


P/A NEWS REPORT

Progressive Architecture 430 Park Ave., New York, N. Y. 10022

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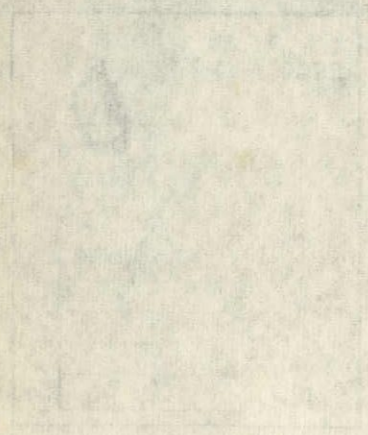
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THE UNIVERSITY OF CHICAGO PRESS

Volume 1, Number 1, Spring 1968



Bright idea



Bradpack Lavatories—new pre-assembled wash centers with foot control. Stainless steel throughout. Truly sanitary: hands never touch soiled faucets. Specify Bradpacks for bedrooms, nurses' stations, examining rooms, first aid rooms, clinics. For motels and dormitories. For food handling areas. For public washrooms. *Wherever* you want the sanitation of foot-operation. Choice of two models: lav section only; or full-length unit. Complete with temperature selector, foot-control, and wide selection of convenient features... all pre-assembled and ready for hookup to piping and wiring connections. Foot-operated Bradpack lavatories. Bright ideas—sanitary ideas—from Bradley! See your Bradley representative. And write for latest literature. Bradley Washfountain Co., 9109 Fountain Drive, Menomonee Falls, Wisconsin 53055.

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BRADLEY

NEXT MONTH IN P/A

Human Habitations

How people live within an architectural framework is the subject of the entire May issue. Housing can no longer be adequately discussed with a collection of pretty residences, so the editors of P/A have devoted their traditional annual housing issue to showing how architects have designed for four population groups: the elderly, the student, the designer, and the wealthy.

Housing for the elderly ranges from an institutional high-rise for the Friends by Venturi & Rauch to the varied products of Rossmore Leisure Worlds, which have made old-age housing a thriving business. More than eight varying types of projects are shown.

Dormitories and student housing are on the boards of many architects these days because of the phenomenal business in projects for higher education. P/A shows a build-it-yourself dorm in Vermont, a pair of high-rises on Long Island, a boys' dormitory in California by a father-and-son team, and a handsome complex in Rhode Island that won the P/A First Design Award in 1965.

People who design for themselves frequently let out the stops and create more swinging, pace-making houses and apartments than they could get away with with more conservative clients. The residences of Paul Rudolph, Charles Moore, Hugh Hardy, Peter Hoppner, and Frederick Romley will testify to this.

A Palladian "castle" by I.W. Colburn and a Wrightean country house by Euine Fay Jones will show what can be done in quite different ways—one lavish, one rich but serene—when money is no object.

So whether your present or future clients are the elderly, colleges and universities, rich people, or even yourself, there is heady brew for you in the May P/A. Fill in and send in the subscription card at the back of this issue. You'll find that, when P/A writes about it, there's no place like housing.

Designing a laundry?

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Troy® can, of course, supply just the washers, extractors, washer extractors, washer-extractor-conditioners, ironers, folders and crossfolders you need to equip a modern laundry.

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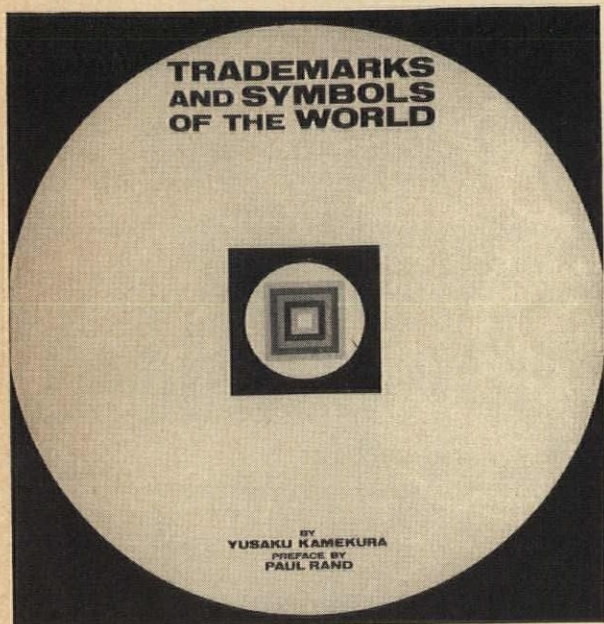
GET YOUR PERSONAL REPRINT OF P/A's OCTOBER "CONCRETE" STORY

A limited number of reprints of the editorial section of the October issue of PROGRESSIVE ARCHITECTURE have been set aside for our readers.

This was the issue that explored the subject of Concrete from top to bottom. It looked in depth at the uses and mis-uses of concrete in office buildings, houses, hospitals, saloons and state capitols. It gave cogent answers to the question: "What is the future for this most promising yet controversial of building materials?"

Comments and critiques on concrete were supplied by experts from all sides of the building industry — architects, designers, engineers and builders.

Get your own personal copy (or copies) at \$1.00 each of the October Concrete reprint by checking #475 on the Readers' Service Card at the back of this issue. We'll bill you later.



Trademarks and Symbols of the World

by Yusaku Kamekura, Preface by Paul Rand

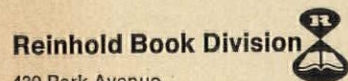
"It is easier to remember a person's face than his name" is a statement often used to explain the importance of trademarks.

In this extraordinarily beautiful book, the best trademarks designed during the last 10 years are reproduced at large scale in black and white and color. The high level of imagination and skill that designers of many countries have brought to bear on this most important design assignment is clearly visible. The trademark designs presented cover a wide variety of fields, such as advertising, packaging, and television. Since a recent trend in trademark design is the use of color, the book contains pages printed in as many as six colors. Complete new designs for old and new firms — as well as examples of the re-design of old trademarks — are included. Examples range from Erik Nitsche's design for General Dynamics and Saul Bass's design for Alcoa to Giovanni Puitori's signs created for Olivetti products and Paul Rand's complete design programs for I.B.M. and Westinghouse.

264 pages, 11 x 10 1/2", 60 pages of illustrations in many colors, 164 pages of illustrations in black and white. \$22.50

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April 1967

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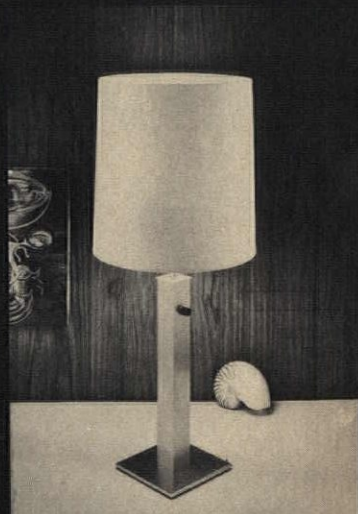
These electronic dimming devices offer several advantages; provide a wide range of lighting levels...use a standard one way bulb...increase bulb life by 5 to 6 times.

Write for brochure, or see us at AIA Show, N. Y. Hilton, Booth 319.

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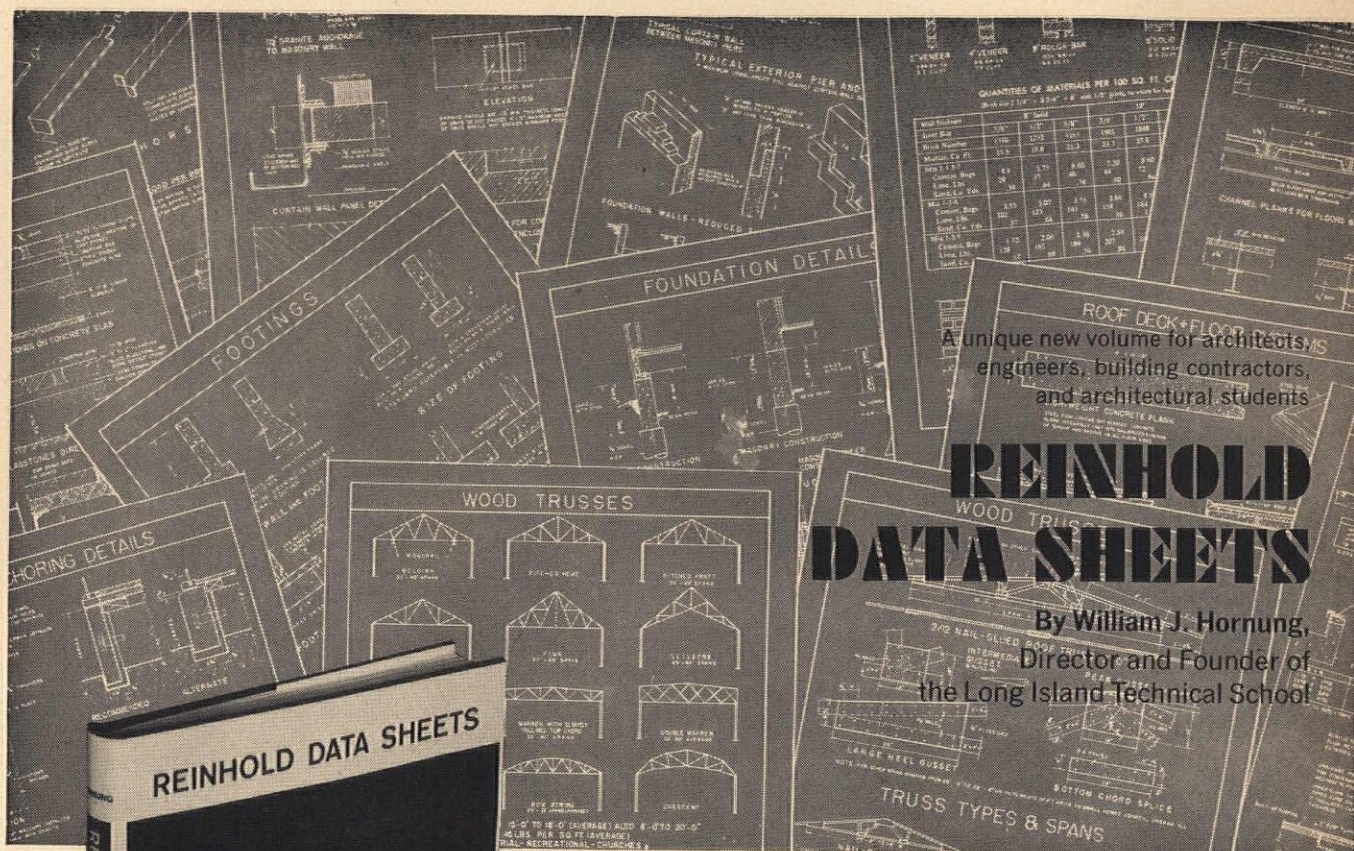


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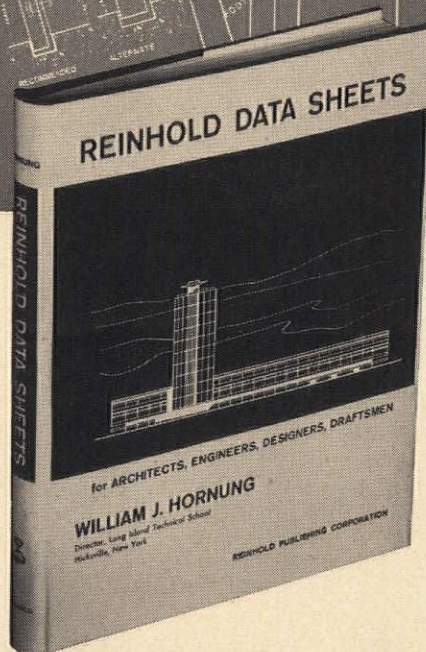




A unique new volume for architects, engineers, building contractors, and architectural students

REINHOLD DATA SHEETS

By William J. Hornung,
Director and Founder of
the Long Island Technical School



hundreds of
reference diagrams
and drawings

This book presents the most up-to-date reference and drawing data in the field of architecture, construction, and design. Here, in a single, conveniently arranged volume, is the latest information on new construction methods, much of which has never appeared before in book form. An extremely practical book, it features the most essential reference data required by the professional in his daily work.

The contents are organized to deal, in order, with the four main aspects of building: sub-soil constructions; wall systems; floor and roof systems; and methods of construction, including details, surface, and finish treatments. The book begins with detail drawings and data for footings and foundations, and its sequence of presentation follows a pattern similar to that used in the actual construction of buildings. Valuable information is given on the various methods of wall, floor, and roof treatments employing new uses of wood, concrete, steel, and stone.

The arrangement of the subject matter is distinguished by the fact that where materials in a certain construction system have been shown in detail, the methods of estimating quantities of these materials have been included. Questions and answers pertaining to mechanical and electrical equipment of buildings have been added for the benefit of those preparing for the Registered Architect's examination.

The practical applications of this book within the building construction, cement, building materials, and equipment manufacturing industries are exceptionally broad. Architects, engineers, and builders will find it especially useful as an up-to-date source of ready reference, and for the contractor it can prove a most efficient aid to becoming better acquainted with new methods of construction. In addition, it is highly adaptable for reference use by students of architectural design and mechanical drawing in technical schools and colleges.

1965

256 pages

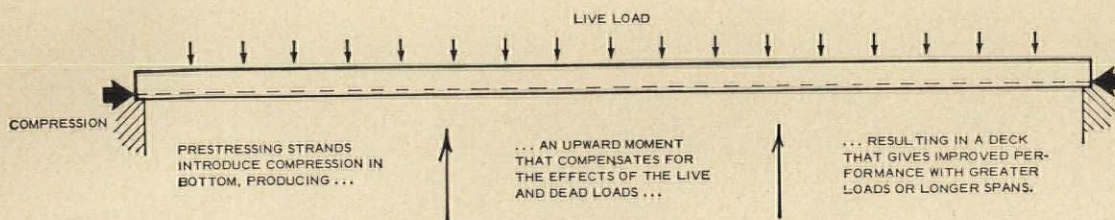
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DEPT. M-391

REINHOLD BOOK DIVISION 430 Park Avenue, New York, New York 10022



New HI-STRESS DECK gives you benefits of prestressed concrete along with high-speed construction.

The diagram above shows how prestressed reinforcement in new Flexicore HI-STRESS DECK produces a long-span deck with high load carrying capacity. The high-tensile steel strand in the bottom of the deck has "built-in" compression that introduces an upward moment which supports the dead and live loads.

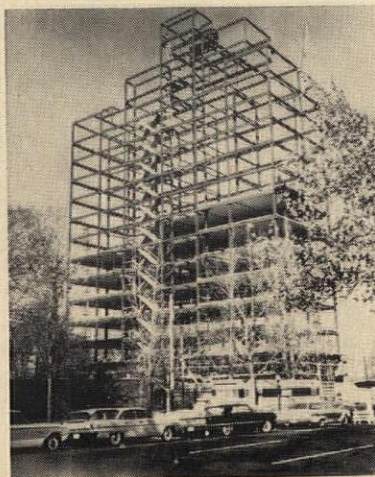
This design lets you carry a greater load or span farther with a light-weight hollow-cell deck. The accurate pretensioning of the steel strand under factory-controlled conditions results in excellent performance.

HI-STRESS DECK goes in one day and the next provides a smooth, clean surface for other trades.

Installation continues through weather conditions that would stop on-the-site pours. Contractors find that Flexicore jobs are often finished before the completion deadline. Owners move tenants in weeks or months earlier.

Firesafety is another plus value. The 8-, 10- and 12-inch untopped HI-STRESS DECK has earned 2-hour fire resistance ratings from national testing laboratories (rating is 3-hour on 8-, 10- and 12-inch deck with 1¾ inch topping).

For new catalog, "Flexicore Hi-Stress Deck," write The Flexicore Co., Inc., P. O. Box 825, Dayton, Ohio 45401.



Fourteen-story Dell House Apartments, Baltimore, Md., used 70,000 sq. ft. of Hi-Stress Deck on a lightweight steel frame.



On Readers' Service Card, Circle No. 352

the recently introduced blade-baffle "Quartette" ceiling that provides integrated air handling, as do several coffered ceiling systems. Dimensioned drawings, photos, fire ratings, cost estimates, acoustic qualities, and other descriptive material is included. Photos above show "Leaf-lite" and "Squiggle." 16 pages. Luminous Ceilings Inc., 3701 N. Ravenswood Ave., Chicago, Ill. 60613.

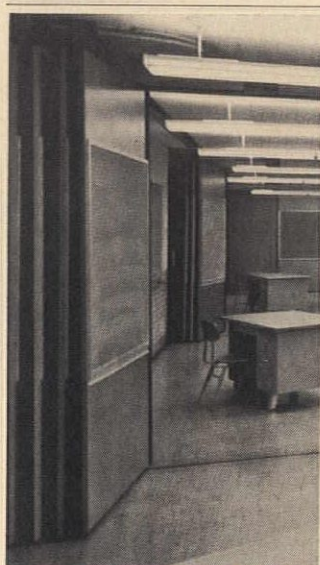
Circle 211, Readers' Service Card

SPECIAL EQUIPMENT

Department of interior. Partitioning system plus modular product display units provide the tools for designing flexible store interiors. Partitioning may be free-standing or attached to unfinished wall surfaces; vertical uprights are notched to accommodate the insertion of adjustable shelf brackets, and vinyl or peg-board surfacing is available. Display units are available in many drawer-rack-and-shelf combinations for special or general purpose. Photos, descriptions, and dimensions. 40

pages. Ready Metal Mfg. Co., 4320 S. Knox Ave., Chicago 32, Ill.

Circle 212, Readers' Service Card



Walls change spaces. Operable wall booklet for '67 details and describes the sliding acoustic barriers used to obtain more flexible spaces in meeting rooms, schools, and offices. Steel panels with rockwool cores slide on overhead tracks

and have full-perimeter gaskets forming an acoustically sealed wall when in place. Color photos, detail engineering drawings and cross-sections demonstrate single and multiple system installations. 16 pages. The E.F. Hauserman Co., 5867 Grant Ave., Cleveland, Ohio.

Circle 213, Readers' Service Card

Smog protection. Pamphlet contains an analysis of smog, its causes and effects, and a description of equipment using "activated" carbon to remove gaseous impurities entering the air systems of buildings. Connor Engineering Corp., Danbury, Conn.

Circle 214, Readers' Service Card

Maintaining stainless. For architects who have been asking for more maintenance literature, here is a chart giving directions for removing smears, spots, grease, oil, and other deposits on stainless steel. Type of deposit, cleaning agent, method of application, and effect on finish are given.

One page. The Committee of Stainless Steel Producers, American Iron and Steel Institute, 150 E. 42 St., New York, N.Y. 10017.

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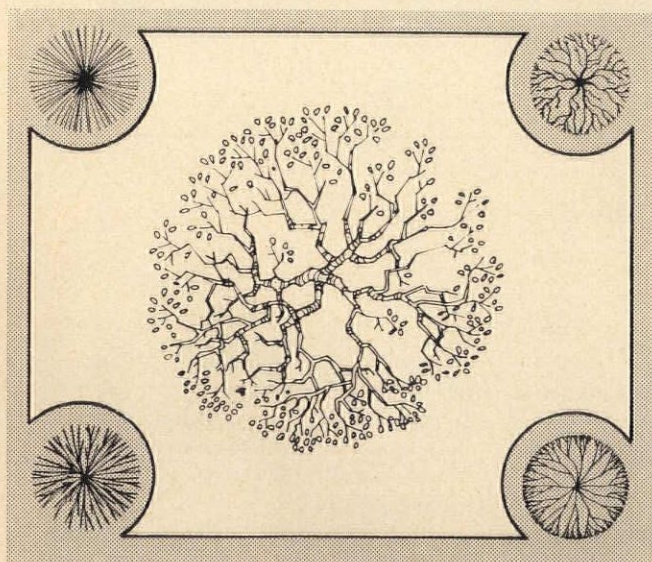
The pure drink. Water fountains of stainless steel and vitreous china are cataloged in recessed, semirecessed, and face-mounted categories. Outdoor fountains, glass-fiber battery fountains, pedestal and counter units, and accessory items are listed. Photos, dimensioned drawings, and descriptions. 20 pages. The Halsey W. Taylor Co., Warren, Ohio 44481.

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PROGRESSIVE ARCHITECTURE NEWS REPORT

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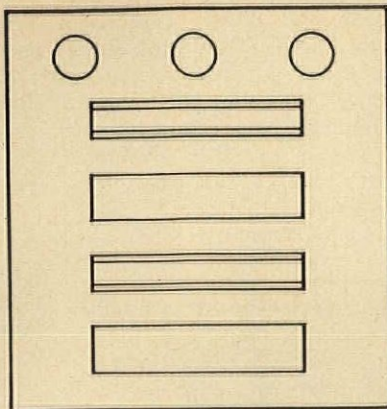
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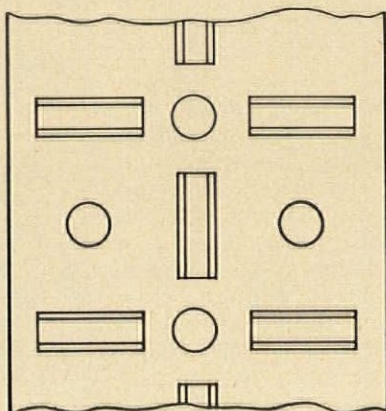
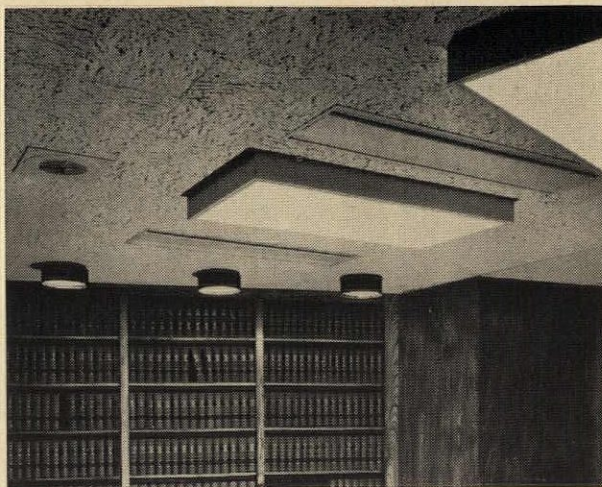


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In this library and reception room, two Moduline units have been combined with circular surface-mounted light fixtures.



Moduline units in this school cafeteria are separated by incandescent lights, but can still be served by straight-line ductwork.



Adaptable Carrier Moduline air terminals have no "or equal"

You can get an idea from these examples how adaptable Moduline® units are.

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And factory-installed controls are powered by supply air. No external wiring, or pneumatic connections. More headaches eliminated.

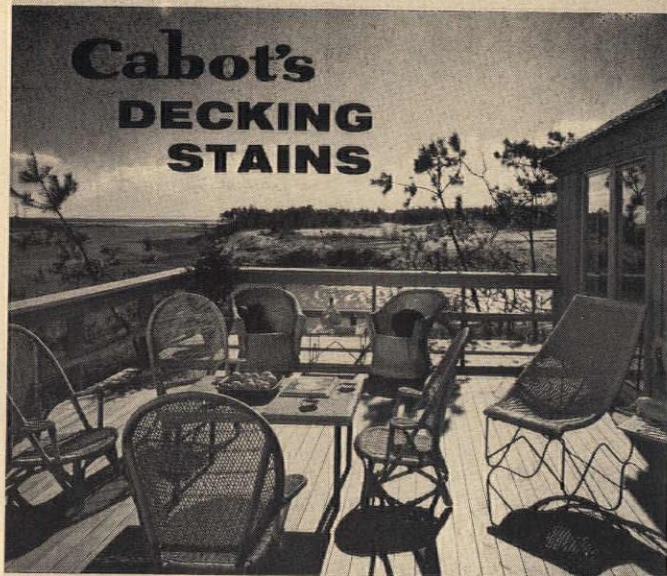
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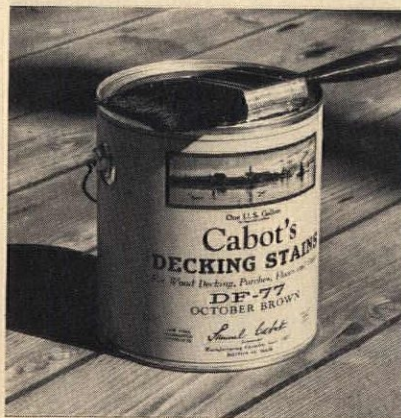
New ... for Wood Decking



Home at New Seabury, Cape Cod, Mass.; architect: Royal Barry Wills & Associates, Boston, Mass.; developer: Emil Hanslin Associates, Melrose, Mass. Cabot's Stains used on Interior and Exterior.

A finish that stands up to heavy foot traffic and severe weathering.

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utilizes pecan wood components combined with vertical metal bar drawer pulls. Legs are designed as independent structural elements and are joined to the individual components with metal pins. A conference desk saves space by combining desk and table; knee wells on short sides permit utilization of full perimeter. Color brochure illustrates all pieces (single- and double-pedestal desks, credenza with top opening file units, tables, chairs, and free-standing storage pieces). Dimensions, specifications, and gen-

eral descriptions are included. Jofco, Jasper, Ind.

Circle 208, Readers' Service Card

Venetian Blinds. Levolor features the "Riviera," an elegant, almost invisible blind with 1"-wide slats connected by a very slim, braided polyester ladder. Other models shown in 12-page catalogue are: heavy duty, specially designed for hard use; audio-visual, to shut out all light; detention room, with outside controls; skylight coverings, and motorized blinds. Also included are de-

tailed specifications, construction information, and hardware components. Levolor Lorentzen, Inc., 720 Monroe St., Hoboken, N.J. 07030.

Circle 209, Readers' Service Card

Colorful upholstery. Chroma I all-nylon upholstery offers a portfolio of cuttings of each of its 65 colors as well as a color wheel and basic guide to color schemes. To facilitate mixing and matching, swatches are removable. The criss-cross textured weave is protected by Scotchgard (also

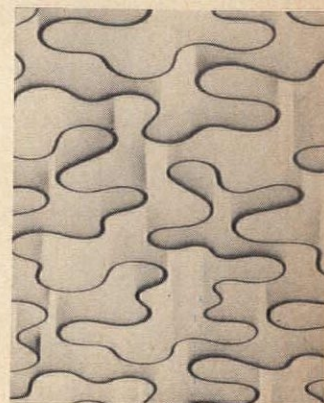
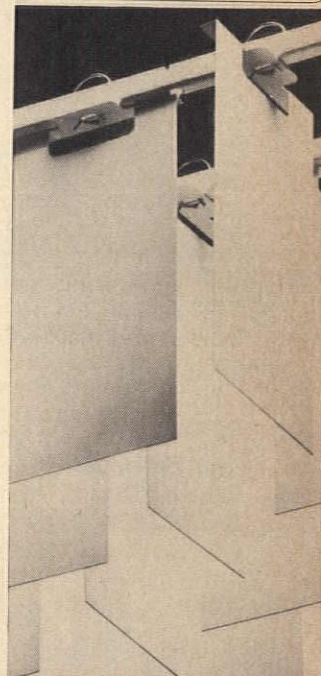
fade-resistant) and has the feel of wool. Cost for the catalogue (\$5.25 including postage) is refunded with an order for Chroma I. Jens Risom Textiles, 444 Madison Ave., New York, N.Y. 10022.

INSULATION

Keep it warm and quiet. Spray-on cellulose fiber material has flame spread of "20," reports manufacturer. Suitable for acoustical and thermal insulation, the sprayed-on material will not disintegrate, rot, or shrink. Folder describes properties and includes short specs. 4 pages. National Cellulose Corp., 12315 Robin Blvd., Houston, Tex. 77045.

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LIGHTING



Light is a many baffled thing. Large selection of baffle systems for luminous ceilings include loose-leaf, squiggle, eggcrate, and coffered designs. Included in this cross-section of manufacturer's designs is

THE OUTPERFORMER

Extra measures of performance go with every specification of "Kitchen Exhaust Ventilation By Cockle." You get utmost attention to working details. You get what many consider the most efficient exhaust principle engineered today. You get uncompromising quality in warranted fabrication. And you can draw on our range-top to roof-top service from one responsible source. We'll even custom-design and fabricate uniquely aesthetic ventilators decoratively trimmed to suit any decor need. Write for literature from the outperformer.

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Cockle

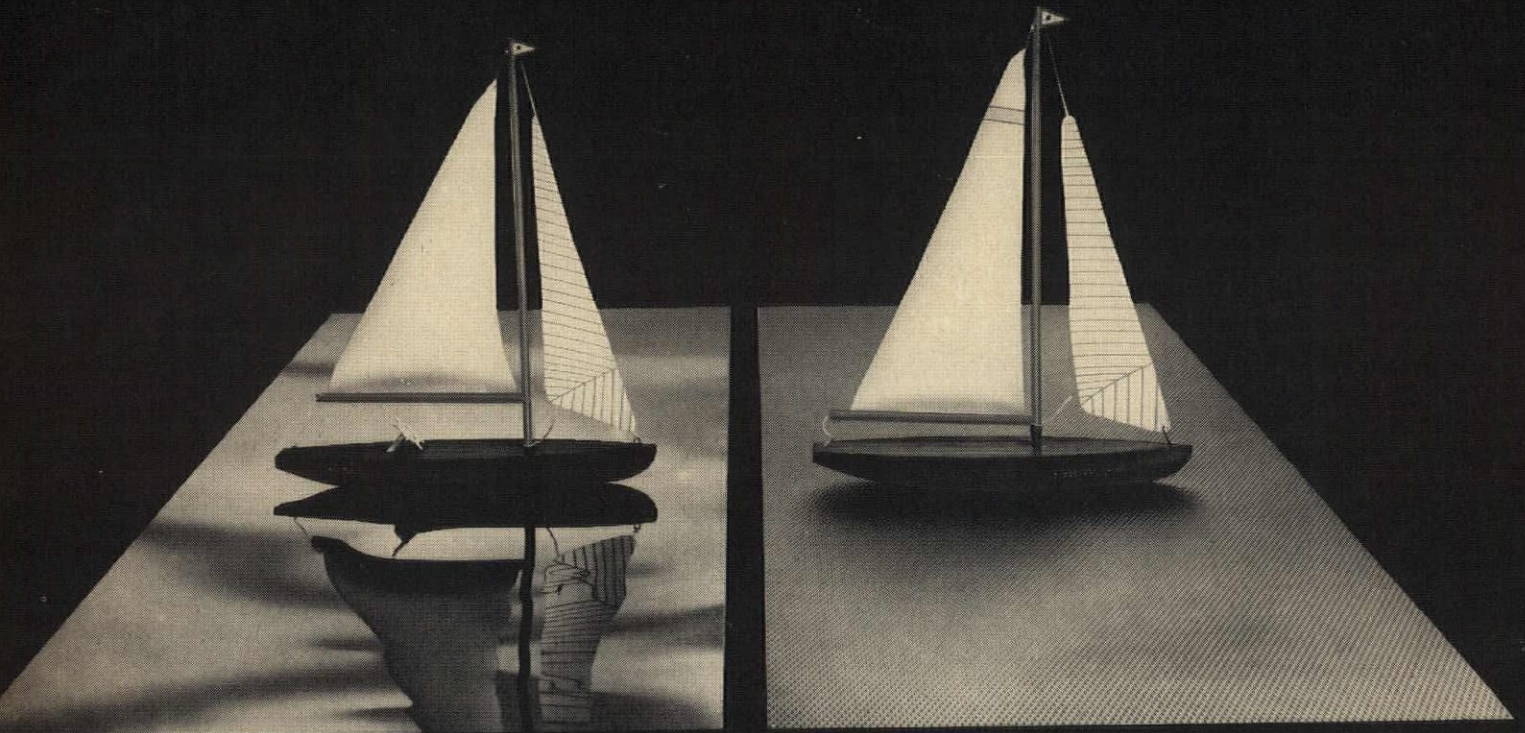
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See the "oil canning" on the plain stainless?



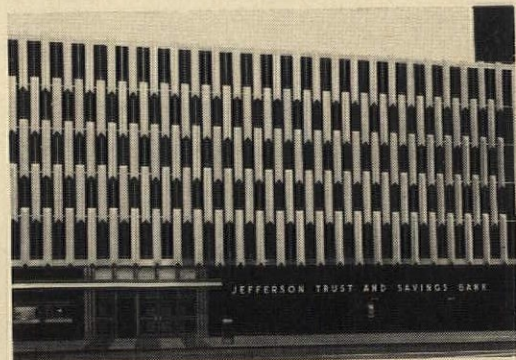
Rigid-tex® stainless eliminates waviness for maximum flatness.

It's a paradox. Large areas of flat metal (for curtain-wall, column covers, and fascia) look wavy while Rigid-tex looks flat. Rigidizing takes the waves out and provides maximum visual flatness.

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Architects: Lankton, Ziegele & Terry
Stainless Steel Fabricator: Dawson Metals Products
Curtainwall: Rigid-tex pattern 6WL, stainless type 304,
by Fenestra



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MFRS' DATA

AIR/TEMPERATURE

Fan fare. Changing the pitch of fan blades during operation gives precise control of air volume, according to manufacturer. "Axivane" fans used in commercial and industrial air and ventilation systems are part of a closed loop system, and are activated by sensory devices. Brochure describes operation and advantages of fans; tables show power savings at various loads and reduced sound levels. 6 pages. Joy Mfg. Co., 338 S. Broadway, New Philadelphia, Ohio 44663.

Circle 200, Readers' Service Card

CONSTRUCTION



Isolating fire. Booklet entitled "Fire Walls in Modern Industrial Buildings" is a guide to the purpose and construction of fire walls that subdivide factories and other industrial buildings. Suitable materials and methods of construction, protection of door and other openings are covered. Photo shows fire wall that has successfully protected part of a plant from fire. Construction details, text, and photos. 16 pages. Factory Mutual System, Publications Dept., P.O. Box 688, Norwood, Mass. 02062.

Circle 201, Readers' Service Card

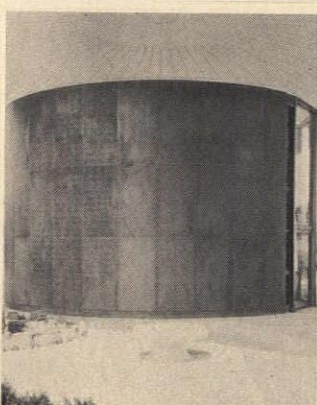
Condensation control. Increased use of insulating materials, glass, and other impermeable materials in modern structures creates special condensation problems in buildings. Booklet includes discussion of houses with below-grade crawl spaces and slab-on-grade buildings; the damage condensation can cause and how to prevent it; effects of wall insulation; per-

meability of various materials; and the effects of moisture on thermal conductivity. Manufacturer's vapor barrier membranes are also included. Data charts, formulas, photos: 24 pages. Price: \$2. W. R. Meadows, Inc., 2 Kimball St., Elgin, Ill. 60120.



Waterproofing spray. Glass fiber-reinforced bituminous membranes are spray-applied to roof decks and below-grade surfaces (both vertical and horizontal) with a specially developed spray gun. Specifications, selection guide, flashing, and other construction details are given for the "Monoform" waterproofing system. 20 pages. The Flintkote Co., Architectural Products, P.O. Box 157, Whippany, N.J.

Circle 202, Readers' Service Card



Slate data. Booklet containing factual information on slate is designed to aid the specifications writer. Data on uses, sizes, limitations, grades, finishes, chemical and physical properties, and installation procedures are included. The final section is a series of photographs of interior and exterior architectural applications. 20 pages. Pennsylvania Slate Producers Guild, Inc.,

Pen Argyl National Bank Bldg., Pen Argyl, Pa. 18072. Circle 203, Readers' Service Card

DOORS/WINDOWS

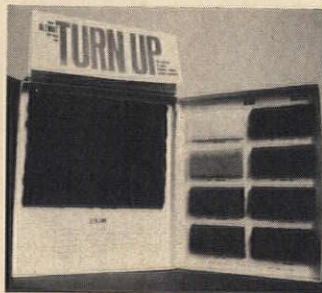
Lightweight doors. Folding closet doors have polyurethane core, plastic surfaces, and metal channel frame with enameled edges — materials that are quiet and warp-proof, says manufacturer. Brochure also describes expanding metal shelf system. Patterns, sizes, photos, and installation details are given. HC Products Co., P.O. Box 68, Princeville, Ill. Circle 204, Reader's Service Card



Warm windows. Among a group of 1967 brochures on manufacturer's wood windows, wood sliding glass doors, and wood folding partitions, is a design booklet on nonresidential and multiple dwelling windows that include a standard casement and an awning window new to the manufacturer's catalog. Photos of completed projects, table of sizes, specifications for casement, double-hung, and awning windows of Western pine. 12 pages. Rolscreen Co., Pella, Iowa 50219.

Circle 205, Readers' Service Card

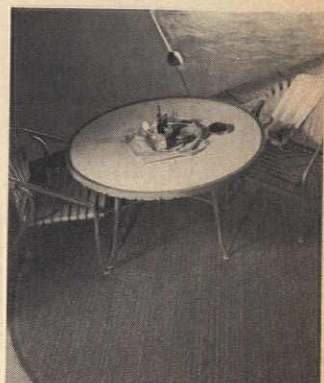
FURNISHINGS



Weather or not. Easiest on the feet and plushiest of the indoor-outdoor carpets is Glenlawn, sliver knit of 100% Herculon olefin fiber. It is resistant to moisture, shedding, fading, and staining. Installation is easy (double-face tape is suf-

ficient) and maintenance is limited to sweeping, vacuuming, or hosing, depending on location. Kit shows swatches of all colors (white, black, red, sandtone, blue, gold, rust, as well as spring green and "verdian green"), size specifications (area rugs, roll sizes, and runners are available), and cost information. Glenoit Mills, Inc., 111 W. 40 St., New York, N.Y. 10018.

Circle 206, Readers' Service Card



Elegant carpeting outdoors. Deltex indoor-outdoor carpeting comes in nine patterns. Most dramatic is "Club Square," a two-color plaid in such colors as blue/green, and black/white. Also featured is "Poly Vogue," a striped, tufted design of 100% Polypropylene. All patterns (except Poly Vogue) are impregnated with vinyl and are reversible. The 14-page color booklet illustrates each pattern with all color choices, gives rug and carpet sizes, shows sample installations, and indicates durability of carpet in outdoor conditions. Deltex, Inc., P.O. Box 260, Oshkosh, Wis. Circle 207, Readers' Service Card



Office furniture. A booklet titled "Space/Function/Structure" describes Jofco's Architect Series of office furniture. The design, by ISD, Inc. (interior design subsidiary of Perkins & Will, architects)



Chateau Orleans Apartments, Wilmington, Del.
Designer/Builder: Ralph Paul, Inc.

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As for sound-deadening characteristics . . . INR +21 and STC 50 are obtained under ISO R-140 and FHA 750 test conditions. (Complete test data available on request.)

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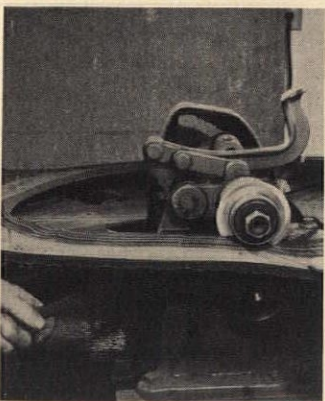
TRENTON, N.J. 08603

On Readers' Service Card, Circle No. 360

posed of a one-part polyurethane finish applied over a one-part polyester base. Suitable for interior wall and ceiling surfaces in hospitals, schools, processing plants, etc., it forms a hard, washable surface that is said to adhere well and be resistant to stains and chemicals. It comes in three systems: "PC," for dense surfaces like poured concrete or plaster; "CB," for concrete blocks (bare or previously coated); and "ILT," for concrete blocks that have never been painted or coated before. Low-cost Sanitile (17¢ to 37¢ per sq ft in comparison with regular tile systems) is applied easily with brush, roller, or spray-gun attachment. 53 colors. The Master Mechanics Co., 4475 E. 175 St., Cleveland, Ohio 44128.

Circle 110, Readers' Service Card

FLOORING

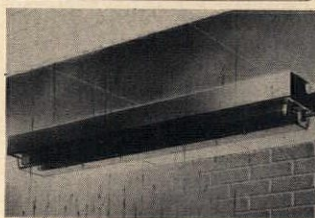


From tire walls to commercial floors. Ingenious design and manufacturing process make raw materials out of what would otherwise be waste items — the sidewalls from worn-out truck and bus tires. Tire casings are made into carpeting by cutting into strips (photo), and removing surface rubber to expose nylon cord. Exposed cord is then buffed to raise a short ($\frac{1}{8}$ ") but tough nap, and

strips are bonded to fiber glass backing. The end products are 12"-square carpet tiles of variegated black, brown, white, and gray colors, suitable for heavy-traffic commercial use — either inside or outside (see photo). Carpeting is said to be weather-resistant, dirt-resistant, nonskid, and extremely durable. Maintenance is by vacuuming or other common carpet cleaning methods. Futurus, Inc., 1076 W. 9 St., Upland, Calif.

Circle 111, Readers' Service Card

FURNISHINGS



Waterproof Troffers. A line of fluorescent luminaires enclosed and gasketed (EG) is designed for use in food-processing plants, washrooms and shower areas, industrial kitchens, and other areas where enclosed fixtures are desired for added safety and cleanliness. Another group of fixtures, moisture-resistant and gasketed (MR), are suited for outdoor applications such as covered walkways, under eaves, and similar areas not completely protected against weather. Design provides protection for both electrical components and lamps from moisture, dust, and accidental breakage. Since hosing with water will not damage the luminaires, cleaning is easily accomplished. Both the EG and MR series come in 4' models for one or two lamps, or 8' models for two or four lamps. Lighting Products Inc., Highland Park, Ill. 60035.

Circle 112, Readers' Service Card

First guaranteed carpet. Allied Chemical Corporation's Fibers Division has announced a three-year wear guarantee on carpets. The guarantee, the first to be offered by a fiber producer in the floor-covering field, covers surface wear loss of more than 10% (per sq yd) of pile fiber. Replacement would be at manufacturer's expense. Among the carpet manufacturers already quali-

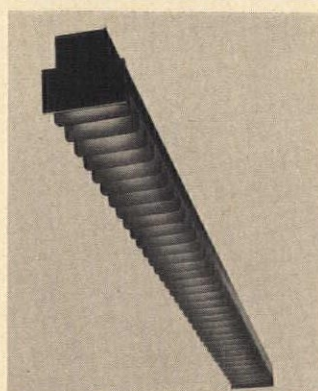
fied for the A.C.E. label are Hardwick-Magee, Monarch, and E. T. Barwick. Allied Chemical Corp., Fibers Div., 1 Times Square, New York, N.Y.

Circle 113, Readers' Service Card

Extra-dense carpet. Tufted on fine gage machinery, "Powerbond" carpet is almost three times as dense as ordinary commercial carpeting and consequently is more impervious to normal spillage. The carpet, of 100% nylon pile in low-loop construction, has polypropylene primary tufting back and pure vinyl precoat and secondary backing. Width is 54" and colors are 11 tweed combinations. A special hard-backed version can withstand the abuse of shopping-cart traffic. Collins & Aikman, 210 Madison Ave., New York, N.Y. 10016.

Circle 114, Readers' Service Card

LIGHTING



Low-light ambience. Limited area illumination and low brightness are combined in "Black Stack/Light," suitable for library book stacks, corridors and other confined areas. Four- and eight-ft units may be surface or pendant mounted. One-piece, matte black baffles for fluorescent lamps lift off easily for relamping. Litecontrol Corp., 36 Pleasant St., Watertown, Mass. 02172.

Circle 115, Readers' Service Card

SPECIAL EQUIPMENT

On film. Viewer for microfiche cards (standardized microfilm cards now widely used for reproducing information) is designed for viewing two frames simultaneously on the 14" x 20" screen. Simplified controls facilitate film scanning, focusing, and rapid

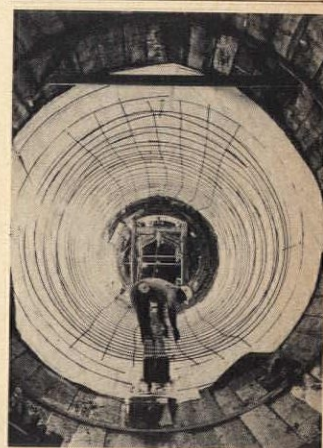
image retrieval; available with 22x or 30x magnification. Eugene Dietzgen Co., 2425 N. Sheffield Ave., Chicago, Ill. 60614.

Circle 116, Readers' Service Card



Bench marks outdoors. Western red cedar timbers (treated with weather-proofing preservative) on a vinyl-clad steel frame make handsome park, playground, or plaza bench by park designer Paul Friedberg. Cedar members are fastened to frame with tamper-proof hardware; vinyl-clad stanchions are ready for concrete installation. The 4'-long units are available in eight variations, with or without backs. Colorguard Corp., 126 E. 38 St., New York, N.Y. 10016.

Circle 117, Readers' Service Card



Vapor stoppers. Easy-to-handle, lightweight vapor barriers are reinforced with a criss-cross grid of high-strength threads embedded in a plastic fabric. Standard sheets (up to 40' x 100') also serve as curing blankets. Photo shows "Plastilap" water barrier in place in Houston, Texas, pedestrian tunnel. Griffolyn Co., Inc., 10020 Mykawa Rd., Houston, Tex. 77033.

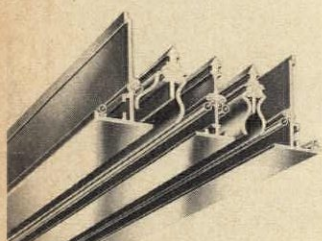
Circle 118, Readers' Service Card

PRODUCTS

AIR/TEMPERATURE

Look-in. Airtight inspection windows can be installed at coils, fans, duct turns, or any point in a heating, ventilating, or air-conditioning system requiring visual inspection. Available in six sizes from 6" x 6" to 18" x 18". Air Filter Corp., 4574-A West Woolworth Ave., Milwaukee, Wis. 53218.

Circle 100, Readers' Service Card



Long slot. Continuous air diffuser of anodized aluminum has vinyl bulb gasket shut-off in the adjustable vanes. "ASD" Air-Slot permits face-side adjustment of air-pattern and flow rate control with the same vanes. Standard sections are up to 8' long, and frame styles include screw-mounted border, concealed bracket mounting border, and concealed bracket flush-recess border. AirGuide Corp., 795 W. 20 St., Hialeah, Fla.

Circle 101, Readers' Service Card

CONSTRUCTION

Vintage timber. Hand adzed beams of wood with a minimum age of 50 years are available from a company that also offers weathered paneling and shake shingling to "soften the austerity of modern architecture." Beams up to 8" x 14" and up to 18' long are cut to size; chamfered edges if desired. Price is \$1.20 per sq ft of adzed surface, plus 25¢ per board ft of material. Decor Materials Inc., P.O. Box 254, Appleton, Wis.

Circle 102, Readers' Service Card

Treated shingles reduce fire hazard. Western red cedar shingles and shakes impregnated with a fire-retardant compound now meet the Underwriters' Laboratories, Inc., specifications for Class "C" roofing material. Shingles

and shakes have passed accelerated laboratory leaching tests equivalent to 800" of rainfall over a 10-year period. After this exposure, they show resistance to lateral spread of flame, generating no flying sparks in air currents up to 18 mph. Manufacturer claims that the treatment does not affect natural color, and chemicals have no adverse effect on galvanized nails, aluminum, or copper gutters and flashing. Koppers Co., Inc., Pittsburgh, Pa. 15219.

Circle 103, Readers' Service Card

Standard flashing now in "soft" stainless steel. No-springback, dull-finish stainless steel is now being factory-fabricated into through-wall flashings, concrete reglets, masonry reglets, cap flashings, and gravel stops. Products of "Softur" stainless steel (#304) cost 15% less than the same products made of copper, reports manufacturer, who fabricates flashings of both materials. Cheney Flashing Co., 623 Prospect St., Trenton, N.J. 08605.

Circle 104, Readers' Service Card



USING CONVENTIONAL WALLBOARD



USING NEW SHEETROCK SW

Sheetrock changes shape. Wallboard system developed to relieve ridging, beading, and other joint imperfections, uses a new gypsum wallboard with a "rock-hard," rounded, tapered edge. This "Sheetrock SW" wallboard edge replaces the conventional square tapered edge, and is said to relieve joint deformity problems caused by twisted framing, poor board alignment, damaged wallboard edges, and extremes in temperature and humidity. Special compound for prefilling

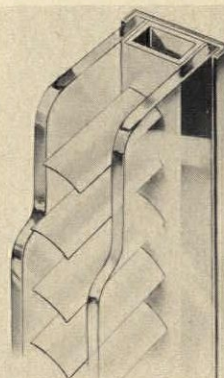
joints hardens with a maximum bond and minimum shrinkage, says manufacturer, and standard tools and techniques are easily adapted to the new installation system. "Sheetrock SW" is available in 1/2" and 5/8" thicknesses. United States Gypsum Co., Dept. #147-2, 101 S. Wacker Dr., Chicago, Ill. 60606.

Circle 105, Readers' Service Card

Moisture-proof tile. Polystyrene "Super Tile-Lite" ceiling tile has a highly reflective, white, pebble-textured surface suitable for use in damp climates, or in bathrooms and kitchens. Interlocking flanges of the 24" x 24" tiles (scored into 12" x 12" squares) are self-leveling, says manufacturer, or can be attached to solid backing with adhesive. United States Mineral Products Co., Stanhope, N.J. 07874.

Circle 106, Readers' Service Card

DOORS/WINDOWS



Sealed unit controls sunlight.

Adjustable louvers sealed between two panes of tempered glass offer control of sunlight, heat, and glare, as well as sound. Hermetic sealing in a 2" air space eliminates maintenance of 1 1/2"-wide aluminum louvers that rotate through 180°. Louvers are white and may be either horizontal or vertical. Sizes for horizontal blind units range up to 92" x 60" wide; for vertical, up to 72" square. Polarpane Corp., 825 Hylton Rd., Pennsauken, N.J.

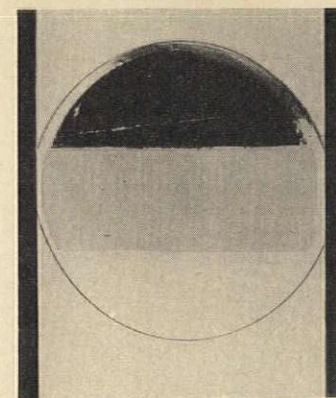
Circle 107, Readers' Service Card

Big door stands up to flames. The largest wood fire door available, according to manufacturer, will withstand temperatures up to 1700F for 1 hr. Wood veneer surfaces

and treated hardwood edges cover the mineral core of 4' x 10' door suitable for institutional installations. "Roddiss Fire Door" carries a 1-hr listing by Underwriters' Laboratories, Inc. Weyerhaeuser Co., Wood Products Group, Tacoma, Wash. 98401.

Circle 108, Readers' Service Card

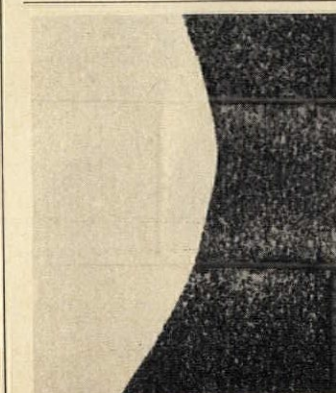
FINISHES PROTECTORS



Stretchy paint retains color.

Tests show new latex house paint to have excellent flexibility and resistance to sun fading, mildew, and chemical fumes. Based on a polyvinyl chloride formula, the paint has stretch and shrink weathering qualities that prevent cracking, chipping, and flaking, says manufacturer, and a mildew inhibitor that is completely nonreactive to fume staining. Photo (above) shows test sample that has been subjected to a cylinder of sulphide fumes (an air pollutant). Bottom part of circle is manufacturer's "Sun-Proof Latex"; middle is competitive latex paint; top is oil-base paint, showing the most severe damage. Pittsburgh Plate Glass Co., One Gateway Center, Pittsburgh, Pa. 15222.

Circle 109, Readers' Service Card



Instant Tile. Sanitile 550 is a tilelike coating system, com-

3" walls

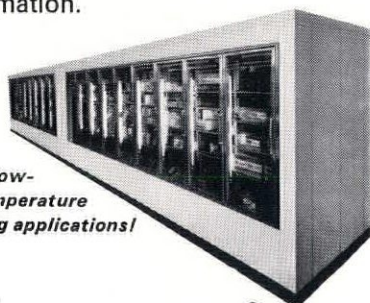
on Norris walk-in coolers, freezers and combinations provide full protection—plus more usable capacity per sq. ft. of floor space



Norris walk-in coolers, freezers and combinations, with walls only 3" thick, bring a new standard of excellence to the walk-in industry. The secret is frothed-in-place polyurethane insulation, providing valuable extra capacity in the same floor space occupied by old-fashioned walk-ins.

But a 3" wall is not the only advantage Norris walk-ins offer. With Norris you have your choice of polyurethane or glass fibre insulation—added flexibility. Norris walk-ins are supplied to actual, not nominal, dimensions within 6" increments. And modular, pre-fabricated construction makes assembly fast and easy—the only tool necessary is a light hammer.

Whether you're specifying a small storage unit or a mammoth refrigerated warehouse, Norris will meet your needs exactly. A postcard will bring complete information.



Glass doors available for low- or normal-temperature merchandising applications!

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On Readers' Service Card, Circle No. 379

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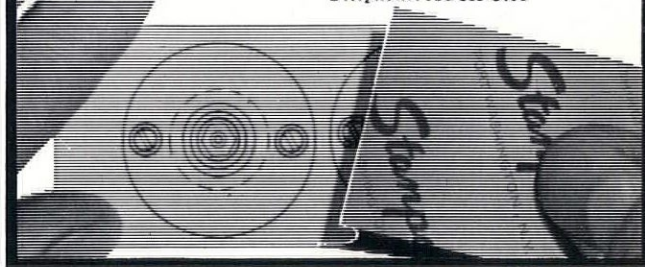
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Dockboards may look alike, but there's all the difference in the world in the features they offer, the way they perform and the maintenance they require. Be sure you understand the differences before you specify or buy.

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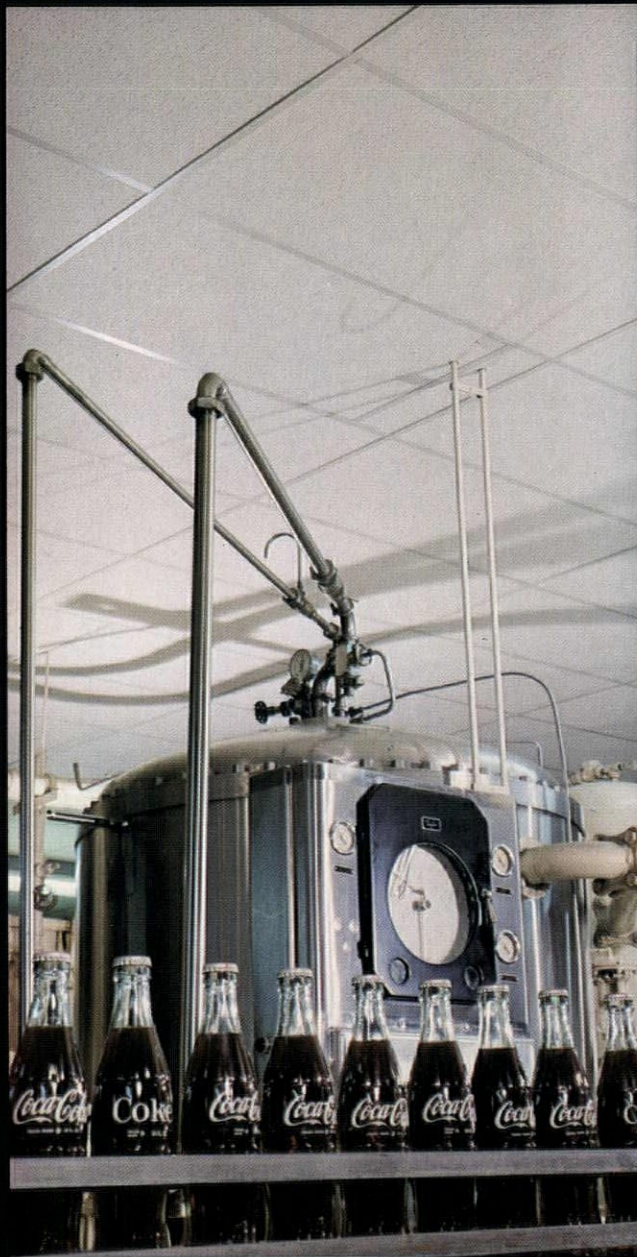
KELLEY COMPANY, INC.

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55-203

On Readers' Service Card, Circle No. 449

The ceiling for terrible places to have to put a ceiling.



Armstrong CeramaguardTM

When a Ceramaguard ceiling goes into a tough environment, you don't give a thought to service life. This ceramic material does its day-to-day job under circumstances that would make a conventional material call it quits in nothing flat.

To begin with, this fabricated acoustical ceiling material doesn't surrender to moisture. It retains its span strength and rigidity even under saturation conditions. A Ceramaguard ceiling can go up before the building gets closed in, with wet work still going on. Or it can go into

the moisture chlorine-laden atmosphere of an enclosed swimming pool.

Immune to freeze-thaw cycles, Ceramaguard works well on exterior installations, too. And it can be scrubbed repeatedly. All this coupled with excellent acoustical and reflective properties. And rated fire retardancy.

In short, in difficult installations, Ceramaguard not only stands up, it stands out. Like more information? Write: Armstrong Cork Company, 4204 Watson Street, Lancaster, Penna. 17604. Or circle No. 300 on Readers' Service Card.

CEILING SYSTEMS BY
Armstrong

But the watchdog fiscal agency had taken the somewhat unusual step of asking professional societies and Government agencies for comment on a draft of its report. While this was placed on a "top secret" basis, enough of the content leaked out for a good view of what was contemplated.

Genesis of the GAO study was a growing clamor by consultants last year that the 6% fee isn't high enough, results in poorer work, and keeps many firms out of Government activities. This resulted in a Congressional directive to GAO to study the matter, and to come in with a report and recommendations on the subject.

First results were disturbing enough: GAO sent letters to Army and other construction-buying agencies, insisting that the 6% fee "imposes a limitation on the total compensation payable for all A-E services, regardless of whether the cost of these services represents consultant fees, travel expenses, supervision of construction, preliminary effort, or the like."

Then came the real shocker: GAO said that the Armed Services Procurement Act of 1962 contained a provision that requires "competitive negotiation" for professional services. States the provision: "Competitive negotiation is defined as soliciting proposals from the maximum number of offerers . . . covering the complete range of considerations . . . price and others included." GAO also made a point of this matter in letters to the Secretary of the Army.

It also reportedly was prepared to recommend application of cost and pricing provisions (the "Truth in Negotiation Law") to A-E contracts and enforcement of other laws (PL 87-653) requiring that all materials and services be secured by competitive negotiation with fee as a "major" consideration.

If this is done by Congress, then GAO would recommend repeal of the 6% fee limitation, since minimum fees would then be assured.

Professional groups and others received the drafts of the report on February 10, with instructions to return their comments to GAO by February 24. The gist of the comments was that enforce-

ment of such provisions would wipe out years of effort in educating the public on selection procedures for professional services and years of effort to raise professional standards, and would result in poorer work for the Government.

One professional organization in Washington reported early in March that several Governmental agencies on state and lower levels had already written to ask for copies of the GAO recommendations, indicating they would move quickly to apply the regulations to their own operations.

More Dollars for Highways

— Another matter of major import to anyone concerned with the construction industry developed very quickly out of lengthy Congressional hearings (most unusually held by the full Senate and House Public Works Committees in joint session) into heavy cutbacks (more than \$1,100,000,000) in highway construction funds, as announced by the Administration on November 23, 1966.

Aside from the clamor of state governments, contractors' groups, and others as to the effect of the cutbacks on business, a central point emerged:

Congress thinks that the President may have acted illegally (or at least improperly) in tampering with the Highway Trust Fund at all. Legislator after legislator made the point that the fund is to be used for highway purposes only, and that nowhere in the 1956 Highway Act is there any leeway for use of the trust fund for Administration experiments in controlling the U.S. economy. (The cutback was justified as an anti-inflation move.)

Reason for the concern was obvious: If the Highway Fund, which was carefully circumscribed to provide a "pay as you go" atmosphere, can be used at the Administration's whim, then why not special funds for the Veterans Administration, agricultural programs, or anything else?

The paradox is that most Congressmen admit that there's no way they can force the Administration to spend money, even if appropriated. It was clear from the tone of

the hearings, in which new Transportation Secretary Alan Boyd got a very rough, though polite, going over, that Congress intends to build up a record on the highway cuts that can be used to club the Administration into restoring the full money on pain of real political damage. (An Administration announcement on the day the joint hearings opened, to the effect that \$575 million of the cut funds would be restored "soon," caused the angry Congressmen to adopt a wait-and-see attitude.)

Public Housing for Handicapped

— If Congress approves a bill now before it, the long-standing, but entirely voluntary, attempts of the Federal Government to design public buildings to accommodate the handicapped, will become mandatory.

The bill (S. 222) would put teeth in expected recommendations of a National Commission on Architectural Barriers, which is due to submit a report a year or more from now. It would require that any Federally financed public building (which would include structures on which Federal financing takes the form of loans or grants) must contain "express provisions" providing for compliance with regulations to be established by the Administrator of the General Services Administration, setting up "such standards for design and construction of public buildings as may be necessary to insure that all public buildings will be reasonably accessible to persons who are physically handicapped."

As of the moment, some 25 of the states have enacted legislation under the general heading of "Architectural Barriers," prescribing some accommodations for the handicapped. According to information in Washington, other states now have similar legislation pending.

The problem, according to Alaska Senator Bartlett, who introduced S. 222, is that both state and Federal action has been "a policy honored more in good intentions than in fact. What is required is a consciousness of the problem, an interest in its solution, and a little forethought in the planning stage of construction."

Capitol Plan Watchers — The yearly — and now almost traditional — go-round over the architecture on Capitol Hill is in for its usual revival.

Among bills now in Congressional hopper is one by New York's Rep. Ogden R. Reid (HR 94). It would establish a "Commission on Architecture and Planning for the Capitol," which would be required to approve any plan for "construction, alteration, or repair of any public building on, or landscaping of, real property comprising the U.S. Capitol Grounds."

The proposed "commission" would have some 15 members and would include at least one architect, one landscape architect, one sculptor, one artist, plus members of Congress.

Financial — The furor over funds for highway construction was apparently only the beginning of Congressional unhappiness with the President's efforts to enforce cuts in construction spending. The lawmakers are obviously equally unhappy with the token cuts in money for public buildings, rivers and harbors work, and military construction. Problem is that there's little that Congress can do to get the money spent, even if it restores funds in appropriations bills, except to bring as much pressure as possible on the President.

□ Taxpayers, however, were still giving strong support to public works construction, as evidenced by monthly bond-election results. In January, for example, they approved a total of \$121,300,000 worth of bonds — nearly 80% of all issues presented to them — with the bulk of the money (\$97 million) to go for elementary and secondary educational purposes.

□ Businessmen, under strong pressure from Washington, have cut about \$2,300,000 from their plans for 1967 capital spending. Pressure comes from removal of the 7% investment tax credit late last year, plus Government efforts to slow down inflation.

□ Big market for construction remains in maintenance and repair work: Commerce Department estimates it topped \$11 billion in 1965 alone on residential property.

Pittsburgh Corning,
the insulation people, announce
Celramic-BoardTM
the first roof insulation able to "breathe"
without loss of insulating value.

The secret's in the remarkable new glass nodules developed by Pittsburgh Corning (like the one shown at left, cut open and magnified). Each contains countless closed cells which trap still, dry air—the ideal insulating medium—inside a vaporproof, moistureproof shell of glass.

Most roof insulations get their insulating value from air spaces around fibers. These air spaces can absorb moisture. In new CELRAMIC-BOARD, moisture never touches the sealed-in air.

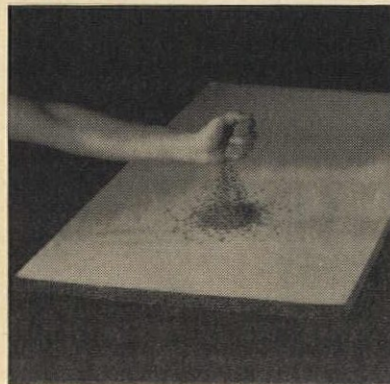
Each 2' x 4' x 1" CELRAMIC-BOARD contains thousands of these multicellular nodules in a bituminous binder. A network of tiny air passages between the nodules permits the

board to "breathe." Trapped vapor is dissipated harmlessly. No vapor pressure can collect beneath the built-up roof and cause felts to separate from the insulation. Wrinkling and buckling is minimized or eliminated.

CELRAMIC-BOARD cannot deteriorate. Laboratory tests have proven its ability to withstand all normal roofing hazards. It can be installed quickly and easily. Its bituminous binder makes it compatible with pitch and asphalt. It conforms to normal irregularities on decks without danger of breaking or cracking.

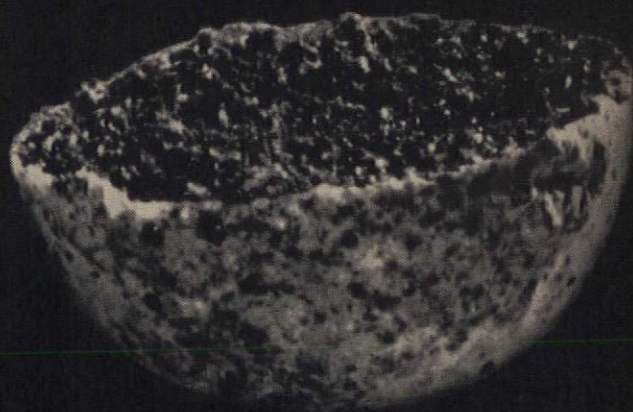
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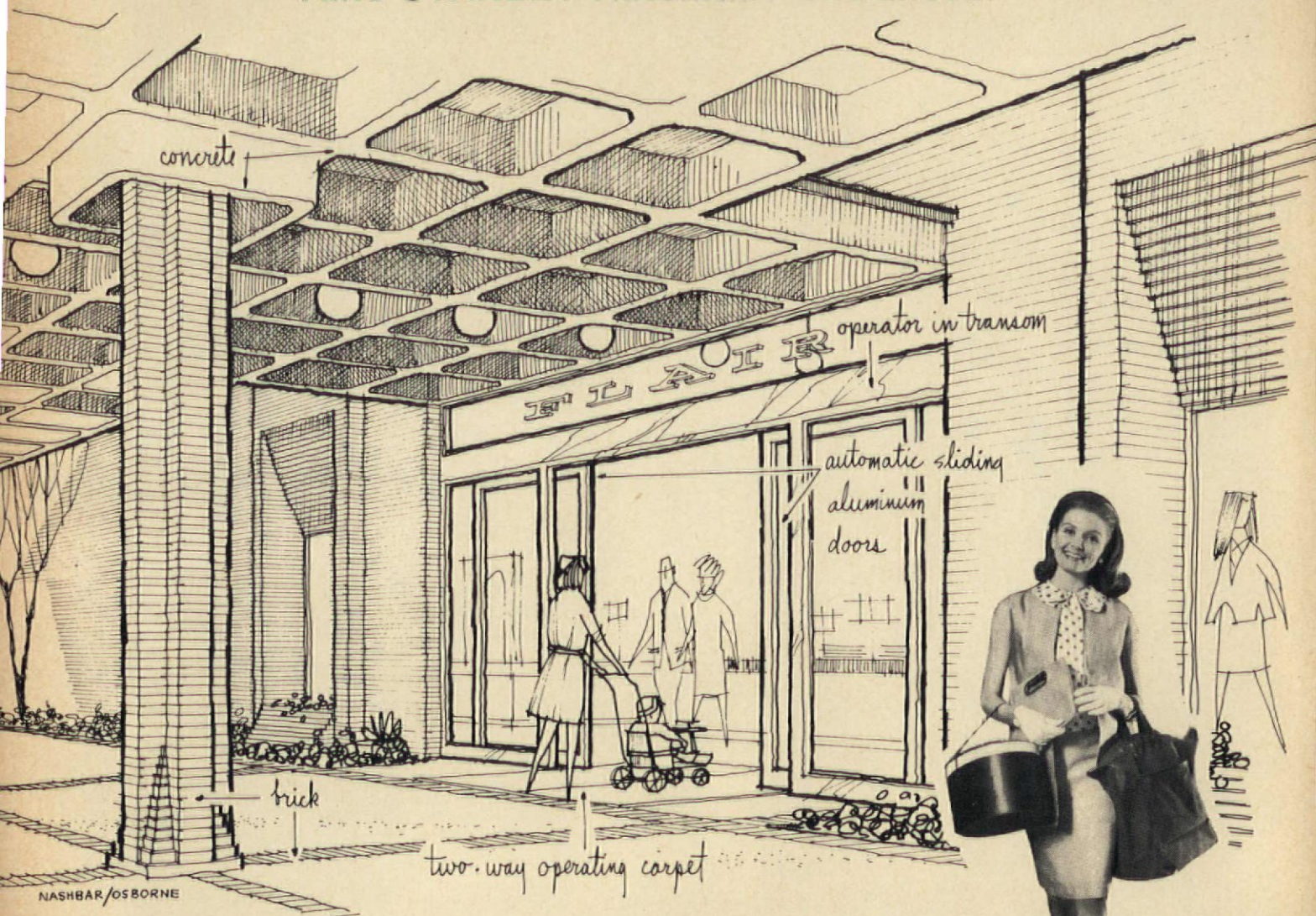
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GATEWAY FOR BALTIMORE



Photo: Gene Washnik

BALTIMORE, MD. "I think it is dramatic and exciting. It looks as if it is going to take off," said Baltimore's director of Recreation and Parks, Douglas S. Tawney. "I don't know much about the structural problems, but it sort of appeals to me," put in Park Board president Samuel Hopkins. Under discussion was Lev Zetlin's design for a bridge to cross Baltimore's inner harbor. Known as a tension bridge, it incorporates structural principles of tension used in the New York State Pavilion at the 1964-65 World's Fair, but never before in a bridge. Sets of cables strung from two Y-shaped towers at each end would evenly distribute all stress, making possible construction with only 100 lbs of steel per sq ft, much less than in con-

ventional bridges. Three roadways would carry 15 traffic lanes 65' above the water, 14 for cars and trucks, one for pedestrians.

The narrow, Y-shaped towers straddle only the middle roadway, making these Y-shaped structures, which will be either steel or concrete (Zetlin is inclined toward steel), much less bulky than conventional towers. Moreover, the system of interacting rigid cables eliminates the need for stiffening trusses and permits the use of a very thin deck, only 4' deep.

When Mayor McKeldin saw Zetlin's concept, he said simply, "This is it." But approval will not come quite so easily. Baltimore's Public Works Department is studying the design, along with more conventional proposals.

ARCHITECTURAL MODELS, ANYONE?

ST. PETERSBURG, FLA. The Museum of Fine Arts in St. Petersburg hopes to assemble an exhibition of architectural models. What it has in mind is an exhibition showing examples of great buildings throughout history, from the Parthenon to the Gothic ca-

thedrals to Lever House and Falling Water. Anyone who knows where the museum can borrow or purchase such models can write to Mrs. Robert J. Haiman, Museum of Fine Arts, 255 Beach Drive North, St. Petersburg, Fla. 33701.

ARCHITECTS EXEMPTED—AGAIN—FROM PLANNING EXAM IN NEW JERSEY

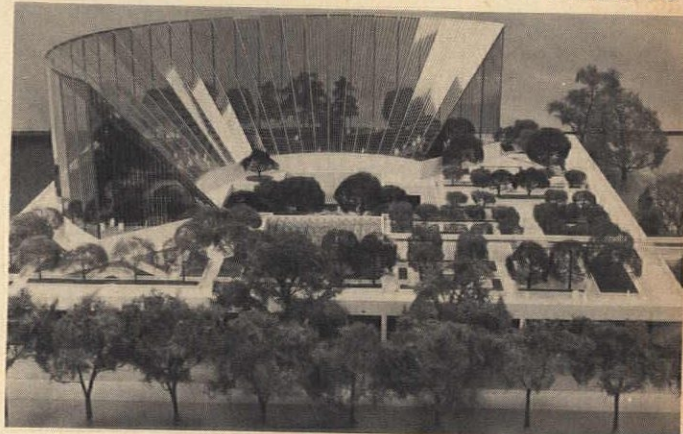
TRENTON, N.J. Can you or can't you in New Jersey? According to a decision handed down by the New Jersey Supreme Court in late February, you can—if you are a registered architect, engineer, or land surveyor—practice

planning there without taking a special examination. This decision perhaps settles an on-again-off-again dispute in which planners decided that an original 1962 planners' licensing act had been too lenient in granting examination

exemption to architects and engineers. Following a lower court decision last year (see p. 57, APRIL 1966 P/A), the paragraph granting an automatic professional planner's license to architects and engineers registered in New Jersey was stricken from the Licensing Act. Now, the paragraph is back. It is not unconstitutional, says the New Jersey Supreme Court. In part, the decision read: "We are satisfied from the legisla-

tive history and from an examination of the statute as a whole that the Legislature would not have adopted it without the exemption provision." The appeal to the Supreme Court was made by the New Jersey Consulting Engineers Council, the Consulting Engineers Council of the U.S., the American Society of Civil Engineers, and two individual CEC members affected by the lower court decision.

FISHERIES RESEARCH-EXHIBIT BUILDING



WASHINGTON, D.C. The architecture of Federal bureaus may take an unexpected turn if plans for the National Fisheries Center and Aquarium here are approved. Designed by Kevin Roche, John Dinkeloo & Associates, from a concept outlined by designer Charles Eames, the building consists of a raised, square 432 ft shell, supported on 20 ft columns from a concrete deck. Rising from one corner of this shell is a large semicircular glass enclosure above a re-creation of an ecological section of the Florida ever-

glades. The roof of the deck will be used for outdoor exhibits arranged in a garden-like setting. Within will be an aquarium, two 500-seat theaters, and main exhibit halls. In every case there will be an effort to display live organisms. "It must demonstrate a responsibility deeper than that of entertainment," comments Eames.

So far, the \$10 million building has the approval of the Fine Arts Commission and awaits only the verdict of the National Capitol Building Committee.

WASHINGTON/FINANCIAL NEWS

by E. E. HALMOS

Architectural Bids?—Efforts of architects and consulting engineers to raise the level of allowable Government fees for their services (from the present flat 6%) took an unexpected and possibly ominous turn in late March.

If the General Accounting Office insists on strict interpretations of what it says is existing law, the result could be enforcement of bidding for A-E services.

At least as serious, from the viewpoint of the professionals, is that it could mean adoption of such procedures by state and local agencies that buy A-E services—even before any action is taken by Congress or by Federal agencies.

Details of what GAO will recommend were due to be revealed officially when a full report on A-E fees was sent up to Congress in mid-March.



THE *PRESCON* MEMO *NEWS*

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PARKING GARAGE

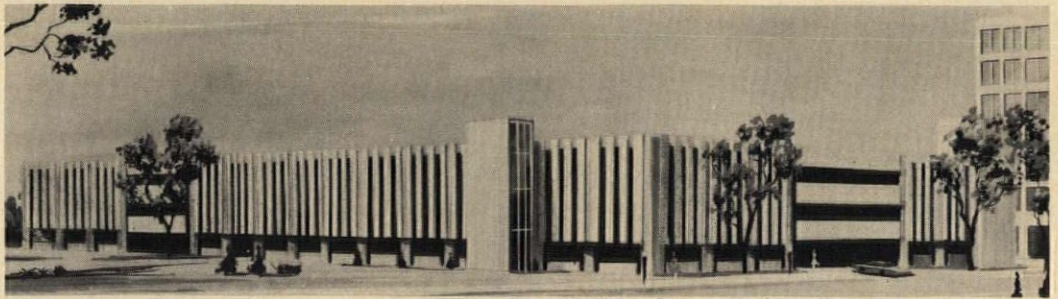
58' SPAN WITH POST-TENSIONED
23" TUBE SLAB

Cost of this five level parking facility 304' x 174', including two large rental areas, added restroom facilities, mechanical, electrical, traffic control, and landscaping was \$6.20 per sq. ft. The structure uses Prescon positive end anchorage tendons for post-tensioning prestressed concrete and the Tube Slab System, a monolithic one or two-way concrete slab using uniformly spaced large diameter hollow paper or metallic tubes to create voids in the concrete.

Designed by A. J. Macchi, Engineers, Hartford, Connecticut, it provides for one-way directional traffic with one spiral movement upward, one downward, and a level portion at the center common to both movements. The 58' spans use 20-wire Prescon tendons stressed to 165 kips. Where the slab is 174' (3 spans), 16-wire tendons were stressed to 133 kips. Tie tendons in bridging members transverse to tubes and tendons were placed at $\frac{1}{3}$ span points.

The floor slabs are 23" deep with 18" round metal tube voids at 22 $\frac{3}{4}$ " on center positioned approximately at mid-depth of the slab. This forms a 4 $\frac{3}{4}$ " rib between voids and reduces dead load to 142 psf. With a 10' floor to floor height this gives 8' 1" clear headroom. Temperature steel is used at the top and bottom of the slab. Tubes were omitted at the periphery to form solid edge beams.

Three hundred piles were used in the foundation. The exterior columns are 1' x 4', and interior columns are 4' x 3'. Double columns were used at expansion joints. In level areas the slab forms were sloped a maximum of 3" for drainage. Basement walls and pile caps used 3000 psi



New Britain, Conn., Parking Garage.

concrete; columns, slabs, and beams used 4000 psi concrete.

Two parking rows plus a 22' wide traffic aisle is provided at every level. Parking is at 60° to the traffic direction. Column-free areas facilitate self parking. Monthly patrons have separate access to parking space in the basement level.

Architectural treatment consisted of exposed aggregate precast concrete panels 3 $\frac{5}{8}$ " thick for the facade. The exterior columns and stair towers concrete has a board marked finish.

This parking garage, scheduled to open in March 1967, was built for the City of New Britain, Connecticut. A. J. Macchi invented the Tube Slab System used in this project. Angelo Tomasso Inc., New Britain, Connecticut, is the general contractor.



Pumping of concrete to form the slab. Temperature steel and tubes can be seen in place. Tendons are positioned in ribs between the tubes.

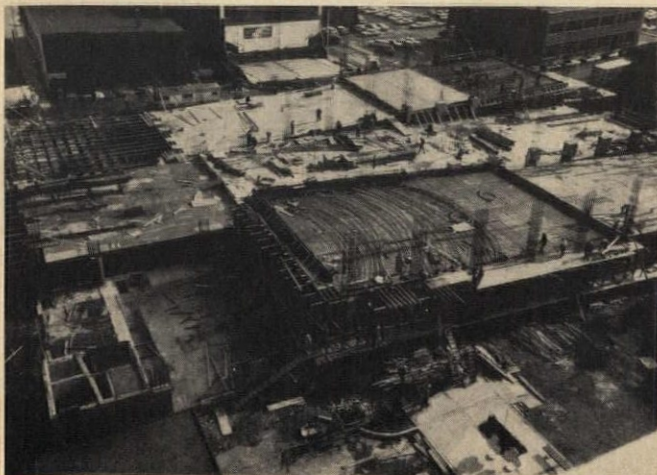
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B 67



Tendons have been uncoiled on slab forms in foreground; in upper right, part of the concrete placement has been completed with additional concrete being pumped into place.

On Readers' Service Card, Circle No. 451

"Education and the Future of the Architectural Profession." Architect **Charles Luckman** will address the theme seminar on "Architectural Practice" at the second session; New York City's **Mayor John V. Lindsay** will head the third session, on

"Design" with New York as a case study. At the final seminar, **Arthur C. Clarke** will address the seminar on "technology." . . . **Marshall McLuhan** will deliver the annual Purves Memorial Lecture at the opening of the AIA convention.

FROM ARCHITECTS COMES ART



Photo: Peter R. Bromer

Painting is about as unusual a hobby for an architect as orchid growing is for a botanist. It therefore comes as no surprise that, around the U.S. this winter, several architects had gallery showings of their paintings. As might be guessed, architects paint in all styles and media, and for subject matter they choose almost anything — except buildings.

Morris Lapidus, New York-based designer of such palaces as Miami's Fontainebleau and Americana hotels, had an exhibit at the University of Miami's Lowe Gallery that went far beyond his paintings. Included were photographs and drawings of his 40 years of architectural work. Although the Lapidus exhibit was not typical, he feels that it represents the type of "exhibit that any reputable firm can some day hope to have if all conditions are as propitious as those which brought about the Lowe Gallery exhibit."

The propitious conditions started on a plane ride from Miami to New York with University of Miami president Henry King Stanford. Receptive to the idea of the exhibit of the work of one architect, Stanford set up a meeting between Lapidus and Dr. August Freundlich, director of the Lowe Gallery. Talking of the exhibit recently, Lapidus told P/A, "The exhibit entailed a great deal of work on my part and



Photo: Nickerson Photography

would entail a great deal of work on the part of any architectural firm fortunate enough to be invited to have a major exhibit in a gallery. It entailed not only the collection of the work, but also the actual design of the exhibit itself." Lapidus and his firm had to foot the bill for additional lighting and for exhibit devices. In style, Lapidus' paintings range from the abstract to the representational (top, both columns).

Herb Greene, who had an exhibit of his paintings at the Fine Arts Gallery of the University of Arkansas, sees his painting as at least in part related to architecture. Although he recognizes strict limitations to this relationship, he states: "Outside these limitations, however, there is one motive that has influenced both my painting and architecture. This motive stems from the consideration of how events that happen independently are related to and become dependent upon each other when we attempt to understand each event."



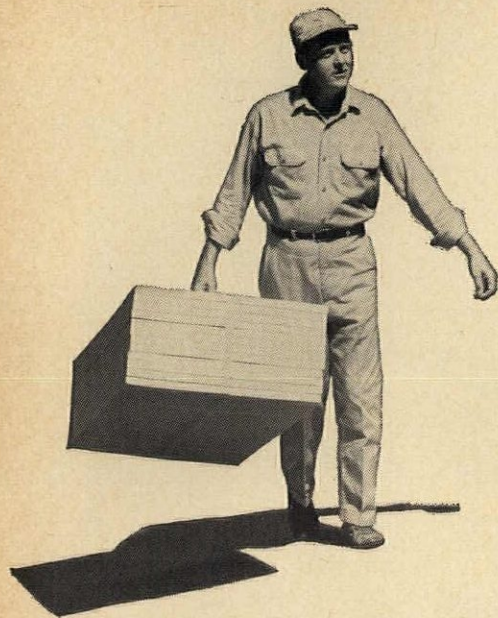
Photo: Peter A. Jubey & Son

In his current painting, Greene is involved with evoking a pattern of feelings generated by photographed events or objects. Starting with one or several photographs, such as the one of Lincoln seen here, Greene paints around and between the photos, tying them together in abstract, colored swirls, dabs, and washes or paint. Greene sees the result as exemplifying the ultimate process of cerebral understanding.

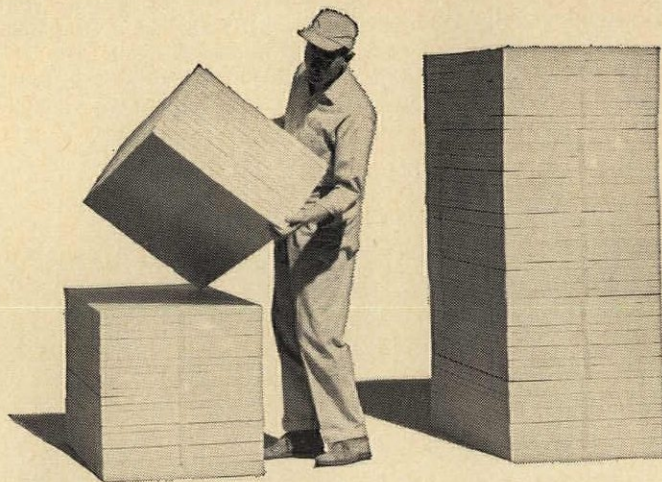
If Greene's painting can be described as a confluence, as in a dream, of abstraction and concreteness, then the pen-and-ink drawings of architect Jerry F. Weiss, whose

show hung at Cleveland's Karamu Gallery, represents an overlay of reality with abstraction. Shown here is "Sand Beach Cove" (middle).

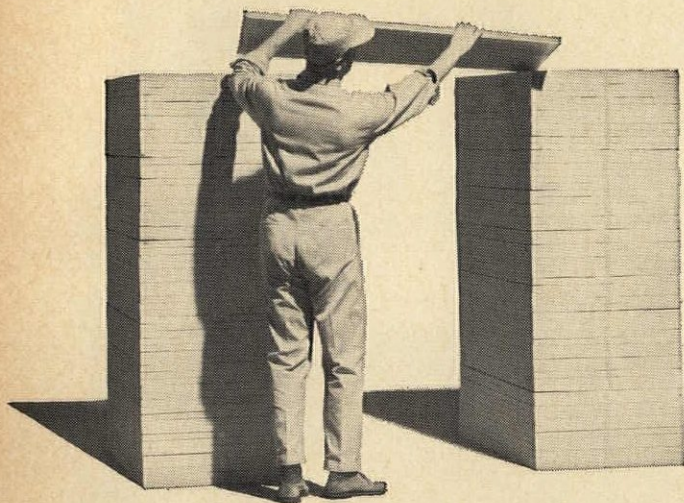
Architect J. Walter Carr, whose watercolors were on display recently at Manhattan's Grand Central Galleries, picks as subjects people, boats, and the sea. In 1964, he spent three weeks aboard the aircraft carrier U.S.S. Essex as combat artist in the antisubmarine warfare games in the North Atlantic. Of the four architect-artists shown here, his paintings and his building design are probably the most representational. "Rafting Tugs" is seen above.



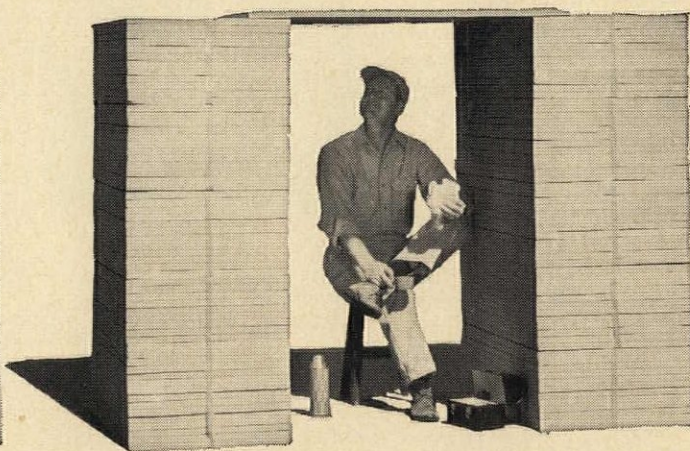
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slab containing supporting facilities for the State Assembly and Senate; a five-story rectangular office building, rising from the horizontal slabs' northeast corner; and two conical elements, connected by a glass-walled foyer, that rise above the Senate and Assembly chambers.

The added legislative space

is badly needed, for the current State House quarters are already overcrowded; by 1968, the New Jersey Senate will expand from 29 members to 40, the Assembly from 60 to 80 members. Grad estimates the completion of phases one and two would cost about \$10,500,000; the third phase, \$4,750,000.

HONOLULU CHAPTER AIA AWARDS

HONOLULU, HAWAII. In its annual awards program, the Hawaii Chapter, AIA, presented seven honor awards to six local architectural firms for outstanding work. Serving as jurors were last year's winners: Kenneth Akiyama, Richard Dennis, Frank Robert, Edward Sullam, and John Tatom. In addition, the Chapter presented its Allied Arts Award to Jean Charlot "for his continuing outstanding contributions as artist, teacher and critic."



Ala Moana shop, Great Things, by Thomas O. Wells.

Photo: Herbert Bauer



Charles G. Rolles residence at Waialae-Iki, by architect Thomas O. Wells.

Photo: R. Wenkam

Pago Pago International Hotel in American Samoa, by Wimberly, Whisenand, Allison & Tong.

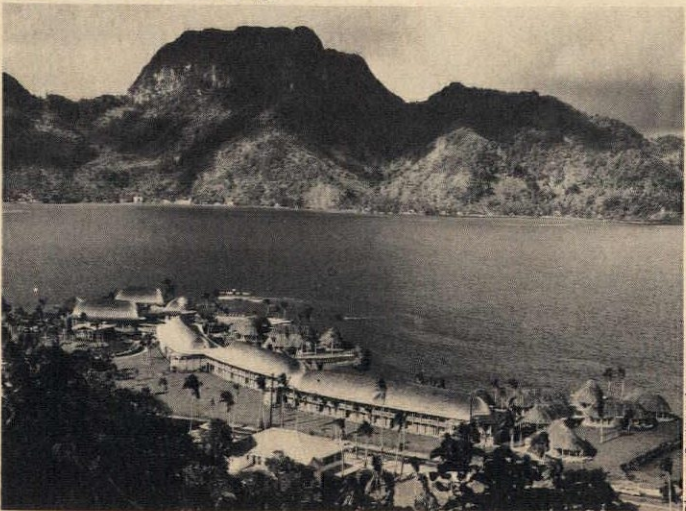


Photo: R. Wenkam



Residence of Mr. and Mrs. John Bolman, by architect Charles J. W. Chamberland.

Photo: James Y. Young



Pearl City Branch of the First National Bank of Hawaii, by architect Hadyn H. Phillips.

Photo: James Y. Young



City Bank of Honolulu main office, by architects M. Takashi Anbe & Associates and Walter M. Tagawa & Associates.

Photo: R. Wenkam



The Marc Seastrom for the Gard and Mary Jewelry Shop at Ala Moana Center, by architects Vladimir Ossipoff.

Photo: Nelson, Zellers

PERSONALITIES

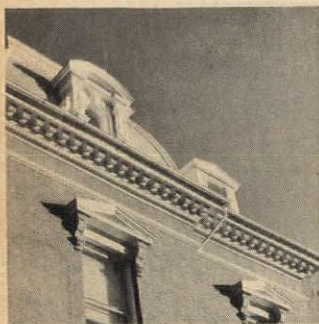
Six men have been selected by the AIA to receive honorary membership in the Institute at its annual convention, to be held May 14-18 in New York City. For their "distinguished service to the profession of architecture or to the arts and sciences allied therewith," the AIA will bestow honors upon **Joseph F. Addonizio**, executive director of the New York State Association of Architects; **John D. Entenza**, executive director of the Graham Foundation for Advanced Studies in the Fine Arts; **James V. Fenelon**, executive director of the Minnesota Society of Architects;

John Erik Jonsson, Honorary Chairman of the Board, Texas Instruments Inc.; **Edgar Kaufmann, Jr.**, adjunct professor of architecture at Columbia University and author of five books on Frank Lloyd Wright; and **Denton Murdoch Spruance**, lithographer, painter, and chairman of the Fine Arts Department of Beaver College. . . . In anticipation of its annual convention, the AIA has also announced four "theme" speakers, who will deliver lectures at the convention's afternoon sessions. The first of these sessions will be headed by **Dr. Harold Taylor**, whose topic will be

for use as a State office building. The Vermont Historical Society would use the ground floor for its museum and offices, and would reconstruct some of the old Victorian interiors within the new steel framework. But the State Leg-

islature is not certain it wants to retain the Pavilion, even if it would save money, and the Montpelier town fathers are concerned with the potential loss of tax revenue from the valuable site.

Whether or not funds will be forthcoming for renovation will be decided by the legislature this year. Old-time legislators can recall meeting with the Governor in the Pavilion, which came to be known as the Third House. And the hotel even withstood the waters of the 1927 flood, which ran 12' deep outside on State Street. No one knows whether it can withstand legislation.



TOWARD INTERNATIONAL STYLE

LONDON, ENGLAND. If architecture is frozen music, or even if it isn't, an architect should be able to practice his profession in a foreign country as easily as, say, a pianist can. The premise is sound, but current national restrictions make the premise look like a mirage seen through a minefield. To do something about it, representatives of eight professional architectural groups, which in turn represented some 89 countries, met recently in London.

Stated objective of the meeting was to agree, as an initial step, to solve the problem between the United Kingdom and the United States. These countries are best suited to a freer exchange of architectural talent because of similarities in education and professional regulations.

According to C.J. Paderewski, who, as chairman of the National Council of Architectural Registration

Boards, was one of the U.S. representatives and also P/A's official reporter, the meeting "was an extremely cordial one and all those present were anxious from the start to reach agreement and place as few impediments as possible in the way of agreement." In fact, an initial accord was reached by the NCARB representatives and those of the Architectural Registration Council of the United Kingdom—one that could lead to a much freer interchange of architects between the two countries. Each group will recommend to its parent body that registered architects be allowed to practice in either country, provided they pass an examination testing their professional background. Representatives also agreed to recommend that a joint committee be set up, consisting of members of both councils, to draft all necessary docu-

mentation as well as to prepare the procedure of implementation.

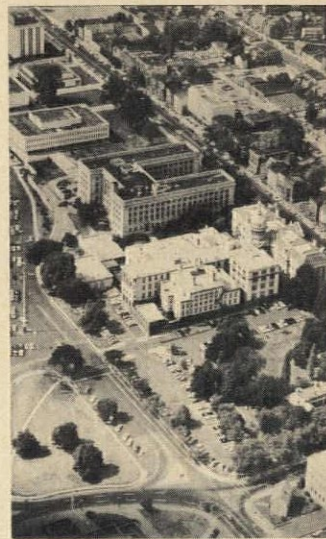
Paderewski, for one, was optimistic about the outcome. "We are," he reported, "most enthusiastic about this breakthrough in relations between architects on an international level and are hopeful that similar agreement will soon be reached with all countries

that have educational and pre-registration requirements equal or similar to those of the United Kingdom and the United States."

It is hoped that, eventually, countries not having similar standards and requirements will achieve them, thus laying the foundation for a truly worldwide interchange of architects.

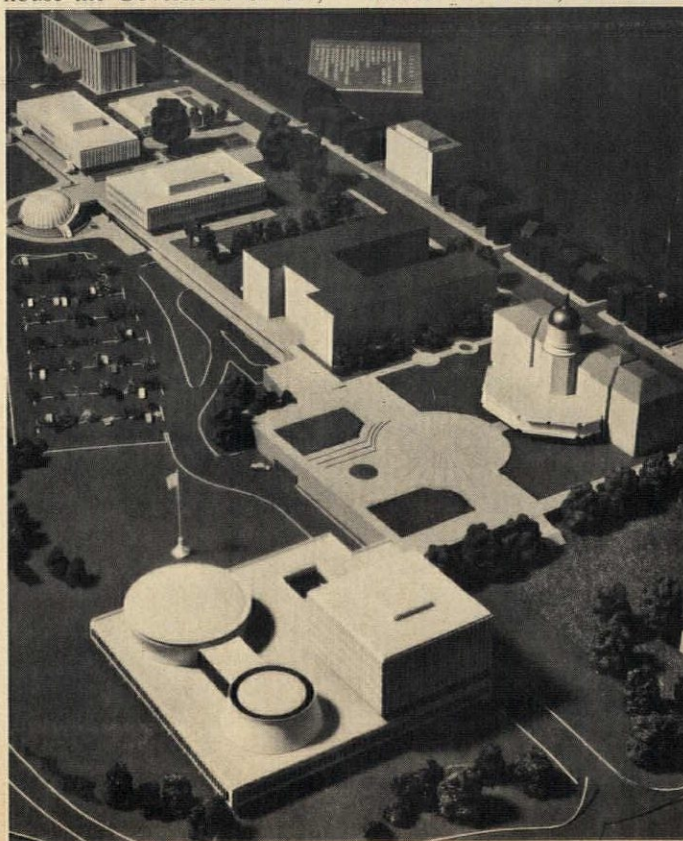
CUTTING CAPITOL CLUTTER

TRENTON, N.J. A plan that would go a long way toward reducing the clutter that has become the New Jersey State Capitol complex was proposed recently by the State Capitol Development Commission. Prepared by Newark architects Frank Grad & Sons, the proposal calls for a three-step program. In the first phase, a new legislative building would be constructed. Immediately following its completion, the annexes and wings that have been added haphazardly to the State House, just south of that building's rotunda, would be demolished and the area turned into a landscaped plaza, beneath which would be parking for 550 cars. In the third and final phase, a fan-shaped structure would be erected around the south face of the State House rotunda to house the Governor's Offices,



a memorial to Woodrow Wilson, and a New Jersey Hall of Governors.

Grad's plans for the new legislative building show a building with four distinct elements: a raised, horizontal



Army division) would become one — the Housing and Development Administration, under the control of an administrator responsible for all city building. In all, the Mayor called for 12 of these superagencies.

In December 1966, Lindsay presented a bill detailing his reorganization to the City Council. Hearings are now being held in front of each of the many separate agencies involved. If the bill passes the very hurdle it is set up

to eliminate, those 49 steps now confronting builders may be cut to 24. A consolidated housing agency alone could save the city an immediate \$500,000 a year, and the ultimate savings and advantages are incalculable.

As city bureaucracies throughout the country grow fat on their own self-indulgence, New York's regrouping, patterned, of course, after the Federal system, will certainly be worth watching closely.

... WHILE THE MAYOR KEEPS HIS FINGER IN THE DIKE

In the meantime, Mayor Lindsay is doing what he can to cut bureaucratic red tape. His personal intervention becomes a haphazard operation, of course, seen, like Harvey the Pooka, only now and then by some people in some places. One example was reported in *The New York Times* last month. A young travel agent and his wife were faced with eviction from an old wooden farmhouse, hemmed in by hospitals and apartment houses, which has somehow survived since the 18th Century on Manhattan's Upper East Side. The Roman Catholic Archdiocese of New York owned the land beneath the house, and it wanted it for a home for the aged. The couple, on the other hand, liked *their* home and wanted to save it. With

the aid of architect William C. Shopsin, they found a vacant lot in Greenwich Village, then decided to move the house — all 12 tons of it — through five miles of city streets to the new site. The move, however, wasn't that easily accomplished, for it required the permission of about 10 city agencies. Despite several extensions of the original eviction deadline by the archdiocese, no final word came from the city. Only a last-minute letter from the Manhattan Borough President to the Mayor, telling of the efforts to save "the unusual and historically valuable building," provided the catalyst that unraveled the burly snarls of bureaucratic indifference. All the house needs now is a foundation under it — and a new porch.

HORSING AROUND IN CENTRAL PARK

NEW YORK, N.Y. Like true love, the course of good design does not run smooth. When Kelly & Gruzen won the \$10,000 first prize in a closed competition to design a police station, stable, and exercise ring for police horses (see p. 64, MARCH 1967 P/A) in Central Park, most observers thought the plan a happy marriage of parkland and necessary law enforcement facilities. Now, because of cavillers who could not forever hold their peace, the marriage will not take place as planned — not completely, anyway. Some thought Parks Commissioner Hoving was providing riding facilities for his rich friends in Westbury. "I don't even have any friends in Westbury" snapped Hov-

ing. The plan called for two riding rings: One, on top, ringed by an earth berm for public use, and a smaller one below for police use. Now, because of pressure brought by the City Council and the Board of Estimate, the upper ring is being scrapped. "We will take off the top ring and reduce the size of the one under it," says Hoving, "so that those fools who call it a polo field can put an end to this mendacious talk."

Not incidentally, the removal of the upper ring will probably save some parkland from the encroachment of unsuspecting horses. Parks are, after all, for people — though not, according to the plan's detractors, for people who like horses.

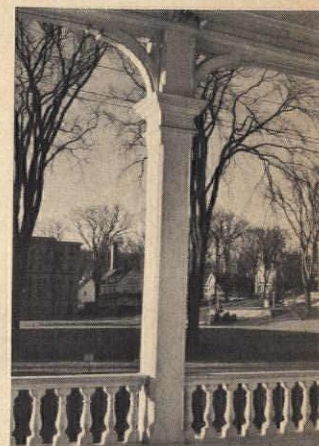
PRESERVING THE PAVILION



Photos: Robert Burley

MONTPELIER, VT. In 1808, when the Vermont Legislature first met in Montpelier, many of the legislators stayed at Davis Tavern, a solid, brick-walled structure next to the State House. In 1829, the tavern was enlarged by Mahlon Cottrill, wooden verandas were added, and the name was changed to the Pavilion Hotel. The Pavilion it has been ever since, although the original building was razed in 1875 to make way for the present Pavilion. With verandas on two sides, it is considered a good example of post-Civil War Vermont architecture. Taken in conjunction with the State Tax Building across the street, which went up in 1870, it forms a pleasant gateway between the Montpelier business district and the Capitol Green.

Recently, there has been talk of razing the Pavilion once again and putting the land to better use. Many maintained that a completely new building could be built for less than it would cost to restore the old one. But no one knew for certain, and no one bothered to check — no one, that is, except Robert Burley, architect for the State's Master Plan in Montpelier. The controversy surrounding the Pavilion is somewhat reminiscent of philosophical arguments in the Middle Ages that centered on such verifiable topics as how many teeth a horse has. One monk would say 13, an-

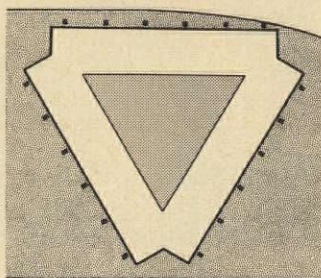
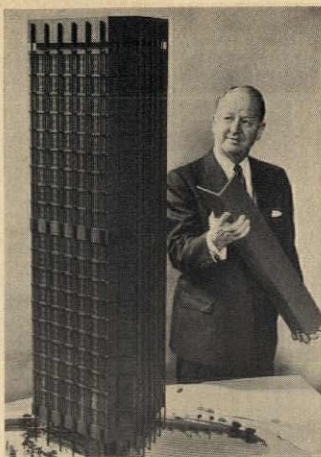


other 18, and they would discuss their viewpoints at length, but no one would think of going out to the stable, opening a horse's mouth, and counting. Burley counted. According to his calculations, the wooden interior of the Pavilion could be removed and replaced by a steel frame at a cost of \$20.86 per sq ft. This figure compares with about \$30 per sq ft for new office structures in Montpelier. Total cost of renovation, Burley believes, would be about \$1,150,000, compared to \$1,721,200 for a comparable new structure. Burley's figures impressed at least one person — a contractor who had argued for demolition. He pointed out that it was much harder to figure out how to save an old building than just tear it down and build a new one.

Last fall, the State purchased the Pavilion for \$148,000 in hopes of converting it

building will offer three rectangular office spaces (221' x 45') per floor, 2,900,000 sq ft of space in all. All ducting, elevator banks, and stairwells are in the triangularly-shaped interior core (see diagram).

One of the building's most striking innovations is its array of exposed Cor-Ten supporting columns. Standing out 3' from the weathering steel, panel and glass curtain wall, the columns are connected to the main structure at every third floor, creating, in effect, a series of three-story buildings, each with its own framing, resting on the column connections. To make the columns fireproof, each is filled with a mixture of water and antifreeze. Divided into four equal, vertical segments, the hollow box columns will contain about 500 gals of liquid; each segment will be fed by a separate, 2000-gal storage tank. Heat will be carried away by gravity circulation of the water; should steam develop, there will be devices allowing it to escape. According to estimates, the water will keep the column temperatures down to between 600F and



700F during fire.

Structural engineers are Worthington, Skilling, Helle & Jackson and Edwards & Hjorth; mechanical engineers are Jaros, Baum & Bolles.

NEW YORK CITY MOVES TO CLOSE THE BUREAUCRACY GAP...



NEW YORK, N.Y. Late in the evening of the day President Kennedy was assassinated, former New York Mayor Robert Wagner appeared on local television with a personal message for his constituents. It had, of course, been a harrowing day for most Americans, and so closely had television and radio focused on the events in Dallas that every-

one was feeling lost, leaderless, dejected, uncertain. Into this vacuum stepped the Mayor, the local father figure, with what many viewers hoped would be reassurance. Perhaps, they thought, by speaking of the grief felt by all New Yorkers, he could help assuage it. Instead, Wagner said that in the face of the personal tragedy we had all sustained, only skele-

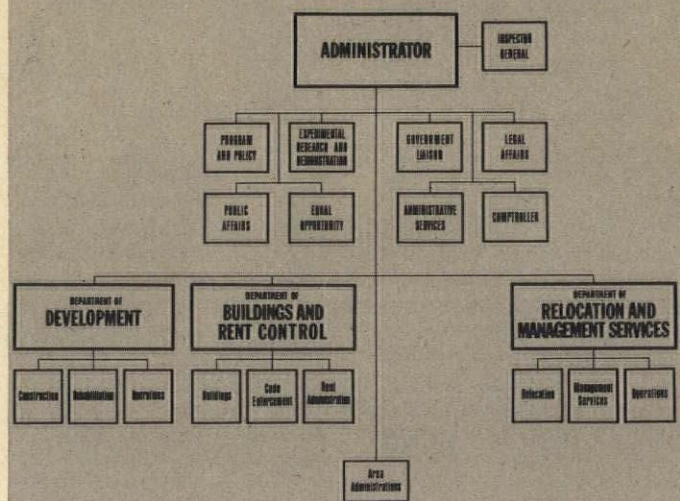
ton crews of the sanitation, fire, police, and transportation departments would report for work the following day. Other departments would have the day off: The Air Pollution Control Department, The Alcoholic Beverage Control Board, The Anti-Poverty Control Board . . . on and on went the list . . . The Board of Education, The County Clerk's office, The Board of Estimate, The Housing and Redevelopment Board, The New York City Manhattan phone directory has more than three pages of city government phone listings—about 1135 in all—and Wagner's itemization brought home, in more ways than one, the ponderousness of city government.

Over the years, New York's city agencies, bureaus, and

ings, and real estate. And eight agencies all take part in the winter emergency repair program." New York found that, not only was the system leading to inefficiency and waste, but it also was cutting the city off from Federal funds that could not filter down through the system. With no clear channel through which Federal money could pass, with hundreds of bureaucratic pockets clamoring for it, proportionately little was forthcoming. Even when the money was available, building plans languished on desks so long that they became obsolete, if they were remembered at all. New York City's backlog of building projects was the largest in the nation.

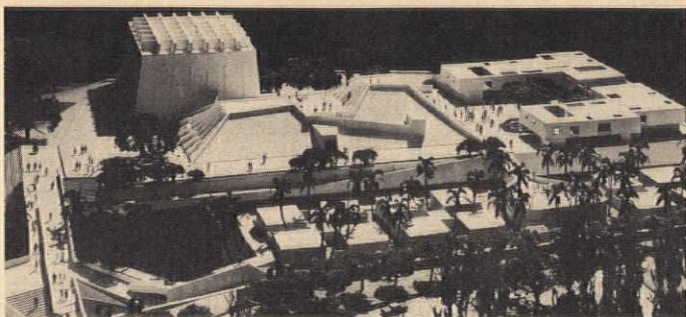
The new mayor, John V.

HOUSING AND DEVELOPMENT ADMINISTRATION



departments have become enclaves of private power, often run by their commissioners with a militant autocracy reminiscent of the way feudal lords ran serfdoms. What happens on an operative level is that if, for example, someone wants to put up a building in the city, he has to get no fewer than 49 approvals from half a dozen city offices. Sometimes this takes months, even years. And that's not all. According to Jason R. Nathan, Lindsay's newly appointed housing administrator, "Three agencies deal with hazardous buildings. Each of four agencies operates its own slum rehabilitation program. Six agencies, acting separately, all collect and use data—often the same data—on housing, build-

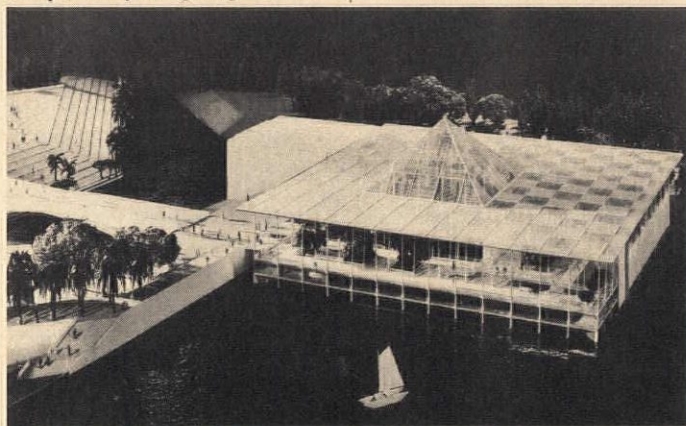
Lindsay, took almost immediate action. His task forces, as he called them, scoured the city looking for both symptoms and possible cures. Symptoms were rife. One group, which included architects Philip Johnson and I.M. Pei, concluded that the subway system was "the worst public environment in the country." Almost all reports offered the same basic recommendation: consolidate city agencies. In housing, for example, six agencies are now strung together loosely by a coordinator's office, set up under Wagner. Since the coordinator has little power, little is achieved. Under a reorganization proposal, the six agencies, with a total expense budget of \$133 million and a staff of more than 12,000 (the size of a U.S.



Breuer's Parliamentary Meeting Center.

it, a microcosmic international community. He points out that, in the areas designed by the six architects, "there will be 450 to 500 permanent residents. This isn't one of those things like a theater or football park, or something that you look up and go home at the end of the day . . . and come back in the morning and open it up. They're going to live

there. Their commissioners and ambassadors will live on the grounds. . . . We're not just going to talk about co-operation, like you have here in the United Nations. No, we're going to practice it. We're going to work together; we're going to play together; we're going to enjoy life together; we're going to learn to understand one another."



Stone's United States Pavilion.

AIA AWARDS TO BE PRESENTED AT NEW YORK CONVENTION IN MAY

WASHINGTON, D.C. The AIA's rarely awarded Architectural Firm Award will be presented this year to the Cambridge, Mass., office of Hugh Stubbins & Associates. The firm selected to receive the award, which has been bestowed only three times previously, was cited for "awareness of human needs and improvement of humane understanding, particularly as expressed in finely executed homes and schools; for perceptive integration of buildings through color and material of exterior and interior; for sensitive respect both for environment and tradition, and for the high quality of its works . . ."

The award to Hugh Stubbins' firm was one of the nine major citations announced by the AIA in advance of its annual meeting, to be held in

New York City, May 14-18.

The Citation of an Organization will be extended to the Boston Architectural Center, formed in 1889 as a club for the encouragement and mutual help in studies of those involved in or interested in architecture.

Medals honoring achievement in five specific categories will be awarded to individuals for their work in fields related to the architectural profession. Winner of the Fine Arts Medal is Costantino Nivola, of New York City, for his work in incorporating art with architecture. For his achievement in graphic design, Ivan Chermayeff of Chermayeff & Geismar Associates, also of New York, will be honored with the Industrial Arts Medal. Slated to receive the Medal for Architec-

tural Photography is William C. Hedrich, Chicago proprietor of the Hedrich-Blessing Studio. Originality and skill in textile design will be recognized in the AIA award of the Craftmanship Medal to Sister Mary Revor, chairman of the art department at Mount Mary College, Milwaukee, Wis. And Richard Kelly, New York specialist in lighting design, will accept the Allied Professions Medal for his outstanding work as a consultant on all aspects of planning, design, and specification of elements affecting visual environment. Kelly was previously the recipient of AIA awards for his work as lighting consultant on the Seagram Building and the Four Seasons Restaurant.

From among entries of 20 architectural schools, the design by Kent C. Underwood of a "Retractable Aluminum Dome" has been chosen to receive the 1967 Reynolds Alu-

minum Prize for Architectural Students. Underwood, a 22-year-old student at Ohio State University, has designed a dome composed of 12 telescoping sections that move simultaneously to enclose an area, or retract to form an exposed surface area surrounded by a handsome silhouette.

This year, the F. Stuart Fitzpatrick Memorial Award for great individual achievement on a national scale in the unification of the building industry will be bestowed on Leon Chatelain, Jr., who is a past president of the AIA. Chatelain has served on the Building Research Institute, the Construction Specifications Institute, and, as chairman, on the American Standards Association committee. His firm, Chatelain, Gauger & Nolan, was selected by the Associated General Contractors of America to design its headquarters building.

TRIANGLE FOR THE TRIANGLE



PITTSBURGH, PA. The triangle of land between the Monongahela and the Allegheny Rivers may be golden but the name of the material is steel. U.S. Steel plans to use 42,000 tons of it in the structural part of its new corporation headquarters building here. Ground was broken last month for the building, which was designed by Harrison & Abramovitz. When completed, sometime in 1970, it will be, according to U.S. Steel, the second-largest high-rise office building in the world. At 841' and 64 stories, it will be at least 20 stories taller than any other building

in Pittsburgh. Shaped in an open triangle, the building will offer three rectangular (221' x 45') office areas per floor, 2,900,000 sq ft of space in all. On the façade, the 18 exposed supporting columns will be weathering steel, and so will the mullions and spandrels. The third, thirty-fourth, sixty-third, and sixty-fourth floors will house mechanical equipment, the sixty-second floor will have a restaurant, and the roof a heliport. Below grade will be parking space for 650 cars.

Shaped triangularly with inwardly V'd corners to provide more corner office space, the

Apache Elementary School
Scottsdale, Arizona

Architect: P. E. Buchli, AIA

Structural Engineer: Sam Caruso

General Contractor: Hal Grammer
Construction Company

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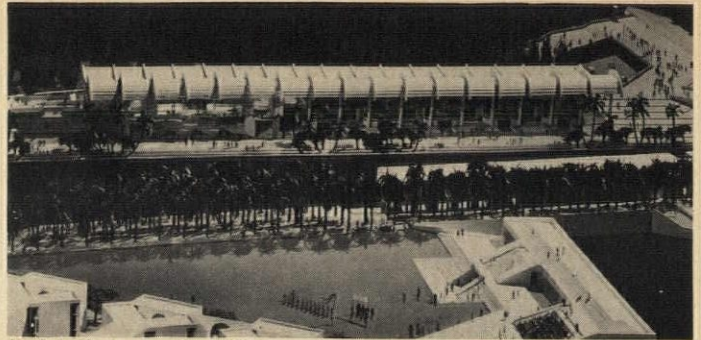
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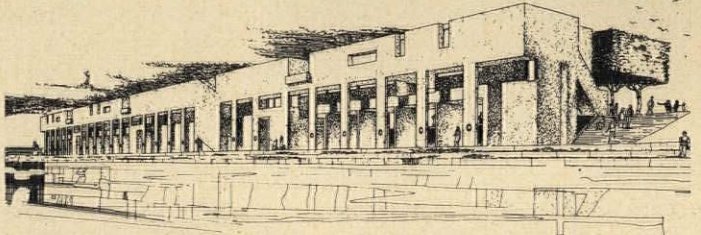
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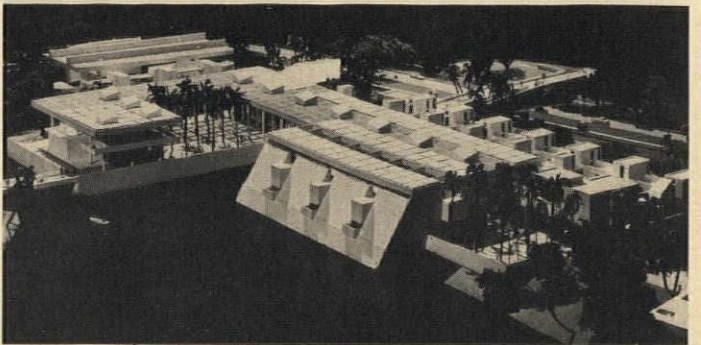
Weese's National Houses.

tunity of getting together for many years, and we didn't know how far apart we have drifted," said Dean Sert. "Fortunately, we still have general principles, and while we were working so separately, we continue to be the same and have so many things in common." A large dollop of credit for whatever the results may be should also go to Miami architect Robert Browne, who is the coordinating architect and site planner for Interama. Browne held a light rein on his designers. As Sert pointed out, "People like Bob Browne understood that we

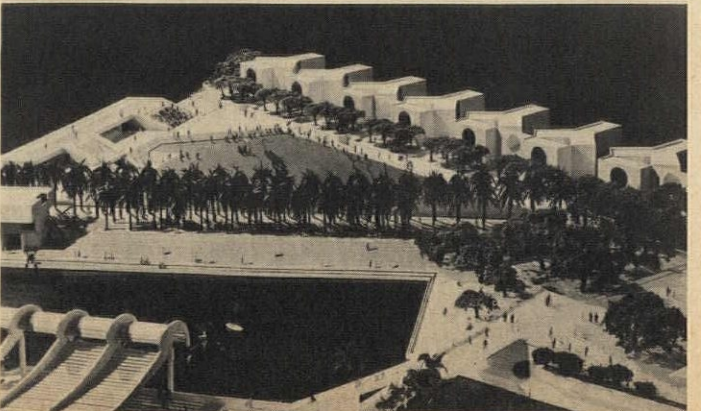
wanted to be left alone and completely free to work together to do this planning." Results of the freedom are seen here. Working drawings are in progress and most observers feel that ground will be broken at Interama by July at the latest.

Also to be included at Interama is a "theme tower," being designed by Minoru Yamasaki. At this point, Yamasaki's design, which is said to be a needle-shaped spire with a restaurant at the top, is undergoing revisions.

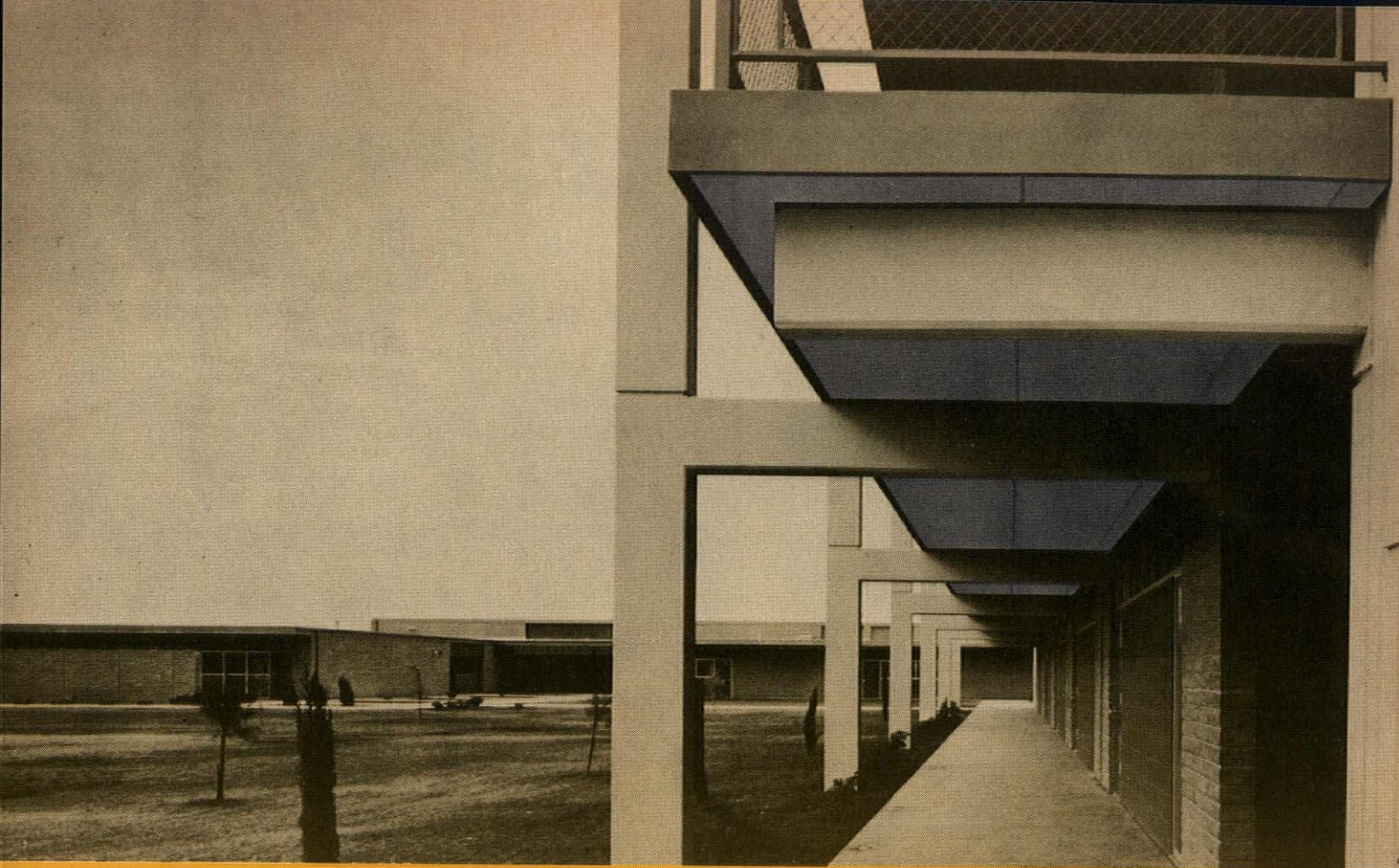
When completed, Interama will be, as Muscat envisions



Sert's Special Projection Theater.



Kahn's Ceremonial Plaza.



An \$11^{95*} per sq. ft. school with Spancrete

PRECAST PRESTRESSED CONCRETE HOLLOW CORE PLANK FOR ROOFS AND FLOORS

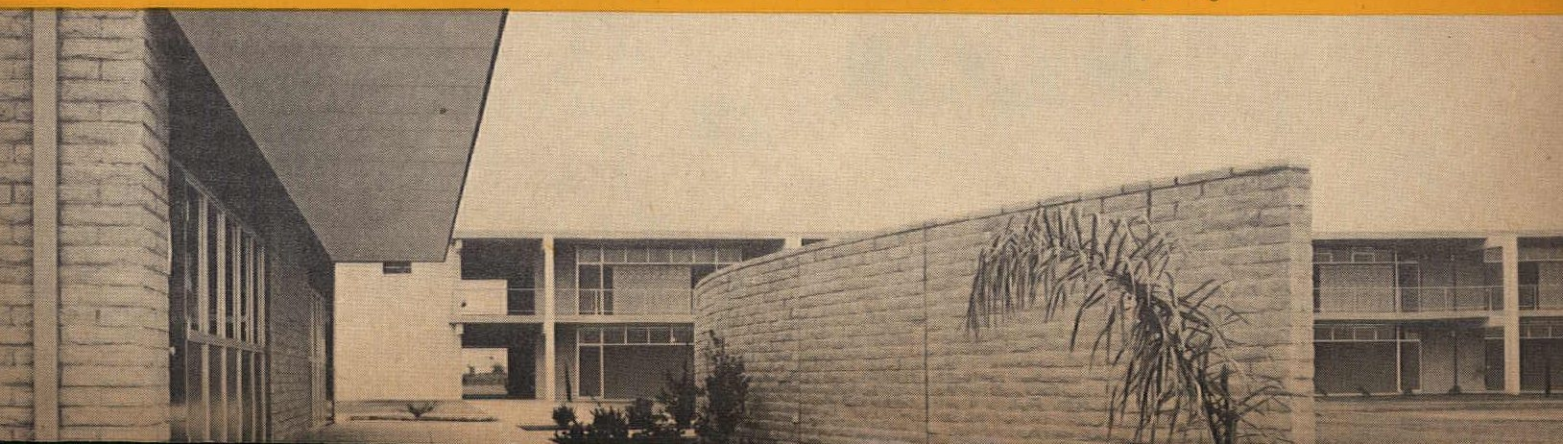
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The smooth, clean surface of the exposed Spancrete soffits and walkways required no further finishing.

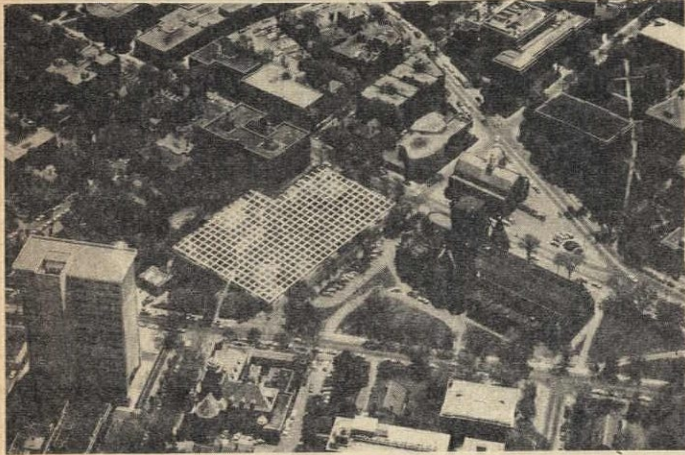


P/A NEWS REPORT

Progressive Architecture's Monthly Digest of Buildings, Projects, People and Products

April 1967

BUILDING PLANNED FOR HARVARD'S GRADUATE SCHOOL OF DESIGN



CAMBRIDGE, MASS. Harvard University has most of the funds, a name, and a site for a \$6 million center for architecture, city and regional planning, urban design, and landscape architecture. It will be called George Gund Hall, after the late Cleveland banker-industrialist who was long active in Harvard affairs.

Grants from the Gund family, the George Gund Foundation, the Department of Health, Education and Welfare, plus money to be realized by a transfer of Uni-

versity property leave only about \$1,500,000 to be raised. Consolidated in the new facility will be all the activities of the Graduate School of Design.

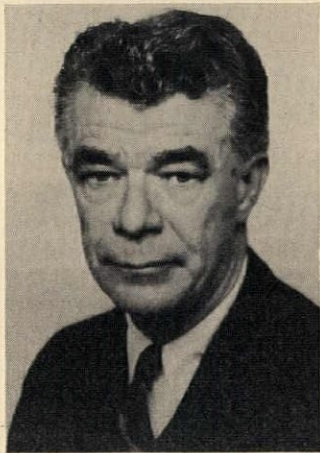
George Gund Hall will be located on Quincy Street across from Memorial Hall and adjacent to Yamasaki's William James Hall for the behavioral sciences (see site photo).

As P/A goes to press, Harvard's Corporate Board has yet to decide how an architect will be selected.

DANES TO LEAVE DEANSHIP AT YALE

NEW HAVEN, CONN. Dean of Yale University's School of Art and Architecture, Gibson A. Danes, will leave his post July 1 to take over as Dean of Visual Arts at Westchester Community College, Purchase, N.Y., a new campus in the State University of New York system. In switching, Dean Danes leaves the nation's oldest collegiate school of art (Yale's was set up in 1866) to head the newest (the Purchase campus opens officially in 1970). He will be responsible, initially, for preparing a curriculum and for recruiting a staff.

Danes' career in the arts stretches back to 1936, when he received his B.F.A. from the Chicago Art Institute. From 1952 to 1955, he was chairman of the UCLA De-



partment of Art and he was acting Dean of the UCLA College of Applied Arts in 1955. He has been Dean at Yale since 1958. Yale is forming a committee to find a successor for Danes by September.

FDR MEMORIAL COMMISSION PUSHES BREUER DESIGN

WASHINGTON, D.C. Although turned down by the Fine Arts Commission, the Marcel Breuer-Herbert Beckhard design for a Franklin Delano Roosevelt Memorial is getting strong support. The newly elected chairman of the FDR Memorial Commission, Minnesota Senator Eugene McCarthy, plans to put forward resolutions in both houses of

Congress, announcing intent to proceed with the Breuer-Beckhard design. According to McCarthy, "The Fine Arts Commission will be able to present its position during committee hearings by the appropriate committee of Congress." McCarthy says he hopes to have the resolutions ready by the beginning of April.

*I*N*T*E*R*A*M*A*



Sert, Rudolph, Breuer, Kahn, Weese, Stone.

MIAMI, FLA. As every good Taoist knows, "Oneness is all." And Interama, the permanent inter-American exposition "for the people, governments, industries, cultural groups, sports, and leisure activities of the Western Hemisphere," which is being constructed on landfill island between Miami and Miami Beach is, perhaps ironically, setting out to attain one of the ultimate precepts of Chinese philosophy. "The atmosphere of this mission of talent," said Louis Kahn, in explaining his cooperation on the project with architects Breuer, Rudolph, Sert, Stone, and Weese, "was that every man wanted most of all to be one, and we all *were* all one."

Since the idea of an inter-American trade and cultural

center (first proposed in 1918) was actively revived in 1961, under the leadership of Dr. Irving Muscat (see p. 57, MARCH 1966 P/A), Interama has attracted the notice, if not always the support, of visionaries and skeptics. It is a tribute to Muscat's determination and diplomatic skill that not only is the vision nearing reality, but also that he was able both to obtain and contain this wealth of architectural talent.

Each architect was assigned the design of an individual building or a cluster of buildings on a predetermined site, and speaking of the cooperative experience, as plans were announced in late February, each architect seemed genuinely pleased with the results of the cooperation. "We hadn't had this oppor-