fact that the end product of our vision and convictions is of a tangible and pratical nature. We are dealing with three-dimensional, utilitarian objects and our prime means of communication is through the material world.

The objects of our creation are means of direct communication analagous to poetry, music, mathematics, with the daily test of immediate usefulness added to their symbolism, but symbols they are – the most obvious ones known to man. So I would say in working for this non-illusory understanding of objects that we are looking for a contradiction. We are looking for a form of moral materialism or material moralism. But the morality of what we do is the essence of what we do through the idea of that thing.

Architecture today is caught up in its own technology and verbiage and seems to be suffering from one of its periodic time lags. The recent and noticeable degeneration in the modern movement of architecture is inexorably related to the deterioration in design of mass-produced objects. The facile, semi-automatic use of material–of concrete for example–allows for no firm scale of importance. No distinction is made between spiritual and utilitarian elements in architecture, only interminable dissimiliarity which bring on its own crass form of similarity. This

questionable facility lavishes the same assembly-line glibness on a church, a community center, and a one story suburban home. The architect, in trying to break this vicious cycle of quantity by conscious qualitative design, can play a tremendously decisive role. He can and he must concentrate his energy on the structures and objects of our time.

Now I have tried to define the architect-designer's obligation to always produce the best objects under the given circumstances. But the best and the given circumstances are, of course, variable and at the control of the architect. The best is a continuously emerging idea, and we must at least try, amidst the myriad of uncertainties of our time, to develop a systematic method of judging our own products and those of others, for we are a nation—a world, if you like—in transition.

Dispersed rural populations historically dependent upon natural phenomena and direct contact with nature, are becoming concentrated urban populations dependent on the design of man rather than upon the natural design of nature. Increasing populations and emerging nations continue to add urgency to the necessity of finding revised techniques of living and working in harmony. Architecture is an essential social function. It affects the future of man and it produces change. It does not merely reflect the condition of man. In this age of international crisis architects must engage the important realities of daily life rather than the superficialities of a magazine interpretation of what constitutes architecture.

In large measure, our architectural traditions have been built upon European precedents. Today, Europe and the world look to America for new departures and contributive direction.

In the late fifties the functional tradition of logical and systematic design determinants began to lose its hold on leaders of architectural design. Tiring of reason, they turned inward to personalized explorations, to the bizarre, theatrical, and the externally unusual. If we look at the journals of the period, we find little, if any, creative energy being brought to bear on the more pressing problem of collective urban building or, indeed, on any problem with large social implication. Now this doesn't apply universally to magazines, and certainly not to individuals, but only as policies of magazines.

"Effect for yourself a set of value judgments"

Now why did the profession take this direction? Why the emphasis on the making of shapes which sometimes erupted in such fantastic form as to produce a new kind of Functional Baroque? Perhaps it was to be expected that the sculptural effects denied architects for so long under the strict functionalism had be reasserted. It is true also that improvements in building technology made almost anything possible and we had to play for a while. Slabs purposely hung from aimless wires, cantilevered masonry units, pleated roofs, and such. Nevertheless, it was not technological possibilities which explained the excessive use of forms for their own sake. I believe that architects may have recoiled from a society fraught with insoluble problems into a sort of nihilistic esthetic. Such labels as "New Brutalism" and "Neo-Sensualism" have been attached to buildings which seem to be expressing nothing more constructive than a subconscious fear of annihilation and a desire to return to the womb with their massive concrete walls and internal mazes.

It has been said that the new architecture shouldn't be brittle—it should be kickable. Well, I think more than kickable—maybe it's the kind of architecture the architects are trying to produce, the kind of architecture into which you can back a Cadillac without fear of losing the building. One aspect of this precious and rather destructive atmosphere is a non-economic use of materials. An aspect which becomes of major importance in view of the architect's larger social responsibilities. And it is these social responsibilities that lie at the nub of any worthwhile idea—for architecture must affect life rather than merely reflect society.

It is this thought that leads me to believe that the longer perspective of history will judge design and architecture by the lives it changes.

But it is ideas again that change lives, that affect architecture, that are important to architecture and that merit publication rather than sculptural effects. For to me the seeds of change are the essence of life, and I like Thornton Wilder's statement from Caeser's Journal. It says: "For it is by taking a leap into the unknown that we know we are free." Free, not as aesthetes, dilettantes, faddists, stylists and in effect, "form makers", but free as moulders of a new ecology for man.

And was there ever a period of greater opportunity? We have moved in our lifetime. We have come from a period of social evolution to a period of social revolution where special interests are involved; where a group of minorities in many instances become the majority. We have moved from the Protestant ethics of hard work, morality and thrift to a general acceptance of agnosticism and even atheism and a sense that society owes me a living. We have moved from a pride of workmanship and authorship to a period where it is rare, and today it is the collaborative, and the organization man and the TV scanning screen in the architectural office that we show our friends. We come to the normative decision of design.

We have come from over-fixed standards of Classicism and the Beaux Arts to almost a classless society, a laissez-faire, a casting off of all precedent and experience to the neo-sensualism and new brutalism, stage set design of architecture, sculptural fetishes, pop art, Dick Tracy profiles at the Guggenheim. We have come from individual incentives and goals to group dynamics; from individual will to collective goals; from reading to viewing and briefing; from individual isolation in shacks to collective squalor in slums; from racial apathy to racial antipathy; from the age of the self made man to the age of the group made man. From flagrant dishonesty and the robber barons to subtle associations and realty sindication. From New York's Plaza to Miami's Americana. From the Golden Rule to instruction in withholding tax procedures. From covered wagons and Donner Pass to accelerated depreciation, grain in liberty ships, the Common Market and Miami Beach.

Now how do we judge these changes? Each of you may judge what I say in each of these things differently. *So I come to a recommendation, my first of two proposals. It is to effect for yourself a set of value judgments that are general.* In searching for personal standards there are always two dangers, both of which I believe come from a pre-occupation with verbal expression and verbal thought. One is the fatal act of oversimplification. The other, which is more insidious, is to be trapped in a web of literary abstractions which give an illusion of body without reaching the reality of the thing itself. Yet accepting all the pitfalls, there are but two choices for the architect. He must either follow established rules such as laid down by the magazines or develop personal standards and inner disciplines for his own guidance. By individually recasting the process of creative judgment we can derive a workable method of qualitative evaluation and from this develop our own personalized system of design approach.

In presenting one personalized system of evaluation, it is necessary to risk oversimplification. Essentially it is represented by a trilogy of words representing three dis-

ject, if overlapping, areas of concern. I have chosen the words *"order"* and *"idea"* and *"response"*. Now my interpretation of this trinity—order, idea, response—is that it may be used either as a method of evaluation and judgment or, more importantly, as a discipline for design itself. I see the process of creating an object as always beginning with "idea" and proceeding through "order" and working towards emotional "response." In the analysis of the work of others I begin first with "order", the sum of all conditions surrounding the designer and society and lodged within them and progress to the emergence of the "idea" that changes those conditions and end with the climatic emotional "response". Perhaps a listing of related words and word groupings will further define the concept.

Under "order" we can call it "form" if you will. We can call "idea" "concept". We can call "response" "feeling". We can call "order" "research". We can call "idea" "creation". We can call "response" "expression". We can call "order" "composure"—within the community or within self. We can call "idea" "invention"—something that leads society onward, and we can call "response" "thrill", the unknown quantity within each of us. We can call "order" "systematic order", contributive idea or lasting effect. We can call "order" "essential conformity". We can call it germinal concept, or we can call "response" "climatic response."

Under terminology of people, under "order" you would have the engineer and the scientist, the researcher, the determinator of the status quo, the statistician, the city planner, in a sense. Under "idea" you would have the inventor, the innovator, the changer—and that is where the architect belongs. And under "response"—and God gives us this, we would have the artist and the poet, and those who deal with human emotions ultimately, always.

In evaluating a work of structure made by man, I find it necessary to begin with this column of "order" and ask questions of the following type. And remember these are ever revolving, this trinity. Is a moral purpose represented in an ordered fashion? As you walk out look at those buildings outside. Is visual order discernible through scale, proportion, harmony or contrast—all those classy units that we learned in school?

Is there a systematic relationship between the parts and the whole? Is the whole greater than the parts? Are the innate laws of material, structure and function observed?

In another sequence under "order" we can ask, is economy of means and purpose extended to the fullest? Is a social purpose served to advantage? Is a discipline and composure of structure and mechanical forces present? Is a psychological and a physiological purpose served by these creations of man? Is there a composure within the community and the immediate surround? Is the function of this thing evident and clear? Is the order of public law granted and reconciled?

We could go on with this forever, but I hope this line of inquiry indicates the essential value of order in this appraisal on which good design must first stand. In moving on to the area of "idea" which I consider the natural consequence of "order" we may question ourselves:

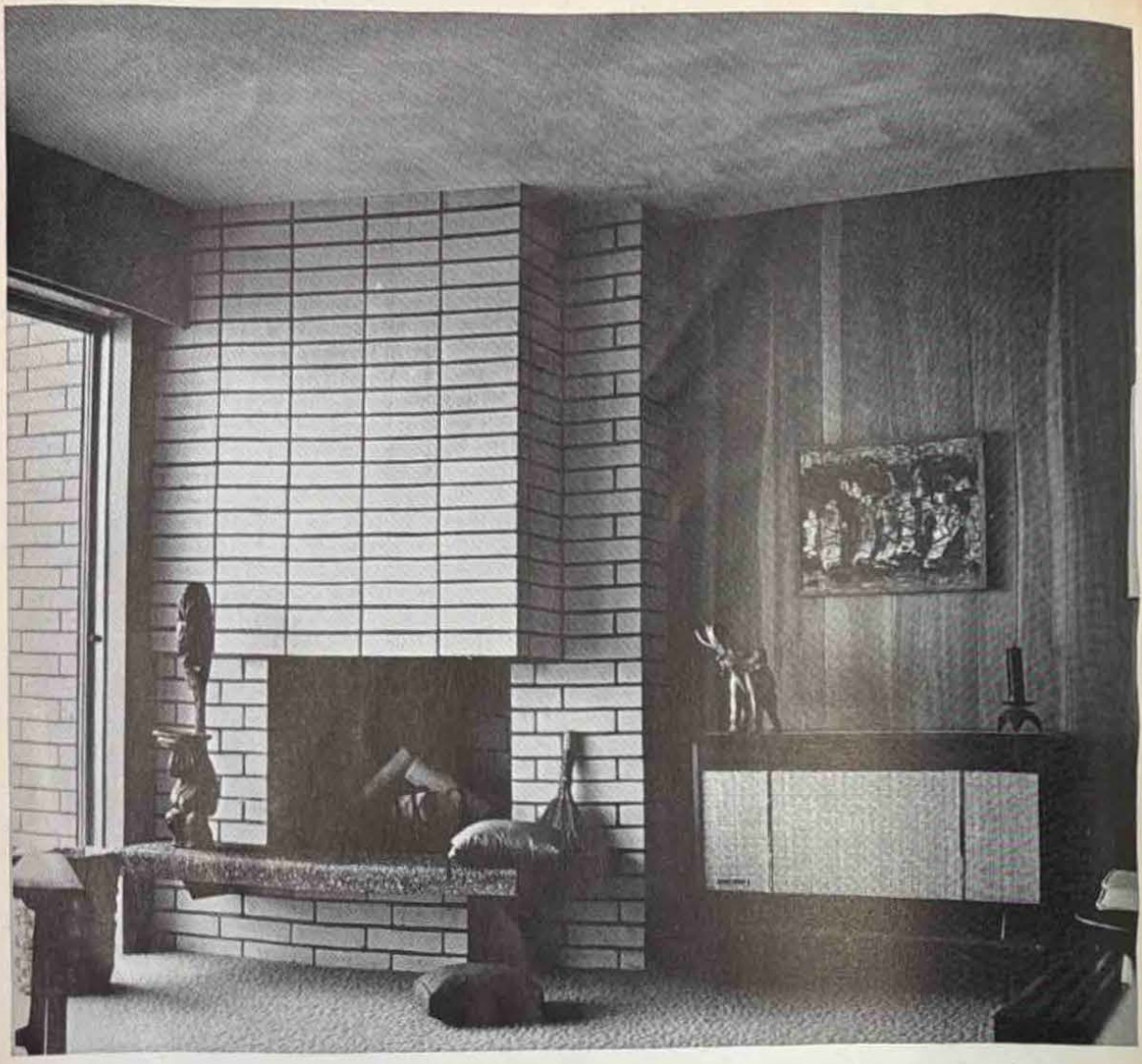
Is there a new concept which sets this object beyond its peers and predecessors, or is it another "almost as good as"? Is this a concept which leads to a clear and particular realization out of the general order? Is the Big Idea sufficient? Does this ideal fulfill the specific needs, physical as well as spiritual, of the object's user? Is it human directed? Does the specific character of the concept justify all incongruities or discords of parts and perhaps even override the general order which we have accepted previously? In fact, does this newness of the concept and the resulting object improve and develop the old order, or does it merely change it? Does this invention allow new vistas for further development or is it only another terminal point? Does it allow the designer a sense of self actualization, which of course is at the heart—the very heart—of all creation? Is the final object strong enough and clear enough to lead from abstract order directly to an emotional response?

Now in the last of this trinity and as a terminal act in our examination we must weigh the total emotion evoked by an object or a structure—what it does to us. Here I cannot suggest a set of specific questions. They would in the end remain as unanswerable as why music pleases the ear. But these reactions are tangibly, materially, sensorily, perceivable and are directly related to man's ceaseless strivings for aims beyond himself.

Now again from Caesar's Journal I would like to quote: "We are not in relationship to anything until we have enwrapped it in a meaning—nor do we know for certainty what that meaning is until we have costingly labored to impress it upon the object." Now that is a cross check so that you may know whether you have done your best—whether you have costingly labored on your last creation. So that constitutes my first proposal. Not to accept my definition of judgment but to develop one for yourself that you can articulate. Defend why you like something, not depend upon merit snobbery to say this is better because you read it, saw it, or learned it elsewhere, but because you can always explain it.

My second proposal concerns planning, and of equal importance to a personal standard of architectural value, judgment is a willingness to reasonably subordinate personal will for the general good. This essential requirement of our times, I suppose largely caused by human congestion, has brought a new discipline within the architect's sphere of essential knowledge.

(please turn to page 30)



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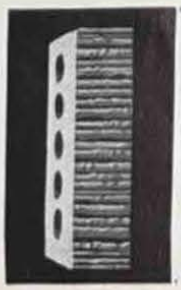

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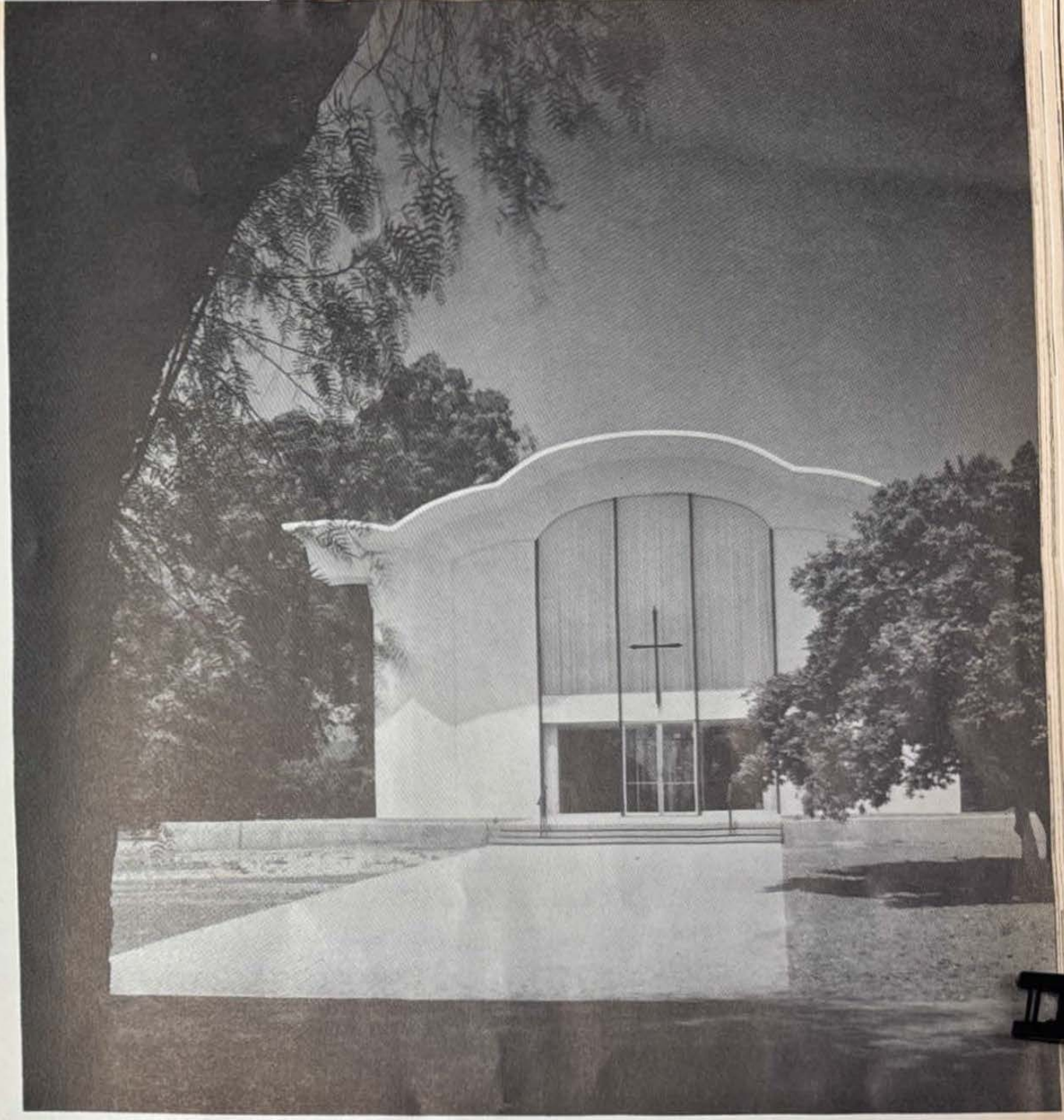


Maris-Ezra Stoller Photos

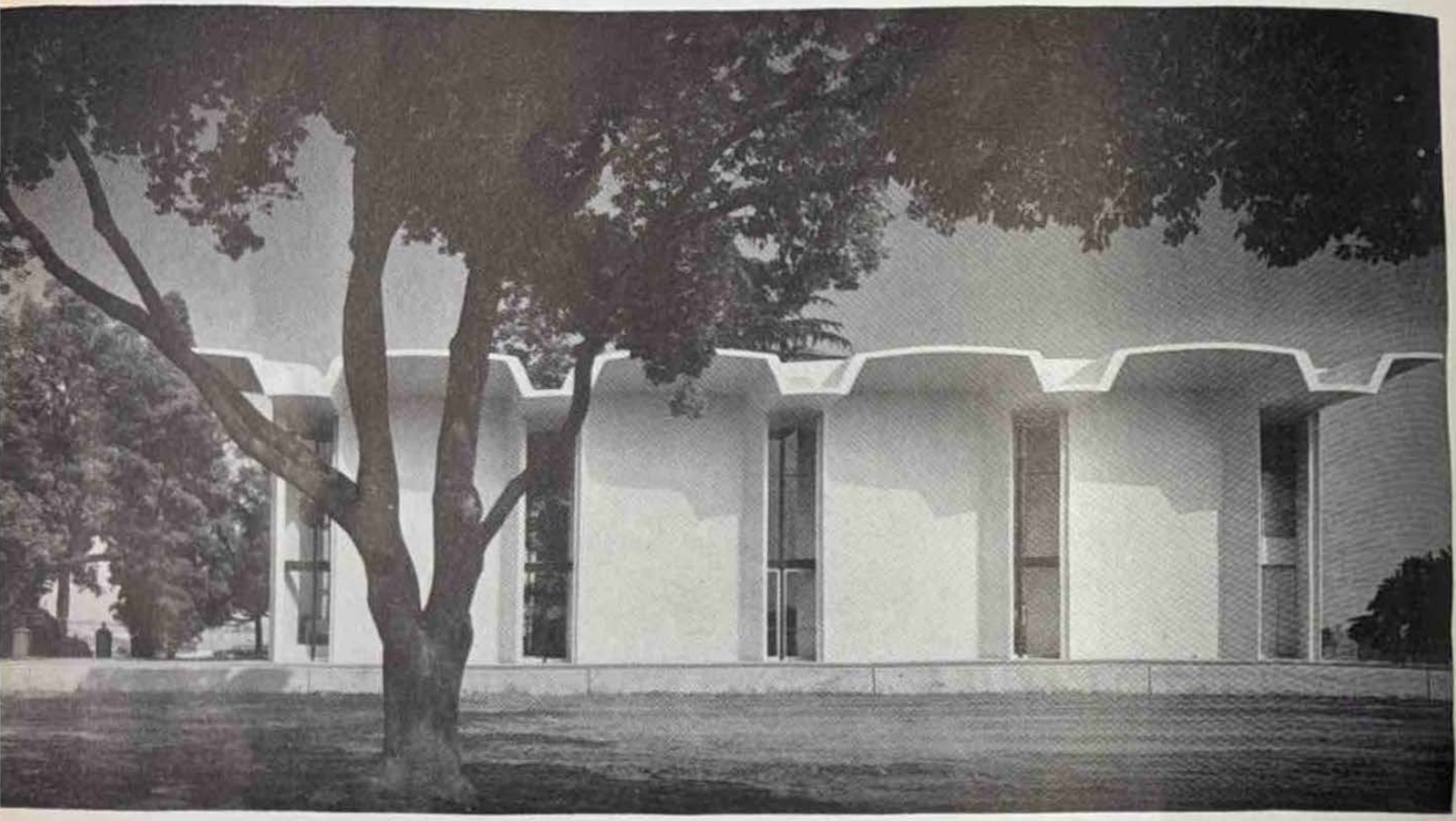
Concrete Sculpture in a Garden of Camphor Trees

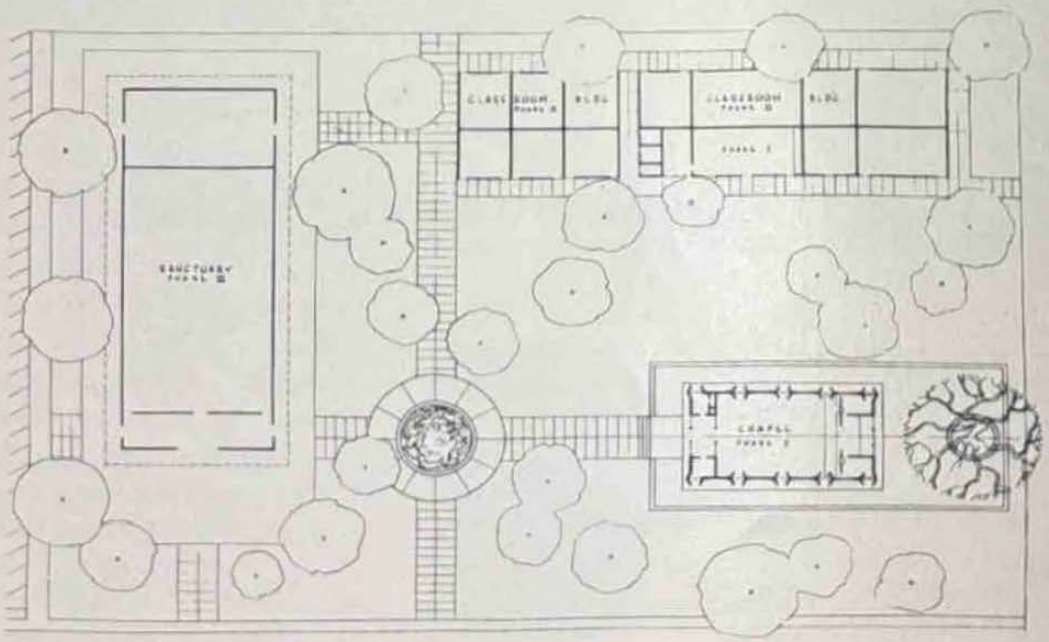
CHAPEL
FIRST METHODIST CHURCH
LaVerne, California

Ladd & Kelsey, Architects

Encino Construction Co.
General Contractors

A MOST INTERESTING DESIGN in precast and poured-in-place concrete forming a novel chapel among the camphor trees at LaVerne, California, was an award of honor winner in the 1962 competition of the Pasadena Chapter, American Institute of Architects. Sweeping lines blend with





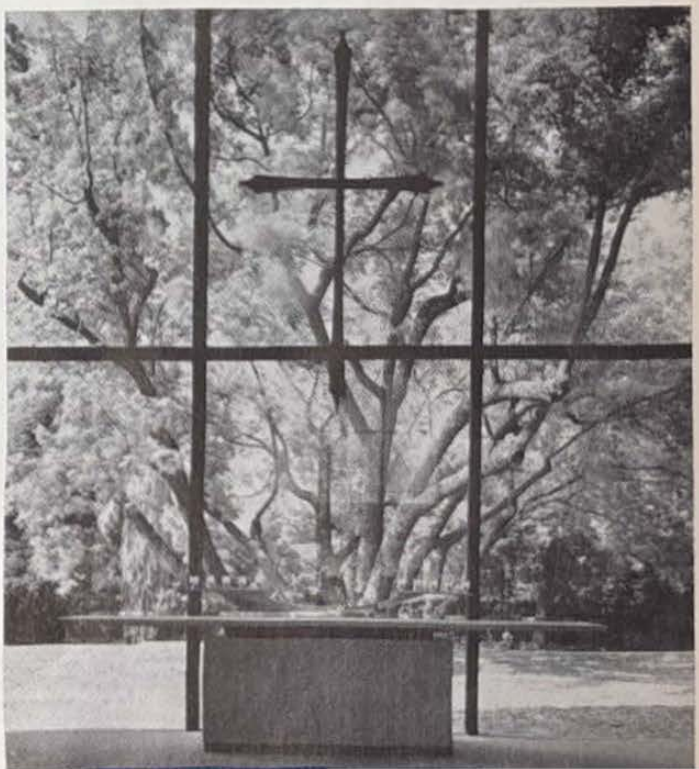
the natural setting. Color and size lend inspirational dignity and an impression of strength and reverence. The chapel, first phase in a development that eventually will include two elements of classroom construction and a sanctuary, rests on a podium of earth which will set it above and apart from the other buildings.

Floor to roof glass set in deep pockets to afford privacy, admit shafts of light, yet are protected from overhead by overhangs of precast concrete roof sections. The concrete side pockets are not only useful, but they create the basic sculptural expression of the walls.

Wall panels were stack-cast on earth forms and raised into position. Roof vaults were poured in place, using the same form five times.

The apse end of the church forms a most beautiful picture, opening through glass out onto the impressive trunk and strong shelter boughs of an ancient camphor tree.

Seating accommodates 175 people at a construction cost of $90,000.



Edmund Y. Lee Photos

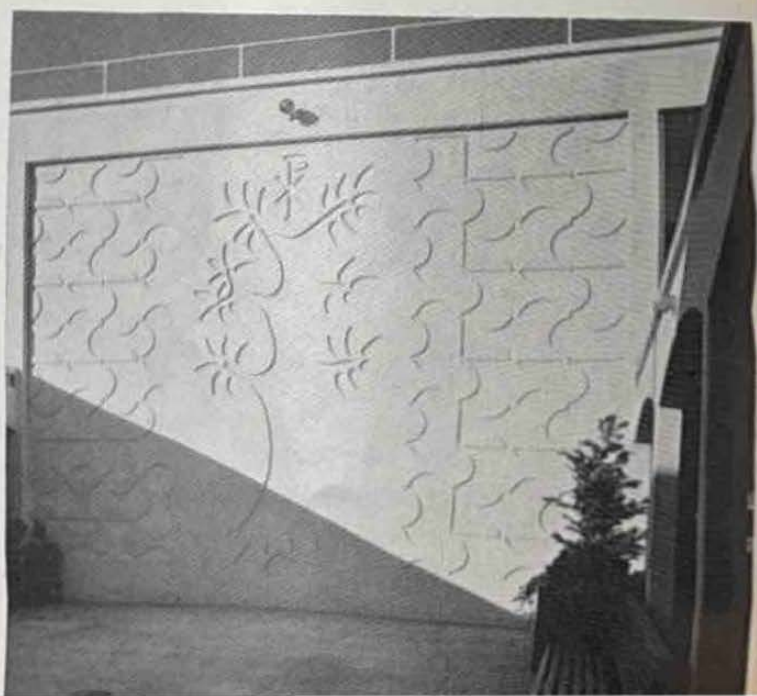
DOWNTOWN SCHOOL BY A BUSY FREEWAY

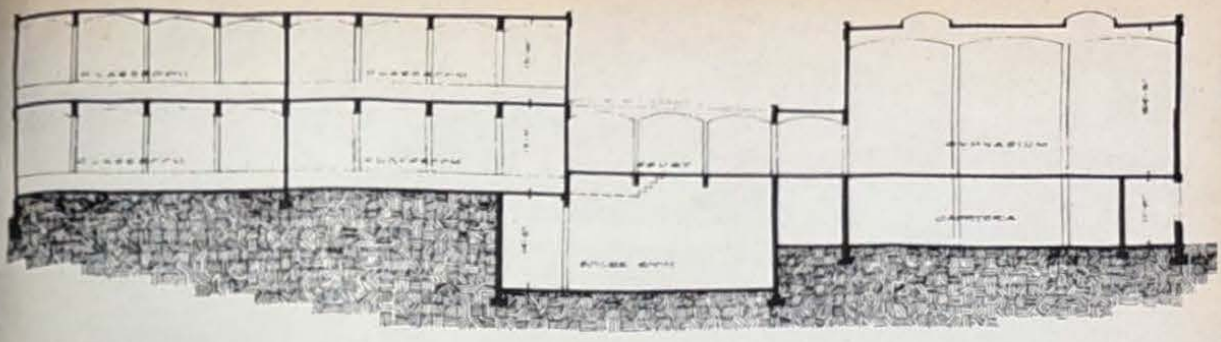
NECESSITIES seldom imposed on school architects in our wide open western spaces dictated construction of this school building with its perimeter walls tight to the sidewalks of downtown city streets.

The location, in a first fire district, also demanded the highest degree of fireproofing.

Thus we find substantial use of brick and concrete in lines that lend strength and integrity to the structure, but with the repetitive shapes of precast members and brick panels creating an appealing sense of good design.

Classroom windows look out on the quieter of the streets, while the solid panels of the gymnasium close out the freeway side of the building. To give pupils and teachers relief from such severity, the building then looks inward to a landscaped courtyard.





ST. MARY'S CATHEDRAL SCHOOL
Portland, Oregon

Franks and Norman, architects

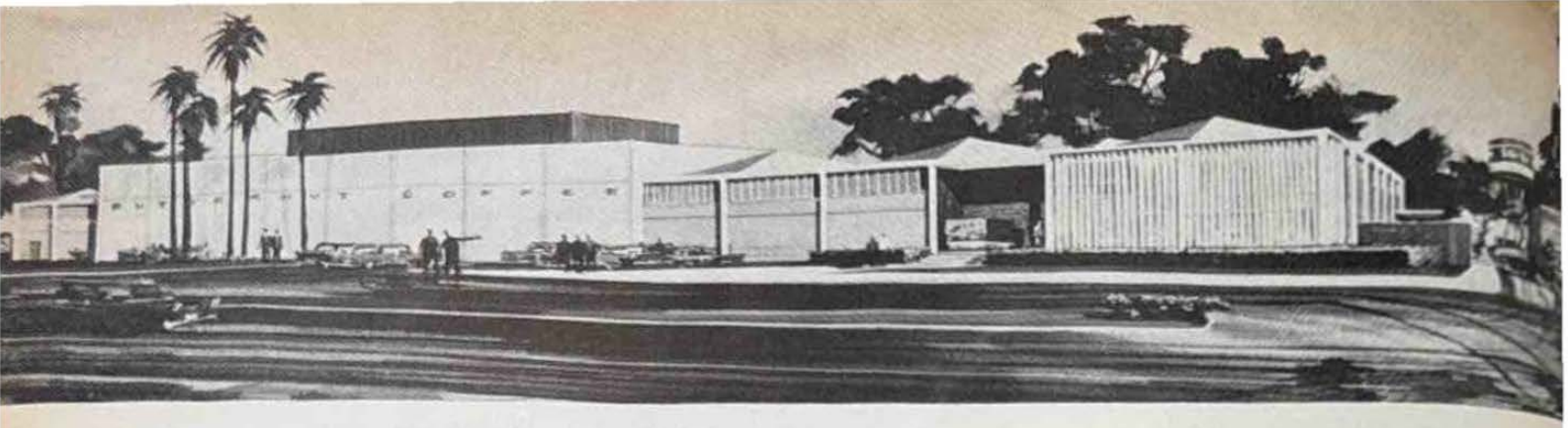
Reimers and Jolivette, general contractors

Attention was given to artistic relief in the form of sculptured concrete courtyard panel by Ray Grimm, and a ceramic tile mosaic on the stairway landing by Lolita Celsi.

Particular emphasis was given to layout to complement the teaching methods. Classrooms are developed as self-contained instructional units, each with a sink, storage cabinets, its own branch library, and large enough for great flexibility of seating arrangements. The music department is located outside the classroom area. The gymnasium-auditorium portion is located completely away from the classrooms because of noise and supplementary use for other school and church purposes.

The structure is reinforced concrete frame, with slab and beam roof and floors. Brick cavity filler walls form the exterior, SCR brick walls form the interior partitions. The gymnasium roof is precast beams with Tectum form board spanning between beams and post-tensioned roof slab.

Conservative dignity and integrity and a sense of sound construction embodying much that is timeless and some techniques as new as tomorrow are apparent in this "quality" structure.



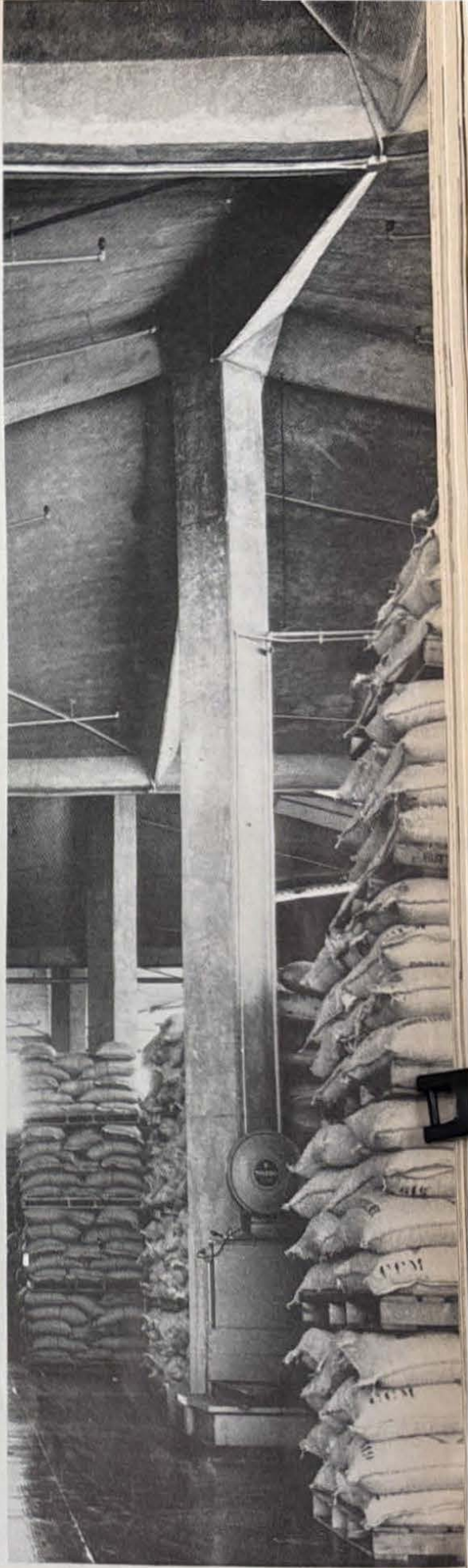
Mighty Industry Cloaked in Sparkling Facades

BUTTERNUT COFFEE PLANT
Commerce, California

Leo A. Daly and Associates
Architects

Peter Kiewit & Sons
General Contractor

I. W. Rayworth Photos



ACRES OF PARABOLOIDS and a quarter mile of pleasingly detailed concrete facades enclose this massive warehousing and processing operation.

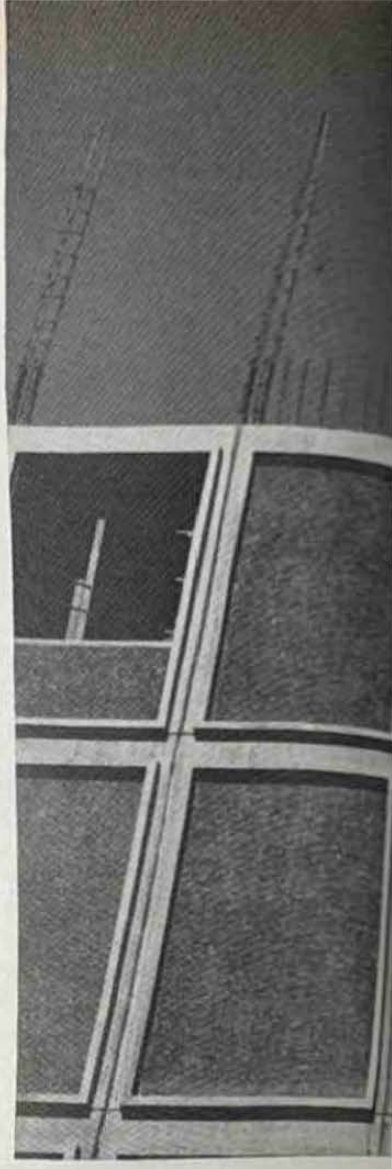
Green coffee in bags is received by rail and stored in one area and moved through blending, roasting, grinding and packaging processes in another area to final storage and shipping by truck and rail from the opposite end of the building. A small office area and lunchroom space complete the facility, which in appearance could be a school or office building far removed from commerce and industry.

Twenty-eight 50-ft. thin shell concrete paraboloids supported by center columns shelter most of the area. A high-bay and mezzanine section has a flat precast panel roof on prestressed concrete beams and girders. Special machinery extending higher, is shielded from view by a steel wall. The rest of the walls are precast concrete panels with a high strip of obscure glass. Office walls are glass set in aluminum, with exterior motor-operated sun control louvres.

Color plays a part in the overall attractiveness, with the high-bay section and roof paraboloids glistening white (Caram-Miracle roof coating), white columns and buff panels around the rest of the building, and a spot of brilliant red glazed tile at the office entryway. The steel shield atop the high bay is dark blue.

The 80,000 square foot plant was built at a cost of $10.28 per square foot.

Laboratory Precision, Small Tolerances and Highly Predictable Results



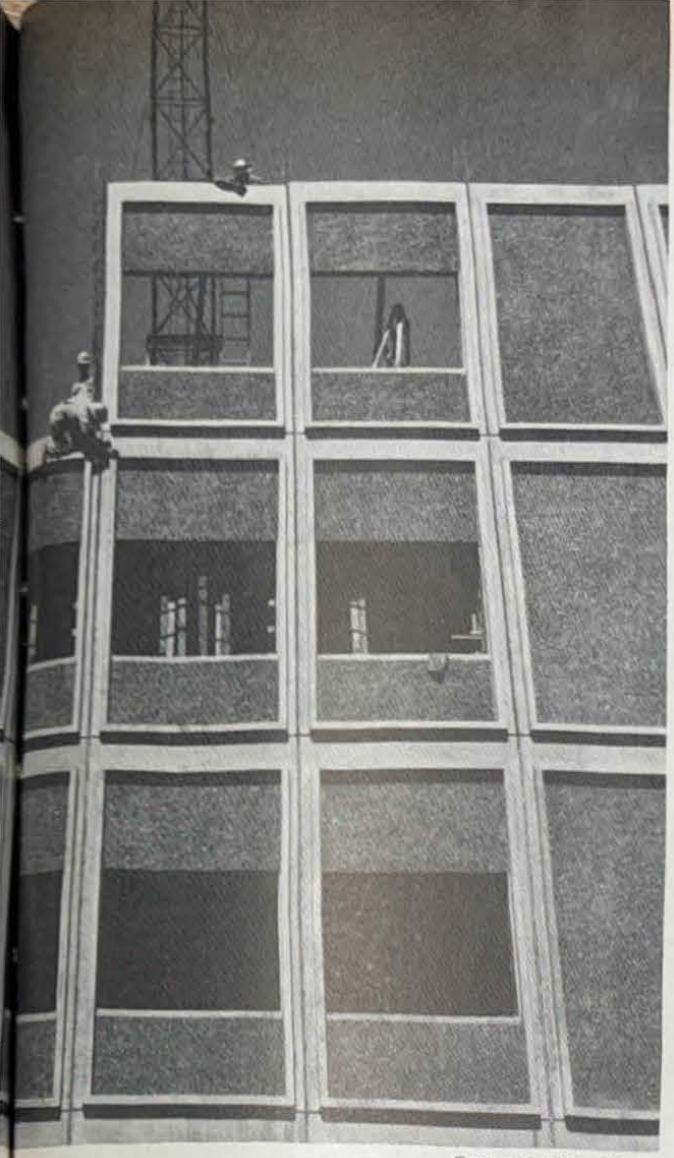
PRECISION-CAST structural panels that go in place at the rate of 2½ days per floor are speeding this seven-story, 122x94-foot, 80,000 square foot building on the campus at Berkeley.

Construction is of reinforced concrete pan joist floors spanning one third the short dimension. Exterior wall panels are of precast prestressed concrete that are designed for seismic, lateral and vertical loads, as well as incorporating a pre-selected exposed aggregate that is cast integrally with the panels. This method of "shop" control of structural panels (forming the exterior exposed surface of the building) insures construction to extremely small tolerances, prestressing operations and casting to laboratory precision, and results in a finished product that is highly predictable in the design stage.

The panels are sub-contracted to Basalt Rock Company who manufacture on a mass production basis at their plant in Napa, California about 40 miles from Berkeley.

The general contractor is pleased with the method of construction in that this work is delegated to specialists who have the facilities and experience to carry through the contract design requirements, and the construction techniques allow a more rapid rate of construction than one involving jobsite variables, scaffolding and manpower.

The completed structure has a hipped roof of clay tile at the perimeter, dark color anodized aluminum window units set in the opening of precast concrete panels, and the overall design will be one of dark toned, pre-weathered concrete, yet upon closer examination the textural qualities and subtle color definition of the exposed aggregate is apparent. The strong grid pattern lends a unifying effect to the irregular placement of the windows.



George Cocallas Photos

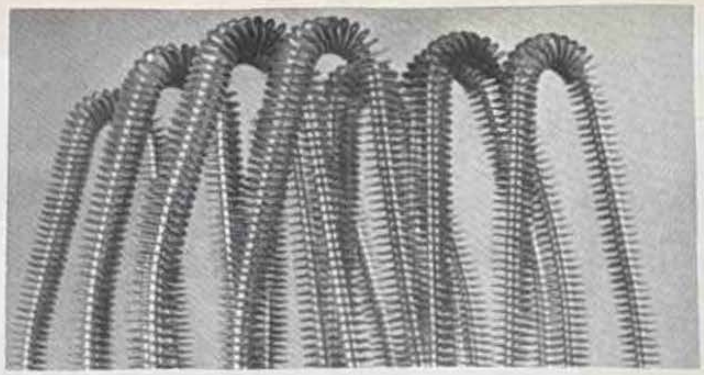
BIOCHEMISTRY BUILDING
University of California, Berkeley

Wurster, Bernardi & Emmons, architects

William B. Gilbert & Associates,
Karl Kaspin, structural engineers

Baldwin Contracting Co., general contractor

Panels swung by P&H Liebher crane are hand-guided into position next to column steel (lower left) and then checked for final alignment and bolting prior to concrete pour that will bind them together. Panels are prestressed, designed for seismic, lateral and vertical loads.



where there's "electricity to burn"

. . . Architects Have More Design Freedom

WITH CONGRESS DEBATING features of a coming intertie in transmission lines to make electric power from the Pacific Northwest available all up and down the coast, electricity as a source of heat for homes and offices gains greater potential.

It has benefits not to be denied and the prevalence of such systems is sort of sneaking up on many designers.

William Pindell, vice president and general manager of Northwest Foundry and Furnace, Portland, points out that from the view of architectural convenience there's no heat like electric heat. It gives the architect complete freedom from tank placement, fitting of pipes; instead of designing the house around the heating system, he can design the system to suit the house. There is no chimney. The plant (if it is a central, electrically heated forced air plant) can be placed anywhere.

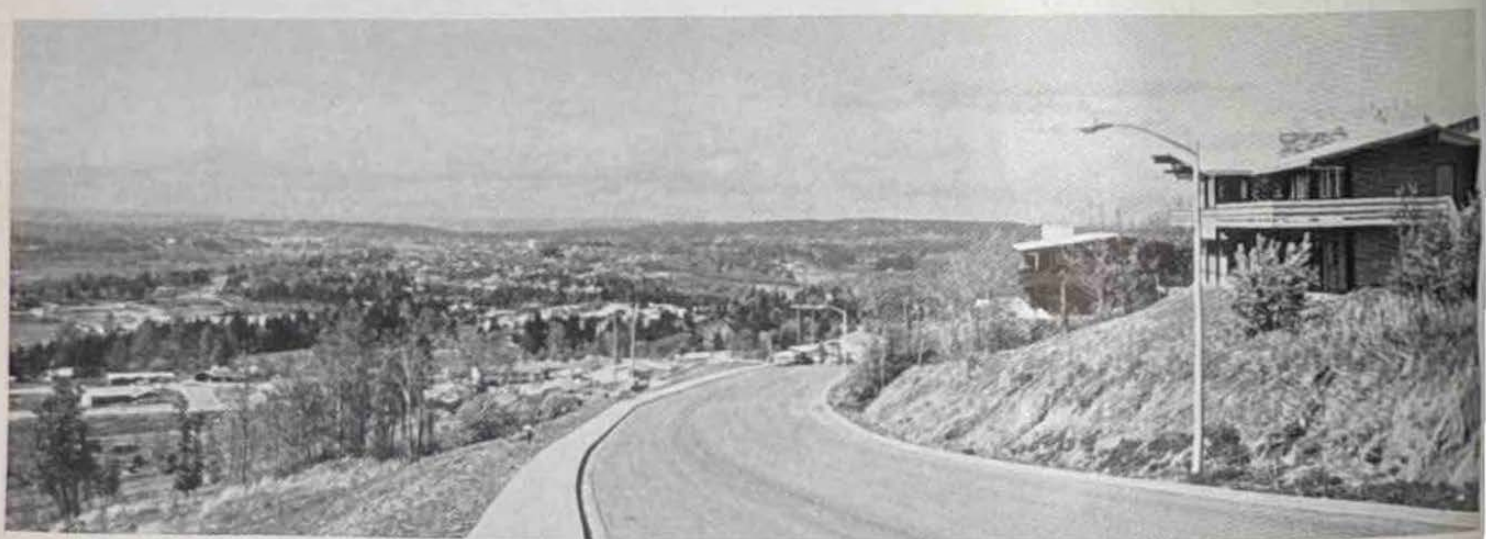
For years utility companies, short of available kilowatts, discouraged electric heating in many areas. The situation is now reversed. The service area of Puget Sound Power & Light, in Washington, for instance, had 225 electrically heated homes in 1955. Now there are 26,000. Of new homes being built, 25% are all-electric.

Baseboard electric heating is well known, but now more than 35 manufacturers are providing an electric furnace for hot air heating, which provides facilities for recirculating and electronically scrubbing the air. Such systems are equipped with zone controls, with modulators that operate few or many of the furnance heating elements depending on prevailing temperature conditions; fan speeds can be varied automatically also, the complete system of controls noiselessly and efficiently maintaining even temperatures without waste of "fuel".

Installation costs do not vary greatly from those of other systems, and operating costs in many instances are lower. In the Puget Sound Power & Light area, a survey shows an average monthly cost of $12.50 for homes having 5.5 rooms and serving 3.3 persons.

An interesting new idea in electric heating is proving unusually satisfactory, a combination of radiant baseboard units in bedrooms and basement areas, with forced air for living room, dining room, kitchen and family rooms, thus providing air conditioning for those areas, and reducing the installation costs of air ducts to the rest of the house.

Heating coils for an electric forced air furnace, top, and the furnace, immediately above. Controls modulate heat by operating various numbers of elements, changing speed of the fan. Space is provided for electronic filters. Below, Somerset, near Seattle, 100% electrically heated, with utilities all underground.



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S. Jon Kreedman & Co., Beverly Hills, Calif., an investment building firm. Owner—Builder ■ Charles Luckman Associates, Architects, Los Angeles, Calif.

Haughton's advanced program in systems research and engineering with specific emphasis on the creative application of electronic devices and instrumentation for betterment of systems design and performance. Reg. in U. S. Patent Office.

from brittle boxes . . . (begins on page 15)

Today, the architect and his building may not stand alone except at exorbitant cost to the architect and to the community. The discipline of urban planning has grown from the older and broader field of architecture and so it must be contained within architecture. But the profession of planning is in many respects antagonistic to containment in an architectural environment which has abdicated planning responsibility and seems incapable of dealing with many of the more pressing elements at work in our communities.

The planner carries his planning as far as, let us say, a 40 acre tract which usually implies public subsidy and eminent domain. It has all of the niceties of statistical evidence. It fits the community at large. But his planning seldom encompasses the necessary human amenities and personal relationships so essential to the urban environment of the future. The architect brings amenity, human dignity, human scale, a nice softness to his building, but he ignores what happens on either side of the street and across the street. And he is incapable of dealing with it. I am not saying that as we are now constituted we are capable of dealing with much of this, but we must learn ways to be able to do this.

At the present it is too often the case that the architect represents an individual client at the expense of the public at large. I think each one of you know exactly what I mean. The planner usually represents the public at large at the expense of the individual.

The future growth of our profession depends upon our ability to serve both the public and the individual. If we can do this we will in fact carry forward the historical tradition of architecture. If we do not we will become a drafting service for the euchring entrepreneur and the more socially capable planner.

That is my second proposal. That we interest ourselves in our day to day practice and lives and existence with planning and with a basis of judgment.

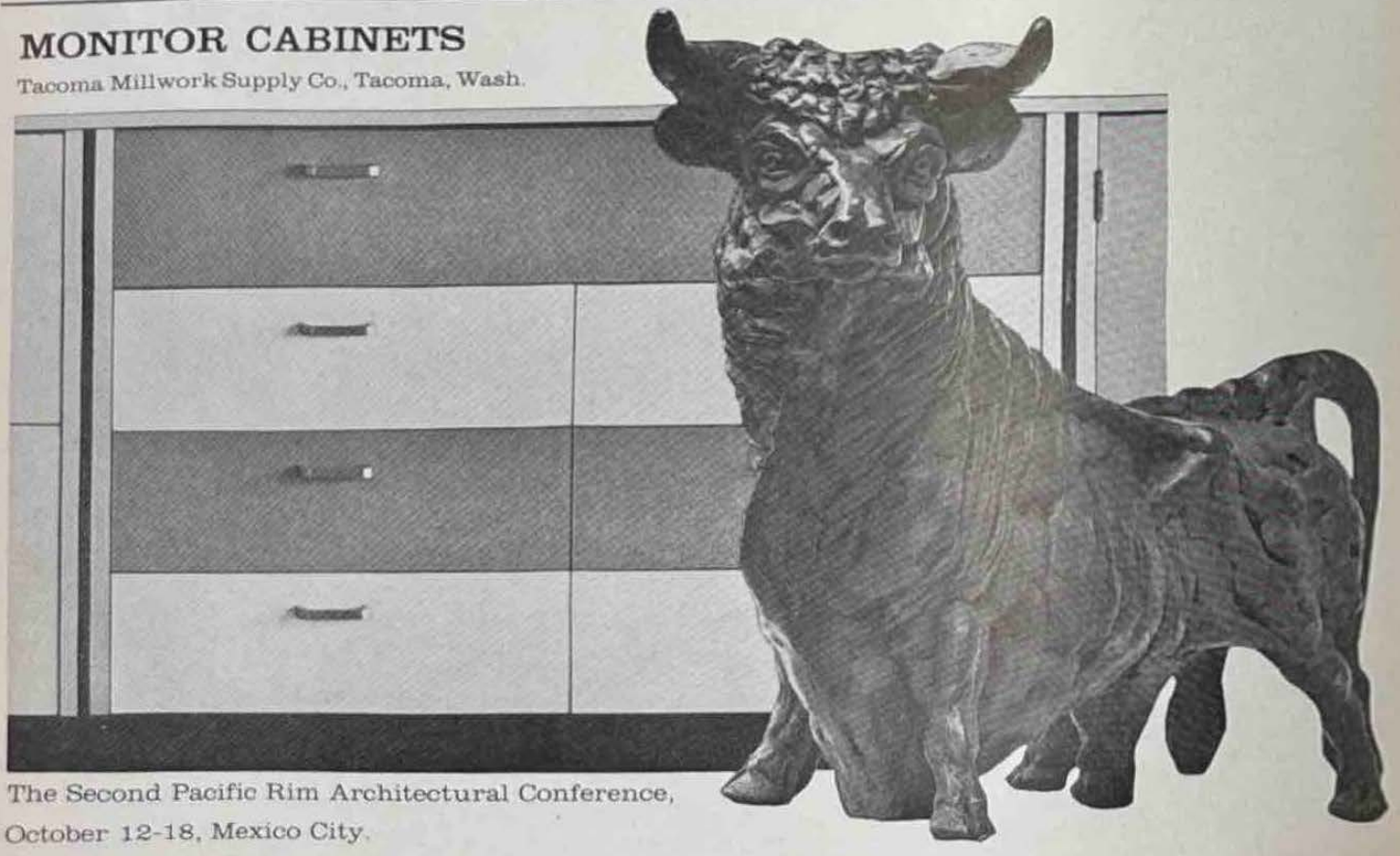
Now I would like to end with an admonition, a concern that I feel for our times. There are three related items that would make a syndrome that concern me in architecture today. These are those loose alliances between some effete men and some institutions. I am going to call the first one the journalistic eunuchs, and the second one is the adolescent dominated universities, and the third one is the Madison Avenue-wise museums. And they are in fact in many ways interrelated. I think if you have read the architectural journals recently you have seen a great change and I say that the journals are reflecting architecture because their degeneration is much faster than that of the profession. This terribly important status maker, divining rod, is no longer in capable hands. I think snobbery of sales are evident. I think in many instances all three of these are loading the superficial. I don't know of a major university who has found a way to contain planning within an architectural environment, which is essentially the third dimensional realization of the planning process.

So my admonition is: read your journals with care; look at your universities with askance, and don't go to the Museum of Modern Art as though you are making a trek in search of the Holy Grail because it is not in the Museum of Modern Art.

So I will end with again quoting from Caesar's Journal. And I think if each of you did this in the next buildings that you did, we would achieve something that architecture hasn't realized heretofore: *"For it is only by taking a leap into the unknown that we know we are free."* But that unknown is gauged by something that goes on within us that we have striven over the years to evolve. It is a basis of judgment. It is a concern for something beyond the client of the individual building that we execute.

MONITOR CABINETS

Tacoma Millwork Supply Co., Tacoma, Wash.



The Second Pacific Rim Architectural Conference, October 12-18, Mexico City.

combination doors

A new designer-styled combination storm and screen door called Twinsert gives a new dimension in outer door versatility that eliminates the need of hiding elegant entry ways. Interchangeable panels of clear glass and fiberglass screen can be changed to fit the season. A choice of Hospitality door insert panels are available to substitute for glass or screen on special occasions.—Simpson Timber Co. (A/W), 2046T Washington Bldg., Seattle.

stain, waterproof, preserve

In one operation, Thompson's Color Water Seal will stain, waterproof and preserve. Said to penetrate any material with a porous surface, such as wood, concrete, brick, masonry and fabrics, the seal is compounded from several water repelling agents and penetrates deeply to become a permanent seal against moisture, thus preserving against deterioration. Shades of any basic color are available ready-mixed, or mixing can be done by using base and regular paint or stain colorants.—E. A. Thompson Co., Inc. (A/W), Dept. PRI, Western Merchandise Mart, San Francisco 3.

acoustical metal ceilings

Especially adapted for use in large school construction projects, the large module metal acoustical ceiling panels are advantageous when used in buildings of all types. The AMC 18"x36" heavy duty panel is comparable in cost to other ceiling materials because of its size, reducing installation time and suspension material costs. Made of 24 gauge heavy-duty steel, its electrostatic enamel finish is highly washable. The panel contains a fiberglass sound absorbent pad for high noise reduction. It is removable at any point in the ceiling for accessibility to heating and electrical systems.—Acoustics Manufacturing Corp. (A/W), 17210 Gable Ave., Detroit 12.

glamour in bathroom safety

Medicine cabinets, a far cry from the condensed pillbox of a few years ago, are being designed larger to provide increased capacity for safe, handy storage of items well out of reach of small children. Lawson cabinets are keyed to a more sophisticated styling that offers double and triple door models, swinging wing mirrors, louver doors, integral lighting, slide door models and oval shaped mirrors. Most hang easily, like pictures, requiring no wall openings.—The F. H. Lawson Co. (A/W), 801 Evans St., Cincinnati 4, Ohio.

looks like wood

An embossed vinyl-asbestos floor tile that has the luxurious look and feel of wood, Embossed Natural Wood Terraflex affords the richness of wood at the low cost of easily-installed resilient flooring. The tile is designed to stand heavy traffic in home and general household use, is said not to stain, is greaseproof and is easy to clean. Available in four colors, ash, maple and teak, which may be used singly or combined to create parquet effect. Tile is 9x9-in.—Johns-Manville (A/W), 22 E. 40th St., New York.

interview desk

A new 30"x60" double pedestal interview desk, featuring knee space for the convenience and comfort of guests, has just been introduced. The 12" deep recess follows entire back-edge of the desk, allows one or two visitors to squarely face the interviewer within confidential discussion distance and with common use of the desk top. Nine interview desks will fit, with chairs, into same space formerly taken up by eight standard desks and chairs. Available in 23 acrylic finishes with plastic laminate or wood tops.—Steelcase, Inc. (A/W), 1120 36th St. S.E., Grand Rapids 8, Michigan.

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Masons Supply Co., Portland
Safway Scaffold Inc., Spokane
J. P. Glowenle Co., Honolulu

LITERATURE

Principles of Architectural Sound Control: designed as practical working handbook to assist in identifying various kinds of acoustical problems and in the solution of such problems. Booklet was prepared in cooperation with Lyle F. Yerges, a registered professional engineer, author of numerous publications on sound control. 8-pp.—Amerada Glass Corp., 3301 S. Prairie Avenue, Chicago 16, Ill.

The Award Series: a new line of office furniture, developed from designs by Selje & Bond, that combines International Steel Construction with panels of laminated Formica. Catalog shows wide variety of colors and wood grains, with desk groupings, credenzas and conference tables in both metal and wood legs. Catalogue 35.—Costa Mesa Furniture Co., 1040-P North Olive, Anaheim, Calif.

Chalkboards: illustrates cross sections of various types of Benjamin chalkboard, complete with backings such as masonite, plywood and insulite. Designed primarily for educational institutional buildings. Featured in 8-page brochure is a line of light-weight, 24-gauge steel, porcelain chalkboards that has the same lifetime guarantee as their other products. Complete specifications including framing illustration and installation details.—Benjamin Porcelain Enameling Div., Thomas Industries, Inc., 207 E. Broadway, Louisville 2, Kentucky.

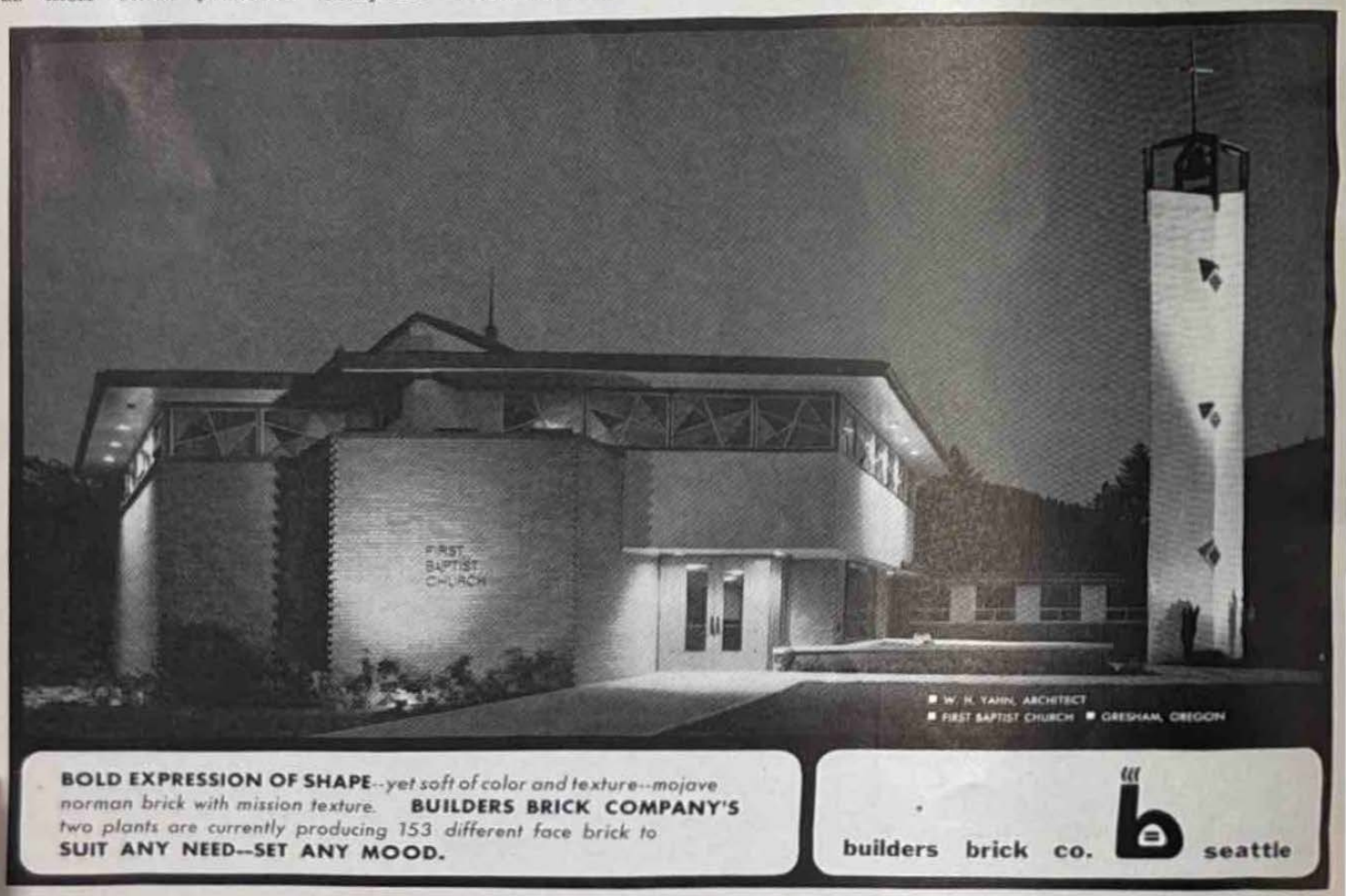
Facebrick: full color brochure offers reference material as well as description of textures, sizes and actual colors of Alberhill Clay facebrick. Included are wall cost comparison table and typical applications. 4-pp.—Los Angeles Brick & Clay Products Co., 2310 E. 7th St., Los Angeles 23.

Vertical Interior Paneling: includes typical installations of V.I.P. Formica vertical paneling for commercial and institutional walls, showing full colors, list of product features, range of woodgrains and Strata motifs available. Step-by-step installation photos are included in full color brochure. 4-pp.—Formica Corporation, 4614 Spring Grove Ave., Cincinnati 32.

Fashionable Look in Lighting: features plug-in chain-suspended Drama-Lites. Four-page catalog lists specifications and features illustrations showing lights in a variety of interiors.—Emerson Electric, Builder Products Div., 8100 Florissant Ave., St. Louis 36, Mo.

Built-Up Roofing Specifications (AIA 12-B): delineates, with sectional drawings, complete specifications for new construction, re-roofing, insulation, flashing, waterproofing and dampproofing. Information is given on flat and steep-deck construction using a variety of deck materials such as wood, concrete, gypsum and metal with surface of gravel, slag, minerals or promenade tile. Manual TA-49, 28 pp.—Tar Products Div., Koppers Co., Inc., The Koppers Building, Pittsburgh 19, Pa.

Calcore Insulated Wall Panels (AIA 17-A): shows a variety of recently completed buildings using Calcore, and gives complete specification data for both laminated and mechanically fastened panels. Details of recent tests indicating a two-hour fire rating for a Caloric panel are included. Also described are Seaporlucent glarefree translucent panels which can be used for exterior wall systems, interior partitions, canopies, carports, skylights, walkways. This is a sandwich-type structural building panel with two surfaces of Fiberglas-reinforced acrylic-polyester plastic, laminated to a specially designed interior core of extruded aluminum gridwork. 8 pp., full color.—Caloric Architectural Porcelain Division, Caloric Corporation, Topton, Pa.



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builders brick co. seattle

• **Owens Corning Fiberglas Corp.:** William H. Curtiss, Jr. has been appointed vice president and general manager, Pacific Coast Division, with headquarters at Santa Clara, succeeding John H. Thomas who has been transferred to executive offices as vice president-research and development.

• **Architectural Concrete, Inc.:** The seven-year old Denver concrete and terrazzo products firm, which sells products under the registered trade name of ARCO, moved into their new plant and warehouse facilities at 5880 Sheridan Blvd. in September, according to Jay Rasplicka, president and general manager.

• **Fibreboard Paper Products Corp.:** T. A. Deal, Jr. has been appointed Merchandising Manager, Gypsum and Paperboard Construction Materials, San Francisco. He has been with the company since 1960, most recently serving as gypsum sales representative in the Denver area.

• **Tacoma Millwork Supply Co.:** Lawrence Berg, 44, Director of Marketing for the Monitor Cabinet manufacturing firm, Tacoma, died of a heart attack in August. He was formerly an architect in the Seattle firm of Naramore, Bain, Brady & Johanson.

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• **Chemically Prestressed Concrete Corp.:** Richard R. Pegram, president of Concrete Research and Development Corporation, Van Nuys, has been elected president of the newly formed corporation. The firm holds basic patent rights to products in the field of expansive cement discovered by Alexander Klein. CPC Corporation will conduct research into applications of special cements and develop engineering criteria. Other West Coast officers include Peter S. Hass, executive vice president of Permanente Cement Company, Oakland, who was named chairman of the board, and Edward K. Rice, president of T. Y. Lin and Associates, Van Nuys, secretary-treasurer.

• **Koppers Co., Inc.:** S. J. Katz, western district manager, Tar Products Division, has named John E. Stewart sales representative for protective coatings in southern California, Arizona and New Mexico. He succeeds H. E. Tillman who has been transferred to the Pittsburgh headquarters as production manager, hot-applied coatings.

• **Kawneer Co.:** Two West Coast men have been selected to serve two years on the Kawneer Dealer Panel. John Gentry, Belknap Glass Co., Seattle, and Gordon Ross, Imperial Glass & Mirror Co., Los Angeles, join five other dealers whose goal is to provide better understanding between the manufacturer and the glass and metal industry.

• **Simpson Timber Company:** Plans for a $21 million plant expansion and improvement program in Washington, Oregon and California operations has been announced at Seattle by president C. H. Bacon, Jr.

• **Pacific Industries, Inc.:** Henry L. McIntyre, president, announces the appointment of Oliver H. Gardner as president of the Custom-Aire Products Division, San Francisco, succeeding John Baeza.

associations

• **Red Cedar Shingle and Handsplit Shake Association:** Merger of the Red Cedar Shingle Bureau and the Handsplit Shake Association into one organization was announced at the 47th annual meeting in Seattle on September 20. Some 238 member mills participated in the meeting, electing Cecil Watson, New Westminster, B.C., to presidency of the new group; Stuart Ferguson, Aloha, Washington, vice-president; Virgil Peterson, Seattle, secretary-manager.

Interpace Ceramics Center will advance research

UNDER CONSTRUCTION is a new ceramics research center in Los Angeles for International Pipe & Ceramics Corporation. The structure will house five different laboratories, each devoted to a specialized field of research and testing for experimental work in company products as well as new materials and processes. There will be a large development area, administrative offices, conference room, library and related facilities.

Architects Allison and Rible, Los Angeles, have employed a contemporary steel and masonry style that will feature wall patterns of the Gladding, McBean building products manufactured by the company. Included will be several types of tile, ceramic veneer, face brick and other decorative units. The flat roof covering will be a company-manufactured burned roof tile.

William J. Moran Company, Alhambra, is general contractor.

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A/W not specified

CRITICS of William A. Bugge, one of the nation's foremost highway authorities, were wont to decry the lack of attention to aesthetics in the design of Washington's highways and freeways (even though most of these structures are not nearly as horrible as they are impugned to be).

Now that Bugge has a new task, as project director for the Bay Area three-county rapid transit system, the critics may have to admit that his heart probably was in the right place all the time.

He has appointed San Francisco Architect Donn Emmons as architectural consultant for the billion dollar project. Emmons will have responsibility for developing a comprehensive architectural design, with the assistance of local architects, landscape architects, color and design consultants. He will "be accountable for the appearance of subways, stations, trains and everything else visible . . .," says Bugge.

This important new assignment opens a new field for architectural consultation. If Emmons is successful not only in creating visual pleasure in the system, but even more importantly, in achieving the cooperation necessary in carrying his designs to fruition, then an example will have been established for closer cooperation between highway engineers and architects throughout the West.

As for the Bay Area Rapid Transit, Emmons hasn't progressed at all as yet, but has a principal goal . . . to bring the system into the human scale, and to construct facilities that will enhance the aesthetic qualities of the 27 communities along the system. We wish him well. And we salute Bill Bugge for making this possible.

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and where you will find their messages

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Architecture / West

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NOV 1 3 1963

A/W

E ONLY MAGAZINE DEVOTED EXCLUSIVELY TO WESTERN ARCHITECTURE ◆ NOVEMBER 1963

In more and MORE SHOPPING CENTERS...

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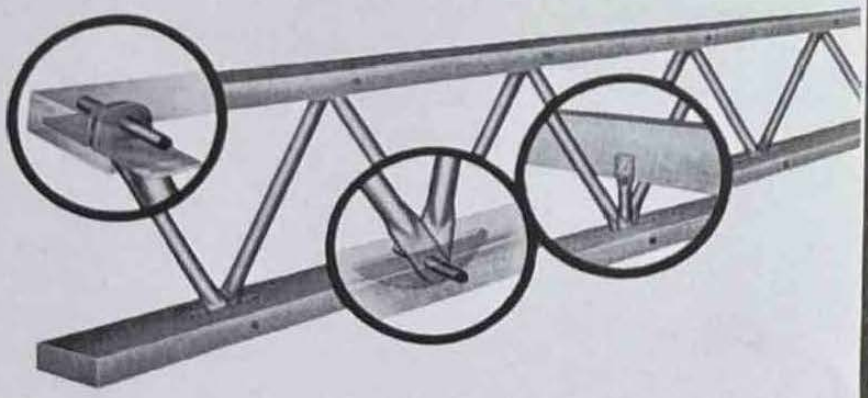

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Architecture / West

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Business data on page 34

About This Issue: The lads and lassies have returned to the founts of learning, and self-centered though they may be at this age of transition to maturity, they will be influenced by the atmosphere of their surroundings. Much has happened to "Old Main," and we've selected a few in wood and brick and concrete, from rustic and casual to the smooth and sleek, all around the West.

For instance, Bellingham, in the uppermost, outermost corner of Washington State, is about as far from the centers of sophistication as you can get, and yet its Western Washington State College is noted as one of the finest schools of education in the nation. We think it should be noted, too, for its campus atmosphere. See "An Owl on the Railing," starting on page 16, wherein a dormitory, a classroom building, and a concept of art are depicted . . . the latter by Fred Bassetti.

Three California campuses blend the modern with the architectural vocabularies of existing structures . . . a new Hall of Engineering at the U.S.C., a proposed Memorial Activities Center on the Westwood Campus at U.C.-L.A. and a chemistry complex at the University of California, Berkeley.

In Hawaii is a complex of low and high-rise concrete buildings housing a federal Center for Cultural and Technical Interchange Between East and West. The buildings are as imposing and magnificent as the name. Page 24.

At Boulder, Colorado, a community center and library. Not college, but education, and an interesting building . . . one of James Hunter's talented marriages of concrete with stone. Page 26.

If you have a lift-slab in your future, don't overlook a couple of new wrinkles on page 29. They eliminate endless torturous hours of framing detail.

THE BUILDING MONTH

PEDESTRIAN MALL CREATES SALES BOOM—Pomona celebrating the first anniversary of its Downtown Pedestrian Mall, is proving that rejuvenation of a nine-block area in the heart of the business district was no freak. The city's main business street was almost derelict when property owners decided to take strong measures by banning all autos to carefully prepared parking lots and restoring downtown to pedestrian shoppers. Sales increase in the city since this decision has been higher than any other California city, and higher than the average of any county in the state. Surprisingly, half of the sales gain came from auto sales! Mayor Harry Faull said that the gain in sales proves "if you cure a city's heart its lifeblood of commerce is sure to flow strong again."

STANDARD STATE SPECIFICATIONS—The first of its kind in the nation, a new statewide standard specications manual for municipal public works construction has been distributed to 267 cities and towns in the state of Washington. Covered is construction of water, sewer, and street installations. A special committee consisting of 44 individuals representing consulting engineers, municipal officials, contractors, suppliers, municipal engineers and representatives of various construction industry organizations spent more than four years in preparing the manual.

FIRE AT TALIESIN WEST—Fire in late September destroyed a five-year-old auditorium at Taliesin West, the architectural school at Scottsdale, Arizona, founded by the late Frank Lloyd Wright. School officials estimated damage at $150,000.

$67 MILLION EXPANSION—A gigantic expansion program for the San Francisco Medical Center has been approved by the regents of the University of California, and follows a national trend that relates health sciences to the intellectual world. John Lyon Reid, San Francisco architect, prepared the long range development plan, which will ultimately boost the capacity of the center from the present 10,000 students, faculty and patients, to some 18,000. The revolutionary plan calls for diverting traffic into a 700-ft. tunnel so that the ground area may be used to connect the two halves of the campus. Underground garages will hold 4,000 autos as compared to present 900. A campus center will be located on Parnassus Heights. New wing for Moffitt Hospital will employ a walkway eight floors above ground. Relocation of present clinics and new student housing, are part of overall plans. Cable cars will carry students 900-ft. up from campus to residence halls. University officials expect nearly half of the estimated $67 million cost to come from Federal sources.

BID DATE SERVICE—The Seattle Northwest Chapter of the Associated General Contractors, and the Seattle Construction Council, have set up a new service to the construction industry in Western Washington. Upon request, any architect, engineer, or awarding authority will be advised of the previously scheduled bidding activity for any specific date. The purpose is to assist those interested in requesting bids to do so on a date and at a time more advantageous to the public and to the bidders. The two sponsoring groups are located at 215 W. Harrison St., Seattle.

Highlights & Sidelights

SCHOOL DESIGN EXHIBIT—The 13th annual exhibition of school designs sponsored by the California Council, AIA, will be shown at the annual conference of the California Association of School Administrators in Brooks Hall, San Francisco, December 3-6. Exhibitions are limited to architects licensed in the state of California. Subject matter will be on school plants showing facilities of the elementary, junior high, high school or college level. Deadline for applications is October 31. Complete details and applications available at the CCAIA headquarters, 1736 Stockton St., San Francisco.

SEVEN-YEAR BILLBOARD BATTLE—The Great Billboard Battle, a seven-year-old war between advertisers and nature lovers to control the view from the nation's highways, shows little signs of waning. Architects all over the nation have backed legislation at city, county and state level, only to see it go down to defeat in most instances. But the billboard control advocates aren't admitting defeat and the war seems likely to rage on. In the seven years since the government offered a cash bonus to states which restricted billboards along interstate highway systems, a total of 127 billboard control laws have been introduced into 44 states. Only 20 measures have been adopted. The bonus law provides a cash payment of one-half of one per cent project cost to states which prohibit billboards and signs within 660-ft. of the right-of-way of the interstate system. The Outdoor Advertising Association of America (OAAA) claims there aren't as many billboards as people think—that by actual count there are only 375,000 true billboards (signs with a display area of at least 300 sq. ft.) in the United States. Smaller boards are just plain signs. Nobody knows how many of these there are but recent surveys in Oregon and Maryland indicate a possible ratio of 10 signs to every true billboard, an estimated total of more than four million roadside signs in the nation.

HIGHER PERMIT FEES—San Diego County building costs are being nudged upward as new electrical and plumbing fees and a new plan check fee for building permits went into effect on October 1. Plumbing and electrical fees were increased substantially to offset operational losses in the department. All building permits, where estimated value of work is over $1,000 will be up 50% over the old fee with the new requirement for a plan check fee equal to one-half of the building permit fee.

CONSULTING THE CALENDAR—First Conference on **U. S. Government construction contracts,** Statler-Hilton, Washington, D.C., Nov. 7-8 . . . Sixteenth Fall Meeting, **American Concrete Institute,** Royal York Hotel, Toronto, Nov. 11-14 . . . **National Hotel & Motel Exposition,** New York Coliseum, New York City, Nov. 11-14 . . . 10th **National Plastics Exposition** sponsored by Society of Plastics Industry, Sheraton-Chicago Hotel and McCormick Place, Chicago, Nov. 18-22 . . . **Hardwood Plywood Institute's** Annual Fall Meeting, Sherman House, Chicago, Nov. 12-13 . . . 1963 Fall Conferences, **Building Research Institute,** Mayflower Hotel, Washington, D.C., Nov. 19-21 . . . **Second conference** on U.S. Government construction contracts, Fairmont Hotel, San Francisco, Nov. 25-26.

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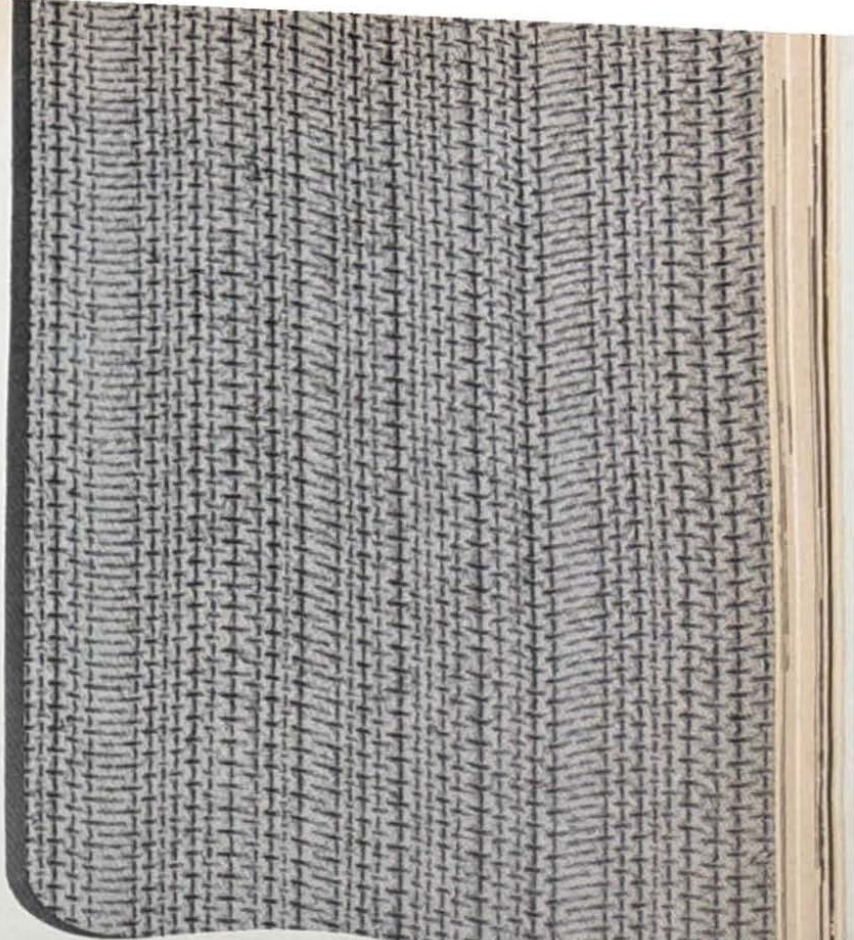

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THE MAGIC MILLION—The Denver metropolitan area has officially entered the magic-million plus population list, making it the 26th most populous center in America. Sales Management Magazine, in a recent survey, listed the Denver area as 24th in the nation in effective buying income, 19th nationally in purchases of general merchandise. In 1962, metropolitan Denver had a buying income estimated at $2.4 billion. Backing up this survey, the Bureau of Business Research at the University of Colorado found that all retail sales, exclusive of autos, was up 62% in the second quarter of 1963 over the same period last year, or from $26.5 million to $43.1 million.

STANDARDS FOR LANDSCAPE ARCHITECTS — The Phoenix, Arizona, chapter of the Construction Specifications Institute, has taken the initial step among the 51 chapters in the United States in appointing a committee to draw up specifications standards for landscape architects. F. J. McDonald, ALCA, CSI, a landscape contractor, will chairman the committee, whose findings will be reported through the CSI national headquarters in Washington, D.C.

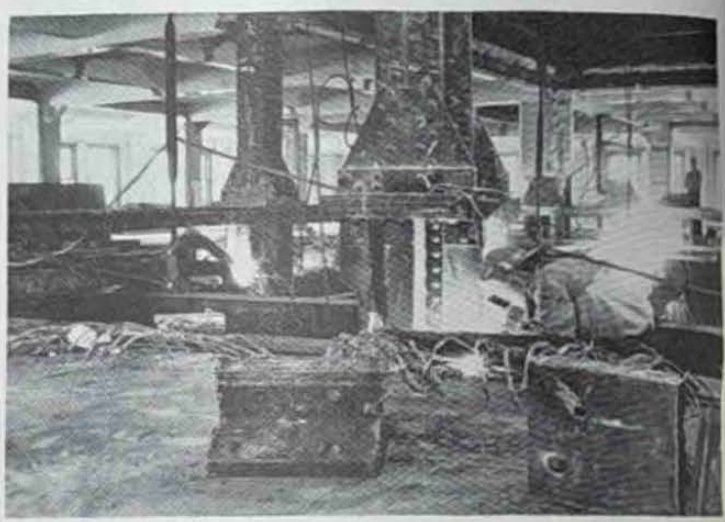
SAVE THE SANTA MONICA MOUNTAINS!—City Plan No. 9708, a proposed preliminary general plan for the Santa Monica Mountains, encompassing an area of approximately 58,000 acres beginning at Griffith Park and extending westward to Topanga Canyon, has aroused the citizenry of that area to circulate petitions on behalf of the preservation of the area. In a sharp rebuke of the plan, the Southern California Chapter, AIA, has asked that it be reconsidered by the city.

The AIA Chapter recommends against the adoption of the plan until further study can be directed to the fundamental assumptions on which the plan is based. In a five part general evaluation of the plan, they ask review of: (a) **the basic land use** provisions calling for a community of 280,000; (b) **circulation** and **access,** population limitations and major highway plans; (c) the lack of recognition of **recreation needs** and a definite linking of a regional park system; (d) controls to preserve a **mountain character;** (e) designation of locations of adequate **employment, commercial** and **community facilities.** In conclusion, the chapter made several recommendations: that present interim measures be continued or expanded to provide the necessary controls to prevent improper development of the area; that further study be given to the basic elements on which the plan is based; that if the city planning staff requires assistance, a private planning firm also be retained; and that a General Plan be followed by a precise zoning plan to provide a comprehensive framework for development of the balanced usage determined to be in the best public interest.

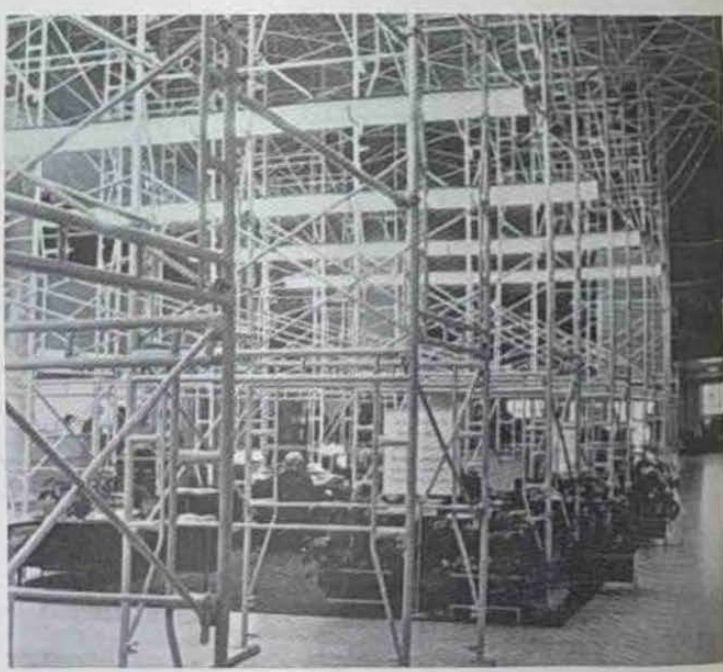
Citizens have formed a Santa Monica Mountains Regional Park Association for the preservation of the undeveloped land lying between Sepulveda Canyon and Topanga Canyon, an area of about 25,000 acres. The SMMRPA has already far exceeded the necessary 5000 voter signatures on a petition circulated requesting a public hearing on the establishment of a Regional Park District by the County Board of Supervisors. If approved, the issue would be placed on the next general election ballot. The Association has received the endorsement of Governor Edmund G. Brown as well as local newspapers and other prominent civic organizations.

ADDITION HOLDS WI

Message from above. Removing steel girders.



Girders in 1914 for 11 additional stories.



New Accounts, and without a hard hat!

RADITION . . . . Denver Landmark Retained

JOB OF THE MONTH

COLORADO NATIONAL BANK
Denver, Colorado

Rogers/Nagel/architects

Ketchum, Konkel, Ryan and Fleming, structural engineer

N. G. Petry Construction Co., general contarctors

THE TIMELESS FLATIRON BUILDING, focal point of New York's Times Square, may be emasculated with a gaudy new curtain wall, but not the Colorado National Bank, in Denver. Here, in an object lesson to architects, the colonnade and architrave of the existing sturdy status symbol will be retained and matched in the addition, rather than gift wrapping the old building in an innocuous envelope.

By dramatizing salient features of the original structure, built in 1914; maintaining the building column module, using the same white Colorado Yule marble, the additional three stories to be added above actually enhance the old structure. The image of the 100-year-old, reliable, stable banking institution will be continued with this new work, which involves approximately 100,000 square feet at a cost of $4,500,000.

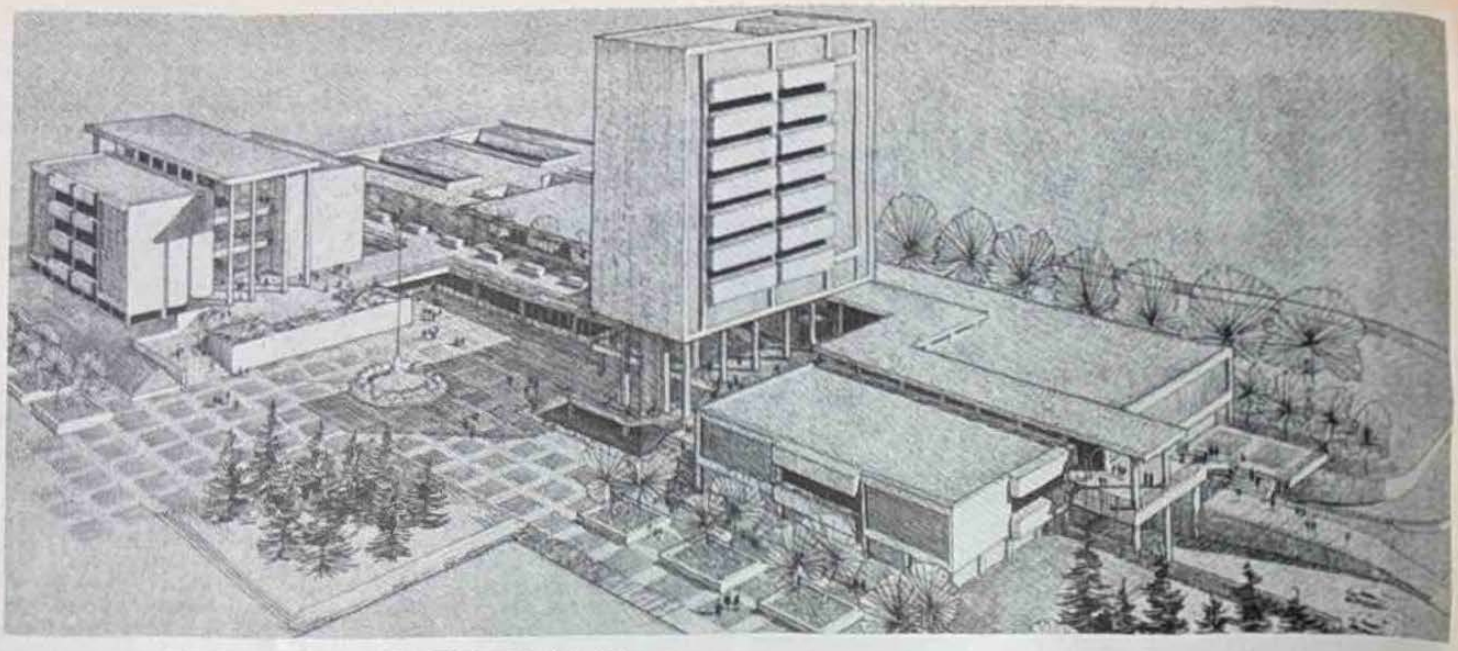
Heavy steel girders for an originally proposed 11-story addition have been removed and modified, and the steel frame for the addition raised above the existing roof. Marble columns and arches are being backed with steel sash and bronze trim glazed with inch-thick insulating solar bronze glass mounted in neoprene gaskets.

In the interior executive and trust offices are being moved from the main banking level to make more room for customer activities in the lobby, and two elevators are being added to serve the higher levels. The basic architectural character of the lobby is being retained, using cast plaster ornaments in the coffered ceiling, Colorado Yule white marble, Roman Travertine and Italian Hauteville.

New areas in the upper floors will be treated with today's materials including high pressure laminates, vinyl wall coverings, acoustical ceilings and rosewood paneling.

The completed bank, remodeled, and with three-story addition, retains beauty of original structure.

Cast plaster pendants to reproduce existing coffered ceiling in lobby, stacked awaiting installation.

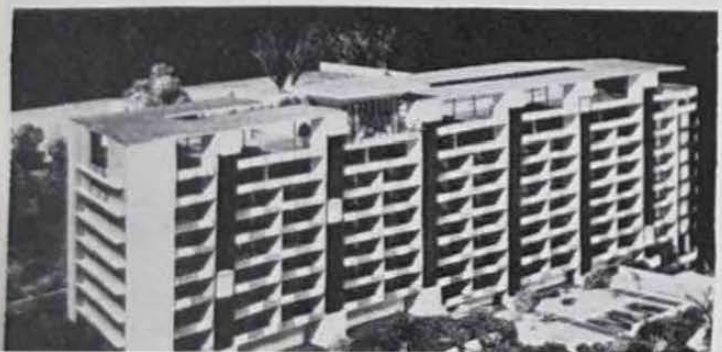


METROPOLITAN HALL OF JUSTICE, Salt Lake City, presently under construction, is sited on a 10-acre city block. An underground plaza extends the entire length of the complex. An 11-story high rise building houses all city and county law enforcement offices. Other structures, ranging from one to five stories in height, are for city and country district court offices, a combined city-county jail with a capacity of 423 prisoners. A two-story plaza includes underground tunnels to transport prisoners, parking garage, gas station. Ramps for public and police use connect various divisions. The plaza, which doubles as a fallout shelter with its own decontamination center, filtered air system, emergency electrical system, can accommodate 1000 for three weeks. Jail openings face into four interior courts. Complex is of cast stone trimmed with granite stone. A general contract of $8.4 million was awarded Christiansen Brothers Construction Co., Salt Lake City. Architects: Harold K. Beecher & Associates.

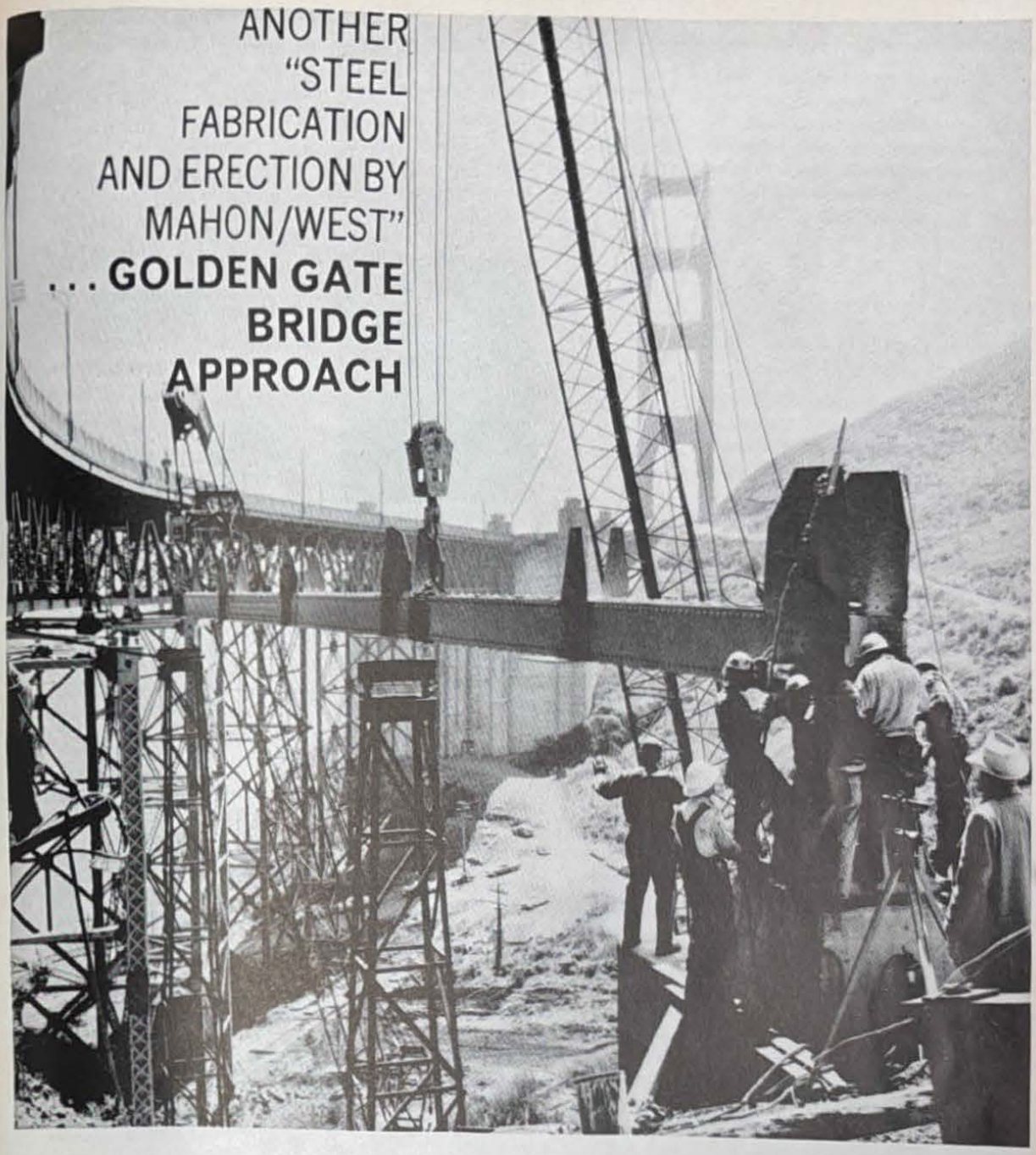
PROJECT PREVIEW

FEDERAL SAVINGS & LOAN office building, Aberdeen, Washington, will feature a batten seam copper roof and quartz faced precast concrete arches with canopy extending completely around the structure. Walls are chocolate brown brick of cavity design, exposed inside. A full basement, designed to withstand 6-ft. hydrostatic head, will provide space for banking equipment, public rooms, expansion. Main floor has two mezzanines connected by a bridge, terrazzo floors, teak panelled walls and Italian glass mosaics at vault and tellers' cages. Architects: Robert F. Street, Roy E. Lundgren.

MARICOPA COUNTY, Arizona, government complex, to provide facilities for administrative departments, Superior courts, sheriff's offices, jail and parking, has been planned for future expansion of all units by lateral or vertical additions. Present County Courthouse, new Phoenix City Administration building will comprise first stage of development. New buildings are integrated into complex by a raised, landscaped plaza that provides easy access to each building. Architects-Engineers: Stephens, Walsh, Emmons & Shanks, Phoenix.



"UPSIDE-DOWN" APARTMENT in Santa Monica, features parking in the penthouse on the two upper floors. The 11-story building, now under construction, has the main entrance, lobby and lounge "topside" and all service utility lines originate at the top of the building. Central halls are eliminated through use of six exterior elevators, each opening onto individual terraces and lobby entrances of two apartments per floor. There are 79 luxury apartments with two baths for even one-bedroom units. Structure utilizes reinforced lightweight concrete with floors of post-tensioned concrete. Architect: Kenneth N. Lind; Structural Engineer: John A. Martin & Associates; General Contractor: Fellows & Associates, Inc.



ANOTHER "STEEL FABRICATION AND ERECTION BY MAHON/WEST" ... GOLDEN GATE BRIDGE APPROACH

The new Northern Approach to San Francisco's Golden Gate Bridge was fabricated and erected by the western facility of The R. C. Mahon Co. at Torrance, California. Complete facilities and equipment plus long years of experience in structural steel work were some of the reasons why Mahon was again selected for a job of major proportions.

In fabricating the structural steel, Mahon was able to take advantage of its extensive plant facilities by "fitting up" many of the sections in the shop. They were then transported to the job site and erected. Many problems common in field fabrication were thus eliminated.

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50 MAHON

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T-SQUARE TALK

NEW OFFICES

Martin Brixen and James W. Christopher announce the formation of a partnership under the firm name of Brixen & Christopher, Architects, at 770 East South Temple, Salt Lake City.

Richard Britt, for seven years an associate in the firm of Francis Bricker, Architect, has opened his own office for the practice of architecture at 318 East Camelback, Phoenix.

Hugh H. O'Connell, Jr. and Thomas A. Priest announce their association as O'Connell and Priest, Architects, in the Burket Bldg., 740 East Main St., Ventura, California.

FIRM CHANGES

The partnership of Haines & Purhonen, Architects, at 65 E. 4th South, Salt Lake City has been dissolved. Arne R. Purhonen will continue at the present address. David C. Haines has opened new offices at 2520 South State, Salt Lake City.

Bryant Milliman has become a partner of Seattle architect Jan Kiaer. The firm will be known as Kiaer & Milliman, Architects, with offices at 1005 Lloyd Bldg.

E. Ray Schlick, former partner in the Encino firm of Lane and Schlick, has opened offices for the practice of architecture at 34143 Road 164, Visalia.

The Salt Lake City firm of Snedaker, Budd, Monroe and Associates, architects and engineers, has dissolved and the principals have established separate firms. R. Lloyd Snedaker and Wesley R. Budd will practice as Snedaker and Budd, Architects, with offices at 12 Post Office Place. William J. Monroe has opened offices at 654 - 9th East.

The firm of Louis Pursel & Associates, architects and engineers, Honolulu, announce that Homer Hungerford has become an associate of the firm.

J. D. Willis, a registered engineer, has joined the architecural firm of Eugene D. Sternberg & Associates, Littleton, Colorado, as a specialist in concrete structures.

Thomas K. Jona is a new associate in the Reno firm of Raymond Hellman, Architect.

Ross G. Viehweg has become an associate in the Provo, Utah firm of Lee C. Knell, Architect.

Telecourse on Seattle Cityscape

Victor Steinbrueck, FAIA, professor of architecture at the University of Washington, is presenting a ten-week television program on KCTS-TV, Seattle, Channel 9, Monday evenings at 8:30 p.m., this fall.

STEINBRUECK

Using drawings from his book "Seattle Cityscape," Steinbrueck revivifies the destroyed buildings of the city and points out landmarks which are important to retain the city's image. Produced to interest a lay audience as well as architect viewers, the informal course is non-credit.

HONORS AND AWARDS

Martin R. Young, Jr., Mesa, Arizona, architect, has been named a Fellow, International Institute of Arts and Letters.

Willard Jordan, Costa Mesa, Calif., has been seated as councilman for the city. His term expires April 1966.

Albert M. Dreyfuss, Sacramento, was made an honorary fellow of the Mexican Society of Architects during the International Symposium of Architects in Mexico City in October.

Four architectural firms were awarded First Honors in the 1963-64 Western Home Awards Program co-sponsored by Sunset Magazine and the American Institute of Architects biennially. A record 372 entries were screened by a seven-man jury.

Honor awards went to: Wurster, Bernardi and Emmons, San Francisco; Morse and Tatom, Honolulu; Charles W. Moore, Berkeley; Kirk, Wallace and McKinley, Seattle.

Merit awards winners: Ervin J. Bell, Sausalito; Garcia and Cole, Palo Alto; Ambrose, Swanson & Associates, Tucson; Blair & Zaik, Portland, Henrik Bull, San Francisco; Mary Lund Davis, Tacoma; Bassetti and Morse, Seattle; Wurster, Bernardi and Emmons; Killingsworth, Brady, Smith and Associates, Long Beach; Vladimir Ossipoff, Honolulu; Edgar Wilson Smith, Portland.

Special awards were given to Charles W. Moore; John Anderson, Bellevue; Bystrom and Greco, Seattle; John L. Field, San Francisco; A. Quincy Jones and Frederick Emmons, Los Angeles; Henrik Bull.

California Cites Three Architects At Mexico City Rim Conference

Three architects were honored by California's architectural profession at the Second Pacific Rim Architectural Conference in Mexico City.

William S. Allen, FAIA, principal in the San Francisco firm of Anshen & Allen, was given the highest recognition of the profession: the California Council, AIA, Distinguished Service Citation in recognition of his "diplomacy and leadership which has brought new and constructive recognition of the architectural profession by governmental agencies of the State of California."

Malcom D. Reynolds, FAIA, partner in Reynolds and Chamberlain, Oakland architects, was honored in acknowledge of three years of service to the profession as CCAIA Regional Director from 1960 to 1963.

Henry L. Wright, immediate past president of the American Institute of Architects, and principal in the Los Angeles firm of Kistner, Wright & Wright, was given special recognition for services to the profession.

APPOINTMENTS

Ralph C. Kenyon, Billings, has been appointed Assistant Architect, Division of Architecture and Engineering, Department of Administration for the State of Montana.

Four new appointments to the New Mexico State Architect Examination Board have been announced by the governor's office. Appointed were: John McHugh, Santa Fe; Will Harris, Hobbs; Jerome G. Hartger, Las Cruces, and George Wright, Albuquerque.

Raymond C. Abst, Modesto, has been appointed to serve a two-year term on the Library and Culture Commission for the City of Modesto.

University of Arizona to present G. E. Kidder Smith in lecture series

The Department of Architecture at the University of Arizona, will present New York architect, critic and architectural photographer G. E. Kidder Smith in a series of three illustrated lectures on Nov. 18, 20 and 22.

The sessions will cover "Lessons of Italian Squares," new religious buildings of Europe, and the work of Alvar Aalto. Lectures, open to the public at no charge, will be held in the University Theater, Olive Road near Speedway, at 8 p.m. on the specified dates.

While in Tucson, Mr. Smith will conduct informal student seminars on the work in the United States of Yamasaki, Fuller, Saarinen, and others.

Faulconer, UC Project Architect, Appointed to Swiss College Post

Philip W. Faulconer, project architect at the University of California San Diego campus, has been appointed consulting architect to the Swiss Federal College of Technology (E. T. H.), Zurich, to assist in planning buildings for their proposed 500 meV Isochronous Cyclotron and associated laboratories. For seven years, Mr. Faulconer was project architect for the U. of C. Lawrence Radiation Laboratories in Berkeley and Livermore.

MISCELLANEOUS

Gene Zema, Seattle architect, has given a portion of his architectural office space at 210 E. Boston, for a new art gallery. Scott Galleries, under the direction of artist Don Scott, opened to an appreciative and distinguished audience on September 28.

Elizabeth Kendall Thompson, Berkeley, is new president of the Berkeley Civic Art Commission, replacing architect Robert Kitchen, recently retired after a four-year term.

Peter R. Hanson, Laramie, has joined the teaching staff at the University of Wyoming, in the architectural-engineering department.

DEATHS

Just as Architecture/West went to press, word was received of the tragic death of Dan F. Miller, Edmonds architect, in a shooting accident while moose hunting in Northern British Columbia. Mr. Miller, 40, was a member of the Seattle Chapter, AIA, and active in community affairs. He was principal architect for school construction in the Edmonds School District, and had designed many business buildings in the area. Mr. Miller is survived by his wife and six children.

John C. Austin, FAIA, Pasadena, dean of Southern California architects and senior member of the firm of Austin, Field & Fry, died in September. His better known works include the Los Angeles Chamber of Commerce building, St. Paul's Catholic Church.

Memorial services for A. Ernest Hennessy, who passed away on October 9, were held in Seattle, October 12. Mr. Hennessy, a partner in the architectural firm of Naramore, Bain, Brady and Johanson, since 1960, became a staff member in 1948. He received his B.A. in architecture from the University of Washington and a certificate in architecture degree from L'Ecole des Beaux Arts.

Architects Northwest Combination Formed to Provide Complete Services

Five Portland architectural firms have joined together to provide a complete planning and development service for large-scale civic and commercial projects. Architects Northwest is the name chosen by the firms of Blair & Zaik, Farnham & Peck, Franks & Norman, Alex Pierce, and Stewart, Allen & McMath. The new organization will provide a total service, beginning with feasibility and site studies, proceeding through cost surveys and building design, down to interior furnishings, landscaping and promotional graphics.

Collaborative effort on major projects would be in addition to services performed individually by the member firms. Each firm will maintain its own office and identity for normal assignments.

ADDRESS CHANGES

Thomas R. Bowen to 1736 Marin Ave., Berkeley.

Earle C. Lewis to 390 Park Ave., San Jose.

Millard E. Hughes to 512 Wilshire Blvd., Santa Maria, from Modesto.

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Seattle 9, Wash.
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Vancouver 9, B.C.

Norman L. Pedersen, to 8936 S. Sepulveda Blvd., Los Angeles, from Beverly Hills.

W. L. Couverley to 416 - 8th St., Manhattan Beach, Calif.

Robert Lesser & Associates to 1129 Westwood Blvd., Los Angeles.

Martin Stern, Jr., Architect & Associates, to 9348 Santa Monica Blvd., Beverly Hills.

Heitschmidt & Thompson to 3300 Temple St., Los Angeles 26.

James W. Wilson to 708 North L St., Tacoma.

Joe Lort, Jr., to 1536 Welton St., Denver.

Samuel Wacht and Associates, architects and engineers, have moved to larger quarters at 1850 Westwood Blvd., Los Angeles.

Jack A. Charney Associates to 132 S. Rodeo Drive, Beverly Hills.

Raymond L. Luley to 124 S. Brighton, Burbank, from Venice.

William W. Louie to 3720 S. 19th East, Salt Lake City.

Geri Winfield to 11791 San Vicente Blvd., Los Angeles, from Pacific Palisades.

Edwin H. Ripperdan to 3610 Long Beach Blvd., Long Beach.

Frederick R. Bates to 3400 S. Holly St., Denver, from Aspen.

Glen R. Schauer to 4236 N. Central Ave., Phoenix.

Visscher Boyd to 70 Renato Court, Redwood City, from Los Angeles.

Scholarship and Fellowship Submissions Due

Brunner

Applications from active architects and those in related fields will be received until January 15, 1964, for the $5,000 Arnold W. Brunner Scholarship offered annually by the New York Chapter, AIA, for study in some special field which will effectively contribute to the practice, teaching or knowledge of the architectural profession. Further details are available from the New York Chapter, AIA, 115 E. 40th St., New York 16.

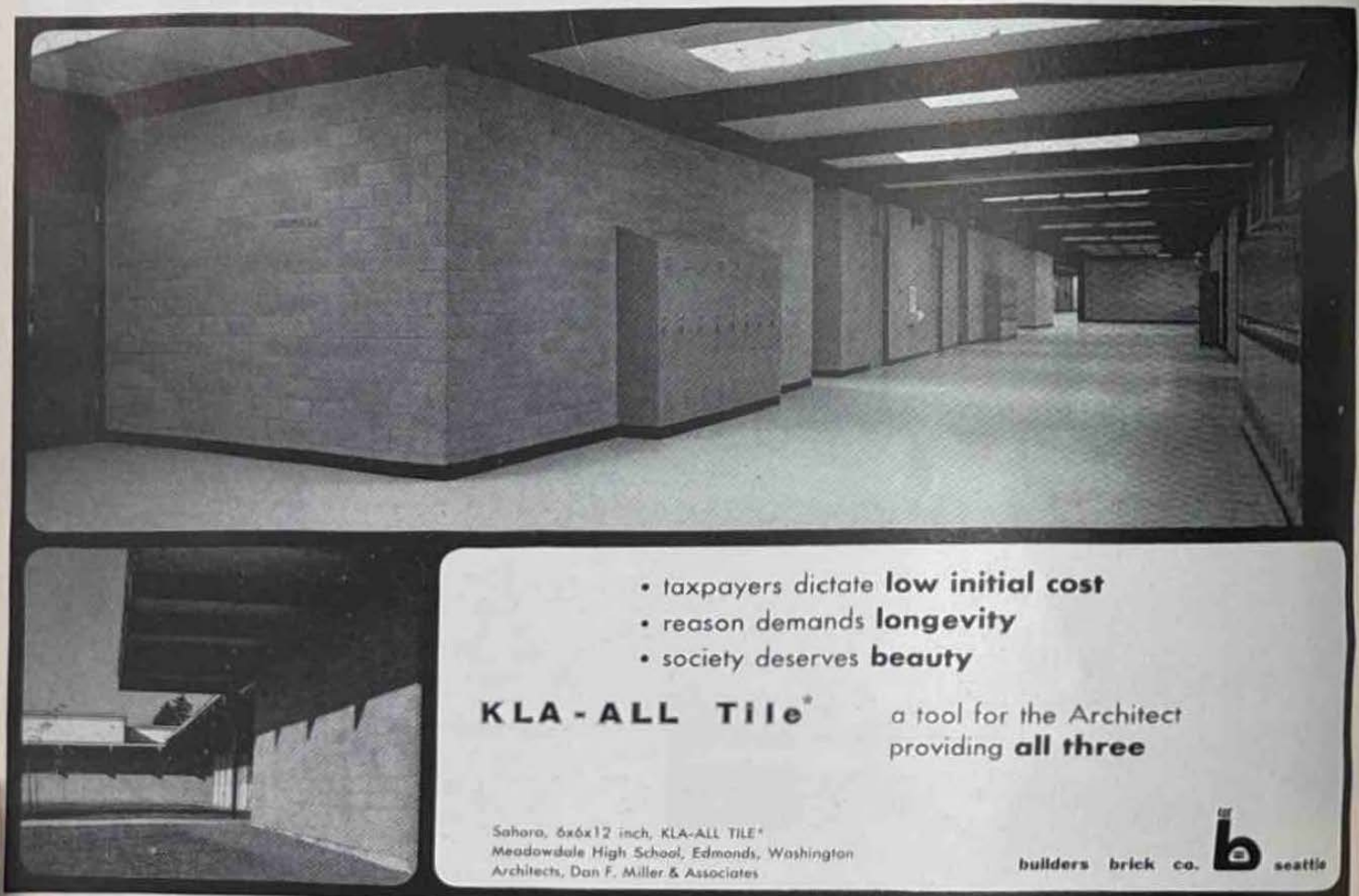
Rome

A limited number of fellowships to encourage younger architects, artists and scholars is again being offered by the American Academy in Rome. Fellowships are open to United States citizens for one year beginning October 1, 1964. Applications and submission of work must be received by the Executive Secretary, American Academy in Rome, 101 Park Avenue, New York 17, by December 31.

About Engineers . . .

● Harry Mejdell, head of the structural department in the Corvallis offices of Cornell, Howland, Hayes & Merryfield, has been appointed a senior engineer in the firm's Boise, Idaho office. Dale King succeeds Mejdell.

● Robert J. Theroux, FASCE, has been elected director of the California Water Pollution Control Association. He is a member of the Los Angeles architect-engineering firm of Koebig & Koebig.



Where the Architects Hang Their Hats

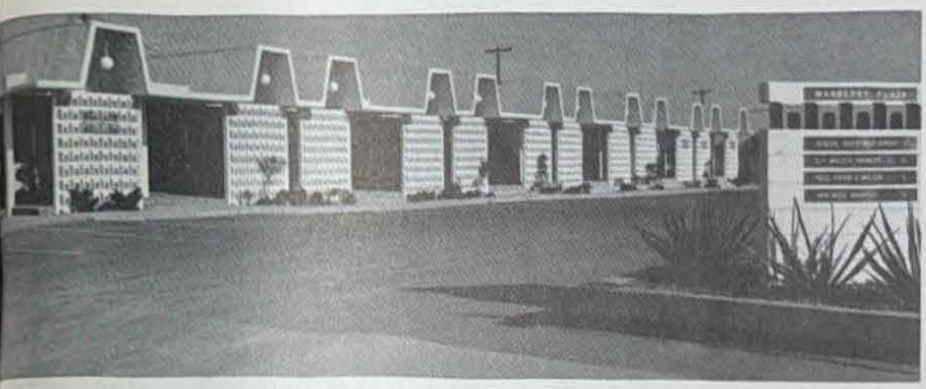
UNDER ROOF VAULTS designed to reflect the shapes of the surrounding mesas, Architect John Reed shares with Engineer D. F. Molzen & Associates one-fourth of the 9,000 square foot floor space of this attractive commercial income property.

It is a simple structure, a rectangle of 50x169 feet, providing clear span over twelve 14-foot bays that permit flexibility for tenants to expand or withdraw space at will. Storage and rest rooms are provided at the far end of each bay. Planters and simple U-block-solid block sunscreens are before each entry. The roof was poured on Styrofoam plastic forming which adhered to the concrete as insulation. The frame is poured concrete, walls are stacked bond block, partitions are rough sawn cedar and gypsum board to suit tenants. Flooring is Armstrong vinyl asbestos and carpeting over concrete slab, the ceilings are sprayed acoustical plaster.

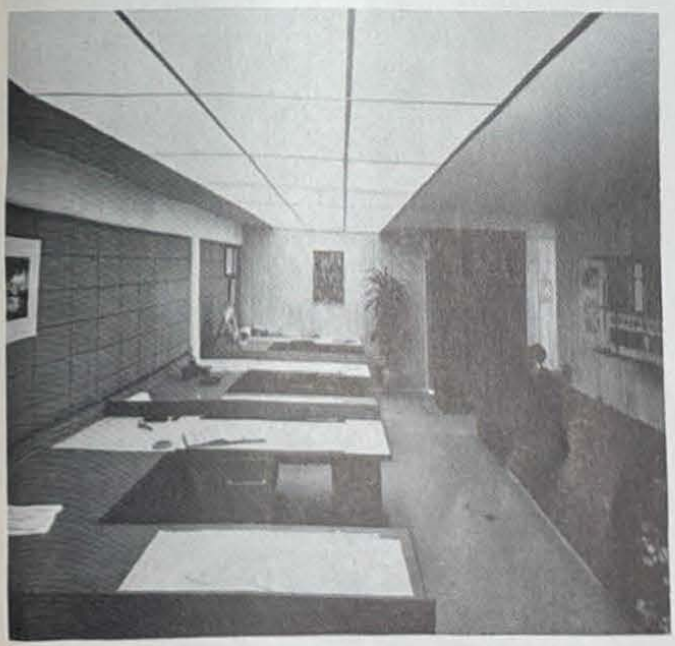
A Carrier year-around refrigerated cooling system supplies through ducts in the floor, with returns in the roof vaults. Fluorescent lighting in the vaults gives 100 foot candles at all desk areas (vaults are enclosed at the ceiling line with Circ-L-Grid luminous panels). The architect and engineer have private offices and drafting rooms, share the printing and conference rooms.

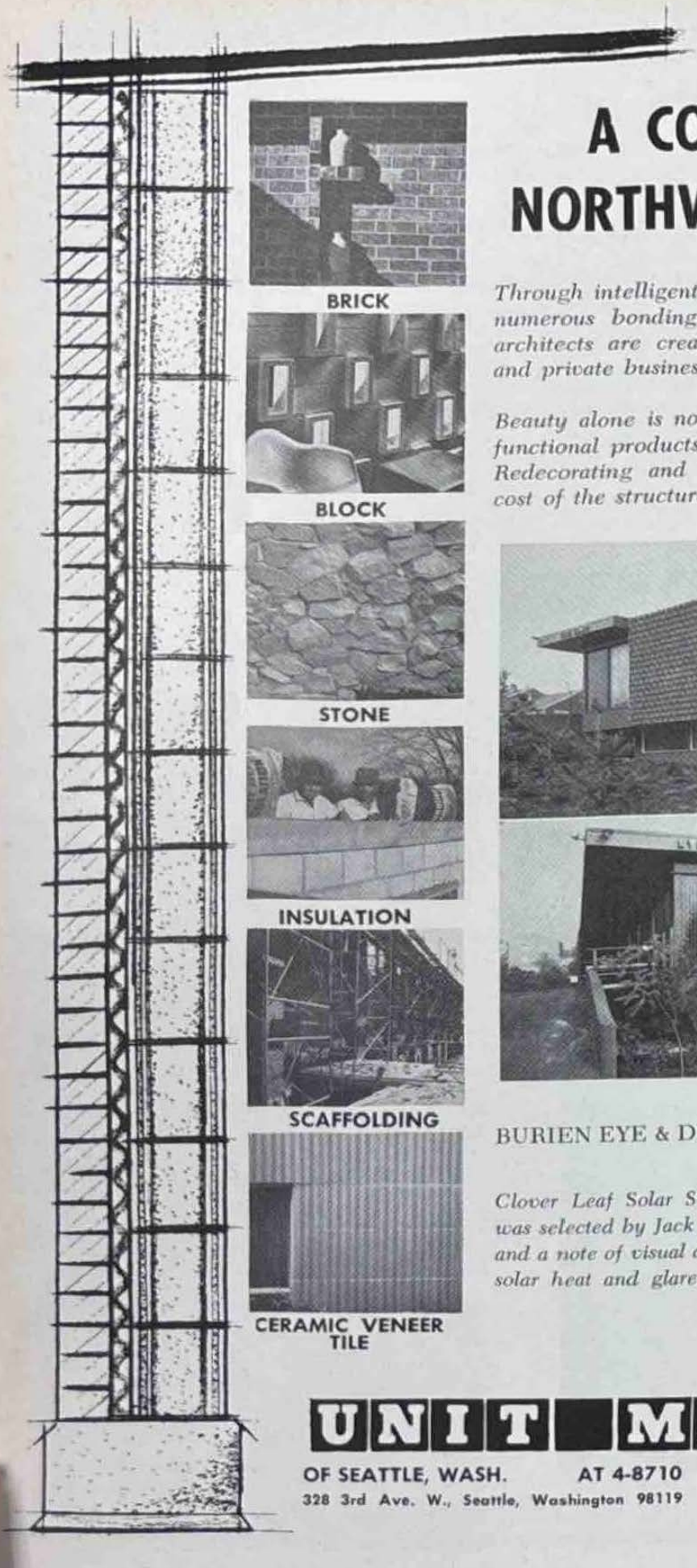
JOHN REED, ARCHITECT
Albuquerque, New Mexico

MARBERRY PLAZA



The Plaza won a Merit Award for Architect Reed at the New Mexico A I A competition earlier this year.





BRICK

BLOCK

STONE

INSULATION

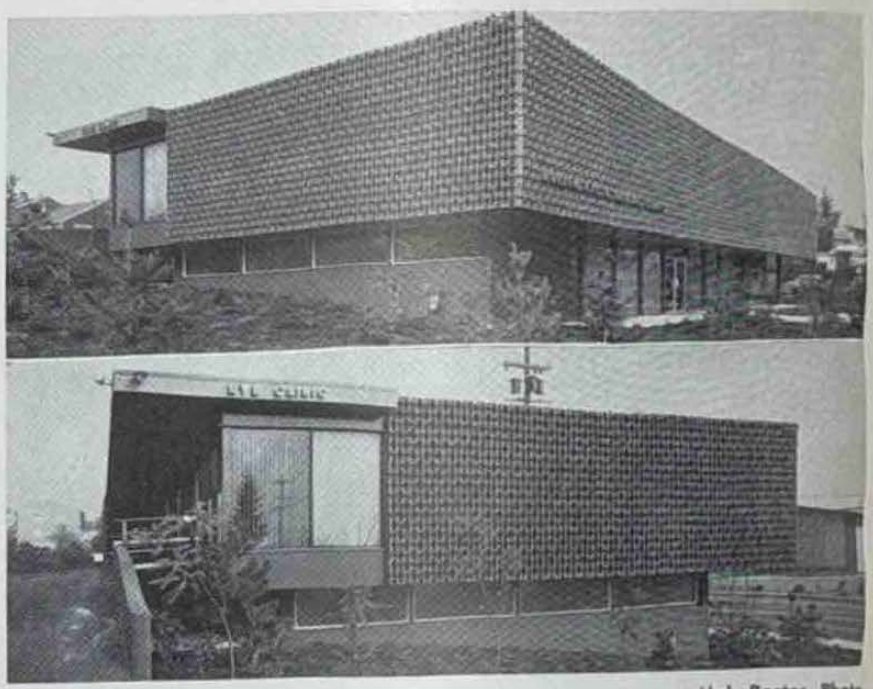
SCAFFOLDING

CERAMIC VENEER TILE

A COMPLIMENT TO A NORTHWEST ENVIRONMENT

Through intelligent use of color, varied sizes and shapes, and the numerous bonding patterns that modern bricks have to offer, architects are creating unusually beautiful structures for public and private businesses in our modern age.

Beauty alone is not responsible for the wide acceptance of these functional products today. Economy is another important feature. Redecorating and maintenance is rarely necessary, keeping the cost of the structure at a minimum.



Hal Porter Photo

BURIEN EYE & DENTAL CLINIC BURIEN, WASHINGTON
JACK N. BRYANT, A.I.A.

Clover Leaf Solar Screen, manufactured by Lowell Brick & Tile Co., was selected by Jack N. Bryant, A.I.A. for their functional use of privacy and a note of visual delight. These strong, thin units block out unwanted solar heat and glare.

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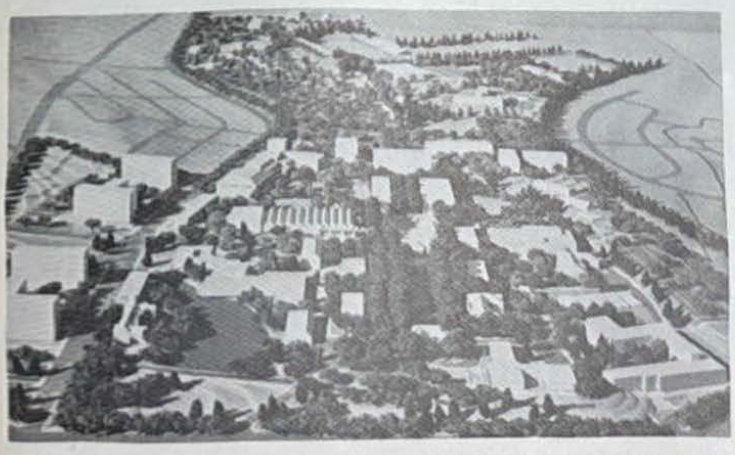
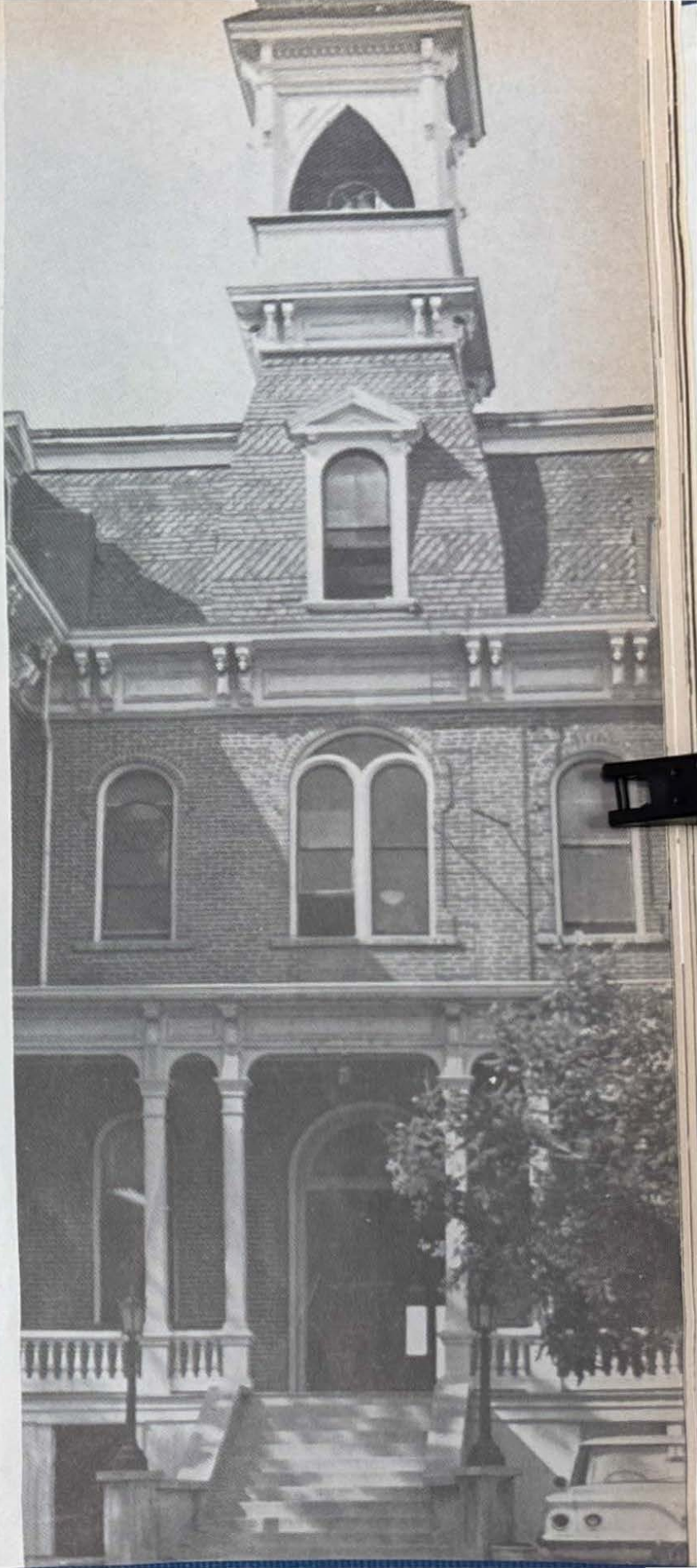
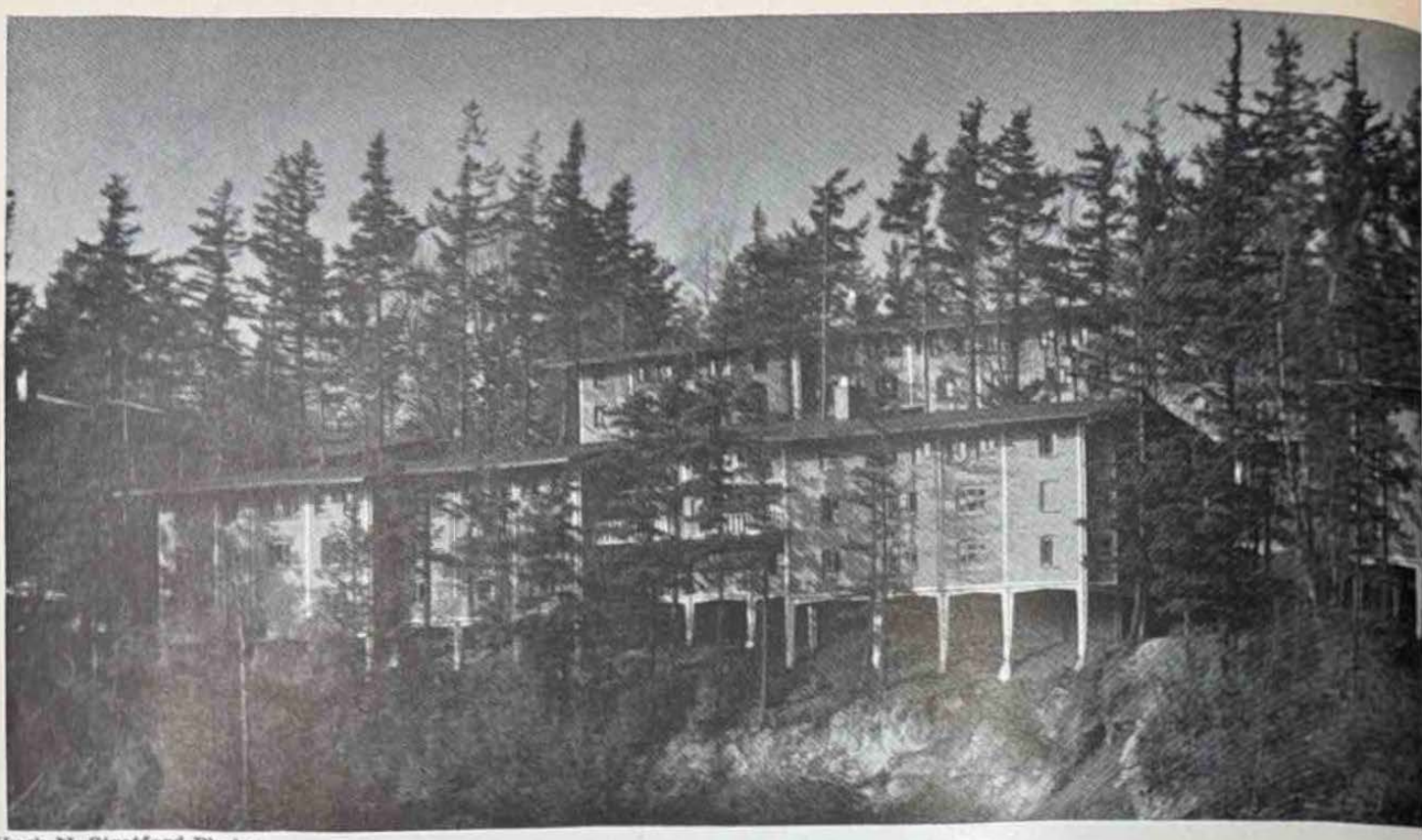
What's Happening to "Old Main?"

OLD MAIN still stands on most of the campuses, little used, buried in ivy and hidden by the ancient spreading oak. If the students look back at all, it is but hastily as they hurry by, paced into a faster way of life by the sleek designs of the new campus buildings. To the degree that the architecture of their surroundings can provide stimulation and challenge as well as functionalism, the students must benefit. And to whatever extent the presence of Old Main can slow them down again for moments of reflection and quiet introspection, this, too, is good. The following pages depict several attitudes of campus concept.

"Old Main," symbolized at right by Morrill Hall on the University of Nevada campus at Reno, will remain within the new campus concept modeled below by Skidmore, Owings & Merrill.

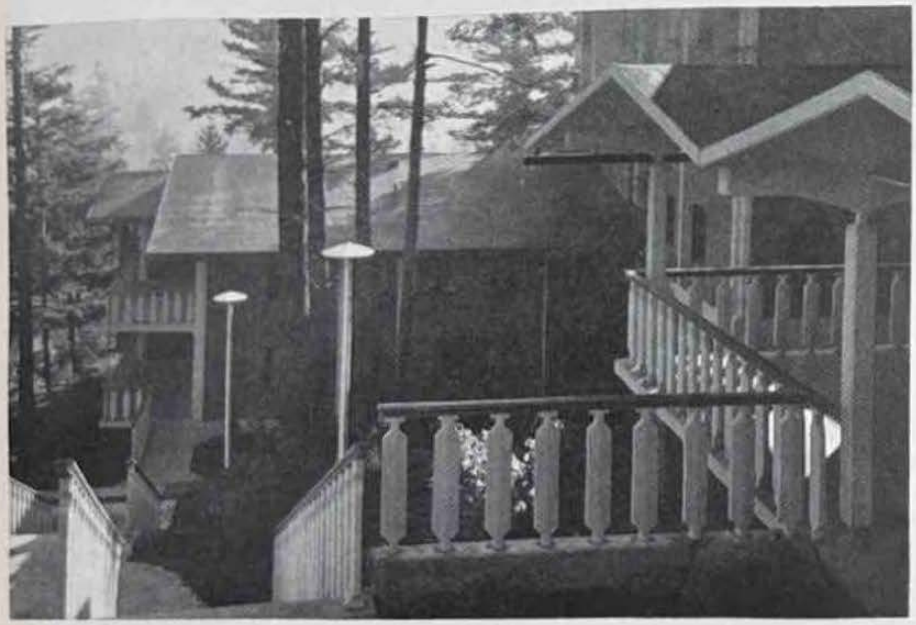






Hugh N. Stratford Photos

An Owl on the Railing . . . Corn, or Conc



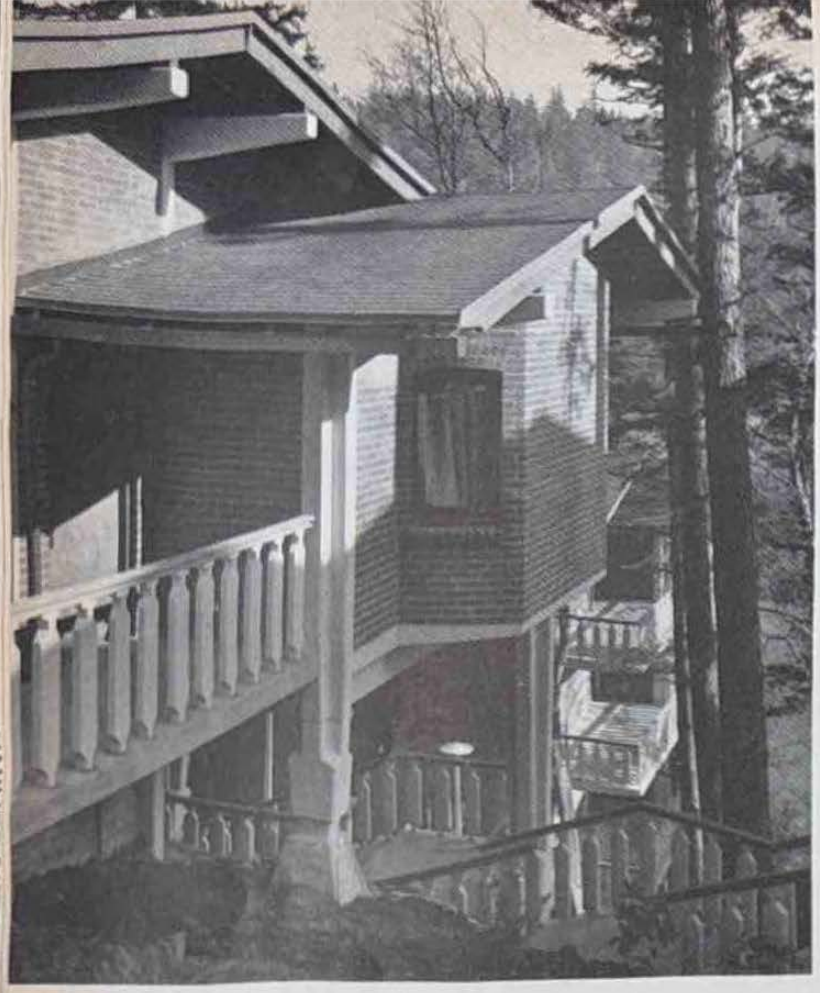
RIDGEWAY DORMITORY AND DINING HALL
Western Washington State College
Bellingham, Washington

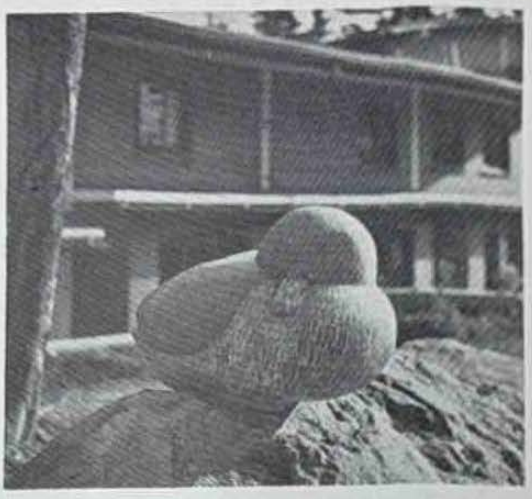
Bassetti & Morse, architects

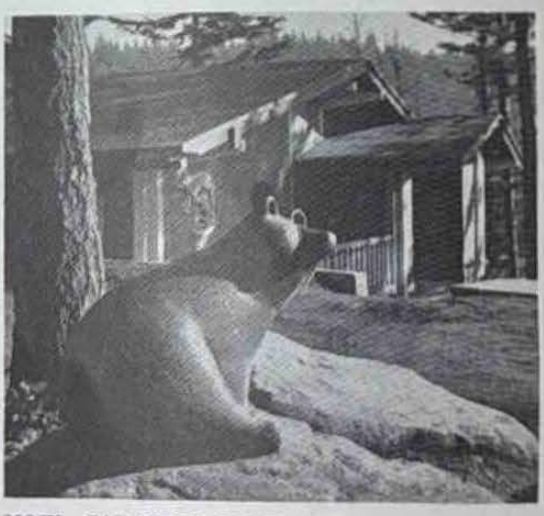
Cawdrey & Vemo, Phase I
general contractors

the Spirit?

RIDGEWAY DORMITORY, though a complex of four units for 405 students, is developed as if it were a series of comfortable residences. Tucked in and among the towering firs, the units have balconies and porches, sometimes bridging across to grade from various building levels. Walks meander off to academic areas of the campus. Simple







NOEL CARAWAN OSHEROFF
Sculpture

brick-walled buildings, roofed with generous overhangs, should prove appropriate for the development of campus traditions, and total influence is one of hominess, coziness and an atmosphere conducive to thoughtful reflection.

The young firm of architects began to be nationally published in the early post-war years. Most design competitions saw entries from these men; the two principals often served on national awards juries. The design philosophy showed a strong bent towards technological innovations. New materials, new ways of using old materials, the simplification of details—all were sought relentlessly. The pursuit of technology was often pretty exciting in itself, but sometimes at the expense of the other important architectural elements of form and space.

As buildings weather, so do people, especially architects, and this dorm and other buildings on the campus by the same firm show the effect of good basic technology matured and aged with thought for the effect of the buildings upon the people who must live with them.

Certainly in Ridgeway dorms there is no hint of building for architectural aggrandizement, but everywhere a concern for those who will live here. The wonderful use of the site, the meandering walkways, the detailing of porch railings, the intense attention to art (described on the following pages), all reflect a warmth and compassion that will impress searching young souls.

OWL ON THE RAILING . . .

To integrate architecture and art in these projects, three artists were engaged to add their visual commentary. Douglas Bennett of Seattle painted a series of abstract, almost primitive, murals in the public areas near the center of each dormitory building and in the stairs of the Humanities Building. The brilliant colors he used will be a source of gaiety for many years. This has been a return to the prehistoric manner of painting directly on the walls rather than on a canvas and hanging them in a superficial way.

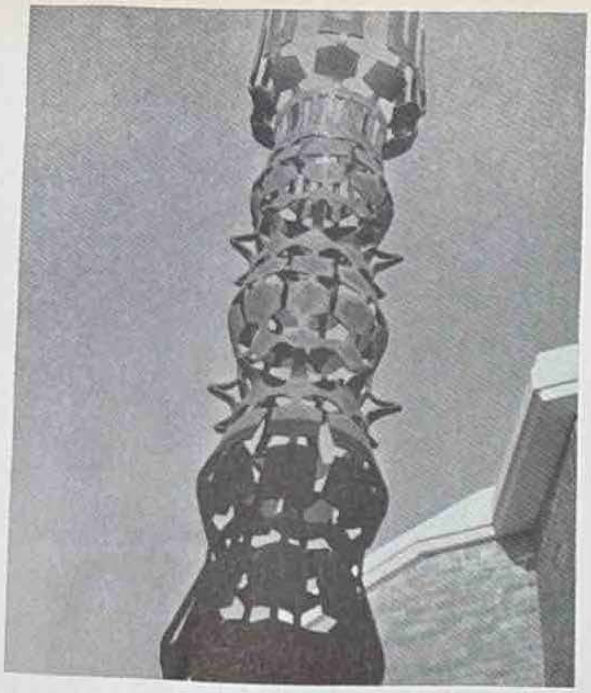
Noel Carawan Osheroff is a potter and painter who lives in Venice, California. The Architect suggested that the woodland character of the site might be enhanced by placing forest animals in inconspicuous locations around the ground, behind a tree, among some bushes, anywhere they might be seen almost by accident, by surprise, as under natural conditions. A bear, a fox on a stump, some racoons, a deer and fawn, an owl in the tree, a falcon, a bas-relief rabbit in its burrow, and two wolves on a wall are among her sensitive creations. These animals became a family project. Mrs. Osheroff was to give birth to her second child shortly after completing the firing and glazing of these stoneclay animals so her husband, Abe Osheroff, a contractor in Venice, took leave to come to Bellingham where he made the entire installation.

The sculpture at the Humanities Building was done by Norman Warsinske. Several bronze castings were mounted on the walls and a major piece, of perforated tubular form in steel, was placed on the podium between the classroom-office building and the auditorium-lecture hall building. Another bronze sculpture which will move in the wind is being made for placement between the Humanities Building and the Old Main to the northeast.

Each artist worked in substantial freedom, keeping in mind the general purpose set by the Architect, that many small works placed in inobvious positions throughout and around the buildings were preferable to one or two major efforts placed conspicuously in the entrance lobby. We feel that the success of this approach is manifest to all who use the buildings.

—Fred Bassetti

Hugh N. Stratford Photos

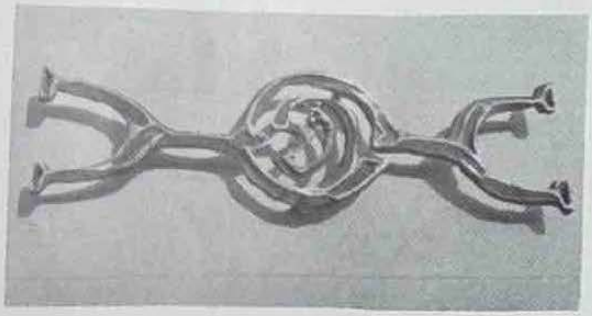


Change of Pace at Western Washington State College

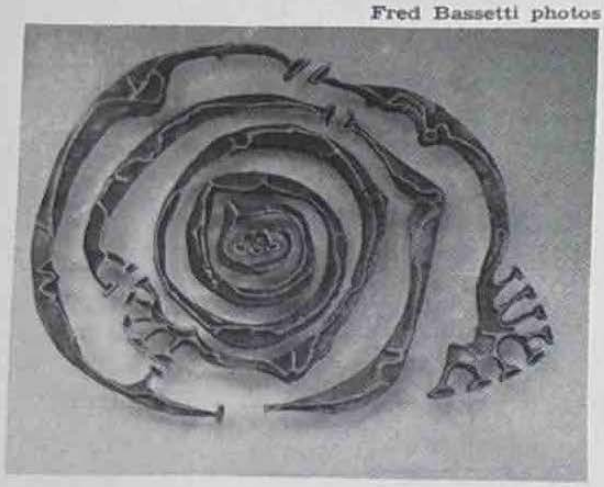
HUMANITIES BUILDING
Western Washington State College
Bellingham, Washington

Bassetti & Morse, architects

Eiford Construction Co., Phase I
H. G. Walker Co., Phase II
general contractors



Fred Bassetti photos



NORMAN WARSINSKE
Bronze Castings

Whimsical "Eyebrows" G

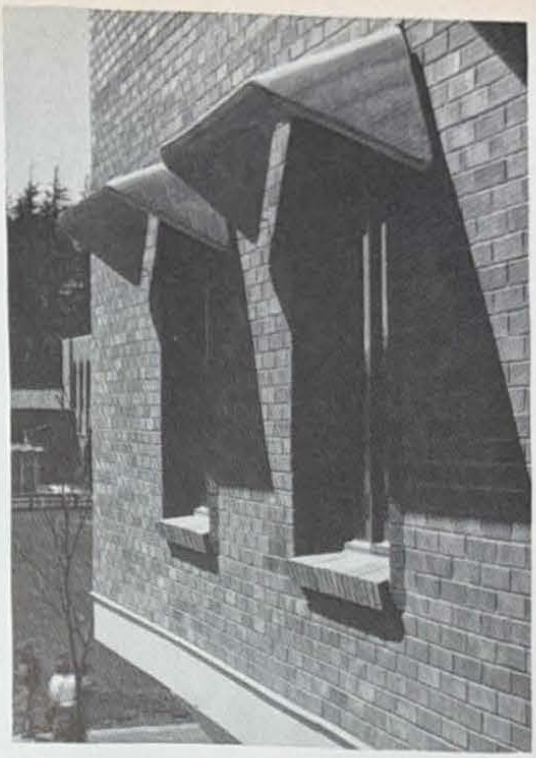
A CORRELATION and yet a change of pace are evident in comparing this classroom building with the dormitories on the preceding pages. The brick veneer has been kept, and the supporting concrete tees repeat the character of the hillside foundations of the dorms. Yet the building is entirely institutional as opposed to the residential atmosphere of the dorms.

It is institutional in appearance principally because of the rectangular shape, the flat roof, the concrete columns; and then this simple squarishness is given a jaunty air by whimsical "eyebrows" over the windows.

The purpose of the eyebrows could have been achieved in many ways. They are to reduce sky glare. They are precast lightweight concrete shapes attached at the top by a flange that replaces a brick in the wall, and held out from the wall at the sides about two inches by spacers that also stiffen the connection.

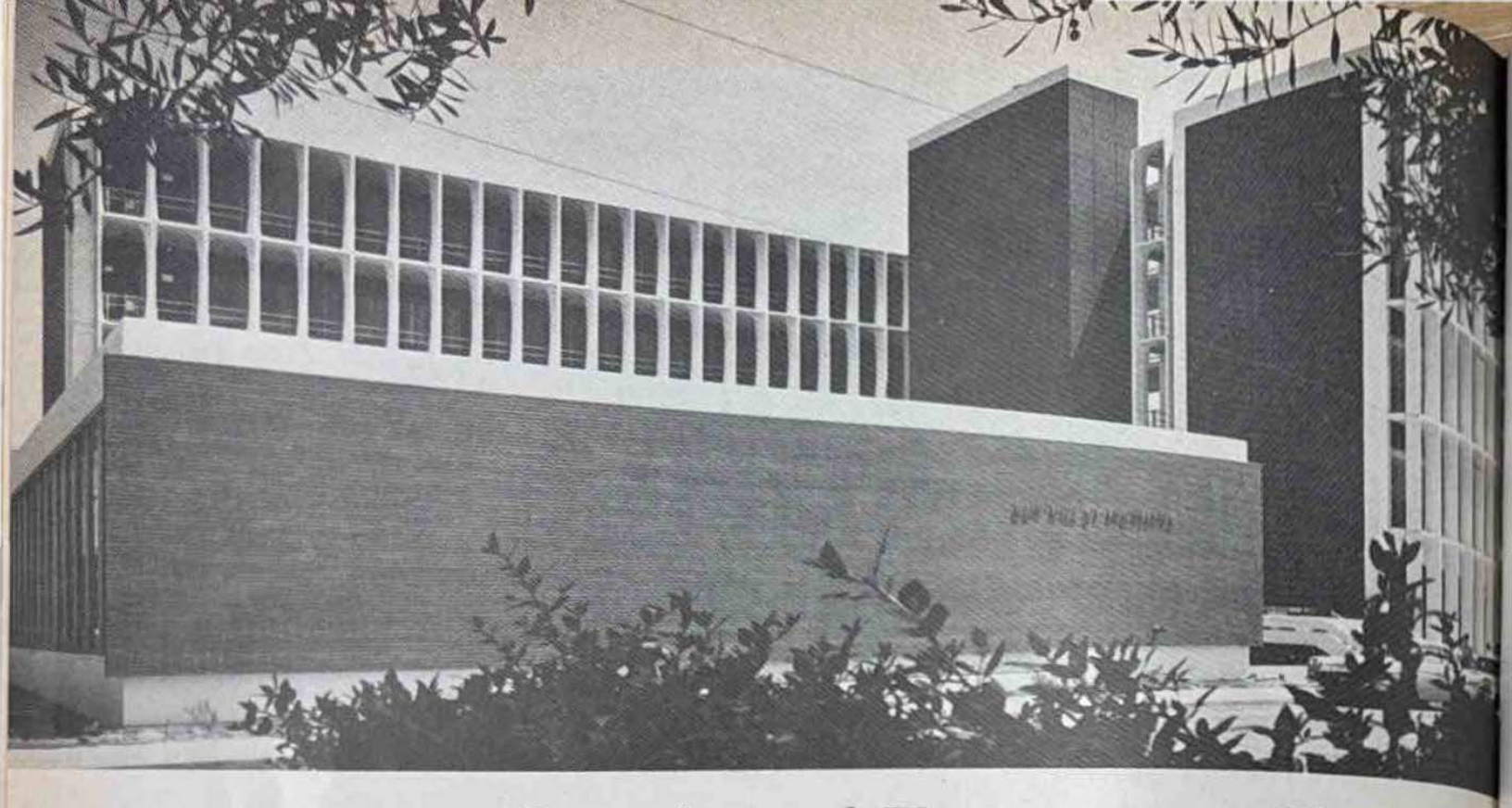
Otherwise the building is conventional construction: Concrete and wood frame with brick veneer; wood frame roof with built up roofing; drywall interiors; concrete and resilient tile floors; 38,000 square feet, $900,000, including piling and furniture.

A touch of art, evident throughout the new campus areas, here includes bronze castings by Norman Warsinske as plaques on interior walls, and a perforated tubular form in steel on an exterior podium.



ain Rectangle a Jaunty Air

Hugh N. Stratford Photos



Yesterday and Tomorrow . . . Three Camp

EXPRESSING the existing architectural vocabulary of a campus in modern concept that unalterably binds the old to the new, three California campus images have been successfully blended in an architectural mix of yesterday and tomorrow.

Olin Hall of Engineering at the University of Southern California utilizes brick and white concrete in keeping with campus tradition. A five building complex, joined at each level by bridges, with open-air corridors along the perimeters of the buildings, it is the first major structure to be completed in USC's new $106 million master plan. A striking decorative pattern of precast exterior louvers on the two taller buildings shades the classrooms from the sun. Two of the five-story buildings contain classrooms, laboratories, administrative offices and a student lounge. There is a central utility and transportation core with elevators and stairwells, and two one-story structures with a library and auditorium.

Emphasizing the "new" look, the University of California at Los Angeles is planning a Memorial Activities Center for their Westwood campus that will feature an auditorium with a specially designed space frame roof structure, an exciting answer to the problem of creating an expansive column-free area within a limited budget.

Situated west of the new Student Union, it will be flanked by two activities buildings, one planned for future construction. The $5 million center, of precast concrete contracted by brick, will blend with the campus.

OLIN HALL of ENGINEERING
University of Southern California

William L. Pereira & Associates
Architects

Brandow & Johnston
Structural Engineers

Myers Brothers
General Contractors

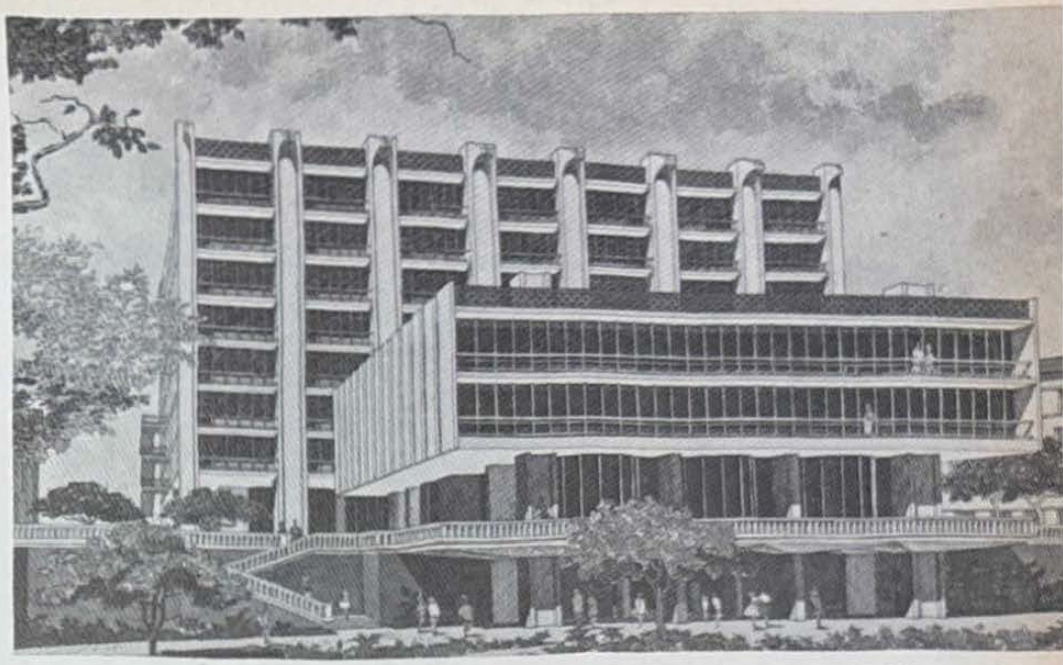
MEMORIAL ACTIVITIES CENTER
University of California at Los Angeles

Welton Becket & Associates
Architects-Engineers

CHEMISTRY COMPLEX
University of California, Berkeley

Anshen & Allen
Architects

Williams & Burrows
General Contractors



Chemistry Unit No. 2 on the Berkeley campus of the University of California will have precast wall panels, 32-ft. high, hanging from roof overhang and supporting overhang floors below. Balconies on upper floors permit emergency escape from laboratories. Glass walls are utilized on the north and south with minimum window areas on east-west exposures. Unit No. 1, Latimer Hall, completed in March, is in background.

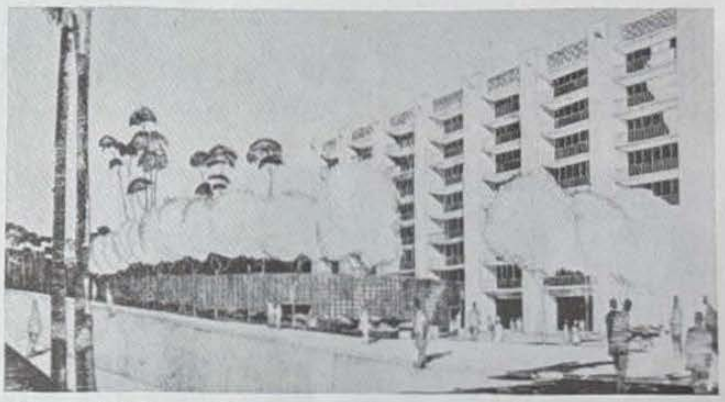
ages Retained

A Victorian cupola, vintage 1890, sturdily graceful, rescued from the "Old Chemistry Building," will serve as a roof over the freight elevator shaft in the new chemistry complex at the University of California, Berkeley. Further harmonizing is accomplished in Chemistry Unit No. 2 with terra cotta screens and panels, similar to those on adjacent Latimer Hall, and the red tile roofs of other nearby buildings.

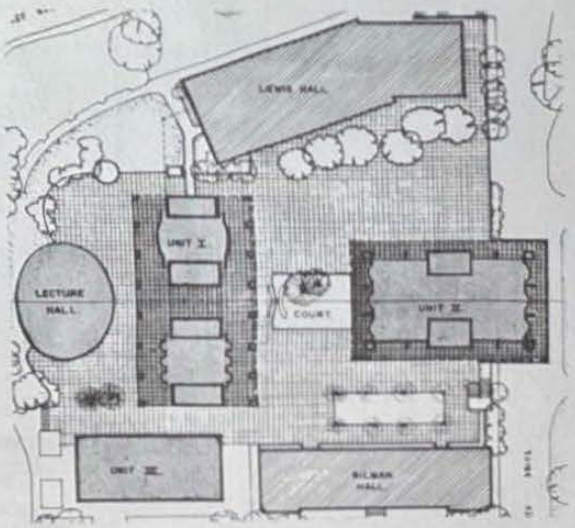
An unusual feature of the new building is its "iceberg" shape, with a major part of the laboratory space in two large floors beneath a broad plaza. Underground passages and entrances will link the new unit to existing Lewis Hall, the new eight-story Latimer Hall (Chemistry Unit No. 1) and Gilman Hall, thus completing a four-building complex.

Adjacent is a 550-seat Physical Sciences Lecture Hall, now under construction. A revolving stage with three demonstration tables, two behind scenes, permit uninterrupted scheduling of the lecture hall.

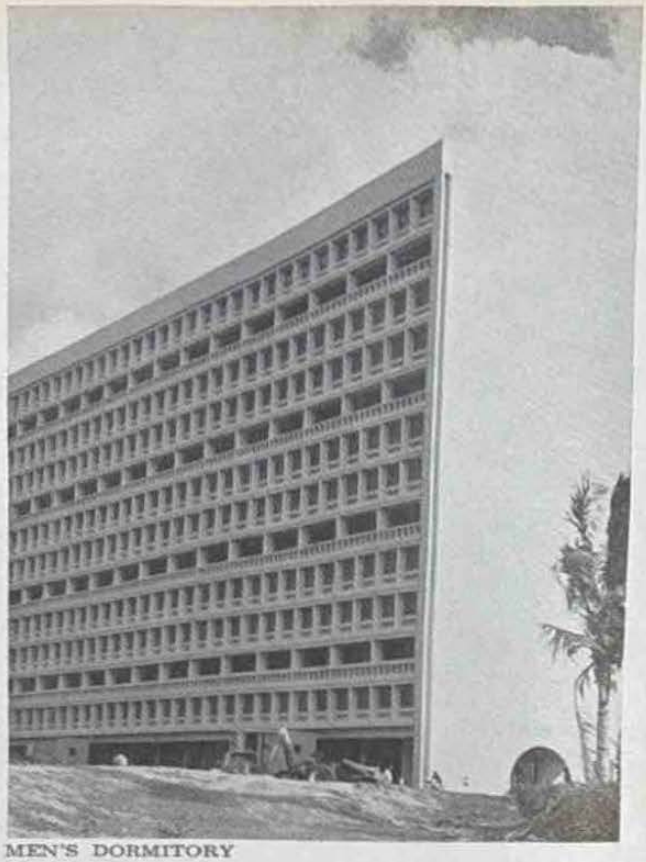
The $4.3 million structure, to be completed in mid-1965, will be largely of reinforced and precast concrete.



Physical Science Lecture Hall, foreground, is under construction. A revolving stage permits uninterrupted scheduling of the hall.



Site plan of the chemistry complex.



MEN'S DORMITORY

East Meets West in Architecture Symbolic of Neither

WOMEN'S DORMITORY

To HOUSE an experiment in Oriental and Western understanding through education, the federal government is establishing this center on the University of Hawaii campus in five buildings that achieve impressive stature with concrete. On these pages are a high rise men's dormitory framed with poured-in-place concrete and sheltered with precast concrete panel curtains. Four of the floors are living rooms (apparent in the pictures as windowless balconies). Floors above and below each living room are windowed bedrooms.

A four-floor women's dormitory is of similar construction, with emphasis on decorative sculptured concrete shear walls. In both buildings the double window panels are precast concrete.

Most interesting building, structurally and in appearance, is the food service and administration building, based on concrete arches that support a plaza, and with the upper floor cantilevered on columns above the plaza. Prestressed, precast concrete girders carry floors and ceilings, are up to 128 feet long and cantilever as much as 24 feet.

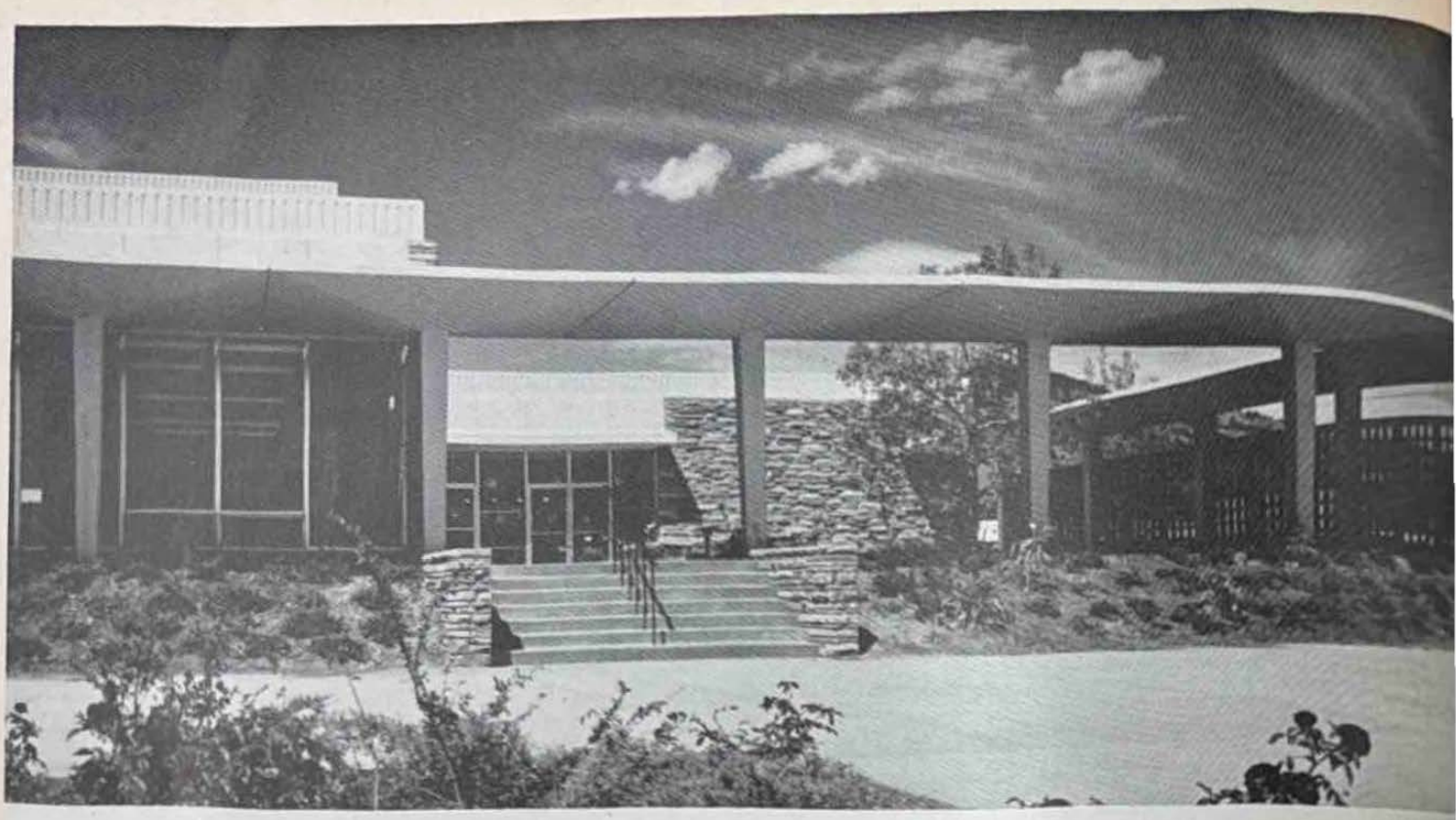
ADMINISTRATION

Bea Howell Photos

EAST-WEST CENTER, Honolulu • McAuliffe, Young & Associates with I. M. Pei Associates, architects

McKee-Nordic, general contractor

AUDITORIUM



20th Century Interpretation of the Athenaeum

BOULDER PUBLIC LIBRARY Boulder, Colorado

James M. Hunter & Associates, architects

Mike Campbell Construction Co., general contractor

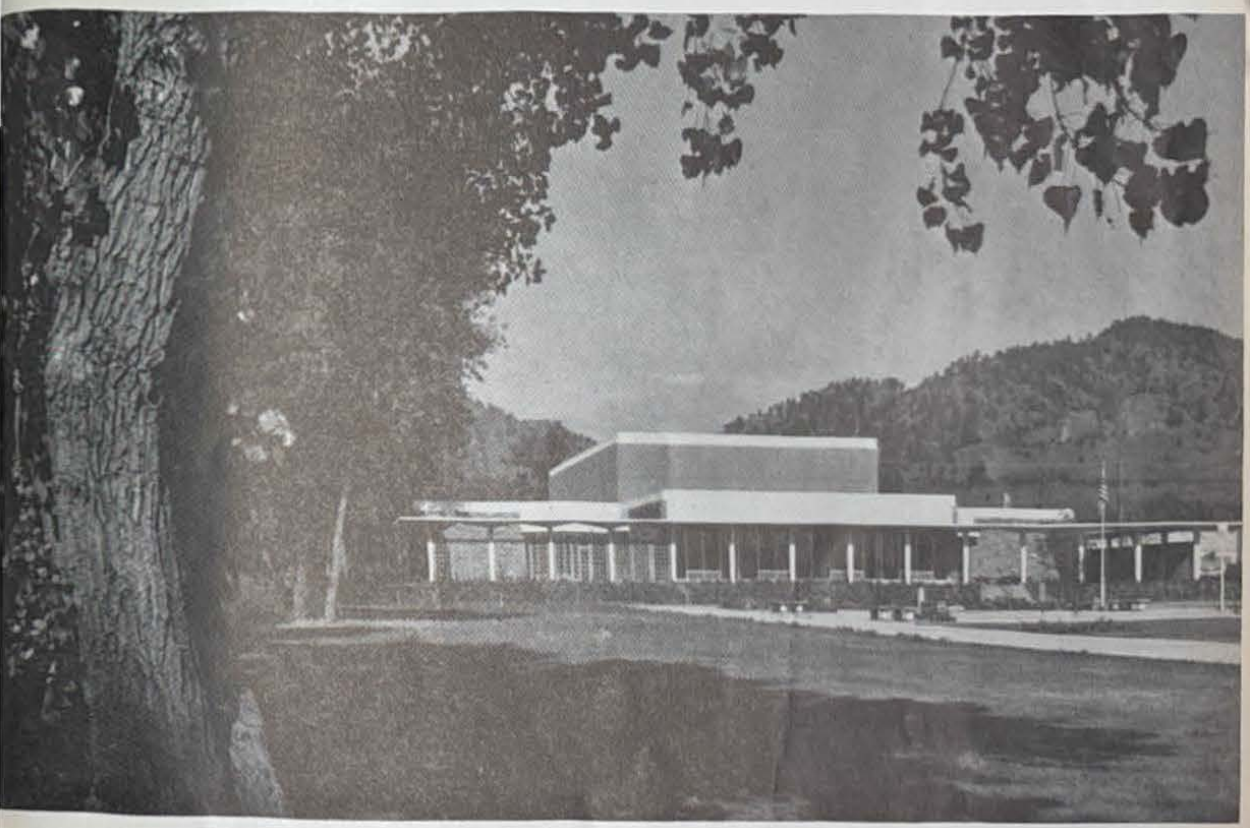
Wayne Wright Photos

SELDOM do public buildings complement their natural setting so well as this 24,000 square foot library nestling in the foreground of rugged Flagstaff Mountain.

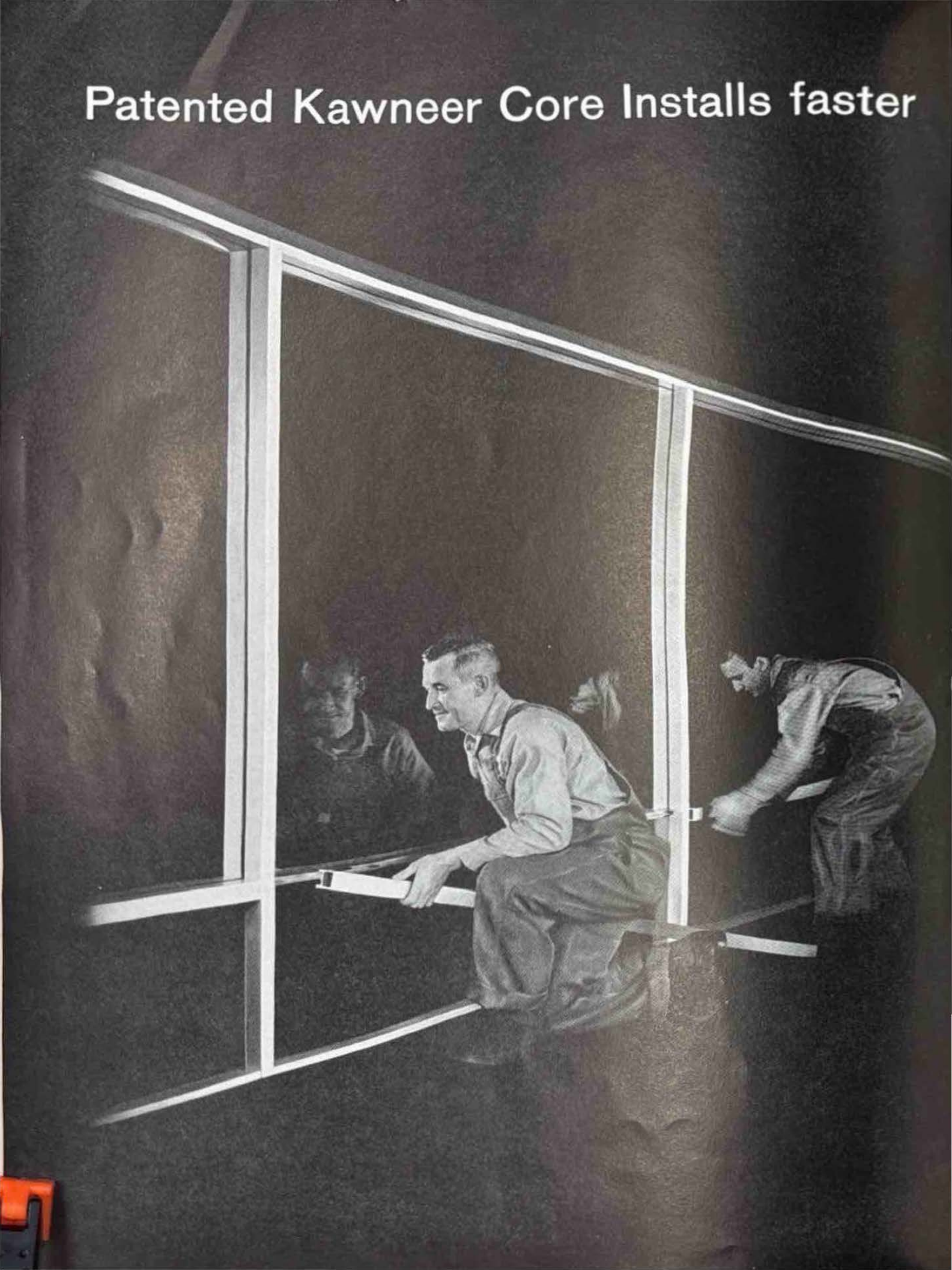
Native "Lyons" stone quarried nearby, is warm beige in color, here combined with concrete shapes in beige and white to add sparkle that matches the high clouds of Colorado.

Basic structure is a series of cast in place concrete "pods," each supported on its own column, with the edges joining each other at the high portion of the mezzanine roof. The pod form defines the space, and the roof is perforated in certain areas between pods to bring skylighting to reading rooms.

The pod is used again for the arcade which encloses two little gardens in front—one a children's garden and the other an entrance court. Great attention was paid throughout to creating atmosphere to spur the imagination, from a novel children's "Winnie-the-Pooh" garden to reading rooms in gay primary colors, equipped with hassocks and sprawling rugs.



Patented Kawneer Core Installs faster



...looks better and costs less than ordinary tube!

Time, labor and materials savings beyond the scope of anything on the market.

Conventional tube is taking a back-seat to patented Kawneer Core, a remarkable innovation in extruded metal systems. A completed Core job not only looks better but erects significantly faster.

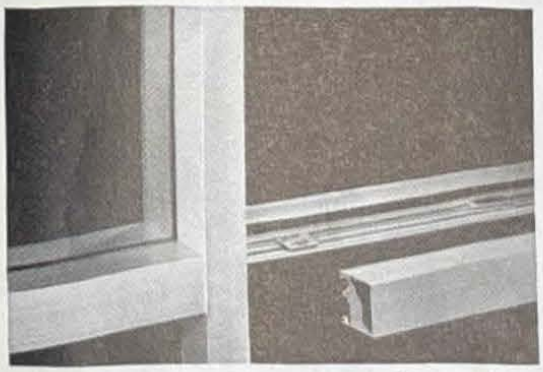
After the glass is set, the mullion (and sash) *snap-locks* to its gutter. *Snap*—it's done! No putting in glass stops with screws. No putty applications. This is one of scores of labor-saving advantages, unique to Core, that result in speedier erection and reduced installed cost.

A few simple adapters integrate other Kawneer exterior components into the Core system. Now, whether the job is new construction or remodeling...1-, 2- or 3-story building . . . it can have a unified wall appearance, true to architectural design, at savings never before possible.

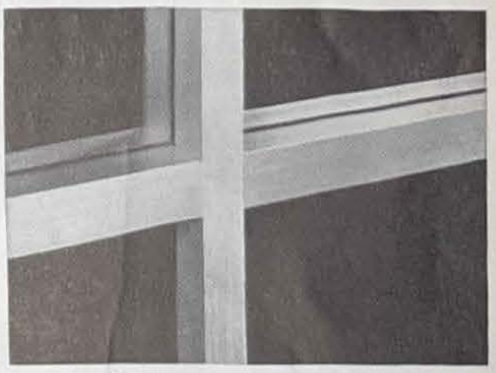
Architects like Patented Kawneer Core

- Design flexibility is built-in. You may combine a wide selection of aluminum mullion grids with glass, panels, windows and fascias in great variety.
- Whether a store front or a multi-story job, your building looks beautiful—architecturally uniform, not a hodge-podge of pieces.
- You can design to a budget because Kawneer Core installed costs are less.
- Detailing is faster because compatible Core members are designed to accommodate all conditions. No special shapes. No complex transitions. No joinery problems.
- Your specifications will *hold* because Core is patented.
- You are assured it will be installed correctly because your Kawneer stocking dealer is factory-trained.

May we suggest you ask your Kawneer representative for helpful and complete details?



Snap-on Glazing saves time, lowers cost! The secret to speedier erection is the patented Core *clip* that *snap-locks* the face member to the gutter.



Cleanliness of design and appearance! Snap-on Glazing, an exclusive of patented Core, eliminates exposed screws and unsightly clutter of stops.

Kawneer

Kawneer Company, A Division of American Metal Climax, Inc.

Niles, Michigan • Richmond, California • Atlanta, Georgia • Kawneer Company Canada Ltd., Toronto, Ontario, Canada

Chunks of Styrofoam sawed to the size of concrete blocks are set against the perimeter form, with holes gouged in them to receive stressing heads. Forming for each head is eliminated. Smaller blocks are placed around column to keep concrete from running under the shear plate.

Two New Methods Make Lift-Slab Easier, Cheaper

TWO TIME-CONSUMING AND EXPENSIVE phases of lift slab construction were eliminated from the 15-story (tallest in the nation) Wilshire-Holmby Apartment job now nearing completion in Los Angeles. Blocks of easy-to-cut Styrofoam were used to eliminate intricate form work at the stressing heads in the knit sections of the slabs, and smaller blocks were placed around the bases of the columns to keep concrete from running underneath the shear plates during the pour.

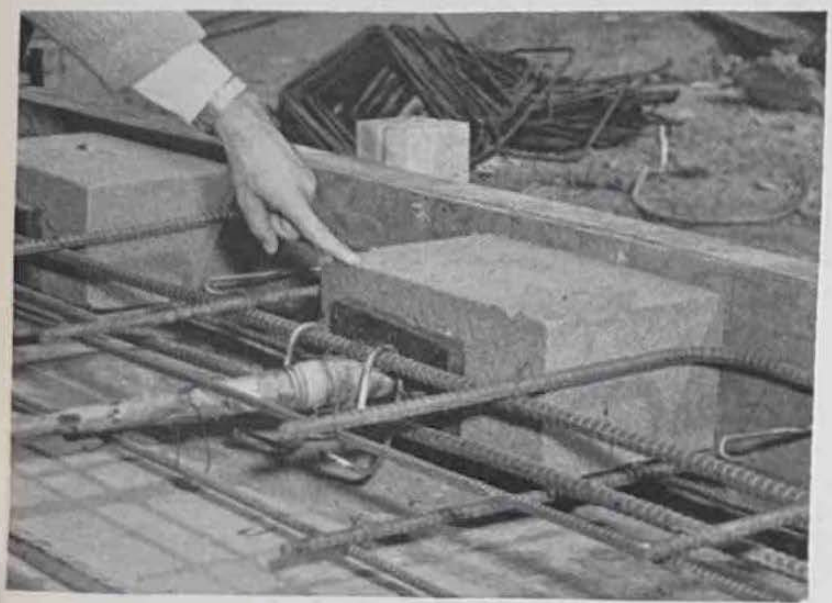
The contractor, Taylor Construction Co. (builder of the Fontainbleu and the Riviera), estimated $10,000 savings in the knit sections, and 2,400 man-hour savings in the later innovation.

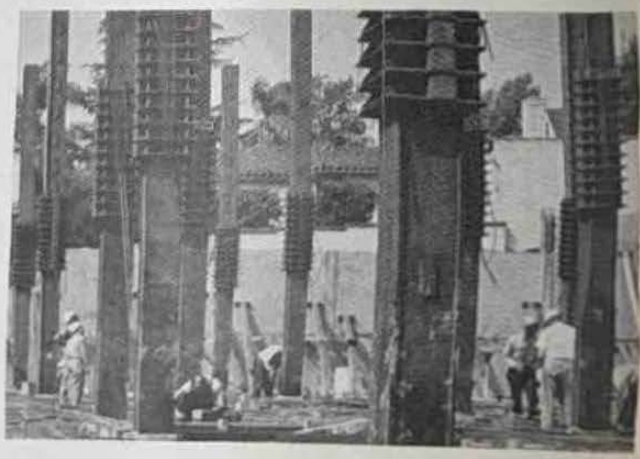
In addition, the slabs have better appearance, since the method also eliminated the need for patching the notches normally left by the forms at the stressing heads. Around the shear plates, concrete is firmer and sharper than is possible with the usual cork spacers.

In other respects this is a typical ICS-Vagtborg operation using the Yountz-Slick method, saving an estimated two months and $300,000 over poured-in-place methods. The fifteen floors are divided into two 28-column lifts; with 28 jacks operating, the capacity 2,000 tons.

Architects are Pollock and Drazen; Fuller-Tranbarger is the structural engineering firm.

Below, stressing head and Prescon tendon in place in the foam block. After pour, Styrofoam is easily dug away with a shovel. Slab face is continuous above and below the block. Lower right, a few columns, with shear plates held ready to drop down one at a time for the pour.



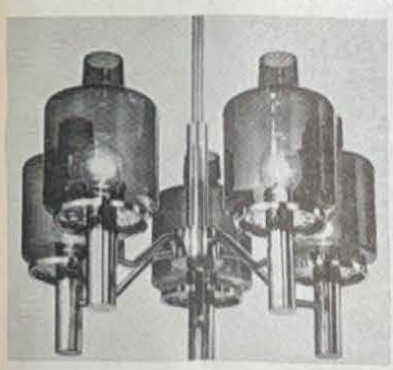


harder than hardwood

Beauty, durability and low cost are combined in the new Forrest Wood Strip Flooring said to be harder than hardwood but easily installed with savings up to 40% compared to other conventional floors. Factory filled and sealed, it is ready for waxing or top coating without sanding. It is guaranteed not to split, splinter or check and won't dent even under women's spike heels. Strips are 3½" thick and 8' long, with tongue and groove edges. Manufactured from graded wood particles bonded together with synthetic resins, it is available in natural Autumn Oak or Kashmir Walnut.—Forrest Industries, Inc. (A/W), Dillard, Oregon.

metallic aluminum

Brilliant metallic colors of Dynasyl Color Proof aluminum sheets are especially applicable in sign facings, backgrounds, building panels, interior decorative effects. Offered in 3x8-ft. sheets in three textures and six metallic colors, Dynasyl can be sheared, drilled and formed without cracking or crazing the surface.—W. J. Ruscoe Co. (A/W), Laminating Div., 487 Kenmore Blvd., Akron 1, Ohio.

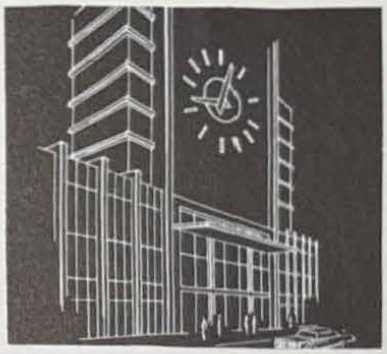


shades of a bygone era

Romance of another day is portrayed in the simulated gaslight fixtures that are part of the new Chandeline Signature collection. Vivid brassware and colorful handblown glass are contained in a contemporary design adaptable to any room.—Prescolite Mfg. Corp. (A/W), 1251 Doolittle Drive, San Leandro, Calif.

for door warp problems

Specifically designed and developed to solve the problems of seasonal door warp, binding misalignment from heat, cold, humidity, building expansion and contraction, the new Seal-Draft Adjust-a-matic weatherstrip provides expansion of the weatherstrip sealer (up to 5/16-in.) whenever doors warp outward. Inner case is spring actuated to automatically move sealer to door when fastening screws are lightly loosened and retightened when proper contact is made with door. Weather seal is 100% wool pile, silicone treated against moisture. Architects can now specify Adjust-a-matic weatherstrip on mill orders. — Seal-Draft Division, Sun Screen Products, Inc. (A/W), N. 2220 Division St., Spokane, Wash.



weatherproof clocks

A new line of weatherproof clocks in a wide variety of sizes and face styles has been designed to bring interior quality and appearance outdoors. They are constructed to withstand excessive snow and wind and still keep accurate time under all climatic conditions. Dial diameters up to 48-in. are available either as manual reset or remote reset control. Clocks of 60-in. or more diameter are all remote reset. There are three face styles available—Arabic numerals, bars, dots, or combinations in black-finished aluminum. Other finishes and diameters up to 24-ft. are available on special order.—Howard Miller Clock Co. (A/W), Zeeland, Mich.

Japanese-inspired ceilings

Samara, new decorator ceiling tile, reflects the fascinating patterns of Japan's rice-paper, achieving a subtle harmony of gold and copper lines of varying lengths and widths in an interesting non-uniform pattern. The line emphasizes the role ceilings are playing in coordinating harmony of interiors in the important decorating scheme.—Certain-teed Products Corp. (A/W), 120 E. Lancaster St., Ardmore, Pennsylvania.

giant bricks

Keying what appears to be a major break-through for brick products in the construction industry, Giant Brick combines a pleasing appearance with economy. It lowers the cost of clay masonry because of the size, provides a maintenance-free exterior since the natural burned-in color assures long-life without painting, and the finished surface on both sides is a distinct saving where additional insulation is not required on interior walls. The new brick measures nominal 8x4x16-in. Giant Brick is particularly suited to school construction where economy is always a factor, but is equally recommended for any type construction where long-life, inexpensive exterior walls are desirable. Available in three colors; autumn leaf, golden buff and western buff.—Clayburn-Harbison, (A/W), 550 Mercer, Seattle.

redwood glulam beams

The Noyolam Beam is the first redwood glulam available to the industry. The laminated structural member is available in sizes from 3x4-ft. to 11x-16-ft. and in lengths to 40-ft. The kiln-dried Noyolam features up to 20 laminates in a single beam, each one inch or thicker. A waterproof exterior adhesive has been applied allowing interior to exterior spans of the same beam.—Union Lumber Co. (A/W), 620 Market St., San Francisco.

shower package

Applicable to institutional, industrial, residential and commercial installations, The Showermaster unit has three double-wall insulated panels and corners, flush-line entrance panels, stainless steel and terrazzo receptor with built-in, watertight drain. Finishes are in either Porcena, a glass-hard vitreous porcelain enamel or steel, or acrylic enamel baked on galvanized-bonderized steel. Complete with curtain rod and curtain or an optional door unit.—Sanymetal Products Co. (A/W), 1705 Urbana Rd., Cleveland, Ohio.

LITERATURE

Non-Residential Steel Windows (AIA 16-E): design data and specifications on non-residential steel windows, subframes, operators and insect screens are covered in this comprehensive 36-page catalog. Sections, elevations, glass-size tables, handling diagrams are provided for heavy-intermediate, heavy-intermediate awning, intermediate, classroom, industrial, security and utility windows. Installation details are shown.—Ceco Steel Products Corp., 6501 West 26th St., Chicago 50.

Troweled Marble: details uses and application of marble aggregate surfacing, pre-mixed and easily applied. Versatility, economy, repairability, light weight and test results are included in 6-p., colorful folder.—Granolux Division, Cement Enamel Development, Inc., 18656 Fitzpatrick, Detroit 28.

The Carmel Collection: presents a major group of furniture for contract use including conference chairs, conference tables, reception area seating units and tables plus a coordinated selection of chairs, tables and case goods for residential use. Well illustrated and indexed, good use of color. 80-pp.—Dux, Inc., 1633 Adrian Road, Burlingame, Calif.

Mammoth Tile: shows how large 6"x 12" Mammoth Tile of Franciscan Hermosa line, minimizes grout lines, can be used for kitchen countertops, and the versatility of the six mottled textured glaze shades. Installation instructions and complete range of trim shapes are included in full color, 4-pp. Building Products Dept., Interpace, 2901 Los Feliz Blvd., Los Angeles 39.

Floor Air-Distribution Systems: schematically illustrates components of Mahonaire floors and describes flexibility and economy characteristics engineered into combination of structural floor and air-distribution system. The Mahonaire method of conditioned air handling is recommended for multi-story office buildings, schools and similar construction. 4-pp. Catalog AF-63.—The R. C. Mahon Co., 6565 East 8-Mile Rd., Detroit 34.

Elastomeric Roofing Systems: complete information on materials specifications and applications instructions for both liquid system and sheet system elastomeric roofing for modern free-form roof structures. Details lightness of weight of the Gacoflex system, adaptability, weather-ability, chemical and flame resistance. Data on Gacoflex flashing and membraning included. Catalog GR-63.—Gates Engineering Co. Wilmington, Del.

Engineered Compounds for Concrete Masonry: easy-to-read data charts showing properties, applications, advantages and coverage for concrete admixtures, quick-sets, sealants and surface treatments. Quick reference guide covers proportions, limitations and alternate uses of materials, with tables showing products for new construction and maintenance repair work. 12-pp., 2-colors.—Sika Chemical Corp., 35 Gregory Ave., Passaic, New Jersey.

Versa-Tex (AIA 17-A): patterns for solar screens, wall facings, floor and deck panels and stair treads are well illustrated. Many uses of the textured aggregate finish panels for interiors and exteriors are detailed. Sizes available, erection instructions and actual full-color photos of applications included. 8-pp.—B. J. Lutz Co., 2500 Strong, Kansas City, Kansas.

• **Burke Rubber Co.:** A $350,000 plant expansion for the San Jose firm, adjacent to present manufacturing facilities, is located at 555 Burke Street. The new building, housing accounting offices, purchasing department and customer service departments, was necessitated because of sales growth which has increased personnel, according to Halsey C. Burke, president.

• **The Roberts Co.:** The diversified Los Angeles-based manufacturing firm has changed its name to Roberts Consolidated Industries, Inc., to better reflect the nature of the company's expanding operations in the City of Industry, Dayton, Ohio and abroad in England, Holland, Australia, New Zealand and Canada.

• **U. S. Steel Corp.:** Charles L. McDevitt has been appointed district sales manager, Columbia-Geneva Division, with headquarters at Portland, according to an announcement by R. W. Seely, vice president of sales, San Francisco.

• **The Philip Carey Manufacturing Co.:** Charles J. Bainum, a veteran of 22 years with Carey, has been named Western Division Vice President for Sales with offices in San Francisco from where he will supervise the California and Seattle districts.

• **E. A. Nord Co.:** The Everett, Washington, manufacturers of wood doors, are planning a $2.5 million expansion program, adjacent to their present plant. Eric Nord, president and general manager, announced plans for construction of an 85,000 sq. ft. plant addition, a dry kiln expansion, planing and cutting mills.

• **Kaiser Gypsum Co.:** Raymond Fournival has been named manager of advertising and public relations according to an announcement by James J. Hague, vice president of sales of the Oakland based firm.

• **Crane Co.:** The 108-year old plumbing-ware firm has opened a new showroom for its plumbing, heating and air-conditioning products at 5850 Wilshire Blvd., Los Angeles. Crane's West Coast district office, located in the same building, is supervised by L. C. Blankemeier, district manager.

• **Tropicraft/Woodard/Murals, Inc.:** The showroom merger of three of the leading suppliers of custom interior appointments for home, office and industry was recently announced at the Jackson Square Design Center, 533 Pacific Ave., San Francisco. Joining forces are Tropicraft of San Francisco who handle handloomed and stock design woven wood fabrics; Lee Woodard & Sons, commercial, contract and patio furniture; and Murals, Inc., hand-printed wall coverings and customized architectural facings for interiors and exteriors.

• **Bethlehem Steel Co.:** John G. White, general sales manager, San Francisco, announces the formation of a single Bethlehem sales district encompassing Washington, Oregon, Idaho, Alaska and western Montana. This is a merger of the Seattle-Portland districts. James L. Humphrey will be sales manager of the new Seattle-Portland district, with offices in Seattle. The Portland office will be continued with James E. Gustafson in charge, as will the Spokane office under M. P. Shrauger.

• **Soule Steel Co.:** Donald Watson has been appointed sales manager, Northern dealer sales, for the Steel Structures Division. He will direct activities of the central district and function in a staff capacity for San Francisco and Seattle districts. James Bedford has been promoted to position of Southwest regional sales manager for the Architectural Products Division with headquarters at 6200 Wilmington, Los Angeles.

• **Welsh Panel Co.:** Richard A. Setter has been elected president of the Longview, Washington, prefinished panel manufacturing firm, succeeding Thomas J. Welsh, who has become chairman of the board.

• **Agalite-Bronson Co.:** The Air-Lite Metal Products Division has moved to new and larger quarters at 2240 Colfax Ave., North Sacramento, doubling the size of the company's former facilities, according to Ralph T. Casebolt, president. Don H. Robinson is general manager of this division. The company manufactures a complete line of aluminum sliding glass doors, including shower doors and enclosures, and a new pressed stone shower floor.

• **Timber Structures, Inc.:** Phillip J. Sedlacek has been named manager of the Seattle district office in the Hoge Bldg.

Steelcase to combine Los Angeles, Fullerton operations in new La Mirada plant

LOCATED on a 10-acre site at La Mirada, the new Steelcase, Inc., California plant will bring the Los Angeles and Fullerton operations under one roof.

The two-unit structure, designed by Albert C. Martin & Associates, Los Angeles, will house manufacturing, warehousing and administration facilities, as well as a showroom display area, in 159,000 sq. ft. of space. The $1.5 million building is expected to be ready for occupancy about December 15.

Steelcase, Inc., are manufacturers of steel office furniture and data processing auxiliary equipment. E. H. Hunting is president of the West Coast subsidiary.

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CAN THE LUMBER INDUSTRY regain the school construction market that it lost in the 1950s? We have just finished reading a lengthy series of articles written by John Guernsey in the Portland Oregonian, and he did not find an answer. He left it at just about a standoff. In the process he studied some points that might bear review.

On the West Coast—even in the Oregon, Washington and Northern California logging country—the lumber industry lost the school construction market to indifference. It sold its lumber to the south and the east and to the home building boom. Now that the boom has tuned down to a bang, there has been the dismaying discovery that many school architects and officials have become more than pleased with the concrete blocks and tilt-up panels, precast roofs, concrete floor slabs with asphalt tile, laminated plastic products such as Formica, that they substituted for wood.

So here's what the lumber industry faces: A predominantly wood-product school will have the lowest initial cost. Then in order come block, poured concrete with wood framing, wood framing with brick veneer, and finally a maximum fireproof building of brick, concrete and steel with little or no wood in the structure.

But—over a 30-year life span, the initial-plus-operating total cost positions will be equalled out or even reversed by the factors of insurance rates and maintenance costs.

If the costs become about the same, then what do you have to sell? Appearance, aesthetic appeal, warmth, integrity? Delivery, local economics, a stable pricing pattern? If the lumber industry ever solves its strike and price fluctuation problems, it will come knocking more earnestly on every school architect's door.

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and where you will find their message

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A/W

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U. S. Courthouse and Federal Office Building, San Francisco, California. Architects and Engineers: Blanchard & Maher; Albert F. Roller; Stone Marraccini & Patterson; John Carl Warnecke. Contractors: (Joint Venturers) Roscoe-Ajax Construction Company, Inc., and Knickerbocker Construction Corporation.

25

TWENTY-FIVE HAUGHTON AUTOMATIC ELEVATO

will be installed in the new U. S. Courthouse and Federal Office Building now reshaping San cisco's skyline. They will provide service keyed to the age of automation at every moment d night for the life of the building. An incredible electronic computer system developed by Ha Elevonics* will constantly analyze the amount and character of traffic and automatically contr car to meet traffic needs exactly. Haughton Automatic Elevators are available to meet every ment of speed and load in handling passengers and freight. All are backed by years of desi manufacturing experience, imaginative research and complete maintenance capabilities. Conta Haughton sales office (listed in the Yellow Pages) for full information. Or write: Haughton Company, Division of Toledo Scale Corporation, Toledo 9, Ohio. Passenger and Freight El Escalators, Dumbwaiters.

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THE COVER: Office-Library, Hunt Foods, Fullerton, Calif., William L. Pereira & Associates. Julius Shulman photo. Page 26.

ABOUT THIS ISSUE: We're not sure whether Santa Claus has yet fully succeeded thoughts of church during the month of December, but we prefer to put the emphasis where it belongs, and so in each December issue we try to offer some provocative thoughts on church architecture. Here we are particularly fortunate to have two by Paul Thiry, FAIA, one in a strange thin-shell concrete shape, like cupped hands, and another of traditional Byzantine dimensions but utilizing modern methods and materials—pages 19 and 22. Plus a short history of Byzantine architecture wherein we play a dirty trick on those vitally interested in the subject (we've used a deal of tiny 6-point type) who will have to reach for the bifocals, but there just wasn't space for the bigger type.

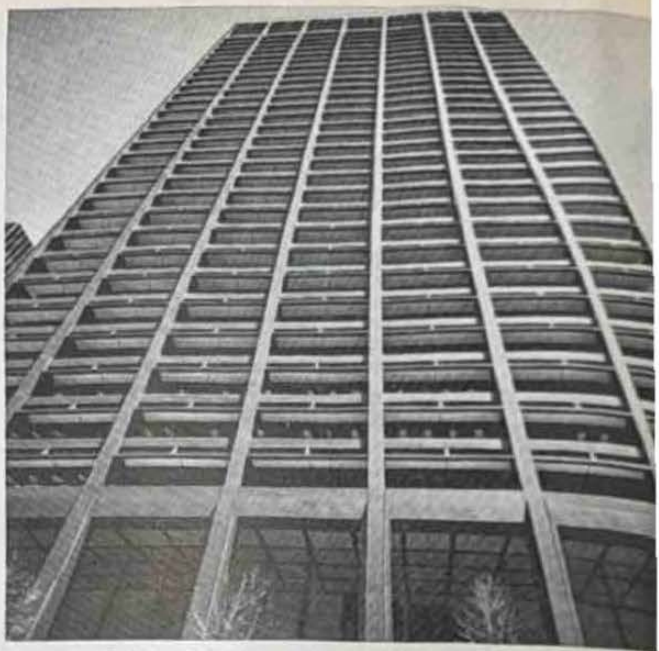
The Product in Action yarn this month is a type of sun and glare control screen we haven't seen before, and it's all the more unusual because it presents its most effective architectural impact at night! Page 31.

A two-point hyperbolic paraboloid ski hut roof that withstood an explosion that blew out all of the side walls, is described on page 30.

A branch bank with the appeal of a residence (page 25), the new Hunt Foods office building (page 26) and the oft-mentioned Daphne residence which floats above the ground on inset foundations in Hillsborough, Calif., (page 28), round out the balanced feature menu of this holiday issue.

Our best wishes for a pleasant Christmas and a fruitful New Year.

International Building: San Francisco, California. Architect-Engineer: Anshen and Allen. General Contractor: Dinwiddie Construction Company. Windows: Kawneer Sealair Windows.



Tennessee Building: Houston, Texas. Architect-Engineer: Skidmore, O and Merrill, San Francisco. General Contractor: W. S. Bellows Constr Corporation, Houston. Curtain Wall System: Custom cladding with integ aluminum sunshade and entire exterior in anodic hard-color aluminum.

Eastern Airlines Building: Charlotte, North Carolina. Architect: J. N. P Company, Inc. Curtain Wall System: Standard Kawneer Zipperwall C System combining aluminum and neoprene gasket design. Dealer: Glass and Paint Company.

Park Central Shopping Center: Phoenix, Arizona. Architect: Welton Becket and Associates, Los Angeles, California. Store Front: Kawneer Narrow Stile 190 entrance package. Dealer: Southwestern Glass and Millwork Co.

Police Academy Building: Philadelphia, Pennsylvania. Architect: Geddes, Brecher, Qualls and Cunningham. General Contractor: Construction Company Ltd. Custom Curtain Wall: Schokbeton pre-ca

At right, James White Memorial Civic Auditorium and Coliseu ville, Tennessee. Architect: Painter, Weeks, McCarty—M Sweetser. Curtain Wall System: Kawneer 3000 Series plus neer Doors. Kawneer Dealer: Standard Glass and Supply C

SCOPE

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Whatever you're planning . . . skyscraper, school or office building . . . contact Kawneer at Niles, Michigan. Let us show you how we can assist you.

*Registered trademark of the patented process for producing high strength pre-cast shocked concrete.

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Highlights & Sidelights

"ACTIVE RETIREMENT" A BILLION DOLLAR INDUSTRY—California's "active retirement" industry is growing at such a rate that more than 300 major facilities now exist or are being developed for dynamic living on the part of active Senior Citizens, according to a survey just completed by International Data Corporation. Facilities in existence or scheduled for ground-breaking yet this year represent an investment of well over $1 billion. There are 84 major communities for retirement having independent living facilities and built around common centers where recreational and social activities are shared; 29 offer apartment dwelling with community-shared workshops and meeting rooms; 50 are major mobile home communities, and 58 offer large-scale lodging with board. There are 43 major hotels that have been converted exclusively for Senior Citizens, permitting them to live in metropolitan areas. Home sale prices in retirement communities are held to a tight range of $12,000 to $16,000, with little opportunity for ostentation because of the stringent rules against adding-on or over-landscaping, all of which adds up to the success of the retirement cities.

MT. RAINIER HOTEL NOT FEASIBLE—An idea for a 100-room hotel at Mt. Rainier National Park is not sound, according to the San Francisco firm of Harris, Kerr, Forster & Co., who have made a year-long feasibility study, financed jointly by the state and federal governments. The firm pointed out that the hotel would gross no more than $250,000 in the 90-day season, providing virtually no income to amortize the cost. They urged, instead, the development of day-use facilities to promote tourism.

ZONING DISPUTE—Opposition is developing to the San Francisco Planning Department's report which urges a wholesale revision of small apartment house construction regulations. The Department wants to cut in half the number of apartments that could be built on all land which is now zoned R-3. Required would be 800 sq. ft. of lot space for each apartment as opposed to the present 400. One builder pointed out that this would mean that only five apartments would be permitted on a 100x40-ft. lot where 10 can now be erected. The change, on the basis of 1962 building permits, would affect more than 90% of all new apartment houses constructed in San Francisco. The Planning Department contends that the change would make San Francisco's tax base more secure and provide better safeguards to neighborhoods with improved controls helping prevent spread of slums. The report is the climax of two years of study and would involve the first major revision in the 1960 City Planning Code. In addition to doubling the density provision, the new proposal would also require 200 sq. ft. of usable open yard space, deck or balcony for each unit, and prohibit parking in the rear.

STANDARDS FOR LANDSCAPE ARCHITECTS—The Phoenix, Arizona, chapter of the Construction Specifications Institute, has taken the initial step among the 51 chapters in the United States in appointing a committee to draw up specifications standards for landscape architects. F. J. McDonald, ALCA, CSI, a landscape contractor, will chairman the committee, whose findings will be reported through the CSI national headquarters in Washington, D. C.

WORLD'S LARGEST COMMUNITY APARTMENT HOTEL—Scale model of Ilikai, 27-story, 1014-unit Hawaiian structure, scheduled for completion in January 1964, will be the largest community apartment-hotel in the world. Designed by John Graham & Company, architects and engineers of Seattle and New York, the $23 million "Y"-shaped complex is located on Waikiki Beach.

CAMPUS PLANNER APPOINTED—Naphtali H. Knox has been appointed by the University of California as staff community planner for all eight campuses, a new position created because of mounting problems of urbanization, college officials said. Knox will be responsible for the development of techniques and procedures for making the best use of university land as well as studying the environment of campuses and local communities. He was previously a planner for Philadelphia and is presently with the San Francisco consulting firm, Livingston and Blayney.

NEW HOMES VS. FORECLOSURES—Mortgage bankers, meeting in San Francisco, heard James C. Downs, Jr., head of the Real Estate Research Corp., contend that California home builders are now constructing one-third of all new homes being built this year in the United States. The ready availability of mortgage money today has contributed greatly to the construction. However, a sharp warning to guard against an avalance of foreclosures, was given by Robert C. Weaver, administrator of the Federal Housing and Home Finance Agency. Foreclosures have risen sharply due principally to curtailment of personal income, and while he cautioned that the trend is not high now, it must be closely watched.

ULTRAMODERN BUS TERMINAL—Metropolitan Transit Authority Board members have approved arrangements for MTA facilities in a downtown Los Angeles terminal. Serving both Greyhound and MTA, the building will occupy almost all of the block bounded by Sixth, Seventh and Los Angeles Streets and Maple Avenue. Western Greyhound Lines will build the multi-million dollar facility and lease to MTA. Welton Becket & Associates, architects and engineers, designed the terminal with departure and arrival concourses below ground level for MTA, a pedestrian concourse at ground level, and Greyhound facilities at top level. Automatic conveyors will carry passengers, baggage and express between levels. The passenger concourse will center around a two-story high main waiting area with space for concessions.

"BONUS" LAW EXTENDED—Congress has approved legislation to extend for another two years the "bonus" offered to states that will limit billboards on interstate highways. Under the bill some 30 states will be given another chance to take advantage of the offer made by the federal government to boost its share of interstate highway construction costs by 1% in states which prohibit signs and billboards within 660 feet of the right-of-way of interstate roads. Since the bonus provision was enacted in 1958 only 20 states have enacted laws to qualify for the payments.

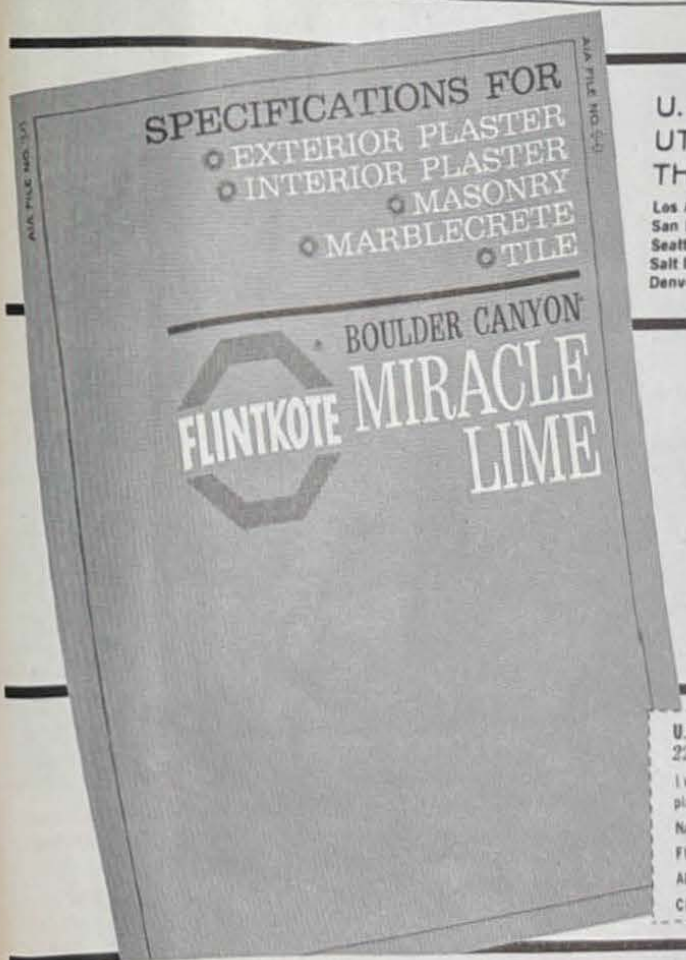
BOARD OF BUILDING APPEALS—A five member Board of Building Appeals has been named by the Cypress, California, city council, to help settle disputes between the city building department, architects and home builders.

DECORATIVE WALL COMPETITION—Plans for an invitational competition for the design of the sculptured decorative wall at Red Rock Hill on Diamond Heights has been submitted to the Board of Supervisors of the San Francisco Redevelopment Agency for approval. The wall will be located at the entrance to the Diamond Heights Redevelopment Project at Clipper Street and Portola Drive. Costs of the competition and construction of the wall will be borne by the developers of the Red Rock Hill town house and the high rise apartment project. After construction, the wall will become the property of the city. The San Francisco Redevelopers, Inc., builders of Red Rock Hill, has offered to donate $40,000 for the competition and construction. Norman R. Smith, vice president, said that Red Rock will be a new addition to the San Francisco skyline and will be greatly enhanced by a sculptured entrance.

CHANGE IN NAME—The California Division of Architecture, Department of Public Works, on October 1, was incorporated into the new Department of General Services and its title changed to Office of Architecture and Construction. The 56-year-old architectural unit was a part of the Department of Public Works 42 years.

REMODELING GAINING ON NEW CONSTRUCTION—A prediction that Americans may soon be spending more for remodeling than for new home construction has been made by Donald Jaenicke, advertising and sales promotion manager of Douglas Fir Plywood Association, and a director of the National Home Improvement Council, a nation-wide organization devoted to remodeling. Just 10 years ago U.S. families were spending one dollar on remodeling for every $10 spent on new construction. Home improvements have gained rapidly in the past decade and statistics now show that $8 is spent on remodeling for every $10 in new work. Currently nearly 45% of the home builders in the NAHB membership are involved in remodeling. Some 40% of residential remodeling is do-it-yourself, the other 60% represents a builder market. Room additions are one of the fastest growing areas of home improvements with a growing number of requests for new family rooms, bedrooms or combination bedroom-baths next in line.

CONSULTING THE CALENDAR—White House **Conference on Community Development,** Sheraton Park Hotel, Washington, D.C., Dec. 9-10 . . . **National Limestone Institute** 19th annual convention, Statler Hilton Hotel, Washington, D.C., 20-22 . . . **1964 Educational Conference and Seminar,** Ceramic Tile Institute, Ambassador Hotel, Los Angeles, Jan. 30-Feb. 1.



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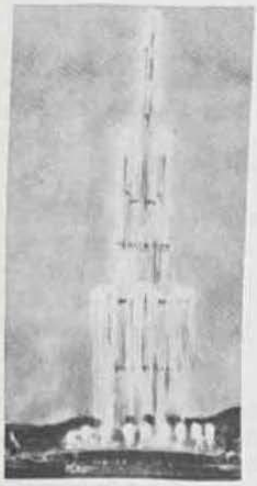
World's Fair . . . 1967-68

Long Beach, California



DEDICATED TO "The Dignity of Man", the California World's Fair is already off to an exciting, imaginative beginning. Long Beach, California, host to the 1967-68 international exposition, is formulating plans for the anticipated 40 million visitors during the two-year period.

Though underway, like all large scale programs, things are not as rosy as they might be in Long Beach. The World's Fair Commission has been tangled in law suits, employee problems and financing.

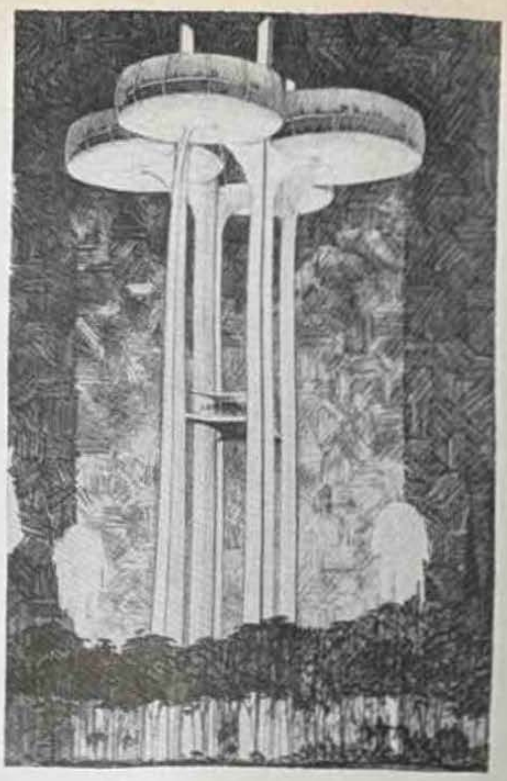
In October, the executive vice president and general manager of the Fair, who had served since September 1961, resigned because of what he termed "unsurmountable differences of policy opinion with members of the executive committee and Fair officials". To minimize any possibilities of protracted litigation, as well as in recognition of his contribution's to the Fair's present progress, the committee recommended a final settlement.

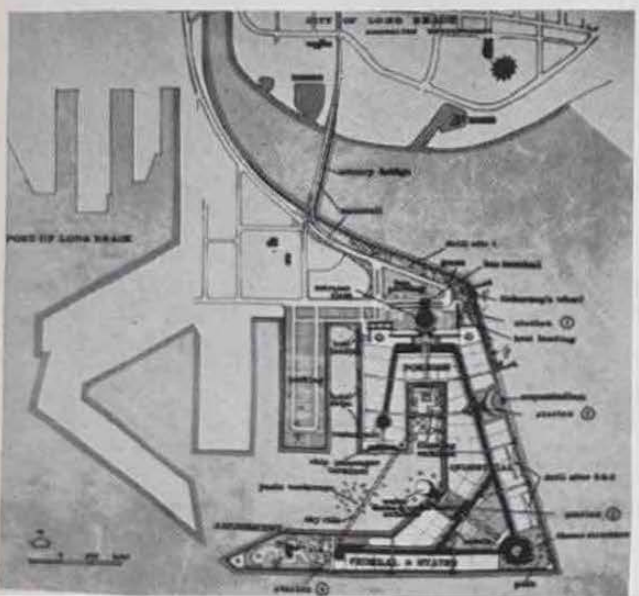
Meanwhile, dismissal of a law suit brought against the California World's Fair by disgrunted former employees and dissident dismissed directors, has been requested by the Fair's general counsel in a demurrer filed with the Los Angeles Superior Court. It has been taken under advisement.

Formation of a special Finance Exploration Committee composed of Fair executives and Long Beach civic leaders, to explore the problem of raising construction financing, has been approved. This is the most vital question now facing the Fair executives.

An initial cost figure of $400 million is expected to provide the city with $10 million in permanent buildings and improvements for the Harbor, according to the terms of the site lease, but an additional $65 million in permanent structures is forecast for Long Beach.

Charles Luckman Associates, Los Angeles architect-planners, retained as Master Planners and coordinating architects for the Fair, have presented an overall plan to the city for approval. The Fair site, a 320-acre land-fill area, stretches one mile out into the Pacific Ocean and one mile across. Already under construction, the site, called Pier "J", will be the largest man-made harbor facility in the world. A total of three million tons of rock is required, and some 33 million cu. yds. of fill is being dredged from the ocean. The site is expected to be completed early in 1965 with building construction to start immediately thereafter.





The Master Site Plan, still to get final approval, indicates areas for industrial exhibits, federal and state exhibits, an amusement area, foreign exhibits. Other facilities planned include an Aquastadium facing the ocean, a "Fisherman's Wharf", an area for floating exhibits, reached by crossing a bridge system from exhibit to exhibit.

Structures proposed by the Luckman organization will utilize the sea and water as thematic concepts. A canal system will traverse the length of the pier area, serving as a transportation system as well as a picturesque landscaping feature.

A graceful structure, topped by restaurants and observation areas, and reminiscent of Seattle's Space Needle, will provide a spectacular view of the ocean and Catalina Island on one side, mountains on the other. A huge platform-elevator will transport 350 passengers at one time to the top of the 400-ft. structure.

A giant structure, rising from the water, will combine spouting water in a fountain effect, with a quality of flame—a giant gas jet serving as a beacon at the top. Lights and music will play over this at night. A simulated under-water city is in the planning stage as well as a mile-long over-water sky ride.

Perhaps the most exciting idea is the Theme Structure—a "Monument to Freedom"—that will be a companion structure in the West to the Statue of Liberty in the East. Consideration is being given to an international competition for best architectural design for the monument.

The best ideas are more exciting in CONCRETE

Newly completed Lawry's Foods Center, Los Angeles, California

Light, space and unrestrained warmth... with roof and columns of precast concrete

Surrounding a sunny interior court and pool is an arcade of precast concrete columns and panels, carrying out the informal mood of Lawry's Foods Center. Architects: Buff, Straub & Hensman, AIA, Los Angeles, and Arthur Lavagnino, AIA, Pasadena. Structural Engineer: William C. Taylor, Pasadena. Contractor: Ruane Corporation, Los Angeles.

A building to reflect the California spirit of outdoor living was the goal of Lawry's Foods, Inc. in remodeling their Los Angeles plant. Yet, the building had to be a completely functional operating and production headquarters for the specialty foods company.

Soaring concrete columns and precast concrete roof panels were the architect's choice to achieve the results the owner wanted. The inviting result is Lawry's Foods Center, a showplace with a modern airiness that retains the warmth of California tradition. It could only be done so well with concrete, the material that combines beauty, adaptability and strength.

Today, architects find distinctive design and advanced construction techniques grow readily from concrete's infinite versatility.

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235 Montgomery St., San Francisco 4, Cal. • 903 Seaboard Bldg., Seattle 1, Washington • 816 West Fifth St., Los Angeles 17, Cal.
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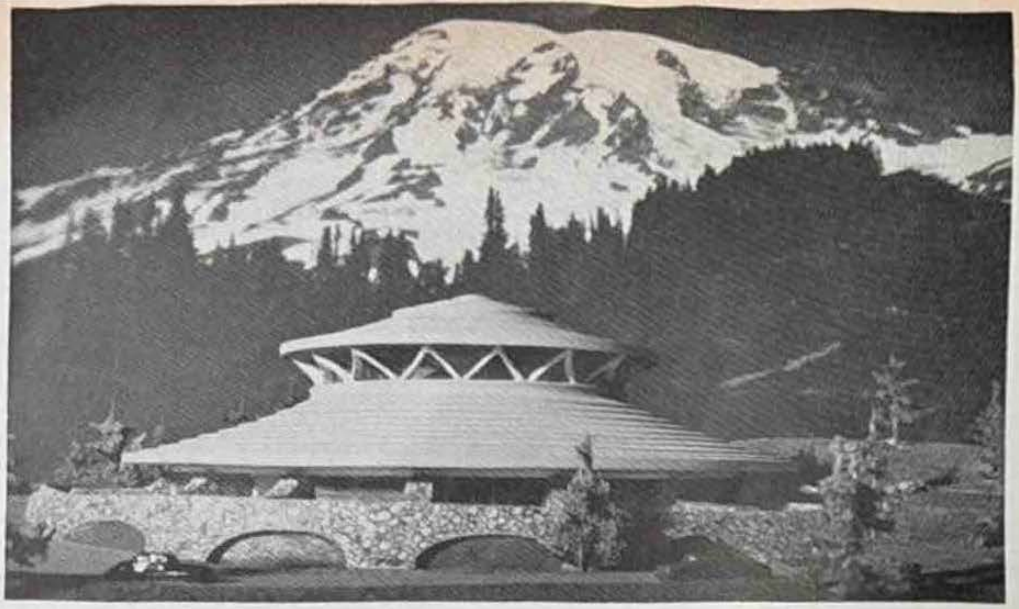
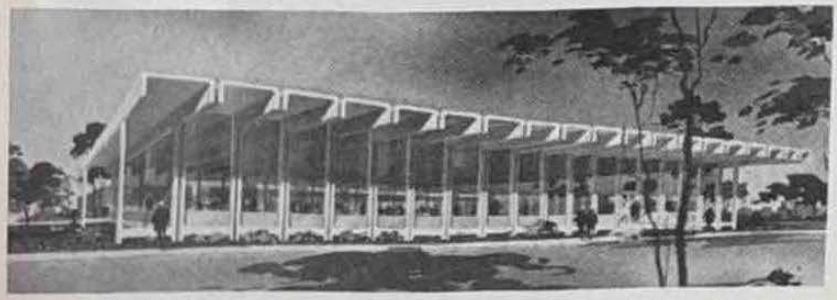
A national organization to improve and extend the uses of concrete



THREE-STORY CIRCULAR, CONICAL building at Mt. Rainier National Park, Washington, will function as visitors' day center in summer, ski lodge in winter. The reinforced concrete structure will have native rock masonry around foundation and buttresses, and harmonizing earth colors on roof to blend with surroundings. Included will be cafeteria, skiers and hikers area, auditorium, exhibit space, first aid station, park offices, information areas. Construction will start June 1964. Estimated cost: $1.1 million. Architects: Wimberly, Whisenand, Allison & Tong, Ltd., Honolulu; Maguire & Muri, Tacoma, associates.

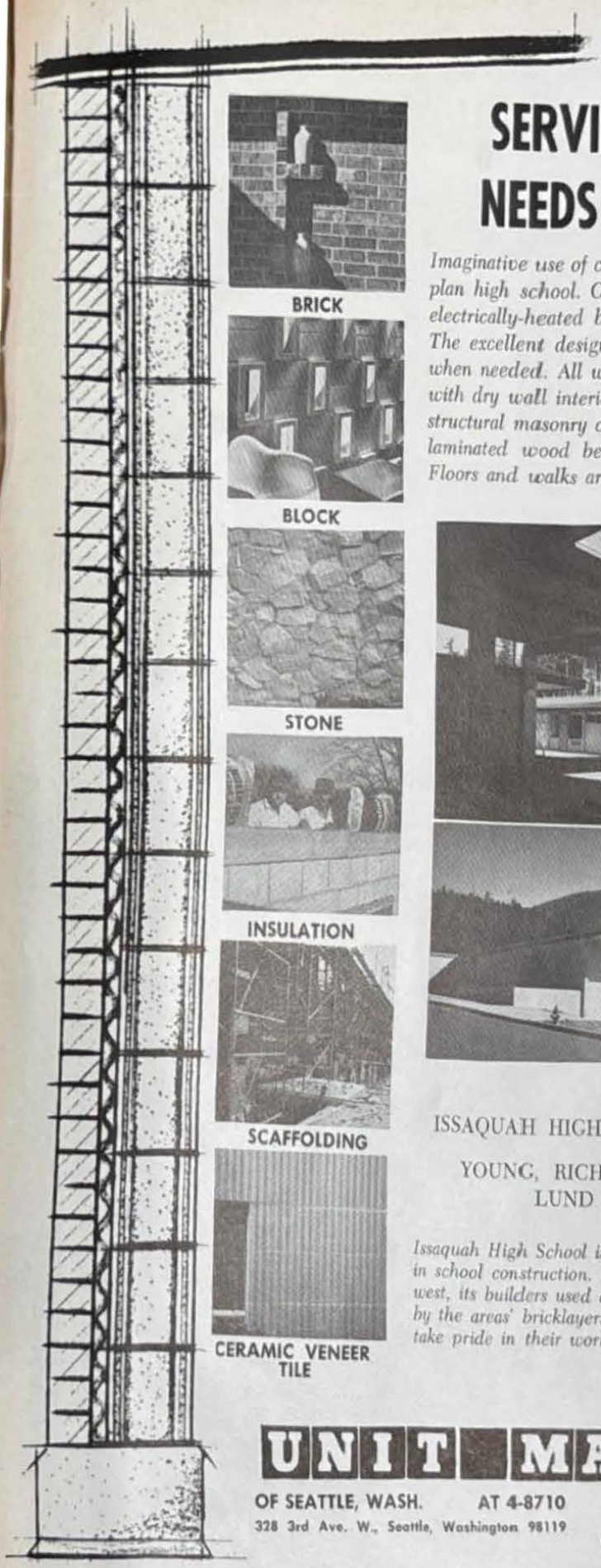
PROJECT PREVIEW



ENLISTED MEN'S MESS HALL for the Fleet Anti-Submarine Warfare School, U.S. Navy, San Diego, discards usual drab concept of military structures. Design uses a system of prestressed concrete channels which span the one-story structure and rest on reinforced concrete columns. Brick, concrete and glass walls will be used extensively. Building will serve more than 1,200 enlisted men. Architects: Deems-Martin, Associates, San Diego; Structural Engineers: A. J. Blaylock and Associates.

INSURANCE BUILDING, Anchorage, Alaska, is two-storied, of structural steel with reinforced concrete floor and roof slabs. Exterior walls are reinforced concrete and aluminum curtain walls. Exposed interior walls are hardwood paneling, vinyl covered gypsum board. Architects: Manley & Mayer, Anchorage.

PRESBYTERIAN HOSPITAL, San Francisco, is one part of the $33 million master plan for the Presbyterian Medical Center, to be located at site of the old Stanford Hospital, on five and one-half acres along Sacramento, Clay, Buchanan and Webster Streets. The 11-story hospital will eventually accommodate 480 beds, and will rise above a terraced and landscaped mall. Underground connections will serve the new 6-story Professional Building and the Outpatient Clinic, part of the complex as will a 4-level underground garage. Architects: Skidmore, Owings & Merrill, San Francisco.



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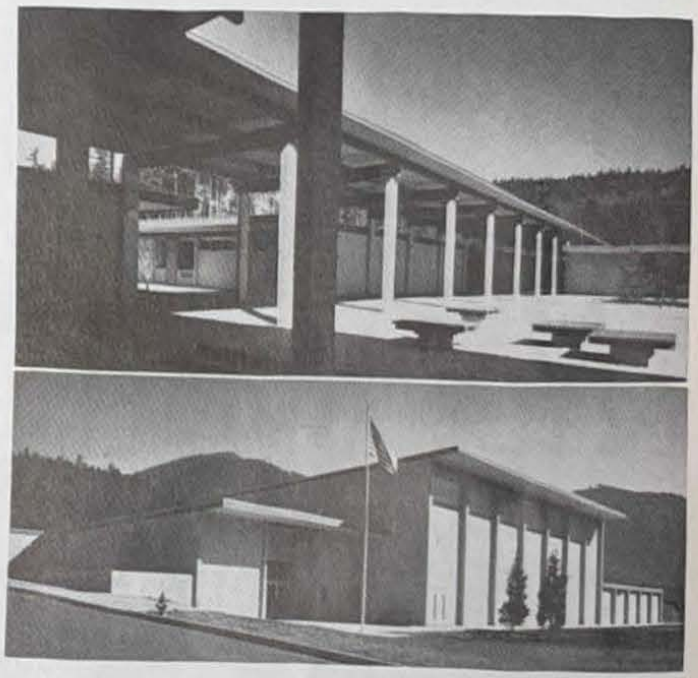
Imaginative use of concrete shows throughout this modern campus-plan high school. Covered outside corridors connect the thirteen electrically-heated buildings, four teaching stations are provided. The excellent design allows the addition of twenty more stations when needed. All walls are built with Half-High concrete blocks, with dry wall interior finish. Half-High units also are used in the structural masonry columns that bear the roofing system of glued-laminated wood beams and long-span stressed plywood panels. Floors and walks are of concrete slab.



Hugh Stratford, Photo

ISSAQUAH HIGH SCHOOL, ISSAQUAH, WASHINGTON

YOUNG, RICHARDSON & CARLETON, Architects
LUND MASONRY, Mason Contractor

Issaquah High School is an outstanding example of the use of concrete in school construction. Like scores of other schools here in the Northwest, its builders used concrete products, for its value has been proved by the areas' bricklayers and masons—skilled, productive craftsmen who take pride in their work.

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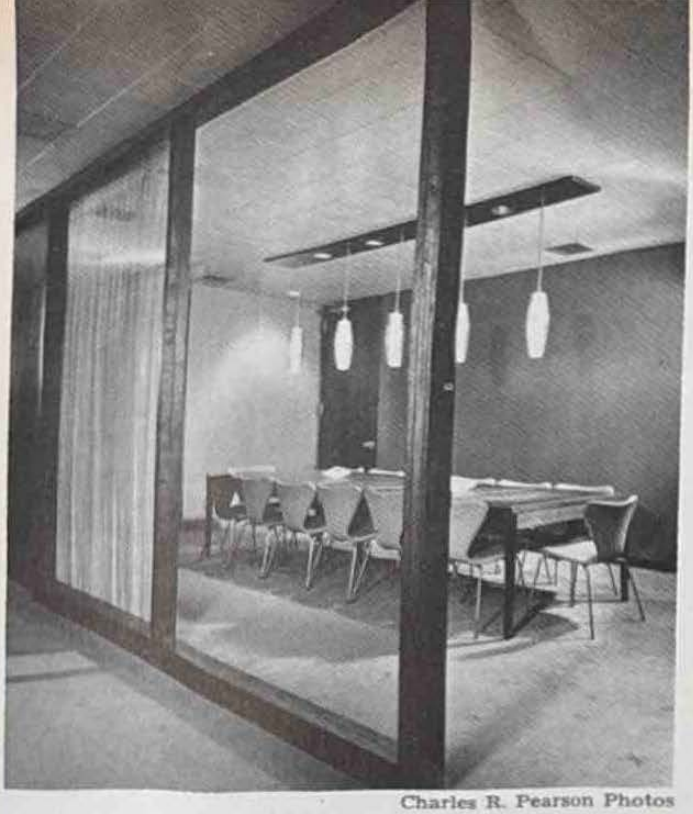

Charles R. Pearson Photos

INVESTMENT SECURITIES OFFICE
Blyth & Co., Seattle

Business Space Design
Interiors

FROM THE TRAVERTINE PANEL at the entrance to the selection of ash trays, each element in this office in a new building was considered in relationship to total design. Even the window sills are specially selected Rosewood laminate.

Custom designed carpeting by Gulistan is golden bronze throughout the areas. With the beige and gold tone walls (accented with deep blue in the conference room) the carpeting forms a background for furniture in rich colors and materials.

The reception area features a pair of honey bronze oxhide Barcelona chairs, flanking a settee covered in beige linen. Tables and the receptionist's desk are crafted of Brazilian Rosewood with oil-rubbed finish. Dramatic accents are provided by cobalt blue fabric of the swivel chair and a brass light fixture by Irene McGowan.

The Rosewood conference table with black Naugahyde insets is surrounded with glove soft, flesh-colored chairs that echo the colors of the carpet. The lighting fixture, equipped with dimmers for both spots and gray glass pendants, picks up and reflects the other colors.

Private offices are arranged along an interior corridor of ebonized Birch relite frames and dark walnut doors. Chrome-yellow side chairs offer startling contrast.

General office areas are gold, with light blue metal desks, chairs of blue and black. Fabrics are by Isabel Scott and Knoll, furniture is Herman Miller, Knoll and Corey-Jamestown.

Sure you can have exciting brick! Let your imagination and brick from Builders Brick Co. help set the mood.

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D. N. McDonald & Assoc.
Dan F. Miller
Paul Thiry
Young, Richardson & Carleton

ARTISTS Norman Warsinske—Howard Duell

BRICK Builders Brick Co. of Seattle

Now take your pencil and put your ideas in Builders Brick

J. Roy Carroll keynotes PCI California convention

J. Roy Carroll, Philadelphia, president of the American Institute of Architects, appealed to engineers, contractors and material suppliers to join with the architects in a nationwide fight against "a sea of ugliness that is inundating cities from coast to coast". The plea was delivered as the keynote address to the ninth annual convention of the Prestressed Concrete Institute, at the Sheraton Palace Hotel, San Francisco, in October.

"Architects and engineers", Carroll declared, "must see to it that highways as well as transit systems are planned to meet social, economic and esthetic needs of the community. Freeways are a job not merely for the highway and traffic engineer, but for the architect, the landscape architect, the city planner and others.

"We cannot continue to build a handful of beautiful structures in a sea of ugliness," he warned. "We are getting the reputation of being the ugliest country in the Western world and, unfortunately, we deserve it".

Several noted architects took part in the many panel discussions. Max Abramovitz, New York, felt that prestressed concrete has yet to show that it has a creative aesthetic aura of its own. Albert C. Martin, Jr., Los Angeles, said that architects are not using prestressed concrete as widely as the material deserves and that designs are sure to change when they do. John Graham cited prestressed concrete for "the clean way it goes together". A paper on the "Economics of Prestressed Concrete and Reinforced Concrete Roof Structures" was presented by Myron Goldsmith of Skidmore, Owings and Merrill, Chicago.

Other highlights of the session were discussion of new developments in prestressed bridges and freeway structures; a comprehensive study of prestressed bridges utilizing precast concrete elements by Ben C. Gerwick, Jr.; a discussion on long span European prestressed bridges by German consulting engineer F. Leonhardt; addresses on production and research by two Russian engineers and on prestressed marine construction by R. A. Sandford from Singapore.

A joint PCI-ASCE session directed at "Analysis and Design of Earthquake Resistant Structures", was summarized by T. Y. Lin of the University of California. The concluding joint session was on precast concrete connections and erections.

Elmer D. Clark, executive vice president and general manager, United Materials, Inc., Phoenix, was elected president of PCI.

T-SQUARE TALK

NEW OFFICES

Robert M. Schaefer has opened offices for the practice of architecture at 2130 Sutterville Road, Sacramento.

A new firm, Ben Hamilton & Associates, has been opened in Van Nuys, at 14640 Victory Boulevard, with Ben Hamilton, formerly with Ferguson, Hutchison & Associates, as principal.

F. E. MacDonald, Jr., civil engineer; Richard Tobias, architect, and Walter Hessert, structural engineer, have combined professional talents to form a new firm of Tobias-Hessert-MacDonald, architect-engineers, at 215 W. Las Tunas Drive, San Gabriel.

Three San Diego architects, William T. Hendrick, John R. Mock and W. Russell Tipple, have combined to form an architectural consulting firm at 5241 University Avenue. Firm will be called Hendrick-Mock-Tipple Associates.

Boyd A. Blackner, formerly in charge of the Sarasota, Florida, office of Victor A. Lundy, has returned to Salt Lake City to establish his own office in the Dooly Building.

FIRM CHANGES

The firm of Harrison and Wolfe, formerly Thonis, Harrison & Wolfe, has relocated offices at 1111 W. Washington Blvd., Los Angeles. The firm was previously located at 3850 W. Santa Barbara.

R. S. Reynolds annual award

Nominations are being received for the 1964 eighth annual R. S. Reynolds Memorial Award. The international award, consisting of an honorarium of $25,000 and an original sculpture in aluminum, is conferred each year on an architect for design of a significant work of architecture in which aluminum has been an important contributing factor. Preference is given to structures completed within the last three years.

Nominations may be made by anyone, including the architect himself or a member of his firm, and are acceptable through December 31, 1963. These should be sent to The Reynolds Award, the American Institute of Architects, 1735 New York Ave. N.W., Washington, D.C., 20006.

The award will be presented during the AIA convention in St. Louis, June 14-18.

Ralph Flewelling, partner in the Los Angeles firm of Flewelling and Moody, was guest speaker at the recent annual conference of Prestressed Concrete Producers of Oregon held in Portland.

The Phoenix firm of Ralph Haver and Associates has been reorganized and the name changed to Haver, Nunn & Jensen, Architects. Principals are Ralph Haver, Jimmie R. Nunn and Ross L. Jensen. Two other associates are James L. Salter, designer, and James E. Harris, field supervisor. The firm will continue its practice at 1133 East Missouri Ave., Suite J.

The firm of Williams and Ellis, Consulting Engineers, has announced the change of its name to Williams and Ellis, Engineers and Architects, with the addition of a new partner, architect Donald Burns Bauer. Offices are at 1130 W. Fillmore, Phoenix.

Bill Merrill of the Portland firm of Westberg & Merrill, has joined Clowdsley and Whipple, Stockton, California architects.

AWARDS

Seattle architects, L. S. Higgins Associates, designed the Blackstock Lumber Co. model home which has been named regional winner in the national design competition co-sponsored by the Home Manufacturers' Association and Look Magazine. The award was made for a home in the 1200-sq. ft. and over classification.

Four citations have been made by Good Housekeeping Magazine to Bell & Valdez, builders, for communities designed and built by the firm. John M. Anderson & Associates, Seattle, are architects for the builders.

NEW ADDRESSES

Edwin H. Ripperdan, Long Beach, to 3610 Long Beach Blvd.

Leon Brin, to new offices, remodeled and designed by his firm, at 1665 Pearl St., Denver.

George W. Christensen to 1133 E. Missouri, Suite D, Phoenix.

Robert F. Gordon to 2564 N. Altadena Dr., Altadena, from Sierra Madre.

James F. Bernard to 4655 College Ave., San Diego.

✔ W. G. Wilmot, Jr., 3276 Commercial St. S.E., Salem.

✔ Stanley S. Kleinert to 16737 Tupper St., Sepulveda, from North Hollywood.

✔ Nathan Woolley, Architect-Planner, to 654 South 9th East, Salt Lake City.

✔ Jules Salkin to 9465 Wilshire Blvd., Suite 721, Beverly Hills, from Los Angeles.

✔ Frank R. Krueger to 311 San Carlos Ave., Piedmont, from Richmond, Calif.

✔ Hayden Y. Phillips to Room 210, 250 Ward Ave., Honolulu.

✔ San Diego Chapter, AIA, to Studio 5, House of Hospitality in Balboa Park, San Diego.

✔ Kazuo N. Hayakawa to 4286 Aralia Rd., Altadena, from Pasadena.

✔ Ernest R. Lord to 3444 Borreson St., San Diego.

✔ Martin W. Berion to 1638 Orchard View, San Jose, from Los Gatos.

✔ M. L. Calender to 115 Parnell St., Santa Cruz, from Fresno.

✔ Daniel A. Perkins to 3519 Utah St., San Diego.

✔ Vernon C. Smith to 2217-B California St., Berkeley.

✔ Victor L. Wulff to 4041 Bonita Road, Bonita, Calif, from San Diego.

✔ Lloyd A. Rasmussen to 925 Post St., San Francisco, from Novato.

✔ William N. Ross to 6414 Calle de San Alberto, Tucson, from Pasco, Wash.

✔ George Wiseman to Suite 28, 833 Dover Dr., Newport Beach.

✔ Henry Greybrook to 518 Main St., Vancouver, Washington.

✔ Robert A. Gillis to 922½-8th Ave., Helena, from Great Falls.

✔ Brandis Architects to 2222 Paradise Road, Las Vegas.

✔ Verne C. Chaney to 7127 Dudley Drive, Arvada, Colorado.

We apologize . . .

The October issue of Architecture/West carried a highly erroneous item on the Billings firm of Orr Pickering & Associates, Architects and Engineers. The firm, was founded in 1945 by Orr Pickering. In 1961, Mr. Pickering and his four associates, Orval H. Graham, architect and professional engineer, E. E. Scrowcroft, Claude M. Hansen, and William J. Ottem, Jr., architects, formed a corporation under the same name.

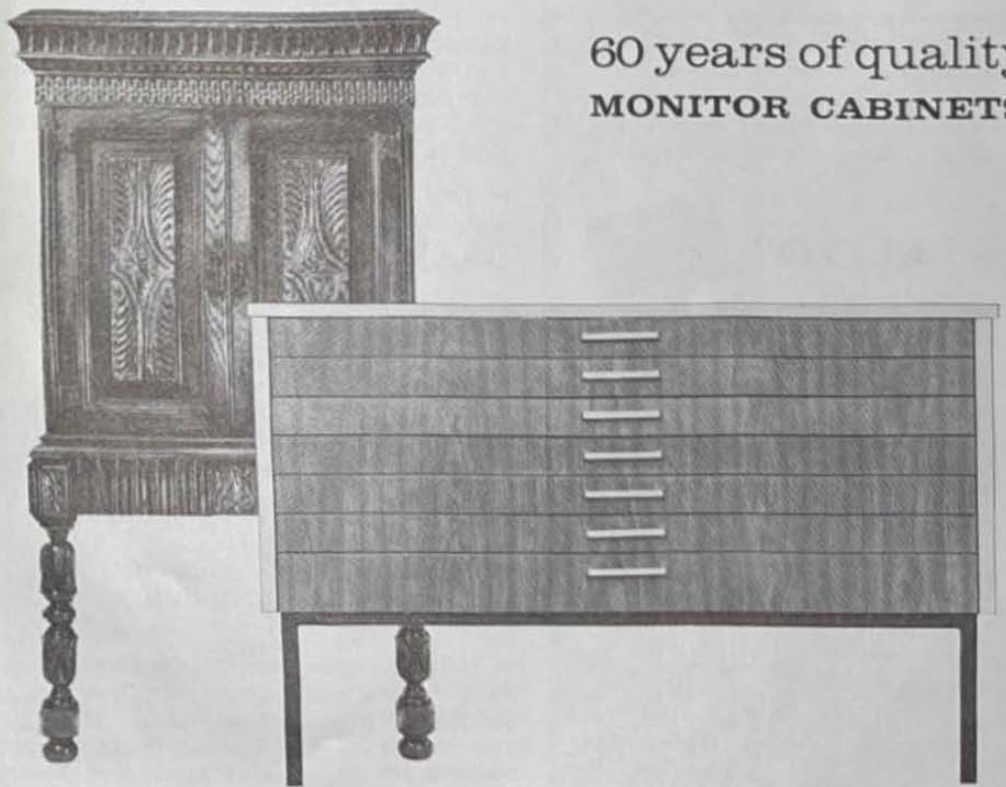
Fallout shelter competition carries $15,000 grand prize

A national competition for design of a shopping center incorporating a fallout shelter has been authorized by the National Defense Department. The American Institute of Architects, as a public service, is conducting the competition.

The contest is open to architects and engineers registered in the United States, to faculty members and graduates of accredited architectural and engineering schools. Architects and engineers, working as design teams, are encouraged because of the scope of the design problem.

A national grand prize of $15,000 will be awarded one entry selected from among eight regional first place winners in the eight Office of Civil Defense Regions. In addition, seven regional first prizes of $4,000, eight regional second prizes of $1,000, and eight regional third prizes of $500, will be awarded.

Registration forms are available through A. Stanley McGaughan, AIA, Professional Advisor, National Community Fallout Shelter Design Competition, 1341 New Hampshire Ave. N.W., Washington, D.C. 20036.



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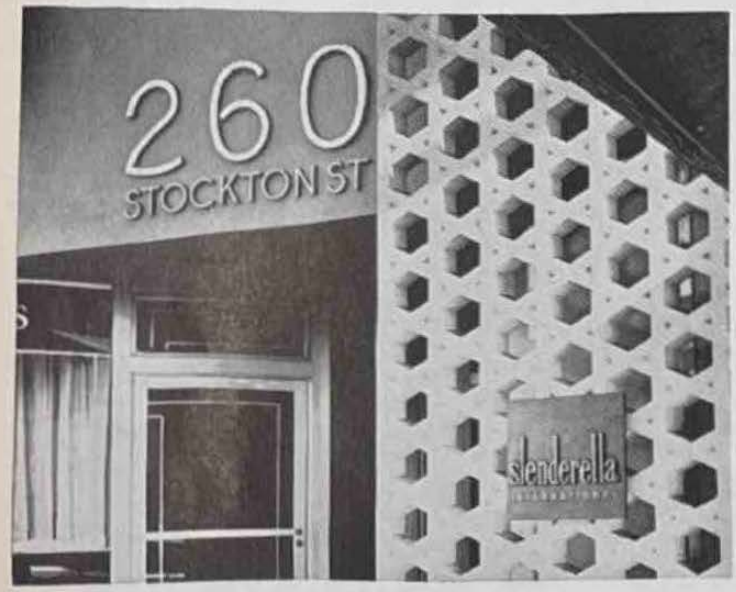

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T-SQUARE TALK

ELECTIONS

Robert Fehlberg of Cushing, Terrell & Associated Architects, Billings, was elected president of the Montana Chapter, American Institute of Architects, at the chapter's fall meeting in Billings. He succeeds Charles Kestle of Butte. Others elected: David Davidson, Great Falls, vice president; A. C. Cheever, Bozeman, reelected secretary-treasurer; and Ray Thon, Kalispell, director, with Charles Kestle, holdover director.

New officers of the Colorado State Board of Examiners are: Walter H. Simon, Denver, president; De Von M. Carlson, Boulder, vice president; Norton Polivnick, Denver, secretary; Robert A. Van Deusen, Grand Junction, and Russell M. Wright, Denver, board members.

F. Wayne White, Fairbanks, was elected president of the Alaska Chapter, AIA, at the two-day annual conference, Oct. 29-30, in Fairbanks. He succeeds Linn A. Forrest, Sr., Juneau. Also elected: Wallace J. Wellenstein, Anchorage, vice president; Edward Y. Osborne, Fairbanks, secretary; Jenkins Graham, Juneau, treasurer; Edwin Crittenden, Anchorage, board member.

Arthur J. Rendon, associate in the Los Angeles firm of Kistner, Wright and Wright, has been re-elected president of the Los Angeles Board of Health Commissioners.

Vernon L. Drake of Drake & Gustafson, Billings, was elected president of the Billings Architectural Association. Other officers are Ralph Cole, vice president; Ben Nielson, secretary-treasurer.

APPOINTMENTS

Alfred Preis, Honolulu, has been appointed Hawaii State Planning Coordinator, a newly created position to coordinate land use planning activities of Hawaii State and Honolulu County agencies.

Rai Y. Okamoto, San Francisco architect, has been appointed as a consultant to the Urban Renewal Administration. His assignment will include the development of a program for use by the Central and Regional URA staffs and local public agencies to achieve improved design in urban renewal areas.

Peter R. Hanson, Laramie architect, has been reappointed to the City Planning Commission.

Daniel, Mann, Johnson and Mendenhall, Los Angeles architects-engineers, have appointed Lawrence Williams as staff economics consultant.

DEATHS

Raymond Leslie Evans, 68, died October 17 in a Salt Lake City hospital after a long illness. He was a partner in the firm of Ashton, Evans, Brazier & Associates, which he helped form in 1923. A past president of the Utah Chapter of AIA, he was awarded a gold medal for service by that organization in 1963. He designed the George Thomas Library, the Music Hall on the University of Utah campus, the Utah State prison and the Federal Reserve building.

Nelson J. Morrison, 72, first president of the Southwest Washington Chapter, AIA, Tacoma, passed away on October 16 after a long illness. He was a graduate in architecture of the University of Pennsylvania, and a member of the firm of Mock and Morrison. Until his health prevented, he had served as secretary of the Washington State Council of Architects.

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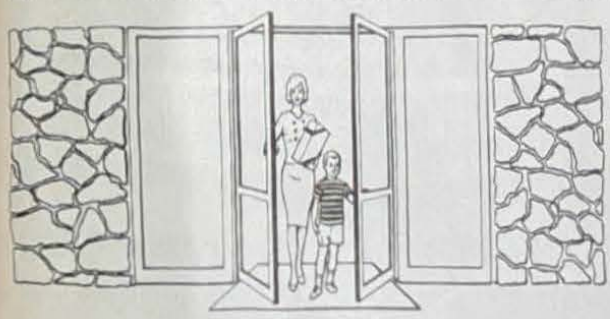

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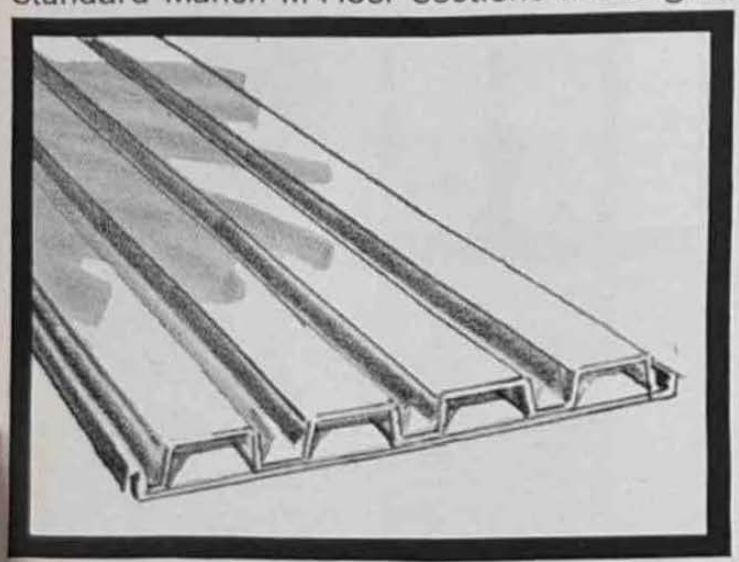

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Hands Cupped to the Skies at Christmastime

THE EARLY CHRISTIANS were a people persecuted, who had to find caves and byways for their place of meeting. In medieval times the Church was one with the public square and market place. The cobblestones often continued into the Church, where the populace milled from corner to corner, according to the ceremony or location of the sun's warming rays.

In our time, we live in a free society and in an age of physical comforts. It is appropriate our churches arise from the dark into the light of day. We now understand more of nature and are spiritually attuned to confer with it. Through communion with nature we form a closer tie with the Infinite.

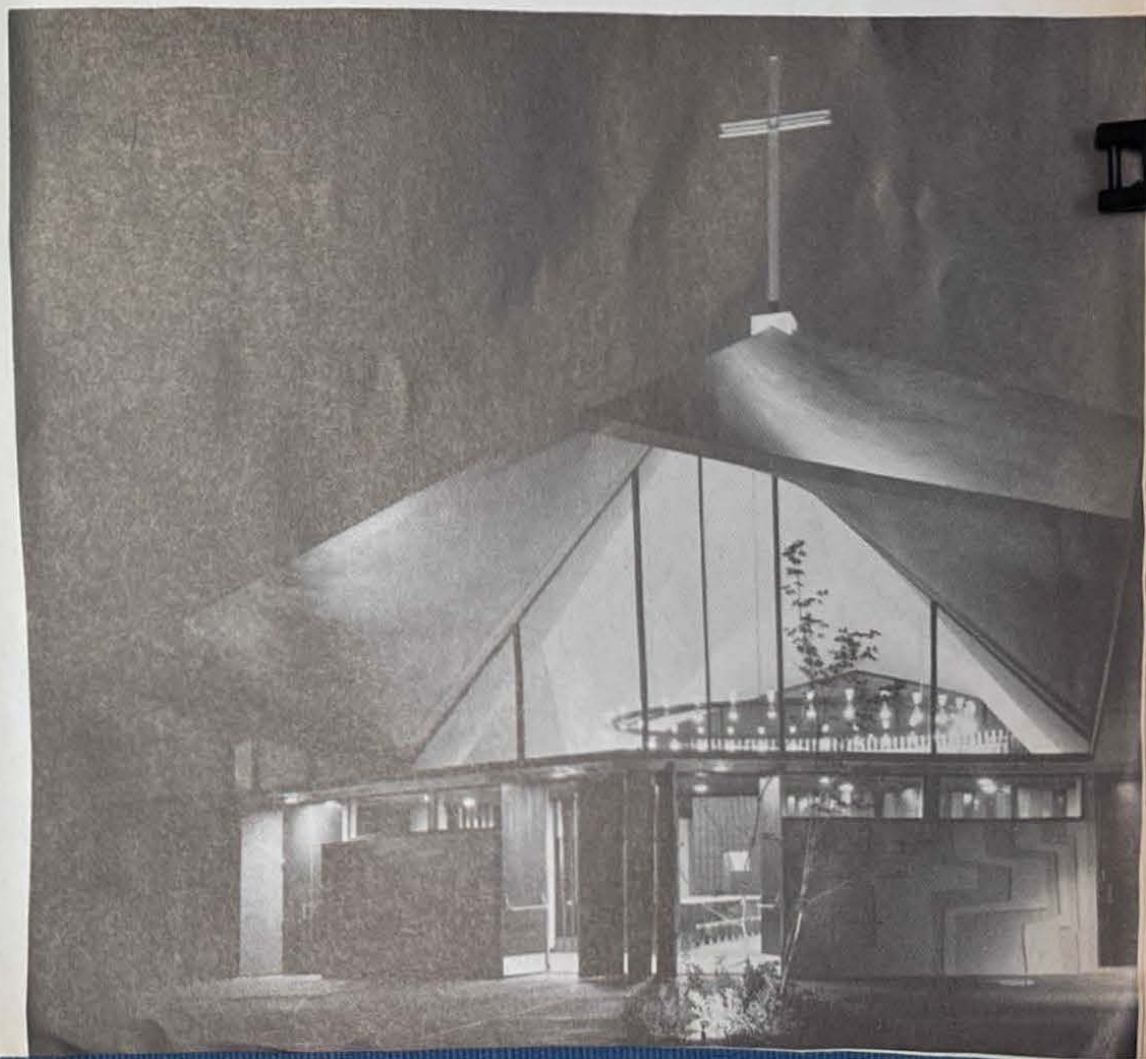
As life changes so should our concept of building, particularly with regard to churches. The Church now can be shelter in consort with the out-of-doors. The Mercer Island Church is blessed with a location on top of a hill, which allows the vision panoramic range—of land, distant waterways, and of sky.

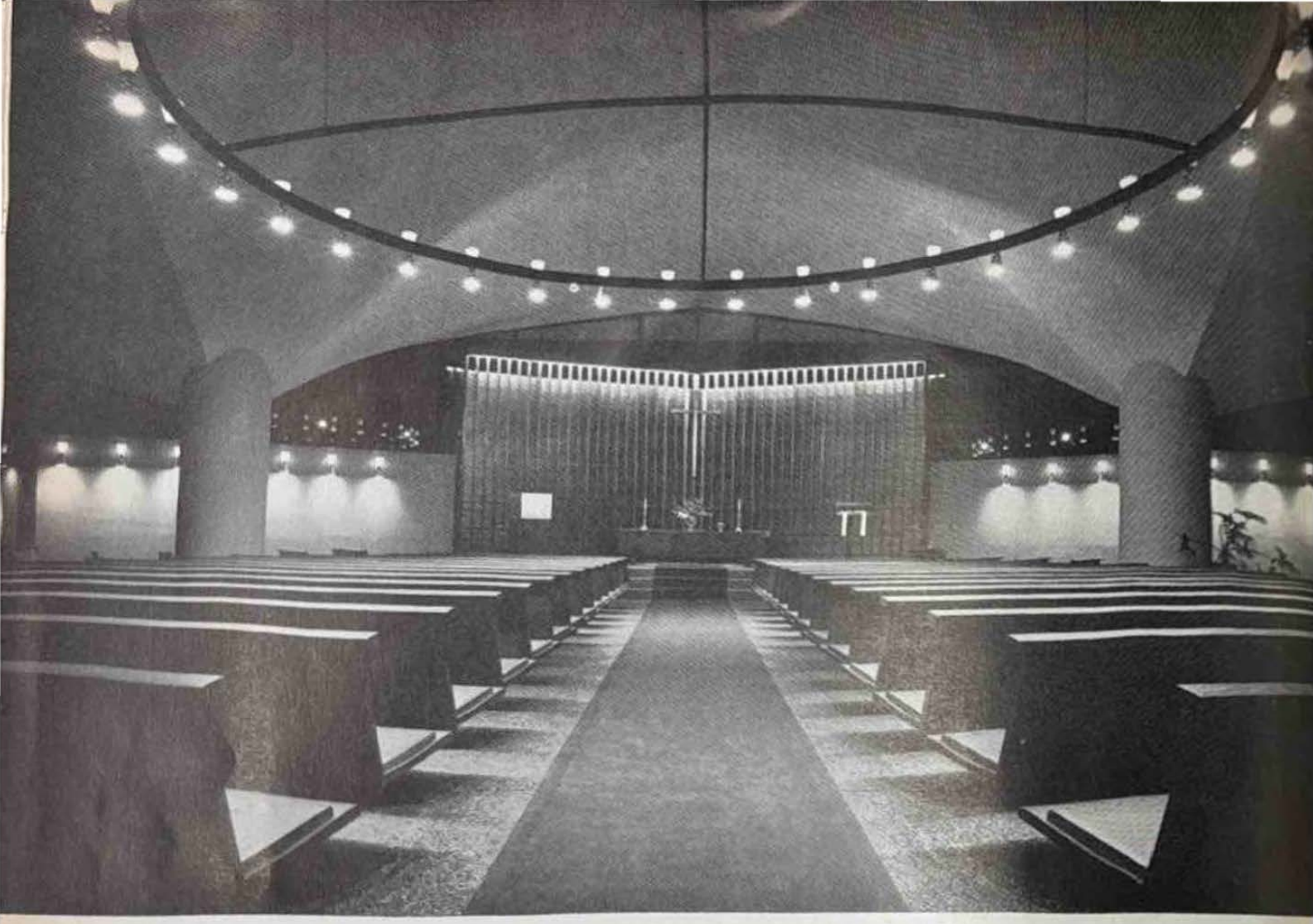
These we have availed ourselves of—to make them one with the sanctuary. Through this technique we become sensitive to seasons and the feasts of the Church year. Sunshine, rain and snow bring an awareness of the passage of time, also reflected by nature in vegetation and foliage. The moving clouds, the forms of trees, rustling of branches, birds in flight, light, shade and shadow—all become a part of design.

At twilight, and at night, the changing images, distant lights, the stars and the moon become a part of architecture as well as manifestations of the Creator.

The form of the sanctuary is of cupped hands held skyward. Its shape directs the seating to the chancel and to congregation with the minister. It is hoped this will be a true sanctuary for men—in oneness with earth and the universal mysteries of the sky.

—Paul Thiry





Shelter in Consort with the Out-of-Doors

A REMARKABLE ROOF which dominates the exterior expression of the Mercer Island Presbyterian Church Sanctuary, unobtrusively creates an interior impression of shelter in communion with the heavens.

The main roof is an impressive, thin shell concrete structure composed of sixteen hyperbolic paraboloid elements, hovering over a hexagonal building form. This roof springs from four massive columns within the worship space, and rises to an apex over 40 feet above ground. The roof shell is capped with a large cross and surfaced with Gaco white neoprene roofing.

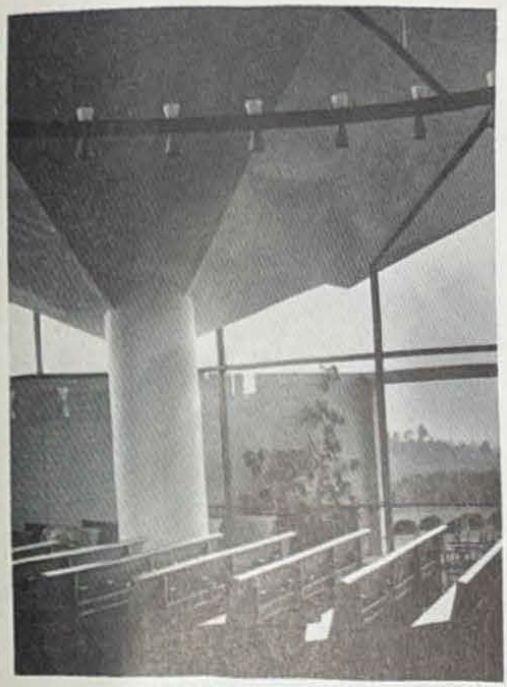
The Sanctuary (3700 square feet of floor area) seats over 350 people in a radiating pew arrangement, and is flanked by an intimate garden on the south and an open court, with a view to Lake Washington on the north. These areas are defined by textured tilt-up concrete walls. Enclosure of the sanctuary is accomplished by large scale window walls.

The chancel and appointments are effected in red oak with brass ornament. Apitong wood is used in making the Chancel Screen, which also screens the organ pipe space. Illumination is achieved by a twenty foot diameter "light ring" suspended from the roof shell. This fixture is visible from the exterior at night.

The fore-court is composed of rough textured slabs and planter areas articulated with redwood runners. Entrance is gained under a low profile roof extending from the existing building and carrying under the roof shell.

The narthex, divided from the sanctuary proper, by a brilliant colored cathedral glass wall, affords entrance and a congregating space between services. American-St. Gobain "Starlux" clear plate glass is set in structural steel tubing.

At either end of the narthex is a choir room and a fellowship room. Both are completely wood paneled and will be used as well for meetings and special functions. The fellowship room is equipped with a pullman kitchen. Pastor's office, study, toilets, complete the current project. Total floor area of the new facility is approximately 7,800 square feet, completed in 1962 at a cost of $193,000.



SANCTUARY

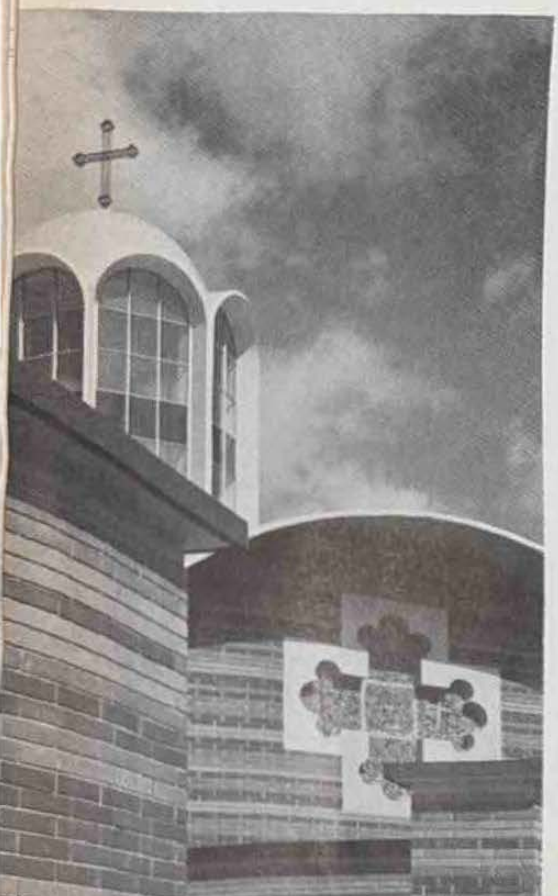
Mercer Island Presbyterian Church
Mercer Island, Washington

Paul Thiry, architect

Strand, Inc., general contractor

Hugh N. Stratford Photos

Byzantine Form and Tradition D



INGENUITY was exercised to a high degree in adapting materials and techniques of the 20th Century to a church that follows Early Greek Orthodox architectural forms, and with design of interior spaces dictated by centuries-old liturgical ceremonies.

Walls are conventional concrete and brick, cavity and veneer. But the main roof is thin-shell vaulted concrete, the lantern is pre-cast concrete. The roof turrets, curved ceilings and interior alcoves are insulated with a two-inch thickness of expanded polystyrene board which had to be "pre-bent" to shape to serve as a form for the concrete. Koppers Co. Dylite polystyrene in sheets 10'3" by 12" by 2" was bent manually as much as to a 10' 3" circumference on a 5'2" diameter, and fastened with pneumatic nailers, then sprayed with Gunite and acoustical plaster.

The total development is 18,570 square feet, with the church containing pews for 566 persons, and an education unit with administration offices, 12 classrooms and an assembly room for 140, at a cost of $475,000.

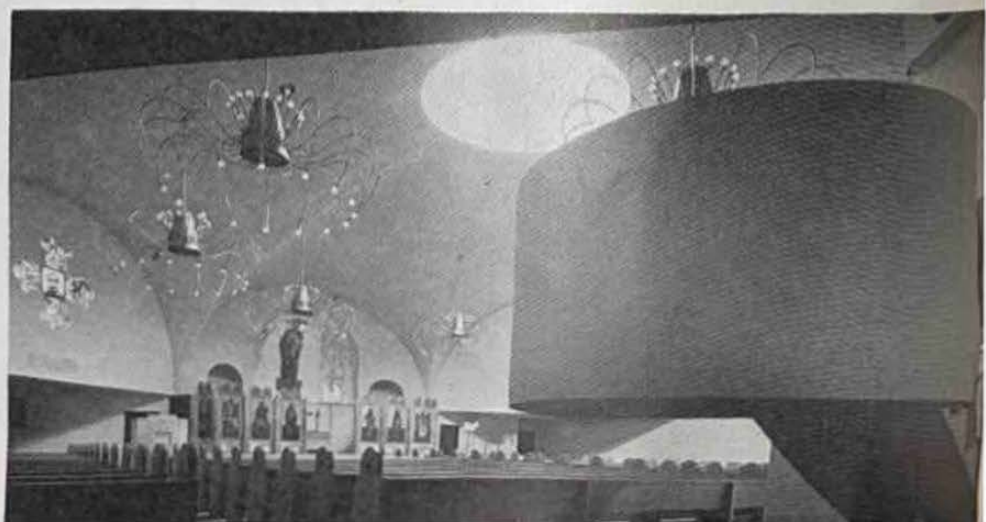
One approaches the church via a large atrium, passing through a portico into the inner narthex to reach the body of the church. The central dome rises 60 feet above the nave floor. The choir is located above the inner narthex. A raised Solea provides space for the Ambo, Bishop's Throne and the Oconostas screening the Holy Vema, Prothesis and Vestry.

Extensive use of tile and mosaics is planned for both interior and exterior; in time interior areas will be further enhanced by art glass, paintings, frescoes and icons representing saints, religious subjects and ancient liturgy.

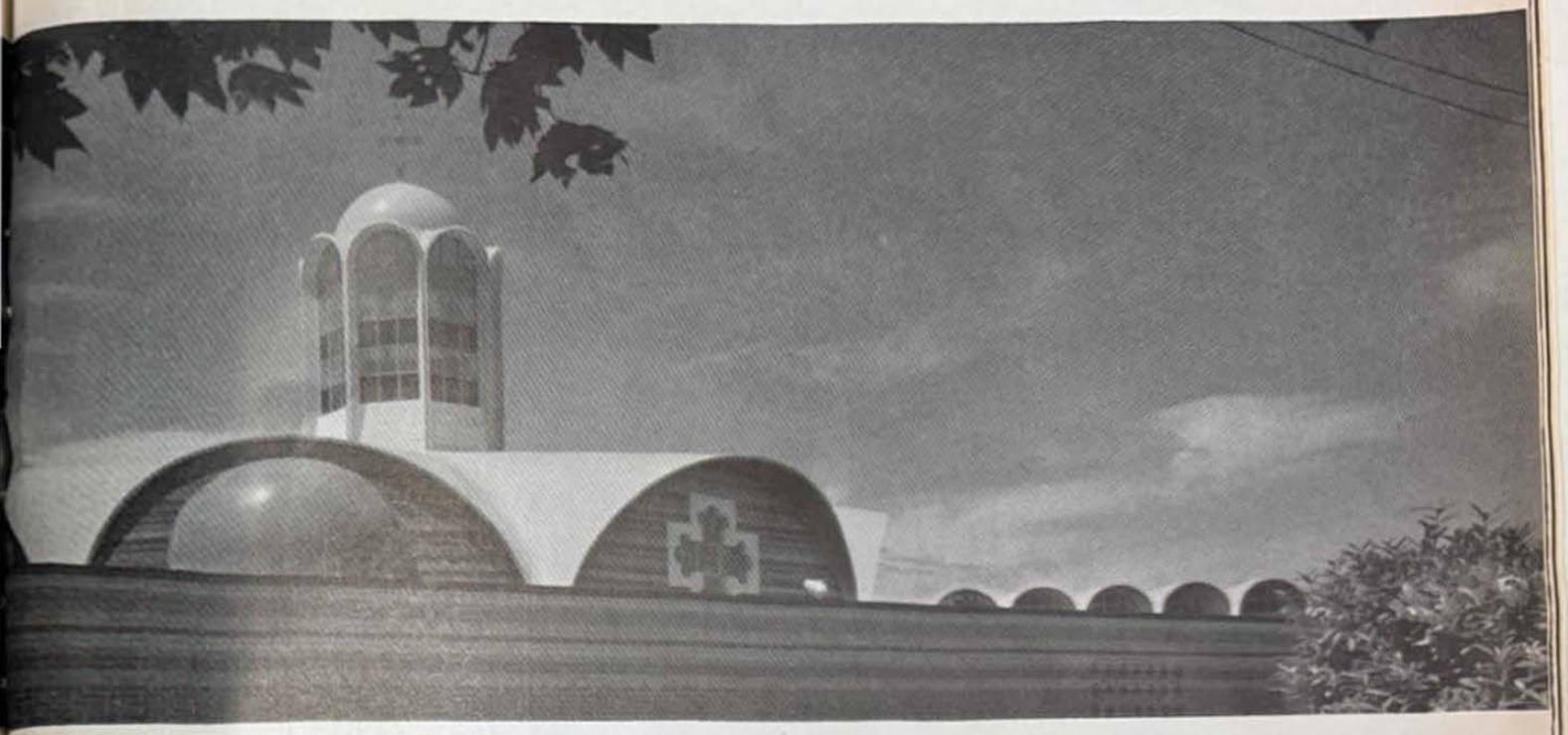
St. Demetrios
GREEK ORTHODOX CHURCH
Seattle, Washington

Paul Thiry, architect

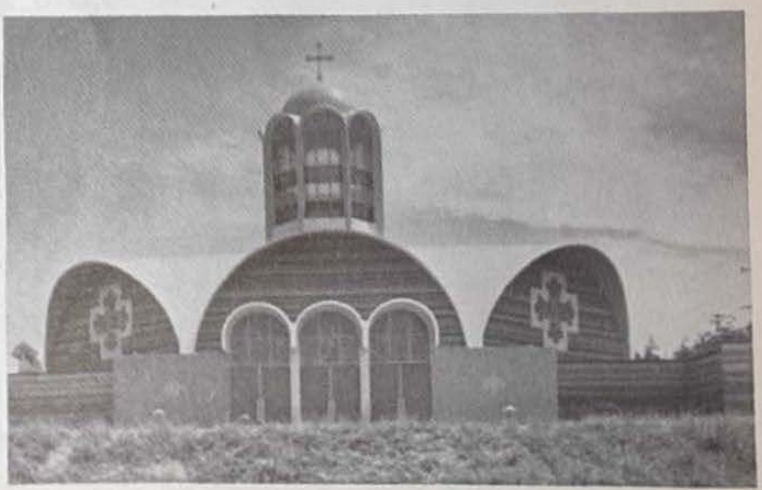
Century Construction Co.,
general contractor



Long-Span Steel and Thin-Shell Concrete



Hugh N. Stratford Photos



A Short history of Byzantine Architecture

By Paul Thiry

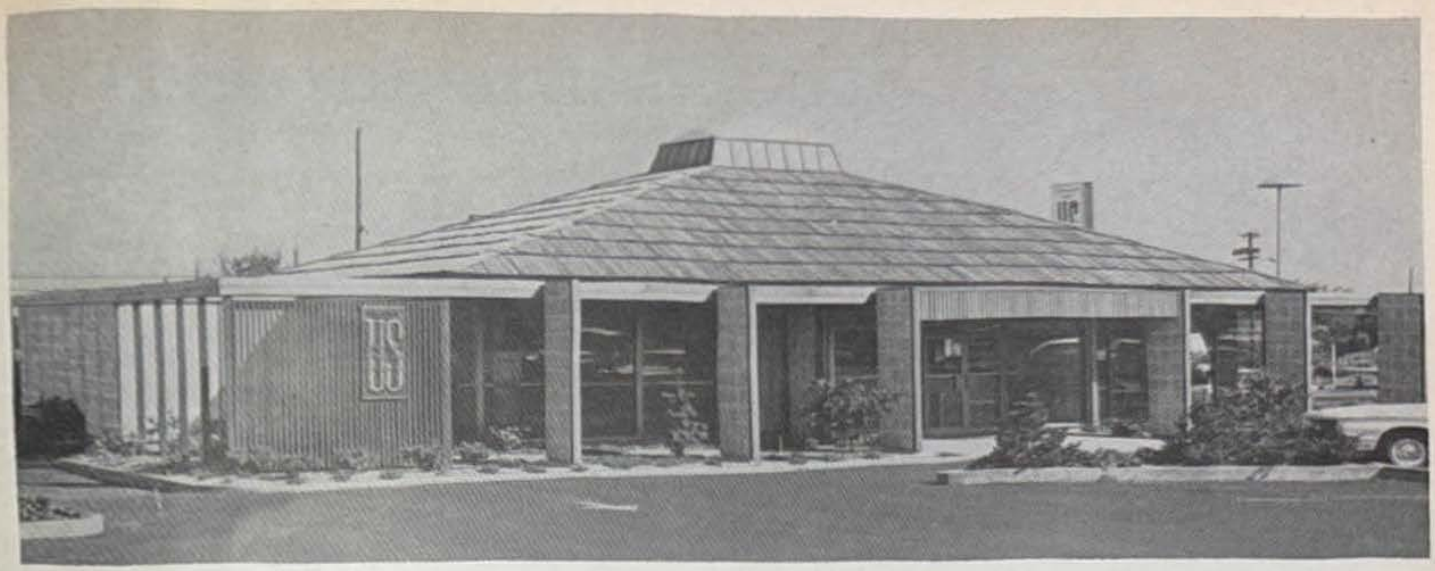
We know Byzantine style architecture has always been the traditional building form of the Greek Orthodox Church and that it came to flourish in Byzantium, with Santa Sophia as its most notable example, during the reign of Constantine (A.D. 330), Emperor of the Roman Empire.

According to history, Byzantium, a Greek colony in B.C. 450, was founded in B.C. 750 and it is noted that its buildings were executed by Greek craftsmen, untrammeled by Roman traditions.

The character of Byzantine architecture, which dates from the Fourth Century to the present day, is determined by the novel development of the dome to cover polygonal and square plans for churches, tombs, and baptistries.

Byzantine art pervaded all parts of the eastern Roman Empire and was carried by traders to Greece, Russia, Asia Minor, North Africa; west to Venice and Ravenna in Italy; and to Perigaux in France.

The change from Roman and Early Christian forms was gradual, but in



Suburban Bank with a Residential Air

THOSE WHO FEEL that a bank should look like a bank will not care for this suburban branch with its residential treatment, yet it seems to bear many novel ideas for a community commercial building.

The hip roof is supported on glued laminated columns that spring inward from four corners to a central square compression box that is covered with a plastic skylight. The exposed ceiling then is fitted with fluorescent fixtures covered with sheet plastic for a diffused lighting that serves its basic purpose, and reads well design-wise.

The residential attitude of handsplit cedar shake roof and rough sawn cedar siding is given commercial strength by the use of special 12x12x1-inch exposed aggregate tile in some walls and in vertical fins along the front wall to serve as sun shelter and to add weight and dignity. The tile are bedded in mortar on concrete block.

SUNNYSLOPE BRANCH BANK
U. S. National Bank of Portland
Salem, Oregon

Groom, Blanchard & Lamen, architects
Willis A. Hill, general contractor

OUTLINE SPECIFICATIONS

Structure: Four laminated fir arches at corners, tied at center by fir compression ring.
Roof: Frame, red cedar handsplit shake.
Walls: Exposed 12x12x1-inch aggregate tile (Marble Mosaics, Blaesing Granite) and rough sawn cedar.
Floor: Concrete slab, Flintkote asbestos vinyl tile. American Olean ceramic tile.
Metal Trim: Kalcolor aluminum, gold.
Skylight: Wasco dome, 9x10 ft.
Interior Walls: Vinyl plastic fabric.
Lighting: Fluorescent tubing inset in ceiling frame, shielded by sheet plastic.
Decorating: Lila Colwell, AID. Suspended ceiling mobile, "Winter Sky" by Irene Lagorio.
Wood Finish: Olympic Stain.
Heating: Forced air supplemented by hot water coils in slab.

McEwan Photos

Short History of Byzantine Architecture

the course of two centuries the East asserted its influence and, though no exact line separates Early Christian and Byzantine styles, the basilican type, inherited from pagan Rome, is characteristic of the former; and the domed type, introduced from the East, of the latter.

Constantine established Christianity as the state religion of the Roman Empire, A.D. 323. The chief buildings erected were churches. The basilican Early Christian type of church was merged with the domical Byzantine type which had originated further east.

Byzantine architecture has always been and still remains the official style of the Greek or Orthodox Church, which has conserved unchanged its doctrines and rituals. The architecture, therefore, also became stereotyped in form through all periods, in sharp contrast with the changes and additions which characterize the developments of medieval architecture, suiting it to varying requirements of church economy and ritual in western Europe.

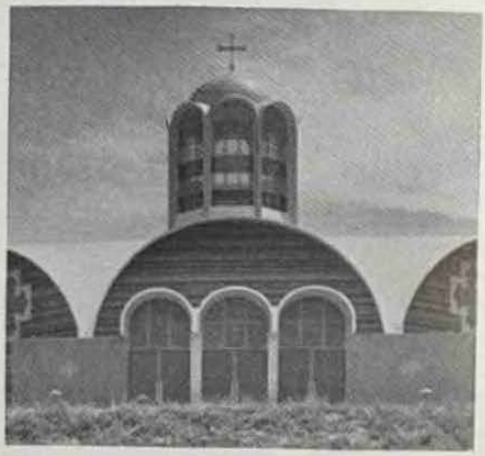
We read in Sir Bannister Fletcher's "History of Architecture" that "The domical method of construction governs the plan of Byzantine churches, which are all distinguished by a central space, covered with a dome on pendentives.

"Short arms on each side form a Greek cross and the filling in of the angles brings the plan nearly to a square. Opposite the entrance was the apse for the altar in the sanctuary, which was screened off by the characteristic "Iconostasis" with its three doors, and there were also lateral ritual chapels. The narthex formed an entrance vestibule and was frequently crowned with domes. The essential difference in plan between a Byzantine and an Early Christian church may be summed up as follows: Byzantine churches, unlike Early Christian churches with their campanili, had no bell-towers. The Byzantine church, because of the grouping of subsidiary domes round a central dome gives a vertical impression; for the eye is gradually drawn upwards towards the central culminating dome. The Early Christian church, because of the vista of columns, entablatures, and simple timber roof, gives a horizontal impression; for the eye is led along these horizontal lines to the apsidal sanctuary which is the important feature.

"Walls were usually constructed of brick and internally encrusted with rich coloured marbles and shining glass mosaics, which swept from wall to arch and arch to vault almost to the exclusion of mouldings and sculptured ornament. In this lavish application of colour to a flat surface all the oriental love of magnificence found full expression. Externally the walls were comparatively plain and depended largely for effect on the brilliant oriental sunshine which clothed them with a garment of glowing colour. The facades were often thrown into prominence by alternate layers or bands of brick and stone, reminiscent of the strata of a quarry. This simple device further accentuated the connection of the building with the ground in which it had its foundations.

"Arcades of semicircular arches were employed in churches, to support the galleries. Doors are usually spanned by semicircular arches but flat, segmental, and horse-shoe arches were also used. Windows, similarly spanned, are small and grouped together, while sometimes they are arranged in tiers within the semicircular arch beneath the dome. The encircling ring of windows at the base of the dome or in the "drum" upon which the dome was raised was often the chief source of light in the church. Windows were small, so as to make the interior restful and cool, in welcome contrast to the external glare of the Eastern sun, and consequently large unbroken wall spaces were available for brilliant mosaic pictures. Windows were also occasionally formed of a thin frame, 3 in. thick, of translucent marble, filled in with glass and creamy, golden-hued alabaster which the brilliant sunshine wrought into colour like stained glass.

"The method of roofing was by domes of brick, stone, or concrete, often with no further covering. The Byzantine practiced the system of placing the dome over a square or octagon by means of pendentives. Domes are of three types: (i) Simple, (ii) compound, (iii) melon-shaped. In the simple part of dome, pendentives and dome were part of the same sphere. A good idea of this type is obtained by halving an orange, cutting off four slices, each at right angles to the last, to represent the



four arches and then scooping out the interior; the portion above the crown of these semicircles is the dome and the intervening triangles are the pendentives. Such a form of dome is, however, rare, and perhaps the only example in Europe is that over the Tomb of Galla Placidia. The compound type of dome gives greater height and was of two varieties, in the first of which the dome ceased to be part of the same sphere as the pendentives, but rose independently above them and in the second the dome was raised on a high drum pierced with windows. The melon-shaped type of dome consists of curved flutings, as in S. Theodore and SS. Sergius and Bacchus, which avoided the necessity for pendentives.

"Mouldings were little used because the marble and mosaic wall linings ran continuously over the surface of walls and arches. Internally, decorative panels of marble and mosaic were sometimes framed in billet mouldings, probably derived from the Classic dentil course, and flat splayed mouldings, with incised ornament, were also used. Externally the simple treatment of walls in flat expanses of brickwork, with occasional stone banded courses, did not leave the same scope for mouldings in other styles. Flat stone bandings flush with the wall surface were used instead of string courses and cornices.

"The scheme of ornamentation was elaborate in the extreme for internal walls were lined with costly marbles with veining carefully arranged to form patterns, while vaults and upper walls were sheathed with glass mosaic pictures of symbolic figures, groups of saints, the peacock as the emblem of immortal life, the endless know as the emblem of eternity, and the sacred monogram of Christ. Byzantine pavements of many-coloured marbles and mosaics were carried out in great variety of patterns such as 'opus sectile' and 'opus Alexandrinum,' and thus the general colour-scheme was carried throughout the church over floor, walls, arches, and vaults. Mosaic in small cubes was used broadly as a complete lining to brick structures, and mouldings were replaced by decorative bands in the mosaic. Greek rather than Roman technique was followed in the carving, on account of the Greek origin of Byzantine craftsmen. A special character of the carving was due to the use of the drill instead of the chisel. The acanthus leaf, deeply channeled and of V-shaped section, was adopted from the Greek variety, but became more conventional in treatment with acute-pointed leaves drilled with deep holes at the springings.

"Figure sculpture was not allowed by the Greek Church, as it was held to savour of idolatry, and so this was an additional reason for the Byzantine type of decoration which expressed itself in flat-coloured pictures and not in raised sculptured figures."

While the Byzantine Church presented an external appearance of great dignity resplendent with shades and shadows cast by its circular forms, it was in reality a place of an inner architecture.

This architecture focused its attention on the sanctuary outlined in candle light and/or by light filtered through transluscent mosaic openings. This was an inner place of worship shut off by thick walls from the outer world.

While building styles changed, for centuries the Byzantium form of architecture has persisted, one significant reason for this being that until very recent times building techniques changed very little.

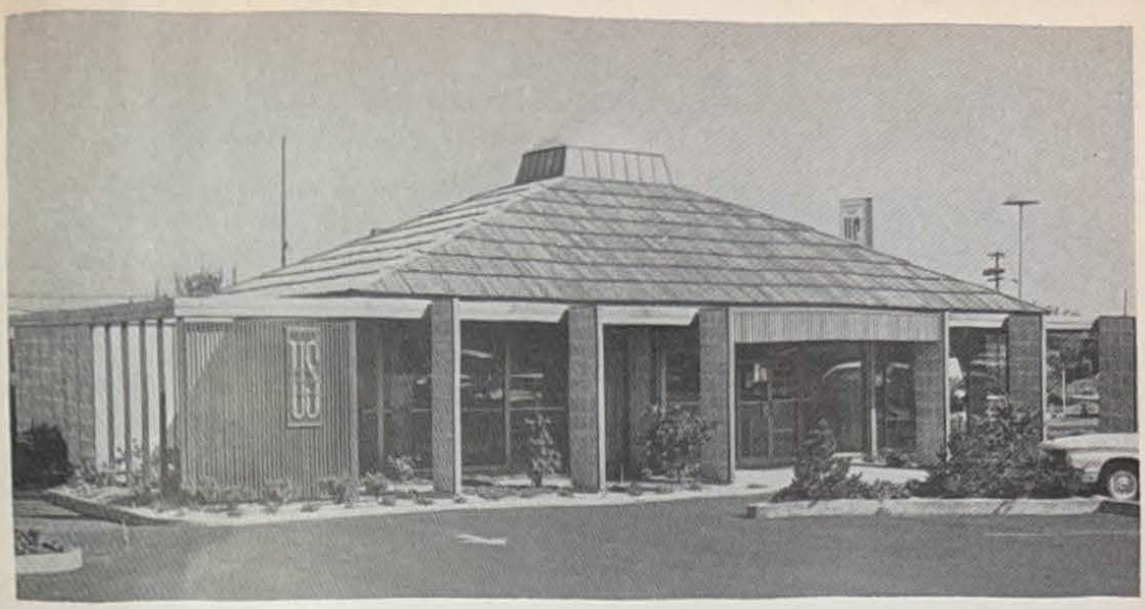
Now, practically all of a sudden, history-wise, construction methods have changed markedly. Long-span steel trusses, cables, thin-shell concrete provided easier and more direct construction.

St. Demetrios reflects this change in techniques but its plan form follows traditional dimensions and requirements. Its parts respect the ritual of the ancient church. Its silhouette, materials and general appearance are Byzantine. Yet its form and construction represents the Twentieth Century, a new Byzantine in keeping with today. Where in ancient times the domes were constructed one brick upon another to the very crown of the building, St. Demetrios' lantern was precast on the ground and raised in its entirety into place with a crane.

Provisions are made for the embellishment of the church with mosaic walls and window openings—for frescoes and other ornaments to meet traditional Byzantium standards and to emphasize the House of God.

All this is in keeping with the spirit of the church and should be an inspiration for the congregation to continue its efforts toward perfecting St. Demetrios buildings in the years to come.

"One stone upon another" becomes precast raised with a crane



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Wood Finish: Olympic Stain.

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McEwan Photos

SUNNYSLOPE BRANCH BANK
U. S. National Bank of Portland

Salem, Oregon

Groom, Blanchard & Lamen, architects

Willis A. Hill, general contractor

HANDSOME "CORPORATE IMA

SELDOM DOES A BUILDING so perfectly achieve through its architecture the precise goals established for it by its designers, as does this office in a southern California industrial area.

While the primary purpose was to provide an attractive and efficient working environment, the secondary goal of nearly equal importance was the creation of a suitable appearance to enhance a corporate image and at the same time establish an uplifting example for future additions to the industrial park.

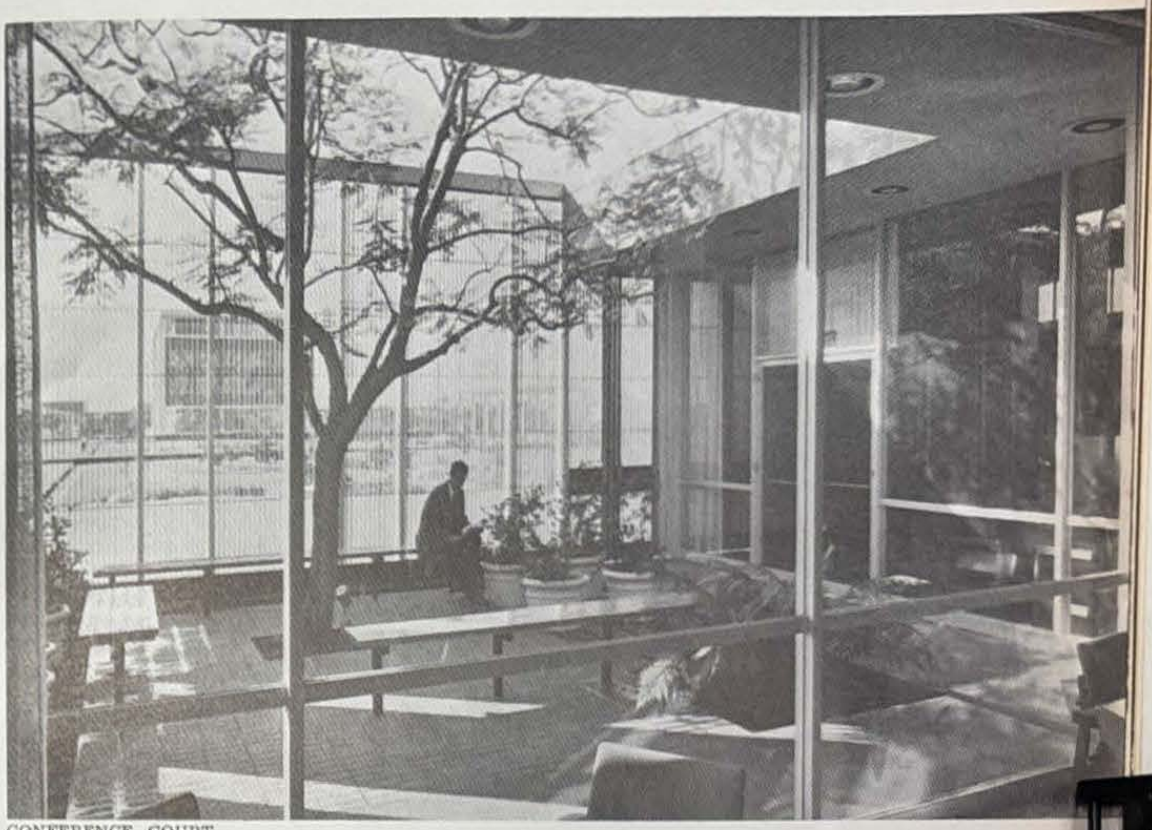
The architect used simple but striking forms, and selected unadorned materials to create an aesthetically pleasing visual experience without compromising the suggestion of efficiency and strength that was considered important to the corporate image. The architectural vocabulary of the main office building—repeated again in an adjoining library building which was a gift of the company to the community—accurately reflects the purpose and function of the buildings without resorting to purely decorative or sensuous design.

While the frame is steel and concrete, aluminum was used for nearly every imaginable purpose: exterior and interior columns; exterior window walls; mullions, sills and head trim of interior partitions; framework of suspended ceiling grids; handrails; exterior lighting fixtures and walk lights; nosing on exterior steps; flagpoles; mullions and roof of service area screen, all are aluminum—used because of low cost, ease of maintenance and adaptability to the design concept and color scheme.

The buildings present a strong appearance of black, gray and aluminum, striking in the California sunlight (whereas they might be depressing in a grayer atmosphere). Black spandrel and clear plate glass are Libbey-Owens-Ford; the gray glass is American-St. Gobain. Aluminum principally is by Olin Mathison.

The library, shown below at right, repeats in line and material the design concept of the main office building. Gin Wong was partner in charge for the architect; Johnson & Nielson, the structural engineer. Landscaping, which adds much to the effort to create a pleasing attitude in the midst of industry, was by Robert Herrick Carter.

ROVIDES PLEASING WORKING ENVIRONMENT



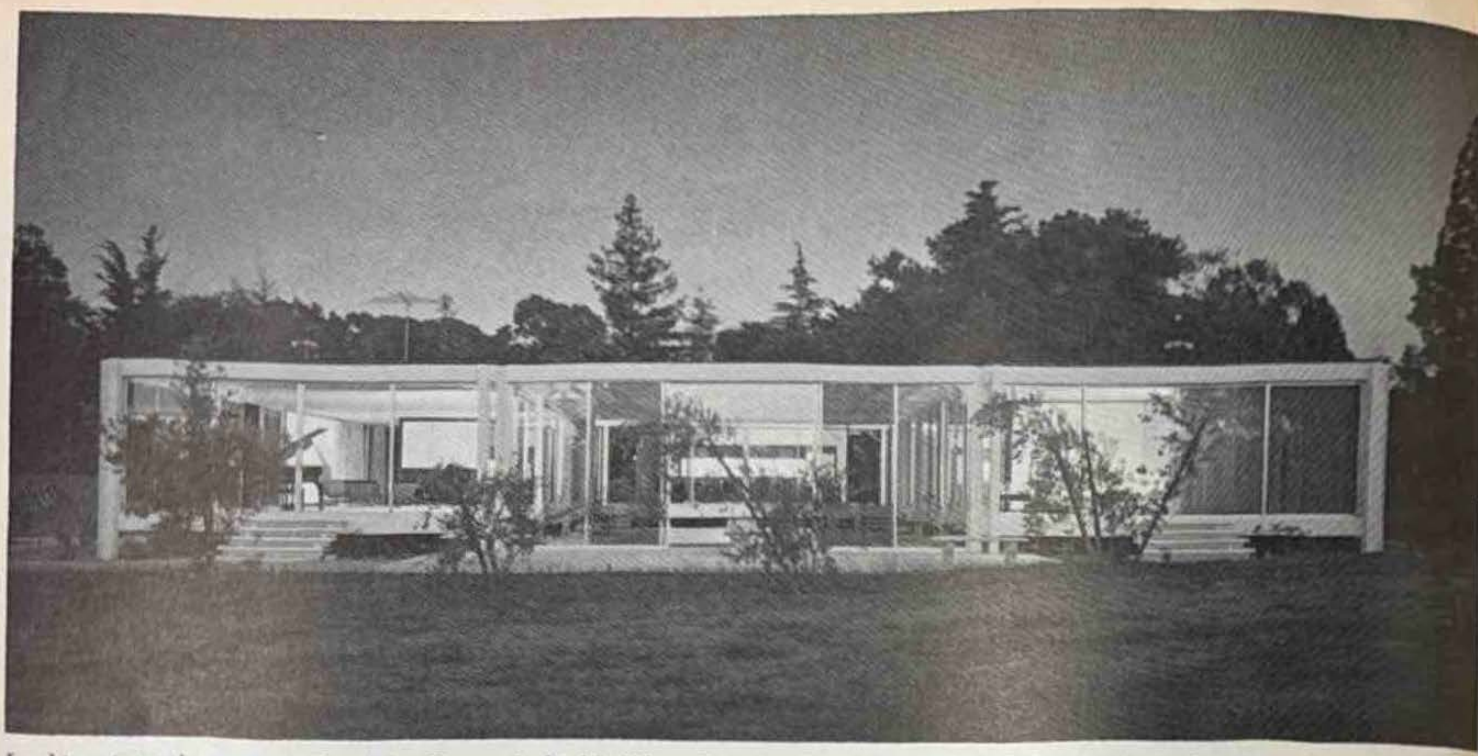
CONFERENCE COURT

LIBRARY

Julius Shulman Photos

OFFICE BUILDING—LIBRARY, Hunt Foods and Industries, Inc., Fullerton, California

William L. Pereira & Associates, architects • Lindgren & Swinerton, Inc., general contractors

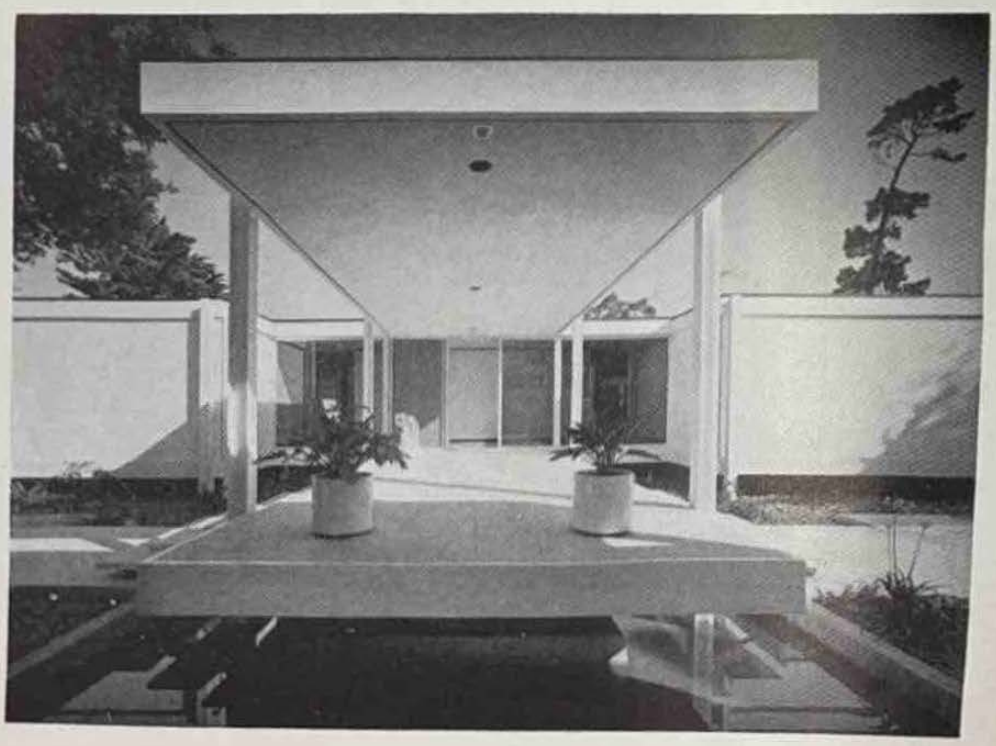


Looking into the open end of the U, pool shielded by glass in the center. View below is from the opposite side, looking into the entry from the carport.

Home Is a Hovering Pavilion

DAPHNE RESIDENCE
Hillsborough, California

Craig Ellwood Associates, designer
Robert Marks, structural engineer
Arthur Brothers, general contractor

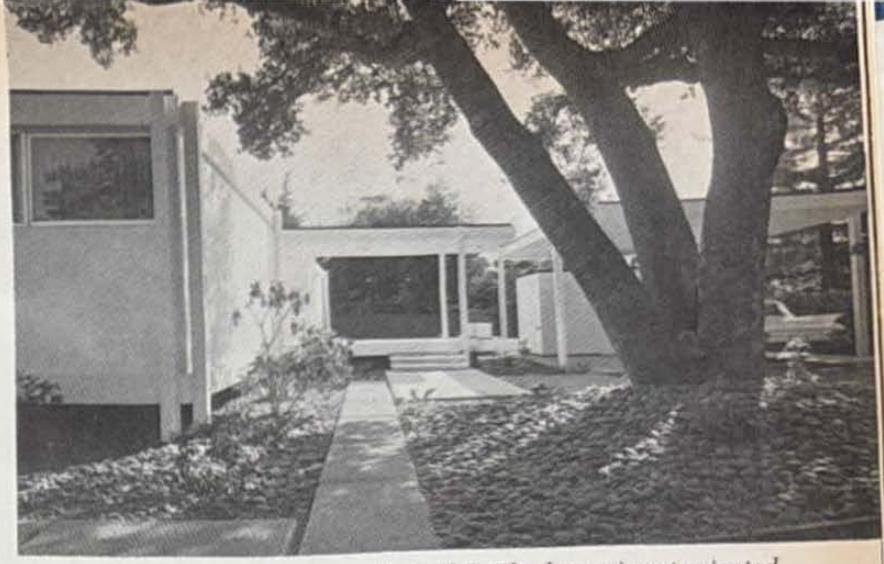


THIRTY-TWO steel columns around the perimeter support this gleaming white jewel of a home that seems to hover above the ground and above the swimming pool that is its core.

The structure is U-shaped around the pool and is rather unique in method: The floor is concrete slab on fill, but cantilevers three feet beyond its footings to give the hovering effect, ending in 12-inch steel channels at the sill. The function of the columns then becomes meaningful, and the effect is strengthened by recessing the walls behind the columns so that they have form and shadow detail. Wood roof joists frame into 12-inch channel fascia above.

Walls, interior and exterior, are white plaster, Pentelic white marble, and gray glass, the latter fitted with both conventional and sliding draperies. Floors are white terrazzo. White plastic laminate is used extensively. The kitchen (below) is framed in solid chromed-steel bars with walnut in-fill panels and plastic laminate counter top.

The pool, which is practically a way of life for this family, is a part of the house, but by being situated below the floor level it does not obtrude upon other functions of living as do so many in-house pools.

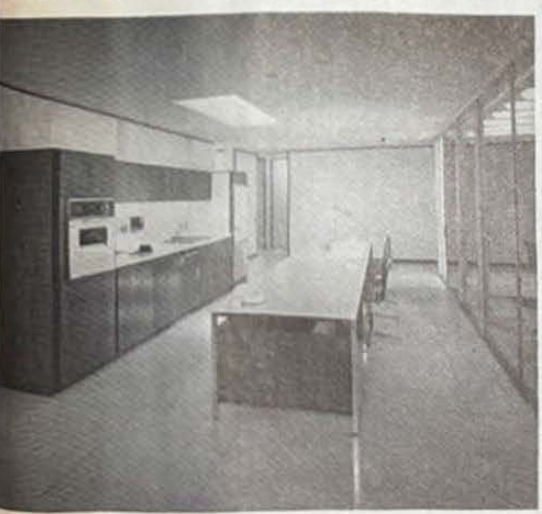


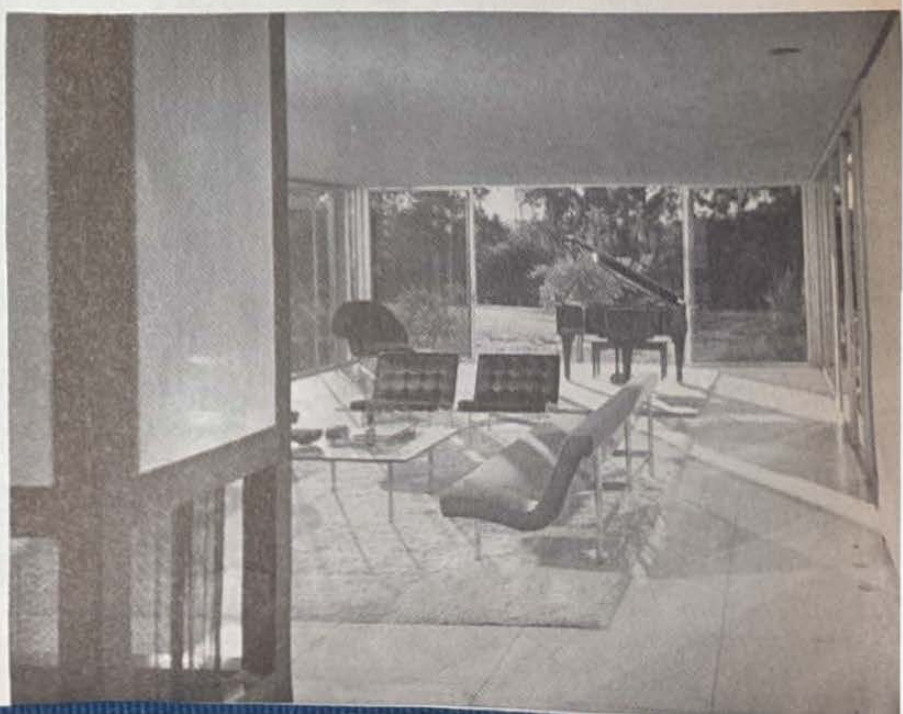
Approach to the "front" is from the "side". The house is not oriented to a street in the conventional manner.

Morley Baer Photos

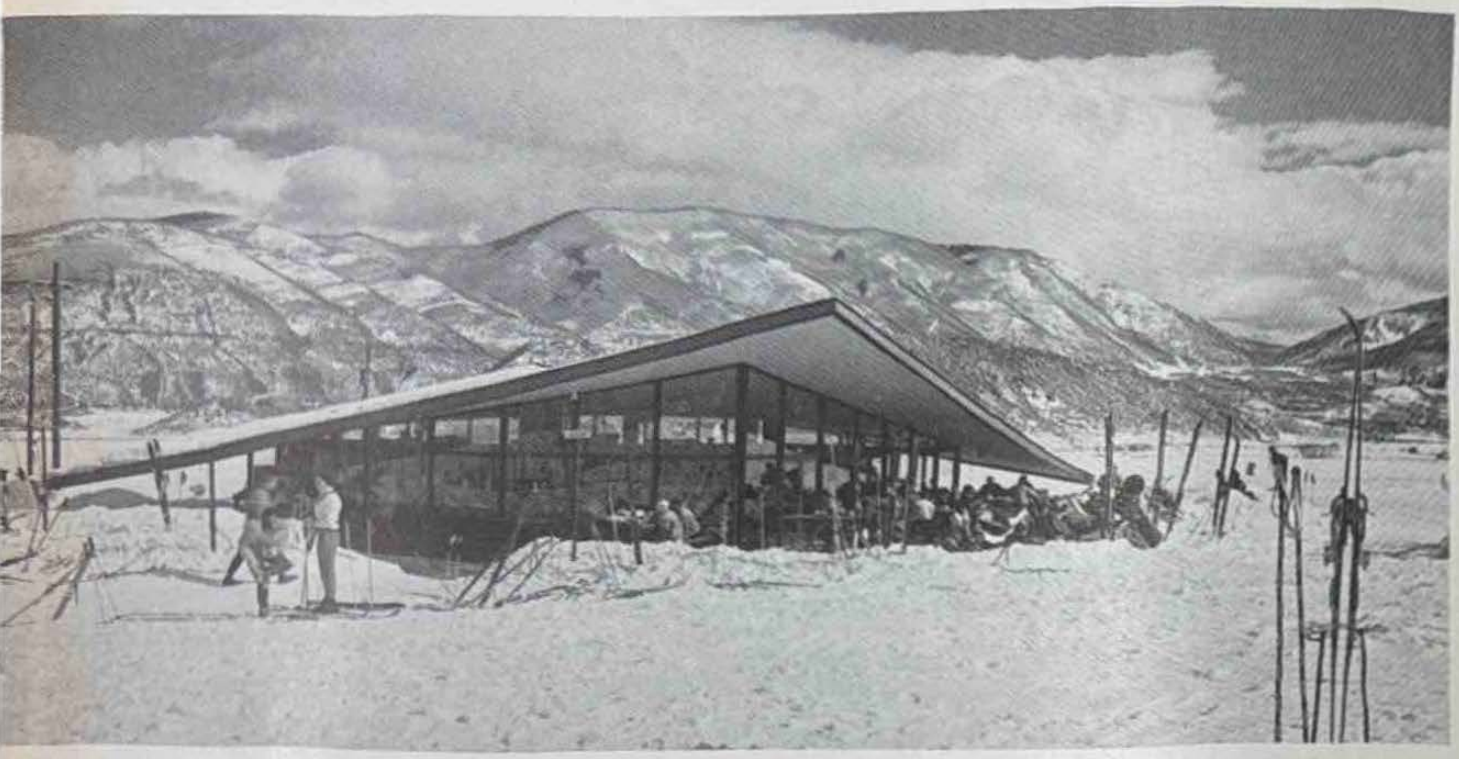
Pool, nearly three feet below floor level, is more easily cleaned, does not obtrude on the living areas. Fireplace below is framed in 4-inch steel angles.

Kitchen framed in chrome, with oiled walnut and white plastic in-fills. All ceilings are acoustical plaster.





BUTTERMILK SKI LODGE, Aspen, Colorado • Jack Walls, designer



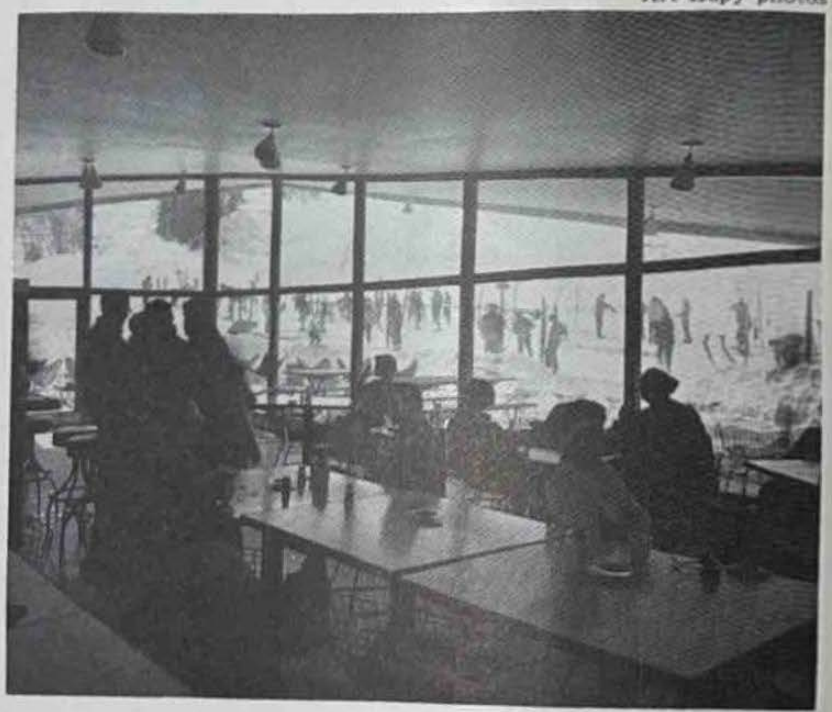
Hyperbolic Plywood Shell Tied To Two Buttresses

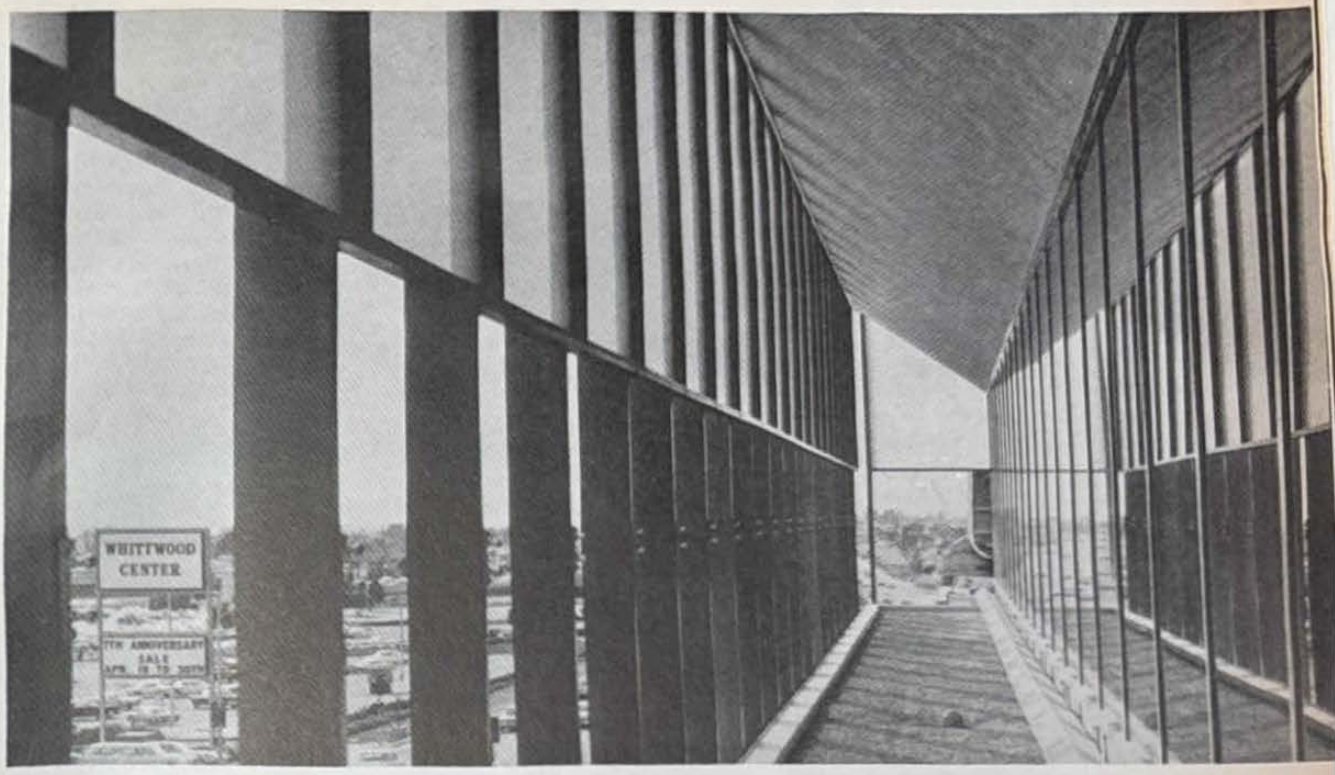
ONE OF THE LARGEST plywood roof shells in the United States, built to withstand snow and wind, has proved itself dramatically. An explosion that blew out all of the sidewalls, left the roof unscathed, ready for rebuilding of the walls.

This is a ski hut enclosing 2,285 square feet on the main level under a hyperbolic paraboloid 64 feet square supported at only two point, concrete buttresses, where the clear span measures 90.5 feet. The shell is six layers of fir plywood, 3/8 to 1/2 inches thick for a total 2½ inches in thickness. A steel channel bolted to the outside edge serves as fascia and transfers all stresses to the buttresses. Since the roof flexes when loaded, all connection between roof and curtain walls are designed with slip joints.

The lower level of 824 square feet houses storage and ski repair shop. The upper level is restrooms, kitchen and restaurant, the latter outfitted with Knoll furniture. Structural engineers were Sallada and Hanson; John Scott, general contractor.

Art Hupy photos





Translucent glass sunscreen, left, 45-degree soffit above, windows at right.

By day and by night

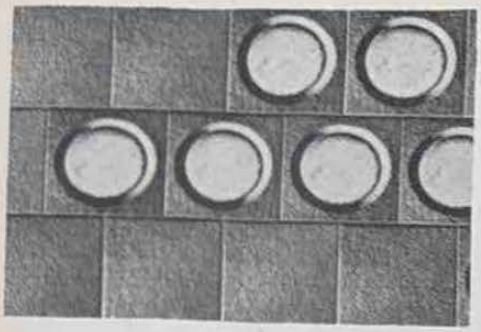
HORIZONTAL BANDS of translucent glass on all sides and all five floors of the new American Savings & Loan Association building in Whittier, Calif., were developed primarily to serve as sunscreens but have in effect created almost the entire design vocabulary of the structure.

The rather unusual concept of sun control consists of panels of American-St. Gobain "Huewhite" glass held in bronze colored aluminum frames four feet out from a continuous full height grey plate glass window wall. The combined diffusion of daylight and screening of sun and sky glare is effective and yet allows relatively unobstructed views of adjacent wooded hills and sea vistas as distant as Catalina Island.

At night, strip lighting at floor level below window sills is bounced off a 45-degree soffit over the area between window wall and screen, and thus through the translucent panels, producing illuminated bands that define and identify the structure.

Architect for the 60,000-square foot, $1,360,000 building is Kurt Meyer & Associates. Structure is fireproofed steel frame, with grey German Imperator granite facing on the first floor. General contractor was Diverco Constructors, Inc.

One further aspect of the sunscreen system has earned the gratitude of window washers. The graveled floors of the spaces between windows and sunscreens serve as walkways for simplified washing of the window wall.



intermix intaglios

Two completely opaque textured units, ceramic finish simulating masonry, have been added to the Intaglio line of glass building units. Designed to complement the original line, the concrete-gray opaque finish allows a homogenous surface when used together, and is said to heighten the contrast in surface and color of the pattern glass. Permanence of the finish is assured by high firing. Weathering tests have shown that finish cannot be damaged by acids, alkalis, sulphides or abrasions and will hold color. Available in two sizes. —Pittsburgh Corning Corp. (A/W), One Gateway Center, Pittsburgh 22.

Lotus locks

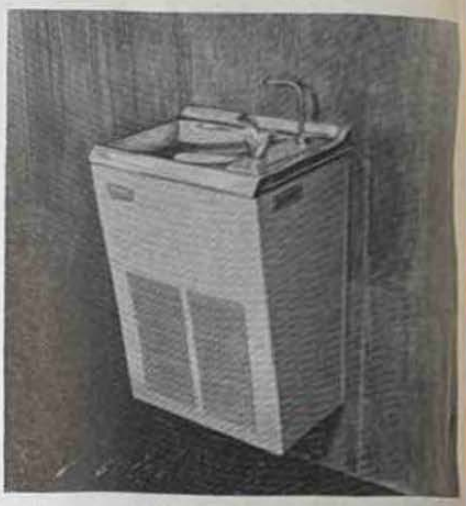
An imaginative example of metal styling with its fluted knob, the new Lotus design is a complement to design accessories in homes and apartments. Available in a variety of jewel-like decorator finishes, the new oxidized brass finish provides depth and dimension. Knob size is 2-in., rose, 2 and 9/16 in. diameter.—The Schlage Lock Co. (A/W), 2201 Bayshore Blvd., San Francisco.

decorative and functional

A Design Unit, cast of lightweight, lifetime aluminum is versatile, practical, decorative and functional for use indoors or out as grilles, panels, sunshields or screens. Units are effective used as room dividers and office partitions. As space separators the openwork design divides without seeming to enclose, permitting free flow of light and air. They are an appropriate background for any style of furnishings and mix easily with all decor periods. Each unit is 12-in. square with overlapping edges that bolt together. Four patterns in wide range of colors.—Tennessee Fabricating Co. (A/W), 1490 Grimes, Memphis, Tenn.

scrubbable ceilings

Cirrus, a new molded ceiling board, is completely scrubbable. All surfaces are dirt and soil resistant but can be cleaned with brush and detergent when necessary. The moisture-proof quality makes Cirrus suitable for commercial use where high humidity or steamy vapors are present as in kitchens, laundry rooms, locker rooms. Special flange construction on all edges eliminates hold-down clips. Available in 2'x2' and 2'x4' panels to fit most standard grid systems, Cirrus is incombustible and will not support flame.—K-Lux Products Div., K-S-H Plastics, Inc. (A/W), 10212 Manchester, St. Louis 22, Mo.



hot and cold

Now available, the new "hot and cold" water dispenser has the same advantages as a wall-mounted design. Model HWT A-12H is an addition to the series of wall-mounted electric water coolers. The service provides greater convenience for coffee breaks, with hot water readily available. This model provides 60 six-ounce cups of 175° water per hour, 12.2 gallons per hour of cool 50° drinking water, adequate for 146 persons under normal office conditions. — Haws Drinking Faucet Co. (A/W), Fourth and Page Sts., Berkeley, Calif.

cloak and hatter

Introduced for office, home, apartment and motel use, the new-design floor suported portable wall wardrobe holds up to four full length coats and two hats. A lower shelf accommodates two umbrellas, with space for boots, briefcases and packages. Front measures 27x75½-in. tall. Self-balancing feature holds unit against wall with no installation or wall fastening necessary. Available in walnut or choice of ten vinyl fabrics. — Design San Francisco (A/W), 600 Beach St., San Francisco.

KAHALA HILTON HOTEL
Honolulu, Hawaii

Architects
Killingsworth, Brady, Smith & Associates, Long Beach, California

Main Roof: GACODECK Neoprene

Walking Deck on Concrete

Lobby Roof: GACOFLEX Hypalon over Neoprene on Concrete

Applicator: Merritt Laws Roofing Co. Honolulu

Gacoflex Neoprene-Hypalon Elastomeric Roofing Systems

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GACODECK* offers an elastic, waterproof, tough, decorative, skidproof and lightweight WALKING DECK for apartments, motels, homes, offices and factories. * Pat. Pend.

GACO WESTERN, INC. **4429 Airport Way S., Seattle, Wash.**

Hobart Bros., San Francisco — *Wm. Barrick & Assoc., Los Angeles*
United Materials Inc., Denver — *Masons Supply Co., Portland*
Superior Roofing Co., Salt Lake City — *Safway Scaffold Inc., Spokane*
J. P. Glowenke Co., Honolulu

watertight shower doors

Designed to fit tubs that measure 5-ft. and 4-ft. 6 in., Amarlite anodized aluminum tub enclosures have nylon rollers that operate on overhead tracks permitting doors to glide freely and smoothly. Shower doors are equipped with a continuous piano-type hinge to promote water tightness and prevent sagging. A vinyl seal and continuous drain cap at bottom help to keep warmth and water in shower. —Amarlite Division (A/W), Anaconda Aluminum Co., P.O. Box 1719, Atlanta 1, Georgia.

acoustically engineered chairs

To overcome the old problem of random sound reflection in auditoriums and related indoor facilities, created by seats and backs of rigid materials, a new series of Model 2000 Auditorium chairs has been developed. Acoustically engineered, the chairs will absorb a large part of sound normally reflected by conventional auditorium seating by use of selected fabrics with property to let sound pass through material instead of reflecting; the use of acoustical perforations in bottom seat panel and back support and the use of internal cushioning material, high in sound absorption efficiency. Supplied in all types of floor and riser mounts.—Arlington Seating Co., (A/W), Arlington Heights, Ill.

out of the corners

Long consigned to obscure corners, telephone booths decorative as well as functional, are becoming important units of interior decor in public places. Basically, booths are three-sided units mounted on legs and pedestals, or fastened to walls. Luggage and packages can be kept close by. Despite airy, open construction, booths are sound proof. Service and maintenance problems have been minimized because of the use of stainless steel, 20 to 30 lbs. to a booth, immune to markings, beverages, doodlers.—Burgess-Manning Co. (A/W), Libertyville, Ill.

storm-defying windows

Featuring an exclusive Pressure Equalization Slot, Sealair windows have demonstrated exceptional performance against water and air leakage even under simulated hurricane conditions. Designed for commercial and monumental buildings, the window's triple weather guard includes the equalization slot, complete neoprene weather sealing, integral drip member. The equalization slot runs the entire width of the window, allowing air pressure within the extruded window frame member to achieve balance with pressure outside the building, resulting in no siphon action, no head of water, no leakage. Independent tests have confirmed manufacturer's statement concerning storm-defying construction. Sealair windows are offered in projected, casement, tophinged and pivoted styles, and in a choice of Kalcolor, light or medium bronze, black and Alumilite.—Kawneer Co. (A/W), Niles, Michigan.

pastel walls and roofs

Modern appearance and maintenance safeguards are combined in the new Hi-Rib series of pastel wall and roof panels. Panels are pre-engineered and pre-cut to run full height of building, reducing unsightly multiple laps, and providing protection against water leaks. Panels have an exclusive weather-tight double lap which when joined with another sheet covers two ribs, each with special drain to prevent capillary action. Three-coat paint applications of epoxy and acrylic paints are applied on top of zinc coated steel, adding life to building and providing attractive appearance. Eight colors can be used individually, in combinations for wall and roof designs or for trim accent. White for inside is used for interior brightness.—Soule' Steel Co. (A/W), 1750 Army St., San Francisco.

Forum is new

The newest of the Vicrtex vinyl wall-covering patterns, Forum, captures the classic spirit and subtle shading of fine marble, and is available in a selection of eight colors. Vicrtex now has more than 50 standard patterns and a wide range of handprints over standard patterns.—L. E. Carpenter & Co. (A/W), Empire State Bldg., New York 1.

safetywalk grating

A stronger, lightweight metal grating, Safetywalk's unique weight-to-strength ratio is a triple rib design. The one-piece, 18-gauge steel is formed with three bracing channels along the length of the grating permitting application as a catwalk or walkway on broad expanses such as floors or platforms. Snow and ice drain through specially constructed weep holes in each channel, maintaining anti-slip qualities under adverse conditions. Safetywalk is quickly and easily weld-fastened and may be slit along the valley of the channels to reduce the 18-in. width to 6-in. or 12-in. widths.—United States Gypsum Co., Dept. 119 (A/W), 300 W. Adams St., Chicago 6, Ill.

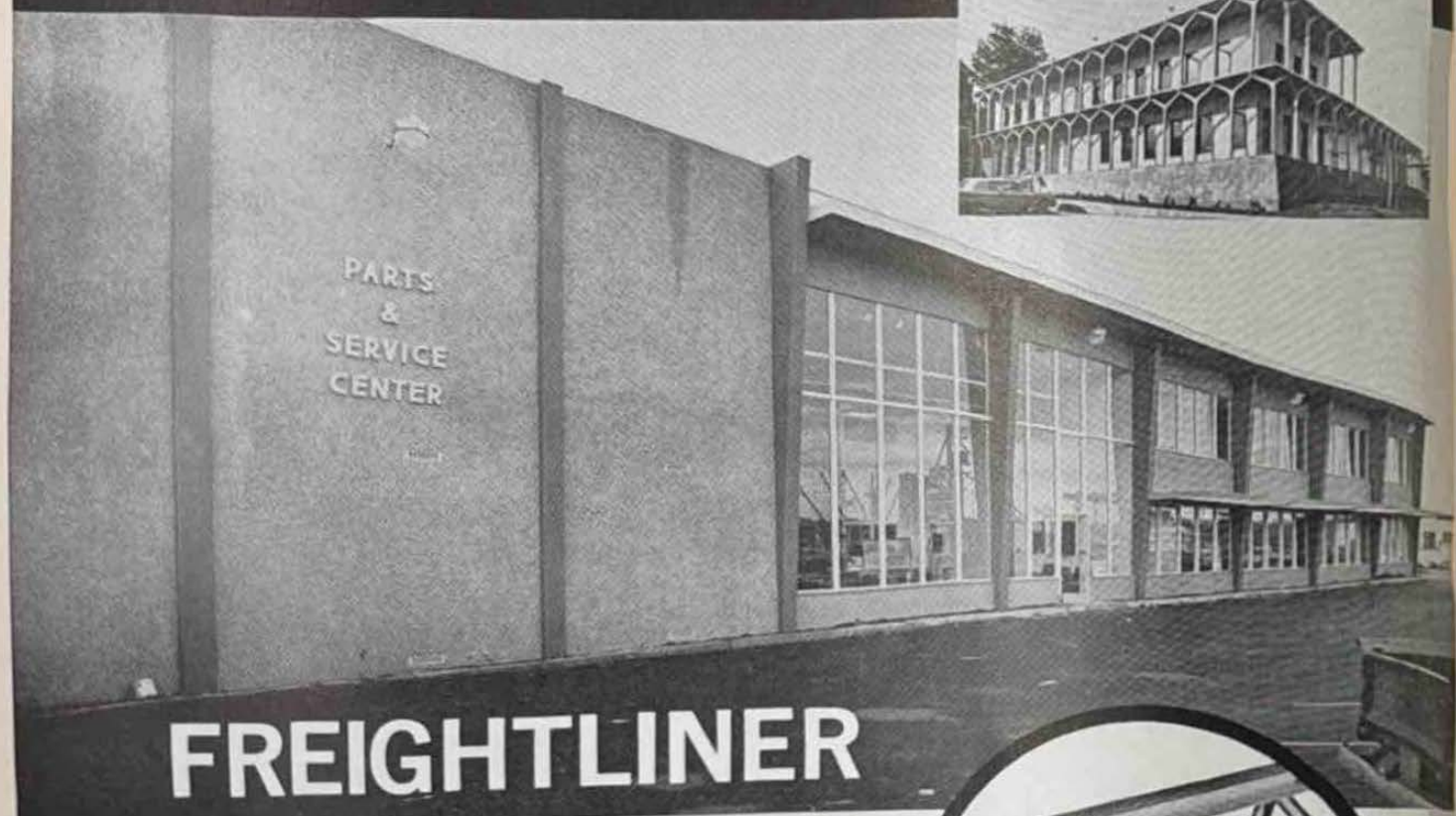
collector's group

To meet the consistently increasing demand of interior designers for wider variety and higher standards of illumination in Early American lighting fixtures, the newly introduced Collector's Group is authentic in scale, color, detail and materials. Included in the new groupings are Traditional, an adaptation of an original from the world famous Winterthur Museum, in fruitwood, accented with brass and black wrought iron; Provincial, a hand-crafted antique brass with a weathered "Old Frontier" appearance; Informal, designed to meet the needs of most any location or setting, with fixtures of fruitwood and weathered brass and shades giving an opal glass look.—Lightolier (A/W), 346 Claremont Ave., Jersey City 5, N.Y.

More and MORE OFFICE BUILDINGS

Discover the Advantages and Economies of

TRUS-JOIST



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Moffatt, Nichol & Taylor Engineers

"Trus-Joists have been used as the basic framing unit of the two-story office building at the Freightliner Sales and Service Plant, Portland, Oregon. The decision to use these units was based on the following factors:

1. Comparative structural studies indicated that Trus-Joists were an economic solution for both the second floor framing and the roof framing.
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3. The units can be placed rapidly by two carpenters. The connections to other building elements are simple."

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SAN BERNARDINO—Amco Distributors
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SAN DIEGO—Lentz & Barnhart, Inc.
Box 727, HO 9-4961
SAN FRANCISCO—Brookman Company
2833 Third, VA 6-7500
SANTA BARBARA—Backman Building Specialties
234 East Gutierrez Street, WO 3-1459

COLORADO
DENVER—General Building Service
295 Knox Court, 936-0169

IDAHO
BOISE—(Sales & Mfg.) Trus-Dek Corporation
West Highway 20, Box 1496, 375-4450
IDAHO FALLS—Wayne D. Josephson
Route 3, Box 4, JA 2-8150

MONTANA
BILLINGS—Timberweld Manufacturing
2402 Sixth Avenue N., 252-7119

NEBRASKA
OMAHA—Gibson Architectural Products
1204 North 60th

NEVADA
LAS VEGAS—Hardware & Specialties, Inc.
301 South Highland, 384-2040
RENO—Bonanza Construction Specialties, Inc.
116 Linden Street, FA 9-8628

NEW MEXICO
ALBUQUERQUE—Engineered Wood Products
902 Morningside Drive, N. E., AL 6-2058

OREGON
PORTLAND—(Sales) Construction Components, Inc.
2041 S. W. 58th Avenue, 223-3674
PORTLAND—(Mfg.) Northwest Trus-Joist, Inc.
2530 S. E. Steele, BE 4-0218

UTAH
SALT LAKE CITY—Morrison-Merrill & Co.
Box 1530, EM 3-2611

WASHINGTON
SEATTLE—Construction Components, Inc.
420 First Avenue West, AT 3-0958
SPOKANE—Bresemann Inland Trus-Joist Co.
Box 822, FA 7-2245

WISCONSIN
MILWAUKEE—C. B. Euwema
10031 West Lisbon Avenue, HO 6-3135

WYOMING
CASPER—Western Construction Supply Co.
Box 1703, 234-3575

MANUFACTURERS/SUPPLIERS

• **Pacific Column Co.:** The new Los Angeles firm, a division of Pacific Coast Engineering Co., Alameda, has been franchised by the Fire-Trol Corporation, Chicago, to fabricate and deliver to building sites the prefabricated fireproof steel columns. John Farrell will handle sales from the new location at 1417 Georgia St.

• **Hiebert, Inc.:** The Torrance, California, furniture and interior design manufacturer, has formed a new Design and Layout department offering complete interior designing for architects, decorators and dealers. The new department will be directed by Jose Ma. Rodriquez, until recently president of his own manufacturing facility and interior design studio in Havana, Cuba.

• **Builders Brick Co.:** Mutual Materials Division has created a new position, sales coordinator for all branch areas, and appointed Chuck Bakeman to this position. At the same time, announcement was made of the advancement of Frank Steffen to sales director of commercial sales.

• **Soule Steel Co.:** Christopher Pettibon has been appointed sales manager, special projects, for the steel structures division. While continuing as manager for the San Francisco district, he will service national accounts outside the eleven western states.

• **Febco, Inc.:** Manufacturers of automatic remote control systems for lawn and turf irrigation, the firm has moved into a new plant at 9121 Glenoaks Blvd., Sun Valley, California. Provisions have been made for continued growth during the next ten years.

• **Filon Corp.:** Appointment of Sylvin Z. Perry as national sales and marketing manager has been announced by the Hawthorne, California manufacturing firm. C. E. (Sam) Bass has been named his assistant for sales.

• **Armstrong Cork Co.:** A new Industry Products Division has been formed, combining the Industrial and Insulation Divisions to provide greater concentration on similar marketing aims. J. A. Crawford has been named manager of the new Los Angeles division, and B. B. Hoff, manager at San Francisco.

• **Michael Flynn Mfg. Co.:** Honolulu Iron Works has been appointed as sales representative for the Lupton line of aluminum and steel windows and curtain wall. Headquarters of the firm are in Honolulu but they will also be responsible for sales throughout Hawaii, the Marianas and other Pacific islands.

• **Union Lumber Co.:** H. Pierson Plummer, vice president, has been appointed by Secretary of Commerce Luther Hodges to the American Lumber Standards Committee, to fill the vacancy left by the death of Carl W. Bahr, vice president of sales, The Pacific Lumber Co.

• **Riverside Cement Co.:** Joseph J. Waddell, concrete expert and author of a new book on quality control of concrete, has joined the Los Angeles company's technical services department.

associations

• **Insulation Board Institute:** Robert A. Costa, vice president and assistant general manager, Kaiser Gypsum Co., was re-elected president of the Institute at the Chicago mid-October meeting. The newly elected IBI Executive Committee includes J. L. Wetherby, Jr., merchandising manager, insulating and acoustical products, Simpson Timber Co., Seattle.

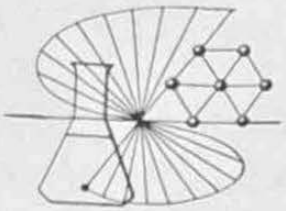
COSTA

• **California Redwood Association:** Stanwood A. Murphy, president of the Pacific Lumber Co., has been elected president of the association, succeeding Julian N. Cheatham, vice president of the Georgia-Pacific Corp. Re-elected were Philip T. Farnsworth, executive vice president; Arch O. Lefors, secretary, and Martha Berg, treasurer. Other members of the Board of Directors include Mr. Cheatham, Russell Ellis, president of Willits Redwood Products Co.; C. Russell Johnson, president of Union Lumber Co.; Howard A. Libby, president of Arcata Redwood Co.; and J. L. Robins, vice president-marketing, Simpson Timber Co.

• **Architectural Aluminum Manufacturers Association:** George Radford, president of Radco Products, Inc., Santa Maria, has been elected president of the national association. L. G. Bennett, Jr., vice president and general manager of the Walker-Lujon Corp., Burbank, was elected to the board of directors.

• **Portland Cement Association:** Edward Mangotich has been appointed district engineer in Arizona, replacing George M. Petzar, recently named the Association's Western Regional Manager. James D. Harpster has been named public relations representative for the association in the five-state Rocky Mountain region. He will headquarter in Denver.

FRESH!



IMAGINATIVE USE OF STIMULATING MATERIALS

You can select distinctive Haws fountain designs that keep pace with your *own* architectural ideas. They're fresh! Here are a few for your appraisal: detailed specs are yours for the asking.

Fiberglass

HDFC electric water cooler, AIR COOLED! Semi-recessed wall model, molded in strong fiberglass. In 3 colors or white.

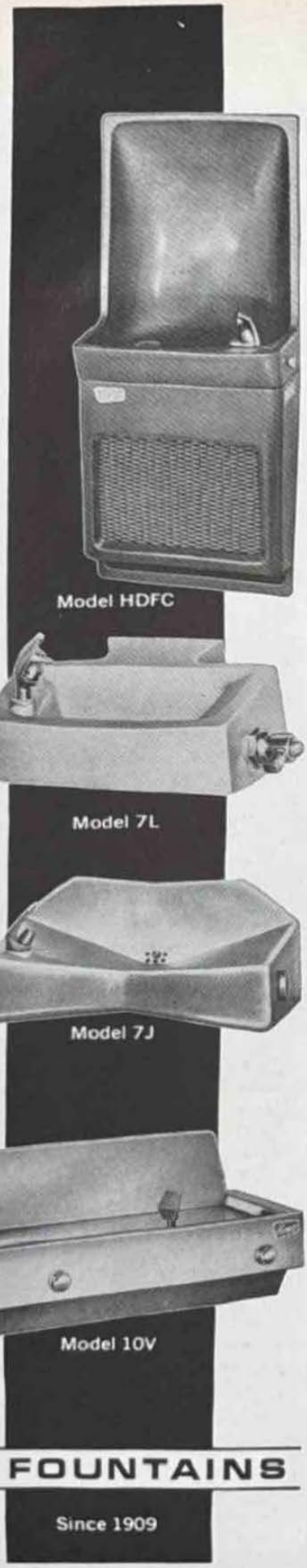
Hard Anodized Aluminum

7L wall fountain in cast Tenzaloy aluminum, hard anodized to rich bronze finish that stands up under rough usage. Here's a real beauty: and practical, too!

7J wall model with same hard anodized finish as 7L, above. Features Haws easy-action push-button valve.

Stainless Steel

10V multiple wall fountain, *new* from every angle, featuring push-button valves.



HAWS DRINKING FOUNTAINS

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Since 1909

FILMS

Specifier's Market. Western Pine Association, 510 Yeon Bldg., Portland 4, Ore. Color slides, 10 min., recorded narration.

Helps specifiers take advantage of new opportunties as greater volumes of framing in the Western pine region species reach the markets. The slides cover the six questions most commonly asked about the selection of framing grades and species.

More Profits for Builders. Beaver-Advance Corp., Ellwood City, Pa. Sound, color. 16mm, 20 min.

Shows basic scaffolding setup and how it is used in all kinds of construction and maintenance work across the nation.

Open World Schools. Libbey-Owens-Ford Glass Co., Public Relations Dept., 811 Madison Ave., Toledo 2, Ohio. 30 min.

Stresses importance of planning schools so classroom may be opened to outside world to provide proper atmosphere for learning. Educational and psychological impact school design has on student is shown. Covers original cost, maintenance, operating costs, safety standpoint in using glass for natural daylight combined with fluorescent lighting.

Suburban Living. International Film Bureau, Inc., 332 S. Michigan Ave., Chicago 4, Ill. 16mm. 60 min.

Six solutions that give a penetrating look into what can be achieved in a community if thoughtful planning is carried to completion as these actual examples, in use today. Conflicting opinions are presented and discussed.

Report on Fountain Design. Kim Lighting & Manufacturing Co., Inc., 1467 N. Lidcombe Ave., El Monte, Calif. Color. 24 min.

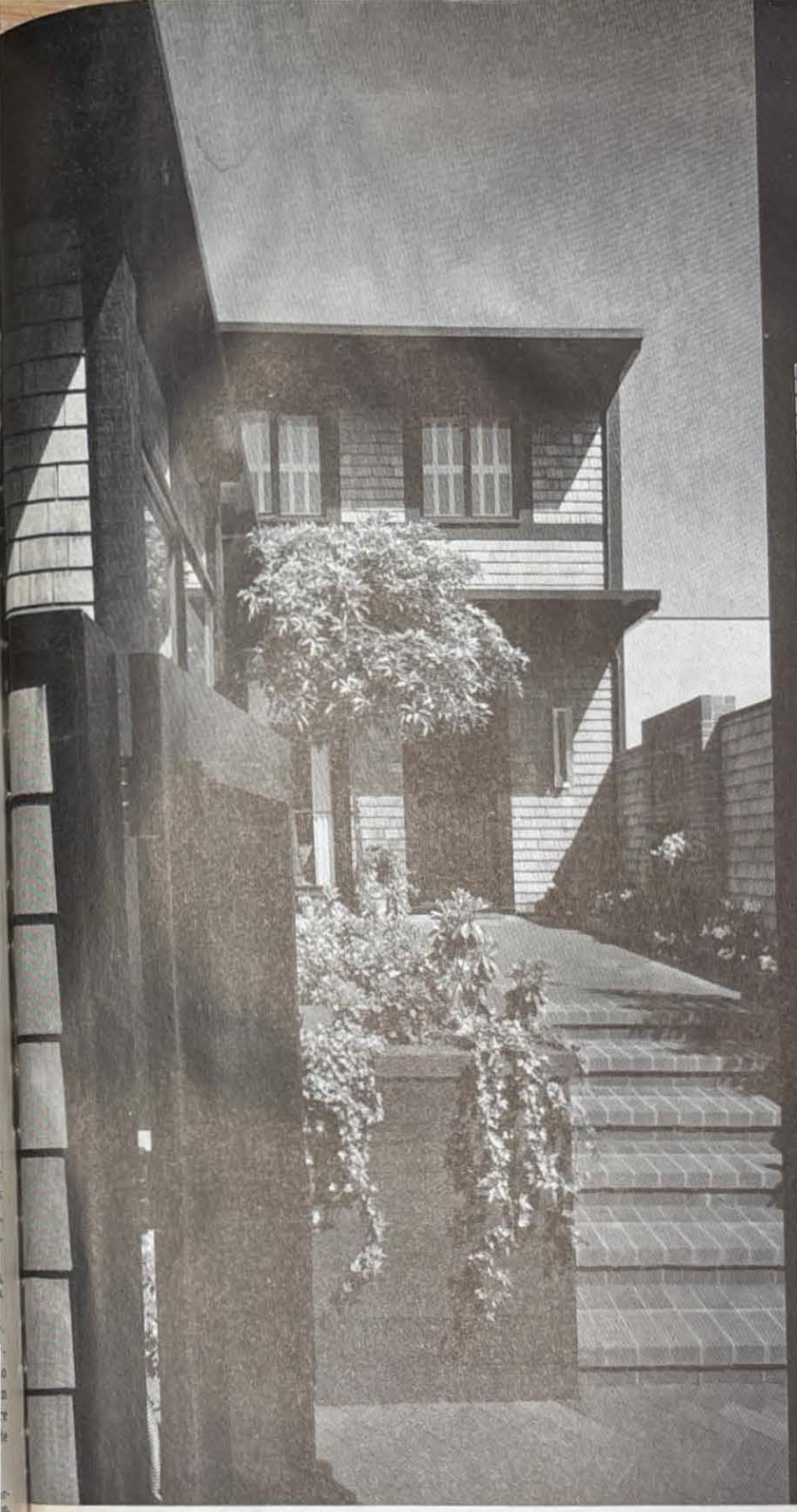
Demonstrates various construction techniques, adaptable styles and installations of actual fountains in the landscape design. Included are scenes of fountains in large malls, parks, traffic circles, gardens and interiors.

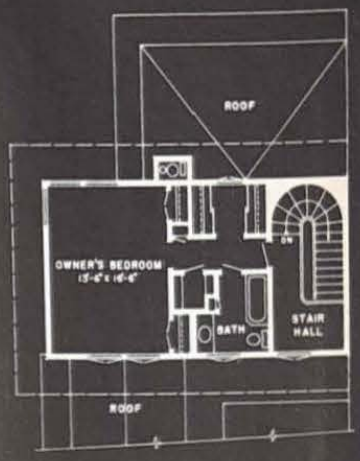
An Architect at Work. Association Films, 799 Stevenson St., San Francisco. 16mm. Color. 28½ min.

Depicts creation of a modern skyscraper from the architectural drawing board through construction, to completion. Examples of buildings in various parts of the country are shown. Produced by Pittsburgh Plate Glass Company.

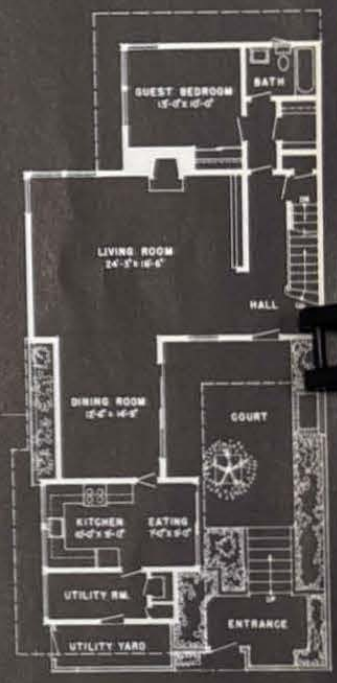
Time of Change—Hardboard Goes Glamorous. American Hardboard Association, Suite 1300, 75 E. Wacker Drive, Chicago 1, Ill. Color.

Illustrates hardboard's wide variety of new finishes and surface textures in and around the home, offices, schools, restaurants and other commercial applications, and in furniture, automobiles, signs and displays.





SECOND FLOOR PLAN



MAIN FLOOR PLAN

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Architects: Wurster, Bernardi & Emmons

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As THIS DECEMBER ISSUE goes into the mail, educators and school architects all over the nation will be watching results of a December 3 bid opening at Stanford University's School Planning Laboratory.

Here, the bidders will submit proposals for schools that haven't even been designed yet. Bids will cover unit costs for structural systems, heating-ventilating-cooling package, lighting and partitions for 22 high and elementary schools to be completed in 13 California school districts during 1966 and 1967.

It is hoped that the bid result will establish an integrated system of standard school building components that will be flexible enough to be adopted by individual job architects to meet desires of the several school districts involved.

The School Construction Systems project (a joint venture of Stanford School of Education and the University of California Department of Architecture under a Ford Foundation grant) is headed by Architect Ezra Ehrenkrantz, who is encouraging totally movable partitions, a "service sandwich" between ceiling and roof, and rooms that may vary from one to four teachers and from one-quarter to four times the standard room size.

The service sandwiches will supply full thermal environment control, and low-brightness lights no matter what arrangement partitions may take. Designers are being encouraged to come up with ceilings that either form or contain air ducts and act as light reflectors, or light fixtures that double as heaters.

We'll be watching and reporting whether the bids and specifications will prove a much-needed "breakthrough" in the area of componentized systems that will give the architect the freedom he needs.

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