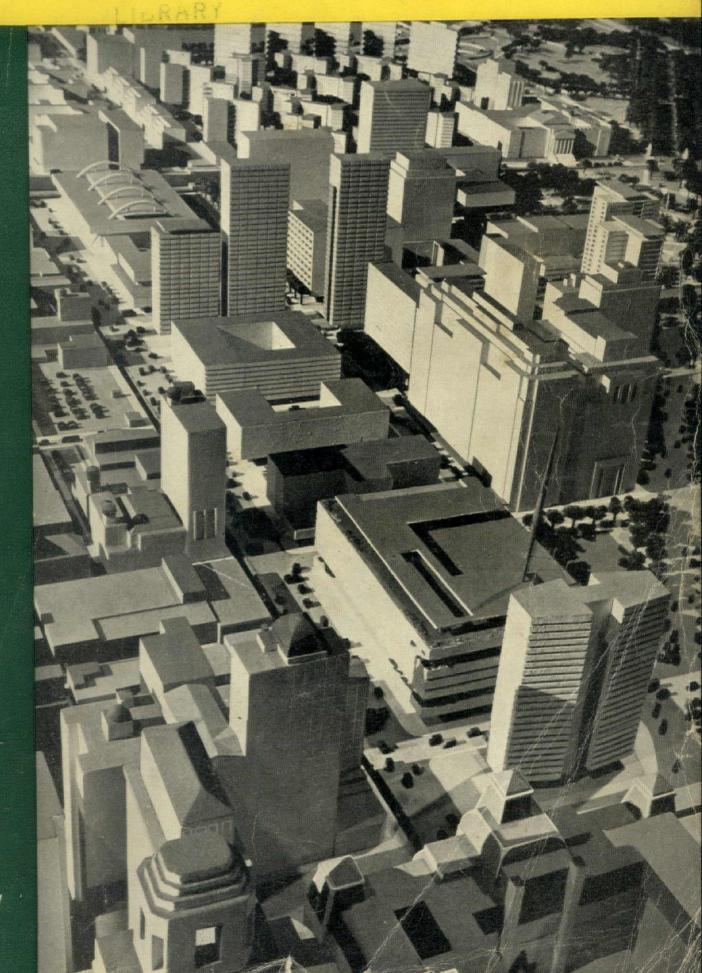
CIRCLALE

# The Architectural FORUM Magazine of Building



ecember 1947





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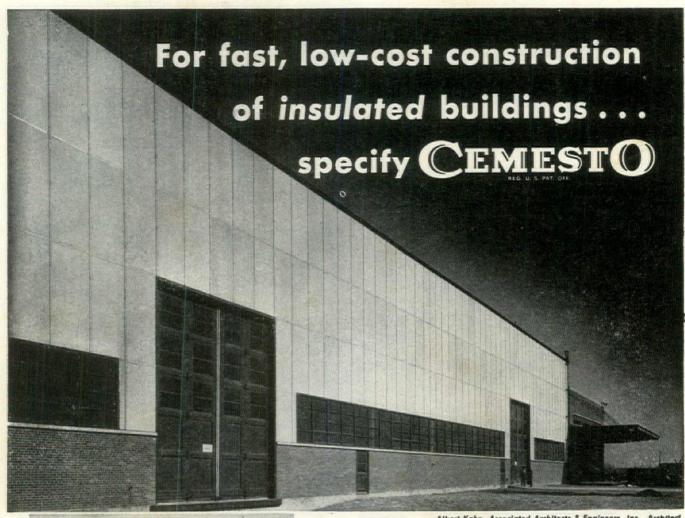
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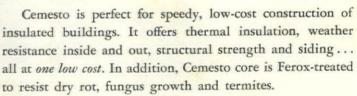
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Albert Kahn, Associated Architects & Engineers, Inc., Architect

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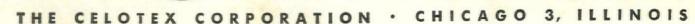
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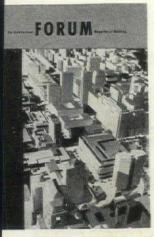
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MAGAZINE OF BUILDING

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Cover photo (New Philadelphia): Exra Stoller

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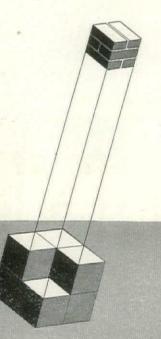
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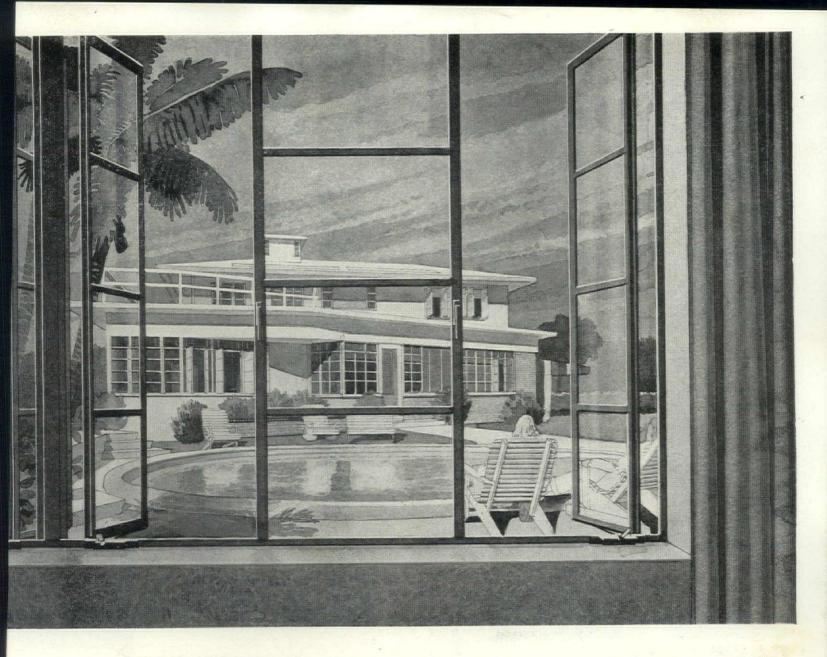


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# NEWS

# HOUSES

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BUILDING MONTH. Everybody agreed that 1948 was going to be a good year. Even the most pessimistic guesser—F. W. Dodge's Thomas Holden—guessed that it would be at least as good as busy, housebuilding 1947. The joint Department of Commerce and Department of Labor forecast was the most optimistic: the government statisticians looked forward to \$15.2 billion worth of new construction, with a 25 per cent increase in housebuilding accounting for the biggest part of the rise (see figures, p. 10). The Producers' Council took a more moderate view: \$14 billion—a 13 per cent dollar increase over 1947—is what the materials' men expect.

The forecasters all shared the opinion that, while housebuilding volume is trending upward, industrial construction is leveling off. (A notable exception: Admiral Ben Moreell

said that Big Steel alone will spend \$1 billion for expansion in 1948). But stores and other commercial construction would follow housebuilding's expansion into new neighborhoods. The big government-aided hospital building programs (see page 11) would account for another big chunk of building.

Last month's rate of housebuilding confirmed the forecasters' rosy expectations. Housebuilding's phenomenal contra-seasonal rise continued in November. The Commerce Department figured that the month's housebuilding amounted to \$525 million, a gain of 2 per cent over record-breaking October. The continuing brisk rate of housebuilding held November's total construction volume (\$1.253 billion) to a less than seasonal drop of only 5 per cent.

On what bustling 1948 will do to building prices, there was much less agreement. Home builders of New York, New Jersey and Connecticut, meeting for a joint conference, agreed gloomily that the cost of building a house will go even higher in the next six months. The builders said they are still buying nails, toilet fixtures, and black steel pipe at double-prices in the "gray market-and they expected things to get worse before they better. The most hopeful looker-ahead was Robert W. Mc-Chesney, president of the National Electrical Contractors Association, McChesney told the U. S. Chamber of Commerce's construction industry advisory council that "the price of houses seems to have reached a plateau and there is a reasonable expectancy that the price will decline."

Commerce-Labor forecasters let the public in on their own tussle with the price question. They said that they had "decided to reject the fairly prevalent opinion that housing costs are too high in relation to income and in relation to other prices" and had given "greater weight to the belief that market strength arising chiefly from the still severe housing shortage more than counterbalances the evidence suggesting a possible decline."

Government housing chief Raymond Foley was not so sure. Foley thinks house-building can't keep selling indefinitely at present prices, and believes that the house-building business can still find a way to yank down its own inflation (see below).

There were, however, signs that the government may lend a hand. If Congress takes Federal Reserve Chairman Marriner Eccles' hard-boiled advice, it will cut down the easy flow of government credit into housebuilding. This is not likely to mean a

sharp retrenchment in the long-term FHA program or the GI guaranty plan, but rather a gradual, general tightening up on appraisals and a scaling-down of mortgage loans. It may also mean a cold shoulder for any new proposals to stretch government credit farther-such as the American Legion's bill for federally backed housing cooperatives. The new trend was already (but rather weakly) apparent in the Senate Banking and Currency Committee's amendment to the bill boosting FHA's Title VI insurance ceiling by another \$1 billion. The amendment instructs FHA to "use every feasible means to assure that estimates [of necessary current costs] will approximate as closely as possible the actual cost of efficient building operations."

Building money already felt a firming of interest rates, while the general tightening of mortgage credit was making inroads on the GI home loan program. The National Association of Real Estate Boards, taking its 47th semiannual look at the real estate market, said that in almost one-fourth of U. S. cities long-term mortgage money is not now readily available to veteran home buyers. Said NAREB: "The old-time regional maladjustment in mortgage flow, which the FHA and the HLBA have done so much to correct, is reappearing."

But even Eccles had said: "Production is the ultimate solution for inflation." This was the rock-bottom of housebuilding's dilemma. Curbing housebuilding credit would make it harder to buy houses—but it was a little like pounding down a cork in a near-explosive bottle. Everybody knew that the best way to take the heat off house prices was to build houses for every family who needs one—at prices they can afford to pay. That job, as it had always been, was up to the housebuilding business.

# HOUSES

# PRICE-CUTTING

# Let's have some local "disarmament" conferences, says housing chief Foley

Riding high but uneasily on the housing boom, housebuilders got a sobering prophecy from a man who should know: Raymond Foley, able chief of the Housing and Home Finance Agency. Said Foley: "the housebuilding business cannot keep on selling at its present rate for much more than a year—unless it cuts its prices."

Foley thinks house prices can and will be cut—and he thinks he knows one way to help the price-cutting along. This is a kind

Departments of Commerce and Labor (Millions of dollars)						
Total new construction	1948 \$1 <b>5,200</b>	1947 \$12,665				
Private	11,375	9,730				
Residential building (nonfarm)	6,000	4,800				
Nonresidential building (nonfarm)	3,250	3,165				
Industrial	1,350	1,695				
Commercial	1,125	880				
All other	775	590				
Farm	500	450				
Public Utility	1,625	1,315				
Public Residential building	3,825	2,935				
Nonresidential building	850	500				
Industrial	25	30				
Educational	375	255				
Hospital and institu-						
tional	225	75				
All other	225	140				
Military and naval	250	195				
Highway	1,500	1,190				

of repeat performance of the successful campaign he launched last spring to get rental housebuilding underway.

375

125

475

300

115

375

85

Sewer and water

service

opment

All other public

Miscellaneous public

Conservation and devel-

Foley would like to see conferences on ways and means to lower prices initiated by the building industry on the local level. These conferences would be no attempt to pin the blame for the boost in house prices. They would be, rather, "disarmament" conferences in which everybody involved in the price of a house would be expected to try to find out how he could cut it down.

Foley takes a cheerful view: "Greater productivity, still more ingenuity in design, merchandising and land use can cut house prices. It is not a matter of reducing the 'take-home pay' of either management or labor. It is a matter of putting less labor and management pay into each house, of reaching a lower unit cost."

# AMERICAN LEGION

# Its housing parade marches down the middle of the road

Looking anxiously for a safe place in the current housing mess, the American Legion over the last year has been hopping in and out of the real estate lobby's pocket at a rate almost too fast to follow with the naked eve. From time to time the Legion has asked for government controls to speed veterans' housing. But, each time, a sobering talk with realtors' Herbert U. Nelson has been enough to change the Legion's mind. Nelson was also successful in parrying a threatened endorsement of the T-E-W general housing bill at the recent Legion convention in New York.

But when the Legion last month named Walter E. Alessandroni, Philadelphia, as chairman of its housing committee, housing politicos looked for a shift in the wind. They remembered that Alessandroni had led the convention fight for the T-E-W bill and had presented the minority report urging Legion endorsement of the bill.

They were wrong. Alessandroni told the housers' meeting in New York (see page 10) that neither his own opinion (the T-E-W bill should be enacted) nor the Legion's official policy (the T-E-W bill is not "germane" to veterans' housing problems) had changed a bit. As an officer, he said, he would simply execute the Legion's housing mandate.

The Legion has been finding its own middle-of-the-road on housing, and last month unwrapped proposed legislation intended to make the road a main thoroughfare. The Legion can already point to some 5.000 veterans' cooperative housing projects under Post sponsorship in the various communities (see cuts). It now proposes what it hopes will become the Veterans' Homestead Act of 1948, intended to ease financing for veterans' cooperative projects by providing the bolster of government credit.

Financing for veterans' cooperatives is, of course, already available under VA guaranty or FHA mortgage insurance. But the Legion expects to cut the cost of financing even further by its proposal for 40-year housing bonds, to be fully guaranteed by the government in both interest and principal. Another bid for big investors is the proposal to make the bonds tax exempt.

The Legion's bill, just introduced in the House by Representative Edith Nourse Rogers (R., Mass.), gives the Veterans Administration the job of managing the cooperatives. VA would be empowered to:

- ▶ Charter a Veterans Homestead Association upon the application of five or more veterans.
- > Supervise the operations of such Associa-
- ▶ Sell \$2 billion worth of bonds to be issued by the Associations (up to \$10,000 worth for each member) and set the interest rate on such bonds.
- Loan money for interim financing, pending issuance of bonds, from a revolving fund of \$100 million.

To make sure that the cooperative housing meets the needs of moderate-income groups, the bill puts a \$10,000 ceiling on each housing unit and provides that any veteran may become a member of an Association by payment of \$100. The Federal Works Administration would also be empowered to make \$200 million worth of 50 per cent grants-in-aid to communities for streets and public service facilities in connection with the veteran developments.

Marketing of the cooperative housing bonds would probably work much like the sale of their closest present parallel: the tax-exempt public housing bonds issued by municipalities. The big investmen have found it a profitable operation complete issues of these bonds, rein smaller lots to insurance compa other building investors. Despite rent deep sag in the bond market guarantee would be enough to ma erative housing bonds attractive aspect of the Legion's proposal aroused the antagonism of savings and mortgage banker groups, who siderable prestige with Congress. and home builders lobbies, how dorsed the Legion's plan.

"The full strength of the 3,245,0 bers of the American Legion will b behind the Veterans Homestead 1948," Legion Commander James promised. But, despite the we irresistability of veterans' legislation wondered if Congress would ap further extension of government an already highly inflated area (see

At a maximum, the Legion's bi mean the real beginning of a coo housing movement in the U.S. The by its low-down-payment and \$10, ing stipulations, had done its best against a repetition of the hig cooperative boom of the twenties. bill raised the old question: why h erative housing never worked in th as it has so spectacularly in the navian countries?

Many thought that more than easy ing is needed to get cooperative underway. Most cooperatives go t for lack of management and buildin how. Housing specialists deplo

Paul Peters, Busin





VETERANS COOPERATIVES already un include Frank Sharp's handsome con of wartime housing in Houston to co each (top). Sharp says monthly rates to \$10 cheaper than rental on com housing. A 24-house project at Milton Legion Post. Finished 5-room cost veterans \$7,200. (bottom cut) is sponsored by the local

n's decision to by-pass the accumuexperience of the federal housing ies and give what may turn out to be big housing job indeed to the Vet-Administration.

make veterans' cooperatives really and to protect cooperative members their own inexperience, a broad-scale am comparable to the Federal Housdministration's pioneering standards deral mortgage insurance would seem none too small an effort.

# **UILDING MONEY**

# HOUSEBOAT ROCKS

urtail Government housing loans to ght inflation, says Eccles

Federal Reserve Board's blunt MarEccles last month poked a finger into
of the soft spots in the nation's queasy
omic belly. Eccles had found nothing
everybody has known for some time
the current housing boom rests uny on a foundation of government credit,
vas merely less cautious than most govnent men in pointing to a soft spot that
ody dares to cure.

ccles told Congress that one way to inflation is to curtail governmentted home and farm loans. But, as housshortage stalked the nation, nobody ted to make it any harder than it is ady for Americans to connect with

he shape of the dilemma had already made plain in the veterans' home loan gram. VA had deplored an appary growing tendency among lenders to ire heavy down payments from veterans ing houses under government guaranty. the lenders could argue that one way to a man from buying a house he cannot rd—and so adding his personal push he inflation in housing prices—is to ask for a stiff down payment.

Billion More. Now the dilemma was rer than ever as Congress faced the essity of boosting FHA's Title VIso pouring \$1 billion more in governnt credit into the housing inflation, FHA If has always been wary of the extra s of war-born Title VI and, time after e, has refused to ask Congress to raise insuring ceiling until the whole prom stopped dead—it did on November 12. 'HA's reluctance to see the bottom of Title VI pocketbook has been a peren-I headache for builders, who must forsee approaching bottom and rush through rtgage insurance applications in advance actual need. But this is more than bad ssing on FHA's part; it is simply FHA's sive resistance to what it considers a agerous extension of government credit. HA's Title VI was set up to absorb the ra risks of war housing. It differs from long-term (Title II) FHA program in

(Continued on page 12)

# HOSPITAL CONSTRUCTION: government-sponsored boom is underway.



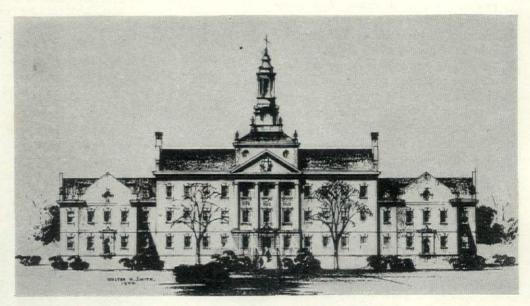
LANGDALE, ALA. HOSPITAL, FIRST APPROVED UNDER HOSPITAL ACT, WILL HAVE 82 BEDS

Reni photo



SURGEON GENERAL PARRAN, FSA'S EWING SIGN

Signing of the first contract under the U. S. Public Health Service program marked last month a construction start on \$1 billion worth of hospital building. This is in addition to the \$1.125 billion veterans' hospital program. Comparison of the plan for the biggest veterans' hospital, (below), with the first plan to be approved under the civilian program (above), suggests that the U. S. Public Health Service is making somewhat better use of its money.



Biggest veterans' hospital, the Franklin Delano Roosevelt, is almost finished near Peekskill, N. Y. Construction is under direct supervision of the Corps of Engineers, New York District. Hospital will cost about \$4,200,000.



its appraisal base of "current costs" rather than "stabilized values" and its provision for high-percentage loans made direct to builders. The maximum permissable mortgage for a single-family house has also gradually been raised: it is now \$8,100, which means a 90 per cent loan on a \$9.000 house.

The Big Question. Twin House and Senate bills to boost the Title VI insurance ceiling by \$1 billion were in the hopper. Nobody doubted that Congress would fail to pass them—to do so would mean the collapse of housebuilding. But the real question will come when the legislation creating Title VI expires next April. Then Congress will be obliged to decide whether the liberal credit terms of Title VI need to be tied tighter—a curb for which FHA will undoubtedly ask.

The worst of it all was that the government's housing credit policies have never been tested by a skidding housing market. With the government now obligated for some 925,000 veterans' home loans amounting to \$2½ billion, and, altogether, for one-half the real estate mortgages in the country, it seemed high time to think about what a steep downswing might mean. One sign that private lenders see trouble ahead: most agreed last month that a stiffening in interest rates is at hand.

# MATERIAL

### RICEMENT

# Rice hulls into building blocks

In the rice-growing delta of Texas and Louisiana, rice millers have now and then recalled the birth of Celotex from sugar cane waste and wondered if some similarly bright future could not be found for rice hulls. For most millers, rice hulls are a big (20 per cent of every rice bushel) and expensive (\$10-\$20,000 a year) disposal headache. The farmers had tried using the rice-hulls for roughage feed, but even the pigs turned up their snouts.

Then one day rice-grower Leonard W. Chappell ploughed up a field where a rice stack had burned years before. He noticed

that the rice hulls had been undamaged by the fire. Why wouldn't rice hulls make a good building material?

With his 17-year-old daughter, Jean. Chappell went to work. They stirred the rice hulls into cement, and pressed their trial mixes into building blocks. Finally they got a "rice-crete" mix which could be sawed and nailed. They worked out their own tests: they left a block under a dripping tap in the barnyard for a month; they applied a blow-torch; they pounded it with a hammer. Their home-made concrete aggregate stood up fine.

Then Chappell built a utility building from the rice-hull blocks. The El Campo Rice Mills got interested and set up mechanical equipment for making a 5 x 8 x 12 in. building block from Chappell's formula. Thomas Hollis, a leading builder in Bay City and El Campo, Tex., got interested, too. Early last year, Hollis leased the machinery already set up by the mill, installed more of his own, settled with Chappell for operation rights, and set up the Rice & Cement Products Mfg. Co.

Since then, Hollis has turned out about 70,000 blocks. A half-dozen El Campo home owners, somewhat to their surprise, are living in what Hollis calls "ricement" houses. Hollis has also used the ricement blocks to build a dental clinic and several small commercial buildings.

Although the ricement blocks have not yet gone through scientific testing, Hollis and Chappell claim a major advantage in high insulating value. They say the blocks are also fireproof, termiteproof, and cheaper than comparable concrete or wood construction.

Hollis thinks "ricement" is essentially an inside building product because it is porous. He has, however, adapted it for exterior wall construction by adding stucco or a dash coat of plaster. He forsees a sizeable market for small fireproofing block, about 2 x 18 x 19 in., for use between walls, where ricement's nailability and sawability would be a big advantage.

The news of Chappell's ricement block has already spread around the world, and the initiators have dozens of inquiries from rice-growing regions, especially in Japan.

# PREFABRICATION

# LUSTRON AHEAD

# Three AFL building unions sig pact on industrialized house

The AFL—once prefab's biggest re—last month extended a helpir which may do more than anything put Lustron houses on the market

Lustron's determined Carl Str flourished a two-year contract with the three main building trades—car plumbers, electricians—covering by

Hedrich-Blessing tory product



STRANDLUND

on-site erectic all-steel, po enamel prefa (FORUM, Jur At the sam Strandlund s rumors of ar nent fold-up nouncing that capital he n

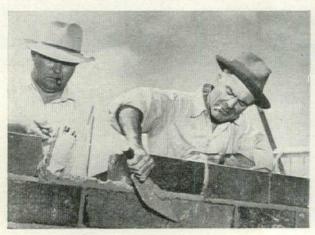
now in hand. Insiders said that the backing, plus considerable pressure the Veterans of Foreign Wars, has instrumental in clinching Strant \$15½ million RFC loan, despite unthin equity financing of only about from private funds.

The Lustron contract is not the fit tradesman have signed with the pre-Since the violent days when AFL tratore down prefab pioneer Foster Gurhouses, both the carpenters and the ers have signed shop and site cowith a number of large prefabers.

But the Lustron contract is the which the three big trades have jo one master agreement. More imporis also the first to provide officia reduction of the dozen trades custo involved in housebuilding to a basic

"No opposition from unions not in in the agreement is expected," said building trades president Dick Beamed Strandlund: "I firmly belie we have now eliminated . . . all the r for jurisdictional disputes and obstacles."

Ricement blocks being laid, builder-manufacturer Hollis with cigar (1), inventor Chappell shows how blocks can be sawed.







# -CON HOUSE

# ns improves his lightweight concrete for low cost houses

ackson Higgins, ebullient chief of Resources, Inc., has brought forth ved version of his light-weight celcrete, "Thermo-con," peeled of the which it originally was clothed as -namel."

no-namel," a low-carbon-steel panel the job with the old "Thermo-con"

big user of critical material—sidetracked in favor of on-the-job in plywood forms of the improved -con," a mix of Portland cement, and a secret foaming agent,

est "Thermo-con houses" have been ed and tested satisfactorily in New and the company is now franchisders for production by the first of r. Higgins Homes, a division of

Resources, Inc., completed the spensive of the two test, six-room at a cost of approximately \$7,600, sg. \$1,285 for a special utility less than a week. Higgins says that ained men can erect the forms in ours, and pour the walls and roof hours. An 18-hour set is required the walls, partitions, and roof are with a vapor bath, and work on doors, windows can continue.

ins estimated that the house cost sq. ft.; he believes, however, that erienced contractor, building a mul-"Thermo-con" houses without using steel, should be able to erect them out \$4 to \$6 per sq. ft.

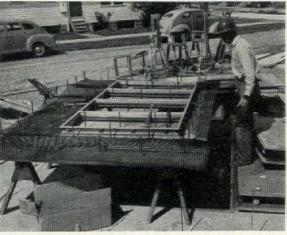
insulation qualities, durability. pility, and low maintenance costs are d for the new lightweight material. ts can be controlled by mix within ge of 25 to 60 lbs. per cu. ft.; the fficient is 45 lbs., used in 6 in. walls. all thickness is regulated by spacers made of "Thermo-con"-held in by 5/8 in, compression bolts to absorb res set up when 26-minute, 125 per cubic expansion cycle takes place. mo-con" will neither absorb nor transoisture, and tests indicate that temares within can often be controlled gitated ventilation only. wall reinforcement comprises ex-

d steel mesh 1 in. From each sur-Steel beams, reinforcing mesh, and ded steel mesh are used in the roof. ndows and door frames in the rmo-con" house are provided with a ted framing implaced in the mold. the forms are removed, the window es are ready for hanging of the sashes. material is poured from a "Thermogenerator, developed and manufacby Higgins, into the molds, which are ously treated with a plastic paint h permits easy removal after the 12 to our set. "Thermo-con" may be used ry design which conforms to standard l sizes of the forms.

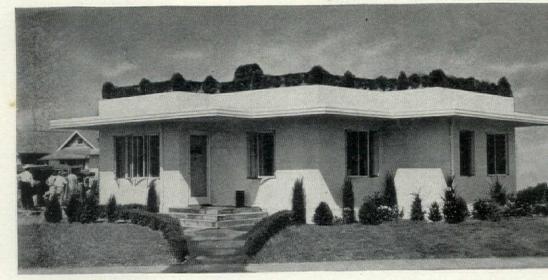
FOUR WORKMEN can erect the forms for a Thermo-con house in eight hours, and finish pouring, shown in process, five hours later.







HIGGINS' MIX, of Portland cement with water and a secret foaming agent, is poured from a special generator, also manufactured by the company. Window frames become part of the mold, to receive sashes when forms are dropped.



FIRST THERMO-CON HOUSE, complete with furnishings, and the two levels of foliage, was put up in New Orleans in a week, Monday morning to Saturday night. Fifty thousand visitors have inspected it.



BEDROOM and living room of Mr. Higgins' house. When plywood forms have been removed after pouring, Thermoseal, a plastic paint, is used in finishing.



Leon Trice Picture Service

# LOOKING FORWARD

# Kiplinger sees typical city family living in prefab by 1960

Kiplinger's magazine, The Changing Times, last month succumbed to a universal urge, asked a provocative editorial question: "What kind of place will America be in 1960?" To answer its question, Kiplinger drew on the Twentieth Century Fund study, America's Needs and Resources (see FORUM, May. '47, p. 10) and on what it describes as the "thinking of scores of businessmen, educators, sociologists and scientists."

What the Kiplinger forward-lookers think American houses will be like in 1960. and why, is worth some attention. The magazine finds a typical city dweller, factory worker family (guaranteed annual wage: \$3,196) living in a house which "could have been seen on the cover of THE ARCHITECTURAL FORUM at various times during the 1930's and 1940's... The house is a factory job... It cost \$6,000."

Material Competition. This typical family's house happens to be porcelain-enamel steel. but Kiplinger thinks it "could just as well have been plastic blocks, concrete, wood, even brick or stone, at about the same price." The reason: "In the last few years the producers and distributors of the older building materials and the old craft unions have reorganized their methods, in the face of competition from newer materials, to deliver a comparable job at a comparable price.

"For the first time in history, the price of houses is beginning to go down as production rises."

Building Bloc Splits. The Kiplinger notion of what made all this happen may be alarming to some:

"The Taft-Ellender-Wagner housing bill was finally enacted, with strong middleclass support. With some assistance in public financing...large scale developers began to rehabilitate run-down neighbor-hoods and erect big housing developments.

"Behind the scenes, the bloc of builders. labor unions and bankers which together had resisted modernization of the home building industry now begin to split. Fearing government competition, heavy industry began to cast around in earnest for means of beating the government to the draw. Banks and insurance companies had less reason to fear mass-production housing than during the 1930's and early 40's, when they had strenuously resisted 'prefabrication' as a danger to their mortgages in a depressed real estate market. The high postwar price level protected their stake in the older houses and made them willing to back the new.

Thousands Wiped Out. "With a positive push from Wall Street money and Detroit skill. factory houses really began to roll by the mid-50's . . . Thousands of small contractors were wiped out, although some grouped

together or found jobs with the big opera-

"Beginning about 1955, a swelling volume of production from the assembly lines and from new methods of erecting houses on the building site tapped the 'masmarket.'

"With the production of private housing at 1,377,000 units annually by 1960, private industry since 1947 has come within 82 per cent of providing decent shelter, by modern standards, for every man, woman and child in the United States."

# DESIGN

# PACIFIC LUXURY

# J. P. Morgan's Corsair is redesigned as commercial cruiser

J. Pierpont Morgan's famous blackhulled yacht "Corsair," behind whose gilded bowsprit the late financier cruised the waters of the world for ten years before giving her to the British Admiralty in 1910 for wartime convoy duty, has been refitted as a luxurious Pacific commercial cruiser. William Schorn Associates did the job for Pacific Cruise Lines, Ltd.

The rakish (342 ft. overall, 42 ft. beam) yacht will now ship 85 passengers, instead of the master and ten guests for whom it originally was built. The lavish rooms and suites feature a folding marine sofa-bed, designed by architect-naval architect-industrial designer Schorn while he was chief of the U. S. Maritime Commission's Joiner Design Section during the war. Another solution to stringent shipboard space limitations is a chiffo-chest which includes a dresser, a writing desk, and a dressing table (see cuts). Throughout the design, with its unique marine problems (such as proof against stowage of narcotics), emphasis was on luxury. One of the few interior finishes retained was the original teakwood stairway and corridor



ROMAN CATHOLIC CHURCH in Los Angeles has stripped off medieval symbols to rear a blue-green cubistic mass, shining with steel and chromium. Even the altar lights have tiny neon crosses. Architect Ross Montgomery thinks it an appropriate religious form for "an age of machines and advanced science." Others may disagree.



CORSAIR berths day and night



paneling in the \$2,000,000 Morgan yac. The somber teakwood, however, we bleached to a sand tone, and waxed.

# LONG JOURNEY HOME

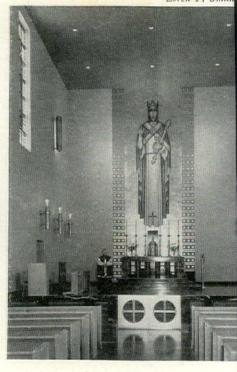
# Convair car runs out of gas

If you were born to walk the groun remain there; do not fool around!

—Hillaire Bell

When Consolidated Vultee first began think about converting from B-24's peacetime planes, it engaged top-flig Industrial Designer Henry Dreyfuss develop his airborne ideas. Among thes was a design for a flying car—the Conva car—to be made in two sections: the fir to be a lightweight automobile; the secon an airplane assembly, with wings, tail, an 190 h.p. engine. The car alone would hused on routine, everyday local trips. The

Loren F. Smith



ane assembly could be parked at the est airfield, ready to be picked up and ed to the car's roof whenever the owner ted to take an extended, cross-country

Both car and plane were to be coned from the driver's seat. The whole complete with the airplane assembly, at cost around \$6,000. It seemed the yer to many an American's prayer.

ast month, at Consolidated Vultee's Diego plant, the first of three Convair anodels took off on a short flight. It ked well, looked a little like Ganymede og carried off by the mythological eagle

A P Wirephoto



eyfuss flying car

ce cut). One week later, however, in other test flight, the *Convair* car came grief. Evidently lacking sufficient fuel return to his field, the pilot attempted an aergency landing on very rough ground, bod the plane up on its nose, and crashed either of two occupants was injured serisly. The machine itself would soon be ack in operation. Only serious, and unfair, sualty: the *Convair* car's good reputaton.

# AN-AMERICAN MEET

# Five A.I.A. delegates look at Lima

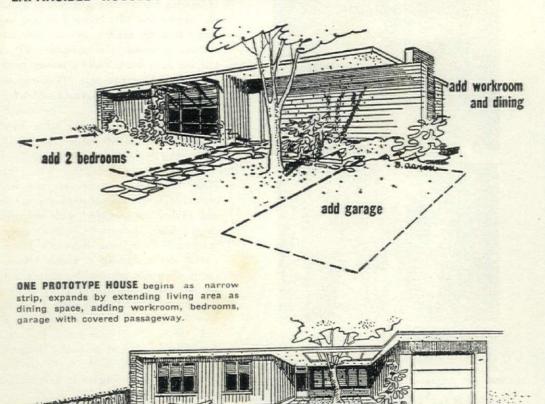
ate in October the A.I.A.'s Julian Clarence evi, chairman of its committee on interational relations, and four other U. S. elegates met with Central and South merican architects and planners in Lima, eru to cement friendships, discuss probems, exchange information, look at each ther's exhibits. The occasion was the ixth Pan-American Congress of Architects—the first such get-together since Pearl Harbor.

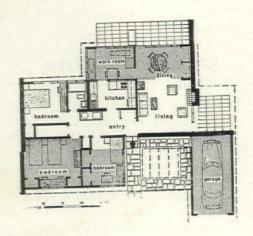
The conferees soon found themselves up of their ears in discussion of problems. To acilitate an exchange of information, the Congress was divided up into five sections, lealing with "Philosophy of Architecture," "Architectural Education," "American Architectural Education," "American Architecture and its influence on continental Architecture," "Planned communities," and "Housing," respectively. While it developed that there was probably too much material to discuss—and too little time to discuss all of it fully the American delegates found themselves greatly impressed by Latin America's building boom, and by Latin American architects' competence and vitality.

To demonstrate U. S. achievement in architecture since the Pan-American archi-

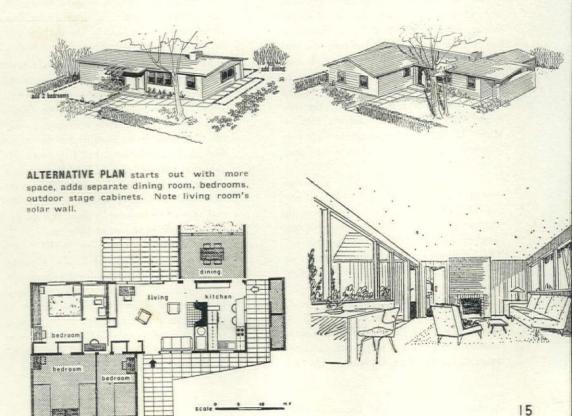
(Continued on page 16)

# EXPANSIBLE HOUSES: federal housing agency offers prototype plans.





Like many home buyers, the Housing and Home Finance Agency thinks an expansible house is a fine idea. Last month the Agency offered the public a half-dozen plans for starting small and expanding gradually (two samples shown here). Prepared by the HHFA's technical staff, the prototype plans betray a new federal inclination toward contemporary design, conspicuously not shared in the past by local FHA offices. Leading question: will FHA cooperate in accepting expansible houses for mortgage insurance? So far, FHA has thumb-downed a one-bedroom house. But the high command promised more headway for houses based on HHFA models.







PANAMERICAN DELEGATES Ralph Walker, Commander Marshall Shaffer, Julian Levi with Marion Manley, Mr. and Mrs. Crispin. A.I.A.-sponsored exhibit showed U. S. architectural progress.

tects met last, a 50 panel exhibit was prepared by the A.I.A. with the help of the professional press (see cut).

# MARKET

# POLITICS PALL

# Realtors want no Home Owners' Party, but five million more home owners

The National Association of Real Estate Boards (NAREB) last month convened in San Francisco for its 40th annual meet at what its outgoing President Morgan L. Fitch called "the most momentous time in the history of organized real estate . . ." Momentous or not, Mr. Fitch added: "This is the year in which the building industry fought its way clear of government control, in which Congress began an orderly process to end the injustice of price control on rents alone, in which a trend toward socialized housing was halted . . ." Privately, however, many a NAREB delegate admitted that the "injustice" of rent controls had been a great stimulant to the business of buying and selling homes: low-rent paying tenants did not have to double up (as they might have to if rent controls fall on March 1, 1948), and newcomers were consequently forced to buy homes or camp out in public parks.

Although few Washington observers thought Congress would fail to extend rent control, NAREB members were hopeful that the government would "return private property to the hands of private owners." NAREB, President Fitch said, wanted nothing to do with the "landlords' subsidies" proposed by some Congressmen.

Principal item on the realtors' agenda was NAREB's "Five Year Plan" to sell five million new homes, backed by a bill to be presented to Congress to provide incentive taxation for housing investors. The bill would enable any taxpayer investing money in housing for occupancy or rent to deduct his interest and part of his principal payments from his taxable income. The convention approved it in principle. Of its bill, the main thing NAREB seemed to say was that it "contains only 479 words and consists of only five paragraphs, which anybody can understand . . . The Taft-Ellender-Wagner bill, on the other hand, contains some "22,000 words, covering 112 pages, which no one can understand."

Apart from boosting the "Five Year Plan," NAREB delegates were unusually critical of Assocation policies and program, and evidently dissatisfied with executive vice-president Herbert U. Nelson's preoccupation with politics—especially his remarks about starting a Home Owners' Party. Nelson's proposal to affiliate with the National Home and Property Owners' Foundation was slapped down, and his drive for a hike in dues was defeated. To make the point still clearer, the convention then elected middle-of-the-roader Hobart C. Brady of Wichita, Kan., to be its new President. Brady believes in keeping out of politics.

The NAREB convention left the door open for a settlement by consent decree of the anti-trust action brought against it by the U. S. Dept. of Justice (FORUM, Sept., '47). But NAREB's officers said they would plead "not guilty."

# **NEW HOUSING PLATFORM**

# Needed: 20 million more houses

Delegates to the 14th annual meeting of the National Association of Housing Officials (NAHO) went to work briskly last month to determine what to do about at least two principal issues: 1) housing for middle-income groups; and 2) planning for communities of millions of new homes likely to be built on new land within the next 12 years. The answers reflected not only the gravity of U. S. housing needs, but also a clearer notion of what can be done about them in the light of the current economic and political temper of the country.

First question on NAHO's agenda was: What makes 1947 building expensive? First answer by NYC Housing Authority's John P. Riley: probably not labor. Riley took issue with the fairly widespread opinion that labor is responsible for the major part of the rise in housebuilding costs. He said that cost of labor in New York public housing projects had risen from 39 per cent in 1939/40 to only 41 per cent in 1947. Second answer (advanced by most delegates): monopolistic practices in housing.

The following afternoon NAHO combined with the National Public Housing Conference (NPHC), under the chairmanship of U. S. Housing's able, perennial harbinger of doom, Catherine Bauer, to present the most important U. S. housing report in many years: NAHO-NPHC's joint "Housing Program for Now and Later." Its general principles: We must build 20

million new homes between now are and we must reconstruct blighted. The means: S. 866 (Taft-Ellender-bill), plus a great deal more. I interesting points: To get low-incomplies out of slums, federal aid is esto reach the middle-group, there is encouragement of private enterprising; to get housing for veterant supplementary aid will be necessariant.

How to reach the middle-gro people who are too rich to live in housing's \$9 a room rental projects, poor to pay private enterprise rents -troubled NAHO-NPHC delegates rest of the day. Said Ira Robbi Charles Abrams: If private ent doesn't help these people after a reas time, public housing should. And Hovde: NPHC must support the group, or lose its support. Objected erine Bauer: Let's get at the slum-d first. Anyway, added Bauer and Bohn, private enterprise must be every possible chance to do the l job that it can do. Unanswered qu Who was to fill the no-mans-land b \$9 and \$16 rents?

Nevertheless, the delegates final cided to vote unanimously that "should provide a sufficient volume housing to insure necessary housing those not provided for by private prise." Where the dividing line wou nobody was willing to say.

# CITIES

# PEOPLE

# Their reproductive habits are no stant, sighs the census bureau

In a menacingly titled section of its cupopulation check-up, "The Demogration Significance of the Growth of Metrop Districts," the U. S. Census bureau pout "that people in modern large citinot reproduce at a rate sufficient to tain their numbers." Among cities repon the wane are New York, Chicago Philadelphia.

The Bureau's companion observa "The physical structure of such citiwith few exceptions, ideal for destruby A-bombs." This note of unserenithe city family group contrasts mark with "the reproductive habits of people," who seem to be holding their very well. Even the smaller cities, sue Salt Lake City, seem to be reproducted adequately—in the case of Salt Lake more than adequately (the Mormon index is 112 as against the average of 1

However, the rapid growth of the metropolitan districts—interrupted by depression of the 30's—seems likely to continue, the Census Bureau pred as long queues of rural people m steadily into the nervous anticipatory glof the great cities, leaving their abun reproductive habits behind them.



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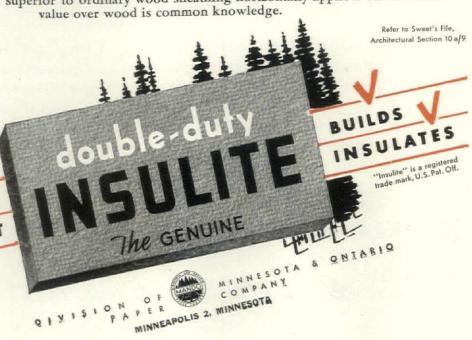
In this day of excessive construction costs, here at least is one place where you can tell a client "You get two uses for the money you spend."

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# ...Bigelow Lokweave Carpet for Heavy Duty in Furniture Department

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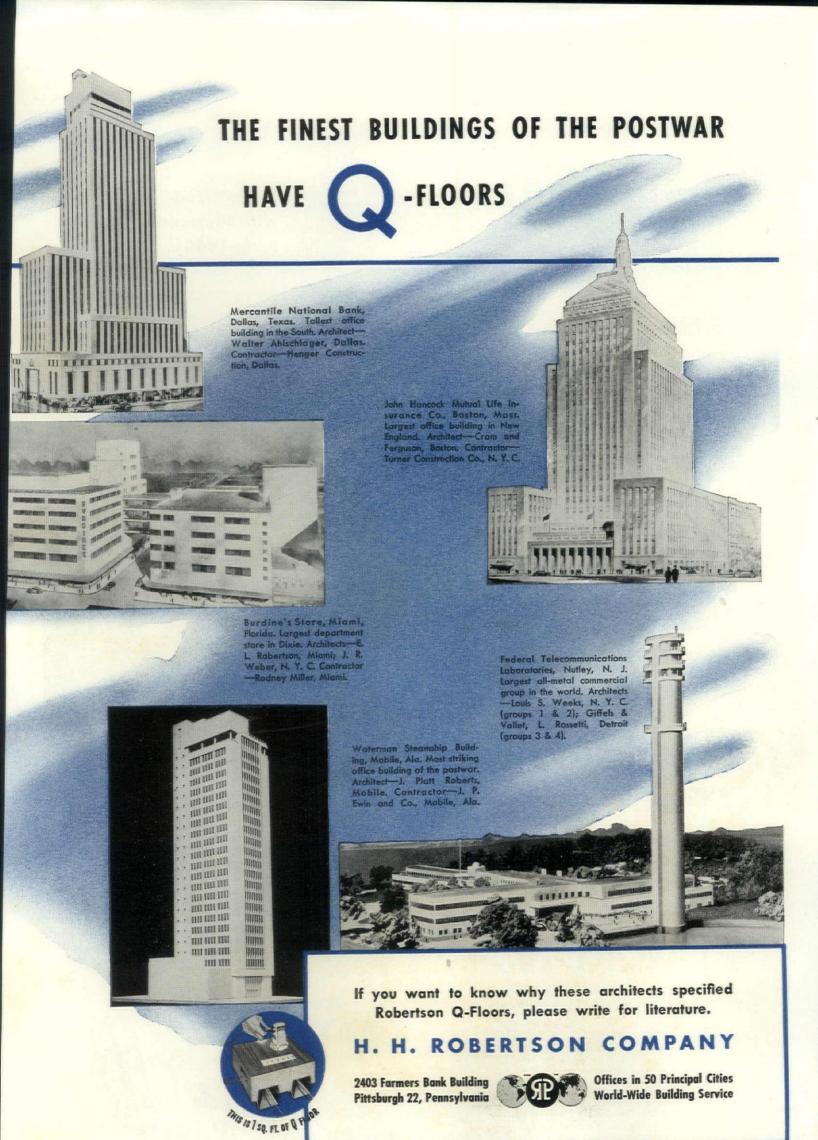
When a spot becomes soiled or damaged, the entire area can be replaced with pieces of carpet left over from the original installation. This amazing feature, plus the low cost of installation, makes Bigelow Lokweave the long-run economy carpet of all time. You will want to use it the next time you select new carpeting.

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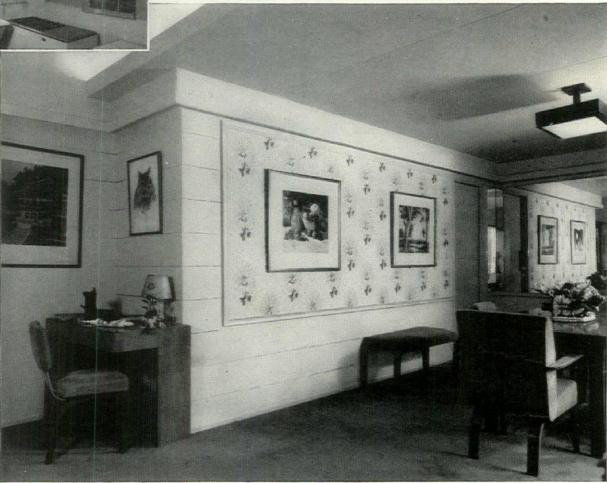




Left: Spacious laundry room, with smooth, attractive plywood walls, canvased and painted.

Below: Renovated breakfast room, with 3/8" plywood on the ceiling and on the walls—the latter with wall-paper applied over a felt backing.

Modernized with Plywood ... in 1940



# "Present Condition Excellent," - says Architect Whitney R. Smith

"... as good as the day the job was completed"

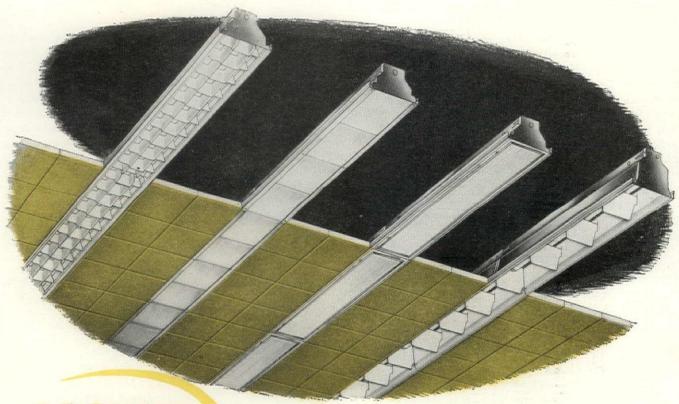
PLYWOOD'S MANY ADVANTAGES KEEP DEMANDS GREATER THAN PRESENT SUPPLY

Douglas fir plywood production is greater now than in prewar years. Today's demand, however, is unprecedented—and raw material availability is the controlling factor in obtaining higher output. This uneven demand-supply ratio naturally means that plywood may not always be readily obtainable at any given time and place. Keep in touch with your regular source of supply as to price and delivery information. For technical data, write the Douglas Fir Plywood Association, Tacoma 2, Washington.

This attractive remodeling job was completed in 1940—with Douglas fir plywood playing a major role in the work. Architect Whitney R. Smith of Pasadena, California, says: "Douglas fir plywood was specified for rigid subflooring, for ceilings, walls and many interior details. The entire building is in excellent condition

today—as good as the day the job was completed. The laundry room, in particular, is almost a perfect test for plywood. Damp laundry is hung on the lines and warm air from a forced air furnace is blown through the room. I have specified both Exterior-type and Interior-type plywood for many jobs—and it has always turned in a fine performance record."





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### ET IN MEMORIAM:

Forum:

Howard Myers dropped into my office in Chicago one day 15 years ago. There was a telephone, a drafting board, and me and my aspirations. I never knew why he came to see me—I hadn't done anything much—but I never forgot what he told me. In his subtle way he dissolved the practical problems facing me then, and after he left I felt Howard Myers had made me an architect. In the years that followed it was always Howard's opinions of my work that really counted to me—although I wouldn't dare tell him so. You couldn't even thank the guy—or get sentimental.

Today I feel lonely—because way down deep I've been working for Howard Myers these past fifteen years. I wanted all men to be like him and stand for the same things—and be my friend. Well, there just isn't another—and I guess I wouldn't believe it if there was.

If there were anyone else lost to the profession I could probably express my feelings in terms of the loss to the profession. But in Howard's case the loss is my loss—a deep hurting loss that's my special problem—even though I know I'm not alone...

WILLIAM L. PEREIRA, Architect Los Angeles, Calif.

### Forum:

... I received word of Howard's death just as I was about to speak in Spokane, Wash., and with that knowledge pounding in my head, I have never been up against a more difficult assignment. Like thousands of others everywhere, I not only respected but loved Howard Myers. No one in the architectural field, in public housing, or engaged in any of the social fields can fail to owe a deep debt to Howard.

... It was my good fortune to spend an afternoon with him just before leaving for the West and even though he had been desperately ill, I went away feeling that after all, in the great place of leadership, there was a person whose feet were planted firmly, and all of us whether engaged in private or public enterprise needed his wise counsel more than ever. While my feeling of personal loss was almost overwhelming, I believe that the average person has lost a champion who cannot be replaced.

Lee F. Johnson, Executive Vice Pres. National Public Housing Conference Washington, D. C.

# Forum:

A friend has gone. When I arrived in New York from Europe, one of my first telephone calls was for Howard Myers. The answer was, "Howard died just a short time ago."

Howard, to me, belonged to those straight spirits who saw the Arts in an honest way. He disliked snobbism. But his eyes smiled when he saw something being created without the use of force. He loved those who understood how to avoid foolishness and based their thinking on nature...

Howard Myers was always hoping and waiting for a new movement. But he, as well as the rest of us, was not patient enough. We expect such things to go fast. We forget that history goes slow. Speed is, in reality, nothing.

CARL MILLES, Sculptor Bloomfield Hills, Mich.

# Forum:

YOURS IS A WARMLY HUMAN TRIBUTE TO A MUCH LOVED PERSON, HOWARD MEYERS WAS A CITIZEN OF CIVILIZED WORLD YET TO COME.

 $\begin{array}{c} {\rm Pietro~Belluschi,~Architect}\\ {\it Portland,~Ore.} \end{array}$ 

### Forum:

... His tremendous humor, warmth, as well as his devotion to the modern architectural cause made their impact unforgettable. In the first few days that I landed in America, Howard gave me a sense of the universality of modern architecture, on that occasion when he managed to make the man from abroad, myself, feel among friends—the architects of the U.S.A. Since then, I have never hesitated to ask for his advice and was amazed at his capacity to spare apparently limitless time to all his innumerable friends in the profession.

SERGE CHERMAYEFF, President Institute of Design

Chicago, Ill.

### Forum:

Here was a man who by his every act, word and look, helped others wend their burdensome way toward truth in their labors. The tradition of Howard Myers is the American way of making progress, by intelligent open discussion, giving weight and consideration to ideas from all sources even though they be without pattern or chart. Through his brilliant, fearless handling of the rudder he brought forward the arts in which he was most interested to a point from which progress will not only be great but much speedier and greater for the fact of his existence. Howard Myers will be among my most treasured memories.

WILLIAM ZECKENDORF, President Webb & Knapp, Inc.

New York, N.Y.

### Forum:

... Howard was generous and broad and fought for some wonderful things. The Architects Advisory Committee to the Federal Public Housing Authority was an idea of his, aided and abetted by Marian Howden. We members feel a real responsibility to carry on this fight as his heritage to us.

Howard always gave young architects a chance to show their work. A great group over the world delight in this debt to him. Business men and manufacturers were persuaded by Howard that we live in a world of today and today's products, and so he has a basic share in the acceptances we now take for granted.

WILLIAM W. WURSTER, Dean Massachusetts Institute of Technology School of Architecture & Planning Cambridge, Mass.

### Forum:

... Here was a life of many aspirations fulfilled as much as it can be done below the clouds and in an earthly career. .

RICHARD J. NEUTRA, Architect Los Angeles, Calif.

### Forum:

... It is not necessary for me to tell you how much the majority of architects admired Howard. Many of us have turned to him for advice, knowing that he would understand our problems and would give us unstintingly of his time and experienced judgment.

Your own description of the evolution of The Forum and of Howard's aims constitute an excellent tribute. But to me one of his outstanding characteristics is his realization of the greatness and native quality of our own American architecture. By publishing the best work that we have produced, he has shown to prospective clients, practicing architects and students tendencies and potentialities of contemporary architecture in this country, and he has proven the fact that modern work, like all historical expressions, is to some extent international; but it must also achieve national, and even regional characteristics if it is completely to fulfill its requirements. This Howard knew well, and he expressed his conviction by featuring the best work of our best contemporary designers. For this reason The Forum has become an important professional journal both at home and abroad.

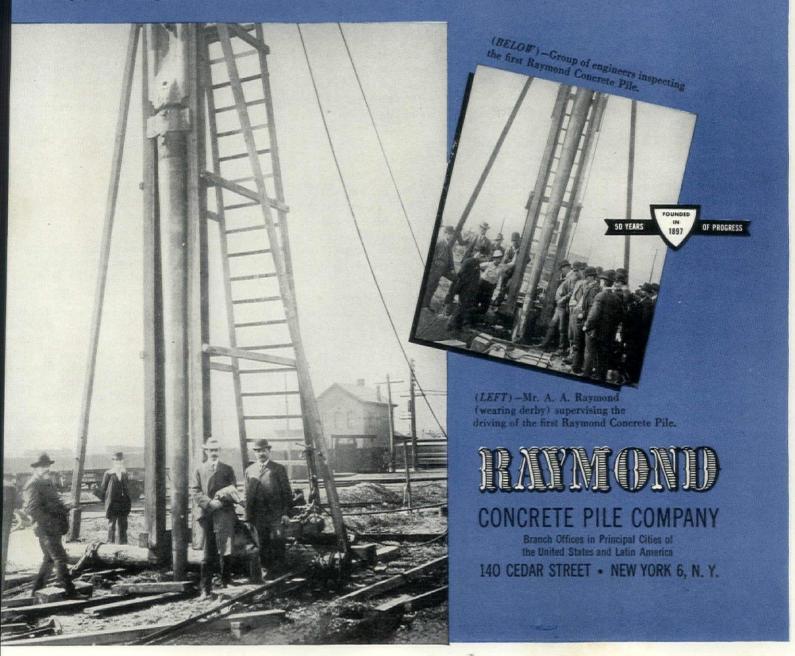
With Howard's untimely death the architectural profession has lost a highly esteemed critic and supporter; the public at large has lost a strong and vocal advocate

(Continued on page 24)



OUR SPECIALTY FOR FIFTY YEARS Mr. A. A. Raymond undertook the first Raymond "tough job" fifty years ago when he sought a sound pile foundation to supplant the relatively perishable wood piling which had been the standard for many years. The result of his persistent efforts was the Raymond Concrete Pile which now numbers in excess of two and one half million piles driven. This was the beginning of a long record of greatly diversified "tough jobs" successfully completed by the Raymond organization totaling more than 12,000 contracts.

SCOPE OF RAYMOND'S ACTIVITIES—includes every recognized type of pile foundation—concrete, composite, precast, steel, pipe and wood. Also caissons, underpinning, construction involving shore protection, shipbuilding facilities, harbor and river improvements and borings for soil investigation.



# LETTERS



This is no weather report ... simply a reference to fact. Alaska weather is one of daily extremes. In January the thermometer will range from 56°F. above to 34°F. below . . . and in July it may vary from a high of 92°F. to a low of 34°F, below zero.

Exposed building materials must resist the injurious effects of such erratic weather, so Anchorage, Alaska, for the first time is going to have SEAPORCEL Architectural Porcelain Enamel. The convincing reason is that it will withstand the rigors of 58 inches of snow...or sudden chilling rains, concurrent with 92°F. above zero. Very few other finishes, if any, can surmount these rapid changes in temperature.

The architect's rendering depicted here illustrates a building 150 ft. long by 30 ft. high. The entire exterior facing and raised letters are SEAPORCEL Porcelain Enamel in semi-matte white and rich red finish. Lighting is provided by neon tubing ingeniously silhouetting the letters against the facia panels.



Owners: Northern Commercial Company, Anchorage, Alaska Architects: Bain, Overturf, Turner & Associates, Seattle, Wash. Gen. Contractor: C. W. Hufeisen, Anchorage, Alaska

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for better building; and many of us who knew and admired him have lost a true friend.

LEOPOLD ARNAUD, Dean Columbia University School of Architecture

New York, N. Y.

### Forum

last line, "he saw it big." In my 30 years in America, it has been my privilege to be associated with some of the great professional and industrial leaders of our time. They also "saw it big." However, this was often accompanied by a certain ruthlessness or at best by a feeling of definite harshness. Not Howard Myers. He "saw it big" too, and "he saw it kind."

RAYMOND LOEWY, Designer

New York, N. Y.

A CHARLES OF THE PARTY OF THE P

### Forum:

... Those of us who knew Howard can fully appreciate how he put his "heart" into his work. It was a privilege to have known him, and his life and work can well be an inspiration to all of us who have the opportunity to continue to build on the foundation he laid.

The world is surely a better place for his having lived in it!

LEON SHIMKIN, Publisher Simon & Schuster, Inc.

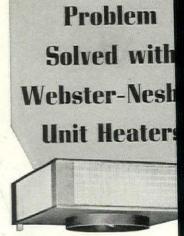
New York, N. Y.

### Forum:

I don't remember exactly when it started. Perhaps 15 years ago or so . . Howard was doing well a most important job, a job which implied some danger to him. For Howard was the first to publish modern buildings in an American architectural magazine. He was writing, encouraging others to write about what architecture is, about what buildings should do for people. Because he had the courage and the imagination to do this, the "old guard" was attacking him. Some were threatening to cancel subscriptions, other to withdraw advertisements, in short to try and ruin his magazine. But Howard knew that what he was trying to do was right, and that the magazine would grow. And it did growwonderfully.

... We served together on the Architects Advisory Committee to the FPHA. He was made chairman. What an able and likable architects' ambassador he was! He took such a natural pleasure in good things, well planned, well designed. One day I found him in his office, gay and excited. Some photographs had just arrived from California, showing the work of an unknown young architect. His joy was good to watch

(Continued on page 26)



Webster-Nesbitt Little Giant Down-Blow Unit Heater

In 1944, Schutte & Koertin manufacturing engineers for power and process indusought a means to eliminate comings in the steam h system of their Cornwells H Pa., plant.

High ceilings with skylights long narrow manufacturing be large windows on both side caused difficulties, discomfo the men and lost time due to

After study, a decision was reto install Webster-Nesbitt Giant Down-Blow Unit H above the crane runway: approximately 40 feet above ground. Care was taken to mine the proper size, spacing discharge velocity of these

After more than two heatin sons of operation, here are t sults according to Winfield plant superintendent.

The heated air leaves the unit ers at high velocity, diminish the working level so that t spreads out to provide comf the working zone. The uniplaced so that the effective circles overlap each other.

If you are experiencing difficult heating your plant, perhal engineered application of We Nesbitt Unit Heaters and rewebster Steam or Hot Webster Steam or Hot Webster Equipment may provisolution.

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# **LETTERS**



and to share. Another time, in his apartment, with obvious fatherly pride he showed me some school drawings by his daughter. He made a wonderfully understanding and encouraging, yet critical, audience. . . .

WILLIAM LESCAZE, Architect New York, N. Y.

### Forum:

ANY TRIBUTE MUST CONTAIN AN OBLIGA-TION TO MAINTAIN AN ATTITUDE THAT WE ARE SURE WOULD BE HOWARD'S WERE HE BEGINNING AT THE POINT WHERE HIS WORK HAS ENDED.

IT MUST BE REMEMBERED THAT HOWARD MYERS HAS WON HIS BATTLE. HE HAS LEFT A PUBLISHING WORLD WHERE BY HIS EFFORTS, MODERN ARCHITECTURE, IS THE RULE NOT THE EXCEPTION.

WERE HE STARTING AGAIN I FEEL THAT HE WOULD NOT ACCEPT THIS ACCOMPLISHMENT AS A STATUS QUO. AND IF IT WERE PRESENTED TO HIM I BELIEVE HE WOULD BE OBLIGED TO MOVE AGAINST IT.

WHAT ACTION IT WOULD BE WE DO NOT KNOW—POSSIBLY THE CLOSEST INSPECTION AND SELECTION WITHIN MODERN ARCHITECTURE TODAY, BUT CERTAINLY IT WOULD INCLUDE THE SETTING OF KEENER STANDARDS OF PHYSICAL, ESTHETIC, AND SOCIAL INTEGRITY.

Venice, Calif.

CHARLES EAMES

# Forum:

... I have lost not only a friend but a guiding spirit.

Francis X. Gina, Architect New York, N. Y.

# Forum:

constitution of the order of the order of some wonderful and telling memorial—something a little more tangible than that which we all carry in our hearts for Howard. Actually, the magazine and its forceful continuation is the only real memorial Howard would have wanted. He was a great force in all our lives, and also the life of America. And I am sure that you will all see to it that the magazine continues as a powerful influence. Please do call on me at any time for anything I can do to help you and your confreres....

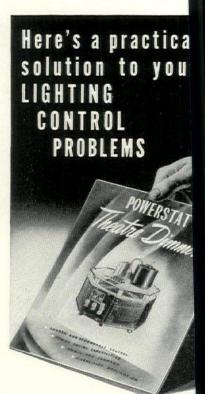
San Francisco, Calif.

DOROTHY LIEBES

### Forum

... I am flying East (I was here in California when news of Howard's death reached me) and I dread coming into New York knowing that Howard will not be there. An hour with him was always a friendly oasis in a business day.

Aside from all personal feelings, I think (Continued on page 30)





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Three dimmers operate from individual l or master control. All components house attractive black wrinkle-finish cabinet.

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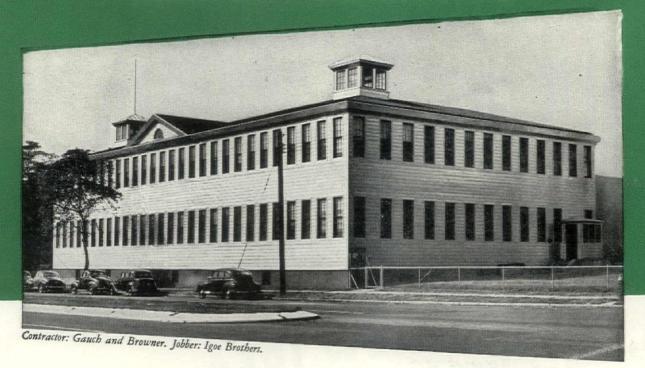


Write for illustrated folder or consult Lighting Department on specific problems.



Offices: Peoria 2, III. . Factories: Peoria 2, III. and Peru, III.

# Industry, too, recognizes Better Value in REYNOLDS <u>lifetime</u> ALUMINUM CLAPBOARD SIDING



I LLUSTRATED above, is Factory No. 1 of the American Gas Furnace Company, Elizabeth, N. J. It originally had wood siding, badly deteriorated through the years. Now, with Reynolds Lifetime Aluminum Clapboard Siding, it is bright and clean, has important extra protection against fire, and is definitely cooler in hot weather. Furthermore, it will have all these advantages permanently.

It is notable that other industrial and commercial orders for Reynolds Lifetime Aluminum Clapboard Siding keep coming in from the Elizabeth area, directly following the above installation. In addition, the American Gas Furnace Company is roofing another of its plants with Reynolds Lifetime Aluminum "Snap-Seal" Roofing. As is always true with a superior product, one sale makes another and another.

Dealers who promote one installation of this siding will find they have started an endless chain of profits. Builders and architects who specify it will enhance their reputation for being up to date and value-conscious. See Sweet's or write for detailed A. I. A. file brochure.

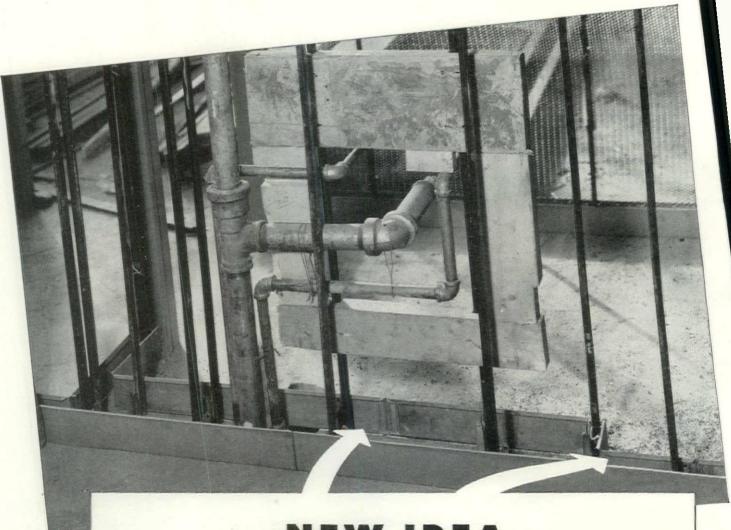
Reynolds Metals Company, Building Products Division, Louisville 1, Ky.

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REYNOLDS <u>Lifetime</u> ALUMINUM BUILDING PRODUCTS



# NEW IDEA IN WALL CONSTRUCTION saves money...saves space

YOU'LL save money and space for your clients when you combine two great wall systems...the Gold Bond Hollow Wall and the Gold Bond 2 inch Solid Partition.

Partition.

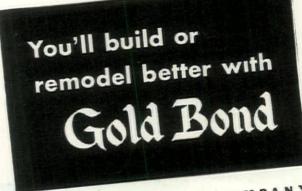
1. The GOLD BOND TWO-INCH SOLID PARTITION with flush type metal base saves up to 7% of the
living or working space wasted by old-type thick walls.
And with no loss of sound reduction or crack resistAnd with metal lath and gypsum plaster partition also
ance, this metal lath and gypsum plaster partition also
ance, the metal lath and faster construction. Now, what
means less weight and faster construction and ducts?

2. That's where the GOLD BOND HOLLOW WALL SYSTEM comes in. This system employs the use of two separate units which may be spaced any distance apart to meet specifications for pipes, etc., with no ties or bridging. The illustration above shows the Two-Inch Solid Partition used in combination with the Hollow Wall system to meet all job conditions. the Hollow Wall system to meet all job conditions. (Wood nailing supports for the fixtures are wired to the channels.)

the channels.)

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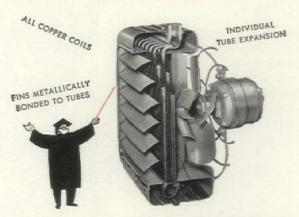


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Modine HEATERS

# **LETTERS**



you will agree that architects, until recently, have not been too receptive to the industrial designer-and yet years ago Howard, with a completely open mind, had "taken us in;" and don't think we did not appreciate his understanding.

HENRY DREYFUSS, Industrial Designer New York, N. Y.

### Forum .

. . . I think Howard would like your tribute. It is as simple, offhand and effective as he himself always was. I find that only a great gap fills my mind when I try to say anything about him. All words seem thin and tired and his presence still has so much reality that I cannot speak as though he no longer existed.

ALVIN LUSTIC, Designer Beverly Hills, Calif.

... No man could write his epitaph. We feel this way, because, after spending a wonderful evening with him a month ago, we went away knowing we had met a man unique in his field . . . Immediately he made us, from far off Texas, feel perfectly at home and at ease. We deem it a cherished pleasure to have known him.

MACKIE & KAMRATH, Architects Houston, Tex.

### LETTER FROM CZECHOSLOVAKIA

Forum:

Czechoslovakia, in the heart of Central Europe, was the first country to be swallowed by Hitler in 1939, and, due to the tragic circumstances of the war, the last country to be liberated from the German yoke by the American and Russian armies. Thus it is the country which suffered, if not worst, at least longest under the German occupation. War damage was worst in the Eastern provinces Slovakia and Moravia, Bohemia remaining almost untouched.

The "Third Republic," as the present regime, which was created in 1945, is called, has taken upon itself a tremendous economic burden, which presses heavily upon the Czech economy, and thus upon building also. About 70% of the industry of the country has been nationalized, i.e. taken over by the Government. Heavy industry, banks, insurance companies and all larger enterprises are now called "Narodni Podnik," which means "peoples' enterprise".

From this country, where once lived Czechs, Slovaks, Germans, Hungarians, Poles and Jews, the Government removed all minorities. One of the gravest postwar problems of Czechoslovakia is how to replenish the vacuum created in this way.

(Continued on page 34)



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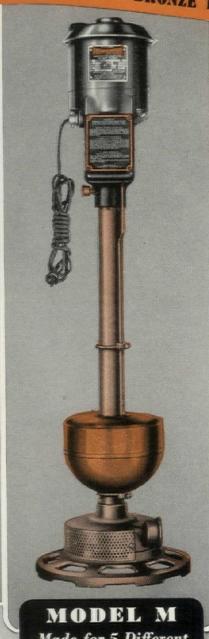
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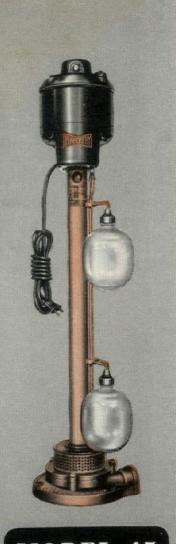
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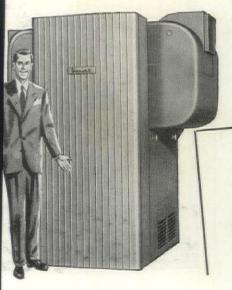


Patients, doctors and nurses in the Highland Park Medical Building, 5450 Preston Road, Dallas, Texas, all enjoy Servel-supplied cool, clean, invigorating air in summer and clean, draft-free warmth in winter.

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# LETTERS

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154 Ogden Avenue, Jersey City 7, N.J. Plants: Jersey City, N.J. Dover, N.J. A special Rehabilitation Department has the difficult task of refilling the empty border territories (Sudetenland, etc.) as well as trying to settle the imported workers from Italy and Bulgaria . . . Without the qualified workers whose craft has been handed down from generation to generation, the revival of industry is hardly to be considered.

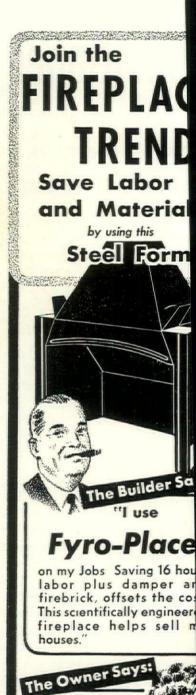
On January 1st, 1947, a two-year plan was solemnly inaugurated, to be followed later by a five-year plan. All planning in Czechoslovakia must be coordinated with this two-year plan of the Gottwald Government, which not only provides for the repair of war damage and the restoration of buildings to their original condition, but takes it upon itself to make fundamental improvements in buildings, districts and even whole communities. Preparations for reconstruction are on a broad scale. A general raising of the building standards is considered. More than 220,000 houses destroyed or damaged must be restored. In order to satisfy the most urgent demand for housing it will be necessary, according to the program, to build or restore 125,000 apartments. As in all war damaged countries it is very difficult to achieve the necessary speed of reconstruction.

Utmost economy is the first demand. It is a necessity which is called 'Socialist Realism'. The 'Socialist Realism' in Czechoslovakia is a sober economic point of view without a Moscow coloring. The slogan has a different meaning in every. country. For instance, in Russia it serves as cover for any cheap and shoddy trash. In general it would be a good thing if Czech and Russian architects would cooperate, but so far they have not and there is still too great a cultural difference between

No matter how idealistically the twovear plan may have been conceived, those industries which are compelled to provide living quarters for their workers have to adhere to very tight minimum standards for this housing-much tighter than the minimum standards for living space set up by "BAPS." the central architectural com-

In Czechoslovakia all architectural associations are combined in a central organization which is called "block of progressive societies," initials BAPS, and which has far reaching influence. No competition can be held without the permission of "BAPS." "BAPS" does not permit changes to be made in a building, even after years, by any architect other than the original designer. "BAPS" fights successfully for the position of the architect in the new planned economy and it fights against trash and shoddy

(Continued on page 38)



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a modern warm air circulating fireplace instead of a smoky, drafty, old-fashione one - at no greater cost

Write for full information and FREE copy 100 100 fireplace PREPLACES signs. A storehou of ideas on firepla styles and materia

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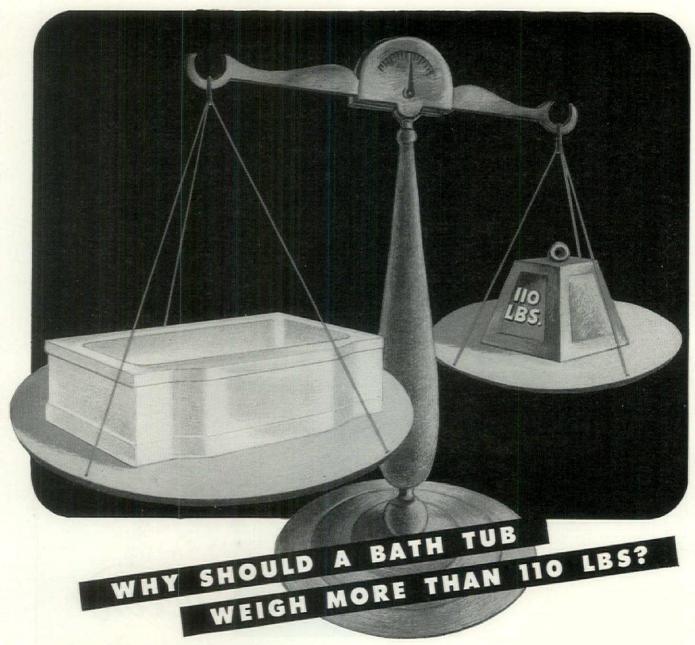


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Velon is a welcome revelation to anyone who has to handle screening. It works like cloth, cuts quickly with an ordinary scissors, can be installed easily at great saving in time and temper. When working with Velon there's no hazard of jagged edges . . . anyone can handle it with ease. These are only two of Velon's many advantages - yet it costs less than good metal screening. Available in all standard widths. Write now for full information on Velon screening to Firestone, Akron, O.





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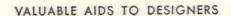
In the kitchens, for instance, where the sale must be made, Westinghouse offers tested design... plans that have demonstrated appeal... that you can install at surprisingly low cost.

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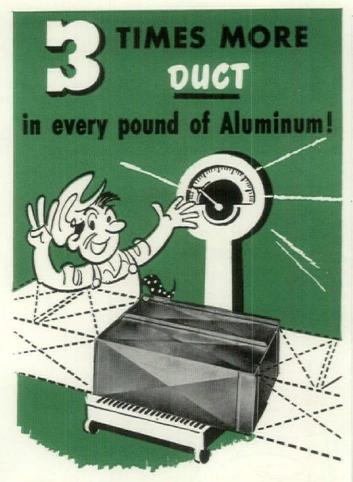


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#### IFTTERS

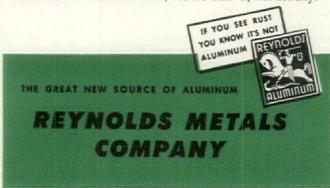


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design. In questions of urbanism and regional planning "BAPS" has a decisive influence. Owing to these special circumstances the sharp division between traditional and modern architects, which exists in the West, is unknown in Czechoslovakia.

The fight between opinions is not exhausted in sterile discussions about styles and meaningless estheticisms, but is being fought about vital things such as the form of society in general, the nationalization of the building industry. The power of the central architectural committee has increased so much because there is no private building market and there are no private clients. The employers of the Czech architect are the State, industry and public organizations. This means that all the architects are civil servants or are employed by industry in their building offices. This is the reason why opponents to the modern movement seem to have died out.

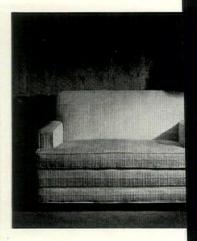
Some readers may ask what happened to the individual building client. The answer briefly is, that no one is any longer allowed to dispose freely of a personal bank account. Therefore no more houses can be built for wealthy clients as they were before the war on the Barrandov hill near Prague. But it is also impossible to project bank palaces in early Renaissance style or barracks with Gothic towers.

The most interesting building projects are without doubt those in connection with the nationalization of the steel and textile industries. The Ministry of Social Welfare and Planning has a decisive say in the matter. For instance, small textile mills, which are scattered about all over the country are to be moved to the poorer regions and the larger ones combined into more economic units. The lack of a young generation of workers forces the administration of the nationalized industries to request of its architects generous plans for apprentice homes, schools and nurseries.

Other large projects are concerned with the new universities in Olomouc and Pilsen, the new Parliament building in the center of Prague and the regional planning schemes spread all over the countryside. The country is full of life, the architects are full of principles, the magazines full of proposals-which however come nearer to propaganda than to reality.

The first great architectural event in postwar Czechoslovakia was a competition for workers' housing arranged by the Czech Steel Works at Most in northern Bohemia. The program calls for living quarters to be coordinated into an extended strip settlement for about 30,000 inhabitants. The chief interest is concentrated in the 11-story apartment building for collective living. It

(Continued on page 42)



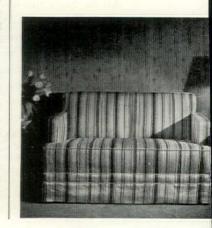
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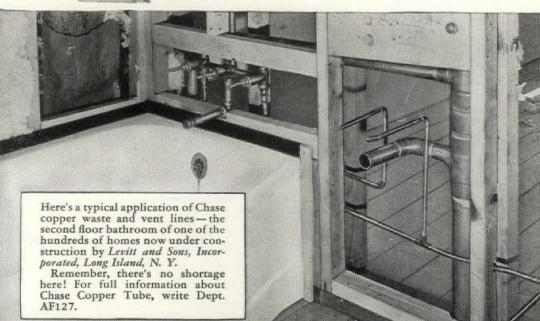
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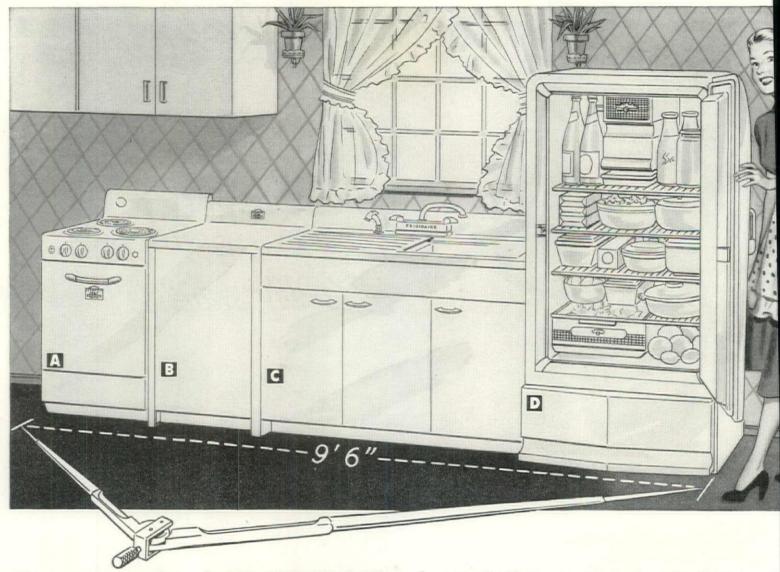


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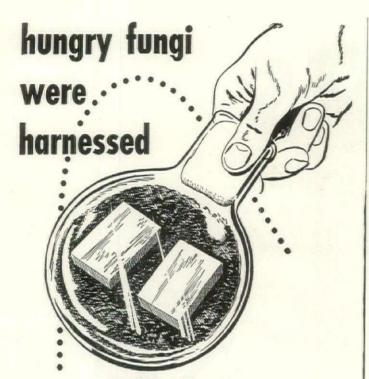
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is to be completed in 1947. The program includes a twin block for 800 inhabitants.

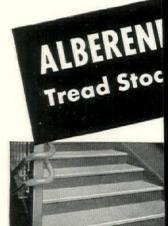
What does collective living mean? It means living with a community. Living collectively is the compression of living units -i.e., apartments and dormitories, into a large block which is administered like a hotel from a central office and in which both men and women are freed of the housework by a carefully considered service system. The women especially gain because a rationally working help service takes care of all those time-consuming daily tasks which are indispensable to living. In a limited measure such service is already familiar to us in the electricity supply, water supply and district heating. In principle the tenant is offered all the comfort of a household with two servants. Cleaning, dusting, window cleaning, shopping and food preparation are all taken care of by the service. In addition extra living space is available in the way of rooms that may be rented for family gatherings, private dinners, club meetings, sports and hobbies. As answer to the question whether the individual culture of living does not suffer, it is asserted that rented rooms are only used temporarily, that living in a hotel is no different, and that people who decide to live in a collective house have a certain amount of collective spirit, which makes it easier for them to sacrifice individuality for a simplified life.

If common living under one roof becomes something more than being thrown together by chance as in a hotel and if there is a common philosophical ideal to act as a unifying factor, a new sociological concept arises. This concept is used by the Czech magazine "Architektura" whenever the question of the collective house-in Czech "Koldum"-is discussed.

No matter how carefully the architects have thought out the "Koldum," the workers look at it with suspicion. Their ideal continues to be the detached small house with a garden and rabbits, all surrounded by the highest possible hedge. "Your wish is our command" says the works administration, and makes only careful advances with the collective houses. The new ways of life are not being determined at green or red tables. This model form of living cannot even now be ordered by decree, but can be made popular only slowly by a few well-thought-out examples. The proportion of people who favor the "Koldum" in comparison with traditional living is estimated at about one in ten. It is believed that such basic changes in the so far private lives of the working population of Most can be made only in careful doses.

The same restraint in the propaganda for (Continued on page 46)

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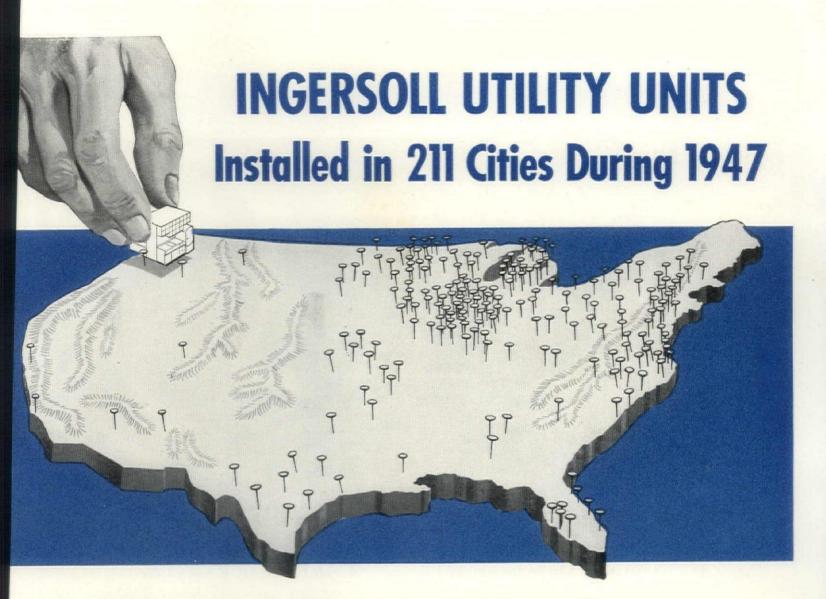


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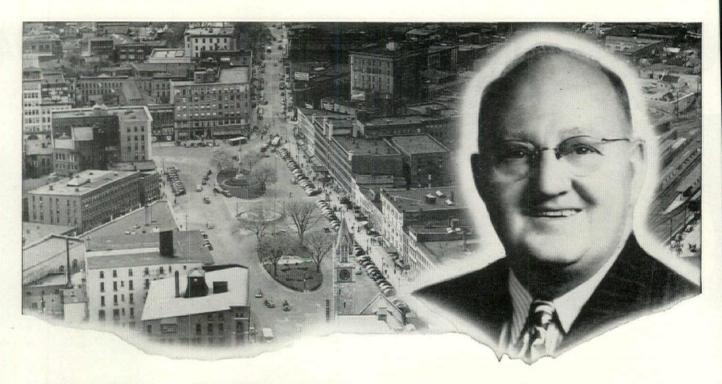
Complete, it eliminates time-consuming specifications-everything comes with one purchase, from one source, right when it's needed. It cuts building time from three to four weeks and can be installed before, during or after construction of building framework.



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And thereby hangs a tale.

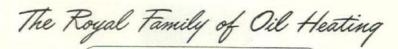
Burkhard took the Timken franchise in 1936—did a steadily increasing business in the next few years—sold 41 Timkens in 1941, last full year of prewar production.

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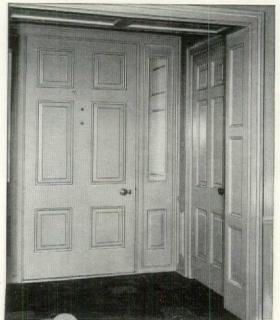


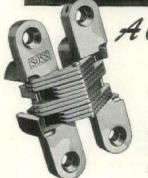
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#### LETTERS

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modern living can be found in the housing schemes of the other nationalized industries. The textile industry, which is passing through a stage of complete regeneration, is planning garden cities the largest of which is to house 3,000 workers—according to the population key this means about 12,000 inhabitants. They are satisfied with housing 50-60% in multi-story "Koldums."

A complete socialization of building including the ownership of land has not taken place despite reports to the contrary. Nationalization of land and real estate has only taken place where large land owners have been convicted of crimes against the nation. A reorganization of landed property, as for instance suggested in the Uthwatt report in England, cannot be considered. Furthermore the suggestions of the Uthwatt report, which have been of such great service to modern urbanism, are unknown in Czechoslovakia.

On the question of single versus multistory building the magazine "Architektura" writes: "We are of the opinion, and shall defend our point of view in future, that families with children should not live above the second floor." This principle is adhered to elsewhere. How could it happen that the "Koldum" was planned with eleven storys? In collective living on the Czech plan children are taken care of in a nursery which is in the middle of the same building. The "Koldum" project for the Steel Works put this nursery, which is divided off according to age groups, in the center of the twin block. The apartments of the parents are in the immediate vicinity. The child is taken away from the parents' apartment for teaching, eating, sleeping and studying -not too far away: that was one of the conditions made by the administration of the Steel Works. This principle is defended by reference to the English boarding school system. Large athletic fields and facilities complete the collective house.

In considering the pros and cons of collective living it must be stated that living standards show a steady development and that a standard once achieved has never been sacrificed except under duress. Living has always made use of all progress and inventions, despite the events of time. There is very little doubt on which side collective living stands in the age-old conflict between progress and conservatism.

K. K. Perlsé, Architect Prague, Czechoslovakia

#### RATE-OF-RISE

Of late I have noted a tendency toward greater recognition of devices pertaining to fire protection, which is indeed gratifying as in years gone by it seems there has been

(Continued on page 50)



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walks—wood that has der strated its durability on s jobs will give you lasting nomical construction. "Wolr ized\*" Treated Lumber is kind. Examinations of oc front installations employ millions of feet of this long-l lumber for superstructure some of it put there two years ago—prove this.

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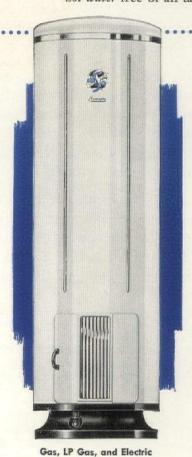




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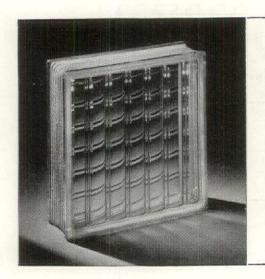
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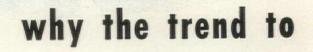
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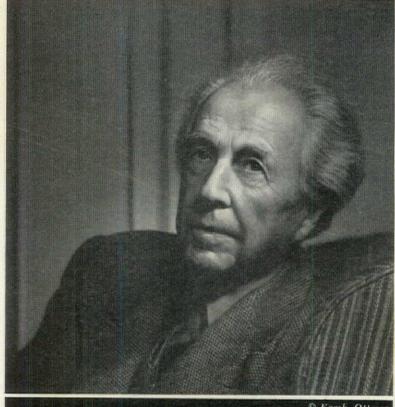
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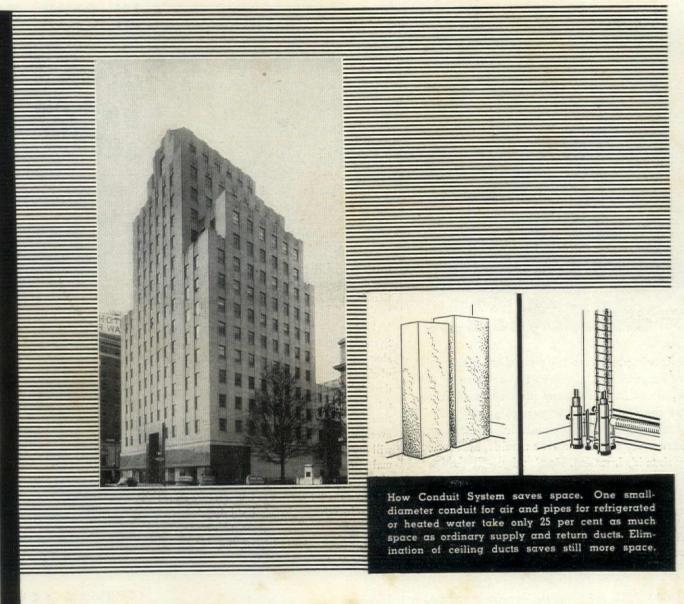
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Frank Lloyd Wright

A limited number of single copies of the January Frank Lloyd Wright issue will be available for two dollars



#### It's always fair weather for all tenants

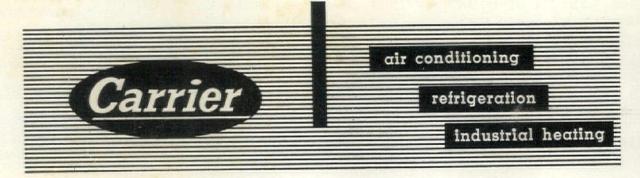
A particular office may get cool morning shade, hot afternoon sun. But tenants in the Durham Life Insurance Building, Raleigh, N. C., can be comfortable all day long every day in the year. Carrier's remarkable Conduit Weathermaster System of air conditioning permits any office to have the kind of "weather" the occupants like.

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#### LETTERS



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\*Registered Trade-mar

a general laxity towards publicity for fire prevention. As you undoubtedly are aware, our country is experiencing a tremendous fire loss, and fire prevention should therefore be constantly before the public.

I wish to take this opportunity to commend you on your fine article in the July, 1947 FORUM, in which you outline the experiments that have been conducted by the Otis Elevator, Westinghouse, and Grinnell Companies on the protection of floor openings. In the September issue further reference has been made to this form of protection and it also shows illustrations of the escalator installation in the Kresge Department Store of Newark, N. J.

However, in this article you speak of the actuation of the motor driven shutters by thermostats and I wish to make a correction in this respect. We were instrumental in making that part of this installation and it is our ATMO Automatic Fire Alarm System that actuates the motor driven shutter. This takes place through a rateof-rise system wherein operation is produced through a rate-of-rise of temperature, rather than a fixed temperature basis, which thermostats would normally indicate to the average reader. Our system when installed will operate when there is continued abnormal rise in temperature of approximately 3° per minute. The system compensates for any gradual change in temperature and is thereby safeguarded against false alarms.

> CHARLES M. BLAESI, Mgr. J. H. Scharff, Inc.

Orange, N. J.

Forum:

Since we bought our house over 25 years ago (the owner took a year to build it and it is just a 3-story tapestry brick, 6-bedroom house, costing \$30,000) I have wanted a house similar to the type that Stanwood Phillips (Fifth Avenue) builds—only in not such a grandiose manner. Why can't we, in this climate where we have rainfall, have roofs (that look like roofs) and have houses that look like houses.

My father came from England where his country house (I never liked the Georgian town house) gives me a nostalgia for roofs and rock gardens and gates. Why are so many American houses so severe in line? Why isn't it possible to have streamlined kitchens and baths and yet have a house that looks as if it melts into the land-scape?

AUGUSTA PARKER WOOSTER
Atlantic City, N. J.

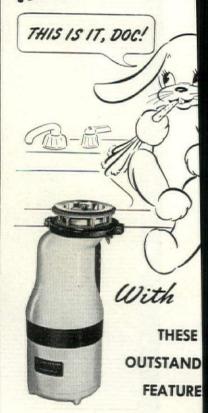
Maybe we Americans just don't like that fenced-in feeling, but we have some roofs and gardens this issue (see HOUSES pp. 93-104)

—Ep.

IN-SINK-ERAT

AUTOMATIC GARBAGE DIS

#### ALWAYS ONE JUMP AHEAD!



• REVERSIBLE ACTING RO SHREDDER



- TWO DIRECTIONAL SHREDDI ELEMENTS
- · GLEAMING WHITE FINI
- STREAMLINED, COMPACT DESIGN

Add to all these a distribution set-up that ple the man who makes the installation — the plur — and yeu've got a garbage grinder you own with pride, specify with confidence

Specializing Exclusively in the Manufacture of Automatic Garbage Disposers Since 1938

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#### "THE BEST SEAT IN THE HOUSE"

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Division of AMERICAN RADIATOR & Standard Sanitary corporation

Public recognition is the greatest sales advantage a product can have. CHURCH Seats possess it to a degree equalled by few products on the market today. Because CHURCH Seats are known by name everywhere, it becomes only a question of which CHURCH Seat. The public recognizes but one standard of seat quality—CHURCH.

SPECIFY CHURCH SEATS BY NAME

#### UNITED STATES RUBBER COMPANY

SERVING THROUGH SCIENCE



# The PLANNING BOARD



The Truscon Planning Board Says: "Normal delivery on many of our Steel Building Products is now possible. In fact, on all material for which raw

material is readily available, a normal rate of production and delivery is currently in effect." However, since production and delivery schedules change from week to week, we suggest you contact the nearest Truscon Sales office for the latest information.

the window, while projecting inward ventilators do not extend outside the window. Projecting outward ventilators are used where it is necessary to have free aisle space along the window wall, where shading is important, or where pipes, conduits, racks, etc. pass across the ventilator. Projecting inward ventilators are used when the building is close to the property line and when economical screening is required. Both types of ventilators permit cleaning of the outside of the glass from within. Ventilators are balanced on supporting arms and are held in any desired open position, by forged brass sliding friction shoes.

Free Light and Air
... With Modern
Architectural Beauty

Architectural Green Cleveland, O.

The National Advisory Committee for Aeronautics is engaged in development work that is aimed at keeping and increasing America's leadership in air flight. At the Flight Propulsion Research Laboratory, Cleveland, Ohio, a supersonic tunnel is the scene of much development work that will influence aeronautics.

The office building for this project is liberally equipped with Truscon Intermediate Projected Steel Windows, to permit the generous use of nature's free light and fresh air.

Where neat design and economy are the keynote of construction, architects and builders will appreciate the quality, appearance, performance and low cost of these windows. The projected feature is especially valuable when ventilation depends upon the natural clearing off of vapor, smoke and stale air. The tilted ventilator acts as a deflector of the elements and can be kept open in all kinds of weather. Drafts are eliminated and a continuous change of air is obtained.

In the Truscon projecting type window, the ventilator, when open, does not extend beyond one face of the window plane. Projecting outward ventilators do not extend inside

Write for complete information on Truscon Intermediate Projected Steel Windows.

#### Improved Wall Construction

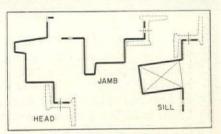
Truscon Metal Lath products are recognized by authorities for their strong construction features and fire-resistive qualities, especially for schools, hospitals, theaters, hotels and other buildings in congested areas. Truscon has a wide range of types of metal lath, corner beads, stucco mesh, corner reinforcements, hollow partition studs, base screeds, cold rolled channels and other products related to the plastering trades. All Truscon Metal Lath products are manufactured in accord-

Truscon Doublemesh
\*Herringbone Metal Lath
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ance with U. S. Department of Commerce Simplified Practice Recommendation R-344. Write for catalog showing the complete line, or refer to SWEET'S.

#### Truscon Formed Steel Surrounds

Truscon now offers formed STEEL SUR-ROUNDS for use with Residential Casements. Made of 18 gauge electro-galvanized steel, bonderized and shop painted with a high quality baked-on primer, surrounds are now available for use where a wider and moulded frame appearance is desired. The members are formed to pleasing contours lending depth and character to the appearance of the window openings and at the same time facilitating installation and anchorage.



Of particular interest to builders in concrete block or similar standard masonry units, are the resultant modular dimensional opening widths when steel surrounds are used with the popular two, three and four light wide casements. The opening dimensions of 3'-4", 4'-81/8" and 6'-03/8" work in closely with standard 16" modular masonry units, thus permitting the masonry walls to be laid up around window openings with full-blocks and half-blocks at minimum cost.

Truscon formed steel surrounds are designed for shipment knocked-down, permitting assembly and attachment in warehouse or at job site. The corners are accurately coped to present neat joints and the surround members are conveniently secured to the casement by self tapping screws.

The surround jamb members are made in the four standard Residence Casement heights. Head and sill members are provided for single unit openings in the four standard casement widths and, in addition, in widths permitting combinations of units up to a total of six lights wide. It is expected that the popular picture window openings of 1-3-1 or 1-4-1 unit combinations will prove particularly pleasing to architects, builders and owners. Write for catalog.

#### Truscon Curb Bars

Truscon Curb Bars are widely used to dress up and protect the projecting corners of concrete areas such as loading platforms, steps, curbs, sills, etc.

They add greatly to the life of concrete in such service, where heavy blows and extreme traffic are common. Write for literature.

#### New Literature

A new 36 page catalog on Truscon's complete line of steel doors is now available. Includes illustrations, installation details and specifications. Write for your copy today.



#### TRUSCON STEEL COMPANY

YOUNGSTOWN 1, OHIO

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## Now... A Complete New Line of NATIONAL Commercial STEEL BOILERS

Designed and engineered for the largest heating jobs where extra heating capacity and economical operation are prime considerations. National Commercial Steel Boilers are available in 16 sizes with SBI net ratings ranging from 2,500 to 35,000 square feet of steam radiation—these standardized sizes complying with Standard Practice Recommendation R157-37 of the United

States Department of Commerce.

National Steel Boilers have been designed with particular attention to the needs of Automatic operation with stoker, oil and gas firing. Hence, this new National Steel Boiler embodies all the latest features desirable in an Automatically fired boiler. Too, hand fired boilers can be readily converted, after installation, to Automatic firing.

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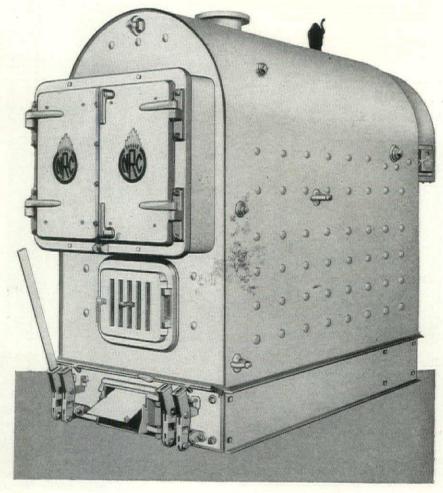
LONG, TROUBLE-FREE SERVICE from durable flange quality steel construction and Electrunite tubes. Design and construction meet or exceed the requirements of the Steel Boiler Institute Rating Code, and the American Society of Mechanical Engineers Boiler Construction Code. Each boiler is inspected and approved by a representative of The Hartford Steam Boiler Inspection and Insurance Company. Generous firebox proportions conform with the recommendations of the Stoker Manufacturers' Association.

FUEL ECONOMY from self-cleaning True-Arch Crown Sheet which prevents heat-insulating sludge from accumulating over hottest part of the firebox crown, maintaining maximum efficiency of heat transfer. Exterior surface of boiler shell finished with aluminum paint for heat conservation.

PLENTY OF HOT WATER—A wide selection of Indirect Hot Water Heaters available for year round supply of domestic hot water. Storage or tankless types for single and multiple heater installation. High grade brass and copper construction assures corrosion resistance, long dependable service.

**UNUSUAL ACCESSIBILITY**—Tight-fitting doors of generous size provide ease of firing, inspecting, cleaning. Detachable bottom plate on smoke hood gives access to rear end of tubes without disconnecting the breeching or removing the hood.

convenient grates built in four sections two front and two rear (except in smallest size, one front and one rear). Greater ease in shaking and dumping the fire or removing the rockingtype grate bars. In mild weather, when rear sections can be left covered with ashes, a slow fire on front sections provides just enough heat to remove chill and provide domestic hot water.





For complete information, call your nearest NRC heating sales branch or write to The National Radiator Company, 221 Central Avenue, Johnstown, Pennsylvania.

The NATIONAL RADIATOR Company

miller lighting systems simplify installation and modernize interiors ...ceilings unlimited

Stores, offices, schools, factories, and public buildings, can now get good easy-seeing light, plus modern interiors . . . unlimited patterns of light . . . with MILLER FLUORESCENT TROFFER LIGHTING SYSTEMS. The Miller Furring Hanger (patented) makes this possible. Permits ceilings to be suspended from the lighting system, and the arranging of Troffers in blocks, strips, or geometric patterns, to form any ceiling pattern desired . . . CEILINGS UNLIMITED.

Installation is simplified. Needed supports from structural ceiling reduced 50 to 75%. Reduction in wiring costs up to 50%.

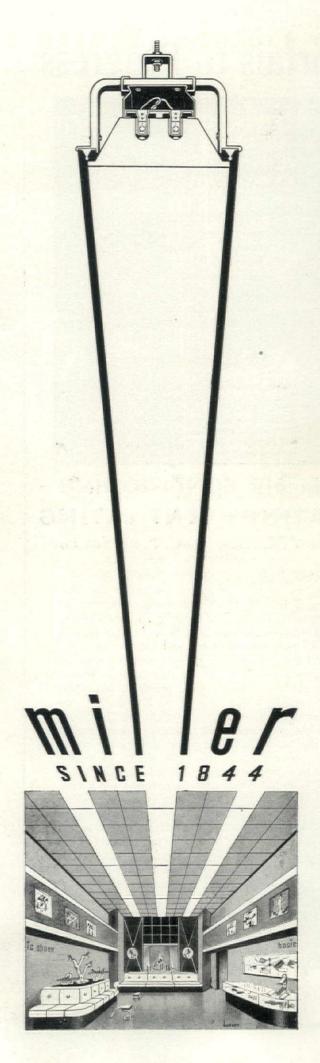
MILLER Lighting Service is all-inclusive.

MILLER 50 and 100 FOOT CANDLERS (Continuous Wireway Fluorescent Lighting Systems) have been established as standard for general factory lighting. And MILLER Incandescent and Mercury Vapor reflector equipment has broad factory and commercial application.

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Behind the scenes with FORUM contribu















HENRY HEBBELN, who makes his FORUM debut with a re Connecticut farmhouse (p. 93), is one of the crop of architects who have opened their own offices since the professional record reads like a Who's Who of moder tecture, for among his former boss's are Alvar Aalto, Dailey, Antonin Raymond, William Lescaze. Graduat Cornell in 1937, Hebbeln also studied regional plan Cranbrook Academy of Art, housing in Sweden, Denm Finland.

Philadelphia's super-colossal city planning exhibition (pp has involved, during the past two years, the talents of h of Quaker City citizens. Near the head of this multitud OSCAR STONOROV, designer of the project and one of important spark-plugs since he and colleagues Robert I and Walter Phillips dreamed up the idea in 1944. S who studied in Florence and Zurich and worked in Pari Andre Lurçat, has won his American reputation in the of public housing and planning.

EDMUND N. BACON, co-designer of the exhibition, thormany of his ideas via correspondence with Stonoromore actively engaged in the invasions of Iwo Jima and O. Now Senior Land Planner for the Philadelphia City P. Commission, Bacon started his career with a Cornell of and study under Eliel Saarinen at Cranbrook Academy Prewar jobs include architecture in Shanghai, China; visor of City Planning in Flint, Mich.; Managing Directive Philadelphia Housing Association.

ROBERT MITCHELL, Executive Director of Philadelphia Planning Commission, acted as liaison man between that zation and the designers, supplying the vast amounts of roon which the exhibition was based. One of the origins men of the exhibit, Mitchell has been an active planne student days at the University of Illinois, when he work the late Henry Wright's Town Plan for Radburn, N. J. I he served as chief of the Urban Section, National Res Planning Board.

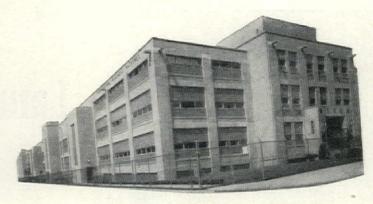
WALTER M. PHILLIPS, is Chairman of the Citizens' Cowhich, with the Chamber of Commerce, sponsored the cexhibition. A graduate of Princeton and the Harvard School, Phillips got his start in 1938 with a Philadelphi charter movement which promptly failed. The group of trated young crusaders then turned to city planning, may hot political issue, emerged in 1943 as the present influcitizens Council. They are largely responsible for the lishment of a permanent city planning commission.

EDWARD HOPKINSON, JR., honorary Chairman of the Planning Commission who served as coordinator of the etion, has been termed the most important man in Philade outside of politics. As a partner in Drexel & Co., Vice dent of the Investment Bankers Association of Ameri member of one of Philadelphia's oldest families and a name friend of every influential business and government in the city, Hopkinson insured both financial and legis support for the planning project.

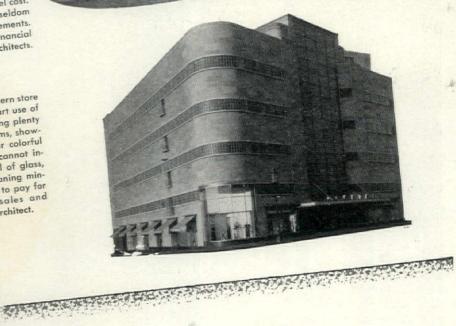
ARTHUR C. KAUFMANN, Vice President and Director of Gi Brothers Inc. and Executive Head of the Philadelphia donated the 50,000 sq. ft. of space on Gimbel's fifth and floors where the spectacular exhibit was staged. Kaufma not the first member of his family to take a flyer in marchitecture. Cousin and fellow-merchandiser Edgar J. I mann, President of Kaufmann's Department Store in burgh, is the famous owner of Frank Lloyd Wright's fathouse, Fallingwater. The panels of PC Glass Blocks in this big modern plant admit plenty of clear day-light into extensive shops, work rooms and offices. By directing good working light to remote desks, machines and benches, in all sorts of buildings, PC Glass Blocks prevent waste of valuable floor space and reduce artificial lighting costs-economies your clients will find important.

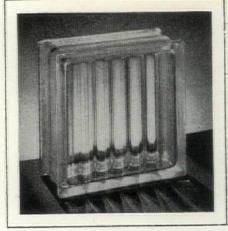
The use of PC Glass Blocks in school buildings means lighter, brighter classrooms, where students can see clearly and do better work. Corridors and stairs can be better lighted, for greater safety. The insulating value of the glass block panels prevents excessive heat losses, increasing the comfort of stu-dents and instructors, reducing fuel cost. Easily cleaned, PC Glass Blocks seldom if ever need repairs or replacements. All these features ease the financial load. Overend and Boucher, Architects.

The architect gave this fine modern store more "buy appeal" by his smart use of PC Glass Blocks. They also bring plenty of clear daylight into salesrooms, show ing off goods on sale at their colorful best. Harmful dust and grit cannot infiltrate through the solid wall of glass, so damage is prevented, cleaning min-imized. PC Glass Blocks help to pay for themselves in increased sales and profits. Stiles O. Clement, Architect.









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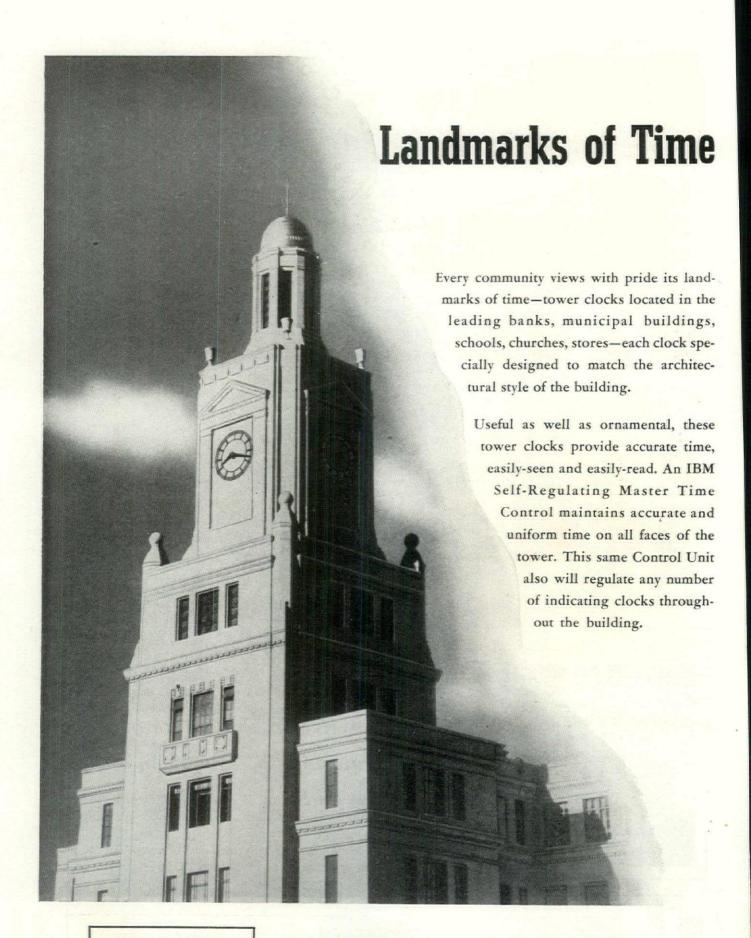
FOR ADDITIONAL INFORMATION SEE OUR INSERTS IN SWEET'S CATALOGS

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# AGreat New Escalator

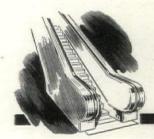
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wide enough for adult and child—or traveler and luggage. The new Escalator carries 5000 people an hour comfortably. It is designed for any vertical rise up to 23 feet.

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A LIFETIME OF BEAUTY. The modern Escalator's graceful lines and gleaming aluminum balustrade combine to give buildings the New Lookin level-to-level travel.

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HERE NOW—the first Escalator designed especially for the medium-sized and smaller building. The result of many years' research, this new Escalator has all the time-tested features of earlier models, plus a wealth of post-war design features . . . it is truly the last word in Escalator design.

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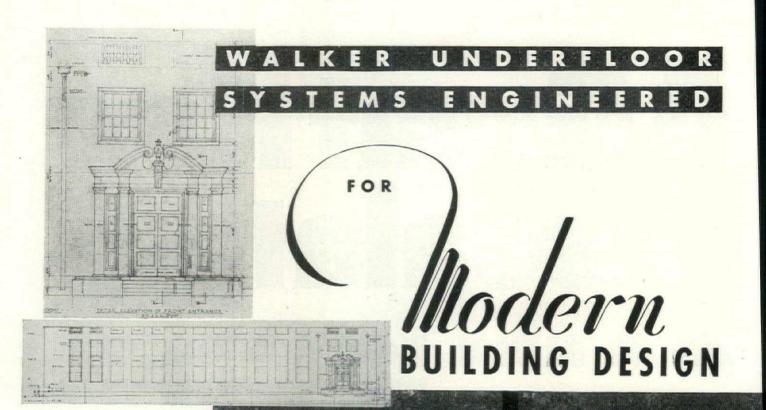
**NEW FREE BULLETIN B-700A** tells the whole story. Write for your copy to Otis Elevator Company, 260 Eleventh Avenue, New York 1, N. Y.

"Escalator" is a U. S. Patent Office registered trademark of the Otis Elevator Company. Only Otis makes Escalators.



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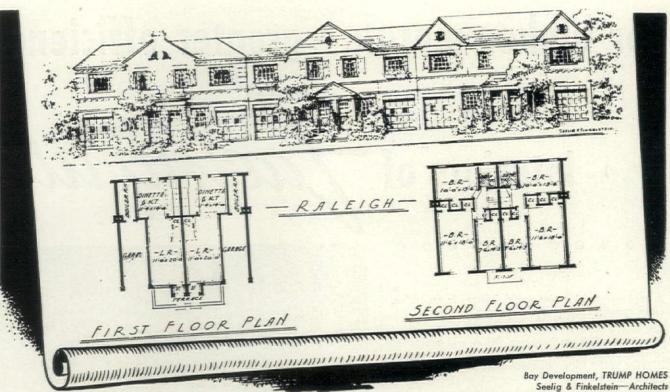
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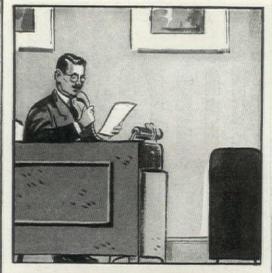
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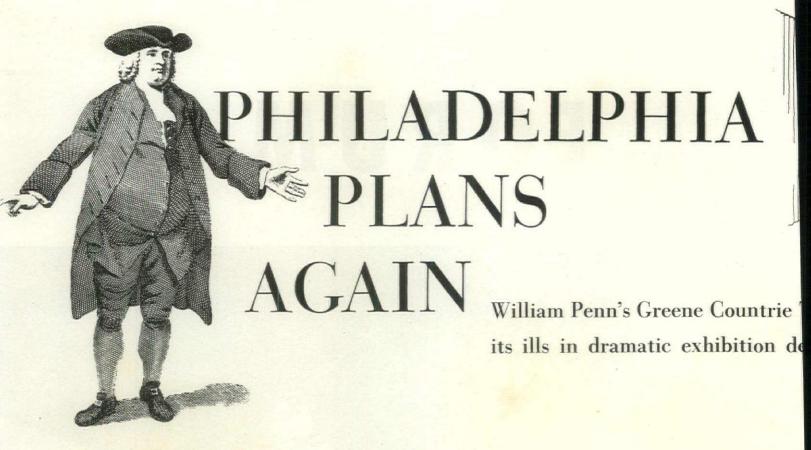
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America's First Service Magazine

## The Architectural FORUM Magazine of Building



Ezra Stoller, photos

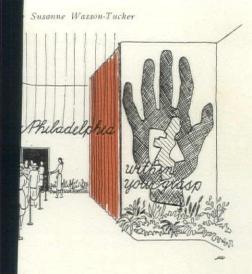


Last September and October, more than 385,000 Philadelphians came to see one of the largest and most spectacular displays ever designed to sell city planning to the citizenry. Costing \$340,000 and occupying an advantageous spot on Gimbel's fifth and sixth floors, the exhibition boasted three-dimensional models, a huge aerial photo map, movies, a diorama, murals, wall panels, cartoons, a reproduction of an actual street corner and mechanical gadgets-every device known to the display artist-to sock home what is wrong with Philadelphia and what, specifically, can be done about it. In contrast to the extravagant character of the exhibition, however, the improvements it suggested were realistic ones. The value of dramatic displays was in bringing abstract concepts down to human scale, showing the layman, simply and forcefully, what city planning could mean to him.

The exhibition, designed by architect Oscar Stonorov and planner Edmund Bacon, was the climax of but five years of actual planning work, for unlike most large cities, Philadelphia did not even have a paid plan commission prior to 1942. Famous as one of America's early planned communities laid out by William Penn in 1786, Philadelphia grew haphazardly out of its original small boundaries, pushed by expanding commerce, controlled by machine politics and upheld in righteousness by memories of Benjamin Franklin and the Continental Congress. Not until the past decade, when industry started moving away and the phrase "City of Beautiful Homes" began to ring hollowly in Philadelphia's dingy streets, did a complacent citizenry start to worry. The city's present planning enthusiasm stems from the year 1940 when a few civic-minded young men formed "The City Policy Committee," an organization which has since snowballed into one of the most vigorous planning movements in the country. Keynote of their meetings was the feeling-"since we have to live in the darn place all our lives, we might as well do something about it." Heading this vanguard was a brash bluestocking named Walter M. Phillips, fresh out of Harvard Law School and aching for reform. After the failure of an ill-fated

city charter movement, Phillips rounded up the fru young progressives who had backed it and gave something new to think about: city planning for delphia. First necessity here was an expert grasp problems involved in running a big city-thus av the charge of useless muck-raking before it co made. Fifty of them-doctors, lawyers, architects ing experts and social workers-met at luncheon two weeks to talk government structure, sewage dis segregation, neighborhood planning. A comorganization, "The Lawyers' Council on Civic Af was also set up in this eventful year to do a s job in more conservative quarters. Rememi the fate in an unfriendly council of earlier attem establish a planning commission, the two und groups (now united as "The Joint Committee on ning"), laid their strategy carefully. They had mitted to the City Council an ordinance calling permanent planning commission. Unlike New powerful one-man operation, it was to be an adv group, working through the Mayor and Councilmen. they felt to be, not only a preferable scheme, but one acceptable to wary legislators than a super-govern capable of dictating its demands. Nevertheless, it w figurehead organization. It asked for a nine-man l of experts, a top caliber technical staff under civi vice, and an adequate budget. Council President Ga introduced it "By request," which said to the kno-"Don't take it seriously, boys."

The knock-down battle which ensued is, in retros blessed by the young liberals, for it necessitated gas widespread support for the planning program. The Committee went after nearly every organization in telephone book, from the T-Square Club to the Gr 52nd and Market Streets Business Men's Associa They corralled architects, engineers, and lawyers, howives, the Chamber of Commerce, clergymen. Edwhopkinson, Jr., one of the most powerful business lea in Philadelphia, had already seen the light. He pair important call on Mayor Samuel. Under attack from

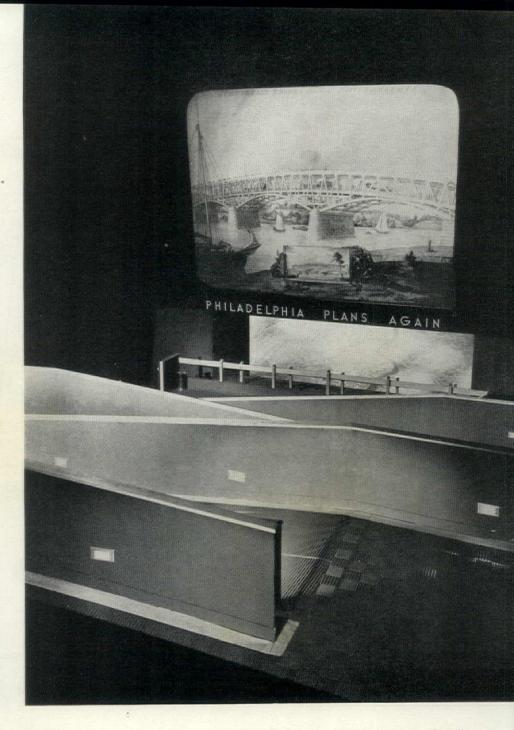


## gray, machine age city, diagnoses ure citizen support for planning

b and the bottom, City Hall crumpled. After two cked public hearings, called "stampede" by a hard-drealtor, the ordinance was unanimously approved. Samuel obediently appointed a first-rate common with an initial budget of \$40,000 [now \$200,000 lly] and a technical staff headed by expert Robert tchell, formerly of the NLRB. Many planners bethat the commission is the best in the country

their victory, the Planning Commission has ind successive six year plans which are referred to ty Council every September and are distinguished e down-to-earth character of their suggestions. They also worked out a more ambitous long-range prowhich takes Philadelphia up to 1982.

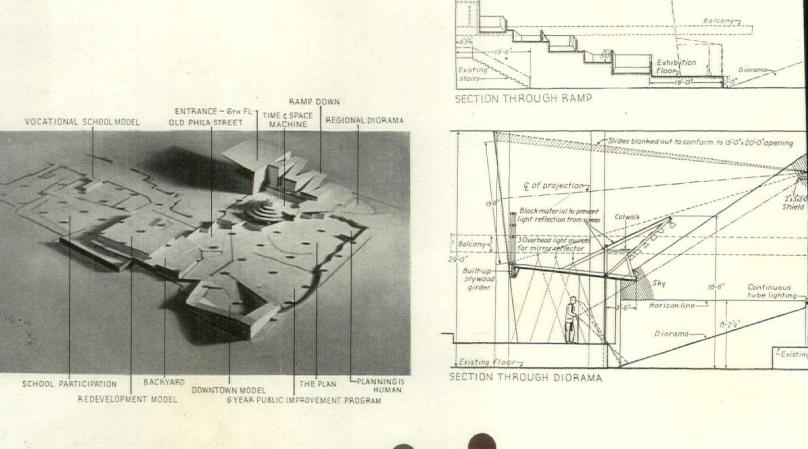
st important work of the past year and a half has, urse, been the huge exhibition designed to explain programs to the great mass of Philadelphia citi-Jointly sponsored by the Chamber of Commerce he Citizens Council on Planning (latest name for the Joint Committee" which by now boasts 114 member lizations), the exhibit has been in the idea stage 1944. At that time Stonorov, Phillips and Mitchell ght forth this grandiose scheme for educating the c, but not until the end of the war could it get fully r way. In 1945, Hopkinson, who pulled so much ht in establishing the Planning Commission, again d to. He extracted contributions of thousands of ars from Philadelphia businessmen and insured poliand financial backing from the city. Publicity, unedented in scope and given free, included 2 million cards, posters, window displays and billboards, over columns of news stories, 20 full pages of advertis-63 major radio broadcasts and 228 spot announcets. The public could hardly help itself. It came, ed and, according to questionnaires collected at the bit, was impressed. Whether or not the impression be lasting remains to be proven. But at the very t, thousands of citizens are no longer in the dark as what city planning means and means for them.

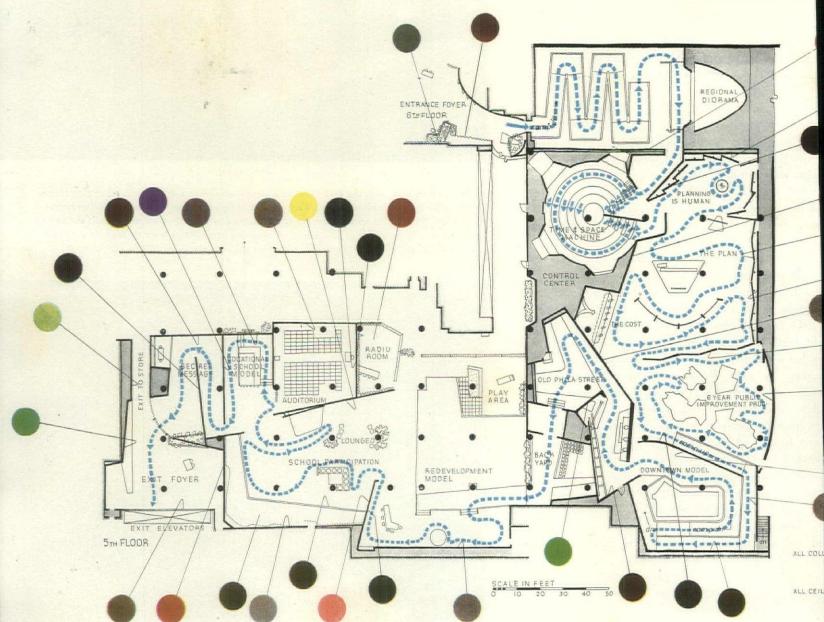


RAMPS which lead from the lobby entrance were designed as a bottleneck, regulating traffic flow into the main exhibition rooms. First display at foot of ramps contrasts projected engravings of old Philadelphia with a diorama of the future city in 1982—as it will look if the ambitious planning program is put into effect. A recorded commentary used throughout to supplement visual material, begins here with an introduction to the goals of city planning.



#### Adroit layout and handsome settings employ sound and motion in almost every known display techniq





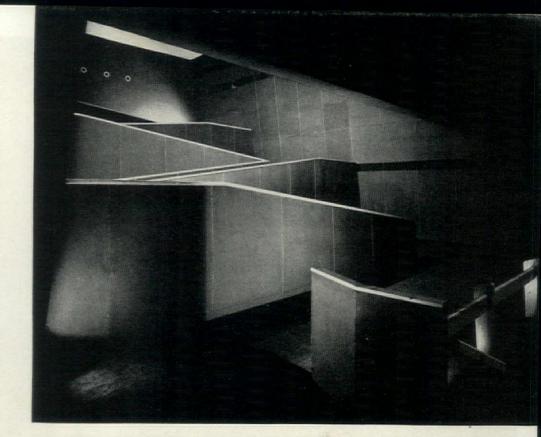
ance to the exhibition, with ramps leading inly illuminated area, is strikingly reminiscent Futurama at the World's Fair. Visitors are by the voice of a narrator which recurs throughshow to emphasize the message of visual ex-This entire introductory section, including diorama and the theatrical "Time-Space Mais kept in semi-darkness with individual disamatically lighted from behind. Visitors then into a large open section with bright, over-all tion. This alternating play of darkness and light droitly throughout the exhibit to help separate and avoid montony. Wall surfaces have been a variety of gay colors, another simple techor heightening mood and defining separation. unds have been kept simple in order to focus n on the graphic material and, on the whole, the ture is stylish and expertly done.

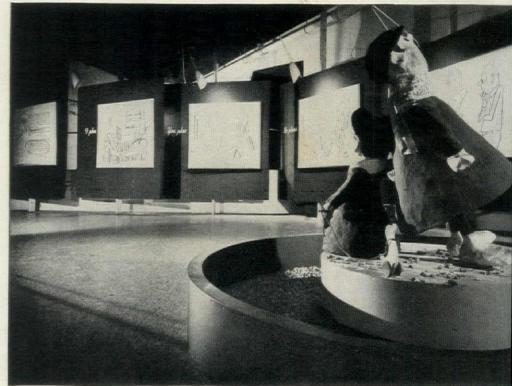
reatment of light and color of necessity played ortant part in the organization of such a comb. Equally important was the changing of floor it strategic points. An existing two-story audiat the corner of the building was utilized as a tween the sixth floor entrance and fifth floor exn rooms. The ramps were placed here, descendplatform which allows visitors to look down on rama below. This raised floor section then feeds e Time-Space Machine, an exhibit designed as concentric circles to provide easy vision of s along the wall. Finally, spectators reach the fifth floor level which extends for the major the exhibit. Ramps are again introduced at the own redevelopment study to allow a birdseye f the giant scale model. Only other raised area row house mock-up.

ompromise between forced and free circulation en used to facilitate viewing of different types of ys. Visitors must follow a general route, but these limits are allowed considerable latitude towsing. In the Time-Space Machine, however, tors are admitted in groups of 85 to 100, pausing sively at four lighted stages for a recorded extion of the displays. At the downtown model, is stand on surrounding ramps until the demonstration is finished.

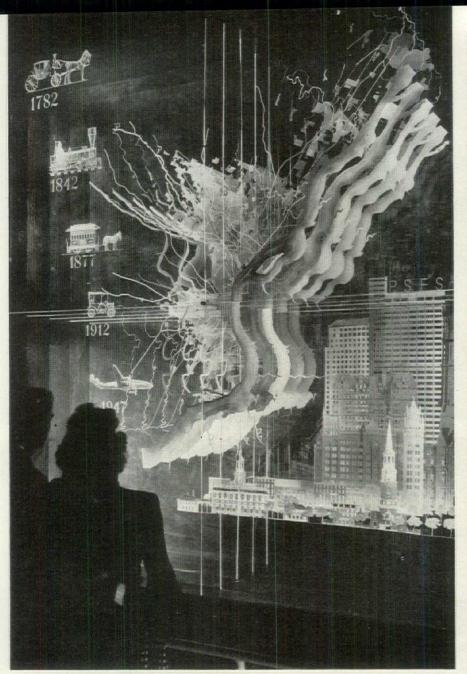
ause the idea behind the exhibit is to take city ing out of the abstract category, numerous human st techniques have been employed. Cartoons by t Osborne, nationally known artist, remind visibat city planning is just a large-scale application everyday process—like ordering groceries or g furniture. The full-size replica of a typical row, showing what can be done by private citizens prove their own backyards, also provided a human. Favorite of the entire show, however, was the I exhibit, a display of neighborhood replanning y children.

pical of the lush scale of the undertaking is the and television room from which 60 newscasts 15 telecasts were directed at Philadelphians durne exhibit's run. Most thoughtful provision was a room reserved as a supervised play space for children.

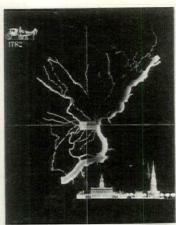


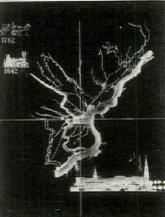


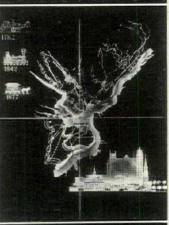


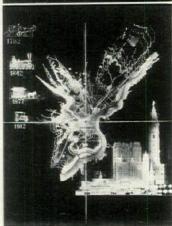


SUPERIMPOSED, edge-lighted plexiglas planes, illuminated one after the other, show growth of Philadelphia from 1782 to 1947. Changing methods of transportation which have basically influenced the city's pattern are illustrated together with important buildings of their era. Final map (above) reveals speed-up of decentralization caused by the airplane, plus present congested mid-town skyline with Girard Trust and Philadelphia Savings Bank towering over earlier buildings.









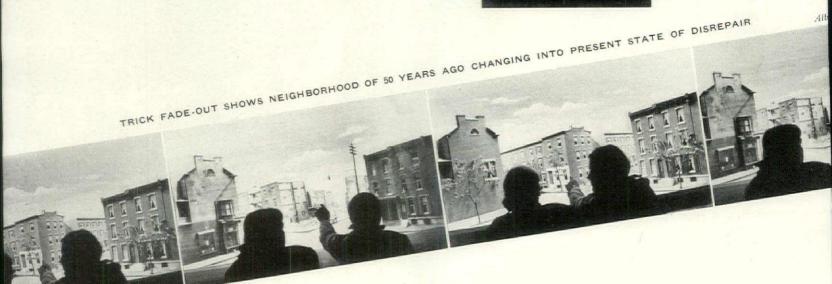
1782 Horse and carriage Phila Penn planned it, a small, no filled area between the Dela Schuylkill rivers. Independe and Christ Church are city lar

#### Growth and decay

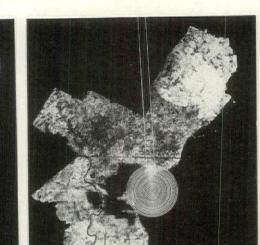
1842 The steam railroad h invented and its growing netw brought Philadelphia new in new communication, new con buildings on central Market Stre

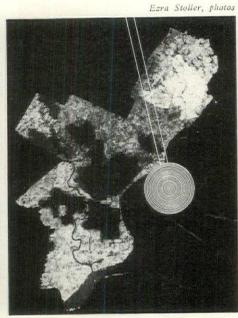
1877 Horse-drawn trolleys and r are spreading residential areas. S the times: Broad Street Stati the "Chinese Wall" (elevated tracks which cut the city in two)

1912 The age of the automobi begun and the city has spilled o boundaries into the country h City Hall and The Bellevue-Str Hotel push the skyline higher.



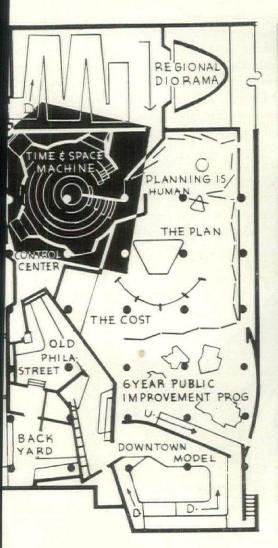
in a series of changing displays dubbed the "Time and Space Machine"



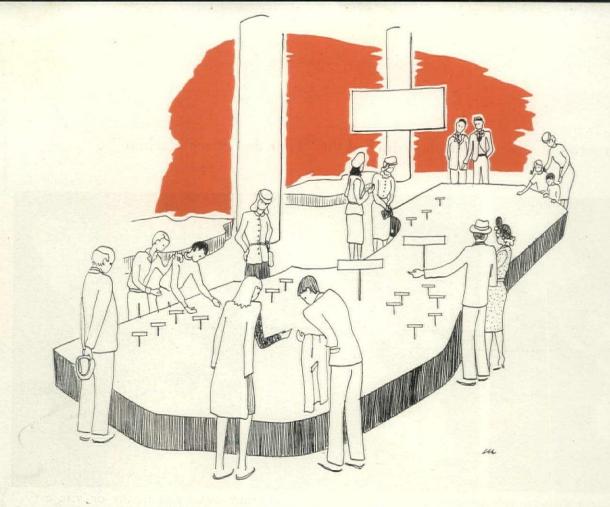


Concealed speakers

PENDULUM SWINGS, THE SHADOW OF BLIGHT SPREADS GRADUALLY OVER THE HEART OF THE CITY





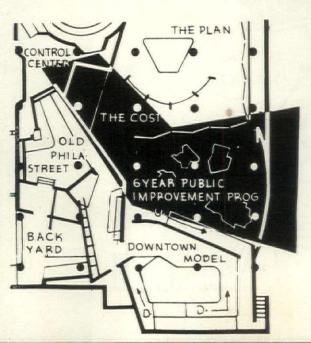


Giant air view shows how realistic six-year program would change the city's face



This huge photo-mosaic features only projects already appropriate City Council. It is of particular importance in gaining the fidence of a public made cynical by utopian futuramas and the of local politicians. Every project, down to the last length of pipe, has been accounted for in the current six-year budget almuch construction has not been definitely scheduled due to make shortages and similar complicating factors. The display also state continuity of the six-year programs. Each September a new including unfinished projects from the preceding year's recommendation plus one year's new work, is submitted by the Planning Council of the City Council. Thus at any given time, some Six-Year is in effect. Each succeeding plan is modified to allow for such as available funds, labor market, material shortages, general by conditions, etc.

The map (see right) is divided into four sections, South delphia, Central Philadelphia, West Philadelphia and Germa so that spectators can get a close view, locating their neighborand their own home. Thus, improvement gains a personal mount which could not be conveyed by an abstract listing of projects



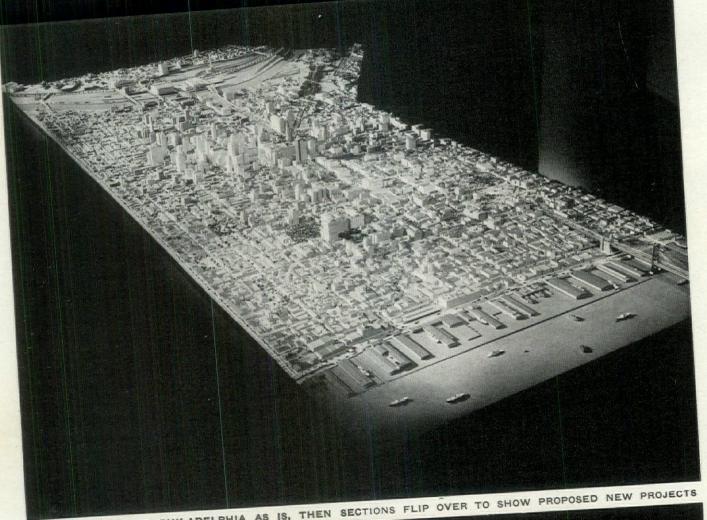


PUBLIC IMPROVEMENTS ARE SPOTTED ON SECTIONAL PHOTO-MOSAIC BY MEANS OF PLASTIC SYMBOLS, LIGHTED FROM BELOW

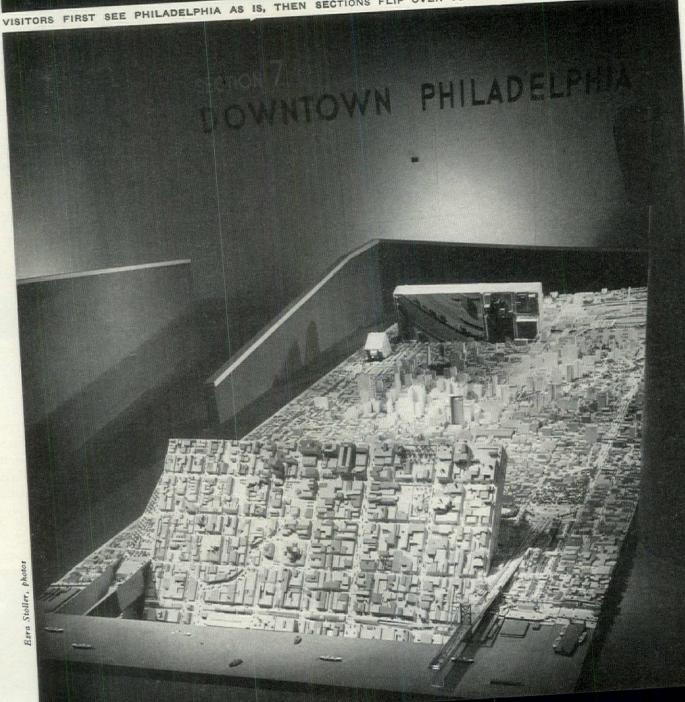
rd and street signs are placed at close intervals to enable visitors ind their way easily in the map. The 1947-52 plan shown here ypical of Philadelphia's down-to-earth improvement program. It ludes: 1) Abatement of river pollution, extension of sewers and er lines. 2) Full development of Southwest Airport. 3) Replacent of elevated tracks in center of city by a new boulevard. 4) Construction of Penrose Avenue Bridge and approaches. 5) Increased recreation facilities such as parks, playgrounds and swimming pools. 6) Extension of Market Street subway. 7) New health centers, schools, and other much-needed institutional building. 8) Incinerators for improved refuse disposal. 9) Completion of Pier 80, South Wharves. 10) New highways and street paving. 11) New police and fire stations.

ICE TAGS ON SCALE MODELS OF TYPICAL PROJECTS GIVE TAXPAYERS A REALISTIC IDEA OF THE COST OF CIVIC PROGRESS





VISITORS FIRST SEE PHILADELPHIA AS IS, THEN SECTIONS FLIP OVER TO SHOW PROPOSED NEW PROJECTS





## Scale model of downtown improvements

is a successful tour de force

The most elaborate display in the exhibition is a 30 x 14 ft. scale model of the downtown area of Philadelphia from the Delaware River on one side to the University of Pennsylvania beyond the Schuylkill River on the other. As the visitors approach down a ramp, they first see the city as it now is. Then, synchronized with an explanatory dialogue and section-by-section spot lighting, portions of the model flip over to show the proposed improvements. Eventually the entire model is reversed, showing the center of Philadelphia as it could be in 30 years if all improvements were carried through. This is the long-range program for which the Planning Commission particularly needs informed citizen support and which is therefore the major raison d'etre of the exhibition. Improvements include a widened Vine Street (the state has already acquired the necessary land), a large bus terminal, an express highway along the Delaware River, a new merchandising center with underground parking at the foot of Market Street, new bridges and apartment house projects, a stately mall to set off Independence Hall (the state has set aside \$4 million toward the purchase of ground and buildings) and the replacement of the "Chinese Wall" with a new midtown boulevard.

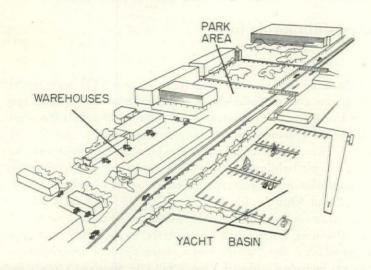
The model itself cost \$50,000, took nine months to build and contains 45,000 buildings, 25,000 autos and buses and 12,000 individually made trees, fashioned of buckram.

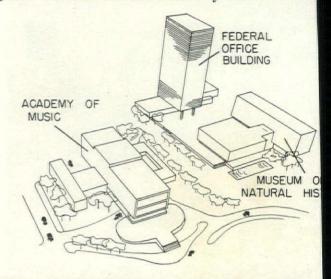




UPSIDE-DOWN MODEL shows central section of city as it should look by 1982. View is from West Philadelphia past the Schuylkill River toward the Delaware. A park on the banks of the Schuylkill, widening of Lombard Street and a bridge are visible in right foreground. Existing 30th Street Station (center) has a cross-river approach from City Hall, replacing elevated tracks of the "Chinese Wall."

## Close-up views of proposed projects for downtown Philadelphia, worked out in detail by various arch





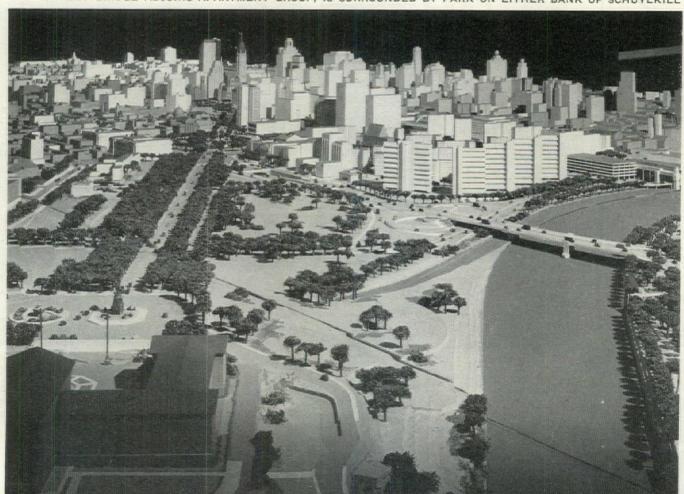


REDEVELOPMENT OF DELAWARE RIVER FRONTAGE. Express highway is flanked by yacht basin and a wholesale center, designed with underground parking. Adjoining the center is a playground.

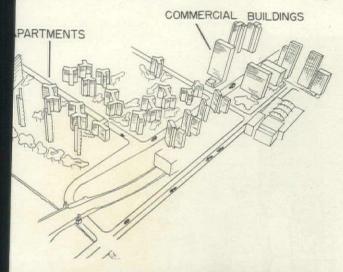


NEW PUBLIC BUILDINGS. Low structures connected by sunken plaz. Museum of Natural History (right) and Academy of Music (left). Skyscrap stilts is the new Federal Building which adjoins existing Bell Telephone Building

VINE STREET BRIDGE ADJOINS APARTMENT GROUP, IS SURROUNDED BY PARK ON EITHER BANK OF SCHUYLKILL



### ggest a possible pattern for future building, both public and private

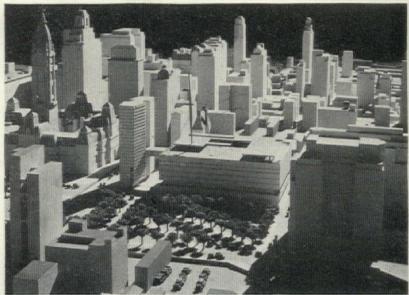




NSYLVANIA BOULEVARD, new approach to the 30th Street on, cuts through the center of town, relieving traffic tangle. Left iangle of office and apartment buildings laced with green space.



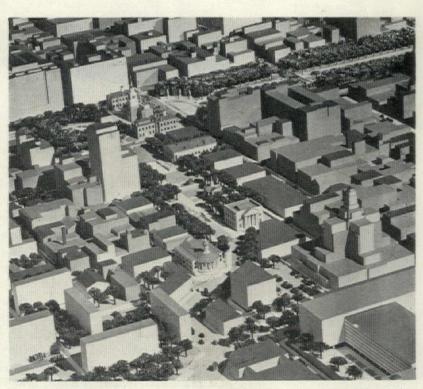
Ezra Stoller, photos



NEW COMMERCIAL BUILDINGS in heart of business district. Department store (center) connects with office building by means of an overpass. Small park relieves monotony of city concrete near existing City Hall (upper left).



PARTMENT HOUSE DEVELOPMENT near 30th Street Station d Drexel Institute of Technology. Low density and park-like rroundings are characteristic feature of all new residential districts.



MORE TREES, MORE OPEN SPACE. Independence Mall (top right) will be extended by the State, East Mall (center) by the Federal government. Opening up acres of closely-spaced buildings is a prime objective of the long-range program.



Redevelopment study of non-slum neighborhood shows its striking



From the overpowering and rather impersonal display of Philadelphia's downtown public improvements, the exhibition jumps to the study of an actual community. This district, chosen for overhauling by the city's Redevelopment Authority, is typical of South Philadelphia's dingy, overcrowded neighborhoods. Although not a slum, it nevertheless lacks adequate shops, play space and new housing. Visitors are introduced to this community study with a full-size reconstruction of a street corner on one boundary of the district. Complete even to a messy garbage can, it recreates the atmosphere of drabness and monotony which blights many of Philadelphia's residential areas more than actual disrepair. After this introduction, visitors enter the mock-up of a row house, typical of homes in the same district, but with a revamped backyard. The simple, inexpensive changes show what private families can do to

make their own quarters more livable. Last, the tators view a scale model of the entire neighbor it would look after the planners had their way In recommending changes, the Redevelopme thority has left most of the buildings intact sin were not actually in bad condition. One secti cluding an old factory and a few dilapidated ho scheduled for demolition. Key to the improven the neighborhood, however, is the removal of Street and its replacement by a playground next existing school. Trolley car lines are removed routed on widened 11th Street. As a result, rewould live on quiet loop streets whose only traffic be to their own homes. New construction is prin designed to add convenience and pleasure to the neighborhood. It includes a shopping center, munity building, nursery school, playgrounds

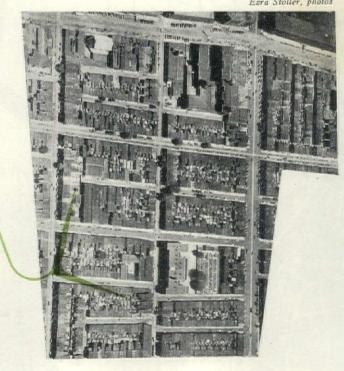


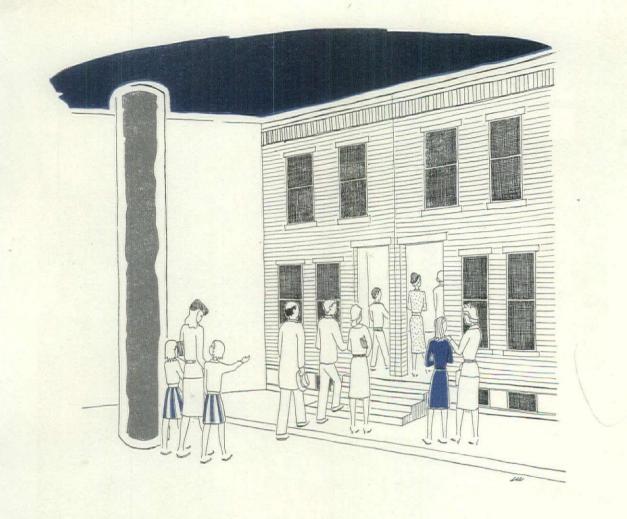
L-SIZE RECONSTRUCTION OF AN ACTUAL STREET CORNER IS DINGY OBJECT LESSON OF WHAT IS WRONG WITH PHILADELPHIA

apartment groups, row houses and low rent hous-Private capital is also expected to find building fitable when blight is removed from the district and re stability established.

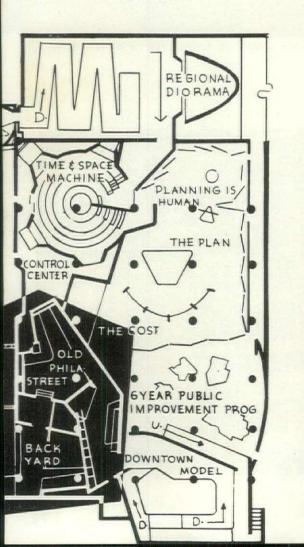
his approach, which foregoes sweeping changes in or of simple rehabilitation, is likely to gain favor h among real estate interests and a conservative zenry which has little quarrel with the status quo. e anonymity of huge, one-class housing projects, eady in disrepute among planners themselves, would initely not go down with Philadelphians. Therefore, n a wholesale redevelopment of row house neighborods would, according to plan, produce a Philadela quite recognizable to its present inhabitants. But, one citizen expressed it: "If some guy wants to fool ound with this place and double the value of my use, God bless 'im."



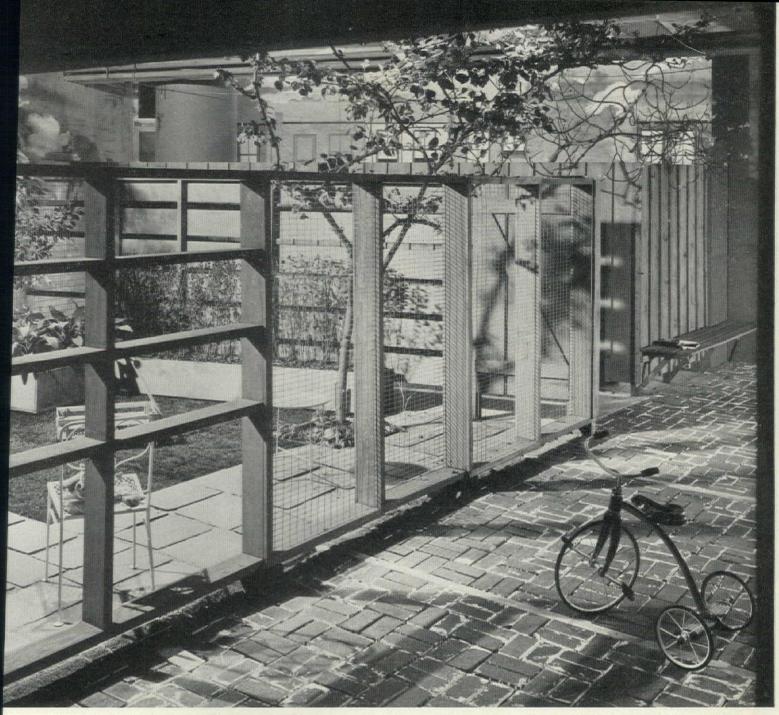




Replica of typical row house shows homeowners how to refurbish their own backyards



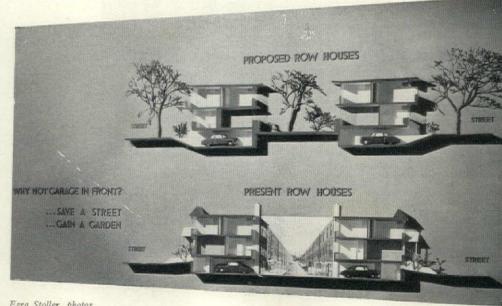
THROUGH MOCK-UP WINDOW VISITORS GLIMPSE MODEL OF REDEVELOPED NEIGHBORHO



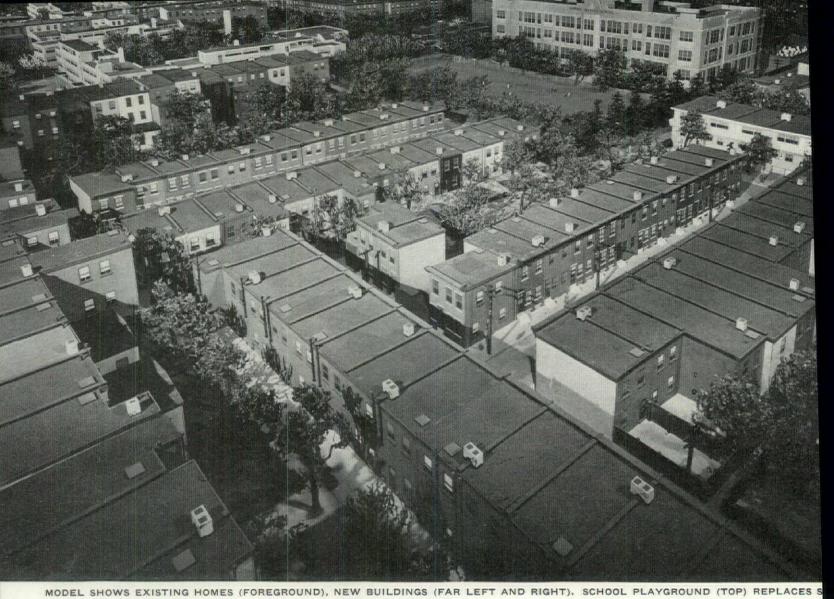
RD OF TYPICAL ROW HOUSE IS RESCUED FROM DRABNESS BY SIMPLE LANDSCAPING WITHIN MEANS OF AVERAGE HOUSEHOLDER

g the row house mock-up, visitors glimpse from ng room window the model of the entire neigh-d which they later examine at close hand. Imely recognizable is the elimination of through and the opening up of crowded blocks with arks and playgrounds. In some cases the small rds of row houses have been thrown together common park and play area. In others (see cut t), the street between adjacent blocks of houses en closed and planted to gardens.

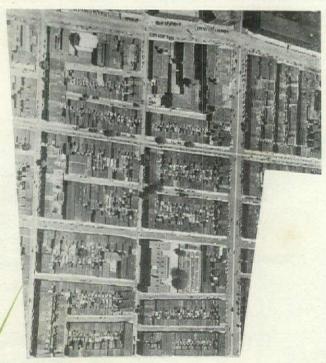
alight of this display, however, is not the distant but a full-size backyard, redesigned to show how to improve their own property. Unfinished s of wood, wire mesh and inexpensive paving have been employed to produce a handsome in place of the former dismal city yard. Such ials would cost no more than \$75, might be up by many householders for less. Grass, trees ower boxes while indigenous to most urban enes, have here been planted with an eye to the Il design.



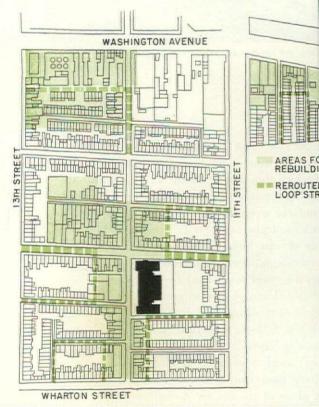
Ezra Stoller, photos



## Improvement program retains all sound building, adds facilities for full community life



AIR VIEW OF EXISTING NEIGHBORHOOD REVEALS HIGH DENSITY



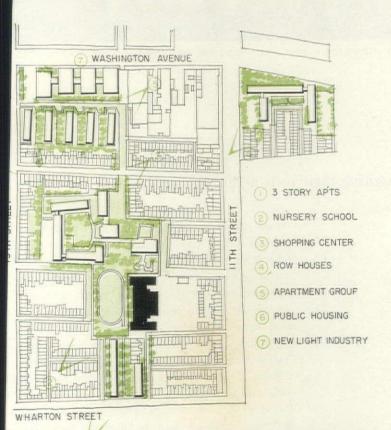
SCHEMATIC PLAN BLOCKS IN NEW AREAS, REPOUTES TRA



) THREE-STORY APARTMENT BLOCK northwest of the existing high chool is an open U-shaped plan surrounding a spacious planted courtyard.



3) SHOPPING CENTER is near apartment group, centering daily activities within easy radius. Parking is for customers beyond walking distance.



MPLETED PLAN FEATURES OPEN SPACE, CONVENIENT GROUPING



2) NURSERY SCHOOL with specially equipped playground for small children is located near apartments, may be reached without crossing street.



4) ROW HOUSES to south of high school are planned as double row with green space between. Balconies and over-all crisp design, relieve monotony.



5) APARTMENT GROUP is also planned to the north of the redevelopment area, near a concentration of new light industry shown in diagram left.

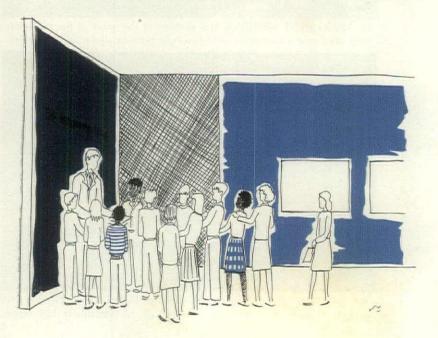


6) PUBLIC LOW RENT HOUSING replaces half of a large city block at northeast corner of district where homes are in particularly bad repair.



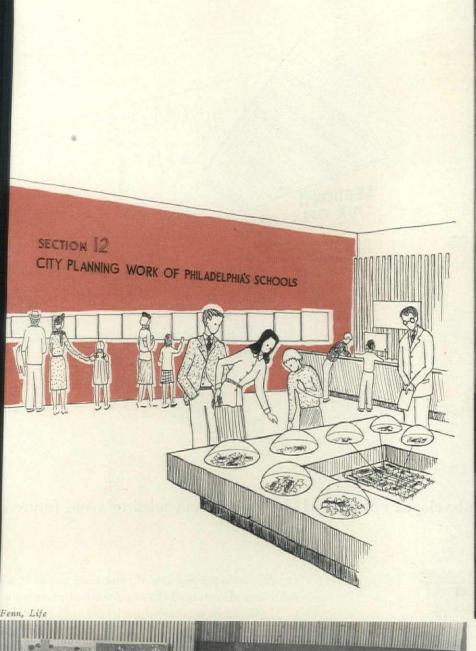
NEOPHYTE REDEVELOPMENT STUDIES ARE SET AGAINST HANDSOME BUT INEXPENSIVE BACKGROUND OF BATTEN BOA

## School children learn about planning by redesigning their own neighborhoods



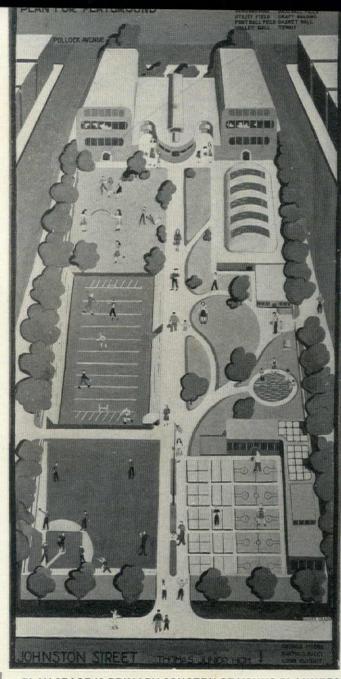
Of all displays, the least elaborate was perhaps of popular with Philadelphians. This was an exhibit school children, showing what their neighborhowould be like if they had a hand in planning. The param was introduced last year as an experiment in of 15 schools. Its success has made it a regular corof study in every school in the city.

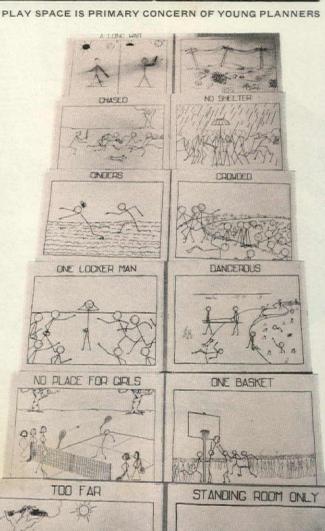
Enthusiasm is equally distributed between plann school authorities and the children themselves. 'Citizens' Council gloats over the mass base for planing this program should produce in a decade. 'Board of Education is delighted with an opportunt o "teach children how to integrate themselves i society." The children, for the first time actively volved in community life, are filled with a new imputance. Their surveys of local conditions have taughted them more about the neighborhood than their pare know, have helped arouse interest on the adult lev





DENT MODELS AND SKETCHES, GIVE CHILDS-EYE VIEW OF COMMUNITY FAILINGS



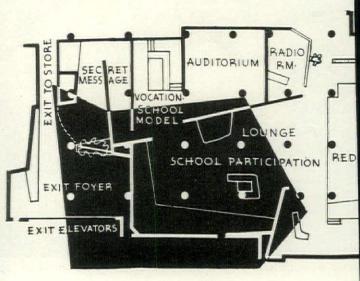




Planned communities for undeveloped outskirts of city are recommended to avoid future s



In addition to the problem of reclaiming run-down are exhibition also stressed the importance of planning in to 15,000 acres of undeveloped land still in Philad Photo-murals show an untouched suburban landscap at one side by the grid pattern of a typical row house opment. Rather than spoil the land's natural assets with an old-fashioned real estate pattern, the planners record a modern community (left), laid out in an informal ing with wide areas of open space.



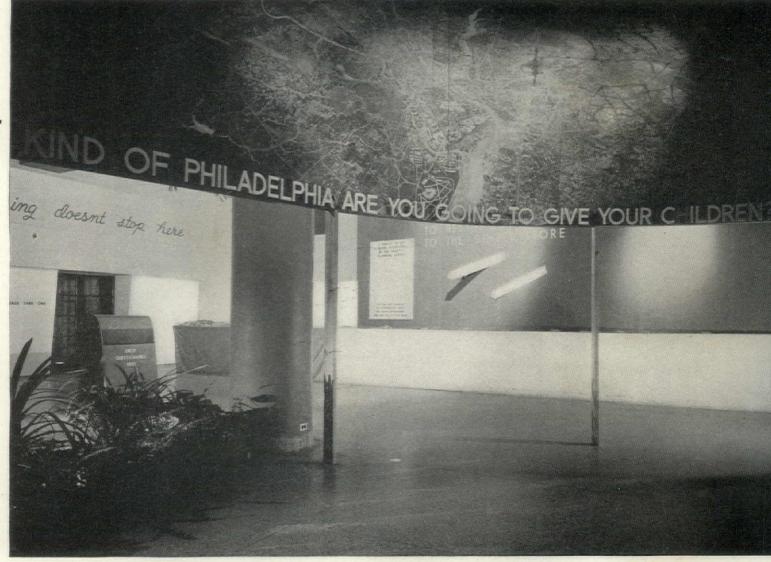
The lavish exhibition still has a trick to go—"a magic ending" of which the designers are rather proud. As visitors pass the last of the displays, an attendant hands them a "secret message" from Mayor Samuel, apparently no more than a blank sheet of paper. Not until they pass through a dark passage on the way out can they read, by black light, the letter from the Mayor.

It is to be hoped that city government will continue to view planning with the favor bestowed by the Mayor's message. But as the Planning Commission knows, neither official cooperation nor spectacular display can insure the success of any program. One thing the planners hope for is a permanent berth for the dismantled show, so that an increasing number of Philadelphians can see it. Most important, however, is a continuing effort to enlist citizen participation at the neighborhood level. This is being done in Philadelphia with the "Neighborhood Planning Conference," a program which, if successful, should vastly increase mass support.

First introduced in 1945 as an experiment in South Philadelphia's third ward, it may (according to hopeful planners) eventually become a citywide program. Neighborhood committees, mainly housewives, study local transportation, lighting, safety, etc., discuss their findings and suggest improvements to the Planning Commission. As a rule the recommendations are sensible ones and many could have come only through first-hand knowledge of the district. One example is the local rejection of a large central market which the Commission had dreamed up to replace messy pushcarts and stall markets on certain Philadelphia streets. The housewives preferred their familiar and convenient shopping methods, asked only to have the neighborhood stalls put in order. Bowing gracefully to the weight of superior judgment, the Commission was able to cut an expensive item from the budget.

Obviously, the most important aspect of such "grass roots," planning, is its educational value. A pre-exhibition survey had shown that only 10 per cent of Philadelphians knew what city planning was and an even smaller number that it had any connection with them. As in every city, getting out an informed vote is therefore the major problem before the planners. Most encouraging note was sounded by questionnaires distributed at the recent exhibition. Sixty per cent of the 365,000 citizens queried answered "yes" to the \$64 question: Would you be willing to pay a little more each year in taxes in order to get things done? Whether the same answer will be given at the polls remains to be proved.

END OF EXHIBITION POUNDS HOME IDEA THAT IMPROVING PHILADELPHIA IS UP TO THE VOTE OF INDIVIDUAL CITIZENS

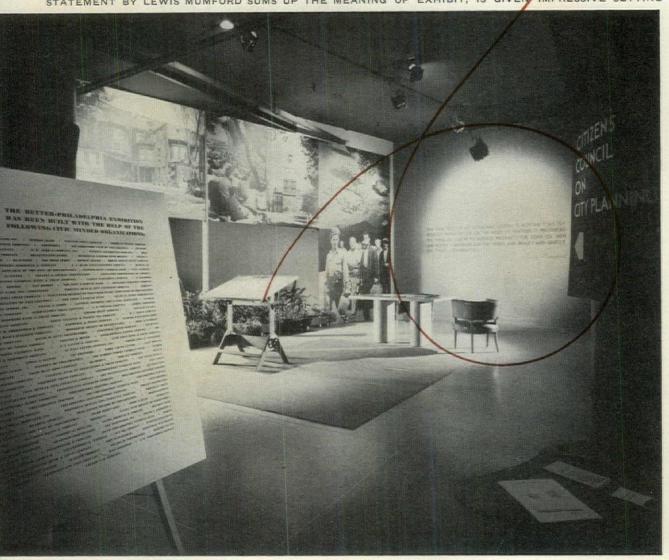


AT

The final test of an economic system is not the tons of iron, the tanks of oil, or the miles of textiles it produces: the final test lies in its ultimate products—the sort of men and women it nurtures and the order and beauty and sanity of their communities.

Lewis Mumford

STATEMENT BY LEWIS MUMFORD SUMS UP THE MEANING OF EXHIBIT, IS GIVEN IMPRESSIVE SETTING



CREDIT for staging the exhibit goes to behind-scenes

experts:

DESIGNER and TECHNICAL
Oscar Stonorov; CO-DESIGN
Bacon; ASSISTANT TECH
RECTOR, David Longmaid;
NICAL STAFF, Charles The
erick Savage, William Stontes
Vivrett, Robert Beals, Cor.
Frederick Dubin.

SPECIAL CONSULTANTS: ING, Daniel Kiley; LIGHTI Kelly; COLOR, Susan Wa DOCUMENTARY PHOTOGR landt Hubbard.

ADMINISTRATIVE STAFF: DIRECTOR, R. H. Protheroe OF PROMOTION, Harry Nastor TOR OF PUBLICITY, Hugh SECRETARY, Edna Smeltze ARTISTS: Roy Webber, I hand at entrance; James I parent plastic mobile; Robe cartoons on planning; Morrisbackdrop painting of 13th Streets.

SPOKEN COMMENTARY: S SCHOOL PRIICIPATION: Cushman, Associate Superior Schools, and John Mladjen, school teacher; Bok Vocat School, Neighborhood Plannission model.

MODEL AND DISPLAY MAK play Studios with Design-Bu diorama, public improvemens motorization of downtown mo ramic Studios, downtown mod & Berlinghoff, plexiglass design and Space" exhibit; Diora mechanical and lighting equipm and Space" exhibit; Jefferson turing Corp., redevelopment m Photo Service, photo mosaic. GENERAL CONTRACTOR FO LATION: David Marder.

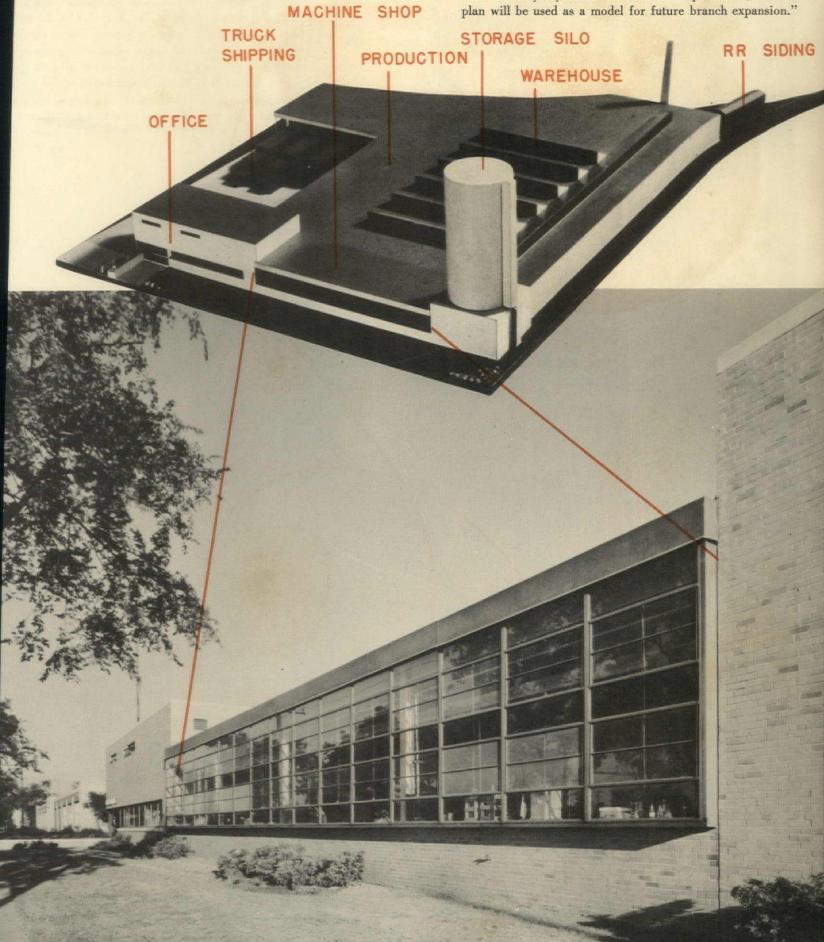
CORPORATE OFFICERS: PA Benjamin Rush, Jr. (Vice Pre surance Co. of North America VICE PRESIDENTS: A. L. (President, Chamber of C Walter Phillips (President, City cil) Arthur Kaufmann (Vice Gimbel Brothers): SECRET Mitchell (Philadelphia Elec TREASURER, Frank Smith Trust Co.); PUBLIC RELATION MITTEE CHAIRMAN, AL P (President, Al Paul Lefton Co BITION COMMITTEE CHAIRM. Eager (Director of Publicity, Pl Evening Bulletin).

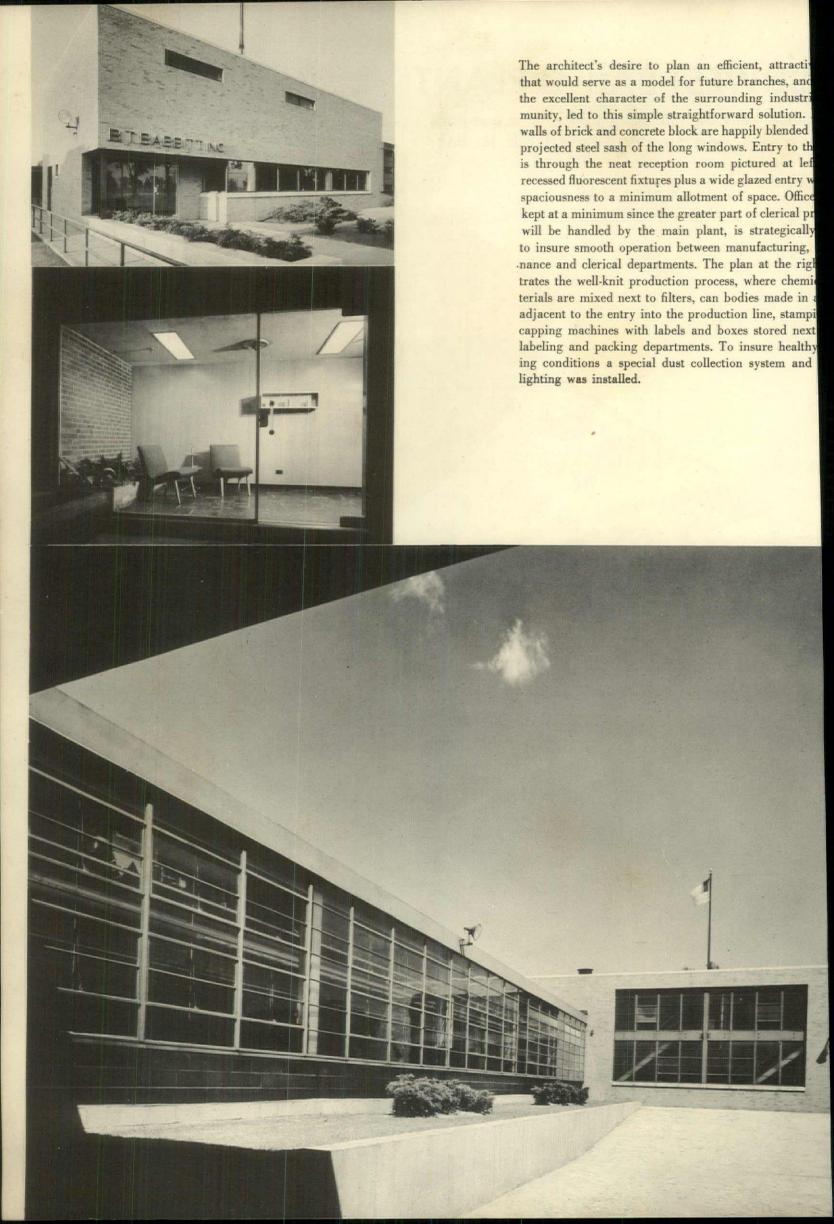
# **NIDWEST BAB-O PLANT**

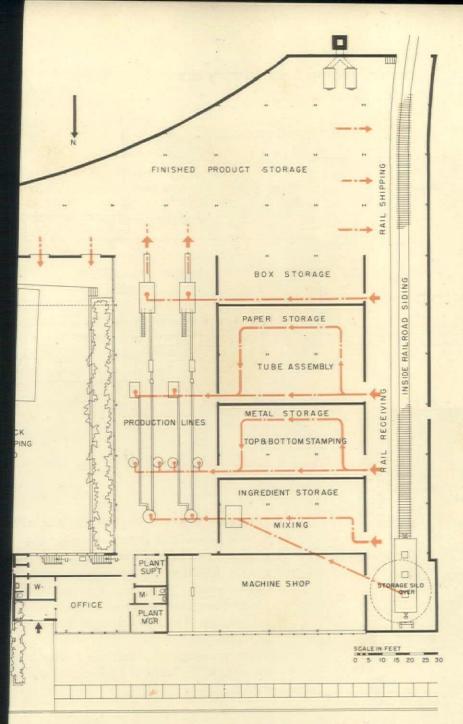
chitect sells an old packaging firm a one-story rout with room for storage and inside loading.

HENRY L. BLATNER, Architect
GEORGE A. TEELING, Heating & Ventilating Consultant

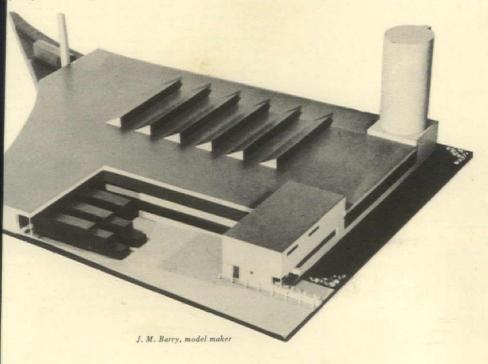
Located in Chicago's Clearing Industrial District, this plant was built by the B. T. Babbitt Co. to manufacture Bab-O drain cleaner and another cleaning caustic for rapid midwest distribution. After an exhaustive study of operations at the main plant in Albany, Architect Blatner finally sold this old (1836) firm on the advantages of a one-story layout, providing for uninterrupted flow of materials and interior loading. And the company seems likely to stay sold. Says president Alton P. Mendleson: "Our ideas on packaging were that gravity must be used to feed production lines. But the result obtained in this one-story layout far exceeds our expectations, and the plan will be used as a model for future branch expansion."

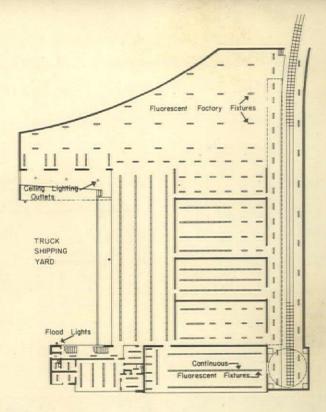




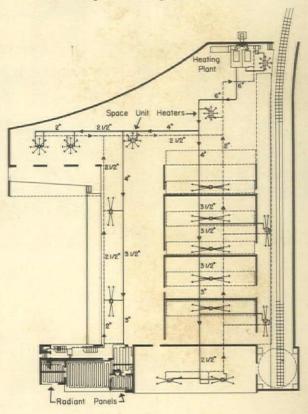


ng the southwest corner of the model below, and symbolizing the company's product, is a silo and conveying system for bulk ingredients. Servicing both receiving and shipping facilitates the flow of materials from box-cars inside through storage and service areas uction lines at the spot where they are used. At the storage and shipping end of the building the street truck loading dock large enough to accommodate materials left overnight for pickup.



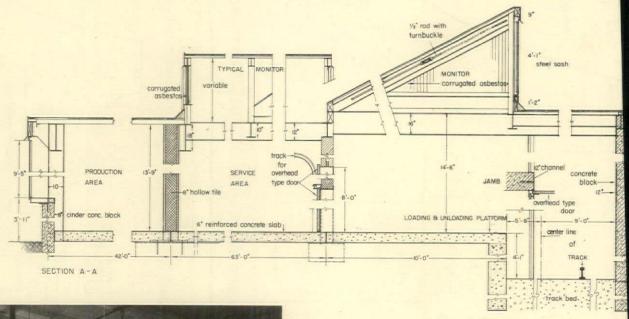


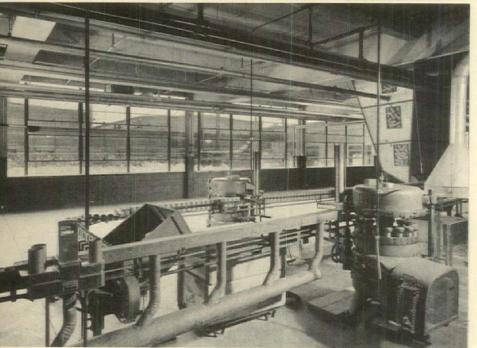
LIGHTING was a specific company requirement for better working conditions. Effective placement of continuous fluorescent fixtures over machine shop and production areas assures high-level illumination, while the oddly-spaced distribution of smaller fixtures over the long railroad spurs affords good light distribution for the loading and unloading of cars.

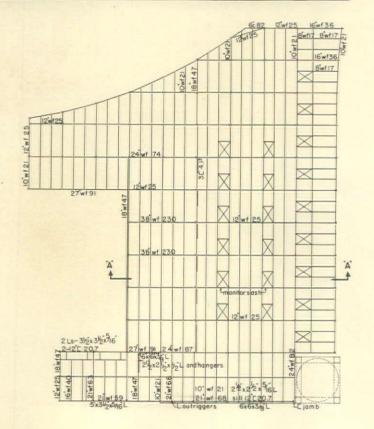


HEATING consists of a split-system of radiant coils in concrete slab for offices, plus unit heaters for the factory section. The revolving head unit heaters used in assembly and production areas are placed in the central portion of the room in such a way as to set up rotational circulation of air towards exposed walls.

#### SAW-TOOTH ROOF monitors and continuous fluorescent tubing light factory area.







The main structure of the plant is built on a 21 ft. steel-framed grid pattern. Over the produ area, steel roof framing consists of heavier mer to allow for future second story expansion. A tinuous monitor, 200 ft. long, lights the loading form, while six saw-tooth roof monitors augmen wide expanse of window lighting in the assembly production areas.

The advantage of a dust-free factory is cl apparent in the clean and open room picture the left.

#### CONSTRUCTION OUTLINE

FOUNDATIONS-poured concrete. STRUCTURE: Exterior (factory) cavity wall, 2 in. air space and concrete block: (of brick, Streator Brick Co. and concrete block. Interior partit concrete block; plywood in office, U. S. Plywood Co. Stru steel—American Bridge Co. Floors—poured concrete. ROO year built-up, Ruberoid Co. SHEET METAL WORK: Flashing ducts-galvanized steel, American Rolling Mills Co. INSULA Walls and office roof—glass wool bats, Owens-Illinois Glass Co crete roof areas and ground floor—Celotex, Celotex Corp. bule and offices—U. S. Gypsum Co. WINDOWS: Sash—pro steel, Truscon Steel Co. Glass—Libbey-Owens-Ford Glass STAIRS—steel, West Architectural Iron Co. FLOOR COVERIN asphalt tile, Thomas Moulding Co. FURNISHINGS—Yawm Erbe and Scott & Duncan Co. DOORS—Roddis Lumber & V Co., Curtis Companies, Libbey-Owens-Ford Glass Co., Rowe Co. Rolling steel shutters and rail siding—J. G. Wilson Corp. F WARE—P. & F. Corbin and Oscar C. Rixson Corp. PAINTS den Co. and Pratt & Lambert. ELECTRICAL INSTALLATION: V system—copper wire in rigid conduit. Switches—tumbler, Ge Electric Co. Fixtures—fluorescent. Special equipment—Hein Co. PLUMBING FIXTURES—Henry Weis Manufacturing Co. Pi Crane Co. HEATING AND AIR CONDITIONING: Offices-ra hot water coils, A. M. Byers Co. Factory—unit heaters, L. J. Co. Air conditioning—cooling, ventilating, humidifying, dehu fying and filtering, York Corp. Boiler—U. S. Radiator Corp. burners-Ray Co. Air diffusers-Anemostat Co. Regulators-H well Regulator Co. Radiant heat controls—Sarco Co. Valves—Co. Water heater—Patterson-Kelly Co. Heat exchange—Bell & sett Co. Pump—Economy Pump Co. Storage silo—William Constructors, Inc.; vacuum cleaning system, Spencer Turbine Compressed air system—Westinghouse Electric Corp. Dust c tion system-Pangborn Corp.



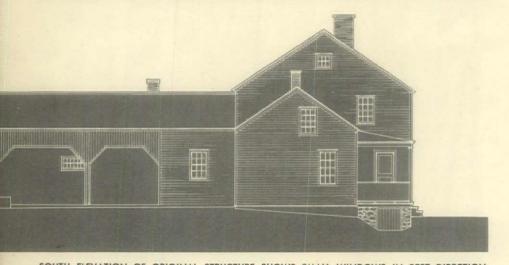
# HOUSES

Remodeled farm house in Connecticut

HENRY HEBBELN, Architect



AWNING-TYPE WINDOWS, DEFTLY PLACED, MEET VENTILATION NEEDS ON THE SOUTH SIDE



SOUTH ELEVATION OF ORIGINAL STRUCTURE SHOWS SMALL WINDOWS IN BEST DIRECTION

Snapped up in the nick of time, this old farm had already been gutted in preparation for co demolition. Fortunately, however, the clapbo terior had been left on to protect its excellent from the weather. Rebuilt a little over a ye when materials were still sadly lacking, the throughout was to provide the most comfe house possible for a minimum expenditure. I colonial framing, in which the ends of the bu serve only as stiffeners, plus the bad condition clapboard on the south side of the house led naturally to the solution of glazing this area module was dictated by the proportions of the ture, also by available dimensions of glass. were set in a framework of standard 2 x 6 in. lu kept as simple as possible. The size of living hearth was determined by the existing foundat what had once been an old central chimney. The plant corner in the south window is likewise laid an old kitchen hearth.

The house is located a mile from the village v has an elementary school, library, fire station, munity playhouse and general store. Good con ing and other shopping facilities are within ten i Environment is typical of Connecticut-rich, a rolling, partially wooded land.

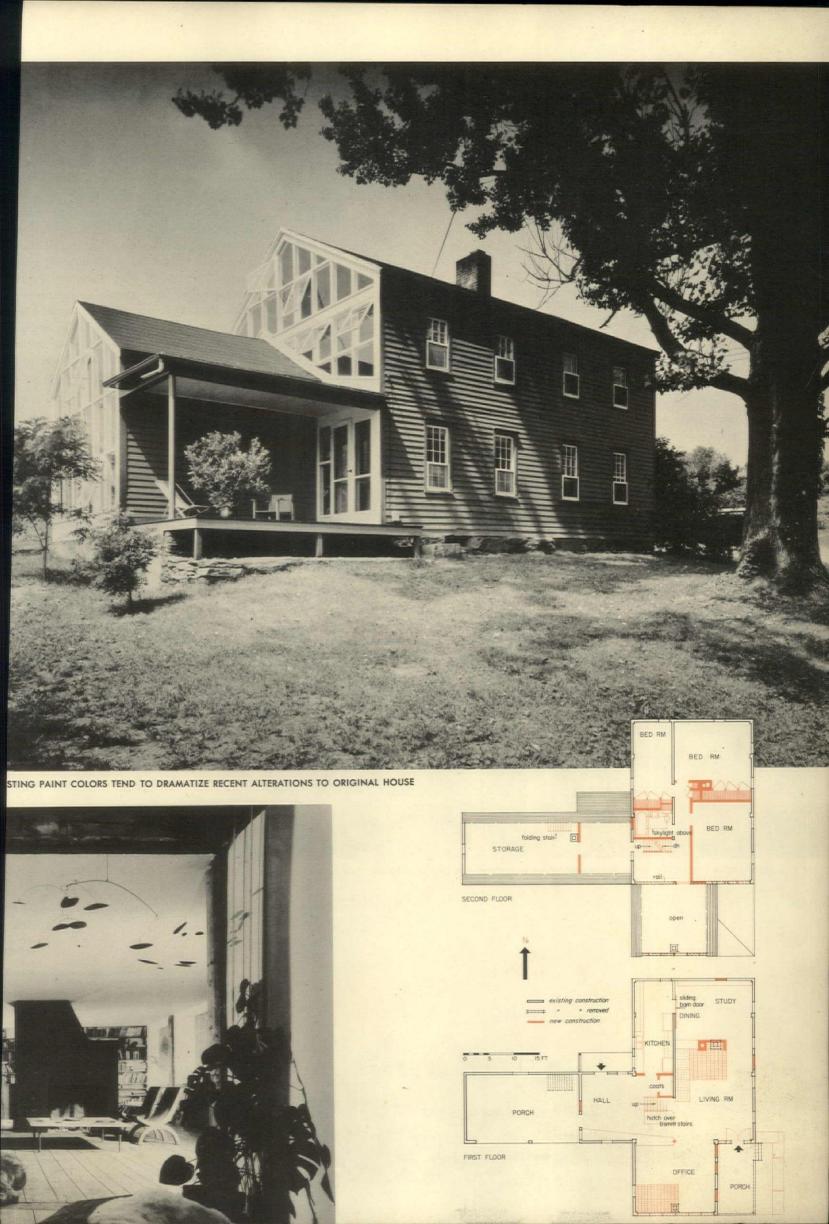
#### CONSTRUCTION OUTLINE

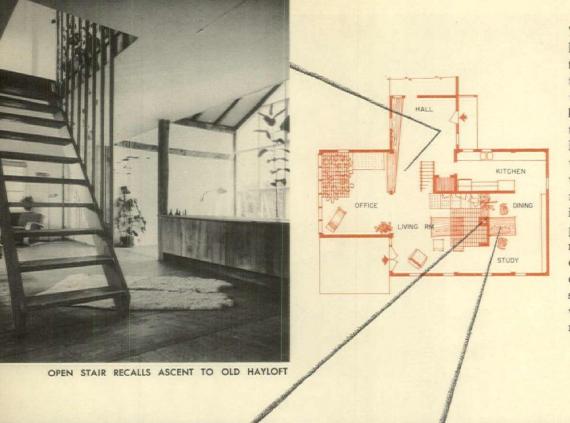
STRUCTURE: Exterior walls-chestnut post and beam frame, sheathing and clapboards; inside—Sheetrock, U. S. Gypsu taped joints. Floors-chestnut boards. Ceiling-Sheetrock, Gypsum Co. ROOF—asphalt shingles, Johns-Manville Cor SULATION—bat insulation, Johns-Manville Corp. SHEET WORK: Flashing—copper. WINDOWS: Glass—double str quality A, Pittsburgh Plate Glass Co. ELECTRICAL FIXTURES Versen and General Lighting Co. KITCHEN EQUIPMENT: Ro electric. Refrigerator—electric, Kelvinator Div., Nash-Kelv Corp. BATHROOM EQUIPMENT—Crane Co. PLUMBING: Soil -cast iron. Vent pipes-lead. HEATING-hot water system.

OFFICE AND LIVING ROOM OPEN WIDE TO ONE ANOTHER, NEW GLAZING PROVIDES ILLUMINATION FOR BOTH, AUGMENTED BY ORIGINAL EAST WINDOWS IN LIVING









The only space division remaining within house was a structural stud wall from the to the eaves. This now serves as the partition the living room and kitchen. In plan, the enti with the exception of the second floor bedro kept as unencumbered as possible. The balco to the glass end of the house as well as the hall. This, in turn, is open to the third flo viding a greater sense of spaciousness and ventilation. Everything is planned for th mality and ease of a simple country life. The is finished in Sheetrock and weathered woo porates a few rough wood posts where the required them. Open shelves and sliding c doors of plywood were selected for purposes omy. Most of the cabinet work incorporates salvaged from an old barn. The main entra was borrowed from the carriage house win rear which was otherwise left unchanged.





FREESTANDING FIREPLACE SEPARATES LIVING ROOM AND STUDY. THE LATTER, ALSO USED FOR DINING, IS DIVIDED FROM KITCHEN BY SLIDING BARN DOOR





SCO EFFECT OF THE CENTRAL STAIR AND LANDING IS UNIQUELY SPACIOUS. THOUGH PART OF THE SECOND FLOOR IS VISIBLE, BEDROOMS ENJOY COMPLETE PRIVACY

# Winter house tilts shed roof to view

ARTHUR T. BROWN, Architect JOHN M. HARLOW, Landscape Architect MEREDITH WOOD, Owner

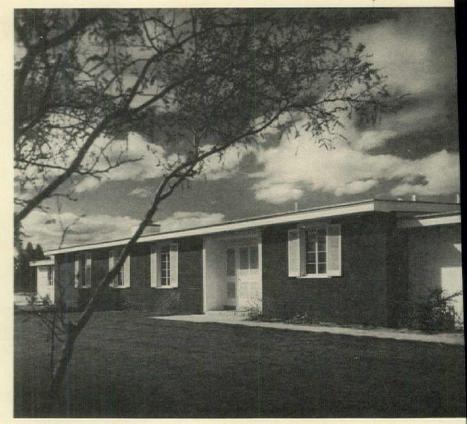
The requirements of three school-age boys were paramount in shaping the plan of this Arizona house for winter residence. Asking that living space be opened as much as possible to the out-of-doors and view, the owner also emphasized privacy for each member of the family. The architect's elongated plan swings around a generous patio and cuts down cross traffic through the house by providing direct access to the patio from kitchen, living and bedroom areas. The direct connection is particularly important in utilizing the outdoors as part of the boys' sleeping-andplay area in the west wing.

To capture a view of the Catalina mountains, the window wall was placed on the north and the roof tilted in this direction. The unfinished redwood beams of the living room ceiling are carried out in a wide roof overhang above the fieldstone patio.

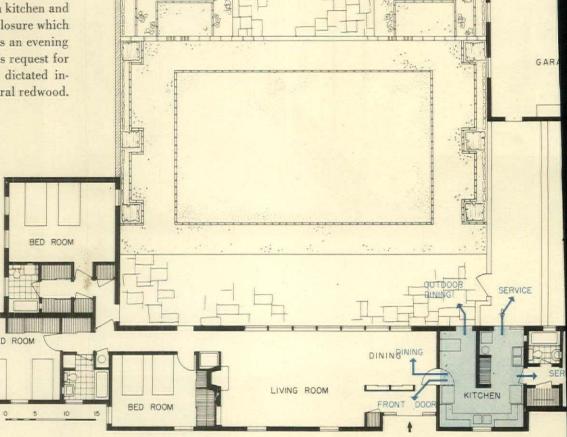
The storage wall section bordering the dining area is noteworthy as a simple device for space definition. It creates a hallway accessible from both kitchen and living room and also gives a sense of enclosure which helps to make the dining area inviting as an evening study place for the children. The owner's request for materials impervious to growing boys dictated interior finishes of painted brick and natural redwood.

#### CONSTRUCTION OUTLINE

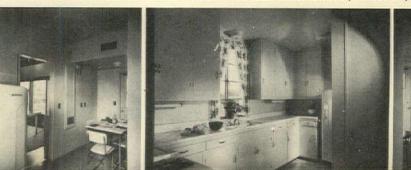
FOUNDATIONS - concrete, Portland Cement Co. STRUCTURE: Exterior walls-brick. Floors-colored cement. Ceilings-redwood or plaster. Roofasbestos white top, Johns-Manville Corp. INSULATION: Roof-Celotex Corp. FIREPLACE: Damper - H. W. Covert Co. SHEET METAL WORK: Flashing - aluminum, Aluminum Co. of America. WINDOWS: Sash-steel casements, Soule Steel Co. Glass-Libbey-Owens-Ford Glass Co. FLOOR COVERINGS: Main rooms - rugs. Kitchen-asphalt tile, Armstrong Cork Co. PAINTS - The Sherwin-Williams Co. WOODWORK: Doors-flush gum, Rezo, Paine Lumber Co., Ltd. HARD-WARE-Schlage Lock Co. ELECTRICAL INSTALLATION: Switches - Bryant Electric Co. Fixtures—General Electric Co. KITCHEN EQUIPMENT: Range-Tappan Stove Co. Refrigerator -Westinghouse Electric Corp. LAUN-DRY EQUIPMENT: Washing machine -Easy Washing Machine Corp. BATHROOM EQUIPMENT and HEAT-ING-forced warm air system. Regulator - Minneapolis-Honeywell Regulator Co. Water Heater-American Radiator-Standard Sanitary Corp.



ON STREET SIDE, WHITE SHUTTERS AGAINST BLACK-CHERRY-RED WALL ARE GESTURE TO CON



KITCHEN IS SPLIT BY CENTRAL UTILITY WALL INTO SERVANTS' DINING, COOKING, LAUNDRY





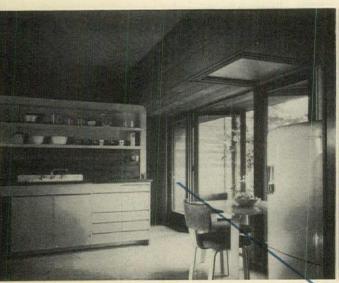
OM LIVING AREA IS EMPHASIZED BY UPWARD SLOPE OF ROOF TO WINDOW WALL

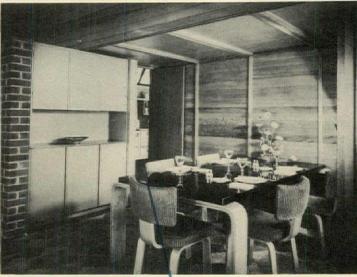


STORAGE WALL ISOLATES DINING SPACE, CREATES ENTRANCE WAY



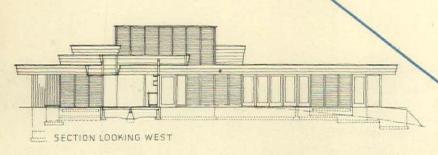
ATED PLAN TURNS AT BEDROOM WING TO EMBRACE A FLAGSTONE PATIO AND GRASS YARD, ENCLOSED ON WEST BY WALL AND SERVICE YARD LEADING TO GARAGE







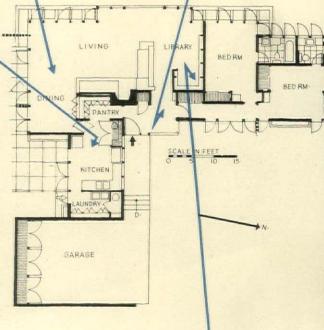
HOUSE IS SIMPLY FURNISHED, THANKS TO A WEALTH OF BUILT-IN EQUIPMENT IN KITCHEN (LEFT), DINING ROOM AND PANTRY, (CENTER) AND LIVING ROOM



Although in some hands a module might prove restrictive, here it appears as a liberating factor, permitting variations in both plan and elevation. The line of the cornice, although rigidly fixed at the window head throughout, thus becomes a lighting cove in the living room; and the living room ceiling, raised one module above the rest of the house, adds space where it is most effective. A similar regularity is found in the color scheme of the house-a scale established by the colors of woven grass carpeting, natural wood and warm coral brick.

#### CONSTRUCTION OUTLINE

FOUNDATIONS—concrete. STRUCTURE: Exterior walls—studs faced inside and out with T. & G. redwood, waterproof felt. Floors-fir. Ceiling-Celotex panels, Celotex Corp. ROOF-Tropi-Cool Products Co. INSULATION-Celotex Corp. FIREPLACE: Damper—Superior Fireplace Co. SHEET METAL WORK: Flashing— Armco, American Rolling Mill Co. Leaders—cast iron. Ducts—galvanized iron. WINDOWS: Sash-wood. Glass-Libbey-Owens-Ford Glass Co. FLOOR COV-ERINGS: Main rooms—hemp squares. Kitchen and bathrooms—linoleum. WALL COVERINGS: Main rooms-redwood or plywood. Bathrooms-plaster. PAINTS -Sherwin-Williams Co. and Samuel Cabot, Inc. WOODWORK: Doors-Paine Lumber Co., Ltd. HARDWARE-Schlage Lock Co. KITCHEN EQUIPMENT: Sink -Crane Co. Fan-Pryne & Co. BATHROOM EQUIPMENT-Crane Co. Cabinets-Formica tops, Formica Insulation Co. HEATING-warm air system, Payne Furnace & Supply Co. Water heater-Crane Co.



BOOKCASES FORM NOOK IN THE LIVING



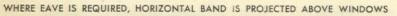


NG DOORS AT SOUTHERN END OF LIVING AREA OPEN ONTO A SERIES OF SHADED BRICK AND OPEN GRASS TERRACES COMMANDING FINE VIEW OF HILLS



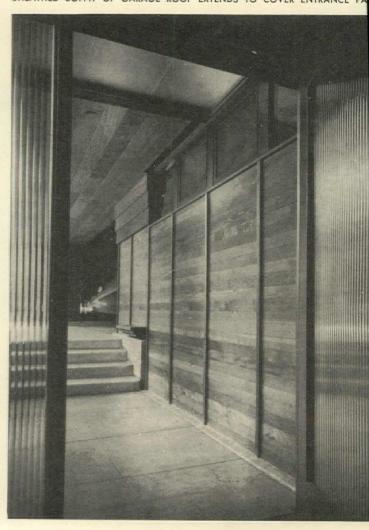


FROM THE NORTH, THE HOUSE PRESENTS AN APPEARANCE OF UTMOST SIMPLICITY AND REPOSE. SERVICE WING IS AT LEFT, ENTRANCE CENTER, BEDROOM WING AT

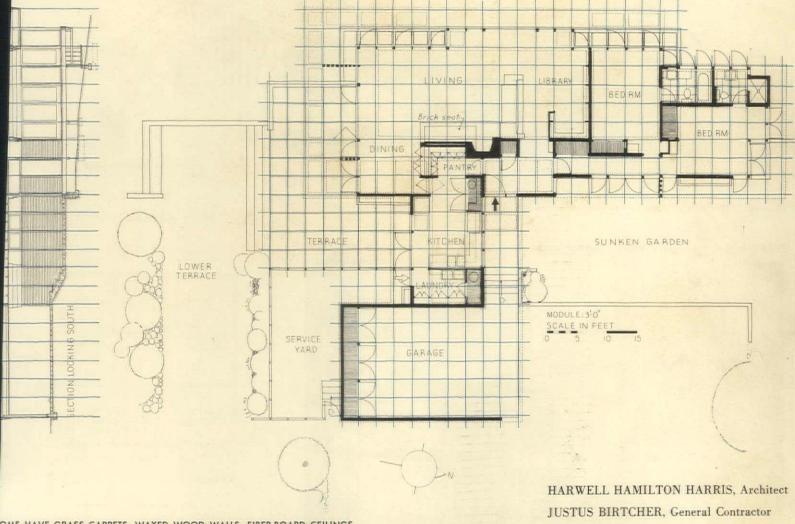




SHEATHED SOFFIT OF GARAGE ROOF EXTENDS TO COVER ENTRANCE PA



# roit handling of wood marks this hilltop house



OMS HAVE GRASS CARPETS, WAXED WOOD WALLS, FIBER-BOARD CEILINGS



This house in Los Angeles shows the architect's characteristically competent utilization of a typical piece of Southern California hillside and demonstrates once again his masterful handling of wood. Entered from the motor court at the northeast corner of the plot (top, facing page), the house is organized into an L-shaped plan which places all living areas to the south and west. Here there is a fine view out toward the Pacific and a sufficiently sharp drop to the land to afford complete privacy for the large glass areas. The house is actually not large,\* although its 40 ft. living room is so cannily linked with a system of covered and opened terraces as to create the illusion of great spaciousness.

To protect his glass areas from the afternoon sun, Mr. Harris has employed wide cantilevered eaves. These are low (6 ft. 10 in.) and quite thick (2 ft. 6 in.); and to prevent them from seeming oppressive, he has perforated the outer edge with a line of open coffers, whose depth is sufficient to exclude all but the noonday sun.

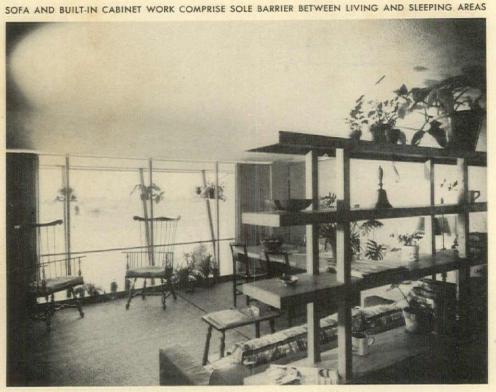
The structural system employed was a controlling factor in the entire design. Built entirely of redwood, the walls are framed to a 3 ft. module, and sheathed inside and out with tongue-and-groove redwood planks, with the joints covered by battens nailed to the studs. This creates a panel effect which carries up to the line of door and window head (6 ft. 8 in.). Above this is a continuous band of lapped boards which, when projected, forms the deep eaves described above.

\*Originally built for a childless couple, it was subsequently sold to another family-also childless-who find that it suits their needs perfectly. Small house gives maximum space in minimum are



CARPORT SERVES AS OUTDOOR SITTING AREA, CAN BE ENCLOSED TO PROVIDE FOR FUTURE EXPANSION

ALDEN B. DOW, Architect LESTER V. KENT, General Cor



PARTITIONS WERE INSTALLED AFTER CEILING HAD BEEN FINISHED. BOTTOM VIEW IS TOWARD KITCHEN



BED RM BED RM STORAGE 9-6"x9"-6" STORAGE 9-6" S

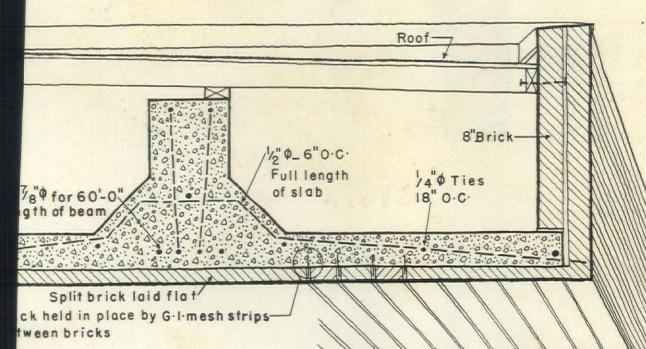
With the sleeping and service areas bent in an La a spacious central living room, architect Do produced an extremely compact and econo house for the midwest. One of the most impo savings realized by this arrangement was the nation of one wall of the interior corridor. This to the feeling of spaciousness, provides better ve tion yet maintains a clearcut circulation pattern cess from the outdoors is either through the ki or the carport. Oblique supports from the living window sill to the edge of the overhang have decorative than structural value but tend to inc the apparent size of the house from within and out. Exterior walls are of cinder block expose both sides and painted turquoise inside and Woodwork is yellow: sash, magenta. By enclosed the carport, the tool room could be made int additional bedroom with storage under the eav

#### CONSTRUCTION OUTLINE

STRUCTURE: Exterior walls—cinder concrete blocks. Floors-E. L. Bruce Co. Ceiling—plaster board and Rocklath, U. S. Gy Co. ROOF—3-ply gravel, built-up. SHEET METAL WORK: Flash galvanized iron. WINDOWS: Sash—double hung and fixed.—double strength and plate. FLOOR COVERINGS: Kitchen bathrooms—linoleum. WALL COVERINGS: Main rooms—plyx Kitchen and bathrooms—plaster board. ELECTRICAL INST. TION: Wiring system—Romex, General Cable Corp. Fixtures-cial. KITCHEN EQUIPMENT: Range—gas. Refrigerator—ele LAUNDRY EQUIPMENT: Washing machine—Bendix Home Ances, Inc. HEATING—Coleman floor hot-air heaters, The Col. Co., Inc. Water heater—gas.

#### PRODUCTS AND PRACTICE

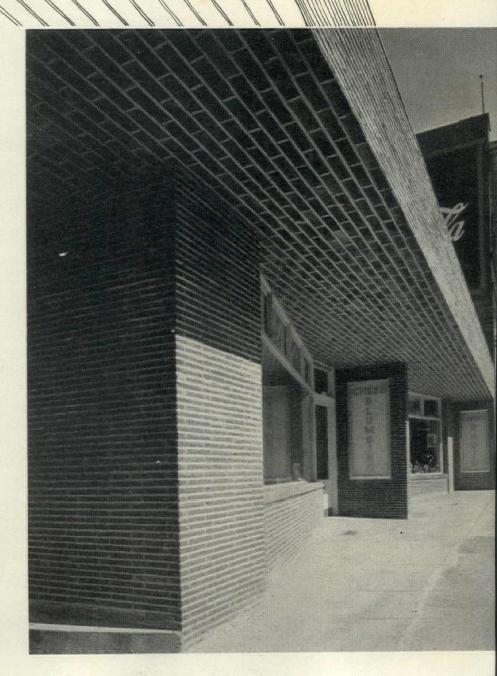
BRICK-SHEATHED MARQUEE uses ingenious method for attaching brick to concrete.



The old problem of avoiding plaster or sheetmetal work in exterior soffits has been solved by Van Evera Bailey, Portland (Ore.) in a recently completed commercial building. Inspired by some soffits he had once seen in Europe, Bailey worked out this method for permanently attaching Roman half-brick to the underside of a concrete slab. For all its tour-de-force appearance, the method is actually quite simple. Instead of the standard form, a wooden platform was erected. Over this 1 in. of mason's sand was evenly spread and on top of this the brick were carefully spaced, with about 1/2 in. of sand swept into the open joints to keep them in place. Then long, 2 in. wide strips of galvanized metal mesh were stuck in the lateral joints; a thin cement grout was poured into the joints, engaging the mesh which protruded about 1 in, above the surface of the brick. After this grouting had set, the reinforcing steel was placed and the pouring of the slab proceeded in the usual fashion.

Architect and owner are well-satisfied with the result. "Experimentally, we tried to pull out a brick from below," says Bailey. "We had to pulverize the brick to get it out." The facing was also economical: according to Bailey, it cost "less than the \$250 labor which the mason contractor had allowed for it."



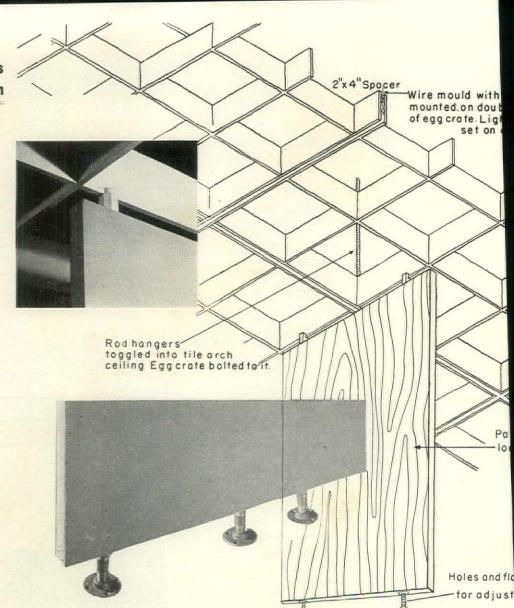


# FLEXIBLE AND LIGHTWEIGHT, Deskey's modular screening system is first step in Boston renovation job.

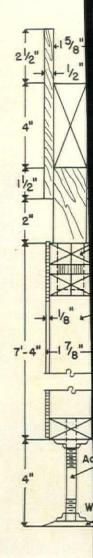
One of Boston's oldest furniture stores-the John H. Pray & Sons Co.-wanted to add a new line of furniture, wanted to display it appropriately in an old building, and wanted the whole thing done with maximum speed and minimum expense. Donald Deskey Associates, engaged to solve Pray's problem, decided that what was called for was, in effect, a complete new inner shell for the showroom which would mask the window-and-radiatorspotted walls and the uneven, pipe-scarred ceiling. Moreover, the installation would have to be flexible, so that displays could be readily rearranged, and free of the ceiling and outside walls, so that alterations would be held to a minimum.

The system as installed consists of a wooden eggcrate, designed to a 2 ft. module and suspended 8 ft. above the floor, a series of four types of panels, identically sized but offering solid, louvered and trellised effects. These panels have a simple method of attachment to the eggcrate and—because of their threaded pipe legs—may be easily adjusted for small variations in the floor. The entire system is thus both flexible and self-aligning.

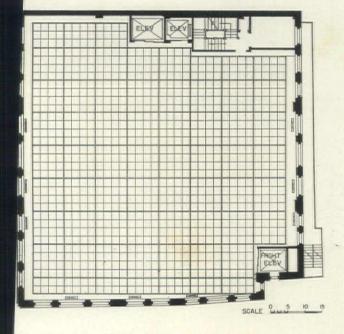
Before installing the eggcrate, the old ceiling was painted a dark dull gray. Spotlights, which can be clamped anywhere on top of the eggcrate, can create any effect desired. Louvered and trellised wall panels permit a relatively free movement of light, air and heat from outside walls.

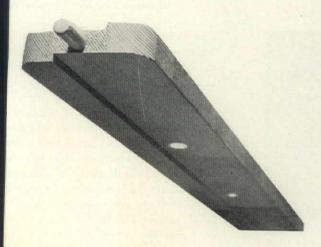


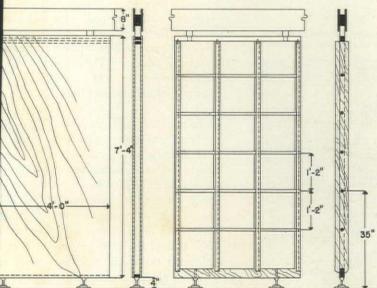




RUCTURAL AND MECHANICAL ALTERATIONS were held a minimum by designing the new screen system to ang free of structural ceiling and outside walls. Designed a 2 ft. module—which matched the column spacing—ne egg-crate ceiling was fabricated in 8 ft. sq. units. hese were suspended 8 ft. above finished floor.



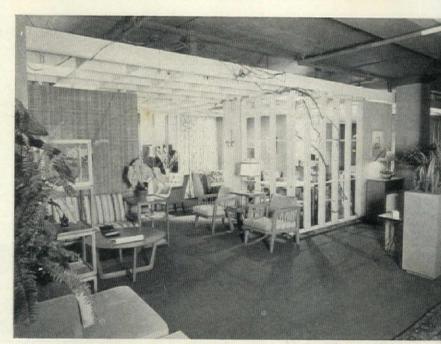




George M. Cushing, Jr., photos

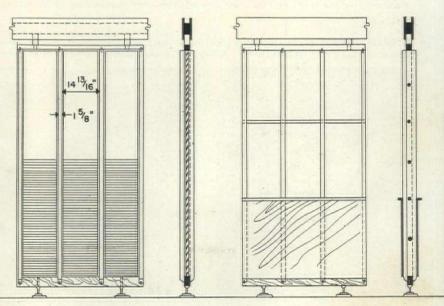


MODULAR CEILING GRID permits great flexibility in placement of partitions.



**GOMPLETELY MASKED** by new suspended eggcrate, the old ceiling with its pipes and beams was painted dark gray. Lights may be clipped to new grid anywhere.

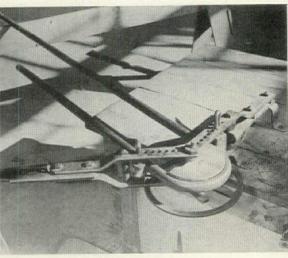
FOUR TYPES OF WALL PANELS, of standard size and identical method of support, permit display areas to simulate solid wall (in either natural wood or painted finish), shutters, windows or trellises. Vertical member (left) is designed for open panels, pivots so that louvered screens may be easily inserted.



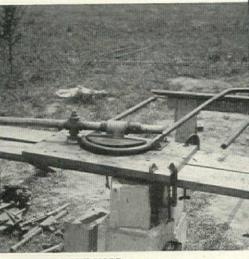
#### COLD BENDING of pipe coils for radiant heating installations facilitated by new benders.



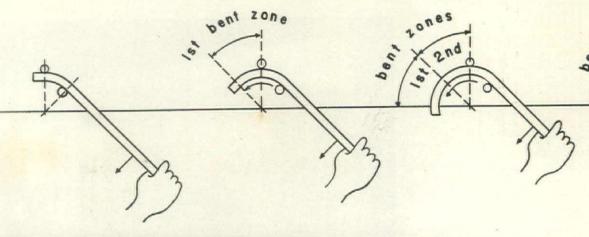
AT A COST OF \$6, this effective pipe bender was rigged up for on-the-job bending.



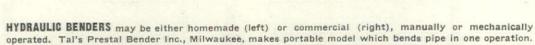
20,000 FEET of wrought iron pipe coils were successfully fabricated on factory-built bender. Lever arm at left.



ANOTHER HOME-MADE pipe bender, simple and pensive to assemble, easy to operate. Lever at I



FOR LARGE JOB-SITE fabrications of many coils of same dimension, a jig may be set up (left). On large diameter pipe one man operates lever arm while another pushes pipe through sheaves in successive steps.









All photos courtesy A. M. Byers Co.

How to bend a piece of pipe without de ing it was, until fairly recently, the le the headaches facing building men. B increasing use of panel heating has br the problem of coil fabrication sharply fore. One of the trickiest of these has that of cold bending the pipe: and alre number of ingenious mechanisms hav peared, some of which are shown here, to the operation simple and sure. Some of pipe benders use levers and some are hyd cally-operated; one costs as little as build, another \$1,000. But they all reco one principle: when you bend a pie wrought iron or steel pipe, you stretch pipe-wall along the outer edge and com it along the inner one. The pipe wall the outer curve will be thinned, that alon inner one, thickened. The diameter of the must therefore be held in strict ratio to diameter of the pipe and thickness of the

BASIC RULES FOR COLD BEI bend pipe in small, successive and never use bent portions as

To minimize deforming, other factors be taken into account in cold bending. In first place, a pipe should never be bent single continuous operation. Instead the should be made in short, successive stage zones. In addition, each zone after it is should be pushed through the machine away from the operator, so that it cease be a part of the lever arm and is hence subjected to further bending stresses. diagram above.)



Ro-Way Doors are made for Residential, Commercial and Industrial installations.

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nal Naval Medical Center, Bethesda, Md. ley Memorial Hospital, Chicago rge Washington University Hospital, Washington, D. C. oness Hospital, Minneapolis Lady of Victory Hospital, Lackawanna, N. Y. cy Hospital, Bay City, Mich. is Research Hospital, Chicago nwestern Hospital, Minneapolis ersity of Illinois Medical Center, Chicago nt Sinai Hospital, Chicago Disciplinary Barracks, Grandville, Wis, nan's Home Companion, New York y Hospital, Urbana, III.

#### USTRIAL PLANTS

our & Company, Chicago rican Radiator-Standard Sanitary Co. npbell Soup Company, Chicago ne Company, Chicago and branches man Kodak Company, Rochester, N. Y. eral Electric Co. eral Fireproofing Co., Youngstown, Ohio ilton Manufacturing Co., Two Rivers, Wis. ft Cheese Company, Chicago vaunee Manufacturing Co., Adrian, Mich. iler Company, Kohler, Wis. o Chemical Co., Madison, Wis. Itest Company Idon Manufacturing Co., Muskegon, Mich. estern Electric Co., Chicago

#### ARTMENT BUILDINGS

00 Lake Shore Drive Apartments, Chicago kefeller Apartments, New York allace Lane Apartments, Indianapolis, Ind. rk Mansions, Schenley Park, Pittsburgh, Pa. 4 Fifth Avenue, New York 50 Park Avenue, New York 7 Fifth Avenue, New York 0 Fifth Avenue, New York East 73rd St., New York 0 Park Avenue, New York East 72nd Street, New York arcliff Apartments, Atlanta, Ga.

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SEE OUR CATALOG IN SWEET'S 1947 ARCHITECTURAL FILE 23-a-8

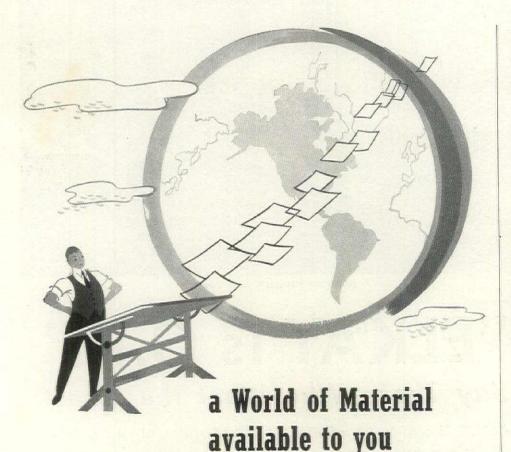
#### ELKAY MANUFACTURING COMPANY 1874 SOUTH 54TH AVENUE . CHICAGO 50, ILLINOIS

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NATIONAL NAVAL MEDICAL CENTER, BETHESDA



#### **ANNOUNCEMENTS**



In the files of The Georgia Marble Company there rests a world of material, accumulated over a period of 62 years, pertaining to the use of Georgia Crystalline Marble. This material consists of photographs and data sheets on exterior and interior applications for theaters, store fronts, courthouses, office buildings, post offices, residences, churches, banks, government buildings, schools, museums, stairs, shower stalls, wainscotting, entrances, mantels, and other uses.

A reference service for you. As a service of The Georgia Marble Company this material is available to you. You need only indicate the type of usage that interests you. Our nearest Sales and Service Office will prepare a packet of pertinent photographs and detail data and either bring it or send it to you, together with samples of Georgia Marble—"the marble with the sparkling crystal." For prompt service, contact the nearest of the offices listed below.

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A SUBURBAN BRANCH FOR BLOOMINGDALE BROTHE large New York department store (sketch below) started this fall in the New York Life Insurance Co. development at Fresh Meadow, Long Island. V Walker, Foley & Smith, architects for New York I work with Bloomingdale's consultant architects Jacobs, and engineer Edward Ashley in developing to Fifty departments will be included in the new two-sbasement building which will also provide parking for 1,000 cars and space for baby carriages and bicycl struction should be completed by August 1948.



A Long-Range Building Program for the Buick Div General Motors at Flint, Mich. is being undertaken by Kahn Associated Architects and Engineers. An eventu of 20 new buildings will replace present miscellaneou tures. First unit to get under way in the new assembly is a three-story building (1,000 x 200 ft.) with a 55 ft. bay at the north end to handle incoming car-frame ship Truck receiving-docks are located at the south end. assembly line starts at the cranebay near the frame s space and moves down through multiple sub-assembly The whole structure slopes with the grade—1¼ in. to 28 ft. bay. All new units will be of structural steel with sash and brick facing.

#### AWARDS

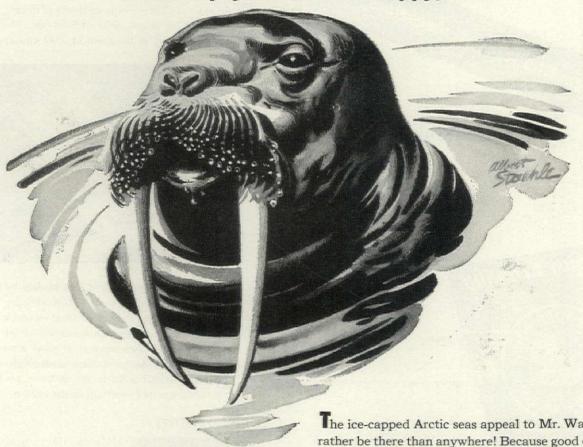
THE JAMES LINCOLN ARC WELDING FOUNDATION annumers in its \$200,000 Design-For-Progress Program prizes ranging from \$100 to \$13,200. Top prize mone to a team of three collaborators in the Aircraft Clation; Paul Hackethal, Clarence Mast and Douglas Iton, all of Koppers Co., Aeromatic Propeller Depar The second main award (\$10,700) was won by Dumbauld, Design Engineer, for his project in the Stru Building and Bridges division; third (\$8,200) was to Storatz. Engineer, in the Industry Machinery Classific

Winners have been announced in the Fourth Annual I National Textile Exhibition sponsored by the Wo College of the University of North Carolina. Judges were Simonson, Mimi Blaker and Noma Hardin. Among pronounced "best of type" and recipients of \$100 prizes Roslyn Bileck, New York, printed textiles group, for a tone leaf design; Ed Rossbach, Seattle, Wash., woven Joy Lind, Cranbrook, Mich., woven drapery and uphols and Tina McMorran, Eugene, Ore., woven synthetics.

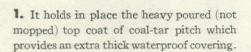
#### EXHIBITS

U. S. TRAINING FOR ARCHITECTS, 1947, the first comparexhibition of work by architectural students, has been a bled by the Architectural League of New York for a new wide tour after its preliminary (Continued on page)

# hat keeps the walrus feeling swell can keep your clients happy, too!



Over 90 years of successful roofing experience has demonstrated the sound value of the gravel or slag wearing surface for built-up roof construction.



- 2. It provides protection against the sun's actinic rays which otherwise dry out the valuable oils in roofing bitumens.
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The ice-capped Arctic seas appeal to Mr. Walrus—he'd rather be there than anywhere! Because good old Nature has given him a thick, tough hide as protection against the elements.

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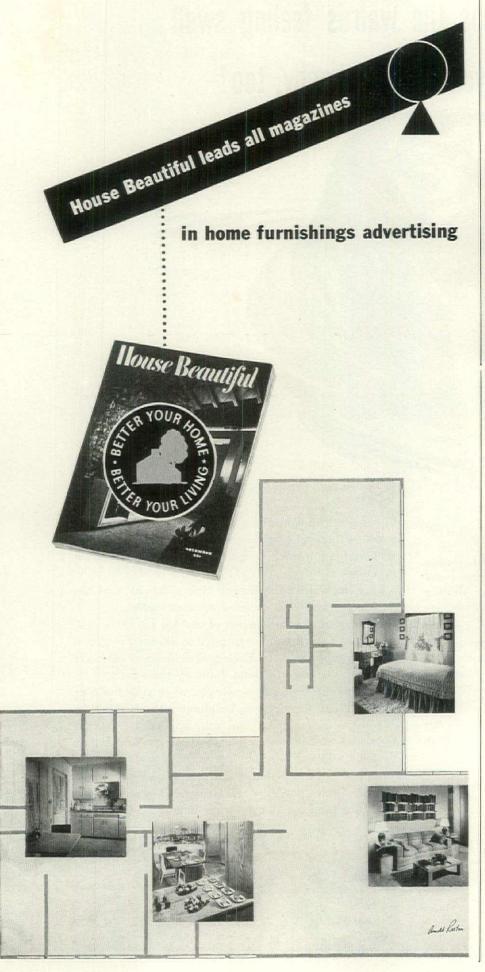




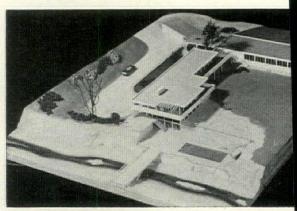


#### **ANNOUNCEMENTS**

Source "Leading National Advertisers," July 1947.



showing in New York during November. Planned limitations of a traveling show, the presentation of eac 35 participating schools is limited to two 4 x 6 ft. whose design expresses its aim in architectural ed William Wurster of Massachusetts Institute of Tech Serge Chermayeff of the Chicago Institute of Desi Frederick Murphy of the Catholic University, Wash D. C., presented concepts of professional training need dinner for university representatives which opened the In spite of differences in method and degree, Mr. Chern dictum "Let us not speak of form—but of purpose and ture" summed up the spirit of 1947 educators.



Several colleges worked out models to supplement expressed in their panels. Most effective among thes Cornell's double study of its ideal swimming stadium; redevelopment suggestion for a section of New York Avenue of the Americas; and (see above) Notre D country house designed for a stream-side slope. More 50 architectural schools in all parts of the country already requested showings of the exhibit.

#### **APPOINTMENTS**



HAROLD HAUF, professor of archural engineering at Yale University now Chairman of its Department Architecture. Edward Stone will associated with the newly organd department as Senior Critic in Archural Design. To supplement the asseries of Visiting Critics, Yale has in a number of "visiting critics in

dence" each of whom will stay at the University for a periodive weeks to supervise a major problem in Advanced Des These critics will include: Louis Kahn, Paul Schweik Carl Koch and Gardner Dailey.

HENRY DREYFUSS has been elected president of the Soo of Industrial Designers for the coming year. Other offi are: Harold Van Doren, vice-president; Egmont Arens, se tary; and Ray Patten, treasurer.

JOSEPH BLUMENKRANZ, New York architect, has been pointed hospital consultant for the War Department Co of Engineers in connection with its nation-wide \$770,000, construction program for the Veterans Administration.

HUSON JACKSON and ARTHUR MALSIN have been nar Design Critics for Pratt Institute, Brooklyn, N. Y. Ron Allwork is now Instructor of Construction at the Institute. TULANE UNIVERSITY announces the following additions to

teaching staff at the School of Architecture: Dr. Maus Barret—Town Planning; (Continued on page 1



#### **ANNOUNCEMENTS**



... with Zephyr Door A shower bath, representative of the best quality in cabinet construction available to the plumbing trade today. Recommended for installation in the better class of homes, institutions, hotels, and clubs. The Fiat Cadet Shower and Zephyr Door are products of fine workmanship and design, in harmony with modern bathroom architecture.

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Charles Colbert-Architectural Design; and James L (former FORUM cover man) -Advanced Drawing and EUGENE STERNBERG, architect and town planner, h. appointed associate professor of architectural design Denver University School of Architecture.

MORLEY WILLIAMS is now Professor of Landscape A ture at the College of Agriculture and engineering University of North Carolina.

#### PICASSO PRINTS

EXHIBITS of recent Picasso drawings at New York's M



of Modern Art prove that the S artist can still arouse controversy medium. A series of reproduction from pen-and-ink drawings in the mir Golschmann Collection show (1923-1938) examples of his tech Limited editions of "Tete de F (see left) and four other prints ( in, x 20 in.; \$5 each) have been b out by Esther Gentle Studios at 7 ford St., New York City. Two Matisse drawings, "Femme au Che and "Head of a Girl" are also ava in the series.

#### PENNSYLVANIA ARCHITECTS MEET

A SERIES OF THREE ALL-DAY SYMPOSIA is being spor by the Pennsylvania branch of the AIA. Each session i ducted in Philadelphia, Pittsburgh and Harrisburg of cessive Saturdays. The first was held during November second, "Schools," will be in Philadelphia on January : final session on "Office Practice," March 6th. The Univ of Pennsylvania, Pennsylvania State College and Car Institute of Technology will collaborate. Speakers Lessing Williams, Fred Severud, Judson Vogdes, Jr., G Fischer and Castro Bullock.

#### CREDITS

HEDRICH-BLESSING STUDIO photographed the Babbitt plant seen on pages 89-92 of this issue; photographs of model are by M. Schwartz.

Our October news-section report on the UN capitol used eight photographs of an impressively life-like model (see right) to illustrate planning and design features of the project. Unfortunately omitted was credit to Raymond Lester Associates, Mt. Vernon, N. Y. for constructing the model.



"RADIANTILE," a cellular tile product used for flooring in radiant-heated Keck house (September Forum, pp. 108manufactured by the Cannelton Sewer Pipe Co.-not Ca ton as misspelled in the text.

#### NEW OFFICES

ELIEL SAARINEN, RAIA, and EERO SAARINEN, AIA, annot the formation of a new partnership under the name Saari Saarinen & Associates with offices at West Long Lake R Bloomfield Hills, Mich.

EDWARD DUNLAP, AIA, has opened an office for general p (Continued on page tice at Edlee, Bethesda, Md.

# KEWANEE

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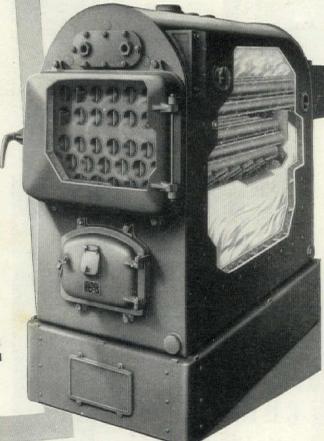
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#### ANNOUNCEMENTS



JOHN CARROLL DUNN, AIA, announces the opening of his office at 717 Washington Place, Baltimore, Md.

ARTHUR KELSEY has opened an architectural office at 1830 Jefferson Place, NW, Washington, D. C.

WILLIAM FREED and MILES GORDON have formed an association for the practice of architecture at 624 Madison Ave., New York, N. Y.

ROBERT LITTLE, architect, is now practicing at 1303 Prospect Ave., Cleveland, Ohio.

DONALD MILLER, AIA and NSPE, announces that he is in private practice at Hametown-Richfield Road, Barberton, O.

HAROLD WRIGHT, RE, announces the opening of an office at 20233 Mack Ave., Grosse Pointe Woods 30, Mich.

DONALD FUDGE, RA, and ALPHEUS UNDERHILL, engineer, are associated as Fudge & Underhill, architects and engineers, at 103 E. Woodlawn Ave., Elmira, N. Y.

S. Y. SAITO, architect, and THOMAS FLINN have opened an office at 513 Lafayette Bldg., Waterloo, Iowa.

PENNURBAN HOUSING CORP. with offices at 125 E. 23d St., New York, N. Y. is a new firm for the planning, construction and management of investment housing, with emphasis on prefabricated houses.

FREDERICK PERL, architect, has opened an office of interior design at 12 E. 46th Street, New York, N. Y.

FINSVEN, INC. at 925 Madison Ave., N. Y. C. is the new distributor for furniture by Alvar Aalto, Finnish designer.

NEW DESIGN, INC., a center for the display and sale of out-(Continued on page 120) standing contemporary

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912, AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946 OF THE ARCHITECTURAL FORUM, published monthly at New York, N. Y. for October 1, 1947.

State of New York of Ss.

Before me, a Notary Public in and for the State and county aforesaid, personally appeared Vernon Hitchcock, who, having been duly sworn according to law, deposes and says that he is the Business Manager of THE ARCHITECTURAL FORUM and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Acts of March 3, 1933, and July 2, 1946 (section 537, Postal Laws and Regulations), printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor and business manager are: Publisher, Time Incorporated, Time & Life Building, Rockefeller Center, New York 20, N. Y.; Editor Henry R. Luce, Time & Life Building, Rockefeller Center, New York 20, N. Y.; Managing Editor, Henry Wright, 350 Fifth Avenue, New York 1, N. Y.; Business Manager, Vernon Hitchcock, 350 Fifth Avenue, New York 1, N. Y. 2. That the owner is: Time Incorporated, Time & Life Building, New York 1, N. Y. 2. That the owner is: Time Incorporated, Time & Life Building, New York 1, N. Y. 2. That the owner is: Time Incorporated, Time & Life Building, New York 1, N. Y.; Irving Trust Company, N. Y. C., Successor Trustee U-W of Briton Hadden for the Benefit of Elizabeth Busch Pool, c/o Irving Trust Co., Custodies Dept., 1 Wall Street, New York 15, N. Y.; Robert L. Johnson, Temple University, Philadelphia, Pennsylvania; Margarate Zerbe Larsen, c/o Time Inc., Time & Life Building, Rockefeller Center, New York 20, N. Y.; Henry R. Luce, c/o Time Inc., Time & Life Building, Rockefeller Center, New York 20, N. Y.; Henry R. Luce, c/o Time Inc., Time & Life Building, Rockefeller Center, New York 20, N. Y.; Henry R. Luce, c/o Time Inc., Time & Life Building, Rockefeller Center, New York 20, N. Y.; Samuel W. Meek, c/o Greenwich Trust Company, Greenwich, Conn.; J. P. Morgan Co., Inc., for the Account of Henry P. Davison

are: None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or hany other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing afflant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affaint has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

(Signed) Vernon Hitchcock,

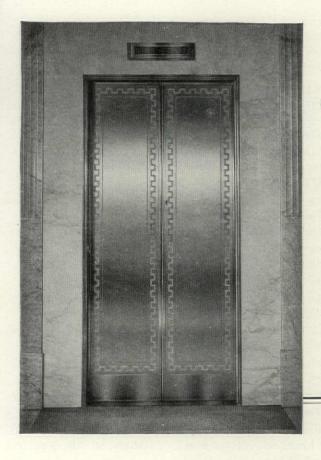
or other securities than as so stated by him.

(Signed) Vernon Hitchcock,
Business Manager.

Sworn to and subscribed before me this 29th day of September, 1947.

JEANNE MARIE CONNOLLY,
Notary Public.

(My commission expires Mar. 30, 1949)



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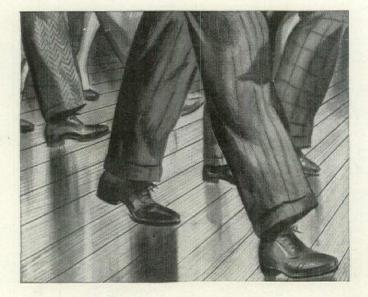
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#### **ANNOUNCEMENTS**



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furniture and home accessories, also offers architectural planning for interiors. Director of the new firm at 33 E. 75th St., New York City, is Dorothy Q. Noyes; assistants are Harriet Rosenberg and Edith Perlman.

#### CHANGES OF ADDRESS

C. HARDY OLIVER, AIA, and ALEX DICKSON, AIA, announce the removal of their offices to 2065 Blossom St., Five Points, Columbia, S. C.

FAULKNER, KINGSBURY & STENHOUSE, architects, with BEN DYER associate have moved to new offices at 1200 18th St., W, Washington 6, D. C.

ALVIN LUSTIC and SAM REISBORD are now at 9126 Sunset Blvd., Beverley Hills, Calif.

RALPH CROOK, RA, announces that he has moved to Lancaster National Bank Bldg., 126 W. Main St., Lancaster, Ohio.

EUGENE BACK, architect, is now located at 677 Fifth Ave.. New York 22, N. Y.

JAMES ROSE, landscape architect, announces that his new address is 439 W. 21st St., New York, N. Y.

WHITE & GRIFFIN, architect-engineer associates, have moved their office to 126 John R., Detroit, Mich.

EDWARD MILLS, FRIBA, has moved to 38A Soho Square, London, W. 1, England.

MATTHEW EHRLICH, architect, is located in offices at 908 Chestnut St., Philadelphia 6, Pa.

MILTON PRASSAS announces the removal of his architectural and engineering practice to 1737 Harvard St., NW, Washing-

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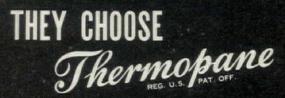
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#### REVIEWS



Christ's Entry into Jerusalem-Oil-20' x 30'



Canvasses strew the warehouse floor . . .



The hammer rapped twice . . .



Recalls the St. Petersburg showing . . .



Mr. Holzworth (center) agrees...



Moses before Pharoah-Oil-17' 6" x 26' 6"-

#### DORÉ REGILDED

Second only to the fabled mislaying of the Statue of was the incongruous loss and recent rediscovery famous "Doré Collection" in the recesses of the Ma Storage & Warehouse Co. Exhumed with the canvas a tale worthy of Dumas. The financial and artistic fia ensued reduced contemporary art circles to pulp story The collection, comprised of some 85 drawings, e engravings, watercolors and oils, was mourned as the genius at the time of its disappearance. Reappearing century later it had, aside from the accompanying little to offer but garish curiosity value.

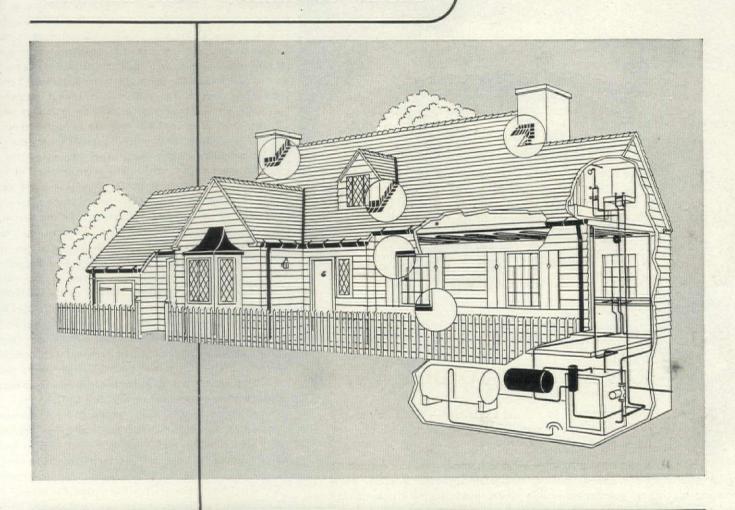
During the Victorian era, Alsatian-born Gustav Do probably the world's most prolific and widely know trator. At the time of his death he was credited wit 75,000 items. Most dusty, inaccessible bookshelves of American homes boast familiar classics illustrated by Among them are Tennyson's Idylls of the King, Inferno, Milton's Paradise Lost, Rabelais' Gargantu zac's Droll Stories, La Fontain's Fables, Perralt's Fairy not to mention the Bible. The last 15 years of Doré's life devoted to religious painting and a smattering of scu It was during this time, his "massive period," that he trated the outsize canvases unearthed last spring. The l Christ's Entry into Jerusalem, measures 20 x 30 ft.

In present day estimation Doré, as a painter, is cons regrettable, if at all. His color is bad, his taste wor composition painfully academic. But as a straight deli he still holds his own. He was endowed with an infa photographic eye. Nor is it difficult to perceive how an his peculiar brand of majesty and crawling realis inflamed the repressed Victorian consciousness. This realism was used to advantage in some of Doré's more nant and less ostentatious sketches of the sordid slum tions of his time.

Aside from the volume of his work, Doré, who died age of 51, was distinguished among painters for having e during his lifetime over a million and a half dollarsthe acclaim of most literate people. Victim of an Oe complex, he never married. He devoted his life to the of his mother, survived her by only two years and died because he had never been recognized as a great maste 1868, two years before his death, Doré sold the "lost" c

(Continued on page

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tion to Fairless & Beeforth, London art dealers, who s in a gallery on Bond Street where it was seen by 2,5 people. Oueen Victoria purchased several canvasses in 1892, the collection was shipped to America in th of its custodian, one Henry Heyman. It was exhibited York, Boston, Chicago and Philadelphia stirring up an ralleled emotional orgy. The Chicago Art Institute pac 16,000 people in one day-still an attendance record. S tors knelt before the paintings, prayed, confessed and Preachers were moved to deliver impromptu sermons exhibition halls. Suddenly, in 1898, the paintings were drawn and disappeared without trace or explanation.

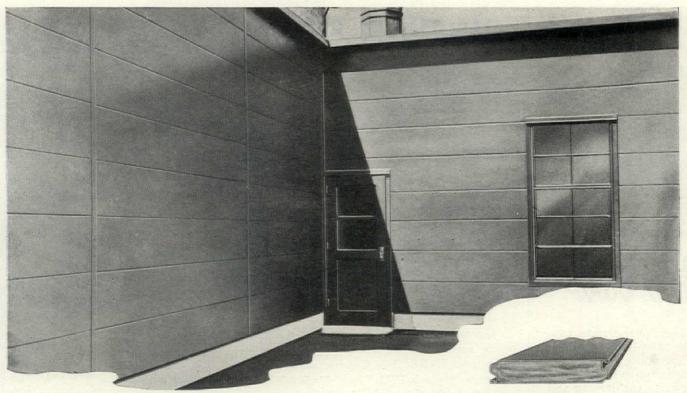
Had the Manhattan Storage Co. made known the pre of the paintings in their vaults at an earlier date, the je of contemporary art would have been deprived of the rewarding story of our time. As it happened, the ware records showed only a number of uninventoried cases store the name of the U.S. Art Import Co. (the connection, i between the mysterious custodian, Heyman, and this has never been ascertained). Bills had been prompt 1937; then, without a word, payments ceased and only a lapse of ten years were the cases opened. No one could been more dazzled than the officials of the Manhattar Investigation revealed only that the U.S. Art Import had out of business at the time of their default leaving ne heirs nor records and that the steamship company respon for importing the collection had likewise folded some 30 before. Nothing remained for the storage company by sell the paintings at public auction to defray their long st ing bill. The sale took place Sept. 9th, 1947.

Auctioneer Leon Kaliski, an established impressari curiosities, was dubious from the beginning. The collect had been valued at \$1,000,000 when last seen on public play. A tenth of this sum had been bid, and refused, f single painting, but even these figures failed to impress Kaliski. "Now, this Christ's Entry into Jerusalem," he s pushing up his glasses and leaning on the crude board fe surrounding a vast acreage of canvas that had been unro on the warehouse floor, "it's so big you can't tell whether will bring \$100 to \$10,000." As it turned out, the entire lection was sold to lawyer John M. Holzworth for \$12, The price, in Mr. Kaliski's opinion, wasn't too bad. The thing he hadn't bargained for was the fact that the bidder no bank account. This cloying detail might have gone un ticed for several days (giving Holzworth the opportunity for quick turnover on a cash basis) had not New York's Ho Shelton chosen the same day to clap a charge of petty larce on him for bad checks amounting to \$91.51. Fortunat for dramatic sequence, sufficient time elapsed between final bid and the firm grasp of the detective to permit He worth a fling at his favorite outlet-exhibitionism. At the e of the sale he had heartily proposed that: "anyone who l on the individual paintings can buy them from me for t same price they bid today."

"There," beamed auctioneer Kaliski, "is a gentleman Ironically, no bids were forthcoming. Unabashed, Ho worth left the warehouse to return two hours later arm in a with his only competitive bidder. Jointly, to the few pre stragglers present, they announced the plan for a vast museu to be built in the Yukon, house the Doré paintings, and brin culture to the denizens of the igloo.

Almost within that hour philanthropist Holzworth four himself being questioned by a New York magistrate onamong other things-what he intended to do with the Do

(Continued on page 12



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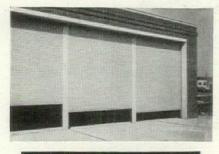
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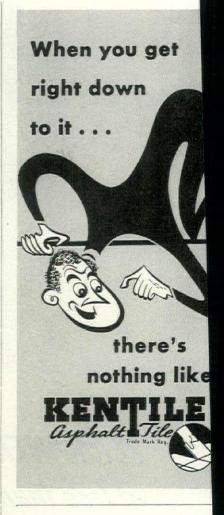
1640-60 Fields Ave. • Columbus 16, Ohio 1742 Yosemite Ave. • San Francisco 24, Calif. Offices and Agents in Principal Cities paintings. His prompt reply was that he was buying them for a St. Paul building contractor, Jim Foley, who was going to give four of the canvasses to the Basilica of St. Mary the Virgin in Minneapolis. (When reached later on, the contracting firm of Foley Bros., Inc., St. Paul, flatly denied the existance of any brother named Jim). Holzworth, acting as his own attorney, put on an impressive court scene, (though the judge repeatedly reminded him that it was only a hearing), finally produced the \$100 required bail and extricated himself from his surroundings, telling the magistrate that he had to be in Washington the next day to appear as counsel in a murder case dating back 16 years. Remarkably, this turned out to be so. However, as Holzworth was leaving the district court in Washington the following day, U. S. deputy marshals nabbed him on another charge involving a \$25 bad check. Wired Holzworth to the New York court: "ARRESTED FBI ANOTHER 25 PHONY CHARGE, GETTING BAIL. TAKING FIRST PLANE. REGRETS, THANKS COURTESY." Characteristically, he saw to it that the press was promptly informed of his latest status, also that he had failed to obtain the writ of habeus corpus which he had come to Washington to seek for his client.

As a patron of the arts, Holzworth is a newcomer, and one to be watched. He is, however, President of the National Association of Wild Life Conservationists. At one time he served as Assistant District Attorney of Westchester County and ran in the Congressional primaries on the Republican ticket. Aside from being a recognized authority on grizzly bears, Holzworth also claims to be an ex-heavyweight wrestling champion, author, explorer, big game hunter and motion picture pioneer. Considerable personal publicity has come his way through several previous brushes with the law in which he was acquitted on other bad check charges, fraud and disorderly conduct in picketing the Capitol. At one time he imported German jackrabbits on a large scale, claiming the American breed too sly for the average hunter. In 1933 he had the distinction of turning the Young Democratic Convention in Kansas city upside down by masquerading as the "lone delegate from Alaska" with forged credentials from the Governor. How he retained his listing in Who's Who until this issue is best explained by the editors of that eminent publica-

October 28th saw a more pensive but still genial Kaliski again presiding as auctioneer. This time, however, he permitted himself no personal speculation on the character of the bidders. Matters proceeded in a somewhat more orthodox manner. Seven of the most important canvasses went to San Francisco architect Albert F. Roller, designer of the new Los Angeles headquarters for the Rexall Drug Co., (Forum, Oct., '47) who had bid against agents representing Cecil B. DeMille and Charles Boyer. An increase of nearly \$500 over Holzworth's bid for the whole collection indicates that events established pretty clearly the market value of Doré's work. Considering the square footage of canvas acquired by Mr. Roller, the problem of hanging the paintings suggests an American Parthenon. Mr. Roller, however, is secretive, admitting only that they were bought for a private collection.

As we go to press, Holzworth, from a Washington jail, has instituted action to acquire the Doré collection which he considers rightfully and legally his. Also on file is a damage suit for false arrest claiming \$12,000,000, naming among other defendants Attorney General Clark and J. Edgar Hoover. Holzworth alleges his arrest prevented the completion of a deal whereby one of his numerous interests, the Yukon Engineering Co. was to have purchased 600 miles of the Alaska Highway.—M.S.

(Continued on page 130)





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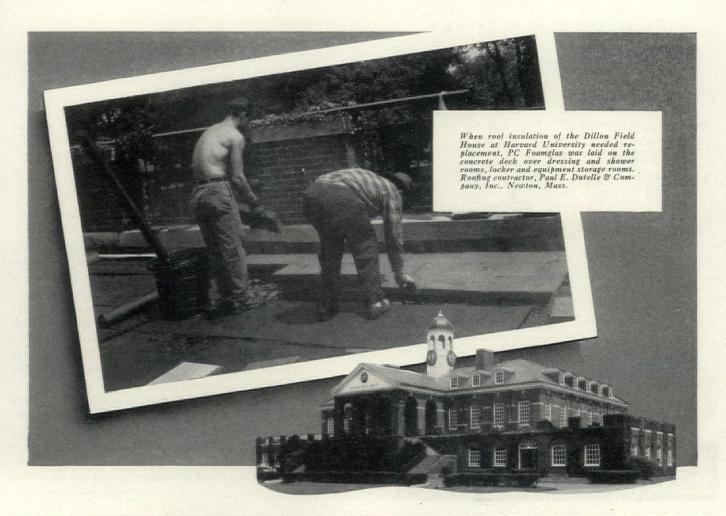
The Arts Work Together, an exhibition on view at the Mortimer Levitt Gallery, New York, through December 6th is an offering of which Director Verna Wear can be proud. Following, as it does, on the heels of the Bertha Schaeffer exhibit (Forum, Oct., '47), New Yorkers hopefully predict

Lionel Freedman, photo



Store facade by Nemeny, Geller, Rivera & Spivack

that more and more people will take seriously this business of closer collaboration between the arts. The Levitt show is the more ambitious and is not limited to houses alone. It is comprised of ten entries, some presented in sketch form, others as scale models, treating residential, commercial and industrial projects. The exhibit, which is the first of a series planned to stimulate the integration of the arts in building. features the work of top flight artists in their respective fields. Shown here is the model of a restaurant facade designed by architects George Nemeny and A. W. Geller, sculptor Jose de Rivera and mosaicist Max Spivak. Though mosaic is constantly gaining in popularity as a durable and easily maintained exterior building finish, in this instance the artist elected to use it inside the glazed entry. The striking sculptural abstraction above is finished in chromium. Typical of Devon Dennett's admirable craftsmanship, this particular model is outstanding. However, that of the El Panama Hotel courtyard runs a close second. Landscaped by Thomas D. Church to compliment and develop Ed Stone's handsome building, it features a (Continued on page 132)



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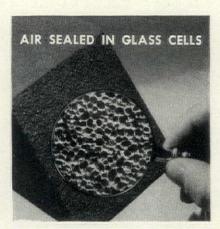
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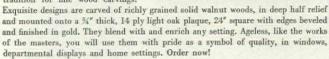
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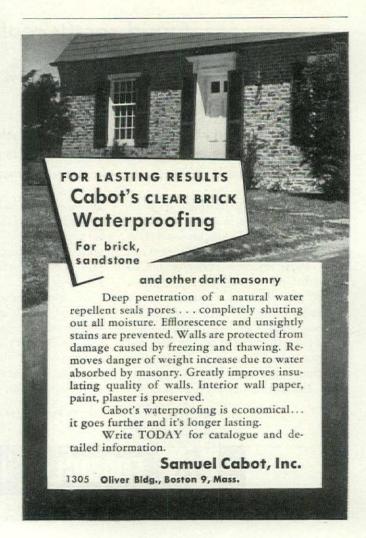
swimming pool with an island in the center which was in itself treated as a sculptural problem. Here, more Spivak mosaics are found as outdoor decorative elements. Other entries incdule a nursery school by Texas architects, Jessen, Jessen, Millhouse & Greeving in collaboration with sculptor Charles Umlauf; a divisible exhibition hall for an industrial plant administration building by Chicago architects Schweiker & Elting with murals by Rudolph Weisenborn; and a Cape Cod house by Boston architect Carl Koch also incorporating murals, this time designed by Frederick Wight.—M.S.

#### BOOKS

YOUR SOLAR HOUSE. Published by Simon & Schuster, 1230 Sixth Ave., New York 20, N. Y. 125 pp. Illustrated. 131/2 x 10. \$3.

Prepared with the cooperation and technical assistance of the Libbey-Owens-Ford Glass Co., this book presents perspectives and plans of one solar house for each state of the Union Accompanying text was written by the architects. It is stated in the introductory chapter that "the only limits placed on the designs were that they should be within the medium priced brackets . . . and that the houses should lift their faces to the sun through extensive windows, or even walls of glass, not only to enlist solar energy as an auxiliary heating plant but chiefly to unite the interiors with the out-of-doors in a spacious cheer-filled atmosphere." The result is a wide interpretation of the solar house ranging in quality from medium to good. For the sake of presentation all are shown in sketch form.

While the book presents an adequate and simplified outline to the theory underlying solar design, it is badly written and would be practically useless to an architect from a technical (Continued on page 134)



# BULL-UP BULL-UP ROOFS

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viewpoint. However, some pleasant houses are included and the book offers plenty of opportunities for quiet cribbing—M.S.

FLATS. By H. Kamenka. Crosby, Lockwood & Son, London, England. 137 pp. Illustrated. 10 x 71/2. 15/.

Though new and remodelled apartment buildings pepper our cities in greater concentration every day, until the appearance of Mr. Kamenka's book, this field has been sadly neglected by architectural writers for some time. In it the author, a specialist experienced in multiple dwelling design in Europe and America, analyzes apartment house development of the last 20 years in principal capitals of the western world. Though in American planning he does not cover the most recent and progressive ideas, his grasp of the situation until the outbreak of the war is entirely sound; likewise, his views on community planning, block design, etc. Photographs are excellent and the text neither too brief nor too padded to be a useful architectural reference work. The author, who has established his practice in New York, has arranged to have his book distributed through Brentano's and Barnes & Noble in that city.-M.S.

#### FOREIGN PERIODICALS

WERK. Technikumstrasse 81, Winterthur, Switzerland. One of the outstanding international monthlies printed in German with French and English translations. Was available throughout the war. Contains much significant architectural and artistic documentation. Annual rate: 40 (Swiss) fr.

ARCHITEKTURA CSR. Prague, Czechoslovakia. One of several Czech professional journals understandably preoccupied with national reconstruction problems. Most articles are borrowed from foreign periodicals. No English translations.



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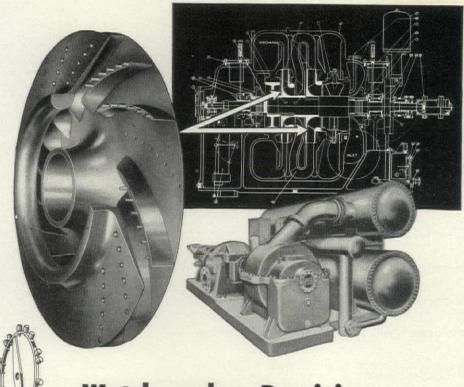
and waste — especially where automatic heating prevents rubbish-burning in the furnace. Burns wet or dry garbage and rubbish; downdraft action constantly dries the waste. Taps to flue in basement or utility room; does not affect heating plant. Holds about 3 bushels, and is only 2 ft. in diameter, less than 3 ft. high. Neat silver-and-blue duotone finish. Write for more details.

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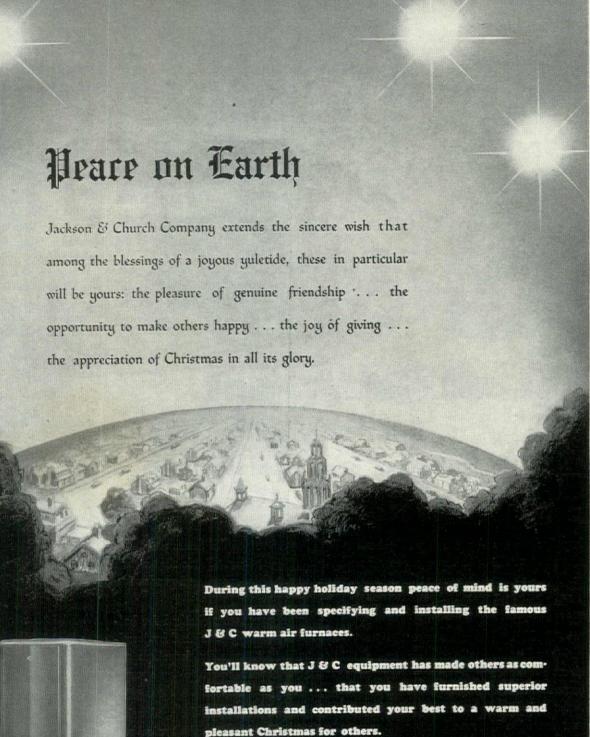
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#### **BUILDING REPORTER**

#### HOME HEATING UNITS incorporate Anthratube coal-burning principle to effect coal savings and convenience.

These two automatic, coal-fired boiler-burner units, a bin feed model manufactured by Axeman-Anderson and a hopper model by D.L.&W. Coal Co., utilize the Anthracite Institute's newly developed Anthratube coal-burning principle (BR 10/44) to achieve greater efficiency, economy and cleanliness. This Anthratube principle completely burns the coal in an exceptionally small combustion chamber by an induced draft. Tests in home installations have shown it to operate at 80 per cent efficiency (as compared with 50-65 per cent in standard equipment) with a result in coal savings of from 15 to 38 per cent. A fan or heat slinger swirls the hot flue gasses against the heat transmitting inner surfaces of the boiler to extract and utilize all available heat. Ashes are automatically discharged into a container and dust is prevented from seeping into the basement by the induced draft.

Axeman-Anderson's adaptation of the principle, designated as AA Anthratube, is a fully automatic boiler-burner which, in addition to heating a six to eight room house supplies year around domestic hot water. It utilizes an Archimedes screw to feed the pea-size hard coal directly from the bin into the unit. Thermostatic control automatically regulates temperatures as well as activating the fuel supply and ash removal. This new boiler-burner measures 24 in. wide, 31 in. deep by 42 in, high, has a capacity of 400 ft, of steam or 600 ft, of hot water and is easily installed. Rated output is 130,000 BTU's. D.L.&W. Coal Co.'s adaptation of the principle is an automatic hopper model which burns chestnut size coal. Only 27 in. wide and 47 in. high, the hopper has a storage capacity of 250 lbs. of coal, or sufficient capacity to heat a five to eight room house for three days during severe winter weather. In this unit, the fuel supply flows by gravity into the compact combustion chamber. The ash ejector automatically removes the ashes into a container large enough to handle the residue from one hopper filling. There are no grates to shake or burn out. Automatic electric controls do everything from feeding the fuel to removing the ashes. When there is no call for heat the unit automatically banks itself for as long as 15 days without attention. This automatic "blue coal" burner can be easily installed and furnishes an abundant supply of domestic hot water all year round.

Manufacturers: Axeman-Anderson Co., Williamsport, Pa., The D.L.&W. Coal Co., 120 Broadway, New York, N. Y.



Fitting into partition walls or closets of homes or apartments. the Royal Jet Flow is an efficient, low cost, closet type warm air furnace designed to maintain minimum temperature differentials from room-to-room and ceiling-to-floor. According to the manufacturer, the unit provides two-way heating: velocity circulation plus ceiling radiation. Through the use of a venturi principle, heat is delivered from registers placed just below the ceiling at a velocity of approximately 250 c.f.m. An adjustable baffle allows this warm air to be distributed simultaneously in any two or three directions and in any desired volume. Cold air is returned through a grille at the floor level creating a forced air action. The high hot air delivery also converts the ceilings into radiant panels which supplement the convected heat. Quietness of operation is assured by the elimination of mechanical parts plus the use of a Bunsen-type burner and a corrugated fire-box which is designed to avoid annoying contraction and expansion noises. Both

burner and pilot valve are equipped with safety-loc new A.G.A.-approved Jet Flow gas furnace comes sizes with ratings of 25,000, 38,000 and 55,000 BTU's, be equipped with thermostatic controls for automatic t ture regulation. Jet Flow can be inexpensively installed the floor and is concealed with a pre-cut covering exintake and outlet registers.

Manufacturer: Royal Heaters Inc., 1024 Westminst Alhambra, Calif.

#### EXTENDED SURFACE RADIATION for use where flowall space is limited.

Webster Type WI Extended Surface Radiation is d for steam and hot water heating in places where floor space is limited. Installing around walls, under work l



or in overhead locations pipe coils were formerly em it is particularly suitable in industrial plants, garage nasiums, warehouses, audite etc. In most installations a

row of the new radiation is reported to fully meet the l requirements. Webster Type WI Extended Surface tion is completely non-ferrous, being made up of sp annealed copper tubing, aluminum fins and brass lings. Tubing is 11/8 in. outside diameter, and .0 wall thickness. It is good for saturated steam pressu to 100 lbs. per sq. in. and temperatures up to 350°F, are made of .020 in, aluminum. They are 3 in, squar rounded corners and are rib-reinforced for strength. ardization is obtained through the use of only one tube ter and one fin size. Units are available in five lengths 2 ft. to 6 ft. inclusive. Specially designed brackets, adapters and perforated steel covers are also available. rating of Type WI Radiation, based on a single row w cover is 4.25 sq. ft. e.d.r. or 1,020 b.t.u. per lineal ft. 1 lb. steam and 65°F, entering air.

Manufacturer: Warren Webster & Co., Camden, N. J.

#### STEAM RADIATOR VALVE permits different tempera to be maintained in different rooms.

Easily adjusted to any temperature setting from 55° to the new Heat Timer Valve automatically controls the tem ture of each steam radiator on which it is installed. The

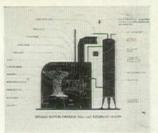


not only maintains the desired of heat but permits different temp tures to be maintained in varrooms to suit the preference of occupant. It provides, according the manufacturer, the flexibilit zone heating at low cost. In appance the new valve is slightly smathan the ordinary air vent whice replaces. It has etched on its cylinger than the ordinary air vent whice replaces.

cal side a scale of temperatures ranging from 55° to 80°. movable scale rotates around an indicator, can be positic at any desired temperature reading. In operation the v automatically discharges air when the temperature within room falls below the indicated setting. This allows steam enter the radiator until room temperature has reached desired degree of heat. At that point the thermostat with the valve keeps the vent closed. Steam is automatically wheld until a drop in room temperature again opens the v and the cycle is repeated. As no (Continued on page 1)









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steam feeds into the radiators when heat is not want consumption is said to be reduced to a minimum. The Timer Valve can be installed on any one-pipe steam costs about \$4.95.

Manufacturer: Heat Timer Corp., 160 Fifth Ave York, N. Y.

#### WOOD STRIP FLOORING SQUARE features att appearance and easy installation.

An attractive wood flooring square mounted on a pa heat-and moisture-resistant backing, Castle Square can be easily glued over existing floors, sub-floors or co

slabs. Each square measures 9 x 9 in., is made up of a number of kiln-dried oak strips, 1 in. wide by 1/4 in, thick, insulated on all 4 edges with a 1/14 in, latex-impregnated fiber strip and mounted on a backing of the same insulating material. Squares are laid at right angles with mastic glue and



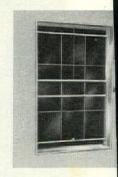
the job is finished off with a conventional wooden or strips of the new flooring. Surface is sanded and fi in the usual manner. According to the manufacturer, th material has several other noteworthy features. The impregnated fiber strips act as expansion joints, and in tion provide a non-skid safety factor. The end-waste i ting and matching of the flooring is exceptionally small, aging only about 4 per cent. Convenient packing in ca allows easy handling and storage. Castle Square flo comes in two grades: selected matched and selected matched and will be available shortly in 6 in. and squares. Cost of the new flooring is said to be approximately the same as oak flooring with appreciable savings in han

Manufacturer: Newcastle Industries, Inc., 300 West 56t New York, N. Y.

#### ALUMINUM DOUBLE HUNG WINDOW combines attra appearance, simple installation and easy cleaning.

Delivered completely assembled, the NuEra double aluminum window for residential use can be easily installed three operations. Extremely narrow muntins and he

polished plate glass provide maximum light and a trim appearance. A retractable jamb member allows easy removal of both sash for cleaning. Gears within the jamb, operated by a handle and pushbutton type lock, advance or retract this jamb member. The sash are centrally supported by a fine stainless steel cord which passes over a double pulley concealed in the head. Counterbalanced, they



operate together. Thus when the jamb member is advan or locked in place, the sash slide easily up and down. W completely retracted, they swing entirely free of the fra supported by the cord. Sash can be easily reversed cleaning from inside the room. According to the manuf turer, the sash are held tightly in place when the jamb tion is locked in position. When the window is locked clo there is said to be practically no infiltration of air. Nu window is made in standard sizes, comes equipped with plas grounds and shade brackets, trim, (Continued on page 1

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The economies and numerous other advantages of warm-air heating, which have won the preference of many architects and homeowners, are also obtained when modern warm-air systems are installed in comnercial buildings. For example, a Jackson & Church "PoweRated" Heater provides ample heat at low cost for the Recreation Center at Saginaw, Michigan. The unit, equipped with twenty Dust-Stop Air Filters, handles 11,000 cfm and provides four changes of air per hour.

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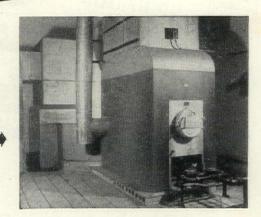
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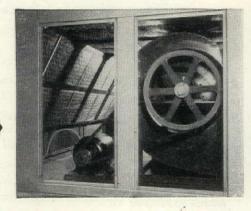
For complete information, see Sweet's Files or write: Owens-Corning Fiberglas Corporation, Dept. 830, Toledo 1, Ohio. Branches in principal cities.

In Canada: Fiberglas Canada Ltd., Toronto 1, Ontario

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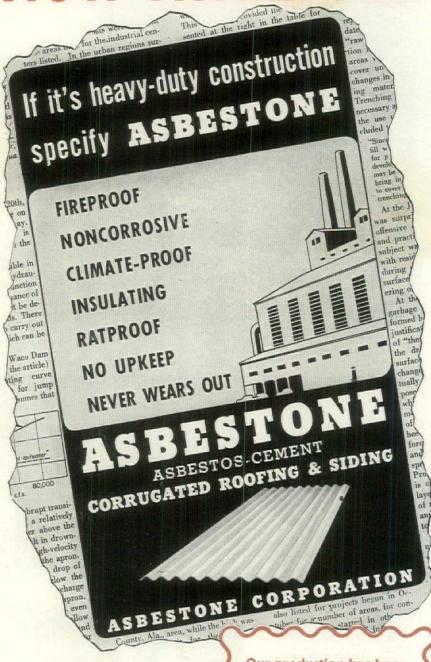


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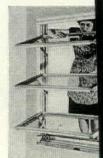
NEW ORLEANS 15, LA.

soffit and hardware. An integral lintel eliminates the separate support and no flashing is required over under sill. The three installation steps include: pla window in opening, bricking to frame and plastering Manufacturer: NuEra Window Co., 23001 Aurora Bedford, Ohio.

#### AWNING TYPE WINDOW provides no draft ventilat

Super-Vent Windows are easy-to-clean, awning type use in homes, apartments, commercial and institutions

ings. Composed of from one to five vents, depending on window height, vents open outward simultaneously, lock securely in any desired position. When raised vents deflect rain and heavy wind. Vents are operated by a handle at the window base, open to approximately 80° horizontally. According to the manufacturer, an important feature of the unit is the



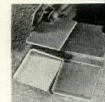
patented mechanism which permits cleaning of the water from inside the building. This allows the upper vent is to be lowered when open, permitting access to its englass. The newly-designed Super-Vent mechanism is so be simple and sturdy and to require little or no mainter Screens and storm sash install inside the windows.

Manufacturer: Super-Vent Co., 303 W. Monroe St., Ch.

#### PLASTIC WALL TILE is self-aligning.

This new plastic wall tile, 41/4 x 41/4 in., incorpora self-aligning lap joint for easier installation. On two si

features a tongue and groove type lap joint with a center notch that fits a dot lock in the adjacent tile. This dot lock secures each tile as it is set in correct vertical and horizontal alignment with surrounding tiles. Another advan-

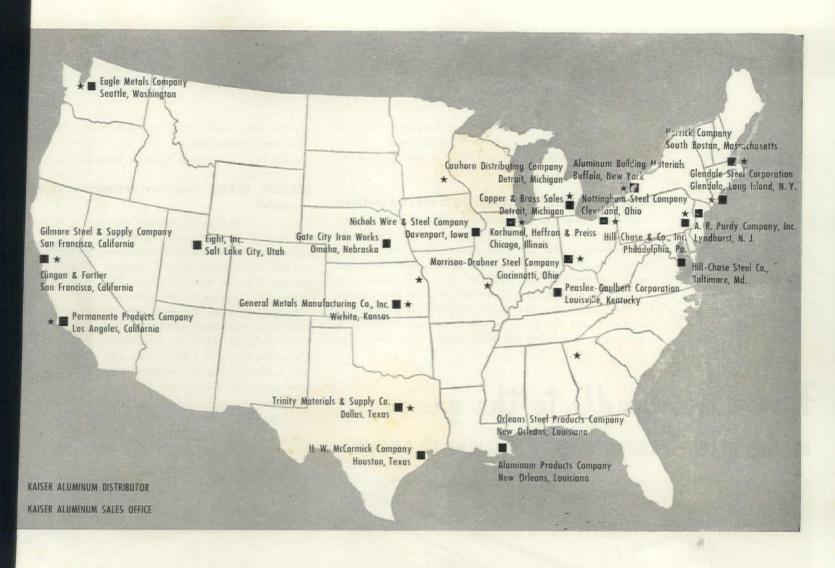


tage of the lap joint design is that it forms a complete pl wall surface under the joints which stops the mastic forcing through during installation. It also eliminates need for grouting joints. Tile comes in a choice of pla marbelized colors.

Manufacturer: Pittsburgh Tile Co., Terminal Building, burgh, Pa.

#### FIRE RETARDANT PAINT for exterior and interior offers appearance, durability and fire protection.

In addition to providing the durability and appearance of first grade paint, Resistall fire retardant paint offers comp fire protection to any combustible surface to which applied. It coats the surface with a tough protecting film is said to resist attacks of fire, weather, moisture, salt air water. Areas painted with it will not flash, flame or burn, washable and non-yellowing. Resistall comes in both ena and flat finish. Made with an alkyd synthetic resin base, it be reduced with any of the common thinners or tinted regular oil colors without impairing its fire retardant qualit It can be used for both prime or finish coats on wood, plas cement, metal, insulation board, etc., and is suitable for eit interior or exterior use. Application can be made by br or spray. Resistall sets up within 2 hrs. and dries in appro mately 24 hrs. Coverage is (Continued on page 1



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#### BUILDING REPORTER

approximately 400 to 450 sq. ft. per gal. Retail price is about \$7.95 per gal. for enamel finish, \$5.95 for flat finish. *Manufacturer:* Brytenu Chemical Mfg. Co., 408 Madison St., New York, N. Y.

#### INDUSTRIAL INTERIOR PAINT features one coat coverage.

Far-Mor-Lite, a new one-coat interior paint for use in factories, shops, offices, schools, hospitals, etc., is said to combine the best qualities of flat and gloss paints. Featuring one coat coverage, it eliminates the use of a primer, sealer or undercoat. With the high light reflective value of flat paint, it is reputed to stay clean as long as the highest grade gloss enamel. Far-Mor-Lite comes in two shades, blue-white for ceilings and upper walls and blue-green for lower walls and dadoes. It is furnished in both brush and spray consistencies and can be

applied with equally good results to wood, concrete, wall board, plaster, etc.

Manufacturer: Harrison Paint & Varnish Co., Cant

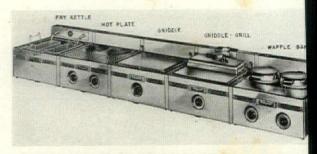
#### CONDUIT CLAMP facilitates installation of ele

This new clamp snaps on conduit and remains in place

ing both of the workman's hands free to place and install the conduit. A nail through its tailpiece section securely attaches it to the wall or ceiling. The fixture is reported to be extremely rugged, is cold pressed from .062 in. steel stock with dual reinforcing ribs, and is cadmium plated for appearance. The clamp fits ½ in. EMT or thin wall pipe conduit, or 3% in. standard pipe. Other sizes will follow shortly.



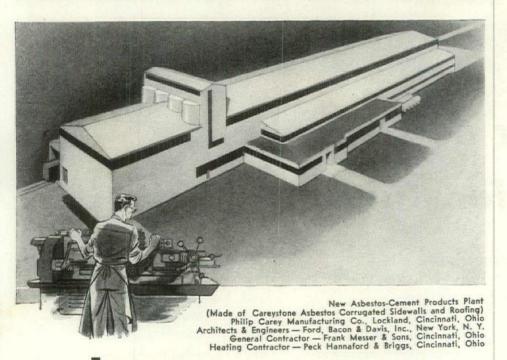
Manufacturer: Industrial Devices Inc., 22 State Road, water, N. J.



#### MATCHED COUNTER COOKING APPLIANCES permit m mum food production in minimum space.

Featuring five matched nickel-chromium automaticskettle, griddle, grill-griddle, waffle baker and hotplatenew line of electric cooking appliances is designed to incr the cooking capacity in drug stores and counter restaur by as much as 70 per cent. It permits a complete line of preparation units in only 71/2 ft. from end to end. Speci developed banking strips join the individual units together any number or sequence and screws at each corner of appliances permit individual leveling and alignment. units are identical in size (17 15/16 in, x 20 in, x 12 13 in.), all have a working surface height of 81/2 in. and a r back-splasher approximately 13 in, high. Heat controls recessed on the front of units to eliminate accidental turn off and on, and signal lights indicate when current is Conduit knockouts in back of the appliances permit mak either permanent installations with conduit or cord and p connections. The automatic fry-kettle, with a fat capacity 15 lbs., is said to have over 70 per cent greater frying capacity and approximately 75 per cent reduced operating time. features high speed Calrod heating units which imme directly into the fat. The automatic griddle with 212 sq. in. grid area is said to be three times faster than any previous model. A cast-in Calrod heating unit gives uniform tempe ture of the heating surface. The automatic grill-griddle, the preparation of combination dishes, features: double c iron grids, twin thermostats, variable temperature contr adjustable grid pressure and special splash guard. T double waffle baker with variable temperature controls p mits dialing for light, medium and dark waffles. It feature patented shake-out handles, a batter seal that minimizes over flow of batter and an overflow trough. The electric hotple consists of two high speed, 6 in. Calrod units located in t the rear with a ribbed landing deck (Continued on page 14

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For over 40 years, The Herman Nelson Corporation has been building quality heating and ventilating equipment for public, industrial and commercial buildings. Leading Architects, Engineers and Contractors, as well as Owners, know that the use of Herman Nelson Products will assure maintenance of desired air conditions.



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Since 1906 Manufacturers of Quality Heating & Ventilating Products

MOLINE, ILLINOIS



To those who cater to sports-loving America, good lighting has become a "must." They have proved to their own satisfaction that good lighting, fluorescent lighting by Leader, pays big dividends.

For bowling alleys, billiard parlors, or similar businesses that cater to public patronage, fluorescent lighting by Leader can do much to attract customers and to make their activities more enjoyable.

For home installations, too, such as basement or attic rumpus or game rooms, Leader fluorescent fixtures will add much to their charm and utility. For better lighting for better Look to Leader.

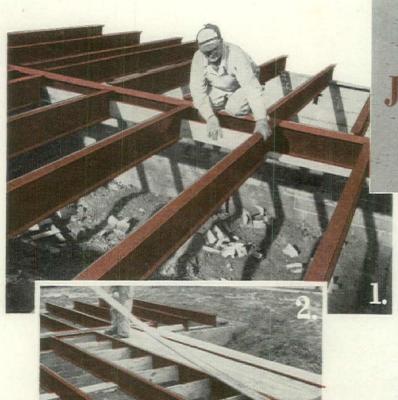
LEADER TROFFERLITE—TG-240.
An ideal fixture for use in remodeling or where a streamlined, modern effect is desired.
Strong, rigid construction permits ceiling to be hung from
unit.

Only better electrical wholesalers and contractors distribute and install Leader fixtures.

#### LEADER ELECTRIC COMPANY

3500 N. KEDZIE · CHICAGO 18, ILLINOIS

WEST COAST FACTORY . 2040 LIVINGSTON ST., OAKLAND 6, CALIF.





IMPORTANT: The wood spreaders and form boards can be salvaged for sheathing or reused as forms.

### Easy to install—Easy to sell J&L Steel Junior Beam Floor Rigid, Fireproof, Vermin proof

Your plans and methods can be quickly adapted to provide your houses with J&L Steel Junior Beam floors. Installation of this rigid, fireproof, vermin and termite proof, shrink-proof floor is simple and fast. It can be accomplished with a minimum of labor. Also you will save money by eliminating return calls by your contractor to repair plaster cracks, sagging doors, stuck windows and creaking floors.

Prospects quickly see the advantages of permanence, safety from fire, cleanliness, low maintenance and resulting economy provided by J&L Steel Junior Beam floors. They make your houses easier to sell and enhance your reputation as a builder.

J&L Junior Beams are immediately available (see below). Write for booklets "J&L Junior Beams for Residences," "Engineering Data" and "Nine Simple Steps" to help you in designing strong, permanent flooring that is easy to installmakes for quick sales.

- Main wide-flange carrying beam which will support bearing partition also supports Junior Beams on bottom flange. One inch wood spreaders are being placed to space Junior Beams properly.
- Form boards are being placed on wood spreaders which are cut to length so five form boards may be used without ripping. Duct openings are provided in form work. Depending upon the total live and dead load to be carried, Junior Beams can be spaced to accommodate 4, 5, or 6 form boards.
- Reinforcing rods have been clipped to top of Junior Beam. Form is complete and sills for carrying studs above first floor placed. Sills are used as screeds to level the concrete slab. Various types of finished floor may be used, such as carpet on pads, wood parquet, linoleum or mastic tile.

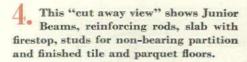
#### JONES & LAUGHLIN STEEL CORPORATION

PITTSBURGH 30. PA.

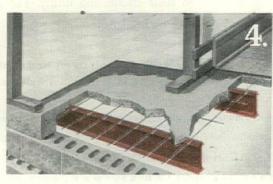
#### Immediate Delivery From Your Favorite Warehouse.

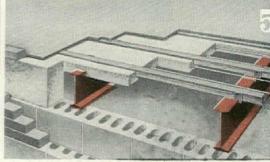
or . . . any of the following J&L Warehouses: Chicago . Cincinnati . Detroit Pittsburgh \* Memphis \* New Orleans \* Long Island City, N. Y. \*

\*Operated by Jones & Laughlin Steel Service, Inc.

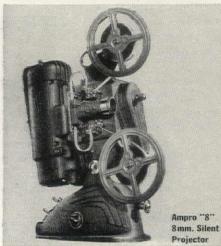


Shows how conventional hardwood flooring can be nailed to strips which were clipped to top of beam before concrete slab was poured.





# Amprosound "Premier-20" 16mm. Sound Projector







# the AMPRO line

# Precision Projectors of professional quality

The name "AMPRO" on any projector is your assurance of efficient operation . . . simplified, convenient controls . . . rugged construction . . . and long, satisfactory service.

Proof of this is in the remarkable performance record established by Ampro projectors during the past two decades in leading school systems, universities, top industrial concerns, churches, many branches of government service and in private homes all over the world.

The Ampro organization has the production and engineering facilities plus the practical experience to make some of the world's finest precision projectors. Before deciding on any projector—for any purpose—be sure to find out what Ampro has to offer you.

Ampro projectors are distributed through better photographic and department stores. Write for the name of your nearest Ampro dealer—and for full details on the Ampro Projectors in which you are interested.

THE AMPRO CORPORATION
2835 N. Western Ave., Chicago 18, III.
A General Precision Equipment Corporation Subsidiary







#### BUILDING REPORTER

at the front. Standard accessories for the line include the patented banking strips, variable sized wire mesh fry baskets and cord and plug assemblies. Rated wattages for the fry kettle, griddle, grill-griddle, waffle baker and hot plate are 4.5 kw, 3 kw, 4.5 kw, 1.65 kw, and 2.5 kw respectively.

Manufacturer: Hotpoint Inc., 5600 W. Taylor St., Chicago, Ill.

#### WALL-MOUNTED DISPENSERS for hand lotion and powdered soap deliver measured quantity without waste.

These new Bobrick Dispensers, Model No. 85 for hand lotion and Model No. 50 for powdered soap, are designed to dispense a measured amount of their respective product quickly, cleanly and conveniently. Wall-mounted in wash rooms and powder rooms of hotels, filling stations, shops, factories, homes, etc., the lotion dispenser delivers a measured quantity of protective or germicidal lotion without waste or n dispenses any brand of lotion, does not drip, clog of Model No. 85 is styled with a plastic body and matchin globe, has stainless steel working parts. The Kitche Dispenser, Model No. 50, handles any kind of powdered granulated, bead, pumice or even small flake soap or o An enameled steel unit, 8 in. x 434 in. x 27/8 in., it has a capacity and can be mounted in the kitchen, batl laundry, etc. A single press of the plunger revolves an ir paddle which dispenses a measured amount of soap, paddle also moves an agitator which prevents the soar packing. Both dispensers, according to the manufacture can be attached to the wall for home use with plastic adl Manufacturer: Bobrick Manufacturing Corp., 1839 Ave., Los Angeles, Calif.

#### PLANNING KIT for the prospective home builder.

With the House Planitect the prospective home builde

work out his ideas on paper in accurate proportions before engaging an architect. He has only to cut out a set of rooms from any of seven cardboard working



sheets, arrange them to his taste and paste them on a plotting sheet. Planitect consists of a book of instruction house plans, four layout sheets and seven working sheets. latter include scaled plans of many size rooms and other used in floor planning such as porches, walks, garages, d windows, furniture, etc. All drawings are 1/4 in. scale automatically make allowance for walls. House Plan sells for \$2.

Manufacturer: Planitect Co., 539 Magazine St., New Orle

#### LADDER HOIST facilitates handling of building mater

A new piece of equipment for lifting building supplies to

second floor or to any height up to 40 ft., the Lad-E-Vator hoist is designed for fast, easy, safe handling of loose, flat or roll materials. It is said to carry loads up to 500 lbs. and to travel up to 80 ft. per minute. The Lad-E-Vator hoist consists primarily of a loading platform mounted on four wheels, two aluminum ladderlike tracks and a small gasoline or electric motor. Con-



trolled by an operator on the ground, the loading platfe travels up the ladder-like tracks to the top where the tracks curve over the landing to deliver the load inside the worki area. Tracks come in 12 to 25 ft. lengths. Two sections track can be used to extend the hoist to needed height. Manufacturer: The Campbell Equipment Co., 6643 Rid Ave., Chicago, Ill.

#### STAIR SCALE saves time in stair planning.

This time-saving device combines 10 important scales accurately spacing stair risers and treads, rafters, stud joists, etc. without lifting or sliding the instrument from t drawing. In addition it provides an accurate architec scale and a quick, precise calculator for computing all facto in stair planning. Scales are calibrated 1/8 in., 1/4 in., and in. to the ft. Over-all size of the device is 31/2 in. x 10 in. Manufacturer: Rapidesign, Inc., 111-B South Orange Ave (Technical Literature on page 152 Glendale, Calif.



Easy does it

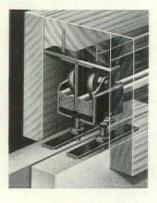
Same bedroom with single hinged closet door and with parallel sliding doors. Direct access to either half of closet is possible as each sliding door opens to opposite side of door frame. Note added floor space available with sliding doors.

Getting in and out of a clothes closet can be a difficult trick when there's only one door. it's no trick at all when you install parallel sliding doors the full width of the closet, each door slid-ing open to permit direct access to the entire closet space behind it. There's no fuss, no muss, no bother . . . just slide open either door and step straight in!

And there's an important plus advantage to sliding doors—no floor space wasted by the swinging arc of hinged doors. Furniture, lighting fixtures, rugs and pictures can be conveniently and correctly placed without getting "behind a door."

#### SPECIFY R-W SLIDING DOOR HANGERS AND WOOD LINED TRACK

Sliding doors installed with quiet, smooth, trouble-free Richards-Wilcox No. 719 Sliding Door ble-free Richards-Wilcox No. 719 Sliding Door Hangers and Wood Lined Track can simplify home planning, provide more usable floor space and make living easier. Get all the facts...cal yournearest R-W office. Free consultation available Get all the facts.



R-W No. 719 Sliding House Door Hanger and Wood Lined Track, showing application of hangers and track to doors and header.













**Architects** prefer stainless steel because it is a proven functional material in the modern style. Low coefficient of expansion and contraction eliminates expansion joints . . . permits greater freedom in design. Stainless steel is beautiful . . . everlasting . . . and available right now.

Builders prefer stainless steel because its instant eye appeal and permanent beauty make a better, more salable product. Corrosion-proof stainless steel gutter, downspout, conductor pipe and flashing is light, bright, water-tight.... never needs replacement....can be erected with or without paint. And stainless steel is available right now.

Home Owners prefer stainless steel because it is more attractive....permanent ....reduces upkeep....does not stain painted, stucco, masonry or brick walls and surfaces. Building need not be delayed because stainless steel is available right now. Full details upon request. Write

#### SHARON STEEL CORPORATION

Sharon, Pennsylvania



PRODUCTS OF SHARON STEEL CORPORATION AND SUBSIDIARIES: THE NILES ROLLING MILL COMPANY, NILES, OHIO; DETROIT TUBE AND STEEL COMPANY, DETROIT, MICHIGAN; BRAINARD STEEL DIVISION, WARREN, OHIO; SHARONSTEEL PRODUCTS COMPANY, DETROIT, MICHIGAN, AND FARRELL, PENNSYL-VANIA. Hot and Cold Rolled Stainless Strip Steel — Alloy Strip Steel — High Carbon Strip Steel — Galvanite Special Coated Products — Cooperage Hoop — Detroit Seamless Steel Tubing — Seamless Steel Tubing in Alloy and Carbon Grades for Mechanical, Pressure and Aircraft Applications — Electrical Steel Sheets — Hot Rolled Annealed and Deoxidized Sheets — Galvanized Sheets — Enameling Grade Steel — Welded Tubing — Galvanized and Fabricated Steel Strip — Steel Strapping, Tools and Accessories.

DISTRICT SALES OFFICES: Chicago, Ill., Cincinnati, O., Cleveland, O., Dayton, O., Detroit, Mich., Indianapolis, Ind., New York, N. Y., Philadelphia, Pa., Rochester, N. Y.,
Los Angeles, Calif., San Francisco, Calif., St. Louis, Mo., Montreal, Que., Toronto, Ont.



in the Detroit building industry, has used Bruce Finished Floors in more than 1200 units since 1939.

He writes: "Our records, covering eight years' experience with Bruce Finished Floors, show that elimination of the sanding and finishing operations required with old-type strip flooring has saved us an average of \$30 to \$35 and three working days per unit.

"These savings, combined with the almost unanimous enthusiasm of our buyers and tenants for the exceptional beauty and wearing qualities of the finish, have convinced us that Bruce Finished Flooring is the outstanding flooring in the market today."

All over the country, many leading operative builders like Mr. Durbin are having similar experiences. They're discovering, just as he did, that Bruce Finished Floors are best because they eliminate unnecessary costs and give the buyer a more beautiful floor with a superior, long-lasting finish.

#### E. L. BRUCE CO.

Memphis, Tennessee World's Largest Maker of Hardwood Floors

#### Merle W. Hogan, Architect for Durbin homes, writes:

"Bruce Finished Flooring was first specified by me in 1939 for use in homes built by Harry J. Durbin. Since that time I have specified it for hundreds of clients and observed how it withstood years of use.

"I am sure Bruce Finished Flooring provides a better floor for residential use than ordinary flooring. It provides a pleasing pattern and a fine finish which is easily cleaned and maintained.

"I have also found that Bruce Finished Flooring actually costs less and saves time during construction."

Yours very truly,

MERLE W. HOGAN,



BRUCE FINISHED FLOORS



Now you can free your doorways of BULKITIS in the "door closer corner!"

NEW YALE COMPACT DOOR CLOSER has been voted the world's most beautiful closer

You've always hated the door closer corner — for there has never been an attractive door closer. They've all had bulkitis — which means too big, too bulgy, too clumsy — ugly!

Now comes the Yale Compact Door Closer — the one that architects from coast to coast have voted the world's most beautiful door closer. A new operating structure — rotary piston checking — makes possible an equally powerful, yet 36% smaller door closer — without bulgy "hips". Closing is controlled over the full closing swing,

two-speed adjustment at the latch.

It's a door closer to make any door proud. Brackets, too, are handsome. Priced no higher than ordinary closers with bulkitis—it is your answer to the door closer problem.

FREE: Data Sheets and 4-Page Folder illustrating simple operating method, leakproof feature, famous Yale workmanship, "hold-open" device, etc. "Quality Checking Chart" proves Yale Compact Door Closer leads all other makes on 17 quality points. Mail coupon now.



More Beauty . . . Smaller Size Smoother Action . . . Same Price

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Yale Compa	ct Door	Closer.				1
Name			*************	***********		

#### TECHNICAL LITERATURE



BROADCAST TRANSMITTER BUILDINGS. Western Electric Oscillator, No. 9, September 1947. Western Electric Co., 195 Broadway, New York, N. Y. 68 pp. 81/2 in. x 111/2 in.

This special issue of the Western Electric Oscillator presents a complete treatise on the architectural aspects of broadcast transmitter buildings. Prepared to aid broadcasters construct a transmitter building that will be an efficient part of the technical operation, this guide assembles in compact form a wealth of information on the basic principles that underlie the design of practical, efficient transmitter buildings. Contents are divided into five parts. Section I, "Building the Home for Your Broadcast Transmitter," includes a step-by-step discussion of site selection, layout of the buildings With A Future," features six original designs by architects Deigert

and Yerkes. "A Survey Study of 610 Broadcast Tra Buildings" gives a detailed picture of the American mitter building, based on replies to a questionnaire dis to the broadcast industry. "Six Outstanding Build Today" presents buildings in use by broadcast station 250 w. to 50 kw., with floor plans, and interior and photographs. Section V, "The Face of the American mitter Building" illustrates the exteriors of 24 at structures of varied style, location and size.

CONCRETE HOUSES. On-The-Site Monolithic Const. R. G. LeTourneau, Inc., Longview, Tex. 8 pp. 8% in. x

The main features of Tournalayer-built concrete he design possibilities, speed of erection and low cost—ar in this folder. The basic monolithic units produced Tournalayer, the mobile machine that lays the hous various ways these units can be combined to provide homes are illustrated and described. Another section cusses the operation of the Tournalayer, how the hopoured, carried to the site and positioned.

CONCRETE ROOFS. Zonolite Short Span Structural Roof Universal Zonolite Insulation Co., 135 S. La Salle St., Chica 4 pp. 8½ in. x 11 in.

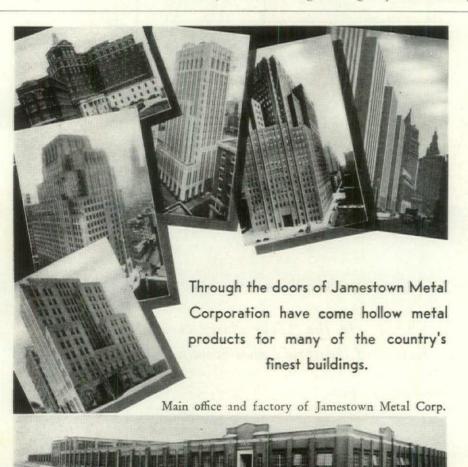
This pamphlet illustrates and describes typical Zonolite span structural roof deck installations and discusses many advantages. These roof decks are made up of Zon Insulating Concrete poured monolithically over paper-based welded wire mesh, ribbed metal lath or other supported forms, and properly reinforced to provide a permanent, weight, fireproof roof deck. Specifications for Zonolite lating Concrete as used in structural roof decks are included.

BUILDING AND MAINTENANCE MATERIALS. Mainta Buildings with Sonneborn "Building Savers." Building Prod Div., L. Sonneborn Sons, Inc., 88 Lexington Ave., New Y N. Y. 16 pp. 81/2 in. x 11 in.

Designed to aid maintenance engineers and contractor product selection for all types of commercial, industrial residential buildings, this condensed catalog describes So born "Building Savers" for construction and maintena The advantages and recommended uses of various floor transments, concrete and mortar admixtures, waterproofing damproofing products, paints and protective coatings, caing compounds, roof coatings and waxes are presented al with coverage figures, packaging data and, in seven instances, brief application suggestions.

WINDOWS. Hope's Lok'd Bar Steel Sash, Revised Sept. 1 Hope's Windows Inc., Jamestown, N. Y. 28 pp. 8% in. x 111/4

Design and construction features of Lok'd Bar Steel Factors Sash are fully illustrated and explained in this brochu Dimensions and physical data are shown by full scale of grams including the sections of frames, muntins and mulliof and details of pivoted and projected ventilators. Installating details show application to brick and plaster, concrete a structural steel construction. Size range is shown by diagratic giving width and height of sash, number of lights and ventitors in standard sash. Window opening dimensions are tablated and hardware details illustrated. Also included is page of suggested layouts for bays, two pages of Lok'd B Steel Sash for interior partitions and a page of security windows. A wide variety of installations in industrial builtings are also featured. (Continued on page 15)



5 ACRES OF ONE-FLOOR FACTORY

designed for straight line, efficient production

As specialists in the fabrication of bronze, aluminum,

steel and stainless steel, we offer our services wherever

bollow metal doors, interior trim, elevator enclosures,

office partitions, cold rolled mouldings and metal

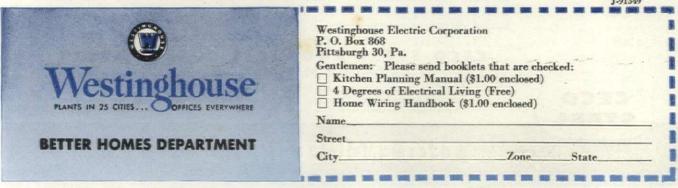
specialties are required.



materials are included for each design. Four pages of details are given, showing location of doors and windows to assure clearance of kitchen equipment, furring above cabinets, etc.

Efficient methods of lighting and ventilating

sions and brief specifications. The most unique and practical design book ever produced on kitchen planning. Costs \$1.00. Other booklets that may help you are "4 Degrees of Electrical Living" (Free), and "Home Wiring Handbook" (\$1.00).





### Concrete Joist Construction?

Because Today's Costs are NOT Out of Line . . .

Because, strength and durability considered, concrete joist construction is the most economical way to build . . .

In these days of high costs, economy in building is important, provided strength and durability are not sacrificed. Here is where concrete joist construction comes in—since it provides rigid, strong, sound-proof buildings which are fire resistive, yet construction cost is lower. That is because the amount of concrete and, consequently, the dead load, are kept to a minimum for any span or live load. The concrete joist and monolithic top slab are formed with cores of removable Meyer steelforms, supported on skeleton centering. Once the concrete has set, the forms are removed and re-used from floor to floor and from job to job. Therefore, a nominal rental charge can be made for each use. Construction is speeded up.

#### WHY SPECIFY CECO?

Ceco originated the removable steelform method of concrete joist construction. The company is first in the field—actually providing more services than all competitors combined. So, when concrete joist construction fits your need, call on Ceco, the leader over all. Thirty-five years of experience in the field, on the job, have given Ceco a sure grasp of all concrete joist construction problems. This fund of knowledge is yours to command, in 23 strategically located offices from coast to coast.

#### CECO STEEL PRODUCTS CORPORATION

General Offices: 5701 W. 26th St., Chicago 50, Illinois

Offices, warehouses and fabricating plants in principal cities

Other Ceco Products Include—Reinforcing Steel, Welded Wire Fabric, Steel Joists and Roof Deck,
Metal Windows and Doors, Metal Frame Screens, Aluminum Storm Windows, Metal Lath and Accessories

In construction products CECO ENGINEERING makes the big difference

CECO

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# ORGAN INSTALLATION...



Organs

And THEIR INSTALLATION

THERE IS NO SUBSTITUTE FOR TRUE CHURCH TO

THE WURLITZER ORGAN SERIES 20 TWO MANU

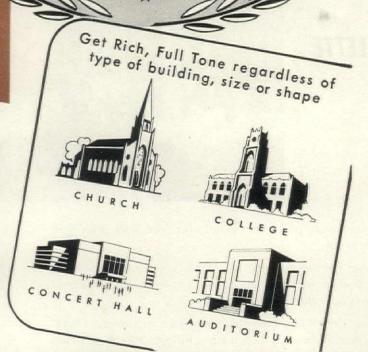
consider simplification of ACOUSTICS...then specify the ...

#### WURLITZER ORGAN

Series 20 Two-Manual

• There is no more important factor in organ installation than the problem of acoustics. Poor acoustics can impair the beauty of the finest organ music. Proper acoustics can make the message of religious or inspirational music doubly effective.

The Wurlitzer Organ with its amazing flexibility will completely meet each problem and solve it. To assist you in planning for the finest results, the Wurlitzer Organ Service Technician at your nearest Wurlitzer Dealer, in cooperation with a Factory expert, will gladly discuss the installation and recommend the ideal method by which you will achieve the finest results. Organ Division, The Rudolph Wurlitzer Co., North Tonawanda, N. Y.



equipment; installation requirements and techniques

THE RUDOLPH WURLITZER CO. N. Tonawanda, N. Y., Dept. FO-12



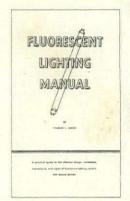
Gentlemen:

Please send me, without obligation, your 16-page Reference Manual . . . "Important Facts On Organs And Their Installation."

Name.....

Address....Zone...State.....

#### TECHNICAL LITERATURE



**LIGHTING.** Fluorescent Lighting Manual, Second Edition by Charles L. Amick. McGraw Hill Book Co., 330 W. 42nd St., New York. 318 pp. 63% in. x 91/4 in. Price \$4.00.

A practical guide to the effective design, installation, maintenance and repair of fluorescent lighting systems, this second edition of "Fluorescent Lighting Manual" is a complete reference manual for solving the various problems of modern fluorescent lighting practice. The book emphasizes practical design, installation and servicing procedures, shows methods of calculating illuminating requirements and provides helpful guidance for the correct maintenance and repair of fluorescent lighting equipment. Thoroughly revised in line with the latest advances, it includes information on new types and sizes of fluorescent lamps, auxiliary equipment improvements and recent lighting techniques. Typical of the new material is

data on Slimline and Circline lamps, full explanation glare rating system, discussion of the acceptability lamp installations, etc. Many tables, charts and photoamply illustrate the text.

ELECTRICAL WIRING. Q-Floor Wiring Data Manual. Electric Co., Advertising Div., Appliance and Merchandis 1285 Boston Ave., Bridgeport 2, Conn. 106 pp. 8¾ in. x 11 This data manual describing General Electric Q-Floor opens with a general description of Robertson Q-Floor

the GE fittings and accessories necessary to utilize the of the floor as raceways for electrical conductors. Succeedings contain detailed descriptions of these fittin accessories and data pertaining to layout design and it tion. The concluding 61 pages are devoted to dime drawings and photographs taken during installat Q-Floors.

RADIANT HEATING. What We Have Learned From Radiant Heating Installations. A. M. Byers Co., Clark Pittsburgh, Pa. 12 pp. 51/4 in. x 7 ¾ in.

To give a cross-section view of trends and engineering ences in methods and materials and the limitless var applications for radiant heating, this booklet presents of a study of 1,000 radiant heating installations. The findings show "45 of the 48 states now have radiant himstallations... Ohio leads with 16 per cent of the tot Radiant heating has its biggest market in the resided ... 93 per cent of the installations use floor type relating coils exclusively ... In more than 90 per cent projects ... coils were embedded in concrete floors ... story buildings make up 73 per cent of the installation Coil types in several hundred installations showed sincoils in 55 per cent of the structures, and grid coils in 4 cent ... Over 90 per cent of the projects ... used Wrought Iron Pipe."

HEATING. Rempe Engineering Data Book. Rempe Co., 3
Sacramento Blvd., Chicago, III. 34 pp. 8½ in. x 11 in. Price

Prepared especially for engineers and draftsmen as a in the design of pipe coils and fin coils, this engineering book provides complete and easily accessible inform necessary for laying out pipe and fin coils for heating cooling applications. It treats heat transfer "K" factor all ranges of heating and cooling from minus 60° to 350°F, gives recommended air velocities and fin spacing fin coils and shows in detail how to calculate and design and fin coils for all generally encountered heating and coo loads. Besides reference and design sections for both and fin coils, the book covers such subjects as inspec testing and finishing of coils, calculation of heating cooling coils and methods of computing fin coil surfaces also includes information on the application of coils to ticular types of heating and cooling units and the proper of saturated steam. The manual is fully illustrated, has n pages of reference and design tables.

HEATING. Trane Presents Eight Pages of Heating Produ The Trane Co., La Crosse, Wis. 8 pp. 81/2 in. x 11 in.

This pamphlet offers a brief summary of the following Tr products: heating coils for steam or hot water jobs; type convector-radiators; unit heaters; roof ventilators; wall heater; valves and traps; hot water products such as circulators, flo fittings, etc.; Trane fan line; the new Trane wentilator and air conditioning products. Representative ite are illustrated and their outstanding features and uses discussed.

(Continued on page 1)

**Design your Interiors** 

with this

MASTER'S

PALETTE



ORIGINALITY is at your pencil-point when you work with USP decorative materials.

Whatever the requirements . . . formal or informal, traditional or modern, brilliant or subdued . . . you can create a masterpiece of interior beauty with this figurative palette.

Designer Don Wells offers this suggestion: an arresting Checkwood dado, most of the walls sheer-hung in Rift Oak *Flexwood*, pillars and occasional wall panels highlighted in "Vintage" Flexglass.

This illustration of the "Vintage Room," Ambassador Hotel, Kansas City, Mo., gives you an idea of the finished result.

"Vintage," "Mimosa" and "Clusters" add new spice to the Flexglass line. Striking designs by Muller-Barringer are fired on the underside of the glass in rich ceramic colors. Three stock patterns available immediately. In addition, you can now order Flexglass in patterns of your own design at slight additional cost.

Don't fail to get complete information.

#### UNITED STATES PLYWOOD CORPORATION

Dept. F, 55 West 44th Street, New York 18, N. Y.

Flexwood and Flexglass are manufactured and marketed jointly by United States Plywood Corporation and The Mengel Company.

# More Room and Better Living with AMERICAN-Standard



# Holiday Warmth

There are no cold spots in this attractive living room, despite its big picture window. The inconspicuous new Baseboard Radiant Panels provide sun-like warmth from floor to ceiling throughout the room. Only 8 inches high, they fit snugly against the wall, look exactly like the baseboard, and can be painted any color to match the wood trim. Give full use of wall and floor space.



#### Cheery and Convenient

Every day's a holiday in this cleverly planned kitchen, thanks to the ease with which American-Standard's gleaming Royal Hostess Sink fits into the continuous counter-top arrangement. Designed for maximum cleanliness and convenience, this double-compartment, double-drainboard model is made in one piece of rigid cast iron finished with a heavy coating of acid-resisting enamel. In white and choice of many colors.



■ In the American-Standard line, you will find heating equipment and plumbing fixtures that are styled, designed and engineered to fit in with, and enhance, any architectural plan or decorative scheme. American-Standard Products are as fine as money can buy, yet they cost no more than others. For modernization, they can be purchased on a convenient Time Payment Plan. Contact your Heating and Plumbing Contractor for details. American Radiator & Standard Sanitary Corporation, P. O. Box 1226, Pittsburgh 30, Pennsylvania.

... Serving the Nations' Health and Comfort ......

LOOK FOR THIS MARK OF MERIT—It identifies the world's largest line of Heating and Plumbing Products for every use . . . including Boilers, Warm Air Furnaces, Winter Air Conditioners, for all fuels—Water Heaters—Radiators, Convectors, Enclosures—Gas and Oil Burners—Heating Accessories—Bathtubs, Water Closets, Lavatories, Kitchen Sinks, Laundry Trays, Brass Trim—and specialized products for Hospitals, Hotels, Schools, Ships and Railroads.

New Los Angeles Airport now ready for heaviest air and foot traffic . . .

#### 100,000 sq. ft. of tough TILE-TEX\* used in buildings of modern air center

Air traffic will be heavy at Los Angeles' bustling new airport! But patrons of six major airlines are assured of better, faster ticket and baggage service—more comfortable "between flight" facilities await them—in these carefully designed, modern air terminals.

Yes, and even the floors are ready—come what may as more and more of today's travelers take to the air! For Architect N. M. Cirino specified tough, versatile, immensely practical Tile-Tex Asphalt Tile for the passenger terminals and the administration building!

That's easy to understand—because Tile-Tex easily fills the exacting requirements for a "public" floor. It's so tough it lasts for years under the hardest use imaginable! Is low in first cost-costs less and less as time goes on-doesn't require elaborate maintenance! Available now in a rich group of colors and design accessories to assure architects of providing the right floor for every installation.

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One of three new passenger terminals at the Los Angeles Airport. All floor areas are surfaced with foot-easy Tile-Tex Asphalt Tile.



The new Los Angeles Airport was designed by N. M. Cirino, Architect for the Bureau of Engineering, City of Los Angeles. Notice (above) how all the facilities for handling busy air travelers have been compactly arranged for maximum customer convenience. Notice, too, that the brown Tile-Tex floor is marbleized so dust is less noticeable, maintenance is cut to a

Comfortably resilient Tile-Tex and the acoustical ceiling team up (left) to lessen noise and confusion in this busy terminal.

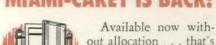




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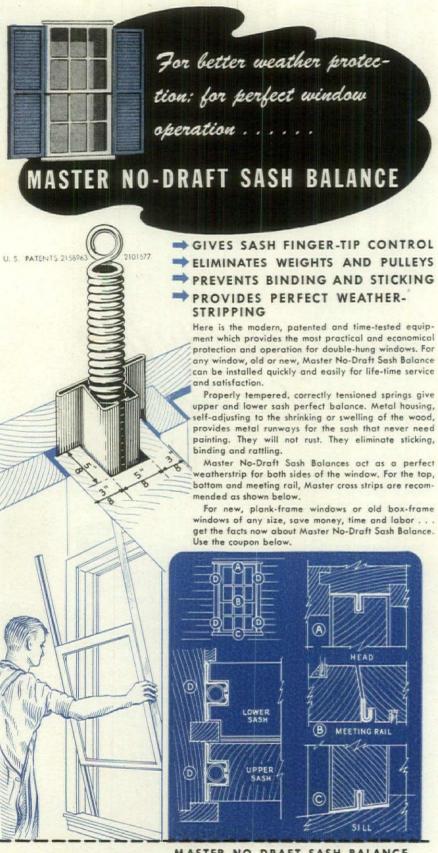
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BATHROOM PLANS. Modern Bathroom Plans. Plumbir Heating Industries Bureau, 35 East Wacker Drive, Chicago 15 pp. 31/8 in. x 81/2 in. Price 10 cents.

Devoted exclusively to the planning and arrangeme bathrooms and powder rooms, this booklet presents 34 of such rooms designed for convenience, safety and u ness. The plans were developed to serve a three-fold pu for the prospective homeowner or modernizer: suggest plans for family bathrooms; show economical combina of rooms and fixtures and indicate how it is possible to o bathroom efficiency in minimum areas. Plans, scaled 1/4 the ft., are divided into the following categories: family rooms, compact bathrooms, minimum bathrooms, compar arrangements, powder rooms and combinations.

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PAUL A. WILHELM, architect, 1010 East Washington Lane, P delphia, Pa., requests literature and information on materials equipment related to hospitals and housing that are readily avail in that area.

R. L. Zerwer, 7234 Woodley Ave., Van Nuys, Calif., seeks infor tion on inexpensive theater construction for neighborhood the with seating capacity of 600.

#### REQUESTS FOR LITERATURE

PAUL H. AYER, architect, 327 Moronet Building, Bakersfield, C. J. F. Brown, Associated Architects-Engineers, Les Alamos,

COLEMAN & COLEMAN, architects, P.O. Box 212, Landisville, Pa. COLUMBUS TECHNICAL SCHOOL, 106 W. 63rd St., New York, N.

I. Gelb, architectural student, No. 1, Hall Road, Sea Point, Ca town, South Africa. Frank Grad & Sons, architects and engineers, 1633 Connection

Ave., N.W. Washington, D. C. FRED W. GUINN, draftsman, 900 Branard St., Houston, Tex.

HOWARD H. HALPERIN, architectural student, 3522 W. Ogden Av

Chicago, III.

DONALD O. LOOMIS, architect, 114 South Los Angeles, Anahei Calif.

K. L. Mehta, engineer and architect, The Travancore Rayons Lt Via Alwaye Rly. Stn., North Travancore State, Perambavur, Ind EDWARD D. MILLS, architect, 38A, Soho Square, London W

England. STANLEY C. PODD, architect, 391 Delaware Ave., Buffalo 2, N. Y. TELCHIN & CAMPANELLA, architects, 22 W. 48th St., New York, N.

University of Washington, School of Architecture, Seattle, Was WOERNER & WOERNER, architects, 141 Church St., New Brunswic

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#### CONSTRUCTION DATA

Architect: A. C. Finn

Structural Engineer: Robert J. Cummins Mechanical Engineer: Reg F. Taylor

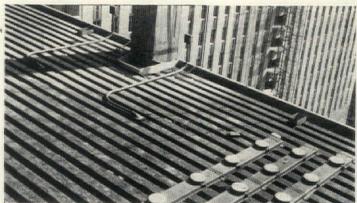
Building Engineers: W. S. Bellows Construction Company

Electrical Contractors: Fischbach and Moore of Texas

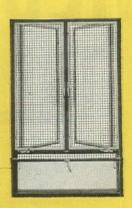




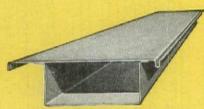
Growing from seven stories to 21 stories in a comparatively short time, the National Standard Building in Houston, Texas, will be electrically flexible with G-E Q-Floor Wiring.



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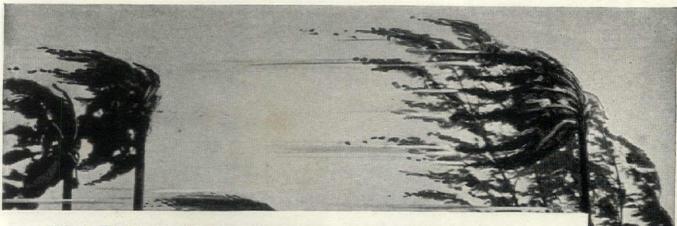
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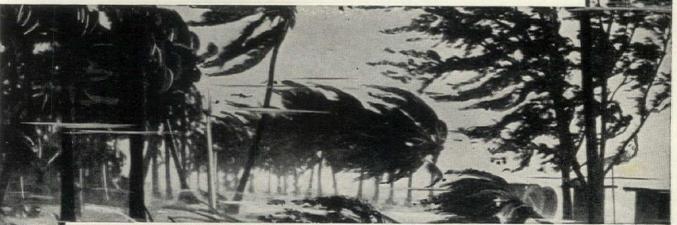
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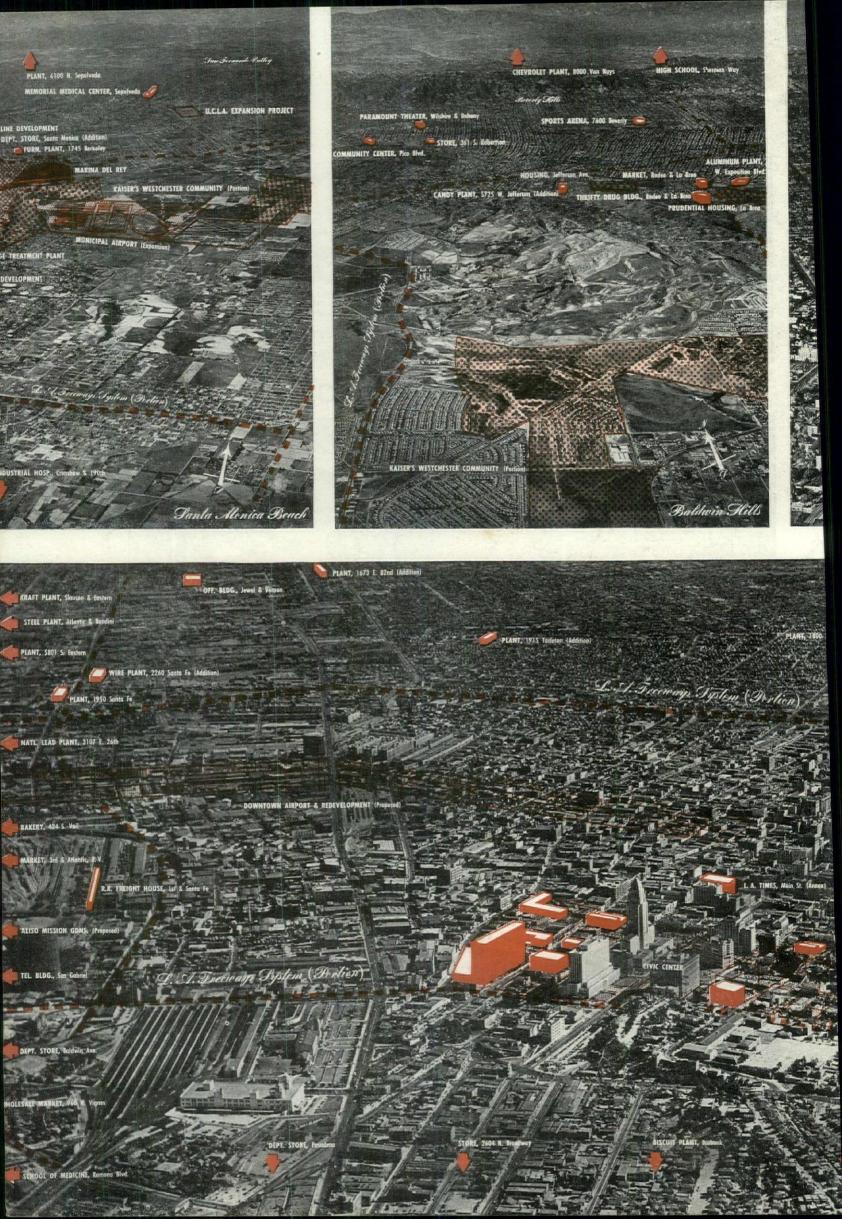
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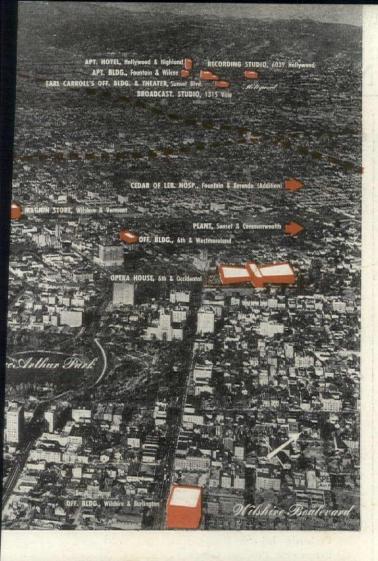
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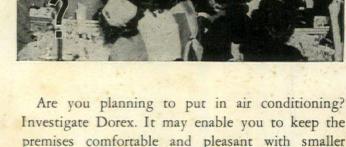
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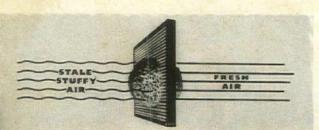
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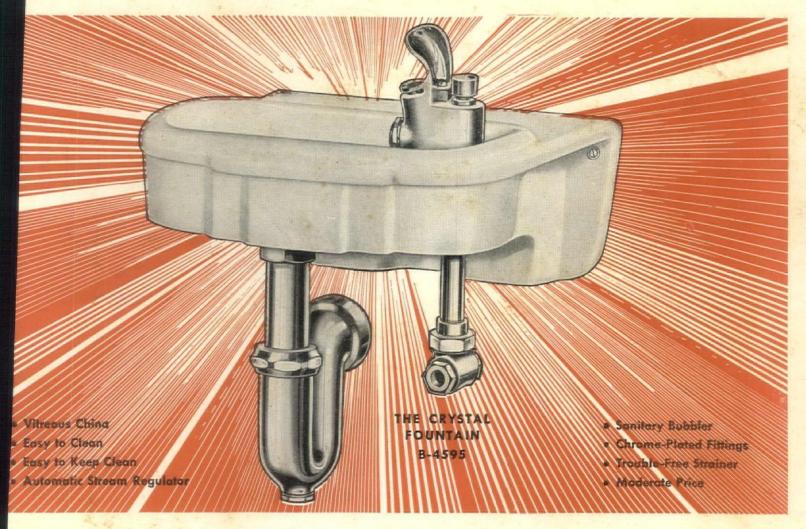


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