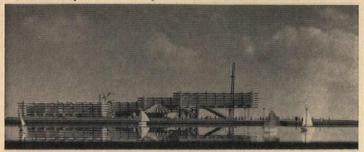
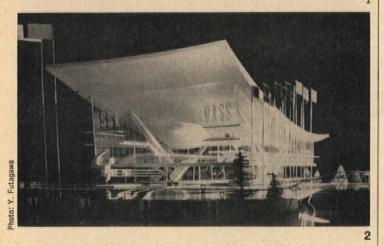
PROGRESSIVE ARCHITECTURE MARCH 1966

NEWS REPORT

Architecture's Monthly News Digest of Buildings and Projects, Personalities, New Products

Expo '67: Japan and Russia Enter





MONTREAL, CANADA Work on the site of Expo '67 is proceeding at a steady pace in preparation for the opening of the next world's fair a year from this April. Shown here are models of the Japanese (1) and U.S.S.R. (2) pavilions. Both are scheduled for completion this fall.

The Japanese contribution, designed by Tokyo architect Yoshinobu Ashihara, will use Japanese-manufactured prestressed concrete beams for quick assembly and dismantlement.

The Soviet pavilion, designed by R. R. Kliks, A. A. Mndoyants and A. N. Kondratiev, of Moscow, will be a large, prefabricated structure (which reportedly will use enough steel

to build a 30-story building) containing a 600-seat theater, restaurants, bars, and exhibit areas. A key attraction should be "Cosmos Hall," where visitors will be invited to experience the sense of weightlessness, a sort of do-it-yourself space-feel. The U.S. pavilion (see pp. 56-58, November 1965 P/A) will also feature space exploration. The two pavilions share a remarkable similiarity of concept and presentation. In the U.S.S.R. pavilion, exhibits are set on a series of suspended levels, much like those to be used in the U.S.'s, Buckminster Fuller - TAC, transparently covered geodesic dome. And, as luck would have it, the two pavilions will face each other.

McCue Becomes Chairman at Berkeley

BERKELEY, CALIF. Gerald M. McCue, 37, a Berkeley architect and, since 1954, a member of the University of California faculty, has been named chairman of the Department of Architecture there. McCue's

firm, Gerald M. McCue & Associates, is known primarily for its design of research facilities. Among their projects are the 88" cyclotron building at the University of California's Lawrence Radiation Labora-

tory in Berkeley, the Chevron Research Laboratories and Stauffer Research Center in Richmond Calif., and the Dow Chemical Company Research Center in Walnut Creek, California. McCue and his firm are currently project architects for the Bay Area Rapid Transit District subway stations in Oakland.

McCue takes over a department of 900 students, said to be "the largest department of architecture in the English-speaking world." In announcing the appointment, Dean Martin Meyerson said: "Professor McCue has the imagination and administrative talent to lead the department in the period ahead when a new fo-cus is being developed. This means the aesthetic orientation of architecture must be wedded to an intellectual one as well. In the process, the department must develop the closest ties with other fields in technology, the humanities, and the social and natural sciences." What

Meyerson was referring to is a revision of Berkeley's architectural curriculum, to take effect in the fall. Instead of a five-year program, the department will offer one that runs four years plus two. First three years will include heavy dollops of liberal arts courses.



The fourth will concentrate on structure and design. Following the fourth year, a B.A. will probably be awarded; and at the end of two more, which will concentrate on advanced structure and design, an M.A. will be granted.

Chandelier for Seattle



SEATTLE, WASH. "At night, with its illuminated plaza, it will become Seattle's chandelier," Pietro Belluschi, consulting architect for the headquarters building of the Seattle First National Bank, is quoted as saying. Whether or not it becomes a chandelier, the \$28-million building, scheduled to get under way in August, will





radically alter Seattle's skyline. At 50 stories, it will be Seattle's second-tallest building, topped only by the San Francisco Bank building now going up on an adjacent site. More than that, it will add a distinctive contemporary architectural note to a skyline almost devoid of highlights,

Architects Naramore, Bain, Brady & Johanson's design calls for a rectangular tower



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supported at the corners by four Y-shaped columns, tapering from an 18' width at ground level to a 4' width at the top, and running the equivalent of three stories below ground for maximum earthquake resistance. A core cluster of 36 steel columns provides central support.

On its façade, the building will have bronze-tinted aluminum mullions and bronze-tinted windows. About two thirds of the site, which takes in an entire city block, will be an open plaza (built up at one end to level the sloping site), landscaped with trees, shrubs, fountains, and reflecting pools. On the lower edge of the sloping site will be a 32'-high, glass-enclosed lobby. Parking on three levels will accommodate 600 cars. The top story will contain a public restaurant and observation lounge with a view rivaling that of the Space Needle. The roof will house a heliport.

Brainstorming the Roosevelt Memorial

WASHINGTON, D.C. Tucked away in President Johnsons' current budget message is an appropriation of \$50,000 for the design of a memorial to Franklin D. Roosevelt. The original competition-winning design, by Pedersen, Tilney, Hoberman, Wasserman, Beer, foundered

on the rocks of controversy thrown up by the Roosevelt family (see p. 59, August 1964 P/A). Now, according to Rep. Eugene J. Keogh, a design will be determined by "sounding out" 10 to 15 leading architects, and using a compilation of their ideas.

Look What the Stork Left

NEW YORK, N.Y. The days of the Stork Club (1934-1965) are over. The famous watering spot and haven for café society, writers and starlets, has closed its doors, the land sold from under it to be turned into a park. From the 30's to the late 50's, this was, as frequenter Walter Winchell put it, "the Newyorkiest place in town." Here Grace Kelly announced her engagement to Prince Rainer; Hemingway and Louis Untermeyer had their famous fist fight (Untermeyer accused Hemingway of not having hair on his chest, so Hemingway took off his shirt and poked him); here Ethel Merman had her own waiter whose sole duty it was to light her cigarettes. Dorothy Lamour, J. Edgar Hoover, the Duke of Windsor, Al Jolson,



Brenda Frazier, Tallulah Bankhead, Tommy Manville—they all enjoyed the glamour of the club and the favors of its owner, one-time bootlegger and Leavenworth resident, Sherman ("Sherm") Billingsley.

During the heyday of the Stork Club, Billingsley catered to these celebrities, who brought in the dollar-bearing tourists the way chimpanzees at zoos bring in kids with peanuts. Those he liked or needed were rewarded. And gifts of flowers, perfume, vintage champagne—even cars (some two dozen were given away during his reign)—were not unusual tokens of his esteem. Those who crossed him were treated accordingly. The most famous banishment was that

Plaza, after Paley's father, will be the first vest pocket park in midtown Manhattan.

The 42'x100' park, designed by the New York firm of Zion and Breen Associated (Robert Zion, partner-in-charge), will have 24 full-grown locust trees spaced at 10' intervals and leading back to a high "water wall" in the rear. This miniature waterfall will have water



of Humphrey Bogart, who had the dinstinction of being the only man on record to say "You stink" to Sherm's face.

Today, the names and faces that made the Stork Club what it was have gone away or grown old. And the peculiar mixture of extravaganza and frivolity that was the Stork Club's stock in trade is no longer wanted. When it was forced to close its doors last October, the club announced it would relocate. No one really believes it will.

The club is now within days of being completely demolished. The land that once sported the frenzied energy of café society will become a place of comfort and rest for the footsore and weary. CBS Chairman William S. Paley has set up the Greenpark Foundation to finance and maintain the park. The park, to be known as the Samuel Paley

running continually over jagexposed aggregate-a soothing respite to the cacophony of New York streets. Arches and mirrored paneling will be used on the side walls to increase the spaciousness of this tiny retreat. The park will also have a Philip Johnsondesigned refreshment stand. Individual chairs, the steps, and low side walls will provide the seating for those who wish to linger. Paley hopes that, in the future, occasional concerts and art exhibits can be held here.

The cost of this project, which has been "set aside for the enjoyment of the people of New York," is estimated at \$1 million, with three-fourths of the money going for the purchase of the land. By June or July of this year, the park should be functioning on a full-time (8 A. M. to 10 P. M.) schedule.

Mass Transit Gloria Mundi

NEW YORK, N.Y. "We're trying out the Los Angeles method of transportation in New York," said New York architect William Conklin, speaking at P/A's 13th Annual Design Awards luncheon in Los Angeles. And although Conklin's jest drew a well-deserved laugh from his West Coast audience, it would probably not have fared so well in New York.

By January 10, the day of the luncheon, New York was in its second week of the 12-day mass transit strike, and tempers were growing short. Probably never before had it been so apparent how dependent today's crowded urban centers are on mass transportation. Thus deprived, New York came almost to a standstill, its streets clogged with cars inch-

ing through a 10-hour long rush hour, its sidewalks overflowing with mobs of trudging pedestrians, its business concerns losing an estimated \$50 million a day. Obviously, what New York does not need is Traffic Commissioner Henry Barnes' suggestion for more parking garages. (One proposal calls for spending \$34 million on them.) It is almost as if the automobile were a biological organism with a life of its own. Efforts to placate it, to make conditions more pleasant for it, only lead to its proliferation, the way rabbits multiply in a new cabbage patch.

New York's problems are, of course, magnified by the compact area of its Manhattan business districts. While a single subway track can bring 60,000 persons per hour into Manhattan from Brooklyn or the Bronx, a single lane of the Lincoln Tunnel can bring in only 8,700 cars and buses in the same time, and a single lane of the East River Drive, only 3,300 private cars. But the greater efficiency of mass transit holds equally true for other urban centers, and slowly, belatedly, some of them are

beginning to act on this truth. Seattle, Los Angeles, Washington D.C., Detroit, and Atlanta have ambitious studies underway. San Francisco is translating its study for the Bay Area Rapid Transit District into steel rails and sleek rapid-transit cars. And although the program is currently embroiled in a gigantic political morass, it will probably be successful.

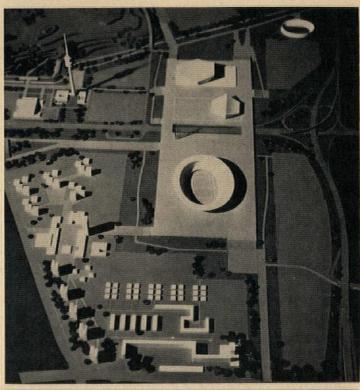
The New York transit strike, like any urban crisis, had its bright moments, visible only from a poststrike perspective. In a Brooklyn warehouse district at the foot of the Brooklyn Bridge, for example, commuters parked their cars on the sidewalks, before walking into Manhattan, giving the area a narrow-streeted, no-sidewalk European look. And outside Pennsylvania Station, policemen hailed passing motorists, had them give rides to pedestrians headed in the same direction. "What kind of a car do you want?" a policeman asked a young woman coming out of the station. "A Cadillac," she replied. "What color?" he asked. "Blue." He got her a ride. The car was not a Cadillac, but it was blue.

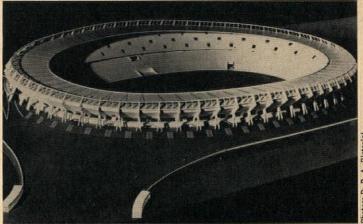
Ray Tucker, with Jacob Robbins as Professional Advisor) commended Mittelstadt's solution for its visual strength and placement as a strong symbol of civic activity.

The architect's solution (below, left) would indeed

seem a strong enough building for a city that is yearning for symbols of action and power. But in a design that seems so blatantly a pastiche of Rudolphian, Corbusian, and Wrightian forms, one wonders about this city's individuality.

Olympic Facilities for Munich?

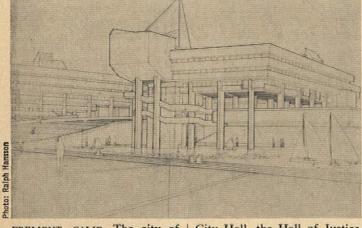




F-F-F-F-

lage housing in the foreground. Behind it, to the right, are the stadium and two halls. Behind these, at the upper right, will be a cycling stadium. And to the left, a radio tower and an ice-skating hall.

FREMONT GETS A CITY HALL



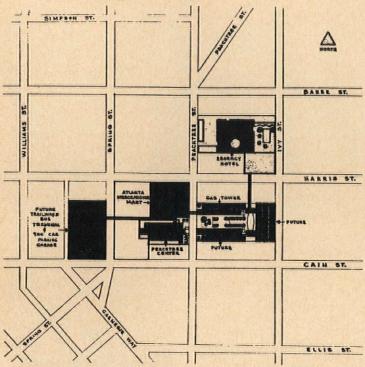
FREMONT, CALIF. The city of Fremont (population 90,000) has been looking for a city hall for all 10 years of her life. City officials did not take kindly to working in an old schoolhouse that had been condemned for educational purposes yet thought fit for governmental functions. But now things are looking up, and Fremont is getting a city hall.

In January of this year, the winner of the Fremont Civic-Cultural Competition was announced, and two weeks later the City Council unanimously approved the design of the building that will house the

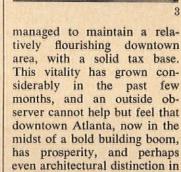
City Hall, the Hall of Justice, and other governmental offices on the 70-acre, water-bound civic center site. Winner out of a field of 66 entries is Robert J. Mittelstadt of Racine, Wisc. The 31-year old Mittelstadt, who graduated from Yale in 1964, then captured the Prix de Rome fellowship for the following year, has worked in the offices of Harry Weese, Eero Saarinen & Associates, Paul Rudolph, and is now associated with The Architects Collaborative in Rome.

The jury (made up of Pietro Belluschi, Paul Rudolph, John Merrill, Lawrence Halprin, and MUNICH, WEST GERMANY Munich hopes to host the 1972 Olympics. To back its application to the International Olympic Committee, the city plans to enlarge its sports facilities and the surrounding parking area. This will cost about \$139 million, with approximately \$20 million going for a circular stadium capable of seating close to 100,000. To be built on the former airfield, Oberwissenfeld, the area would provide parking for 10,000 cars. The model of the proposed area shows the Olympic Vil-

It's Not Sleepy Time Down South









ATLANTA, GA. With the construction of a sizeable new baseball stadium (see P/A OBSERVER), Atlanta is on the verge of acquiring a National League baseball team and the Big Time status that goes with it. In the eyes of many, however, Atlanta has been Big League for some time. While many other urban centers have lost initiative and vitality to outlying areas, Atlanta, with the help of a group of young, concerned business leaders, has

its future. With the building boom has come an awareness of good design. Several years ago, two downtown department stores-Rich's and Davison's-with the aid of pedestrian bridges across downtown streets, expanded their facilities, Rich's built an annex and connected it to the original store by a pedestrian bridge. Davison's did the same with a parking facility. Neither of these bridges was particularly handsome, and when architect-developer John Portman announced plans for a pedestrian bridge to link his Peachtree Center tower (1) with his Trailways bus terminal now under construction, controversy bloomed. In the

course of it, the combatants discovered that Portman also had plans to connect his Gas Tower building (2), now under construction, with the Merchandise Mart, across Peachtree Street, the main thoroughfare, as sacred in Atlanta as the Champs Elysée is in Paris, and immediately the controversy had a focus. For a while, Atlanta's alderman considered an ordinance that would establish guidelines for overhead bridges. Writing in the Atlanta Journal, James H. Finch, a former president of the North Georgia Chapter, AIA, said: "I object to the private bridge solution for the following reasons:

"First, Franklin Garrett, Atlanta historian, contends that our chaotic street pattern is the result of ill-advised granting of permits for new streets by early officials. These unfortunate decisions were based on official whim or pressure from powerful individuals or organizations. These influences still affect our planning and regulatory agencies. It would be regrettable if we compounded our disastrous street situation with an equally bad system of bridges.

"Second, if bridges are permitted to some, in fairness, it would be necessary to allow all to bridge. If we have numbers of bridges, past performance indicates that there will be many more ugly than handsome. We have enough ugly in Atlanta."

However, Paul Muldawer, chairman of the AIA chapter's Urban Design Committee, took this position in the Journal: "It is the opinion of the Urban Design Committee of the AIA, North Georgia chapter, that pedestrian bridges perform an important function in Atlanta's central business district and are vital to the city growth. . . . Pedestrian bridges allow downtown business facilities to expand beyond limiting street boundaries. If Rich's could not have expanded their downtown store by pedestrian bridge, they might have had to move to the suburbs. . . . Pedestrian bridges can give scale and identity to an area. . . . From below, pedestrian bridges can frame a view similar to looking through a colonnade. . . . We should all be alert to see that the city administration be extremely careful not to pass ordinances that may possibly set dangerous precedents which could inhibit or retard the growth of the central business district."

And the Atlanta Constitution, in an editorial entitled "Peachtree Street: Ribbons in Her Hair?" had pointed out earlier: "Atlanta's aldermen are considering an ordinance that would establish rules for overhead bridges. Such proposals as establishing a minimum height above the street and paying the city for the air rights are sensible. But the ordinance should not be too specific about design details, since these should depend on the site and the buildings involved. We approve of a suggestion for having a nonpolitical rotating panel of professionals pass on proposed bridge designs on an individual basis."

To an extent, the furor has subsided. Portman is building one bridge (3), from the Trailways bus terminal to the Merchandise Mart, and plans a short connecting pedestrian bridge from the Peachtree Center tower to the Mart next The aldermen have passed no restricting ordinance. But if Atlanta was not too conscious of aesthetics before, she now shows signs of a growing awareness. The mayor has formed a committee to review Atlanta's entire downtown area. And the Peachtree Center Association, composed of the largest investors in the area, brought in Hideo Sasaki, Dawson, Demay Associates, Inc. of Boston to design landscaping for an eight-block downtown area. It looks as if Atlanta, unlike many cities throughout the country, is not content to wait until it is too late to take action.

Slowly I Turn...

NIAGARA FALLS, ONTARIO An old vaudeville routine, still seen occasionally on TV, has the straight man saying something to the comic about Niagara Falls. The words seem to trigger a complex change in the comic, transforming him into a monster bent on revenge. His eyelids droop, his hands become talons; he raises his arms and stalks the straight man, saying ominously, "Slowly I turn . . ."

Slowly turning 500' above Niagara Falls is a circular restaurant set on tapered concrete legs, in the tradition of Seattle's Space Needle, Completed recently, it is the fourth observation tower at the Falls and the third on the Canadian side. It is also the tallest. Its three legs taper from a width of 37' at ground level to 17' just before they flare to meet the circular observation platform-restaurant. Engineers Farkas, Barron & Jablonsky devised a method of slip-form-





ing these tapering legs. What they did was design adjustable sides on the forms, controlled by a series of lock nuts. As the forms slid upwards, pulled by hydraulic jacks on steel rods, the nuts were tightened and the excess slip forms trimmed off. Rising at the rate of 1" every 10 minutes, the forms allowed completion of the legs in 40 days. Three outside elevators rise from the two-story exhibition-center base, riding between the legs into the observation deck. According to architects Bregman & Hamann of Toronto who designed the Niagara Internatioal Center, as it is called, an average of 200 persons can eat in the restaurant at one time. The restaurant makes one complete revolution each hour, but the kitchen, located in the core, does not. Waitresses find their moving customers with the aid of color-coded table and chairs.

How Trivial Can You Get?

Evidently Trivia (see p. 52, JANUARY 1966 P/A) is played with as much zest in drafting rooms around the country as it is in the P/A editorial officesand with greater accuracy. In response to our list of movies whose main characters were architects and the names of actors who played them, we were reminded that William Holden, not Barry Nelson, played the architect in the movie version of The Moon Is Blue. Correspondents also remembered that Henry Fonda was an architect in Twelve Angry Men.

Leslie R. Center, Jr., of Houston, wrote that the comic strip *Mickey Finn* currently has an architect in it. But that's a wholly different category: architects in comic strips. We can't think of any others. Can you?

Or Would You Rather Swing in a Crane?

NEWARK, N.J. After any major strike where the union members have obtained a significant wage increase, you hear talk in the drafting room, or at cocktail parties, that goes something like this: "Why are we wasting our time designing buildings when we could be making more money laying bricks." Announced here recently was a three-year contract signed by Local 825 of the Operating Engineers (Crane Operators) Union, A.F.L.-C.I.O. It provides top wages of \$7.75 an hour for large-crane operators, which is \$16,120 a year based on a 40-hour week. Apprentices will get only \$4.55 an hour, or \$9464 a year. Of course, crane operators do not work all year. "Our employment is seasonal," says Peter W. Weber, president of Local 825, "and we are fortunate if we work four months of the year. Under the circumstances, a man has to make a decent wage." It looks as if, in New Jersey, they're well on their

A Bang-Up Job



RICHMOND, VA. Shown at right is architect Haigh Jamgochian of this city, hard at work on his circular office building for Markel Service, Inc. The threestory structure, to be completed in the spring, has 700' of continuous aluminum siding wrapped like Indian headbands around each story. Jamgochian dents the siding with a sledgehammer while workmen on the inside secure it with screw nails at top and bottom. The reason behind all this is, as Jamgochian puts it, "to achieve a free-form, textured pattern while staying within the budget of the project." Where conventional paneling would have cost the owner \$50,000, the continuous roll, with dents, cost only \$10,000 (a sum equally divided between labor and materials). The architect also found that, because of its light weight-less than 1 lb per sq ft-this roll-on, bang-up siding saved structural steel work. The stiffness gained from folds of the texturing made undercoating the aluminum unnecessary. The speed with which the building can be enclosed—3' a



minute—also contributes to its economy. What is more, the dents and wrinkles have a structural purpose: They allow the aluminum to absorb the differences in expansion and contraction between itself and the structure.

Architect Jamgochian is still not sure of other uses for his siding technique. But he is pleased with this trial run: "The spandrels on this building are as natural-looking as the side of a mountain cliff." And they would be, if mountains were made of aluminum.

\$6 Million Adds Up to 287,000-sq-ft Math Building



Photo: Webb, Zerafa, Menkes & Matthews, Architects

WATERLOO, ONTARIO On the lower floor, behind its strong vertical structural elements, the Mathematics and Computer building for the University of Waterloo will house computer areas. Architects

Webb, Zerafa, Menkes & Matthews, Architects
Webb, Zerafa, Menkes & Matthews designed these lower elements to reflect the large scale
of the floor areas inside. This
scale is reduced on the façade
of the intermediate floors,
which hold assembly areas and

large classrooms, by the addition of broad spandrels. And on the upper two floors of the six-story structure, the small interior offices and study areas are expressed by an enclosed frame and by digital, heavyblock sunscreens. Four strong vertical service and circulation

cores break up what might otherwise be an overly repetitive façade, and at the same time tie upper and lower levels together visually. Exterior precast panels will be used extensively as permanent forms for the poured concrete frame. Construction begins this spring.

Getting There Is Not Half the Fun

PITTSBURGH, PA. Setting the tone for the First International Conference on Urban Transportation, held here on February 1-3, was part of a luncheon benediction: "Bless us as we leave the city, and help us, O Lord, as we return."

An impressive roster of speakers from government, banking, industry, education, planning was recognized as a must.

Megalopolitan centers urgently need revamping. It does not make much difference how renewed "downtown" may be if people cannot get to it from the suburbs, or move around in it after arriving. Charles Luckman, among others, suggested the "systems" approach



and architecture addressed almost 1300 attentive delegates looking for a way out of the traffic strangle.

Rapid transit (defined as public transportation on exclusive rights-of-way) held the spotlight. Problems were posed and suggestions made. What kind of system is best? How should it be financed? How about regional cooperation? Should public transit be free? What about labor and automation? Can't we get more out of what we have? And . . . how can the independent American be tempted out of his car and onto public transportation?

Several speakers said that the Federal Government should finance research and give aid to cities in trouble. Also, the Government should appoint a Secretary of Transportation to consolidate Government agencies whose functions now overlap. Cooperation between cities, counties, and states in regional to integrated planning of cities and transportation. This approach to problem analysis, which has proven so successful in the areospace program, might be the answer for city/ transit master planners.

In opting for rapid transit instead of more freeways, San Francisco leads the way toward better planning. The Bay Area Rapid Transit District expects to woo passengers with speed and comfort, although the system may not be as flexible or accessible as some planners would like.

It was generally agreed, however, that the automobile is here to stay and that the "right mix" of cars, buses, and trains is necessary. For city transportation, many speakers favored rubber tires and electric power for their noiseless, fumeless operation.

Planners are also keeping their eyes on high-speed intercity trains. Japan's Tokaido

Line is an indication of what could be done in the U.S. Similar trains, travelling at 100 mph, will soon be connecting Boston, New York, and Washington, D.C.

Wheels or tires running on rails will probably dominate the rapid transit of the immediate future, but there were tantalizing hints of "far-out" ways of getting around.

MIT has been doing research on an air-cushion type of transportation. But Professor Miller of MIT sounded a rather discouraging, yet probably realistic, note. "Transportation is not receptive to change," he said. "Therefore, technology is not rushing in to develop the industry.'

However, Westinghouse's new Skybus - automated, rubbertired cars running on elevated tracks-was taking visitors around a two-mile track at South Park outside Pittsburgh. (See photo; P/A will publish a feature article on the system next month.) And an ancillary display by Teletrans, a company promoting automated, four-passenger tube cars with electromagnetic drive, showed a system that has been proposed for Detroit.

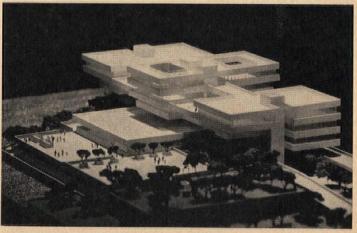
By way of a final flourish, Carnegie Tech announced the establishment of a Transportation Research Institute, which will be available to do research for just about anyone who needs it. It will also develop a transportation program at the graduate level. The staff will include representatives from the department of architecture.

At the end of the two-and-ahalf day conference, one nameless gentlemen kept repeating, "But who cares if you can move X number of people from A to B in Y time? Who cares?" We hope not too many feel so very overwhelmed.

Although self-interest on the part of Pittsburgh industry (U.S. Steel, Westinghouse, Alcoa, etc.) and the Chamber of Commerce (which sponsored the conference) was evident. the Golden Triangle City, long recognized for its interest in urban renewal, deserves a plaudit for giving a boost to transportation renewal.

The delegates went home not so much wiser in solutions. perhaps, but hopefully more aware of pitfalls and possibilities. And determined, we assume, to wean us from our

U.N. School Plans Modified



UNITED NATIONS, N.Y. Since the time architects Harrison & Abramovitz released the model photo of their United Nations International School in late January (shown here), they have made several modifications. For one thing, the auditorium and gymnasium area that appears as a slab extending from beneath the left of the model is now a separately articulated unit, on that side, connected to the main building by a narrow neck. For another, the top floor is now cantilevered out beyond the floors be-

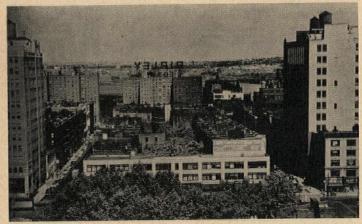
neath, which are set back at varying distances. And a student center has been added on the roof. Fifteen hundred stufrom kindergarten dents, through high school, will fill the building, with each section -high school, junior high, grade school-housed on a separate floor of the six-story structure.

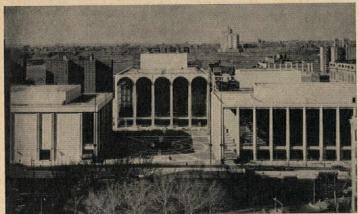
To be built on filled land in the East River, about a mile south of the United Nations site, the school will replace a pier that is now being taken down. The city is leasing the

land to the U.N. for 99 years at a dollar per year. Construction costs will be met by the Ford Foundation (\$7,500,000 for building and equipment) and the Rockefeller family (\$1 million to prepare the landfill).

One of the nicest features of the site is that it will leave unsullied the open, landscaped lawns just to the north of the U.N. building, where the school was originally going to be located.

Lincoln Center's Mirage Solidifies





NEW YORK, N.Y. With the scheduled opening of Wallace K. Harrison's Metropolitan Opera at Lincoln Center only six months away, it looks as if the Lincoln Center's financing is also nearing completion. One other structure is still to be built, of course: The Juilliard School of Music. And there are rumblings about possible need for executive space for the center, and dormitories for Juilliard. But at least temporarily, with \$165,400,000 in the capital fund, the budget seems fulfilled-or nearly so. Still needed, according to current goals, is \$1,400,000.

In 1957, when Clarence Francis (shown), chairman of the campaign committee, went to work, the goal was \$75 million. But building costs, like any other mirage, are never quite what they seem to be.

Even then, though, the goal was one that gave lesser men much apparent cause for concern. No such sum had ever been raised philanthropically



for the arts, and indeed the performing arts were in what appeared to be a TV-caused slump. Francis and his group of volunteer fund raisers, in spite of the odds, or perhaps by way of disproving them, turned in what is surely Lincoln Center's finest performance so far,

On their way to raising funds for what one periodical called "the nation's most extraordinary urban renewal project" (because the land was acquired through urban renewal machinery and because

\$40,100,000 was donated by Federal, state, and local governments), they set these records:

Greatest total of gifts by individuals to a single artistic institution: \$50 million.

Largest foundation grant to

Largest foundation grant to an artistic institution: \$25 million (Ford Foundation).

Largest total of gifts from corporations to an art center: \$10,100,000.

Largest donation from a foreign government to a single U.S. artistic institution: \$2,-500,000 from West Germany.

Moreover, fund-raising costs have been held to 1.25 per

cent of the total raised, less than the interest earned by short-term investment of the funds awaiting use.

Lincoln Center, Francis says, "has been privileged to pioneer a wholly new concept which had been widely adopted as an example of community development of cultural resources." Last month, some 35 communities throughout the U.S. with performing art centers in the building or planning stage, and 70 others with civic center projects under way that make provisions for the performing arts, were watching Lincoln Center's unusual performance.

George Washington Would Have Slept Here



NEW YORK, N.Y. The father of our country never lived to number among the Astor's celebrated guests. But just about everybody else has. This hotel -where W. C. Fields enter-tained, where Toscanini kept a landscaped suite, where General Douglas MacArthur honeymooned, where Will Rogers gathered material for his comedy routines, and where Charles Evans Hughes went to bed as President of the United States only to learn the next morning that the California returns had re-elected Woodrow Wilson-this hotel, the Astor, will soon be just a pile of disjointed bricks. This past January, developers Sam Minskoff & Sons bought the hotel property for more than \$10,-500,000 and plan to build a 40-story office building in its

William B. Astor, who, because of his extensive holdings, was called "the landlord of

New York," would have been pleased. Sometime before his death in 1875, he bought the old Medref Eden Farm for \$34,000. And many thought him a fool for investing in land that far uptown. In 1904, \$8 million of Astor money went to build a hotel on the old farm land, designed by Clinton & Russell in the French Renaissance style. When the Astor opened its doors (one for women and one for men), the rich, the established, and the well-known of New York flocked in to see the 22'-high gold and marble lobby colonnade, the 14,000 electric bulbs (making it the "most electri-fied hotel of 1904"), and the largest ball and banquet room in the country (maximum: 2500 dinners at one time). More than 15 million guests have stayed at the Astor since it opened. By the end of 1966, the last guest will have left.

The hotel's sale and the pro-

posed construction of an office building has been greeted with favor by West Side businessmen. Apart from the Allied Chemical Corporation's remodeling of the Times Tower, the office building will be the only major building project in the area for 39 years. Already an "astonishing expression" of interest has come from prospec-

tive tenants. Minskoff will have a full house.

But the Astor—the thirtythird New York hotel to close down since World War II—is more than real estate and persq-ft income. In the past, it was a generator of energy, interest, and life in the Times Square area. Without it, the Square will not be the same.

the \$4.4 million U.S. pavilion. Breuer will be architect for the Eastern Group's (Brazil, Argentina, Uruguay and Paraguay) pavilion. Sert will design the Western Group pavilion, budgeted at \$2.6 million, to house the exhibits of Venezuela, Columbia, Peru, Chile, and Bolivia. Kahn is handling the Central Group \$2.4 million pavilion (Mexico, Panama, Guatemala, Honduras, San Salvador, Costa Rica and Nica-ragua). The Caribbean pavilion (Jamaica, Haiti, Santo Domingo, Trinidad, and Tobago), at \$1.1 million, is being done by Weese. And Rudolph has contracted to design a \$2.4 million all-nations bazaar.

Browne's job is to do the site

plan (shown here), to handle landscaping, and get the architects to cooperate. This last seems a highly difficult task, but Browne is confident that the six highly individualistic architects he has commissioned will produce a "harmonious juxtaposition of harmonious buildings." He has already conducted several meetings among them and told P/A that progress is being made. All have agreed to work in white concrete.

Recently, the U.S. Senate approved a \$9.5 million Federal contribution to the project. It seems that, two years ago, LBJ, in an incidental helicopter flight over the swamp site, casually said he liked the idea.

Interama Revived Again



MIAMI, FLA. If current plans mean anything, Miami will have an Inter-American Trade and Cultural Center, a sort of permanent, limited-scale World's Fair by the end of 1967. To be known as Interama, the project is being promoted by Dr. Irving Muskat, an erstwhile scientist, who took over active leadership of the project (which has been talked about in one form or another since 1918) in 1961. Now backed by funds from a private bond issue which raised about \$20 million, plus a Federal-Government-approved loan (through the Community Facilities Administration) of approximately \$22 million, work has been done in arranging the land, 680 acres of swampland north of Miami Beach.

Also under discussion are plans for six pavilions in Interama's International Area to be designed by six leading architectural firms. All architectural work is being coordinated by Miami architect Robert B. Browne, who has engaged Marcel Breuer, José Luis Sert,

disk the second

Louis I. Kahn, Harry Weese, Paul Rudolph, and Edward Durell Stone. Stone will design

THE SKIN TRADE



Before



BOSTON, MASS. When the Roman Catholic diocese of Boston bought the New North Church in 1862, they altered its design radically and renamed it St. Stephen. Originally designed in 1804 by Charles Bulfinch, it represented his first church design. Now, under the guidance of architect Chester Wright of Waltham, Mass., the church has been restored to its original design. When he was called in to do the redesign in

1961, Wright's problem was that he had no plans from which to work. Months of architectural detective work turned up only three documents that could be useful: an 1850 woodcut perspective, a sheet of dimensions of the "New North Church," signed by Bulfinch, and a Study Perspective of the interior. The rest of what Wright needed to know turned up only as workmen began stripping off the outer skin that had been added in 1862. Some of the original finish still clung to the wide boards Bulfinch originally used. Beneath the wood onion dome of the spire was the original Paul Revere copper dome. Some of the original window frames were still intact and so were a few of the original sash. Old hand-forged nails in the brickwork gave clues about Bulfinch's applied balustrades.

Underneath what Wright calls the "horribly over-colonialized main entrance" was the outline of the original doorway. And on either side of it, two original entrances, complete with their doors, were found bricked up. The tracery of original mullions and muntins was found in spite of mutilation by substitutions.

Inside, workmen restored the ornately painted ceilings and walls to their original oyster white. The flat arches between Bulfinch's original column caps were removed. And original paneling, hidden behind 20th-Century wood and plywood, was restored. Bulfinch used only three basic moldings, varying in their size and ar-





rangement. These were recreated from fragments of the original moldings found in several places.

Probably the most complex task facing the restorers was the need to lower the building. In 1862, it had been raised 6'-9" to accommodate a basement. In 1964, the grandsons and great-grandsons of the man who had done the work in 1862 lowered the building to its original level.

On completion of the project earlier this winter, Chester Wright wrote to P/A: "After four years of research and drawing and a year and a half of construction by Thomas O'Connor & Co., of Boston, St. Stephen Church stands today as Charles Bulfinch designed it. True, steel has replaced some of the original dry-rotted framing. But from brownstone quarried from the original quarry site to Bulfinch moldings, from pews and pulpit detailed from the originals to the original organ, Charles Bulfinch's church stands in all its graciousness in the North End of Boston in 1966 as it did in 1804."

The Fifth Kling for Norfolk

NORFOLK, VA. Five years ago, this city embarked on a civic with Philadelphia venture architect Vincent G. Kling. Kling-designed civic Five buildings now stand on the 17.4-acre site set aside for the \$15 million Civic Center: a Public Safety Building; a two-Corporation Courts Building; a Utility Building; a one-story Public Services Building; and-largest so far -a 14-story Municipal Office Building (shown here adjoining the Public Services Building at ground level).

The unique feature of the



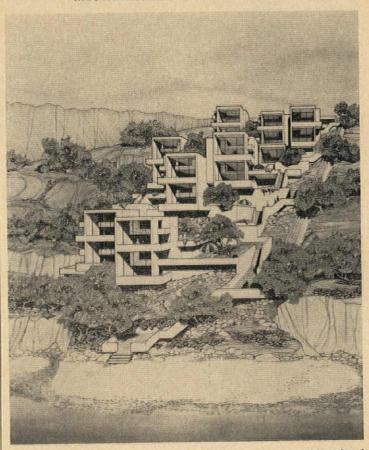
Taylor B. Lewis, Jr.

building is its window wall treatment of the 10 office floors, which cantilever over the two-story lobby base but come to a sad end with a rather heavily handled mechanical and electrical core at top. The

"sun break" wall of glass is arranged in two layers 3' apart. The inner layer is made up of 9'-high clear glass panes that are installed flush with the face of the building. The outer glass layer is supported on tubular metal frames that project from the exterior columns. The panes are heavy-duty, platetested to withstand wind forces up to 125 mph and are tinted brown to reduce solar heat and glare. Kling maintains that the tinted glass, coupled with louver sun shields and the free air convection between the two glass layers, "reduce the solar load so that the result is the equivalent of a building with only 40 per cent glass.'

Also associated in the design of the Norfolk Civic Center are Oliver & Smith of Norfolk, Associated Architects; Fraioli, Blum & Yesselman of Norfolk, Consulting Engineers; Charles S. Leopold, Inc., of Philadelphia, Consulting Engineers; and Ebasco Services, Inc., of New York, Space Planning Consultants.

Mediterranean on the Pacific



LAGUNA BEACH, CALIF. Sprawling down a steep hillside to the Pacific, these 16 duplex apartments reproduce a little of the effect of a Mediterranean seacoast town. Their white stucco exteriors help this effect, and so does the sculptural quality of their arrangement.

Terraces, both public and private, wind through the units binding them together visually and physically. These terraces and steps also provide visual relief from the vast expanse of the Pacific, which all the units face.

Known as Los Ocho, the \$270,000 project is the brainchild of eight Los Angeles actors, writers, and directors, who own eight of the units. The other eight will be sold as condominiums.

Architect is Edwin L. Fields, Beverly Hills, Calif.

Eavesdroppings

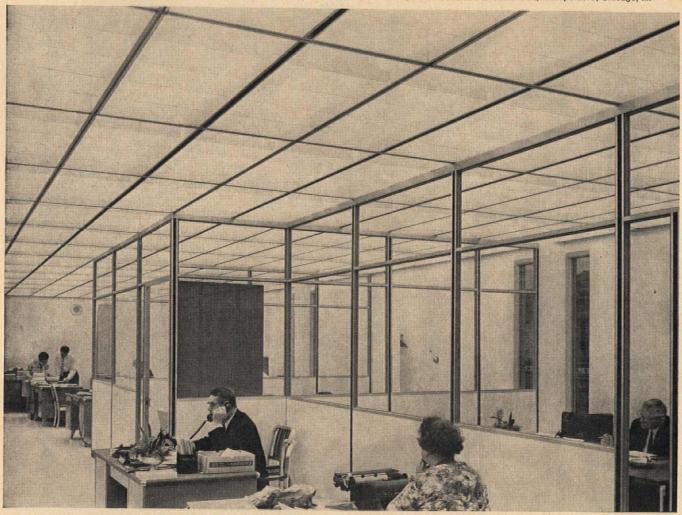
"For five years, architects are taught in most schools to regard themselves as mini-Mieses, given unlikely problems and the minimum of contact with the site. They are then thrown out on a market where they can earn good money in planfactories with little creative work, or they pour out their souls and build five houses in a

Continued on page 62

AMERICAN FLETCHER NATIONAL BANK, INDIANAPOLIS.

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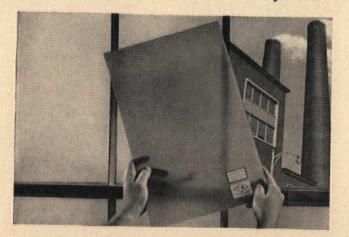
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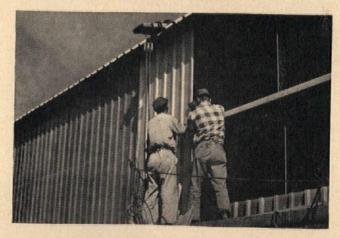
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DUREZ PLASTICS DIVISION

Continued from page 58

decade. The result, very often, is an addled person producing addled architecture." Ian Nairn, "Stop the Architects Now," The Observer, February 13, 1966.

"On more than one occasion, a speaker has resorted to the earliest statement which we have on record. This statement goes back to classical times when Athens was in full flower, and the pledge of its citizens, taken a thousand years ago, has even a greater meaning for us today. 'We shall never bring disgrace to this our city; we shall fight for the ideals and sacred things of the city; we shall revere and obey its laws; we shall strive unceasingly to quicken the public sense of civic duty that in all these ways we may pass on this city, greater, better, more beautiful than it came to us." Kenneth B. Smith at the Stratford Seminar on Civic Design.

"Architects, engineers, and scientists are all what I call slave professions. They don't go to work unless they have a patron. But architects are the most slavish of all, and they work under a system that hasn't changed since the time of the Pharaohs. When you're an architect, the patron tells you where he's going to build, and just what he wants to do. And he says, 'My brother's in the hardware business, and my wife wants this, and here's the building code, and the labor laws, and here are the zoning regulations, and here's Sweet's catalogue. I don't want anything special outside of it.' So the architect is really just a tasteful purchasing agent. He discovers he's inherited a skeleton frame and guts, and all he can do is put in exterior decorating." Buckminster Fuller, quoted in The New Yorker.

Haughwout Wins Out

NEW YORK, N.Y. Charles Mac-Kay, in his Life and Liberty in America or Sketches of a Tour in the United States and Canada in 1857-58, was overwhelmed with Broadway, its bustle and beauty. He especially admired a building that gave "its most imposing character to this busy and beautiful street." "The iron palace," as he called it, commonly known as the E.V.

Haughwout Building (pp. 133–135, February 1958 P/A) still stands today—one of the finest examples of cast iron architecture and possibly the first building in America to use the



safety elevator. The Venetian-Renaissance styled and J. P. Gaynor-designed Haughwout Building may have added another distinction to its list by being the first to cross New York's Robert Moses, chairman of the Triborough Bridge and Tunnel Authority. The building has been named a landmark by the city, which designation has been upheld by the Board of Estimate. Moses had appealed to the Board to "take no action" on this, as "these premises are directly in the right of way for the Lower Manhattan Expressway." looks as though the highly controversial Expressway, Robert Moses' baby-in the making since the mid-40's-may have a longer wait yet.

Onward and Upward



Photo: George Bettridge, Saans Photography

SALT LAKE CITY, UTAH. Man's progress—if it can be called that—from his beginnings close to the earth, through a humanistic period, to his present glossy, untouched-by-humanhands existence, can be visually

traced in this photograph from the capital of the Mormons.

The log cabin is one of Utah's first buildings, and is now enshrined on the Temple Square grounds of the Mormon Tabernacle beneath a Westernstyle Parthenon. Behind, looming like the embodiment of the mid-20th Century, is the new office building of Kennecott Copper Corporation by Ashton, Brazier & Montmorency of Salt Lake City.

LET THERE BE WATER AND POWER





LOS ANGELES, CALIF. Right across the street from the Los Angeles Music Center (see pp. 46-48, JANUARY 1965 P/A) stands the recently completed 17-story headquarters of the Los Angeles Department of Water and Power. With today's push to integration, buildings as disparate in purpose as these can be next-door neighbors and scarcely raise an eyebrow. But, architecturally, the Water Works upstages the Music Center. Not only is it a cleaner, less frivolous building, but it has a better site with room for a pleasing reflecting pool. This pool, with its eight fountains, surrounds the building, carries one-third of the building's airconditioning load, and serves as a roof for a three-level parking garage for 2300 cars.

Were it not for the contrast with the Music Center, the Water and Power Building

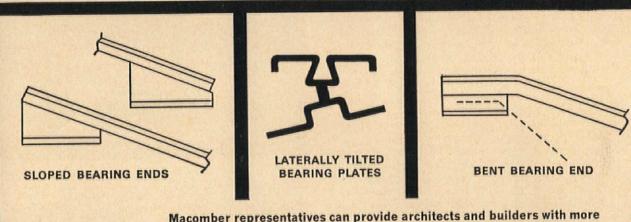


would probably look even more mechanical than it is. What personality it has stems from wrap-around horizontal exterior concrete canopies, cantilevered 15' beyond the exterior steel columns. These canopies, of course, serve as sunscreens, lightening the airconditioning load. The building's 880,000 sq ft gross floor area is heated by bootstrap heating: heat from the lighting fixtures is captured and circulated.

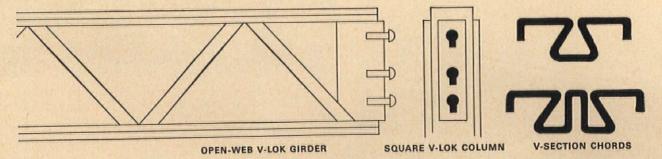
Constructed at a cost of \$32 million, the building provides office space for 3200 employees and is said to have sufficient space to house 4300, the department's estimated headquarters work force by 1990.

Architects were Albert C. Martin & Associates.

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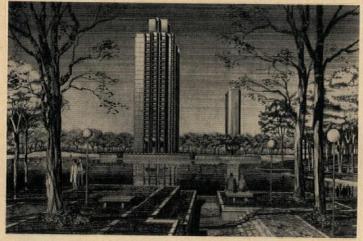
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High-Rise Home



DETROIT, MICH. Too often, the only consideration given the elderly in housing built for them is in the name. These projects usually have names that say something about Senior Citizens or Golden Years. and site plans that include too many steps.

Soon to open near the heart of downtown Detroit is a 22story apartment house for the elderly that provides more than a token offering for the comfort of its aging tenants. What makes the building distinctive. in an era too addicted to institutional-looking housing for the aged, is not only its site, which is adjacent to a park and a small lake, and its handsome façade, but also its carefully thought-out interior. The floors of public halls and bathrooms are of nonskid ceramic tile and

all have handrails and grabbars. All doors are wheelchairwidth. And elevators, which service all floors including the basement-level parking facilities, have doors timed for delayed starts and are wide enough to accommodate wheelchairs and walkers. Each floor has seating at elevator lobbies and two laundry facilities.

The building will contain 264 apartments, either studio or one bedroom, each with floor-to-ceiling glass and bal-conies overlooking Detroit and the park. Architects John P. Morgan & Associates plan a snack bar in the lobby and community rooms in the basement of the building, an area completely surrounded by a 15'-wide sunken garden court. Entrance to the lobby is via a bridge across this court.

The Building Forms a Gateway



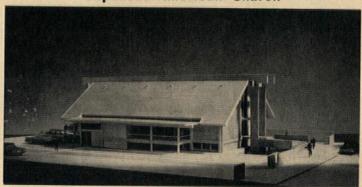
ROME, ITALY In 1936, Benito Mussolini set aside a generously proportioned site five miles south of Rome for a world's fair. With one thing and another, the fair never materialized, and the land, with its covering of towering Roman pine trees, lay ripe for development. About 10 years ago, the development started in ear-

nest. Since then, more than 150 corporations and several government ministries have set up offices in what has become Esposizione Universale Roma (EUR), a planned city of skyscrapers, long, low government buildings, hotels, apartments, and expensive villas. Latest planned additions to EUR are a pair of identical office struc-

tures, which will flank the broad highway leading into the complex, forming a gateway to it. Plans for the first of these, a building for Esso Standard Italiana, were recently re-leased. Designed by Roman architects Professor Vittorio Ballio Morpurgo and Professor Luigi Moretti, with La-thrup Douglas of New York as consulting architect, the building is set on a terraced marble podium that houses a cafeteria, a computer center. and a three-level parking garage. In form, the structure will consist of two massive rec-

tangular blocks, both about 400' long: a two-story block set upon a three-story one. These are separated visually by a recessed intermediate floor containing management offices. The upper story is defined by a cap of white marble facing, which reiterates the marble of the base. Every 21/2', vertical sun baffles cut the bronze aluminum curtain wall façade. Completion of the Esso building is scheduled for July 1966. The second building, to be occupied by Societa Generale Immobiliare, will be finished a few months later.

Japanese-American Church





LOS ANGELES, CALIF. Using the traditional form of the Japanese temple, but substituting two precast, post-tensioned concrete beams for wooden roof beams, the firm of Kajima International, Inc., has fashioned the Seicho-No-Ie Church

for a Japanese religious organization in Gardena, California. Almost completed, at a cost of \$200,000, the church will seat 300 in its main assembly hall and have classrooms in its half basement. Engineers are Moffatt & Nichol, of Long Beach.

The Day of the Hexagon

PONCE, P.R. Puerto Rico has many attractions, but until last December, major art museums were not among them. Now there is one, in Ponce, the island's second largest city, 75 miles from San Juan. Ponce is

the hometown of financier and philanthropist Luis E. Ferré, who, feeling the lack of adequate museum facilities, in 1959 asked Edward Durell Stone to design such a structure. The result is a multipur-



On Readers' Service Card, circle No. 335



pose, \$2 million, two-story, troweled marble structure that houses \$3 million worth of art.

The major portion of El Museo de Arte de Ponce's art collection will be displayed in seven, second-floor galleries that are hexagonal in shape, with narrow grillework at the corners. The six-sided gallery will let a visitor stand in one spot and view work hung on all walls with equal ease. The walls are covered with a heavy cloth, a very loose jacquard weave, which will facilitate hanging and wall care. Hexagons are everywhere; Stone repeats his motif in the ceiling's recessed triangles and on the



floor's terrazzo tiles.

El Museo stands in Ponce, squarely, solidly, and a bit magnificently.

Competitions

Royalmetal Corporation has launched its 1966 student competition for the design of a general office for eight people with an adjoining reception area. Entries must be in by April 30, and should be mailed to Royalmetal Corporation, Dept. ODC, 1 Park Ave., New York 16, N. Y. . . . The dead-line for the NIAE- and Pittsburgh Plate Glass-sponsored competition is April 22. This year's theme is "The Image or a State—A Hospitality Center on a Turnpike." Entry forms and further information are available from the National Institute for Architectural Education, 115 E. 40th St., New York 16, N. Y.

The Architectural League of New York has announced that under the J. Clawson Mills Fellowship in Architecture—a grant of \$7500—it will now be possible for instructors who have completed all but one final year of studies to finish their requirements and receive an advanced degree in architec-

ture. The grant would finance the year of schooling, as well as a three-months period of actual work with an established architectural firm. Applications should be submitted to the Architectural League of New York, 115 East 40th St., New York 16, N.Y., and should not arrive later than April 1.

Obituaries

James Ruderman, structural engineer whose work totaled more than 40 million sq. ft. of space in New York City, died there on January 27 at the age of 67. So many of his steel-framed buildings lined Park Avenue that it was often called "Ru(e) der man Bouleyard."

Awards

Architect Howard Ashley of Kuala Lumpur, Malaya, has been selected to receive the Pan Pacific Architectural Citation of the Hawaii Chapter, AIA . . . The city of Charleston, S. C., has received the

AIA's Citation for Excellence in Community Architecture . . . The Hawaii Chaper, AIA, also gave honor awards for outstanding architecture to John P. Tatom and the firm of Lemmon, Freeth, Haines & Jones.

Roney Plaza Coming Down

MIAMI BEACH, FLA. The grand dame of Miami Beach hotels is coming down. Developer Harry Mufson has announced plans to begin demolition of the Roney this summer to make

way for a \$25 million resort hotel to open in November of 1967. The new 600-room hotel will, he says, be "the most sophisticated resort complex in the world." Such a statement should rock the palms and fuchsias of the 40-year-old Roney. After all, with 280 rooms (one of which, the Presidential Suite, boasts a terrace large enough to accommodate 150 people for cocktails), 1500' of ocean-frontage and six acres of gardens and landscaping (which, thoughtfully enough, will be preserved), the Roney was not exactly dull.

Mountain Greenery College

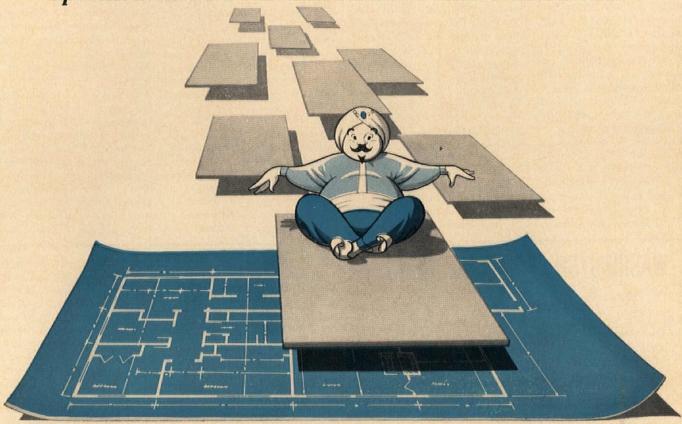




BENT, ORE. Hard by the Cascade Mountains on the Deschutes River in central Oregon, the town of Bend (population: 11,409) stands firmly on its bed of solid volcanic rock. Besides the sawmills and furniture factories, the town has, since 1949, been the home of Central Oregon College. The college, lacking adequate space and facilities, has not fared

well. (At one time, full-time student enrollment was down to one.) Today, Central Oregon College enrollment is up to 400. Instead of using the Bend High School rooms at night, COC, with the help of state and Federal funds, now has 145 acres on the west slope of Awbrey Butte with four new classroom buildings, an administration building, a student

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6-026

CUSH-N-BASE

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center and a library now under construction. Wilmsen, Endicott & Unthank of Portland are architects for the junior college's new campus. By 1975, dormitories, a cultural center, physical education, applied science, forestry, agricultural and vocational arts buildings will be added, for about \$2 million.

Because of limited funds (cost on the first seven buildings averaged \$16.93 per sq ft) and lack of skilled labor, the architects kept a similar pattern of construction for all the buildings. Foundations, slabs, and columns are of reinforced concrete, with exposed surfaces sandblasted in-

side and out. Exterior nonbearing walls, and the deep, overhanging fascia, are of frame construction faced with wood shingles. The shingles have not been stained and have already weathered to a buck-brush gray. Roofs are flat and framed with wood joists. The design mirrors exactly a transitional stage in the changing coastal architectural style — from wood shingle to concrete.

Wilmsen, Endicott & Unthank have kept their architecture low-lying and low-keyed. The volcanic rock, the pines and buck brush, the overwhelming view of the Cascade Skyline—these are undisturbed.

Calendar

March 21-24 are the dates for the Industrial, Institutional & Commercial Building Exposition to be held at the Public Audiorium in Cleveland, Ohio. Information and registration forms are available from Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, N.Y. . . . From March 29-30, the Jung Hotel in New Orleans will house the second Building Research Advisory Board's symposium on The Performance Concept in Building. For more information, write Information Service, Building Research Advisory Board, Na-

tional Academy of Sciences-National Research Council, 2101 Constitution Ave., NW, Washington, D. C. 20418 . . . The National Association of Architectural Metal Manufacturers will convene at the Mark Hopkins Hotel in San Francisco April 24 to 29 . . . The Boston Educational Center will celebrate the opening of its new building with a program of films, lectures, a building products exhibit, and a conference on the "Future of Architecture" from May 8-14 . . . The Consulting Engineers Council will have its annual meeting in Tulsa, Okla., from May 4-6.

WASHINGTON/FINANCIAL NEWS

BY E. E. HALMOS

There's a real possibility that the President's much-cherished "beautification" program for highways may result in a cover-up with figurative chintz and a little ivy—and very little else.

With the exception of a few forlorn voices, the emphasis seems to be on covering everything in sight with trees, flowers, and shrubbery. There's no stress at all on the possibilities of beauty inherent in design of roads and the structures that are part of them. The idea seems to be that the road itself must be somehow hidden from view behind a screen of greenery, rather than being made an integral part of its surroundings.

Of course, nobody denies the value of shrubbery, or extols the beauties of most advertising signboards, or argues that obnoxious things should not be removed or hidden. Only trouble is the almost total concentration on this aspect of the problem.

An example is the recent White House meeting of the "First Lady's Committee for a More Beautiful Capital." (Similar sessions are being promoted elsewhere, to spark the beautification program.) As reported by the press, the meeting was concerned with sprucing up some of the admittedly horrendous highway approaches to the city. A number of socially (and financially) prominent guests pledged money for purchase of flowers and trees.

The U. S. Bureau of Public Roads, for one, is conscious of

the possibilities of beauty from design, and recently (see February 1966 P/A) appointed an unsalaried board of consultants as an advisory group on selection of rights of way for new roads, which will be increasingly concentrated in urban areas

But it is making little headway against the trees-flowersshrubs-and-grass concept that seems to have taken over the program now.

Public Library Expansion Likely

Little noted in the crush of more spectacular items occupying Congressional attention these days is the probably successful move (embodied in S.2802 and HR 12133) that would continue and expand the 10-year-old Library Services Act, which expires officially on June 30.

The program under this act has been a relatively quiet one, but it has involved considerable construction work, as well as made available funds for purchase of books, hiring of professional personnel, and expansion of library services.

In the extension bills now before both Houses, funds would be set aside for construction of library facilities: \$75 million for (fiscal year) 1967, \$100 million for 1968, and \$125 million in both 1969 and 1970.

Allocation of these funds is based on a Government report that indicates existing libraries need an additional 40,500,-000 sq ft of space—at an estimated cost of \$941 million—to meet public calls on their services this year.

National Budget: Fact and Fiction

As usual, the annual budget presented to Congress in late January is up for consideration and debate. And, again as usual, it doesn't have too much relation to the actual bills that will be presented to the taxpayer.

That is not, in many ways, the President's fault, but the result of Uncle Sam's very peculiar bookkeeping methods, which take no account of what he is obligated to spend, but only of actual present expenditures.

Thus, the President sought appropriations of \$112,800,-000,000. But the real measure of what the Government will or can spend is to be found in his requests for "New Obligational Authority" (NOA)-a sort of blank check from Congress authorizing future spending. If you add up these requests, they amount to more than \$145 billion. And, added to more than \$106 billion of "NOA" not used in previous years, it could yield an authorized spending total of nearly \$251 billion.

The cuts and stretch-outs of Federal programs will have some long-range effect on funds available for construction. Unless the situation in Southeast Asia changes radically, however, the effect on building won't be felt this year.

Funds For Government Building

For construction (and planning) of facilities, the budgeted total amounts to nearly \$10

billion (this includes new Government buildings for many agencies, assistance grants for various public works projects, and highways). If you add to this funds for continuing programs such as housing and urban renewal now taken over by the new Housing and Urban Development Department and others, the total comes out to something close to \$17 billion—very little below the figure a year ago.

Some few cuts and slow-downs are apparent in some of the programs, particularly in the matter of the already announced cut in military housing (down \$100 million to \$544 million); and in aid to "impacted" schools (where children of Federal employees put an overload on local districts), which will be cut from \$397 million in 1966 to \$206 million for the next fiscal year.

But the General Services Administration program for 33 new Federal buildings, and the design of 10 more—to cost \$262 million in the next year —was not cut. (Neither was the Army Corps of Engineers' request for \$967 million for flood control and other work.)

More Taxes

Most distasteful part of the budget message—to election-minded Congressmen—was the call for new or reimposed taxes to produce an additional \$4,800,000 in revenues to support the President's hope for a smaller deficit.

Research Into Residential Walls

Through its wholly owned Research Foundation, the National Association of Home Builders has embarked on an

ambitious research project that will serve as a basis for performance standards for loadbearing and nonloadbearing walls (interior) for residential use.

First step will be a search of any existing literature related to interior walls, including findings of manufacturers and universities, as well as any other research that may not have been published generally.

Hope is to produce a mathematically expressed performance standard; and develop, or adapt, any needed new standard test methods to measure performance of walls.

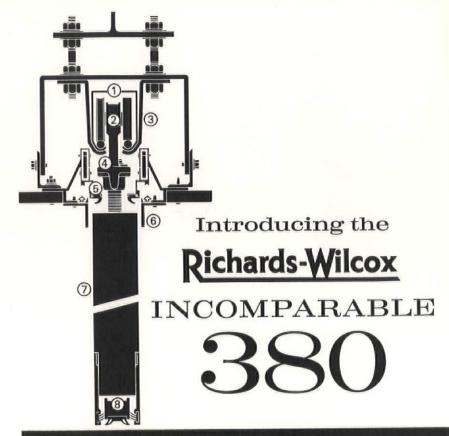
Financial

Biggest exercise for anyone concerned with the construction industry this month continues to be study of the enormous Federal budget, and, particularly, of Congress' reaction to it. With more than \$9,800,000,000 in direct appropriations for construction, plus perhaps \$7 billion in loans and other programs that foster construction, a lot of the industry's business rides on what happens next. As March began, Congressional hearings had given no indication that the lawmakers would make any drastic change in plans in this

Despite a last-minute spurt in the number of "starts," the housing field, as expected, lagged behind totals for the previous year. Census Bureau estimates a total of 1,500,000 new, privately owned housing units were started in 1965—down 3 per cent from 1964. Possibly because of mild weather in some areas of the U. S., December starts jumped to 101,000, compared to 96,700 in 1964.

Nobody should ignore the contribution of state and local governments to the construction economy. According to the Commerce Department, in the 12 months ended in September 1965, these groups spent \$17,400,000 on construction. And there are numerous indications that the spending rate has increased.

So far, there's little indication that recent increases in interest rates on loans have tightened money available for construction. One indicator seemed to suggest quite the contrary: FHA said its application volume was a record 1,100,000 in 1965.



A NEW DIME<u>nsion in Operable Classroom Walls</u>

The ultimate in simple operation and sound control

- Sturdy R-W special design No. 888 track made of 9-gauge steel—the strongest track being used by any maker of movable walls.
- R-W special design hanger for ease of operation. Four sealed ball bearings, plus thrust bearing, virtually eliminates starting or rolling friction.
- Cold-rolled bar runways minimize friction. Self-cleaning track, no maintenance.
- Friction-free thrust bearing makes folding action of panels easy.
- Continuous retractable 4-point top sound seal locks into place.
- Durable aluminum top guides eliminate maintenance.
- Sound retardant wall ratings as specified. Choice of panel surfaces.
- Fully retractable floor seals. No floor track, dragging seals, motors, electrical fixtures, pneumatic or hydraulic operation.

WRITE FOR BULLETIN F-266

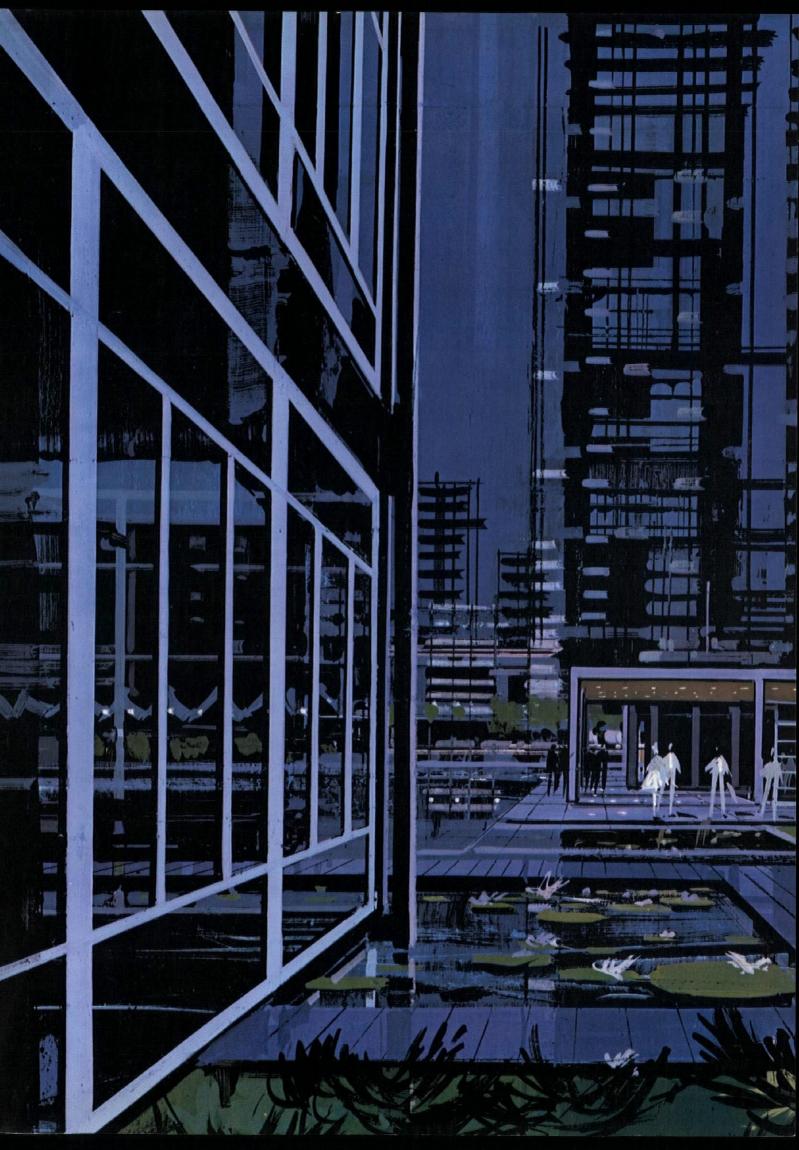


RICHARDS-WILCOX DIVISION
120 THIRD ST. • AURORA, ILLINOIS 60507

On Readers' Service Card, circle No. 456

All mechanical...and yet, it opens and closes so easily even a 90 lb. teacher can do it ... effortlessly.







This steel window won't rust.

It's finished in polyvinyl chloride.

Polyvinyl chloride is impervious to moisture. We put it on our window four times as thick as paint, using a Ceco-researched method, an exclusive process. This is a resilient finish. It doesn't crack or chip. It gives. We call it Cecoclad. There is no other finish like it.

The Cecoclad window is in the price range of a galvanized-and-painted steel window and a hard-coat-anodized aluminum window. The Cecoclad window needs practically no maintenance. Your client can keep it looking brand new by washing it down with water when the glass is washed. That's all.

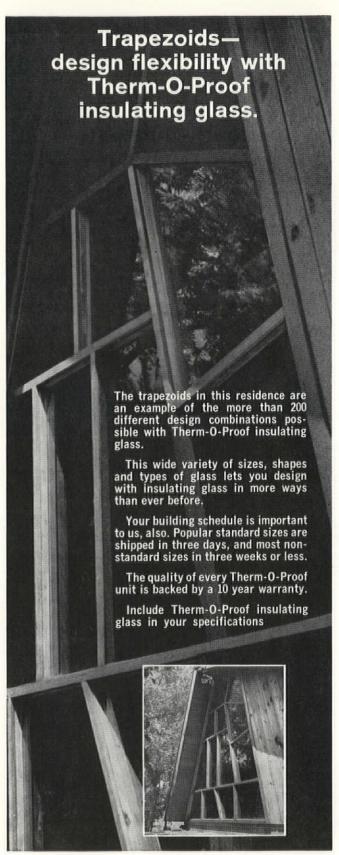
We'll be glad to sell you whatever window you want. We make them all. But if you'll take our unbiased advice, you'll specify the Cecoclad window. It's incomparable.

Send for colors, test data, specifications, samples and comprehensive list of projects built with Cecoclad windows throughout the country. The Ceco Corporation, general offices: 5601 West 26th Street, Chicago, Illinois 60650. Sales offices and plants in principal cities from coast to coast.



CECOCLAD STEEL WINDOWS

encased in colored polyvinyl chloride four times thicker than paint.



Robert G. DeRue, M.D., Residence Sandusky, Ohio.

Therm O Proof

Made more ways—
to fit more ideas.
See Sweets 7a

Thermoproof Glass Company 4815 Cabot Avenue Detroit, Michigan 48210 Subsidiary of: Shatterproof Glass Corp. 44 years of glass experience

On Readers' Service Card, circle No. 406



Peal of three Verdin Bronze Bells with automatic ringers

ST. JUDE CHURCH, Grand Rapids, Mich.

- AMERICA'S MOST BEAUTIFUL BELLS
- AVAILABLE IN SINGLE BELLS, PEALS, CHIMES AND CARILLONS
- FULLY AUTOMATIC RINGING
- VERDIN BELLS AND BELL RINGING NOW IN OVER 6500 CHURCHES
- . COMPLETE ARCHITECTURAL CO-OPERATION

Write for brochure illustrating unusual bell arrangements.

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VERDIN

"THE BELL RINGERS OF AMERICA"
CARILLONS — CHIMES — PEALS

On Readers' Service Card, circle No. 408

&REINHOLD

DESIGN AND FORM: THE BASIC COURSE AT THE BAUHAUS by Johannes Itten. 7% x 10%, 200 pages, 160 illustrations, \$12



A complete description of the content and purpose of the famous "Introductory Course" at the Bauhaus, by the man who established it. Used as a trial semester to judge incoming students of varying educational backgrounds, the purpose of this course was three-fold: to determine creative talent; to facilitate choice of career; to teach elementary design.

REINHOLD BOOK DIVISION 430 Park Avenue, New York, N.Y. 10022

Brains for Buildings

Computers can now take over complete control of mechanical and electrical systems for large buildings. Centralized equipment for monitoring and adjusting all services will be installed for the first time in Main Place, a complex of buildings under construction in Dallas, Texas.

The Dallas system is one of four recently developed by Honeywell to handle the control of any project from a high-rise office building to a 40-building network.

All four systems are built around a compact console (4' x 4' x 2' deep). From this console, an operator can "lock in" on as many as 250 systems with 10 or more checkpoints each. When the desired system is located by means of a pushbutton code, its schematic is projected on a screen. The selected system can then be turned off or on, temperature set point adjusted, or damper position changed. Only one set of switches for temperature set point and damper positioning is required on the central panel. Two-way intercom, digital clock, and an alarm annunciator are built into the console.



System 10, least automated of the four, controls up to 100 systems. It can tell actual temperature set points and damper positions, and operator can make adjustments. A solid-state scanner alerts operator to off-normal conditions with an audible alarm and then prints out information. A multichannel recorder can automatically record temperatures for making system analyses or to observe trends.

System 11 is similar to the 10 but is equipped with a memory; automatic off-on programming is optional.

System 20 has what Honeywell calls "cerebral centralization," and is all solid state. It has off-on programming, a digital computer for highspeed data acquisition, and digital computer for summing



up variables, such as energy totals, on the run. It is capable of operating up to 250 remote mechanical systems with 10 or more checkpoints each and can scan up to 10,000 points per minute. Critical points are examined more frequently. Two electric printers offer uninterrupted logging of information on points scanned at set intervals, plus alarm readings noting time, type, location, and value.



System 20 is engineered to grow into System 30 by adding a drum memory and direct on-line control with a computer. Fully automated controls analyze performance, compare it with ideal conditions, and make necessary adjustments to keep system running at peak efficiency. It keeps one eye on mechanical systems and the other on variables such as outside temperatures, interior heating and cooling loads, fuel and power costs. It automatically makes decisions on economic factors, such as whether it would be cheaper to run the air conditioning all night or to shut down the chillers and start up early in the morning.

All systems are equipped with a manual control, so that an operator has the final judgment if necessary. Honeywell, Inc., Minneapolis, Minn. 55408.

On Readers' Service Card, Circle 100

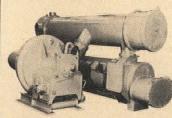
Air/Temperature

Big Boiler

Commercial gas-fired copper hydronic boiler has capacity of 670,000 Btuh. Dual temperature controls and dual gas valves prevent waste heat by dropping gas input to 40% of capacity when water temperature approaches set point. Largest in manufacturer's commercial hydronic line, the boiler weighs 330 lb when full of water, A. O. Smith Corp., Kankakee, Ill.

On Readers' Service Card, Circle 101

Big Coolers



Two series of centrifugal water chillers extend the range of comfort cooling equipment from 450 tons to 5000 tons. Some 27 models of these single-compressor, open machines, which use inexpensive refrigerants, can be powered with a wide variety of prime movers. Rigid shafts allow fast speeds without vibrations of conventional flexible shafts. Carrier Corp., Syracuse 1, N.Y.

On Readers' Service Card, Circle 102

Air Curtains for Industry

Cold air is stopped at open doors in plants and warehouses by air heated by steam or hot water coil units or direct gasfired burners. In summer, "Miniveil" can be used to reduce inflow of hot, humid air from outside. Berner Industries, Inc., New Castle, Pa.

On Readers' Service Card, Circle 103

Construction

White Masonry Cement

White cement, designed for mixing masonry mortar, will not stain limestone blocks or panels. Colored mortar can be made by adding pigments to the white masonry mortar. White masonry cement contains gypsum to regulate setting time; an air-entraining agent to provide plasticity, water-retention, and durability in the mortar mix; and a water-repellent additive. Universal Atlas Cement, Div. of United States Steel Corp., 100 Park Ave., New York, N.Y. 10017.

On Readers' Service Card, Circle 104

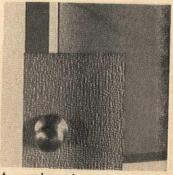
Doors/Windows

Door Core

Flush interior door with solid core of low-density particle-board is said to have excellent fire and sound-dampening characteristics. May be veneered with any available hardwood species. Weyerhaeuser Co., Tacoma, Wash. 98401.

On Readers' Service Card, Circle 105

Patterned Steel Door



An embossed pattern stiffens 20-gage steel plates sufficiently to form a sandwich-type flush door. The plates are bonded to a phenolic resin impregnated Kraft honeycomb core. Door is available in 13/8" or 13/4" widths and can carry a three-hour "A" label fire rating from the Underwriters' Laboratories, according to the manufacturer. Steelcraft Mfg. Co., 9017 Blue Ash Rd., Cincinnati, Ohio. 45242.

On Readers' Service Card, Circle 106

Fermez la Porte

Slim door closer has simple lines suitable for offices, motels, or any room where a neat appearance is important. Available in brushed brass or brushed aluminum; other fin-

Want the most from electric heat? Consider Styrofoam.

That's because an installation system using Styrofoam® brand insulation board doesn't make demands on floor space the way other insulations do. The combination of properties offered by Styrofoam makes it unusually effective. So much so that you get more permanent insulation value per square inch, and get a maximum of usable floor space, too.

How else is Styrofoam good for electric

heat? Once in, Styrofoam is in for good because it doesn't rot, mold, or deteriorate. It needs no vapor barrier. It's flame retardant. And is lightweight and easy to install.

Where does Styrofoam insulation go? Just about anywhere. Over walls of unit masonry or poured concrete, as form liners for conventional concrete, in foundations and slabs. And it makes an excellent base for gypsum wallboard,

wood paneling or plaster. Have we almost made a sale? Then to clinch it, write us or consult Sweet's Architectural File 10a/Do. The Dow Chemical Company, Plastics Sales Department, Midland, Michigan 48640.

Styrofoam is Dow's registered trademark for expanded polystyrene produced by an exclusive manufacturing process. Accept no substitutes... look for this trademark on all Styrofoam brand insulation board.



(It's the least you can do.)



ishes are made to order. Shelby Corp., East Smiley Ave., Shelby, Ohio. 44875.

On Readers' Service Card, Circle 107

Electrical Equipment

On the Up and Up



In-the-ground fixtures for uplighting of trees, monuments and buildings are concealed except for grate openings. Said to be tamperproof and easily focused, fixtures are available for incandescent, quartz iodine, or mercury lamps. Stonco Electric Products Co., 333 Monroe Ave., Kenilworth, N.J. 07033. On Readers' Service Card, Circle 108

Don't Bug Me!



Plastic lens "hides" light of ordinary incandescent bulbs from insects. White light from post and portable fixtures using lens, apparently cannot be seen by insects, thus eliminating their swarming around outdoor fixtures. Meredith Separator Co., 707 Helmers Ave., Cleveland, Mo. 64734.

On Readers' Service Card, Circle 109

Finishes/Protectors

A Glittering Façade

"Diamond Dust" or "Tinsel" irregularly shaped glass flakes are used for light-reflecting effects on cement or asphalt walks and patios; building façades; and walls, ceilings, and other interior applications. Flakes are available in sizes ranging from .0037" to .139". Material can be sprayed or dusted on the surface of cement or plaster while it is still wet; secured to walls, ceilings, or other surfaces with standard, commercially available adhesives. Flake colors are red, green, blue, silver, yellow, copper, and clear. All colors are bleedproof and fade-resistant. Permafrost Corp., P.O. Box 569, West Caldwell, N.J. 07007.

On Readers' Service Card, Circle 110

Silicone Topping



Silicone rubber material vulcanizes to a flexible concretelike substance. It is water-resistant, and, with a primer, may be used as a protective coating over concrete, steel, or wood. "Silicone Traffic Topping" is recommended to be trowelled onto horizontal surfaces, and may also be used as a grout for tile and stone, or to repair cracks. It is available in fade-resistant colors. General Electric, Silicone Products Dept., Waterford, N. Y.

On Readers' Service Card, Circle 111

Furnishings

The Perfect Couples

Two recent marriages in the vinyl wall-covering field are Durawall's Suwide and Vyndura with "Tedlar," DuPont's nonstainable coating. In addition to the many textures and colors offered, the manufacturer claims almost every de-

sirable property one could demand: it is stainproof, insuring easy and low-cost maintenance, and has great elasticity, will shrink or stretch with the substrate in extreme temperature variations, as well as being impactand tear-resistant. Durawall, Inc., 509 Madison Ave., New York, N.Y.

On Readers' Service Card, Circle 112

Mexicana



Hand-made wall and floor tiles from Mexico are offered in a variety of shapes, patterns, and colors. Both glazed and unglazed tiles are said to be highly wearable and frostproof, thus suitable for commercial and outdoor installations. Delivery from 50-80-days (limited selection available for immediate delivery), custom specifications. Elon Imports, 1428 Lexington Ave., New York, N.Y.

On Readers' Service Card, Circle 113

That Scandinavian Look



Among ICF's interesting and comfortable Scandinavian furniture are: a strong, simple, all-wood chair designed by Olavi Hanninen; it is quite simple and has been used in seminaries because of its obvious symbolism. Two neat and distinctive upholstered executive chairs, one by Yrjo Kukkapuro and the other by Olli Mannermaa, are available on aluminature.

num swivel bases on legs. Secretarial chairs with whimsical and comfortable arm rests designed by Olli Mannermaa have completely adjustable seat, back, and height, plus aluminum base. Also offered is a cast bronze pedestal base with a hobnail pattern that gets polished, not scraped, as shoes scuff it; designed by Yrjo Kukkapuro, it can be used for restaurant tables, bar stools, or for other standards. ICF, 145 E. 57th St., New York, N.Y. On Readers' Service Card, Circle 114

Square Furniture



Designer Folke Ohlsson aims to combine the architectural cube with the "luxurious soft look" in a furniture group which consists of a lounge chair, ottoman, three-seat sofa, and three tables. The cube group items have walnut frames, optional cane or wood panel inserts, and polydacron cushions; tables feature hand etched brass tops to combine craftsmanship with resistance to heat and stains. Dux, Inc., Burlingame, Calif.

On Readers' Service Card, Circle 115

Temporary Furniture for Temporary Needs



Ideal for toys, books, soft goods, and all sorts of paraphernalia, is Design Workshop's functional, low-cost (retail: \$10), disposable storage system. The system is composed of six 12" rigid craftboard modules (white) with three removable shelves and supporting struts of colorful plastic; it is easily assembled

without tools. The Design Workshop, P.O. Box 7974, Kercheval Station, Detroit, Mich.

On Readers' Service Card, Circle 116

Portable Exhibits



Aluminum telescoping legs and 2' x 4' foam-plastic panels permit fast showing of photos, posters, etc. (which are stapled on beforehand). The units, which are obtainable in any number of panels and legs, can be formed into a convention booth or island, and into wall-covering displays. Each unit weighs less than 4 lb, and all units fit into a carrying case 2' x 4' that is easily portable. Porta-Panel, 12 E. Grand, Chicago, Ill.

On Readers' Service Card, Circle 117

On Their Metal



Office Spann II is an "architectural" line of desks, cabinets, and chairs of steel construction in a variety of colors and with a choice of seven wood or leather-grain plastic laminate tops. The desks offer an abundance of leg room, and have brushed crome legs and drawer pulls (nonsnag rounded corners). Chairs have deep foam seats and backs. Simmons Co., Merchandise Mart, Chicago, Ill. On Readers' Service Card, Circle 118

Vinyl Masonry

"Coarse Texor," a vinyl wallcovering simulating sand plaster or fine stucco, is available in a good range of 18 colors, including three shades of white.

The material is said to be color-fast, stain- and fade-resistant, and is easily cleaned. Interchemical Corp., Coated Fabrics Div., Toledo, Ohio.

On Readers' Service Card, Circle 119

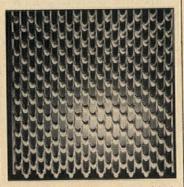
Folded Rhythms



Architect Alden Dow has designed a group of printed drapery fabrics based on rhythmic repetition of geometric elements. The designs are silk screened on linens, Sarans, and cottons in open and closed weaves; colors are formulated to designers' needs. Samples on request. Edwin Raphael Co., Inc., Infinity Lane, Holland, Mich.

On Readers' Service Card, Circle 120

Veil of Tears



Among a series of molded-and-pierced, lightweight panels is one that is a new interpretation, in new materials, of ancient imbrication—"Teardrop" (illustrated). Panels are usable both outdoors and indoors and are finished on edges and both sides. Approximately 2' square, they vary in thickness from 3'8" to 13'8" and weigh from 2-2/3 lbs to 8½ lbs. Galway, Inc., Contract Div., 320 W. Ohio St., Chicago, Ill.

On Readers' Service Card, Circle 121

Insulation

One-Ply Vapor Barrier

A single-sheet vapor barrier, used instead of a conventional

two-ply, asphalt-mopped system, is said to cut the overall application cost 30 per cent. "Vaporstop 710" is an extensible Kraft, polyethylenelaminated sandwich with edges reinforced with glass fiber. Its moisture vapor transmission rate is 0.28 perms. Vaporstop 710 is recommended as a vapor barrier on any roof deck except Class I metal deck construction. Manufacturer claims that Vaporstop has inherent ability to stretch, and tensile strength that prevents ruptures and preserves the barrier when expansion occurs. The material resists moisture entrapment and absorption, and also resists the heat of asphalt during application. St. Regis Paper Co., Sisalkraft Div., Attleboro,

On Readers' Service Card, Circle 122

Cryogenic Insulation

"Series 200" urethane foam insulation can be used for special cryogenic applications in environments as frigid as -450 F. Material is a two-component, polyester fluorocarbon-blown rigid foam that, manufacturer says, has a high strength-toweight ratio, maximum dimensional stability, and minimum shrinkage and collapse at cryogenic temperatures. K-factor ranges from 0.13 for 1.5 density foam to 0.34 for 16 lb density foam when measured at 74 F. K-factor decreases proportionately with temperature at cryogenic levels. Manufacturer claims that less than half the thickness usually required for conventional insulation may be specified for 200 Series cryogenic foam. Upjohn Co., 555 Alaska Ave., Torrance, Calif. On Readers' Service Card, Circle 123

Sanitation/Plumbing

A Three-Wall Stall

Fiberglas shower stall consists of floor, three walls, and seat molded into 60"-wide by 75"-high unit. Seam-free construction prevents water leakage. Available in six colors. Universal-Rundle Corp., New Castle, Pa

On Readers' Service Card, Circle 124

Self-Seal Sink . . .

. . . fits directly over countertop. Eliminating metal trim means faster, more economical installation. Available in single

or double compartments in several colors of enameled iron. Kohler Co., Kohler, Wis. On Readers' Service Card, Circle 125

Red Hot/Cold Blue

Color disc in lavatory and shower faucets shows red for hot water, blue for cold and part red, part blue for mixed temperatures. A single pushpull acrylic dial controls off and on flow. Fixtures in solid brass with chromium finish. Speakman Co., Wilmington, Del.

On Readers' Service Card, Circle 126

Down the Drain

Redesigned garbage disposer reduces splash back into sink, is said to be quieter and corrosion-resistant. A ½-hp motor powers high-strength shredder. In-Sink-Erator Manufacturing Co., 4700-21 St., Racine, Wis. On Readers' Service Card, Circle 127

Services

Translucent Hangar Doors



Vinyl-nylon sandwich doors let light into airplane hangars, are said to be secure in winds up to 80 knots and unaffected by extreme temperatures. Electric motors roll 90' x 25' doors up or down in two minutes. Quiet operation, freedom from jamming due to ground heave, small storage space, and economy are said to be some of the advantages. Shown is installation at Cincinnati Lunken Air Transportation Center (doors closed). R.L. Kuss & Co., Findlay, Ohio.

On Readers' Service Card, Circle 128

Walls of Glass and Epoxy

Chunks of stained glass are embedded in a matrix epoxy

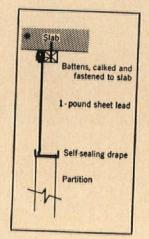
LEAD establishes a new sound barrier

Today, foreign sounds invading your privacy need not be tolerated in office or factory. Thin-sheet lead, used as a plenum or over-ceiling barrier effectively reduces noise transmission from one area to another. Tests have confirmed that thin-sheet lead used as a plenum sound barrier as in the State Street Bank's new Boston headquarters (illustrated below) is acoustically superior to any other conventional building material.

The movable partitions in this \$30-million concrete and glass tower were terminated at a hung ceiling height, creating a plenum space immediately above. Then, thin sheets

of non-porous, naturally limp lead were hung from the slab and dropped to the partitions below. The result was unmatched sound attentuation, substantially reducing the transmission of air-borne noise. And thin-sheet lead is workable . . . cuts easily simplifying installation around ducts, piping and conduits. Furthermore, lead is economical and salvageable.

For additional information write for our Practical Application of Sheet Lead For Sound Barriers brochure. Dept. N-3, Lead Industries Association, 292 Madison Ave., New York, New York 10017.



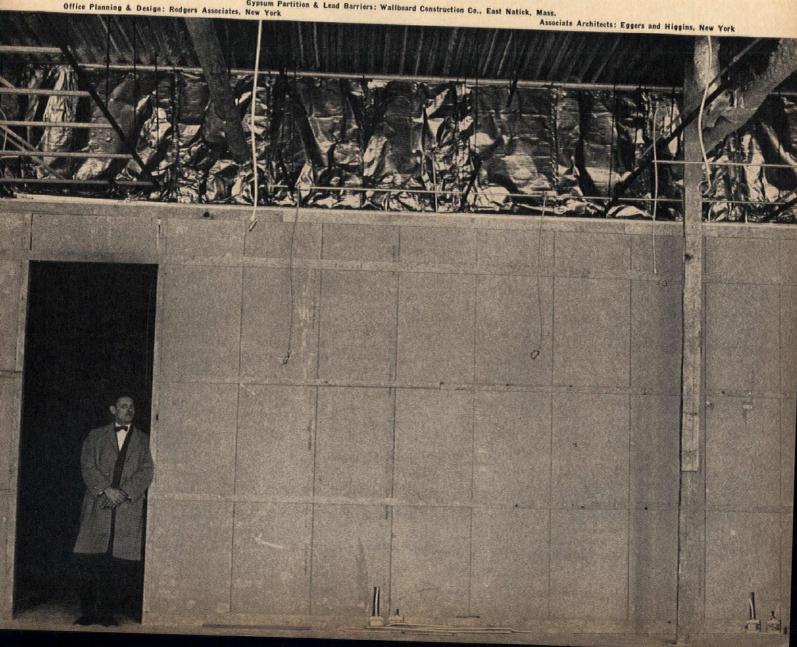


LEAD INDUSTRIES ASSOCIATION, INC.

On Readers' Service Card, circle No. 366

ook Ahead with Lead

Gypsum Partition & Lead Barriers: Wallboard Construction Co., East Natick, Mass. Office Planning & Design: Rodgers Associates, New York





resin for church window-wall panels. Cast glass (approximately 1" thick) is chipped or faceted on interior face to disperse light passing through window. Set in modular steel frames, the glass and epoxy binding are reinforced with steel rods. Conrad Schmitt Studios Inc., 1325 S. 43 St., Milwaukee, Wis. 53214.

On Readers' Service Card, Circle 129

Special Equipment

Handrails Wood Rather Be Vinyl

Vinyl handrail in dark, woodgrain finish called Brazilian Walnut is available in six profiles for flat bar and channel installations, RC Div., Hooker Chemical Corp., Hicksville, N.Y.

On Readers' Service Card, Circle 130

Highly Irregular Ice



"Hospital Ice Station" dispenses two sizes of ice in irregularly shaped granules. Floor- or wall-mounted models produce 350 lb of ice per day at 15 lb per hr. Market Forge Co., 35 Garvey St., Everett, Mass.

On Readers' Service Card, Circle 131

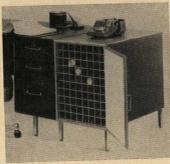
Economy Intercom

For buildings containing up to 32 apartments, the "Phonette System" increases tenant security at low cost, claims manufacturer. Package includes

two-way speaker system between lobby and each apartment; main entrance release button for each tenant; small power supply cabinet and door release. Auth Electric Co., Inc., 34-20 45 St., Long Island City, N.Y. 11101.

On Readers' Service Card, Circle 132

Executive Touch



Furniture-coordinated file makes plans easily accessible to a man at his desk. Desk-height steel cabinet is available with twenty 4½"-square cubicles or with eighty 2½" cubicles. Finished in 11 colors; wood-grain vinyl top optional. Plan Hold Corp., 21611 Perry St., Torrance, Calif.

On Readers' Service Card, Circle 133

Molded to Match



Wood-grain vinyl moldings in several profiles can be furnished to match paneling. The rigid vinyl is said to be resistant to chemicals, scratching or chipping, and to be easy to work with. Colorful pattern finishes are also available. Jarrow Products, Inc., 2000 North Southport Ave., Chicago, Ill. 60614.

On Readers' Service Card, Circle 134

New Math— Electronic Style



"Victor 3900" electronic calculator can add, multiply, subtract, or divide. The calculations and results show on a 4" x 21/2" illuminated screen that can accommodate 20-digit figures. The machine features five display registers: three calculating registers show the two factors and the result in the lower three rows in logical sequence; two storage registers hold running totals, or constants for repeated use. Another feature is an automatic round-off/drop-off that provides accurate answers to whatever decimal place is selected up to 15 before dropping unwanted decimal places. Weighs 25 lb. Victor Comptometer Corp., 3900 North Rockwell St., Chicago, Ill. 60618.

On Readers' Service Card, Circle 135

Safety Mat for Playground Equipment



"Safety-Surf," a 1"-thick interlocking rubber matting, provides permanent, maintenancefree installation beneath playground equipment, says the manufacturer. A waffle-like network of honeycombed ribbing on the underside of the matting absorbs impact of children's bodies. Safety-surf is available in 2' squares, and can be installed with recessed bolts over any hard-surfaced base. Matting is nontoxic and cannot harbor rodents or insects. Mitchell Rubber Products, 2120 San Fernando Rd., Los Angeles 35, Calif.

On Readers' Service Card, Circle 136

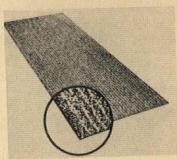
Surfacing

Par for the Clubhouse

"Par" spike-resistant carpeting, designed especially for country-club locker rooms, bars, and pro and coffee shops, meets the challenge of spiked golf

shoes. Sheared virgin nylon is fused to an extra-tough ½" vinyl base; the carpet rebuffs dirt, as well as spikes. "Par" is available in three tweed colors: beige, gray, and red in roll lengths up to 90'. International Rubber Corporation, 83 High St., Boston, Mass. On Readers' Service Card, Circle 137

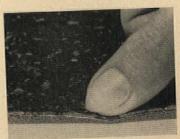
Carpet Unaffected by Golf Shoes



"Deluxe Heavy Duty Nylon-On-Vinyl Matting" is a 100 per cent cut-pile nylon, permanently bonded to a 1/4"-thick vinyl backing. Cut-pile nylon is nonflammable, does not catch high heels or spiked shoes, and is easily cleaned. Matting does not break, crack, rot, or become brittle; it is said not to be affected by grease or chemicals. Gray or beige tweed stripped or red tweed designs are available in 34", 46", or 70" widths and in any length up to 30'. Matting has flushfinished edges and no borders. R. C. Musson Rubber Co., Akron, Ohio. 44306.

On Readers' Service Card, Circle 138

Step Softly



Three-layer vinyl flooring has foamed vinyl cushion back for comfort, noise reduction, and warmth. Top layer is inlaid vinyl chips, and second layer is glass fiber to protect against dents from furniture or sharp heels. Noise reduction is said to be considerable. 8 colors. Armstrong Cork Co., Lancaster, Pa.

On Readers' Service Card, Circle 139



New Mid-South Coliseum, Memphis, Tenn. / Architects: Furbringer & Ehrman; Robert Lee Hall & Assoc.

HAVE A HILLYARD ARCHITECTURAL CONSULTANT DETAIL SPECIFICATIONS ON TROPHY® GYM FLOOR FINISHING

DESCRIPTION: A seal and a finish specially formulated for wood gymnasium floors to give a light, durable, slip resistant playing surface that will resist rubber burning and marking.

SPECIFICATION AND HOW TO APPLY: An epoxy seal and finish. Apply with lambswool applicator. Seal coat fills porous wood surface. Additional seal coat may be required on highly porous wood. Game markings, using Hillyard Gym line paint, are painted in before finish coats are applied. Two finish coats are required. See Sweets Arch. File for detailed specification.

COVERAGE (Average): Trophy Seal -350 sq. ft. per gallon. Trophy Finish -500 sq. ft. per gallon.

TECHNICAL DATA: N.V.M.: Trophy Seal—28%, Trophy Finish—40%. Color: Gardner (typical) 4-5 (extremely light). Drying time: 7 hours to overnight (depending on humidity). Produces a glare free surface with proper light refraction. Exceeds all standards for abrasion resistance.

Non-darkening—eliminates need for removing or sanding off finish for 10-15 years.

GUARANTEE: Controlled uniformity. Vacuum-packed. When applied according to directions and under supervision of a Hillyard representative, all claims for the product are guaranteed—provided containers are received at job site with factory seal unbroken.

MAINTENANCE: Regular treatment with Hillyard Super Hil-Tone dressing for conditioning and dust control.

APPROVALS: Maple Flooring Mfrs. Assn., Institutional Research Council. Listed by Underwriters' Laboratories as "slip resistant". In use: 12 years on all major basketball tournament floors.

REFERENCES: Sweets Architectural File, section 13n Hi

A.I.A. File No. 25G A.I.A. Building Products Register

Free follow-up "job captain" service protects your specifications. A graduate Hillyard Architectural consultant will gladly consult with your specification writers on proper, approved procedures and materials for the original treatment of any type floor you specify. Write, wire or call collect.



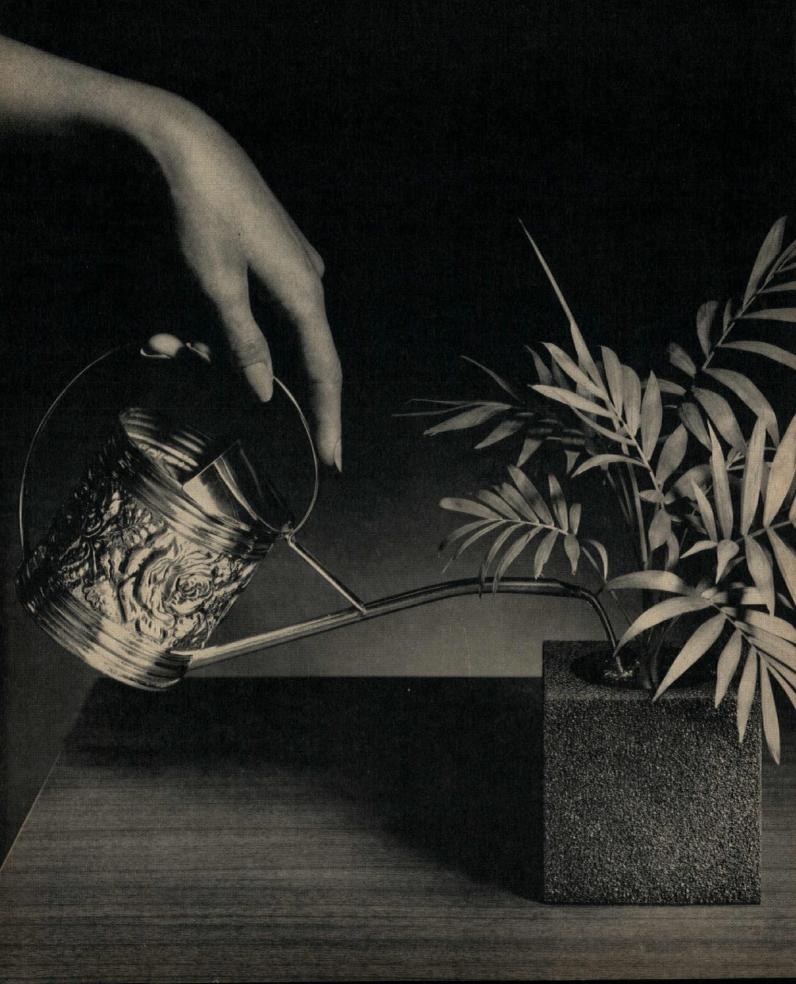


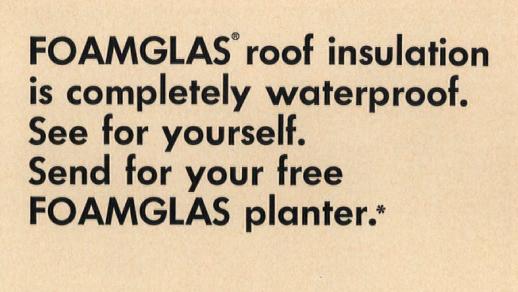


The most widely recommended and approved treatments for every surface

On Readers' Service Card, circle No. 358







We made this little conversation piece for you out of FOAMGLAS Cellular Glass Roof Insulation. We're offering it—complete with palm plant—so you can put it on your desk, water the plant as often as you need to (or want to) and see for yourself: our claim holds water. FOAMGLAS is absolutely waterproof. It's the only completely waterproof insulation.

All other roof insulation will absorb moisture if the roof leaks or if vapor migrates from within the building. That can mean expensive repairs or replacements. FOAMGLAS stays dry and always keeps its original efficiency.

FOAMGLAS is guaranteed for 20 years. Once it's down on your client's roof, he's protected.

Send for your free FOAMGLAS planter. And learn about the new bevel-edged FOAMGLAS-BOARD.

In Western Europe, Foamglas® cellular glass insulation is manufactured and sold by Pittsburgh Corning de Belgique, S.A., Brussels.

*Due to customs regulations, offer good only in continental United States.





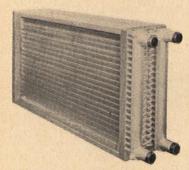
For gymnasiums, stages, shop floors, bakeries, manufacturing plants

Robbins LOCK-TITE is an improved mechanically-fastened wood floor system at lower cost. Dimensional stability results from completely integrated design of 33/32" MFMA Northern Hard Maple flooring locked into steel channels anchored to slab. Asphalt-impregnated insulation board isolates the slab, improves rebound action through more uniform resilience, and reduces sound transmission. All installations of LOCK-TITE Floors are made and jointly guaranteed by Robbins and authorized Robbins floor contractors throughout North America, Mail coupon for complete data.

ROBBINS FLOORING COM	DANY
Dept. PA-366	PANI
White Lake, Wisconsin 54491	
☐ Send complete information of ☐ Advise name of authorized i	
Name	
Firm	
Address	
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ROBE	N S BRUCE
St	ubsidiary of E. L. Bruce Co.

Air/Temperature

Fin-Coil Units



Two-part booklet covers fincoil units constructed of copper tubes and aluminum or copper fins for systems using: (1) water for heating and cooling; and (2) R-12 or R-22 refrigerant for cooling and dehumidifying. Booklet contains photos, comprehensive charts, graphs, and tables giving performance and selection data, and information on installation and maintenance. 60 pages. Westinghouse Electric Corp., Sturtevant Div., Hyde Park, Boston, Mass. 02136. On Readers' Service Card, Circle 200

Construction

Redwood Story



Photos illustrate varied use of redwood siding in residential work. Pamphlet describes redwood grades, finishes, and siding patterns. California Redwood Assn., 617 Montgomery St., S 94111. San Francisco,

On Readers' Service Card, Circle 201

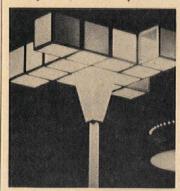
Expansion Joint

Pamphlet illustrates applications of a flexible expansion joint for roof decks. "Metalastic," a butyl strip bonded to metal flanges, can be applied like sheet metal flashing or snapped on to curbs. Tables give sizes of available types. Great Lakes Carbon Corp., 333 N. Michigan Ave., Chicago, Ill. 60601.

On Readers' Service Card, Circle 202

Plexiglass For Lighting

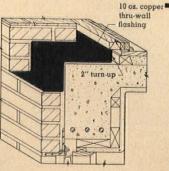
Revised and expanded design data by Rohm & Haas discusses physical and optical characteristics of Plexiglass. Booklet gives tables on physical properties, sheet sizes and thicknesses for translucent, transparent, and patterned



sheets; transmittance and distribution curves and coefficients of utilization are given for fixture diffusers. Booklet discusses museum lighting and luminous-ceiling design. 44 pages. Rohm & Haas, Philadelphia, Pa. 19105.

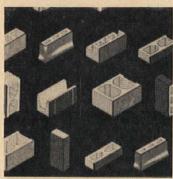
On Readers' Service Card, Circle 203

Copper Flashing



Four types of copper flashing are described in a 16-page booklet: (1) through-wall interlocking system with bonding ribs; (2) two-piece cap flashing-one member laid in wall and second member snapped in after roofing; (3) two-piece reglet system-reglet attached to wood form before pouring of concrete inner walls; (4) lightweight wrought copper, laminated both sides to polyethylene film. First three systems are ribbed; fourth is smooth surface. (Sample is attached to booklet.) Installation details, specs, photos, and explanatory text. Revere Copper and Brass Inc., 230 Park Ave., New York, N.Y. 10017. On Readers' Service Card, Circle 204

Glazed Concrete Blocks



Brochure gives color charts, available shapes and sizes, and construction details for two series of glazed lightweight concrete blocks: Functional Series and Design Series. The latter includes scored faces, concave and convex surface patterns, and monogrammed blocks. 16 pages. The Burns & Russell Co., P.O. Box 6063, Baltimore, Md., 21231. On Readers' Service Card, Circle 205

Electrical Equipment

On the Wall

Globes, cylinders, and squaresection lighting fixtures for wall mounting are available in plastic, metal, and "half & half." Two catalogs, for indoor and outdoor fixtures, give charts and photos. Habitat Inc., 341 E. 62 St., New York, N. Y. 10021

On Readers' Service Card, Circle 206

Let It Rain

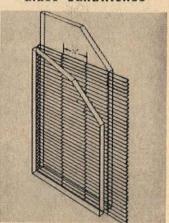


Catalog of lights for indoor, outdoor, and wet locations, gives sizes, descriptions, sections, and photos of weatherproof and corrosion-resistant cast aluminum fittings. Booklet includes wall, ceiling and post units, night lights, step lights and edge-lit directionals. 20 pages. McPhilben, 1329 Willoughby Ave., Brooklyn, N. Y. 11237.

On Readers' Service Card, Circle 207

Doors/Windows

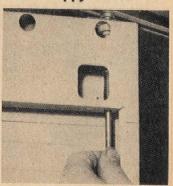
Glass Sandwiches



"Acousta-Pane," a glass and plastic laminate especially designed to stop sound, is available in transparent, white translucent, or tinted sheets. Another sandwich of small horizontal bronze louvers (17 or 23 per inch) sealed between glass lights, is called "Comfor-Lite." Also described are amber glass, frosted glass, shat-ter- and bullet-resistant glass — all laminates. Brochure gives light-transmittance tables, charts, specs, sizes, photos, and comparison curves for sound transmission. 12 pages. Amerada Glass Corp., 2001 Greenleaf Ave., Elk Grove Village, Ill. 60007.

On Readers' Service Card, Circle 208

Snappy Doors



Steel folding doors with baked enamel finish snap into alumi-

It's a Mirror.. (from the brighter side)



It's a Window.. (from the dimmer side)



Mirropane is used for observing consumer marketing reaction panels at Fuller & Smith & Ross Inc., advertising agency, Los Angeles, Calif.

It's Mirropane.. (the "see-thru" mirror)

Mirropane lets you observe without being seen. It's now available in Parallel-O-Grey® plate glass to work satisfactorily with only a 2-to-1 difference in illumination. For more facts, phone your L·O·F glass

distributor or dealer, listed under "Glass" in

the Yellow Pages, or write

LIBERTY MIRROR

A DIVISION OF LIBBEY-OWENS-FORD GLASS COMPANY 8236 L.O.F Building, Toledo, Ohio 43624

On Readers' Service Card, circle No. 468

num tracks with plunger-type hardware. Louvered doors, assembled in two- and four-door units, are suitable for residential, commercial, or institutional use. Two pamphlets illustrate doors and give selection charts, specs, styles, and installation procedures. Kennatrack, Ekco Building Products Co., 1250 Bedford Ave., S.W., Canton, Ohio 44701. On Readers' Service Card, Circle 209

Finishes/Protectors

Danish Finish

Polymerizing action of "Danish Oil Finish" penetrates wood to harden and seal. It is naturallooking, has a low-gloss patina, comes in four shades for interior panelling and furniture, and is easy to apply. Data sheets give description, application, specifications. Postcard sample available. Watco-Dennis Corp., 1756-22 St., Santa Monica, Calif.

On Reader's Service Card, Circle 210

Coatings for Any Wall

Ten wall coatings are formulated to meet varying requirements. There is a coating to resist fire, and one to resist chemical abuse, a coating that "breathes," one for irregularly shaped roofs, one to bridge minor cracks and resist chemicals, one for application on structural steel and metal panels, two that incorporate exposed aggregates of various grades, a textured acoustical coating, and a cementitious glaze-type coating that bonds to masonry. Flooring and roof decking are also included in a pamphlet with descriptions and photos. Desco International Assn., P. O. Box 74, Buffalo 5, N.Y.

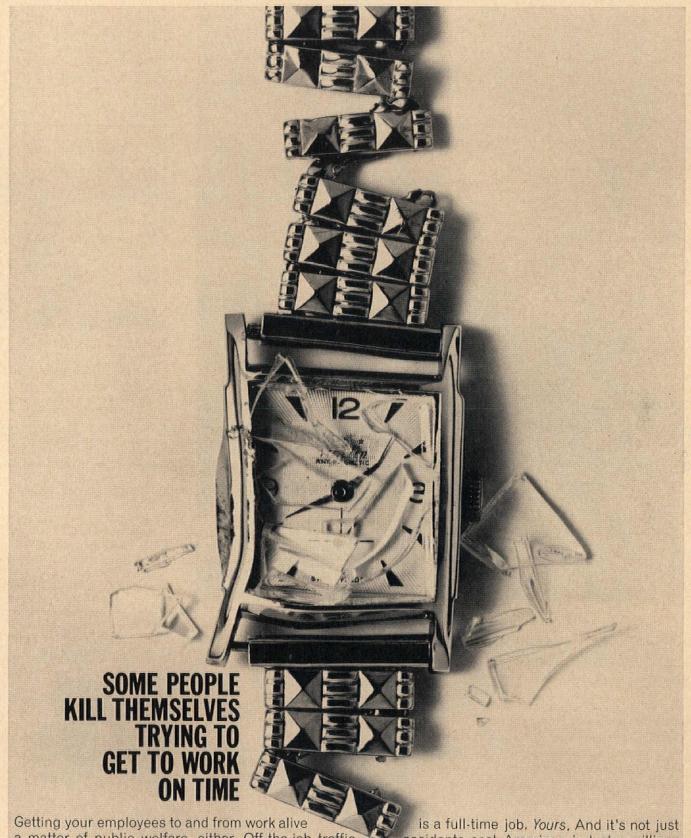
On Readers' Service Card, Circle 211

Furnishings

Space Savers

Four succinct pages show the Howard Miller Inner-Wall Cabinet line, which includes several types of shallow, compact storage cabinets for bathrooms or bedrooms in hotels, dormitories, and hospitals. elsewhere. Some have mirrors, electrical outlets, clock and radio, others are simply shelf units for odds and ends; also a hamper and drier. Designed

March 1966 84 Manufacturers' Data



Getting your employees to and from work alive a matter of public welfare, either. Off-the-job traffic accidents cost American industry millions of dollars in lost time, training and production every year. Last year alone, more than twenty thousand workers were killed in off-job motor vehicle accidents. And more than 750,000 were injured. Motor vehicle accidents claimed more than 1½ times as many lives as on-the-job accidents. Can you do something about it? You really can't afford not to. Write now, to the National Safety Council for information on what you and your company can do. Address your letter to the Director of Public Information, National Safety Council, 425 N. Michigan Avenue, Chicago, Illinois 60611. Published to save lives in cooperation with The Advertising Council and the National Safety Council.

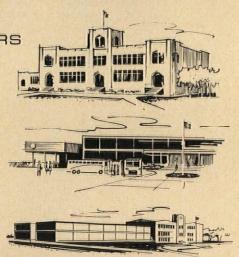




DONLEY PRE-ENGINEERED SUCCESSFUL INCINERATORS FOR EVERY SCHOOL NEED

Every new building can use a Donley preengineered incinerator. Donley provides the package . . . dimensional drawings, parts, burners, doors, air vents, grates, etc. for installation by local masons.

Flue-Fed or Direct-Fed, large capacity or small, constant or varying requirements . . . Donley is the efficient, automatic incinerator for schools, high rise apartments, commercial buildings or wherever common burnable refuse happens. Easy, too . . . just specify Donley. Write for handy selector chart and new incinerator catalog.



THE DONLEY BROTHERS COMPANY

13900 MILES AVENUE, CLEVELAND, OHIO 44105



to be built into the wall or surface-mounted, the entire line of 24 combinations is designed around six basic modular units. Offered in natural wood finishes or epoxy colors. Prices, measurements, specifications, one-year guarantee. Howard Miller Clock Co., Zeeland, Mich.

On Readers' Service Card, Circle 212

Lamidall a Wall



Complete information on Lamidall wall paneling is available in eight-page booklet: installations are illustrated, data and specifications given, corner and edge treatment detailed (strips in wood grains and, rather touching, anodized gold aluminum; feature and divider strips), and the 23 patterns are pictured. These include a dozen wood grains - six walnuts to a white Indian teak, nine solid colors (fair to middlin' range), one white marble, and the too-perennial "gold-spar-kle." Lamidall, Div. of Woodall Industries, Inc., 425 Maple Ave., Carpentersville, Ill. On Readers' Service Card, Circle 213

Stainless-Steel Debutante



The serviceable "Sabre" series makes its debut in a 15-page brochure. Eighteen different chairs (arm, swivel, stacking, secretarial) and several multiple seating units are covered in Naugahyde, other coverings optional. All arms upholstered or wood-capped; 3"-thick seats

have hardwood frames with heavy-gage sinuous springs attached, and are covered with molded polyfoam. Heavy-duty frame construction of 3/8" tube 16-gauge steel has welded joints. Same design available at a lower price with frames of chrome or enameled steel. Milwaukee Chair Co., 3022 W. Center St., Milwaukee, Wis.

On Readers' Service Card, Circle 214

Let Clients Plan Kitchens





Kitchen Planning Portfolio, designed to give the consumer a practical guide for all phases of kitchen planning, will be a valuable aid for clients. Portfolio includes the basic rules of design, function, and construction; graph paper and tracing guide for floor plan designing; and a color guide. A "clip and save" section contains information on materials, construction, processes. "Cabinetmaker Kitchens" album (\$1) and "Kitchen Planning" guide (no charge) available separately; complete portfolio, \$2. Mutschler Brothers Co., Nappanee, Ind.

On Readers' Service Card, Circle 215

Sculptured Walls

Three four-page brochures offer three variations of Erwin Hauer's sculptured walls. Blackand-white photos demonstrate the versatility of the modular blocks in a range of interior and exterior uses. Smallest in

Terrafino

"INSTANT" TERRAZZO SAVES TIME AND MONEY! ... is easier to design with



TERRAFINO is the original 12"x12"x3/16" flexible tile with real #1 and #2 marble chips permanently bedded in a tough epoxy plastic matrix. The TERRAFINO floor pictured above (Calico Kitchen Restaurant, Cheltenham, Pa.) is a typical example of the benefits to be derived from this modern way to install terrazzo.

TERRAFINO SAVES TIME

It is rapidly installed in the same manner as resilient tile-with a trowelled mastic. This terrazzo floor can be installed and ready for traffic in one working day!

TERRAFINO SAVES MONEY

In addition to the savings involved in cutting a week or more off conventional terrazzo installations, TERRAFINO saves money two other important ways:

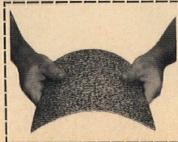
- 1. It usually costs less than conventionally placed terrazzo.
- 2. It maintains like terrazzo—for far less than resilient tile.

WIDENS DECORATIVE SCOPE OF TERRAZZO

TERRAFINO can be used with conventional vinyl feature stripping for many practical and decorative effects.

Learn more about how TERRAFINO flexible terrazzo tiles may solve your flooring problems. Send coupon for samples, descriptive literature and specifications to:

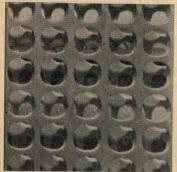
TERRAFINO COMPANY, P.O. BOX 52, CARLSTADT, NEW JERSEY



TERRAFINO CO., Please send ☐ Sar on TERRAFINO to:	nples Literature	RLSTADT, N.J.
Name		
Firm		
Street		
City	State	Zip No

On Readers' Service Card, circle No. 405

scale is available in white gypsum for interior installation only; others available in white



or gray concrete (for exterior use) and white gypsum. Brochures include installation instructions. Arts for Architecture, Inc., 50 Rose Place, Garden City Park, N. Y. On Readers' Service Card, Circle 216

Wholly Light

Four-page brochure shows aluminum and opalescent glass lighting fixtures for churches. Four styles are perceptively titled: "Futura," "Moderne," "Contemporary," and "Early American." Fixture construction includes rings, poles, brackets, and covers; nave and

companion lights. Diagrams, black-and-white photos, complete specifications. Also shown: fiberglass baptistry, church spires. Wiedemann Industries, Inc., P. O. Box 672, Muscatine, Iowa.
On Readers' Service Card, Circle 217

Carpet Kit



A kit from Masland features "Paradine," a velvet-weave carpet of the Hercules Powder Company's Herculon olefin fiber. A sturdy 81/2" x 11" book-type folder, Paradine kit contains samples of the nine tweed colorations and pertinent information: The commercial carpet is said to be stain-resistant, color-fast, easily cleaned, dimensionally stable, and virtually static-free. Stocked in 12' widths. Contract Carpet Dept., C.H. Masland & Sons, Carlisle, Pa.

On Readers' Service Card, Circle 218

Insulation

Insulate Four Ways

Booklet covers four types of insulation: water-repellent vermiculite masonry fill, a rigid polystyrene insulating board, granular vermiculite for attics, and glass fiber batts. Wall systems using polystyrene sounddeadening board are also dis-cussed. Guide specs, "U" value tables, coverage tables, and recommended applications. 12 pages. Zonolite Div., W. R. Grace & Co., 135 S. LaSalle St., Chicago, Ill. 60603. On Readers' Service Card, Circle 219

Sanitation/Plumbing

For the Bath

Catalog contains specs, photos, installation details for an extensive line of bathroom hardware. 36 pages. Hall-Mack Co., 1380 W. Washington Blvd., Los Angeles, Calif. 90007. On Readers' Service Card, Circle 220

Constant Hot Water

Steam fed heat-exchange unit heats water and mixes it with cold to supply water within 8 F of preset temperature, between 110 F and 180 F. No storage tank required. Two models deliver 30 or 60 gpm. Shop drawings, piping layouts, and tables included on data sheets. Leslie Co., Lyndhurst, N. J. 07071. On Readers' Service Card, Circle 221

Surfacing

Set A Tile

"1966 Handbook for Ceramic Tile Installation" has spec guides, grouting and setting data, details for installing tile on interior and exterior walls, floors, swimming pools, refrigerator and steam rooms. Special section sets forth Tile Council's testing and Quality Certification program recently established for ceramic tile

FREE

HOW TO IMPROVE LOADING DOCKS

Get your copy of this step by step picture report

How much does it cost? How long will it take? How long will the dock facilities be tied up? All these questions and many more are answered in this 4-color, on-the-spot picture report of an actual remodeling job.

No need for your clients to put up with inadequate or slow dock facilities. See for yourself how quickly and easily Kelley Dockboard experts can convert your present dock

Send for your copy today! 55-85R3



KELLEY COMPANY, INC.

6740 N. Teutonia Ave., Milwaukee, Wisconsin 53209 On Readers' Service Card, circle No. 459

Wonderful Words . . . NO LEAKS NOW-OR EVER!"



SUPERIOR

CUSHION-LOCK®

For Counterflashing and Metal Window Frames

- LOWER IN-PLACE COST
- NO ON-THE-JOB CAULKING
- 5 DESIGNS FOR ALL TYPES OF CONSTRUCTION

When you specify Superior Cushion-Lock Reglets, you can be assured of permanently leak-proof joints, so why take chances with inadequate or unspecified substitutes that may cause serious problems. Installation is fast and because of the labor-saving advantages, total "in-place" cost is lower. Shipped ready for application. Available in extruded PVC or aluminum. For details see Sweet's File 8g/Su or write for Bulletin CL-3.

Pat. No. 2,822,762;

Concrete Accessories,Inc.

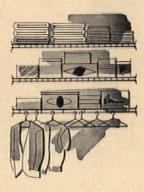
9301 King St., Franklin Park, III. Phone (312) 678-3373 2100 Williams St., San Leandro, Cal. Phone (415) 352-2830 New York • Houston • Los Angeles • Rexdale (Canada)

On Readers' Service Card, circle No. 442

Don't Stack it...



Rak it!



...with Pemco custom-made steel Rod Raks®

Versatile Rod-Raks® are used in:

Apartments Dormitories

Hotels-Motels
Public Housing

Institutions

Rod-Raks are the modern answer to general and wardrobe storage. Factory finished and cut to size, Rod-Raks are shipped ready to install complete with necessary hardware.

Specify Rod-Raks® — get what you specify.

Rod-Raks are distributed nation wide. Write for free "Complete line" literature.

PEMCO-KALAMAZOO

1872 Ravine Road Kalamazoo, Mich. Phone 342-0239 AC 616

On Readers' Service Card, circle No. 384



The space-saving advantage of sliding doors in enclosed malls and other commercial buildings is unmistakable. Fortunately, there is one locking device available: the MS® "Hookbolt" deadlock. It's the same rugged MS® mechanism used in swinging doors except its laminated steel bolt is notched. Use any make standard mortise cylinder, protect it with an Adams Rite® MS 4042 hardened cylinder guard as shown. Add a 4417 armored steel strike plate for total protection. Write Adams Rite Manufacturing Co., 1425 Grand Central Avenue, Glendale, California 91201.

ADAMS RITE

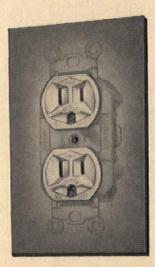
On Readers' Service Card, circle No. 321



75 Years of Leadership in the Electrical Industry

For dust and moisture problem areas

HERE'S THE GROUNDING OUTLET TO USE WHERE OTHERS WON'T DO



Fabric reinforced Neoprene gaskets protect the P&S 6207 from dust and moisture at all times by wiping cap blades and providing positive closure. Cellular Neoprene mat under wall plate further seals against penetrating elements.

Like all P&S Super Outlets, the 6207 (15 amp. 125 volt) has individually recessed, reinforced contacts and a dead back safety feature.

Where to use it? Industrial plants, laboratories, workshops, garages, cellars, carpenter shops—in any areas where dust and/or moisture are problems. (This device is not recommended for unprotected outdoor areas.)

Want more information? Write Dept. PA 366, Pass & Seymour, Syracuse, New York 13209

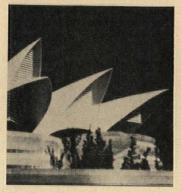


PASS & SEYMOUR, INC.
SYRACUSE, NEW YORK 13209
CHICAGO LOS ANGELES SAN FRANCISCO



made in U.S. Tile Council of America, Inc., 800 Second Ave., New York, N. Y. 10017. On Readers' Service Card, Circle 222

Plain and Fancy Tiles



Catalog illustrates glazed and unglazed tiles in many colors, surfaces, and sizes for walls and floors of commercial, industrial, and residential buildings; decorative relief tiles in a number of patterns and profiles; swimming pool tiles; and precast panels. The roof of the Sydney (Australia) Opera House is clad with Hoeganaes tiles. In addition to color photos, illustrations show available shapes with size/color/weight tables, installation details, and brief specs. 16 pages. Hoeganaes Ceramic Co., Taylors Lane, Riverton, N. J. 08077.

On Readers' Service Card, Circle 223

Colored Cork Tiles

Brochure illustrates "Color-Cork" natural cork tiles and rolls impregnated with variety of colors for use on floors and walls. It has a noise reduction coefficient of 0.11. Cork resists water, dirt, and stains. Color-Cork is available in 16 solid colors, eight "Jaspe" colors (a blend of two of the standard solid colors) and eight "Multi-color" colors (a blend of three or more either contrasting or harmonious colors). 4 pages. Gotham Materials Inc., New Rochelle, N.Y.

On Readers' Service Card, Circle 224

PROGRESSIVE ARCHITECTURE TINOTEN SWEW

REINHOLD PUBLISHING CORPORATION 430 Park Avenue, New York, N.Y. 10022

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- Automatic Water Cleaning Daily .
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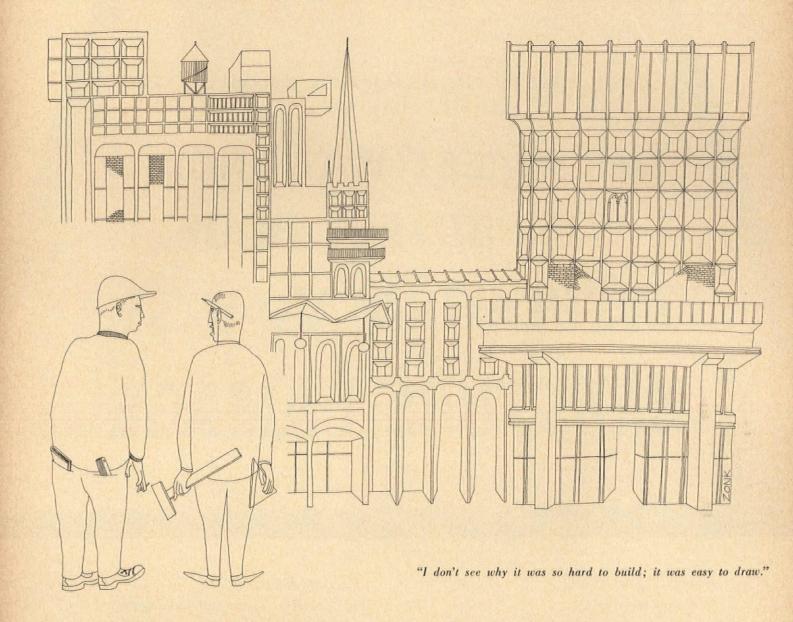
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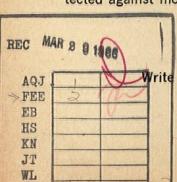
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