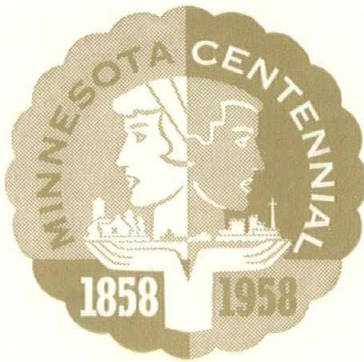


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**March
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Volume XXII
Number Two

ANOTHER
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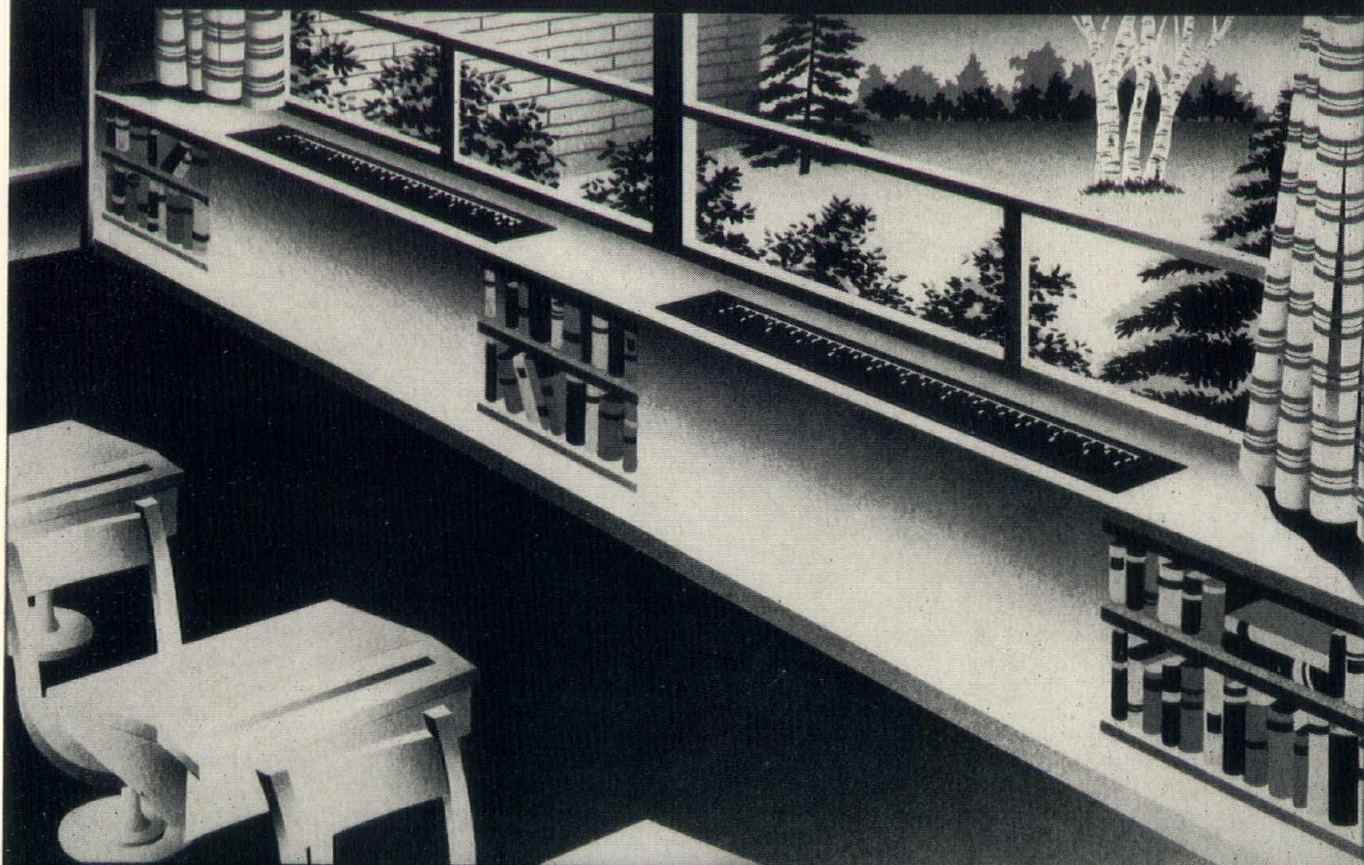
MEMO:

Dear Bill:

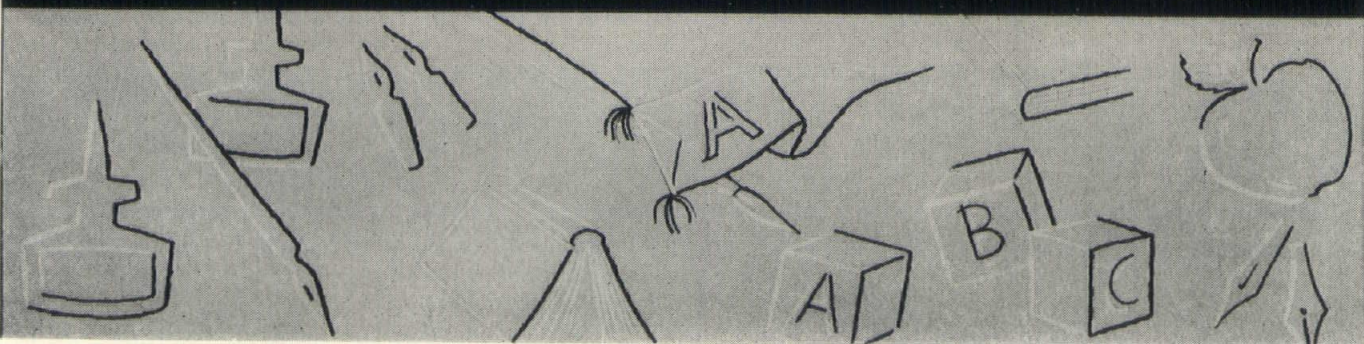
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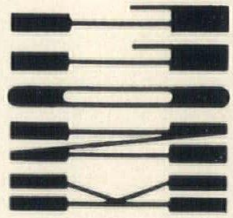
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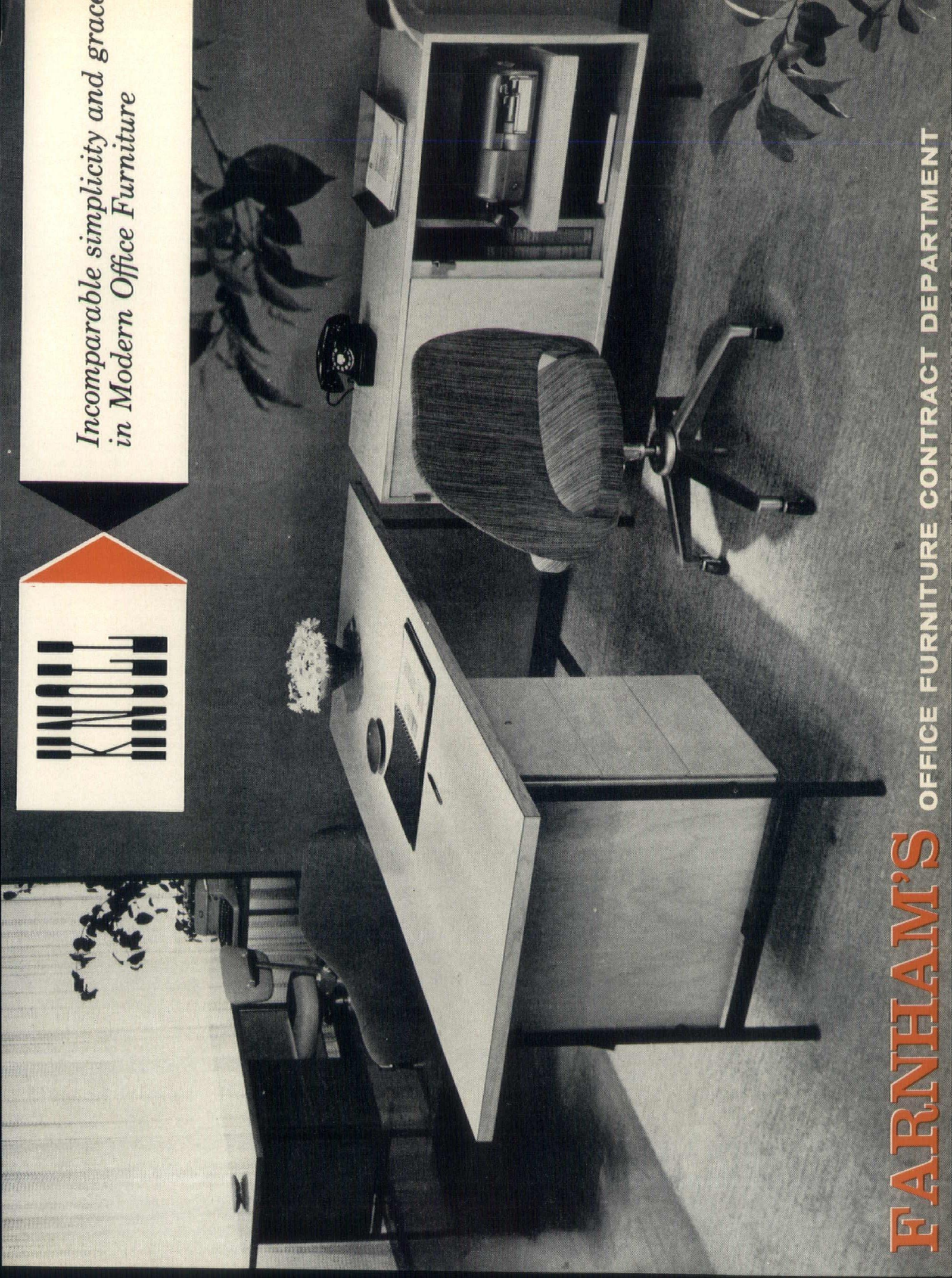
VOLUME XXII
NUMBER 2

1958

NORTHWEST ARCHITECT



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Let's Omit "or equal"

by Harold J. Rosen

Reprinted from OCTOBER 1957 PROGRESSIVE ARCHITECTURE

specifications clinic

This
makes good
Reading —
and good
sense!
Duke +
Jack

Having spent a good many years writing specifications for the Federal Government, I had been led to believe that you could not exclude anyone from bidding on public work. Therefore when Federal Specifications were not available to which you could reference materials, you specified about three brand names and then quoted the "or equal" clause, which would permit everyone to bid. This same philosophy was used with respect to private work that I performed. However, a goodly number of specifications writers on nonpublic projects use the term "or equal" after specifying several brand names.

Some specifications writers have long insisted that the "or equal" clause be dropped from specifications but no concerted effort has been made to get all specifications writers to conform to this standard. The evils inherent in using an "or equal" clause have not really been pointed up sufficiently to expose its shortcomings. Nor has there been a satisfactory substitute which would have permitted an easy break from this habit.

Having spent a year now in private practice, I can see more clearly the disadvantages of using the "or equal" clause and fortunately a satisfactory substitute has been recommended by the Building Research Institute's first Specifications Workshop, which was held in February, 1957. In permitting the term "or equal" to be used in the specifications, it leads to a conflict between the Architect and the Contractor as to who should determine the equality of materials proposed for substitution. If the Architect modifies the language to say "or equal in the opinion of the Architect," the difficulty is still not resolved since the Bidder might be able to secure a lower price on some material other than that specified but be in doubt as to whether the Architect will approve it. If the Bidder takes a chance on this lower-priced material, he risks being forced to buy the higher-priced material specified. If the Bidder did not take this chance he would lose the advantage of the lower price which might make the difference between winning or losing the contract.

The "or equal" clause also increases the amount of office work the Architect must perform in order to chase down all of the "or equal" substitutions which are submitted by Contractor for approval.

Many difficulties are avoided if the "or equal" clause is dropped. The Contractor cannot claim that his bid was predicated on the use of another material, which the Architect refuses to accept as an "or equal." By basing their bids

on the materials specified, the Bidders are competing on the same level—making for fairness on competitive bidding.

The Architect has better control of the job when the "or equal" clause is omitted. With an "or equal" clause the Contractor is constantly striving to use other materials, especially if there is a price advantage to him after the contract is let. In many cases, the Owner does not benefit from these price differentials, the substitution being made solely on the basis of "or equal without change in contract price." The Architect should insist that the products which he has specified and with which he is familiar and has confidence in, should be used.

At the meeting of the Building Research Institutes Specification Workshop, the following paragraph was recommended for inclusion in the Special Conditions of the Specifications.

"VARIATIONS FROM MATERIALS SPECIFIED:

"Materials or products specified by name of manufacturer, brand, trade name, or catalog reference shall be the basis of the bid and furnished under the contract, unless changed by mutual agreement. Where two or more materials are named, the choice of these shall be optional with the Contractor. Should the Contractor wish to use any materials or products other than those specified, he shall so state, naming the proposed substitutions and what difference if any will be made in the contract price for such substitution, should it be accepted."

It was further emphasized by the Workshop that reference to a single name or product in private work should be discouraged, except in the case of an Owner's firm desire in private work, because it tends to eliminate competition.

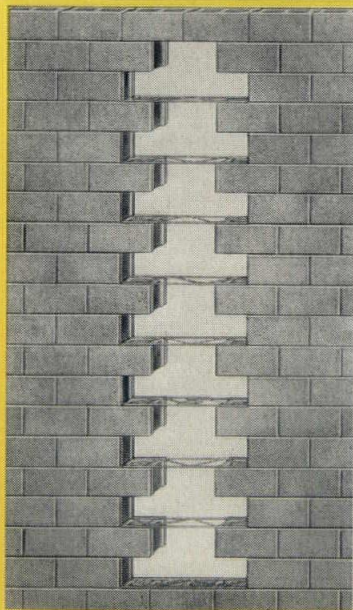
There is a fallacy about the use of the "or equal" clause in public work. On the Federal Government level, I believe that the Comptroller General has ruled that at least three names of Manufacturers be used when no Federal Specifications exist for a given material. The ruling has not required the use of an "or equal" clause to open up the bidding, although Federal Agencies have included the "or equal," in order to be above-board. Bidding in public work is a privilege—not a right—and the Government, as an Owner, has a right to protect its own interests by demanding that it receive a dollar's worth of value for a dollar spent. A Bidder on public work should prove that his material is equal to that specified and it should not be incumbent upon the Government to test every substitution to determine its equality.

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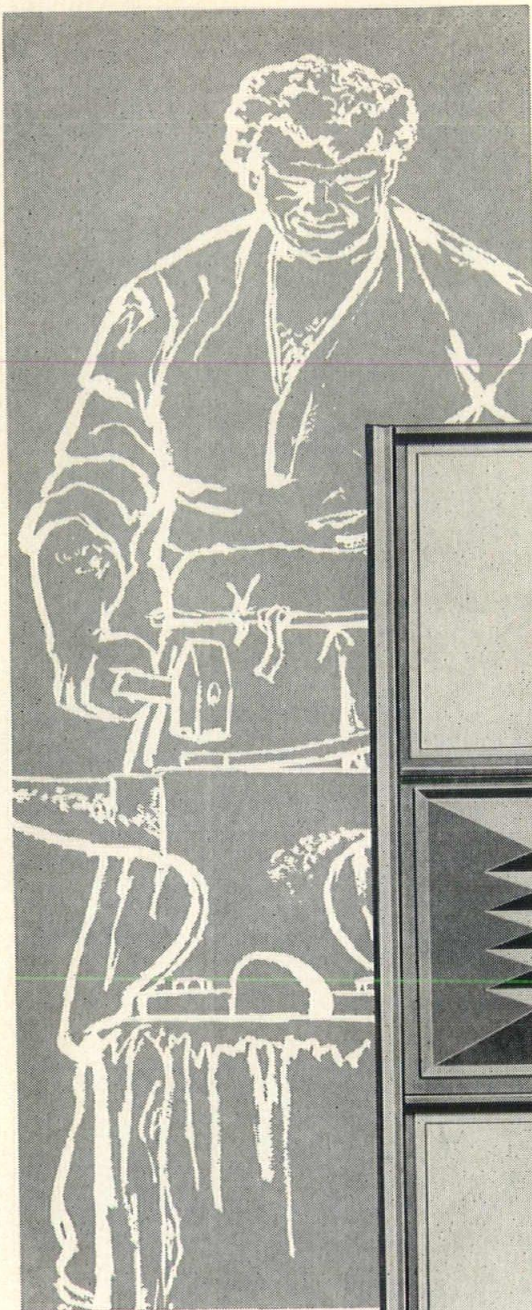
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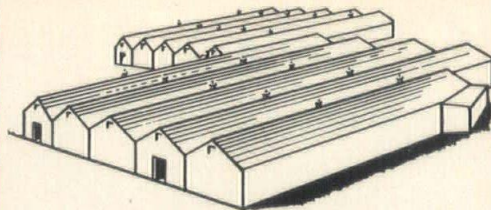
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FOR
THE
NAMES
YOU
KNOW**

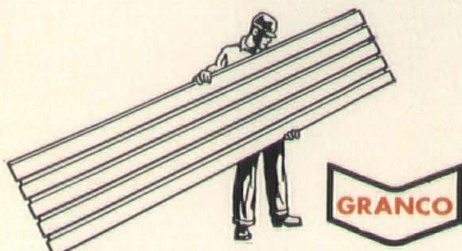


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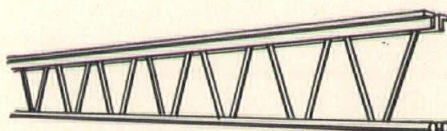
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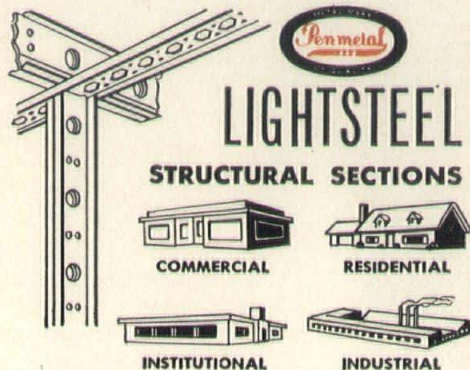
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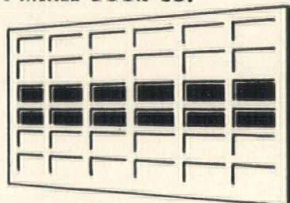
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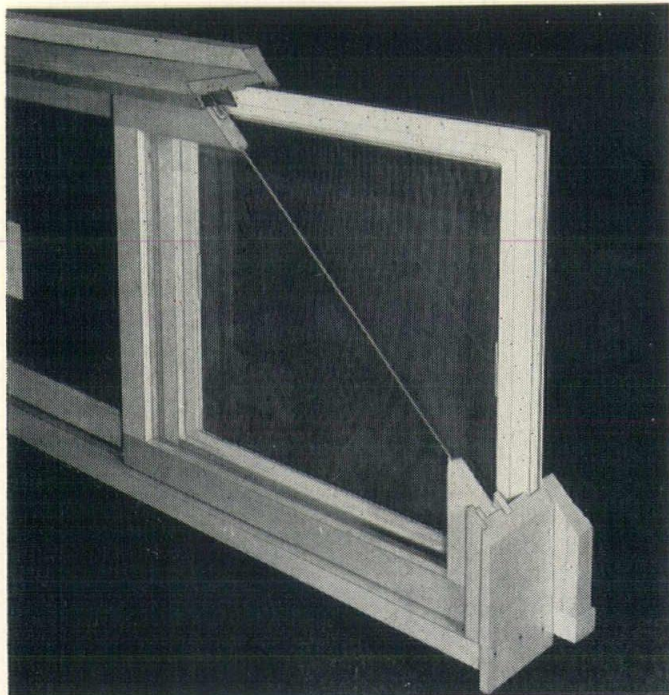
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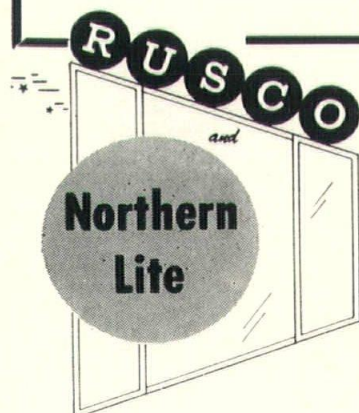
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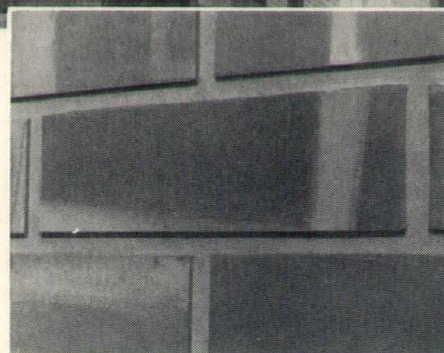
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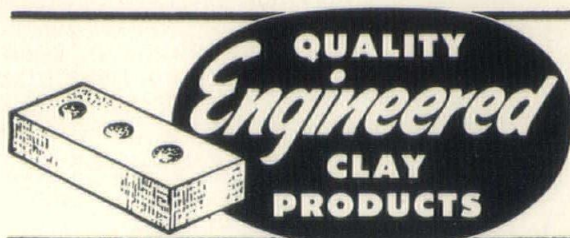


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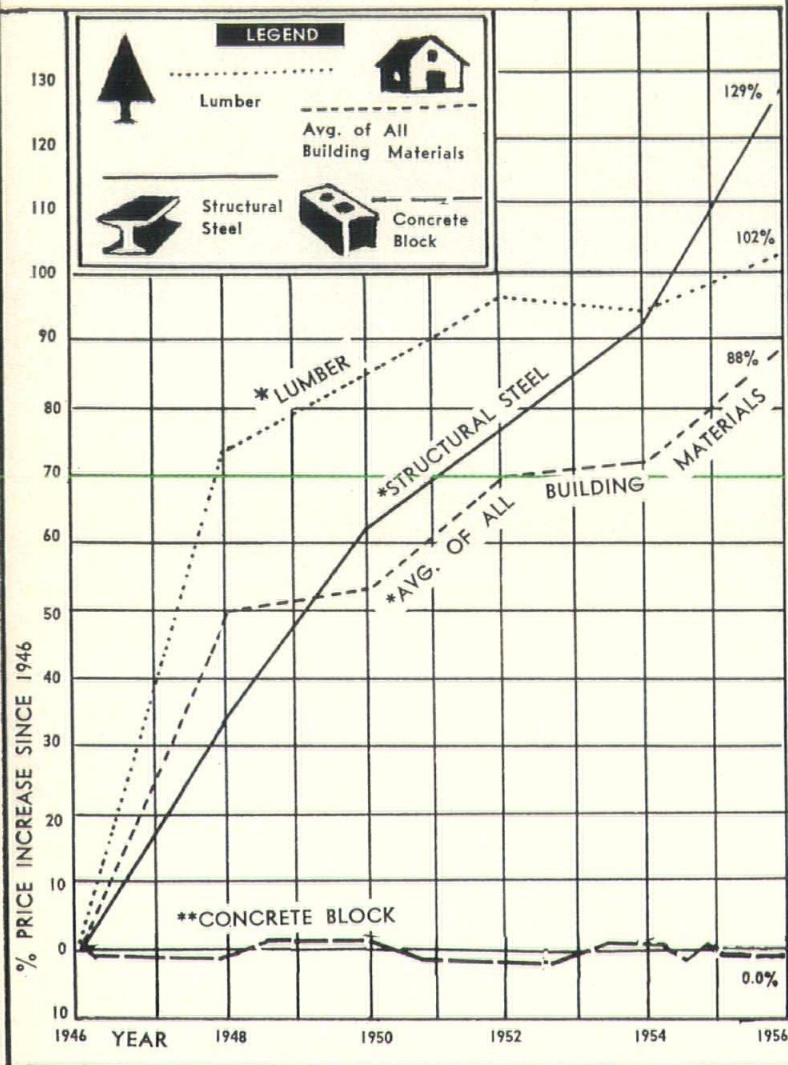
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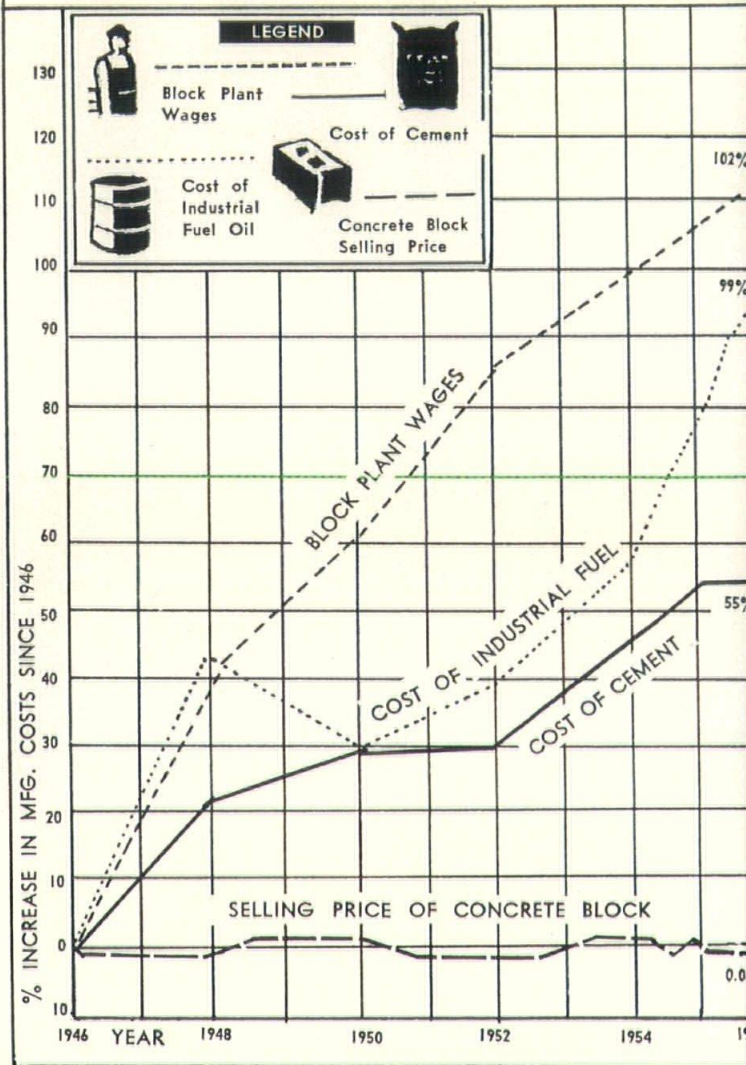
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* DATA FROM U. S. DEPARTMENT OF COMMERCE

** DATA FROM MINNESOTA CONCRETE PRODUCTS ASSN.
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% INCREASE IN MANUFACTURING COSTS OF CONCRETE BLOCK COMPARED TO SELLING PRICE 1946-56.



STATISTICAL INFORMATION COMPILED BY THE MEMBERS OF THE MINNESOTA CONCRETE PRODUCTS ASSN.

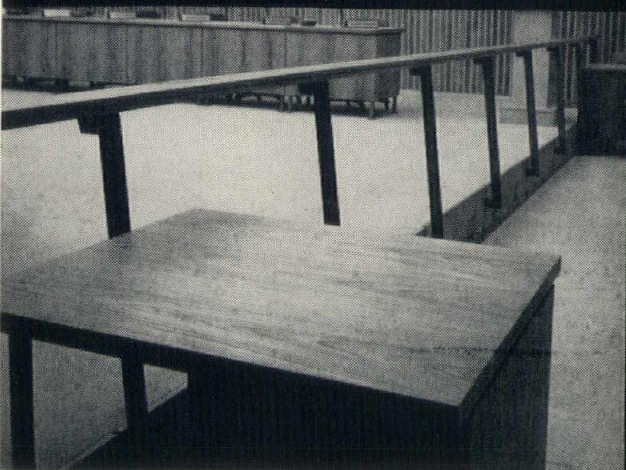
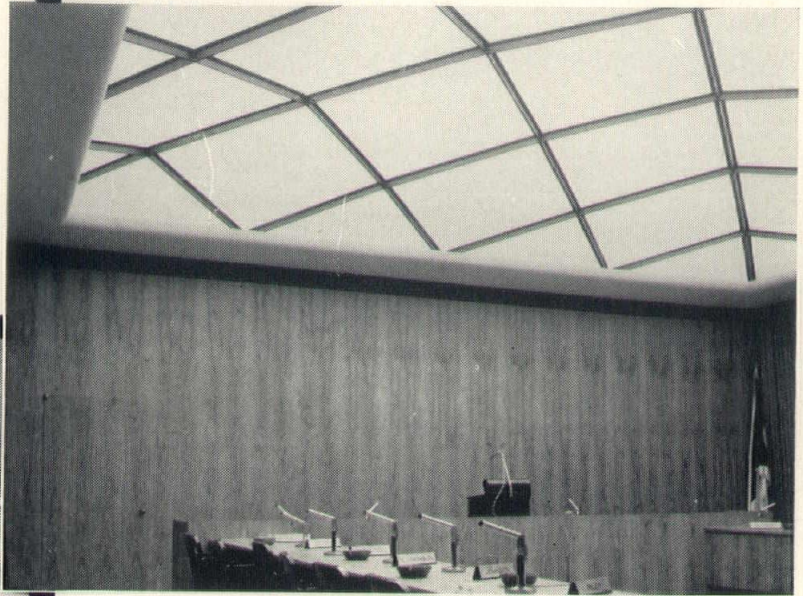
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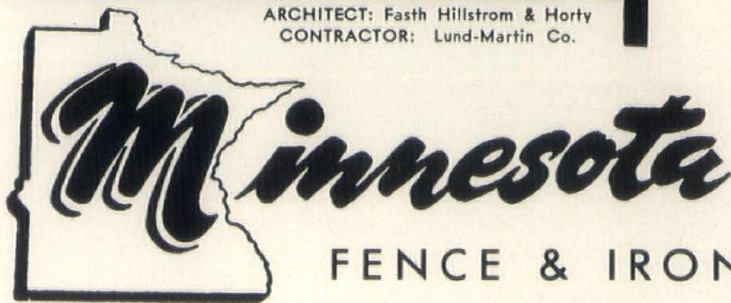
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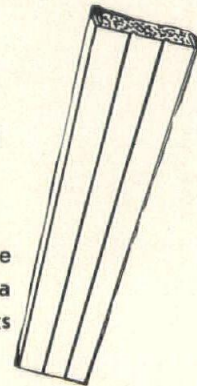
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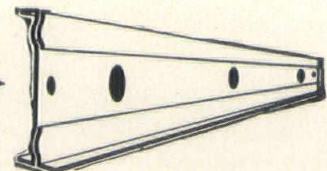
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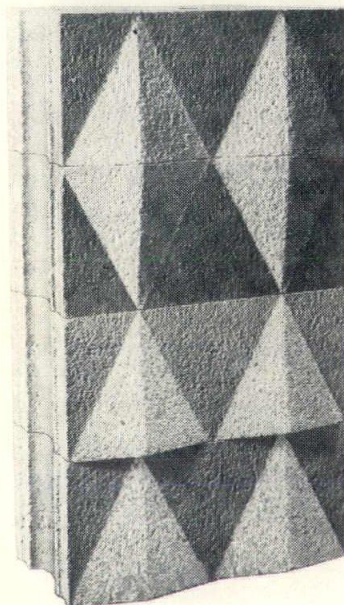
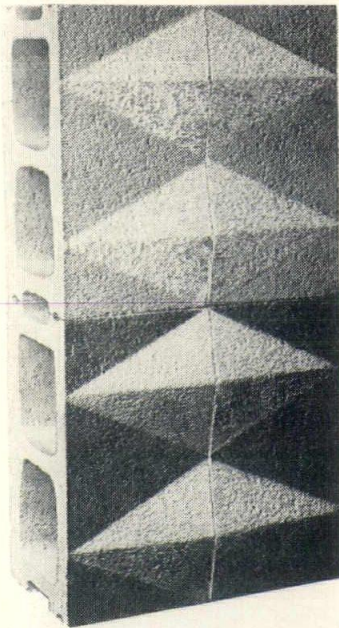
PACKAGED
WALL SECTION



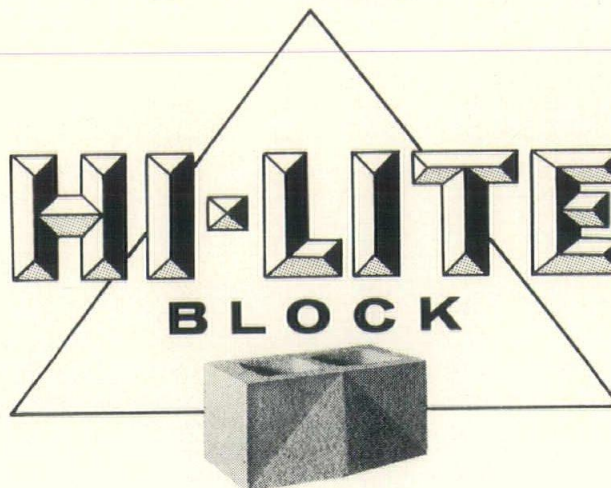
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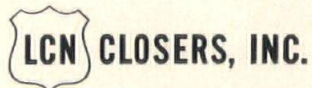


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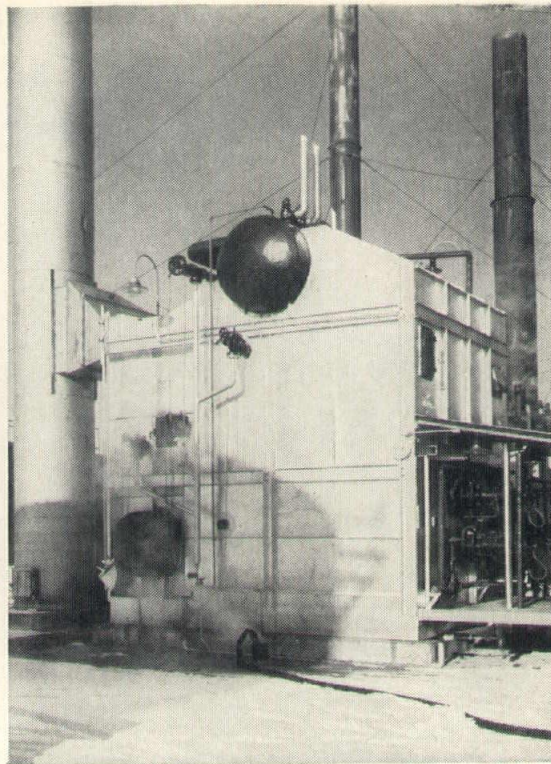
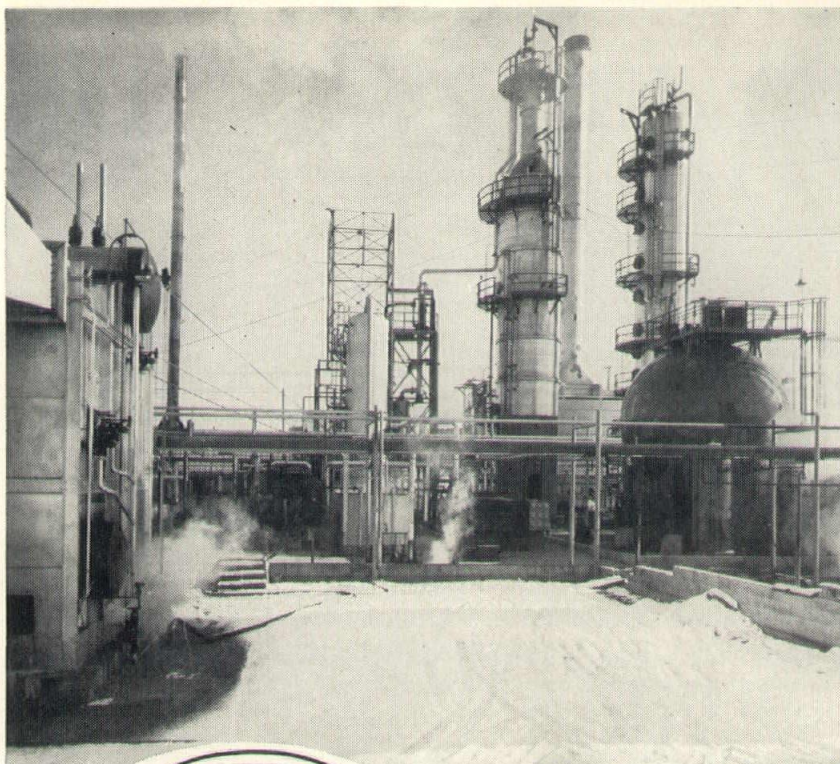
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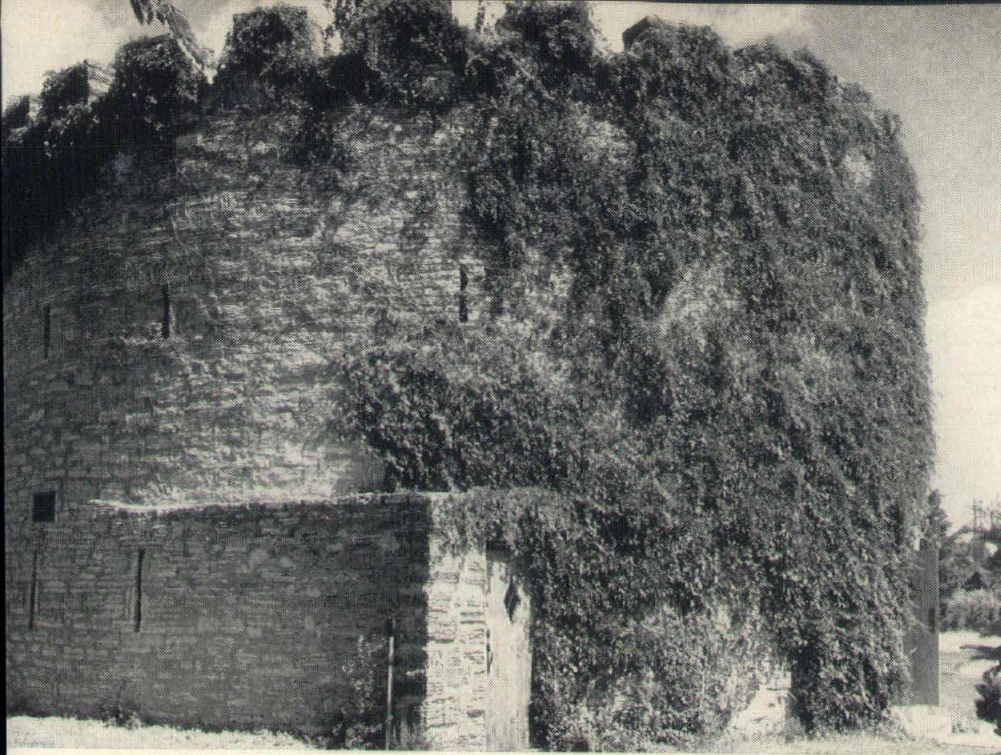


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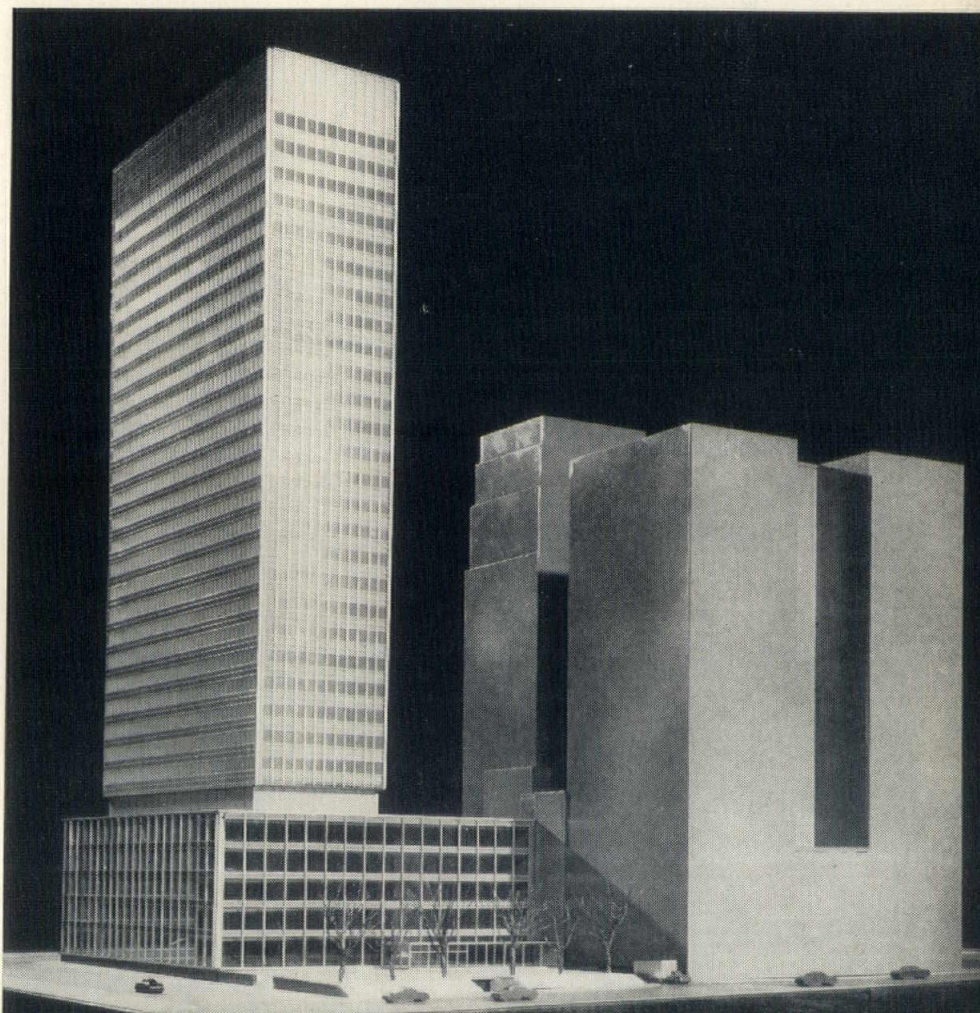
Centennial Exhibit of Minnesota Architecture

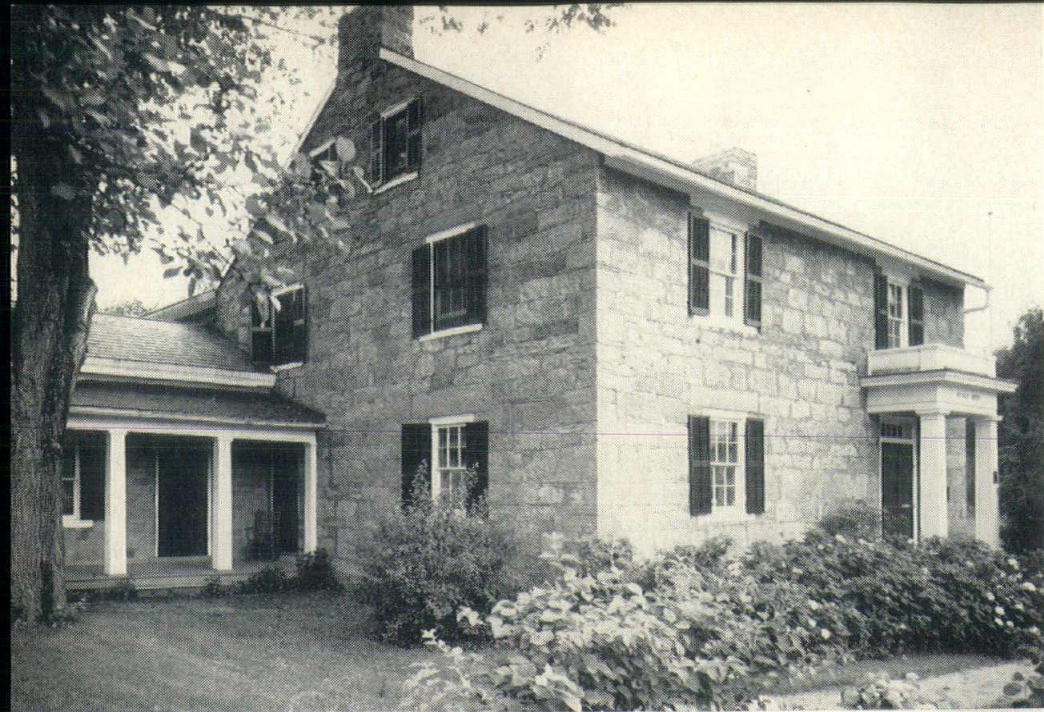


In honor of the statehood centennial celebration of the State of Minnesota we are substituting the collection of buildings on the following pages for our usual monograph. They present the high points of 100 years of building in this state, from the close-to-nature early buildings to the most strictly functional of modern structures. These pictures are included in "A Century of Minnesota Architecture," the exhibition or-

ganized by the Minneapolis Institute of Arts which, following its showing there, will be presented in St. Paul, Rochester and Duluth. We are greatly indebted to the staff of the institute for allowing us to reproduce these pictures for our readers and to present an adaptation of the catalog comments for the exhibition by D. R. Torbert, associate professor of art history, University of Minnesota.

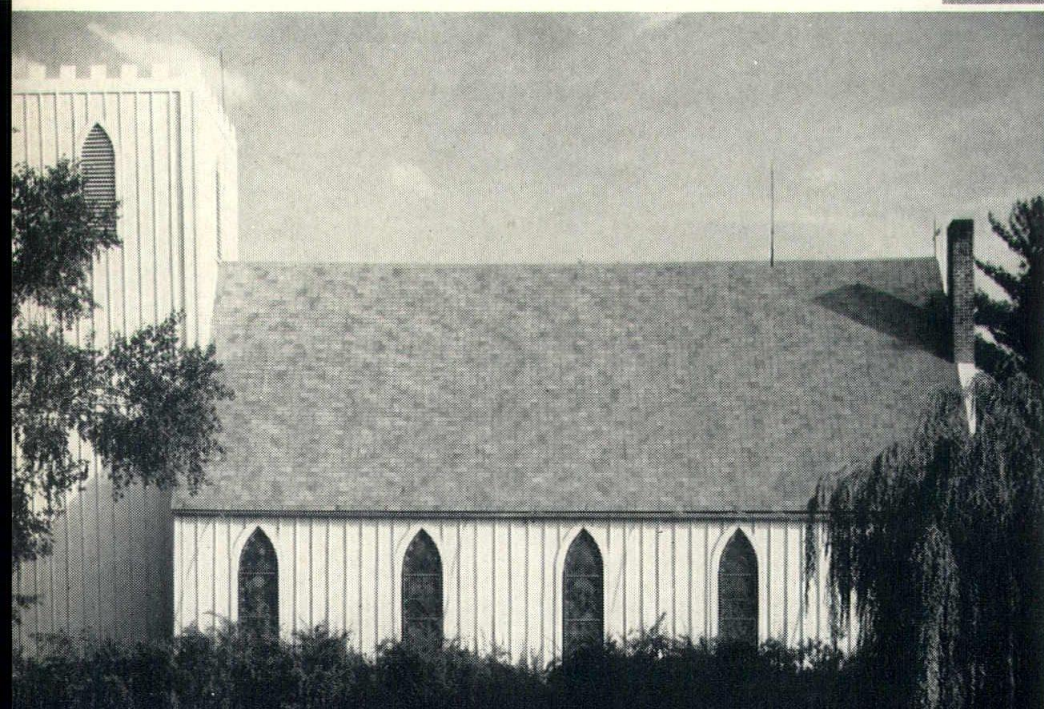
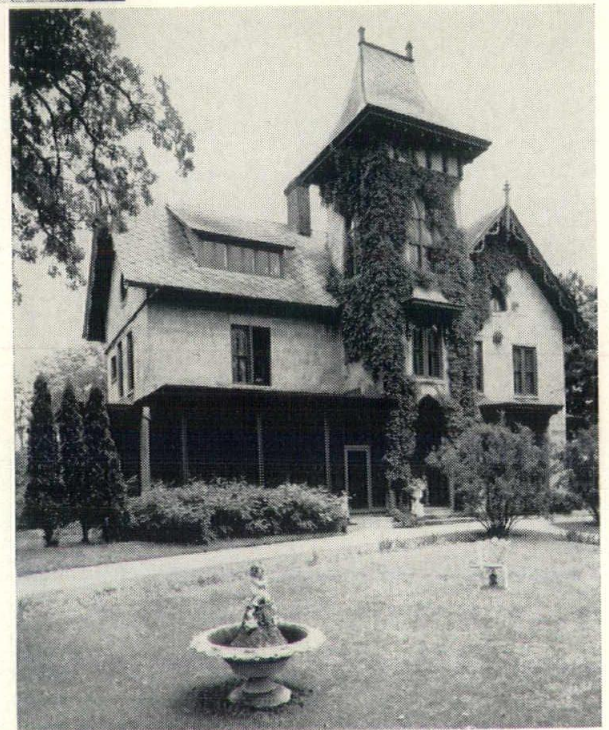
A fitting introduction to the 100-year span of building in Minnesota are the two structures shown here. The Round Tower at Fort Snelling, built in 1820 and shown above, is the oldest building in the state. Its materials are typical of the frontier's use of what was at hand yet its weathered form has a grace which have made it familiar to hundreds of thousands of persons. The 1958 patterned use of space is well illustrated by our other picture, that of the First National Bank Project in Minneapolis, by Holabird, Root and Burgee, with Thorshov & Cerny as Minneapolis associates. The structure is already well known for its tying together into an integrated whole many of the best and latest space utilization ideas. Our illustration is of the model.

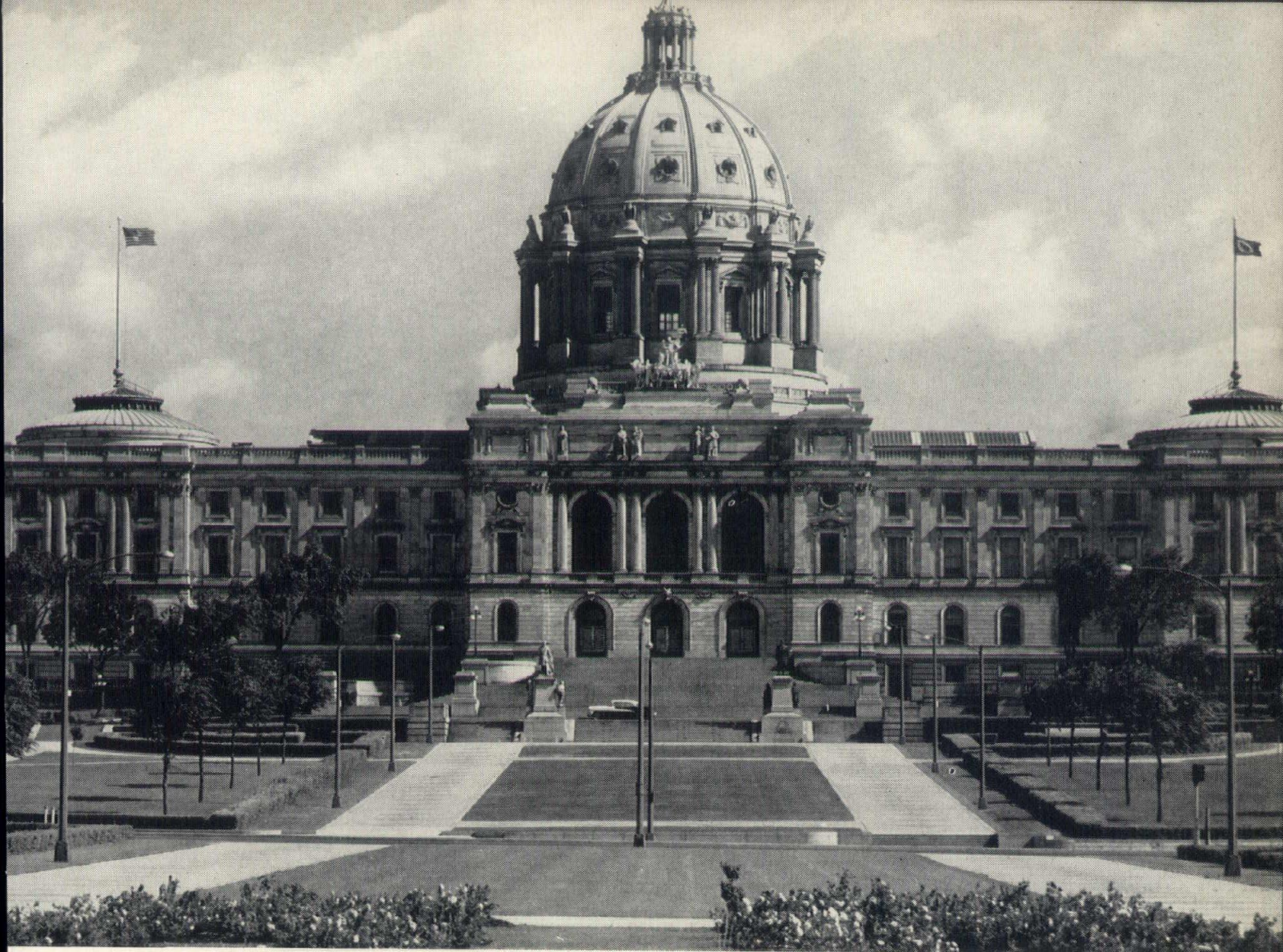




Simple, direct and handsome are the designs of many early houses. One of the best is shown here in the Henry Sibley House in Mendota, built in 1837 and today a museum. Buff sandstone from near the site, cemented with clay, formed the walls. Of similar character is the Christ Episcopal Church in Old Frontenac although the materials here is wood. Its original pattern reportedly came from Richard Upjohn's "Rural Architecture," published in 1852, although it lacks the spire of Upjohn's designs. Its board-and-batten construction is typical.

An example of the cottage residences popular in the late 1850's is the LeDuc House in Hastings, which, although supposedly designed by a local architect, is a reversed floor plan of a "Cottage in the Rhine Style" which appeared in a publication by Downing. It is, however, larger and less frivolous than the cottages of the style at that time. The buff sandstone for this house was quarried at Red Wing and taken to the site by ox cart.





The Minnesota State Capitol and the First Territorial Capitol are an interesting study in contrasts. The older structure fell in the period from 1820 to 1840 and through in spots to the Civil War when the Greek revival was strong in this country. Built in 1851, the territorial capitol owed its Doric columned porticoes and domes to that tradition of classicized forms. The present state capitol in St. Paul was built in 1896 with Cass Gilbert as architect, at a time when classicized design was firmly in the saddle. The structure was hailed at that time as a "pure" example of the popular design and its lavish decoration was admired. Passage of time and growth of scope and pace of government has made the capitol's wasted spaces, its poor lighting and similar shortcomings as a functional building very evident.



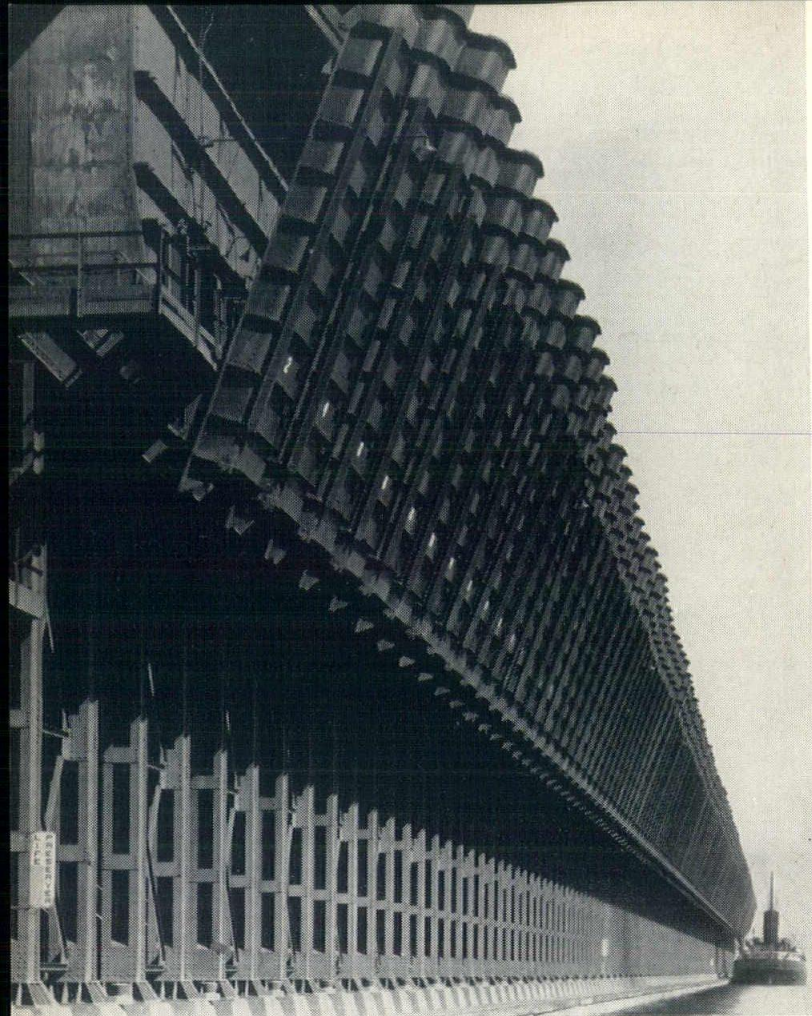
A commanding site and a massiveness of design and detail make the St. Paul Cathedral outstanding. E. Lowell Masquerary designed the building, which tops one of the city's hills, in a coarse Neo-Baroque style which he knew well from his student days at Beaux Arts in Paris. He enlarged the forms and details, however, to attempt to achieve the effect of the fortress churches of France.

Commercial contrast during the several decades around the turn of the century came out in the Metropolitan Life Building and Butler Brothers structure in Minneapolis. E. T. Mix's design of the Metropolitan was daring, organized about a great central court which sought to solve a problem of interior space in an emotionally desirable way. Although the walls contain large windows the effect did not rise above a heavy, cavernous level. Harry Jones, in the Butler building, combined pointed arches, corbeled parapets and a severity of mass into a sound architectural effect which has won favorable comments from countless architects.



Internationally famous among Minnesota buildings is the Security Bank & Trust Company's building by Louis Sullivan in Owatonna. This was the first of a series of such notable small banks Sullivan designed for Midwestern communities. This structure expresses completely its designer's idea that architecture must express a central idea, in this case that of a bank as a strongbox or treasure chest, and that exterior and interior must be unified in carrying forth that idea. The structure is being remodeled to modernize its space utilization but the remodeling is being done in the theme of Sullivan.





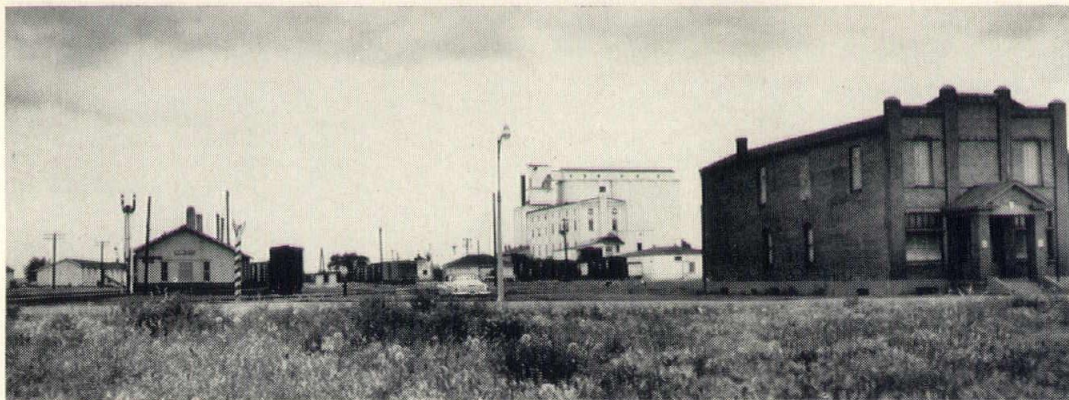
The dignity possible in brute strength has appeared many times in Minnesota structures but never so effectively portrayed as in this illustration of the ore docks in Duluth. Stripped of all non-functional adornments, they achieve a repetitious pattern which satisfies the appreciative beholder.

The acceptance and accenting of the vertical qualities of high buildings came forward in the 1930's and a good example of that period is the Ramsey County Courthouse-St. Paul City Hall in St. Paul, designed by Ellerbe and Company and built in 1932-33. Planar surfaces and block-like masses were integrated into the design of these buildings in an honest expression of their height.

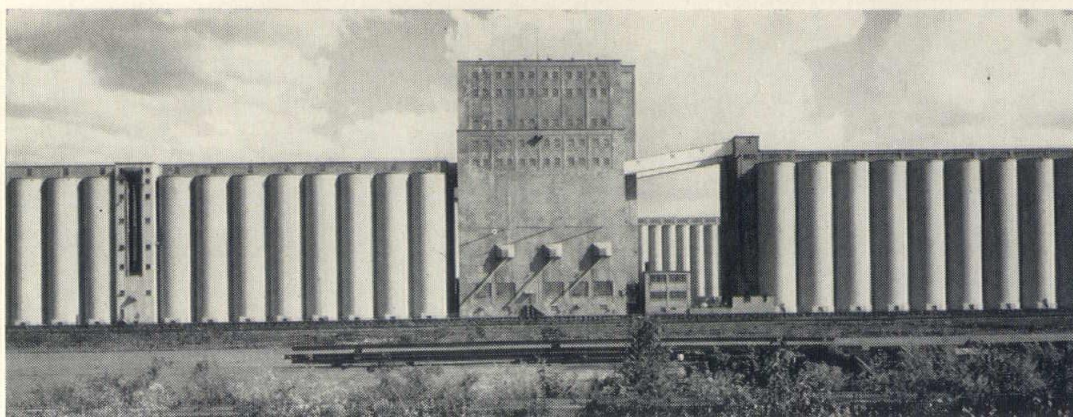
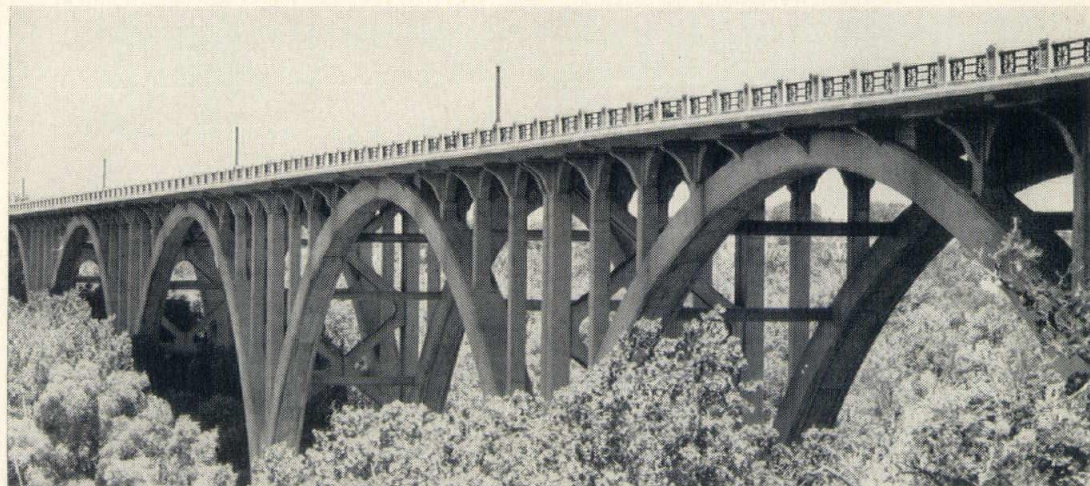




The small communities of Minnesota during the earlier years of the Twentieth Century developed certain "trademarks," as shown in these two illustrations. The water tower and the grain elevator, frequently associated with the railroad which served the town, were repeated time after time throughout the state.

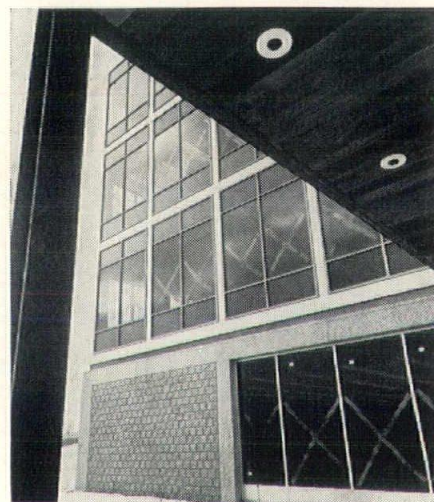


Concrete's arrival in force on the architectural scene brought big things to Minnesota. Clean and spare is the Hennepin County Bridge over the Minnesota River, which was the largest reinforced concrete multiple rib-arch structure in the world when it was designed by engineer Walter S. Wheeler. The rise of tremendous groupings of concrete grain elevators came at this time to mark the status of Minnesota as an agricultural state. Of these one of the handsomest is the Occident Terminal in Duluth, designed by a firm of structural engineers, The Barnette and Record Co.

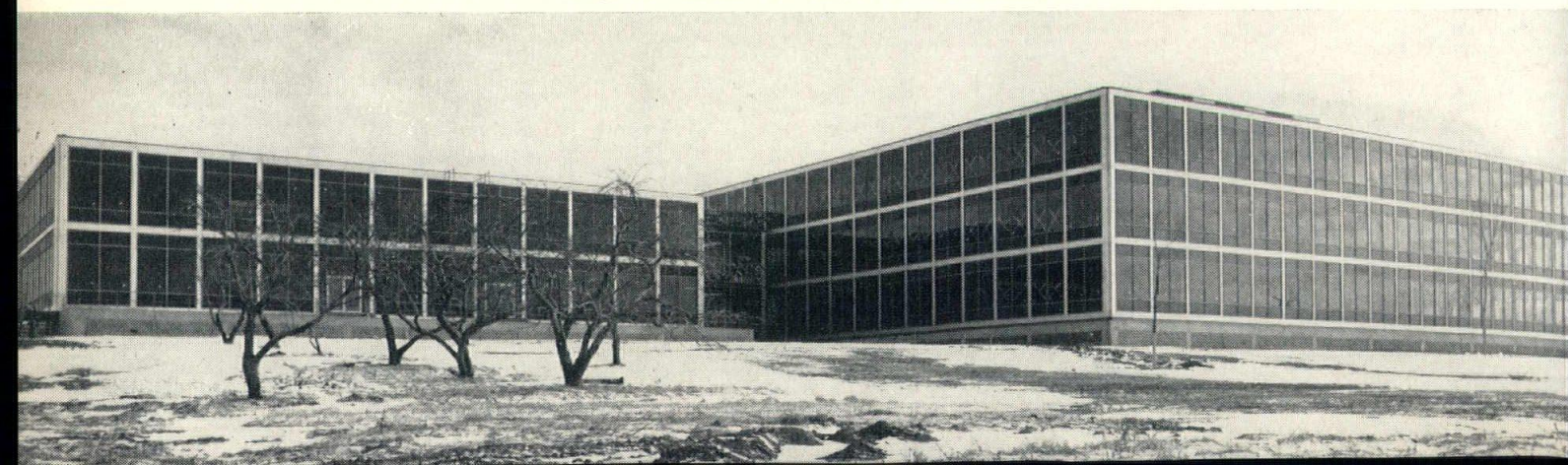




The controversial Southdale development, in which Victor Gruen Associates attempted to unify some seventy retail outlets, is famous whether the viewer likes it or dislikes it. It had a definite impact on architectural discussion at the time of its construction and the echoes linger on. Its complex falls short of unity due to the myriad of individualized store fronts their occupiers insisted upon.

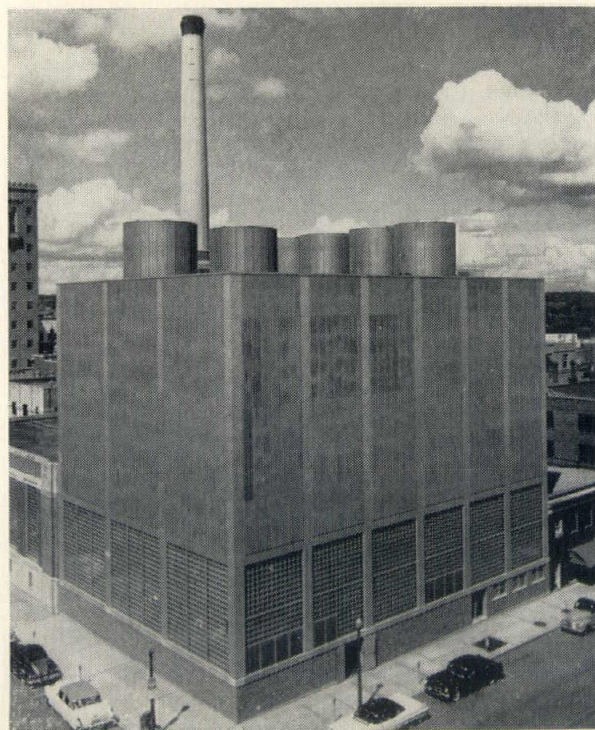


The well designed, steel-framed building with entire walls of glass, or of metal and glass, is deceptively simple in appearance. The slightest suggestion of uncertainty in the scale of the structure or in the proportions of its parts destroys the entire composition. Best example of this kind of design in Minnesota is the new headquarters building for General Mills just west of Minneapolis, designed by Skidmore, Owings and Merrill. In detail and in its entirety, the structure is a study of careful planning.

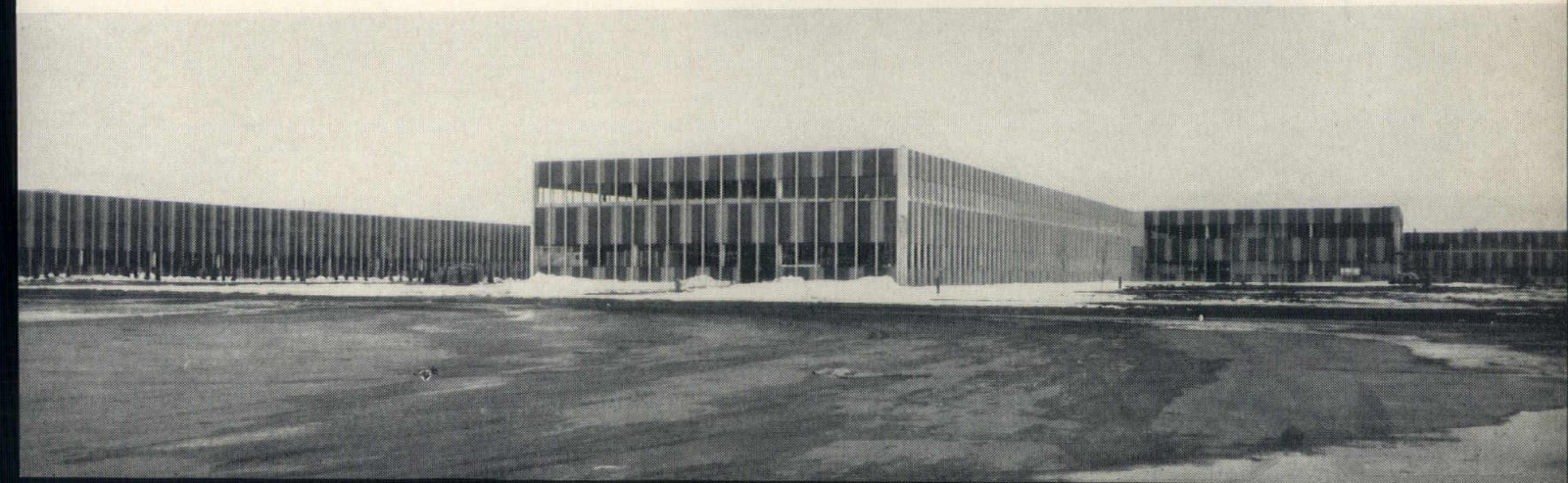




Marcel Breuer's design for one of the first structures in the rebuilding of St. John's University at Collegeville sets the theme for the future development. Astute and powerful, the cloistered living quarters make a sharp break from the older buildings in the background. Breuer's use of materials to reflect the use of the building typify his feelings for them that have made him world famous.

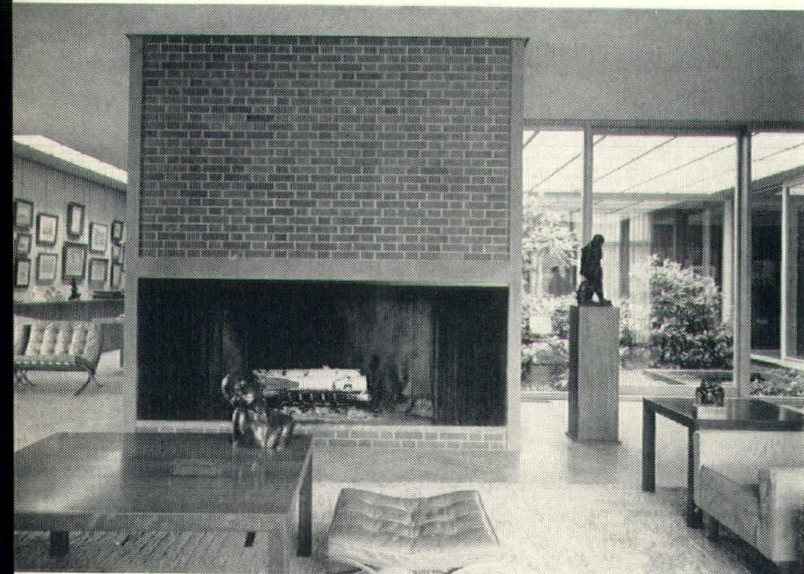


Ellerbe's design of the Franklin Sub-station in Rochester, with its well proportioned placement of bays and its interesting use of concrete, glass block and metal, proved a purely industrial building need not detract from its location in a downtown area. In Rochester also is one of the most modern of Minnesota buildings, the International Business Machines Corporation plant, designed by Saarinen, Saarinen and Associates. The curtain walls, factory fabricated, are suspended outside the framework and are only three-eighths of an inch thick. Each panel is a sandwich of cement-asbestos covered by aluminum skins and the exterior is porcelain enameled in bold navy and royal blue. The entire design has been worked out from a technical standpoint in the usual thorough Saarinen manner.



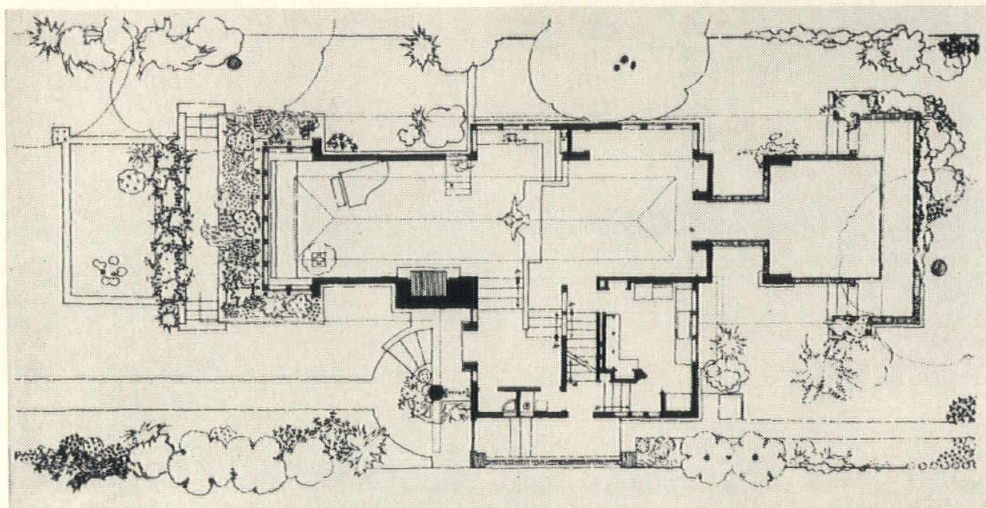
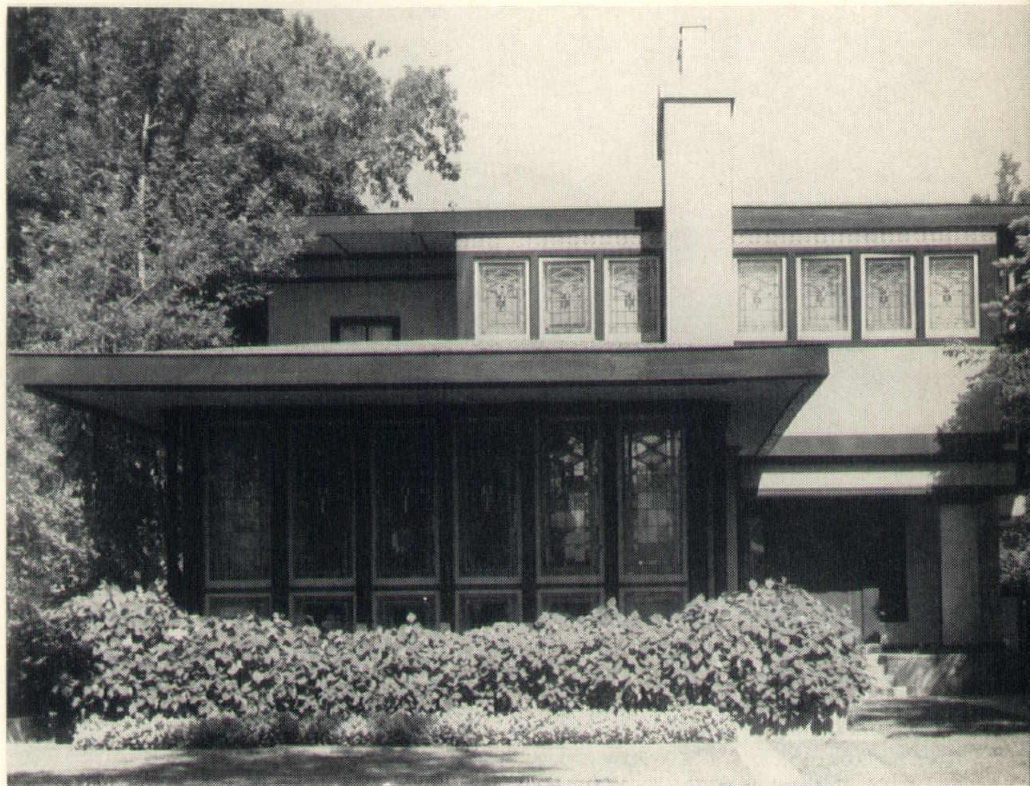


Church architecture today has many practitioners with varying views and Minnesota has some brilliant examples of their results. Eric Mendelsohn's Mount Zion Temple in St. Paul achieves a closed-in, meditative solemnity through the use of bold, angular masses and heavy forms. In Christ Lutheran Church in Minneapolis Saarinen and Saarinen focus everything on the symbol of the cross. Simple materials—yellow brick, blond wood and silver accents—are used to their fullest effect in this structure. Acoustical control is brought about by no two walls being parallel and by using uneven patterns in the brickwork. Sources of natural light are concealed from those within the structure and the light concentrates on the altar and its high cross.

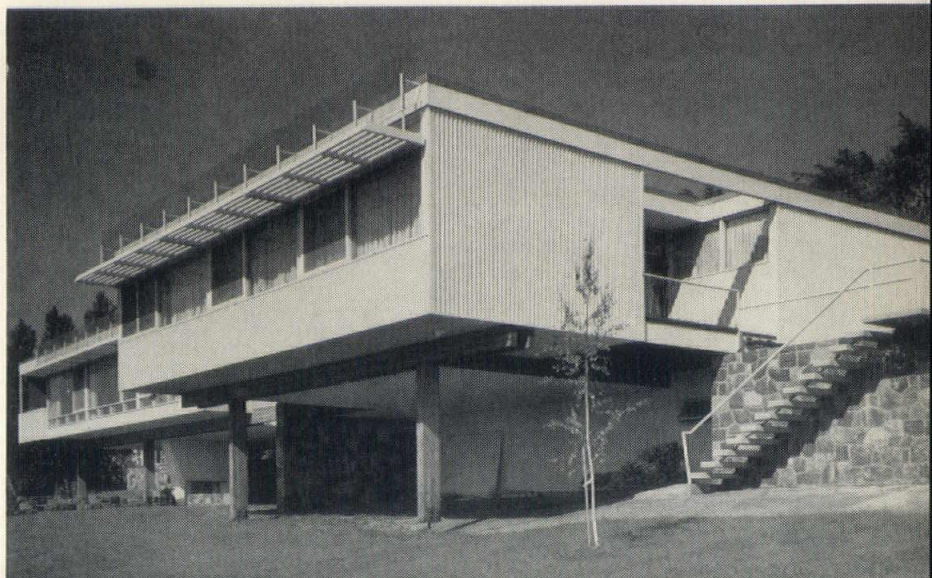


Space use and arrangement at its most pleasing is seen in the Richard S. Davis house at Lake Minnetonka. Philip C. Johnson designed the house with a strong sense of enclosure, on the formal side although the units within it are not arranged symmetrically. The fireplace and a garden court help divide the areas in the house. There is a definite sense of serenity within the structure.

Well known to readers of Northwest Architect is W. G. Purcell, whose home shown here is notable for its flowing space qualities. Ingenious use of the area of a small city lot has been made so the house has good views and plenty of sunlight without sacrifice of privacy. Purcell used tent ceilings and horizontal bands of leaded glass windows to provide an insistent horizontality.

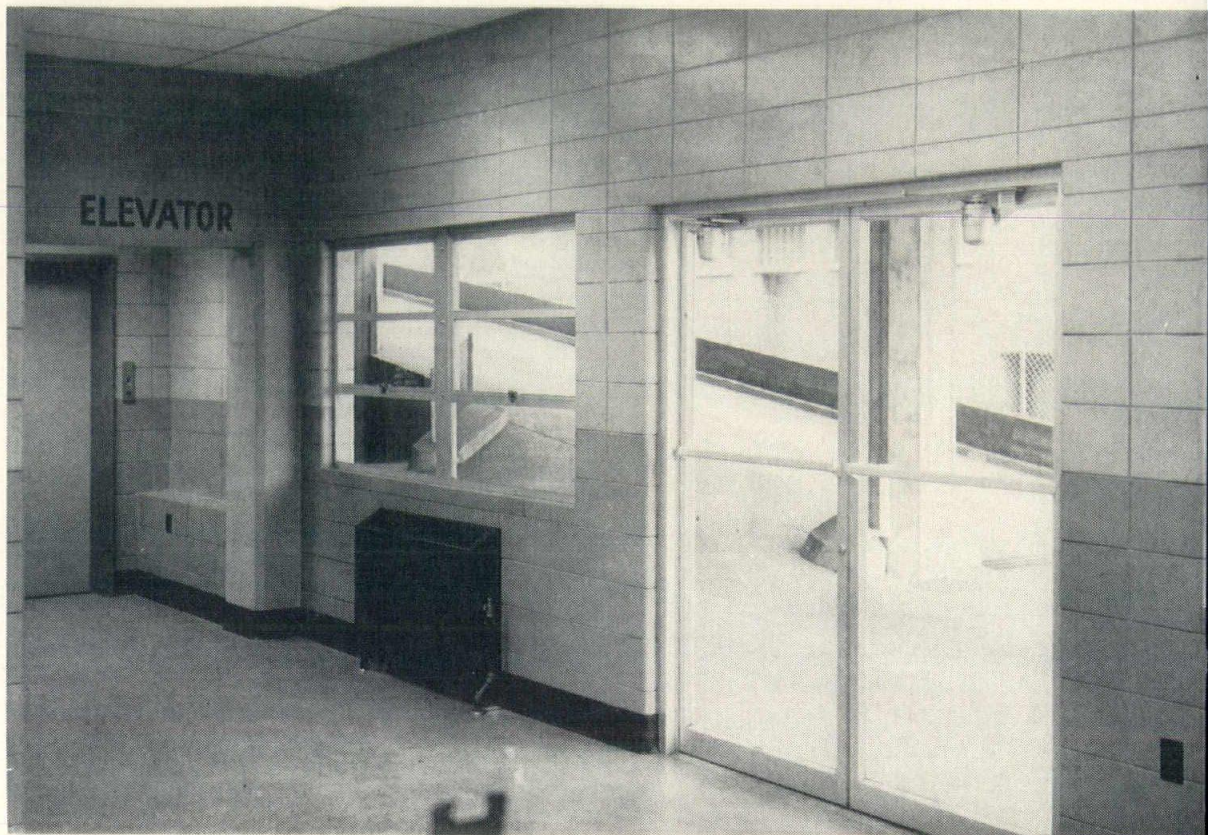


An airy view with a sense of freedom from the earth is evident in the Robert Starkey house in Duluth designed by Marcel Breuer. It is designed to take full advantage of the Lake Superior vistas from its site on a steep slope. It is supported on laminated wood posts whose steel-pin footings go through to bedrock. The adjoining granite serves to anchor this naval kind of design and thus prevent instability in sense.



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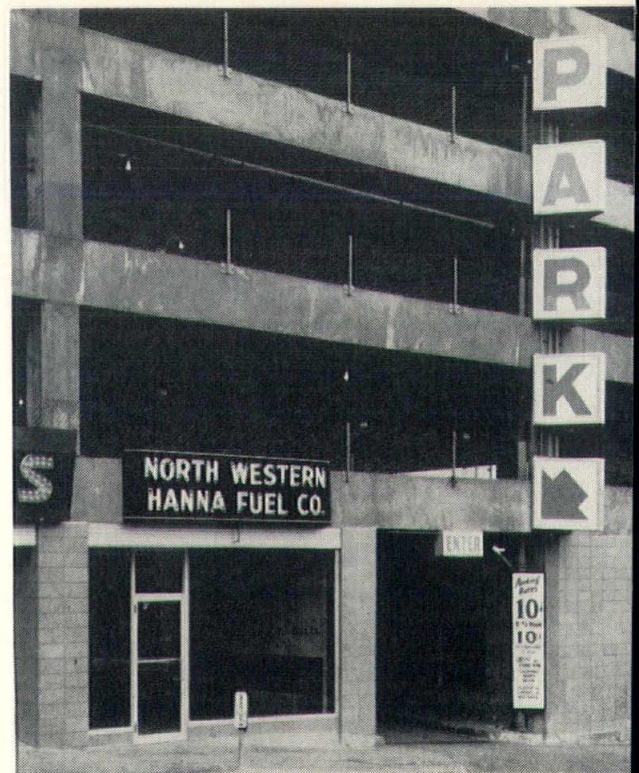
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The use of Spectra-Glaze is illustrated in the office interior and exterior store fronts of the Garrick Parking Ramp, Duluth, Minnesota.

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The Place of Man

By René Renard

A world balance sheet for a more human world—this is the theme of the 1958 Brussels Universal and International Exhibition.

The exhibition is a courageous attempt to re-establish the place of man in a great epoch where it has become necessary to take stock of the direction in which evolution is taking us and of which we must assume control.

The change from an economy based on the family to that based on trade and the development of technology has left behind disassociation and disintegration in men's lives. Before, man was "closer to life." The family was the centre of a great many things. The division of labor has deprived the family of a number of essential functions. Men and women nowadays have to specialize in one way or another.

Life is no longer able to teach us things. Technique has advanced in a spectacular way. Today we can hear and see over vast distances. But once we switch off the electric light and go out into the night, we understand nothing.

We do not know how things happen and how light comes to us. We understand nothing, we make no effort which would put us in contact with the world. We no longer go down to the fountain and see the water flowing. We have no cruche to fill and no time to reflect on the nature of things around us.

The world, I repeat, is no longer able to teach us. And we find that man, the victor in technical matters, is today an unhappy and anxious victor. He no longer knows where to turn. He no longer understands and he feels the presence of forces which are more powerful than he is which are leading him he knows not where.

Today we live in a troubled world. While advancing technique enables us to produce almost miraculous things, it does not allow us to develop that wisdom which shows us how to use them.

Education alone will give us back this wisdom. Education of the workers, education of adults, fundamentally it is a matter of respect for each other as individ-

uals. Let each man try to see himself as a person, and find out where he stands in relation to his environment, his work and the people around him; this will lead to better living in everyday life.

When a problem is understood as a problem, it ceases to be one. Education must develop two qualities of citizenship in every human being: **the sense of autonomy** (I must help myself by myself, I take my destiny into my own hands) and **the desire to help others** (I love my fellow-men and they love me). I believe that therein lies the true problem of our days.

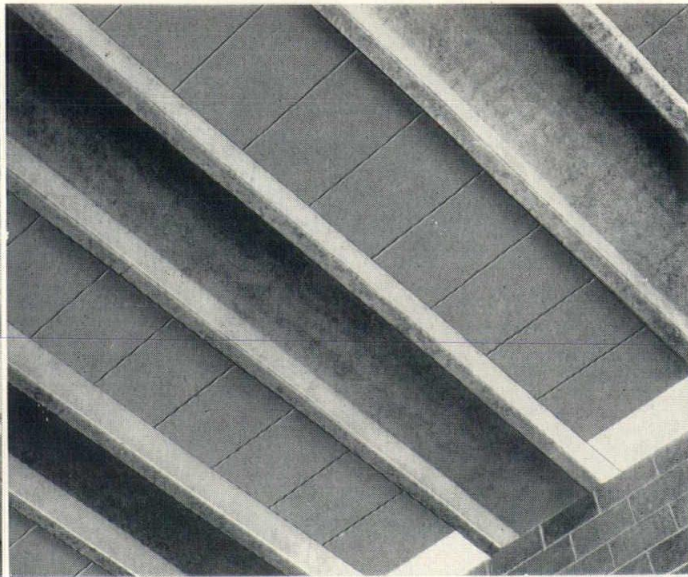
It is not a matter of making each human being into a library—he must be taught how to think. He must not be made merely a vast storehouse of knowledge, but a workshop for production; he must develop into a responsible man, able to act alone and with others. All man's faculties must be brought into play, not only his reasoning. We must learn to understand the world such as it is, to understand the problems of others and not to look at the world from the viewpoint of our own preconceived ideas.

Men must learn how to live together. Unless he is taught that it is wrong to believe that those who do not think as he does have no right to exist, there is no hope of building up a society of responsible individuals. There must be diversity in this society. Above all we must understand the points of view of other peoples.

We must educate with generosity, with the dignity of the human being as our constant concern. We must try to understand the problem of those whom the busy life of today tends to diminish in their own eyes and those of the world. We must build up a feeling of hope and regain confidence in ourselves and know why we regain confidence.

If we proceed in this way, we will attain the final goal of education: to enable man to judge the problems of his time so that to each he may find a solution that is worthy of man. This is also the goal towards which the combined efforts of all the peoples and nations at the Brussels International Exhibition are aimed.

It seems fitting that we reprint these comments in conjunction with the Minnesota Centennial because they indicate a stream of thought which should grow during the coming years and this area, as it leaves its childhood years and looks toward fuller growth, can well become a leader in the right direction of human endeavor. This material appeared in "Objectif—58" the excellent magazine which has kept the world informed of development of the Brussels Exposition during the past several years. It appeared in the current issue . . . The Editors.



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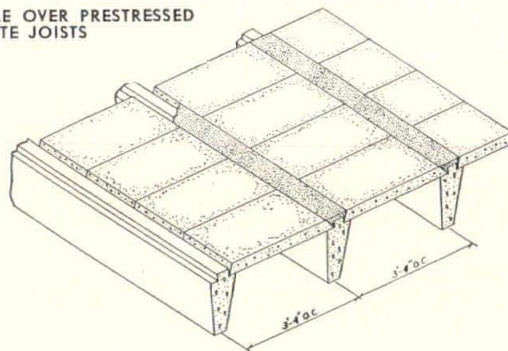
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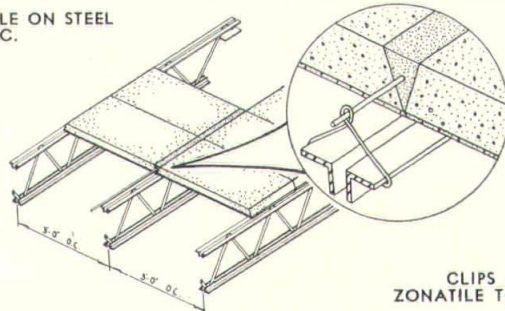
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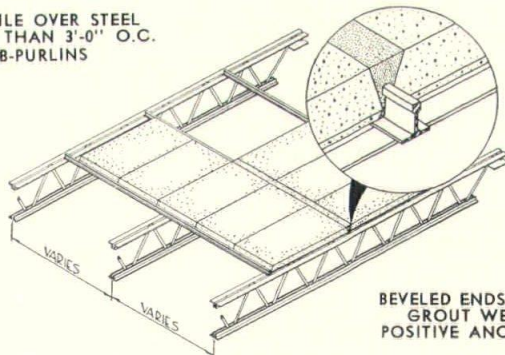


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50-Year Old Ellerbe Firm Looks to Future

With its advice already reflected in buildings worth a half billion dollars, Ellerbe and Company of St. Paul, architectural and engineering firm which recently observed its 50th anniversary, thinks the real building era is yet to come.

"The population increase is so staggering it will be a job soon to keep up with the need for schools, churches and industrial structures," said Thomas F. Ellerbe, president. "Then, too, we'll have to tear down much of the buildings of the last 75 years and redesign them on a modern functional basis. This is true in most of the cities of the world, including our own." Founded in 1907, the firm designed the early Mayo Clinic in Rochester and has served the clinic continuously since. It is one of the world's foremost designers of medical clinics (150 so far) and has designed about 100 hospitals scattered through 40 states, Canada, Syria, Colombia and Portugal.

Mr. Ellerbe said new structural materials will have to replace materials of the past. It seems in this modern age we could develop something better. Because prefabrication is becoming so important in construction, especially in our climate, Mr. Ellerbe believes the use of such materials as plastic, chemically processed wood products, aluminum and stainless steel will play increasingly important roles in architecture. The technology of adhesives, sealants and tapes has opened completely new fields.

While the firm is thought of primarily in the medical building field, Ellerbe and Company has built everything from the "world's most jiggle proof research building" for Minneapolis Honeywell Regulator Co. to a full scale U. S. Air Force base at Great Falls, Montana.

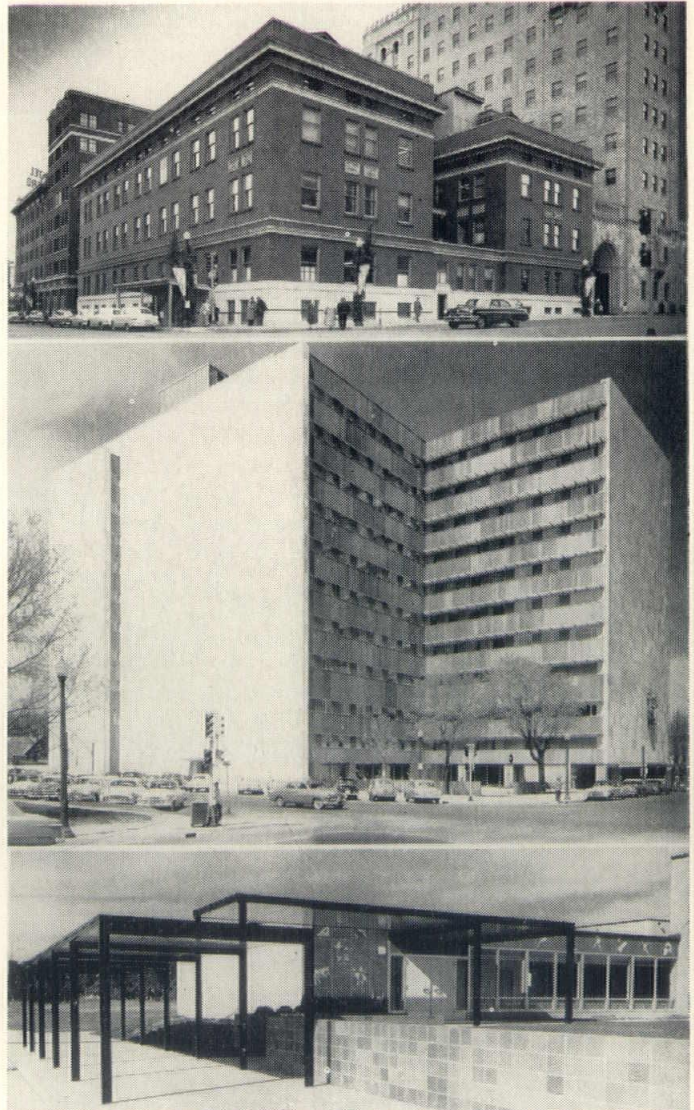
Some of their other nationally known clients include the Cleveland, Ohio, clinic, Remington Rand, Farmers Union Central Exchange, Minnesota Mutual Life Insurance Co., Mutual Services Insurance Co., State Farm Mutual Insurance Co., Minnesota Mining & Manufacturing Co., the Universities of Minnesota, Florida and Kentucky, the State of Minnesota and the Ochsner Foundation, New Orleans.

In Minnesota alone, it has designed 58 schools, 46 hospitals, eight clinics and 52 commercial, industrial and governmental buildings. In this last group the buildings range in diversity from the St. Paul City Hall and Court House to the Great Northern Oil Co. plant.

F. H. Ellerbe, founder, arrived in St. Paul at the turn of the century. He was a building inspector until 1907 when he established the firm. Three years later a partnership, Ellerbe and Rounds, was formed. Their

first major job was the Zumbro Hotel in Rochester in 1911. This was a most fortunate development for a young company because it led to a connection with the Mayo Clinic and numerous buildings in Rochester. The clinic work gave the firm much early prestige.

The hotel project happened by chance, it was pointed out. A young contractor who was to build it required the help of an architect. He knew Mr. Rounds and thus the firm obtained the commission. Mr. Ellerbe,



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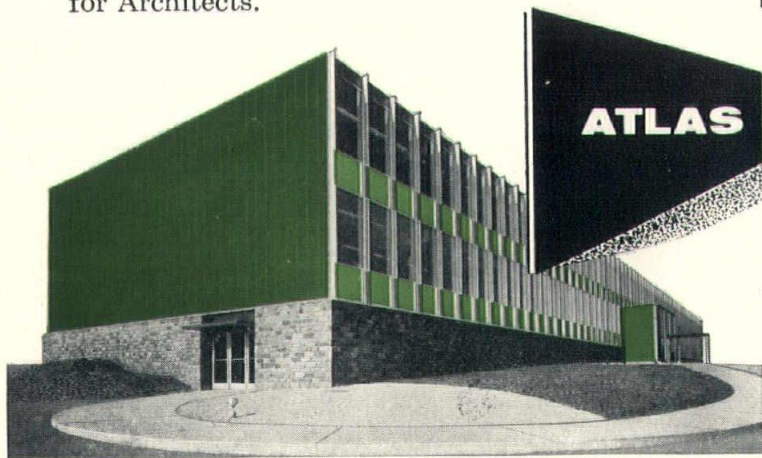
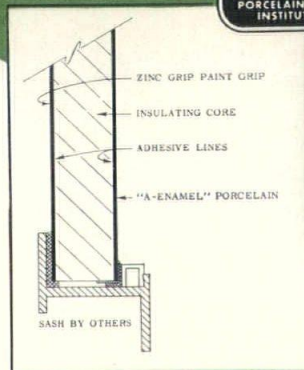
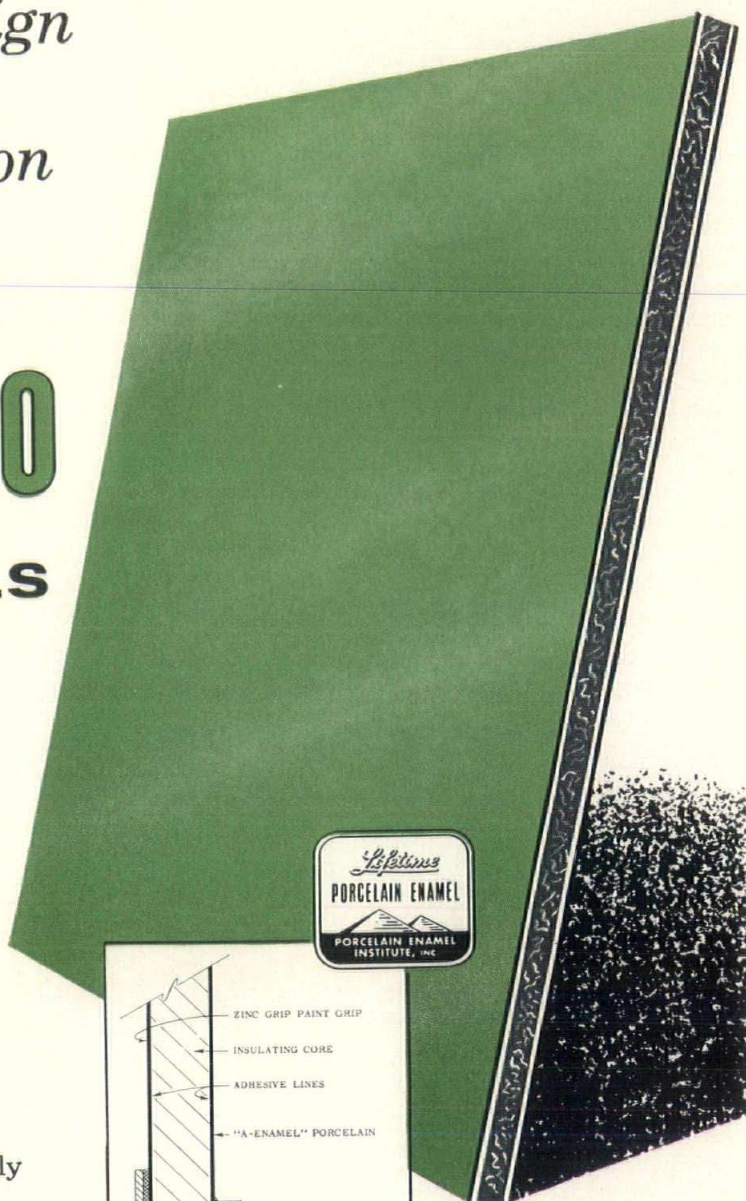
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One of four McDonnell Aircraft Corporation buildings for which Porcelo Panels were specified and installed. Architect: Harris Armstrong, St. Louis, Mo.

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in the course of time, became well acquainted with the people there, including the Mayo doctors. When the Mayos decided to build their clinic in 1913, they asked Mr. Ellerbe if he could handle it. It was a big project for those days but Mr. Ellerbe said he could handle it and they've been doing business there ever since.

First Ellerbe office was in the Endicott Building, three rooms and a file room. The standards of the profession were not so high then; for example, there was no outstanding school of architecture in this area. There was almost no research. Building codes were largely inadequate, though St. Paul had a fairly good one.

The Ellerbe and Rounds partnership was dissolved in 1914. An early Ellerbe characteristic was great stress on technical ability. For example, F. H. was an early advocate of reinforced concrete. He said this area had available sand and gravel so why not make use of it? He personally designed the structural frames.

Company Busy Though Young

For a young firm, Ellerbe and Co. was busy from 1914 to 1917. The list of its buildings included many well known structures and most of them still stand. The design of the period was mostly semi-traditional but the trend was toward simplification. Planning was edging toward the client's need and the company always felt that a good clean-cut plan would produce a good design.

There followed the period of the company's greatest ups and downs. This was a period of transitions, from traditional design to contemporary and from a small organization to a relatively large group. F. H. Ellerbe died and Tom Ellerbe carried on with the organization. In the early twenties the firm occupied space in the Endicott Building equal to about half of the present drafting rooms. There were from six to eight architectural men, one engineer and one secretary. The one secretary took care of the mailing, correspondence, telephone calls, did the bookkeeping and wrote all specifications. The one engineer did all of the mechanical, electrical and structural engineering.

The buildings done during the early twenties were all in the traditional style. Most of them had cornices even though they were six or eight stories high. It is interesting to note on the Cleveland hospital there was a grand stairway leading up to the main entrance—the more steps, the grander. Today Ellerbe designers won't allow a single step between the sidewalk and the entrance level in hospitals and clinics.

In 1927 the office was moved to the Minnesota Building and occupied practically a whole floor. The organization was increased to about 175 employees. Then the depression hit and the firm went from "boom" to "bust." In fact, they dropped from 175 employees on the payroll to none. It wasn't a case just of Ellerbe and Company being out of work; all architects were out of work and many left the profession, never to return.

Ellerbe and Company was a quarter century old in 1933 but there was no cause for celebration as the year opened. The reason was simple—there was no work. The office was on the eleventh floor of the Minnesota Building and there were five or six employees. The principal assets were Ellerbe and Company's repu-

tation, developed since 1907, Mr. Ellerbe's personal contacts and the ability of a handful of loyal employees. Then one day they got wonderful news as the assets paid off with a phone call from Sayre, Penn. The old wood hospital building had burned down, requiring the immediate design of the new Robert Packer Hospital. That put them back in business and on the way through the rest of the depression years.

Jobs having a total project cost of from \$5,000 to \$25,000 were common in those years and most jobs consisted of alterations or additions to existing facilities. However, these relatively lean years had their compensations because small but varied projects resulted in a wealth of experience and contact with many individuals and firms that are still among the Ellerbe clients.

It was during this period that the office went through the early stages of the development of modern or contemporary architecture as we know it. Gradually, the requirements of the owner became a greater and greater controlling factor. By the end of this period the philosophy of laying out a functional plan to fit the owner's requirements and then designing a structure to house it had become standard practice. Illuminating engineering began in this period and was aided materially by the introduction of the fluorescent light. Mechanical engineering was in the main limited to plumbing and heating. Structural engineering was still considered an architectural function. All engineering was done by a relatively few people working in the architectural section. Engineering for REA co-operatives began in this period and contributed a very substantial portion of the total amount of business done by Ellerbe and Company for several years.

Business was picking up and the tough times were behind Ellerbe and Company when World War II came. The firm adjusted. It had to because there was practically no civilian building. The problem was to find where Ellerbe fitted into the war effort. With a nucleus of a good design company behind him Mr. Ellerbe went out to get reacquainted with Army engineers and offer his facilities. The company got into air base work.

World War II Changeover Came

The first job was a minor one, designing utilities at the Rapid City, S. D., air base. Ellerbe furnished two men. Then they got a big project and an important one. It was to build an air base at Great Falls, Montana—all of it from design work to supervision. The company built a complete air base, with hospital, cantonment, mess halls, recreation halls, a chapel, three hangars, an ammunition storage dump and runways. Ellerbe and Company took the job April 17, 1942, and nine men proceeded to set up headquarters. Almost overnight they had a payroll of some 500 persons. They got personnel from the highway departments of North Dakota, South Dakota and Montana and managed to corral almost every architect in the area. It was a hurry-up job if there ever was one and the field was operational in six months.

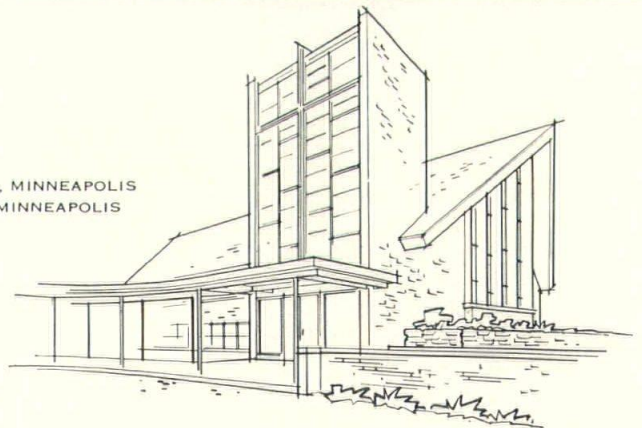
In the midst of all this flurry, the company was handed another assignment, to expand the Great Falls municipal airport into a \$7,000,000 field for the ferry-

(Continued on Page 39)

How to make structural



ARCHITECT—LIEBENBERG & KAPLAN, MINNEAPOLIS
CONTRACTOR—HENRY MIKKELSON, MINNEAPOLIS



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HERE, AS IN SO MANY of today's new buildings, you'll find architects relying on structural steel for both strength and beauty. Structural steel from Crown Iron Works in a good many instances, we might add.

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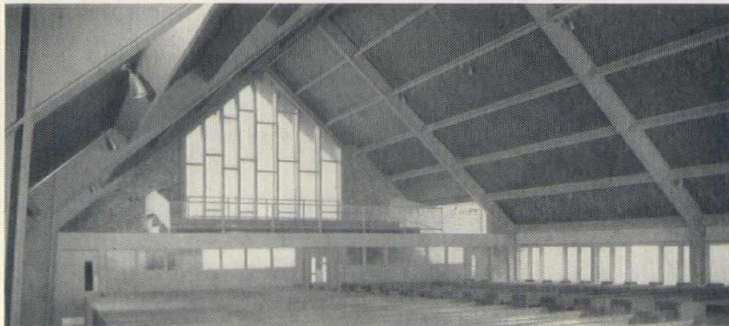
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The towering cross above the church entrance was fabricated from steel beams by Crown.



Stiff-legged steel girders, fabricated by Crown, harmonize with stained wood paneling to form the high arched ceiling. Notice the window placements, designed to allow maximum use of natural light within the church.

STEEL

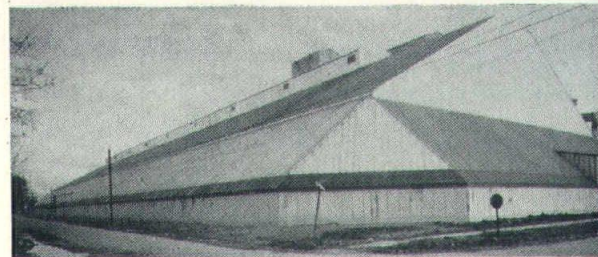
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Tons of steel for bushels of grain

There are 355 tons of PACAL steel in this massive grain storage building in Marion, Ohio—225 tons of structural, 130 tons of joists. Built for the Central Soya Company this giant granary can provide safe storage for approximately $2\frac{1}{2}$ million bushels of grain. In this photo, taken during construction, the ribbed ceiling, formed from a multiple of PACAL joists, is clearly visible. Here in Marion, Ohio, and throughout the midwest, you'll find steel fabricated by PACAL used in all types of construction.

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This view of the completed granary illustrates the impressive size of the building. Measuring 166 feet wide by 630 feet long, it is entirely of concrete and steel construction.

CONTRACTOR: CHRIS JENSEN COMPANY
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PACAL

ing command for all air traffic to Alaska and Russia. This was about the time the Japanese landed on Attu in the Aleutians. The military said later they were building at Great Falls the West Coast's first line of defense if the Japanese had attempted an invasion of the continent.

Growth of Ellerbe and Company, except for the depression years, has been steady. However, its biggest expansion has come since 1947 and in the past 10 years its personnel has increased from 101 to 288.

Architecture, like most other professions, has become more and more complex and it is now impossible for one man to know all there is to know. Not so many years ago the architect was responsible for—and could do—all of the architectural and engineering requirements of a building. Today this is not true; consequently, architects and engineers co-operate closely. Because of this increasing complexity, architects have found it advantageous to specialize and Ellerbe and Company is one of the leaders in this trend, it was pointed out. Specialization has not been confined to hospitals and clinics for they have specialists in schools, churches, office buildings, industrial buildings, research facilities, city planning and shopping centers and municipal and government buildings. There are also specialists in food service, hardware, decorations, etc.

Planning philosophy has gone through a transition, also. Gone are the days of squeezing a plan into a pre-

determined shape. Now the plan helps to determine the shape. Functional planning has developed over the years.

Today at Ellerbe and Company, company members pointed out, planning starts when they discuss with the client his needs and outline a program. This is a detailed analysis, a complete inventory of his needs. It includes the engineering as well as the architectural considerations. There follows a co-ordinated effort on the part of the planning and designing and engineering departments to develop a plan that solves the functional requirements of the client. At the same time the budget is considered and the scheme must be something reasonable to build.

Co-ordinated with the planning effort is a practical application of the architectural design considerations that make the building pleasing both inside and outside. This involves, for example, selection and placement of materials, the selection of colors, the use of art forms such as sculpture, paintings and ceramics, consultation on selection, color and placement of furniture and draperies, proper distribution of light and selection of lighting fixtures and development of the building site, etc.

We are indebted for this history of the Ellerbe enterprise to the speeches which marked the 50th anniversary party and from which we have edited these notes . . . The Editors.

WEEKLY TV SERIES PROMOTES BUILDING

"Building America," a new half-hour filmed weekly TV program series of special interest to architects and engineers, will make its debut in 200 cities this spring. Designed to be the multi-billion dollar construction industry's best foot forward on television, the program, nationally distributed by the Public Service Network of Princeton, N. J., is co-ordinated by The Producers' Council in association with the American Institute of Architects.

Consisting of four feature stories and an interview with an industry expert, the programs will frequently explore architectural techniques that cry for better public understanding. From week to week such essentially dramatic innovations as metal curtain wall construction, pre-stressed concrete forms and new concepts of outdoor-indoor living will be investigated to reveal their esthetic and functional roles.

As Leon W. Chatelain, Jr., AIA president, said in his interview on the first program soon to be released, "Every individual in this country has a stake in architecture. He is affected by it because it's where he works, plays and lives." Ten million of these individuals, it is estimated, will be reached by each program, which will appear in regular time periods, usually Sunday afternoon.

In response to Mr. Chatelain's further statement that the architect "must be an engineer, an artist, a business man and financial advisor," "Building America" will serve as a clearing house of professional information for architects and their clients, as well as for builders, contractors and dealers throughout the building industry.

The program will feature stories about home building and home improvement with insights into many aspects of community planning, public works, school building, recreational facilities, national defense and more. Interviews with the nation's top experts in these areas will reveal the problems involved and their methods of solution. It is designed to capitalize on the universal American interest in making home and hometown a better place to live in.

In addition to AIA and Producers' Council, support for "Building America" has come from such organizations as the Home Improvement Council, the National Association of Home Builders, the National Association of Plumbing Contractors, local chapters of the Associated General Contractors of America, the National Retail Lumber Dealers Association, the National Society of Professional Engineers, and NERSICA, Inc. Typical participants in the program are the Overhead Door Company, the West Coast Lumbermen's Association, Frigidaire Division of General Motors, the Allied Masonry Council, Crane Company, Ponderosa Pine Woodwork, Inc., and Unistrut Products Company.

The program draws upon informational films of its program participants. Program host for the show will be Norman Brokenshire. One of the deans of radio, Brokenshire has represented the building industry in his "Handyman" TV film series and "The Better Home Show."

Remember the Regional and your State Society's Conventions—remember and attend them!



MINNESOTA CHAPTER OF CONSTRUCTION SPECIFICATIONS INSTITUTE UNDERWAY

Following a recent organization meeting at which John C. Anderson of Hills, Gilbertson & Hayes, Minneapolis architects, was elected president, the new Minnesota Chapter of the Construction Specifications Institute is going ahead with its program.

Officers chosen to guide the group through its first active year are Pres. Anderson, Vice-president Milton "Lee" Dahlen of Hammel & Green, St. Paul architects, Sec.-Treas. Rollin B. Child of U. S. Ceramic Tile Co.,

(Continued on Page 45)

Our pictures here show (top, l-r) Architect Roy Thorshov of Thorshov & Cerny, Minneapolis, Mr. Parrish of Art Lucas Co., F. A. Irving and Harry Steele, Arrowhead Engineering & Construction, Duluth . . . (center) John Anderson of Hills, Gilbertson & Hayes, Minneapolis, Lee Dahlen of Hammel & Green, St. Paul, Jack Davis of Dicks-Armstrong-Pontiac, Inc., and Bill Montague of Pella Products, Minneapolis . . . (bottom) Dil Diessner, Dick Steenberg of Steenberg Construction, St. Paul, Irv Grudem of Grudem Bros., St. Paul, John Hanson of Bjorkman Bros. and John Kvalsten of Kvalsten Electric Co., Minneapolis.



Some of the institute's interested members are—1—Wayne Brock of Brock-White Co., Mark Winsor of Bissel & Belair, Arnie Hartwig of Saul Smiley & Associates and Jack Loveless of Bergstedt & Hirsch, St. Paul. . . 2—C. W. Durr of C. H. Johnson, St. Paul, Bob Deegan of H. H. Robertson, Bob Hanson of Patch & Erickson and George Otis of Edward Sales, Minneapolis. . . 3—Burt Flick of Bettenburg, Townsend, Stolte and Comb, St. Paul, C. I. James of Mosaic Tile Co., Fred Stockberger of LCN Closers and Jo Campe

of American-Olean Co. . . 4—George White of Brock-White Co., Del Diessner of C. O. Field Co., R. F. Nystrom of Naggle-Leck Co. and Jim Nystrom of James C. Nystrom Co. . . 5—Roy Haglund and Jack Olson of Armstrong Cork Co. and Frank Gilmore of Westinghouse Electric Elevator Div. . . 6—A. E. Nelson of Bissell & Blair, George Gohlke of Hauenstein & Burmeister, R. Grant of Roofing and Sheet Metal Contractors Association and Rollin Child of U. S. Ceramic Tile Co.

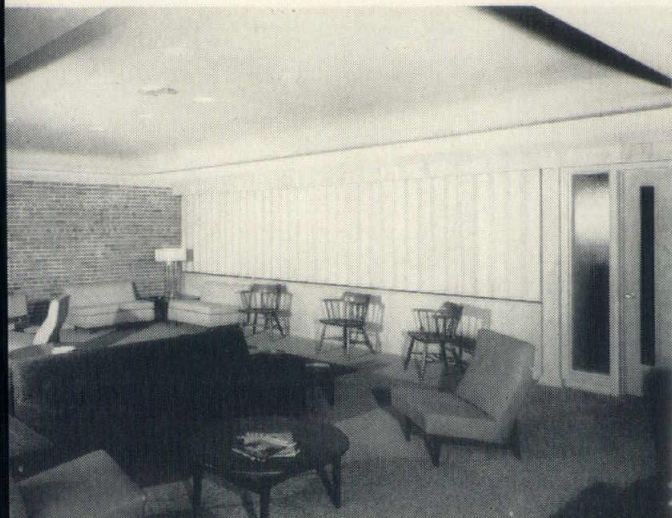


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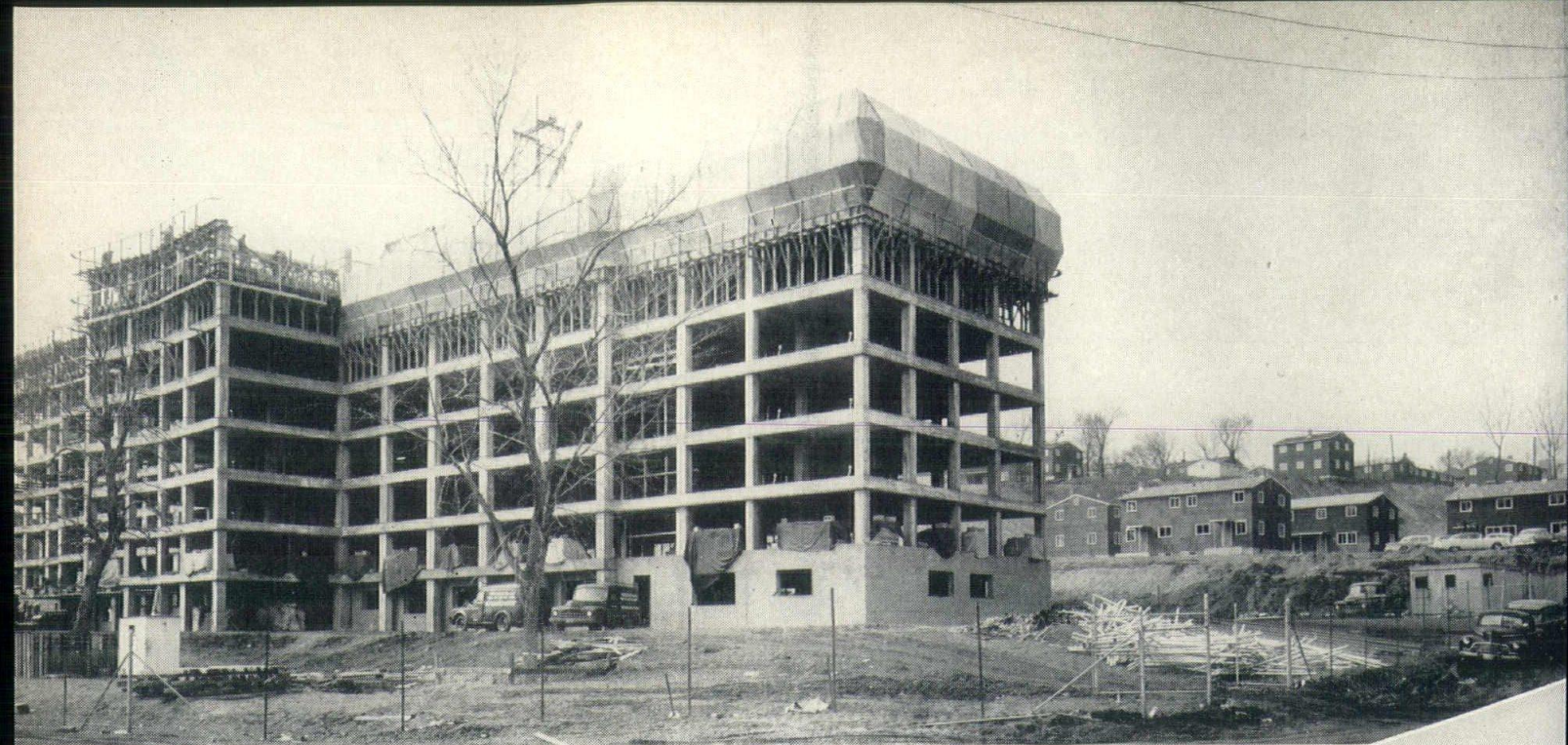
Golden Valley Country Club

Golden Valley, Minn.

Armstrong & Schlichting

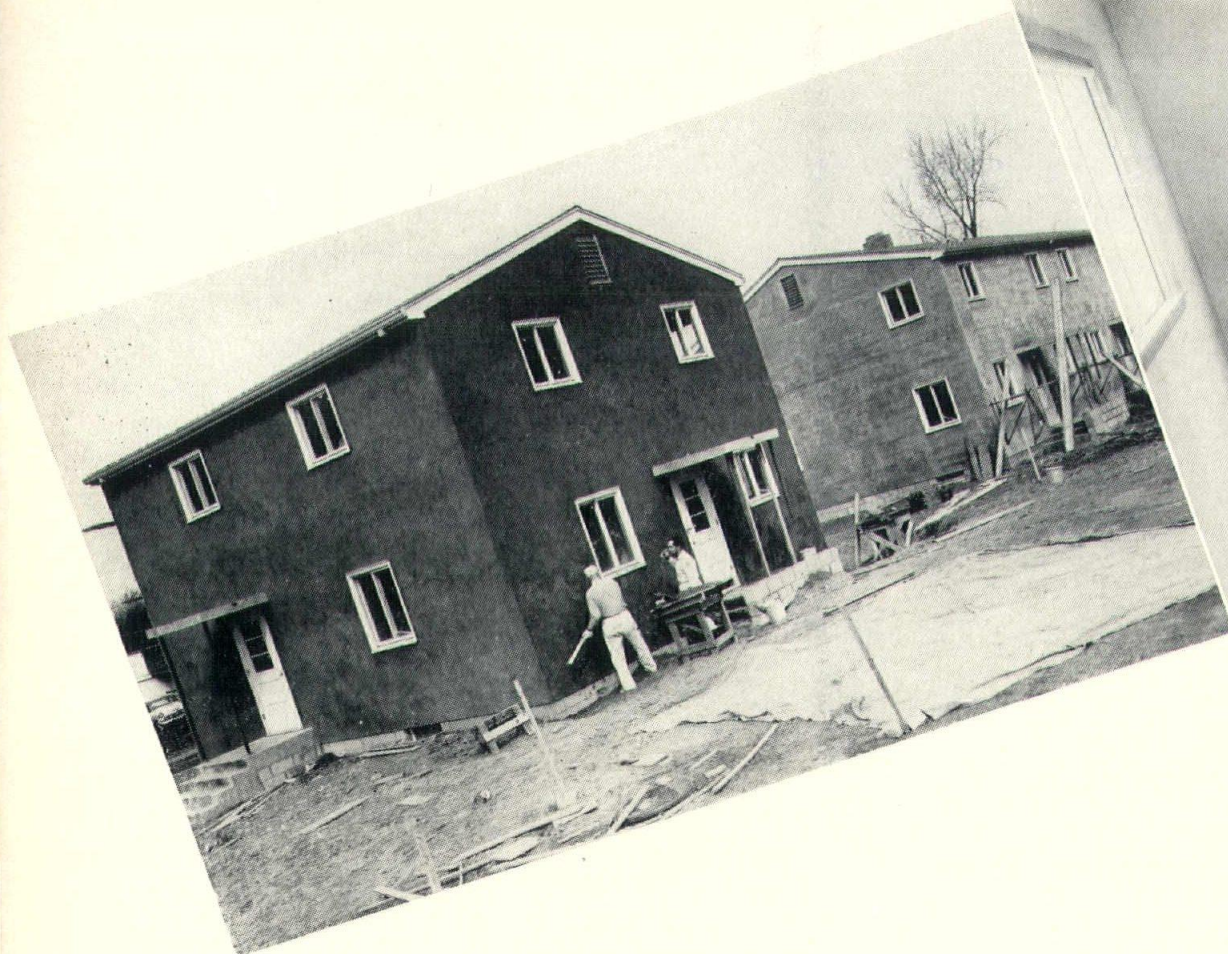
Minneapolis Architects

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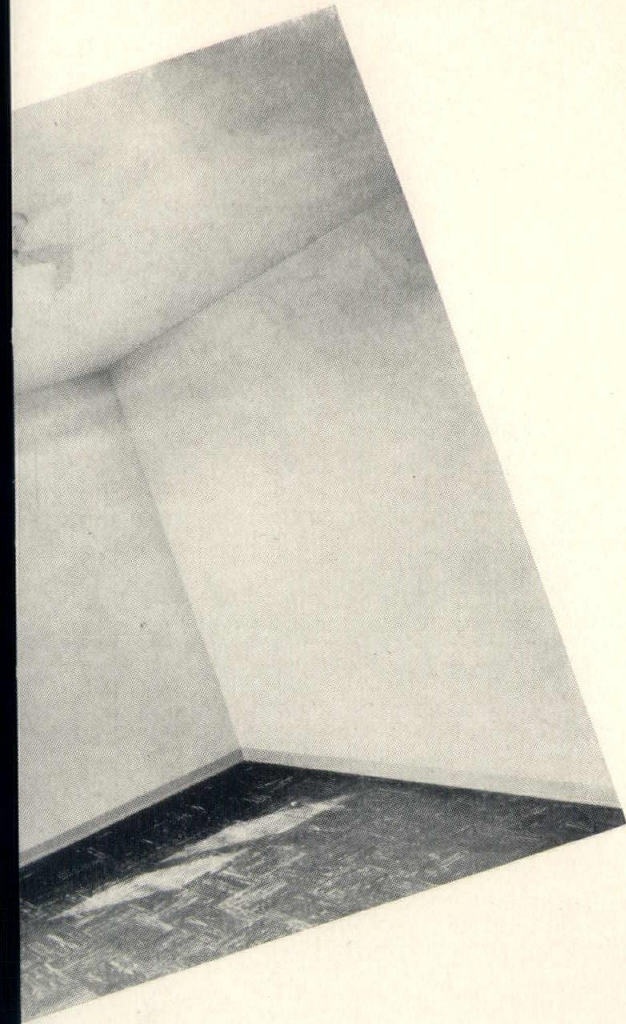
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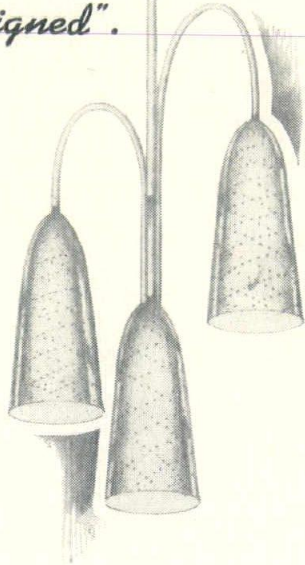
1912 Hennepin Ave., Minneapolis, Minn.



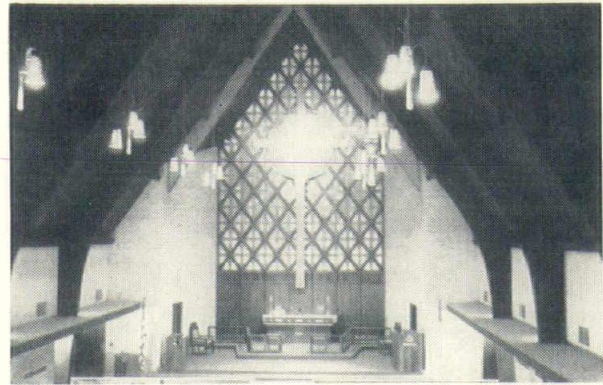
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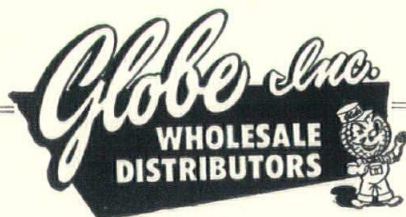
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Hopkins, and Directors Arnold W. Hartwig of S. C. Smiley & Associates, Minneapolis architects, Kenneth M. Wilson of E. F. Klinger & Associates, Eau Claire, Wis., architects and engineers, and George Otis of Edward Sales Corporation, Minneapolis. Roy N. Thorshov of Thorshov & Cerny, Minneapolis architects, is adviser for the chapter.

The first meeting was held in St. Paul and the attendance roster showed 25 active members, 15 associate members and five interested persons attending, for a total group of 45 persons. The 40 CSI members in attendance represented 67 per cent of the national CSI members in this area, there being approximately 60 members, Mr. Anderson said.

"It is interesting to note that the approximate number of 40 active members represented 27 firms which do architectural and engineering work and include firms in Minneapolis, St. Paul, Eau Claire, St. Cloud, Mankato and Sioux Falls and that the 20 associate members represented 20 or 30 firms or divisions of firms supplying materials or services to the industry in this same area," Mr. Anderson pointed out.

"The general purpose of this meeting was to approve the by-laws for the proposed chapter. They were presented by Roy Thorshov, chairman of the by-laws committee, and were approved by those active members present. We also elected our officers.

"In addition to our chapter's being a part of the national organization, we are also a part of a Midwest Chapters Council of the CSI. This consists of the following Chapters: Minnesota, Chicago, Cleveland, Detroit, Central Ohio, Ohio Valley, St. Louis and Wisconsin. The object of this group is to combine the efforts of the member chapters, publish a digest of information, meet for discussions of mutual problems, organize educational seminars and promote college courses in specification writing. Directors to this council from the Minnesota chapter are Kenneth M. Wilson of Eau Claire and Rollin B. Child of Hopkins and their alternates are John C. Anderson and George Otis of Minneapolis.

"We are alternating our monthly meetings between Minneapolis and St. Paul. Our program thus far is intended to stir members into having some definite ideas as to the needs of the CSI in our area and to acquaint others with our organization. We hope to accomplish this by having the following meetings:

- "1. Panel of engineers (we had this at the February meeting)
- "2. Panel of contractors (in March)
- "3. AIA-AGC informational meeting (April)
- "4. Panel of people behind building codes, etc.

"We now have established several committees. They are membership, Arnold Hartwig, chairman; program, Lee Dahlen, chairman; public relations, Kenneth Wilson, chairman; education, Norman Nagle, chairman; by-laws, Roy Thorshov, chairman; publication, John Anderson, chairman.

"A technical committee is now being organized to pursue a project to be later designated by the national technical committee (each chapter is assigned a specific project relating to specifications) and a number of sub-technical committees to co-operate with other chap-

ters in their specific projects (this means that every chapter has a sub-committee corresponding with a specific project of all other chapters to give a countrywide coverage to each assigned project)."

WIN CLOSE HEADS UNIVERSITY ARCHITECTS

New president of the Association of University Architects is Winston Close, who is advisory architect to the University of Minnesota and practices in Minneapolis in association with his wife, Elizabeth Close. He was elected to head the national group at its recent annual meeting in Gainesville, Florida.

CONCRETE INSTITUTE PICKS MC HENRY, FORMER MINNESOTAN

Douglas McHenry of the Portland Cement Association and Joseph W. Kelly of the University of California were named president and vice-president of the American Concrete Institute at its 54th annual convention in Chicago. Mr. McHenry succeeded Walter H. Price, head of the engineering laboratories, U. S. Bureau of Reclamation, Denver, as president.

Mr. McHenry attended the University of Minnesota from 1921 to 1924 and then joined the Southern California Edison Co., working on the Florence Lake and Shaver Dams. Before joining the staff of the Bureau of Reclamation in 1940, he served for six years with the Tennessee Valley Authority on construction of Norris and Hiwassee dams and power plants, and in research studies of the structural behavior of TVA works.

Joseph W. Kelly, professor and vice-chairman, department of civil engineering, University of California, Berkeley, graduated from Purdue University in 1921. In 1934 he received the Wason Medal for the paper "Cement Investigations for Boulder Dam with the Results up to the Age of One Year," prepared in collaboration with Raymond E. Davis, R. W. Carlson, and G. E. Troxell. In 1946 he received the ACI Construction Practice Award. Prof. Phil M. Ferguson, chairman of the civil engineering department, University of Texas, Austin, was elected to a two-year term as vice-president of the institute at the 1957 convention and will continue to serve in that capacity.

REYNOLDS AWARD JURY ANNOUNCED

The American Institute of Architects has announced the five architects to serve as the jury for the 1958 R. S. Reynolds Memorial Award for the best use of aluminum in architecture.

The Reynolds Award, which consists of a \$25,000 honorary payment plus an emblem, is international in character; therefore jurors were chosen from both the U. S. and abroad.

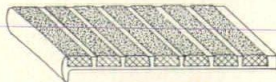
The jury was made up of: Richard J. Neutra of Los Angeles, Arthur Loomis Harmon of New York, J. Roy Carroll of Philadelphia, Richard M. Bennett of Chicago, and Pier Luigi Nervi of Rome, Italy.

The jury will meet in Washington, May 5 and 6, to consider nominations for the 1958 Award.

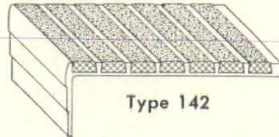
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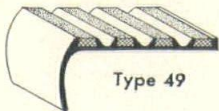


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SAFE GROOVE TREADS

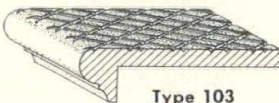


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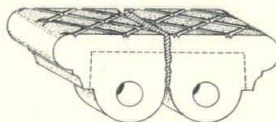


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ABRASIVE CAST TREADS



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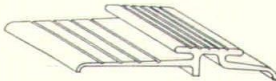


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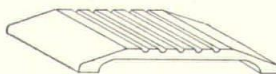


Shown are just a few typical examples. Portfolios of detail plates are available upon request. Our engineering department will cooperate in recommendations and specifications.

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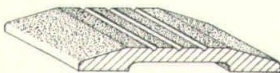


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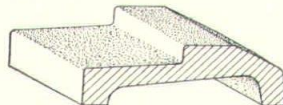


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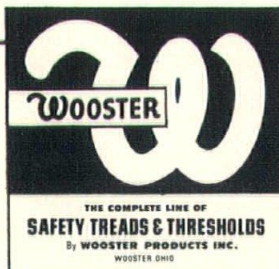
ABRASIVE CAST THRESHOLDS



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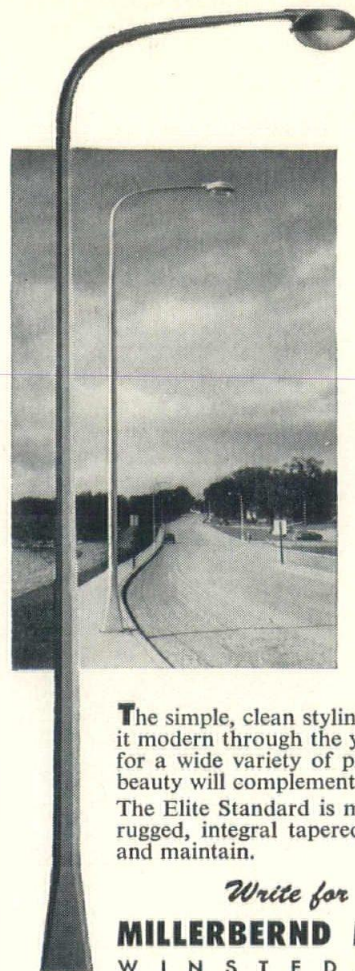


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PRODUCERS' COUNCIL PLANS CURTAIN WALL SEMINAR

Technological developments in curtain wall panel construction will be the subject of a building industry seminar on Thursday, May 8, at an all-day session in the Prom Ballroom, St. Paul. Architects, structural engineers, contractors and other interested people will have an opportunity to learn of the latest developments in this field resulting from the extensive research programs currently being conducted by many building products' manufacturers.

Speakers will be top research and product development people from participating organizations. All technical papers to be delivered during the seminar will be published later as a manual. This will be distributed to those persons attending the seminar.

The program is being sponsored by the Producers' Council in conjunction with its Minnesota-Dakota chapter. The seminar will also be highlighted by an exhibition of products utilized in this type of building.

This curtain wall panel construction seminar is the first of a series now being planned by the council. Others being developed will cover such subjects as plastics, acoustics and modular measure.

The program planned is as follows.

- 8:00 a.m.—Registration.
- 9:00 a.m.—Welcome by PC Chapter President, John C. Hustad, Jr.
- 9:05 a.m.—Introductory Speaker, Brooks Cavin, president, Minnesota Society of Architects.
- 9:15 a.m.—Moderator—Setting program theme, J. B. Bissell.
- 9:20 a.m.—Design and Fabrication, Donald Woodrow of Fenestra, Inc.
- 9:40 a.m.—Question Period No. 1.
- 9:50 a.m.—Aluminum, Grant Clark of Reynolds Metals Company.
- 10:10 a.m.—Question Period No. 2.
- 10:20 a.m.—Rest Period—Coffee—View Exhibits.
- 10:35 a.m.—Steel, Donald Evans of Armco Steel Corporation.
- 10:55 a.m.—Question Period No. 3.
- 11:05 a.m.—Glass, Otto Wenzler of Libbey, Owens, Ford.
- 11:25 a.m.—Question Period No. 4.
- 11:35 a.m.—Structural Clay Masonry, Willard Dikeman of Structural Clay Products Institute.
- 11:55 a.m.—Question Period No. 5.
- 12:05 p.m.—Cement, T. R. Hunt of Portland Cement Association.
- 12:25 p.m.—Question Period No. 6.
- 12:35 p.m.—Lunch—Arizona Room.
- 1:25 p.m.—View Exhibits.
- 1:55 p.m.—Moderator—Reconvene for afternoon session.
- 2:00 p.m.—Insulation, Daniel Morganroth of Owens Corning Fiberglas.
- 2:20 p.m.—Question Period No. 7.
- 2:30 p.m.—Back Up Materials, Cap Pratt of Zonolite Company.
- 2:50 p.m.—Question Period No. 8.

SEMINAR

SPEAKERS



Mr. Cavin



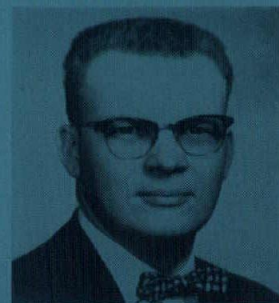
Mr. Hustad



Mr. Bissell



Mr. Paul



Mr. Alexander

- 3:00 p.m.—Joints, Flashing and Sealants, R. A. Chapman of Minnesota Mining & Manufacturing Company.
- 3:20 p.m.—Question Period No. 9.
- 3:30 p.m.—Rest Period—Coffee—View Exhibits.
- 3:45 p.m.—Erection, John S. Paul of Casewin, Inc.
- 4:05 p.m.—Question Period No. 10.
- 4:15 p.m.—Specifications, Kerby Alexander of Kawneer Company.
- 4:35 p.m.—Question Period No. 11.
- 4:45 p.m.—Seminar Adjourns—View Exhibits.

STARIN TELLS DULUTH GROUP OF ARCHITECTURAL HISTORY

The outstanding architects in the history of Duluth, Minn., were discussed by Harold S. Starin, Duluth architect, at a recent meeting of the St. Louis Historical Society. Mr. Starin briefly outlined the position in the city's history of the early architects and discussed the buildings each designed. He also worked into his talk a tracing of the styles of architecture through the years to the present "moderne" styles.

Mr. Starin, who has been in private practice in Duluth since 1923, formerly was an architect with the Oliver Mining Company during the moving and rebuilding of Hibbing. His Duluth structures include the Duluth Athletic Club, Minnesota Power & Light Company building and Jewish Educational Center.

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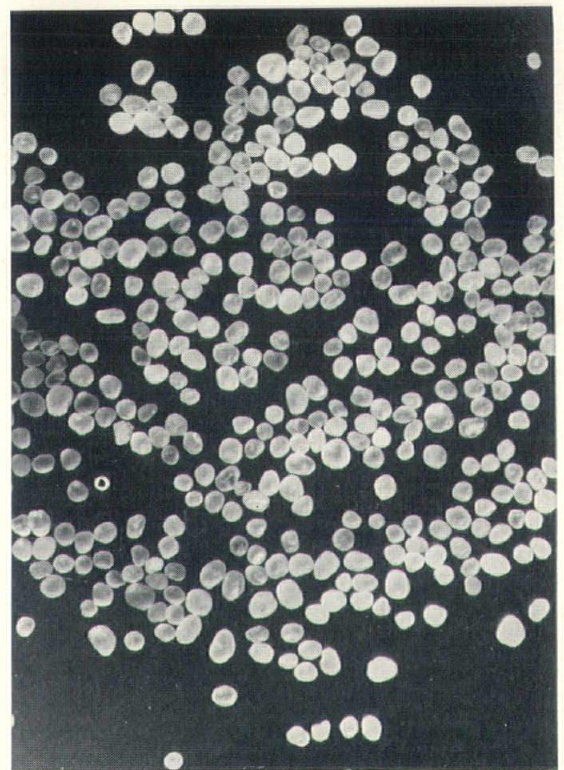
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MINNEAPOLIS BUILDERS HOLD ANNUAL DINNER



The 69th annual dinner of the Minneapolis Builders Exchange was held in that city recently, with Pres. Milton E. Nordstrom presiding, assisted by John Ganley, Paul Carlson, W. E. Neal and other exchange officers. The guests and members attending numbered several hundred and they were served cocktails before dinner, steak as their dinners and specialty acts afterward for a full evening.

Among those present were those shown in the two pictures above—(left) Pres. Nordstrom and Immediate Past Pres. Roy Bertlesen. . . . Pres. Jack Hustad of the Producers Council, Pres. Richard Steenberg of the St. Paul Builders Exchange and Architect John Magney.

Our montage shows—1—James Fenelon, executive director, Minnesota Society of Architects, Mayor P. K. Peterson of Minneapolis, Vern Larson and Joe Olson. . . . 2—Harry Burnett, Loch Allan, Doug Dunsheath and Herb Klippen, Duluth exchange president. . . .



3—Lloyd Peterson, Roy Howard, Duluth exchange secretary, Jim Fenelon and Joe Veranth. . . . 4—Henry Lambert, W. E. Neal and Paul Carlson. . . .

5—John McFarlane and Clifford Anderson. . . . 6—Paul Carlson, W. E. Neal and John Ganley. . . . 7—Milt Nordstrom, John Hanson and Joe Jester. . . . 8—Don Magnuson, Ray Thibodeau and Bill Meyer. . . . 9—D. C. Gramling, Lloyd Peterson and Bob Drake. . . . 10—Art Sahly and Sheely Palmer.

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Chapter, Club and other news . . .

NORTH CENTRAL REGIONAL CONFERENCE COMMITTEES NAMED

Committees which will shape up the various activities for the North Central States Regional AIA Conference in St. Paul, October 2 and 3, have been named,



Mr. Flynn

according to Gene Flynn, general conference chairman. Those named are as follows:

Registration—William Shannon, chairman, and Lee Dahlin.

Program and ticket design—George Rafferty, chairman.

Product exhibition—James Fenlon, chairman, and Kenneth Buetow.

Architects exhibition (honor awards)—Robert Howe, chairman.

Seminars, luncheon programs (and hotel arrangements)—James Voigt, chairman, Milton Bergstedt, Clark Wold and Richard Cone.

Hospitality—Curley Roberts, chairman, and Robert McGee.

Tours—Robert Ames, chairman.

Business meetings—Brooks Cavin, chairman.

Publicity—Robert Howe, chairman.

Treasurer—Myron Kehne, chairman.

Ladies' program—Eileen Ames, chairman.

HILLS, GILBERTSON & HAYES GET CHURCH DESIGN HONOR

A distinctive design award in the 1958 Competition in Catholic Institutional Design was given to Hills, Gilbertson & Hayes, Minneapolis architects, for their design of Holy Name Convent in Minneapolis. The building, designed to house 16 sisters, includes a chapel, dining hall, study and recreational facilities and private quarters for the sisters. It was dedicated about a year ago.

LARRY HOVIK OF ELLERBE DIES FROM CANCER

Lawrence E. "Larry" Hovik, well known architect with Ellerbe & Co., St. Paul, died on March 28 from a brain cancer. A corporate member of AIA, he was a



Mr. Hovik

graduate of the University of Minnesota, a native of Minneapolis.

Graduated from the university in 1929, Mr. Hovik went from there to the Massachusetts Institute of Technology, graduating there in 1935 to go on a year's traveling scholarship and study city planning in London under Dr. Thomas Adams. While at MIT he won a Carnegie scholarship and became a member of Phi Sigma Kappa. In England he also studied with Sir Raymond Unwin at that architect's projects in Hampstead, Letchworth and Welwyn Garden City.

Mr. Hovik was a past president of the St. Paul Chapter, AIA, member of the American Institute of City Planning Officials, the Gargoyle Club in St. Paul and other groups.

During World War II he was a project adviser to the government on war housing, later joining the Lincoln, Neb., chamber of commerce as director of planning. In Lincoln he completed preliminary master plans for the community's future development, left to join Ellerbe & Co., as planner of the Circle Pines development. His work at Ellerbe's was that of planner and architect.

Mr. Hovik is survived by his wife, Madeline, father, Lars Hovik of Minneapolis, a sister, nieces and nephews.

WE'RE REVISING OUR SCHEDULES

The publication schedules of NORTHWEST ARCHITECT are at present in a state of flux for several reasons. The current issue was held so its issue would coincide with Minnesota's centennial celebration month of May and precede Statehood Day. Following this our scheduling will be advanced to bring mailing of the magazine up to the middle of the two months' dating; i.e., our July-August issue will be closed July 1 for mailing the last of that month. We hope our readers will be pleased with this change in our schedules and those who work with us on production of the magazine will co-operate fully. . . . The Editors.



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TWO HAARSTICK LUNDGREN BUILDINGS GIVEN NATIONAL HONORS

St. Joseph's Convent in West St. Paul and Burnsville School near Savage, Minn., have won national recognition for excellence in design for Haarstick Lundgren & Associates of St. Paul. The convent received the distinctive design award in the 1958 Competition in Catholic Institutional Design and the Burnsville School was a winner in the better school design competition conducted by *School Executive Magazine*.

Pictures of both structures were used in the monograph on the work of this firm published in *NORTHWEST ARCHITECT'S* September-October, 1957, issue, pages 28 and 29.

The purpose of the church competition, sponsored by Catholic Property Administration, is "to encourage creative design for liturgical, functional and esthetic Catholic structures and to encourage effective utilization of building materials." The two-story building, designed to house 20 sisters, was dedicated a year ago. It is designed for future expansion to accommodate 30 persons, and provides chapel, dining, study and recreation facilities as well as private living quarters for each sister.

The convent is of wood frame construction, with masonry and cement plaster exterior and reinforced concrete basement. The exterior brick pattern used matches the exterior of the church and school on the same site. Architect in charge of the St. Joseph's work was Robert T. Jackels.

The school, only award winner in Minnesota, was dedicated in the spring of 1957 and was cited for its "suitability for good social living and pleasant surroundings, conducive to educational aims of the curriculum." The structure houses primary, elementary, junior and senior high school facilities. It will accommodate 250 high and 360 elementary students.

Built on reinforced concrete frame, it has a masonry and curtain wall exterior. The curtain walls have aluminum frames holding reinforced fiber panels which are painted. It has 16 classrooms, library, multi-purpose activities area and specialized teaching facilities. Construction cost was \$1,213,870, which included \$32,000 for land and \$82,700 for equipment.

MAGNEY TALKS AT MASONRY SEMINAR

Architect John R. Magney of Minneapolis was a featured speaker at the Third Annual Modern Masonry Seminar in Washington, D. C., recently, speaking on "Modular Measure," on which he is a well known authority.

Mr. Magney, a partner in Magney, Tusler and Setter, Minneapolis architects and engineers, recently was presented the Modular Award for Design by the American Standards Association. He was cited for "encouraging the use of more orderly and economical building standards in the nation."

The Modern Masonry Seminar was sponsored by the

Structural Clay Products Institute for government engineers and architects.

MTS MAKE VASATKA STRUCTURAL HEAD

Richard Vasatka has been named head of the structural department of Magney, Tusler and Setter, Minneapolis architects and engineers, according to W. H.



Mr. Vasatka

Tusler. Mr. Vasatka succeeds Jack Borgman, who resigned to enter business for himself.

A graduate of the Institute of Technology at the University of Minnesota in 1952, Mr. Vasatka served as a lieutenant in the U. S. Corps of Engineers from 1952 through 1954, assigned to air base construction work in the Northeast Air Command. His duty tour took him to Greenland, Newfoundland and Labrador. Following his military service, he returned to Minnesota and joined Magney, Tusler and Setter in April of 1955.

PLANNERS NAMED

Community planning is taking vigorous steps forward all over this area, according to reports from large and small cities. The Twin Cities area's news of this sort contains appointment of Lawrence Irvin, formerly director of slum clearance in Columbus, Ohio, as director of the Minneapolis Planning Commission; naming of Herbert C. Wieldand, from Lawrence, Mass., as planning director for St. Paul; and selection of John E. Vance, former chief of planning for the Rhode Island Development Council, as assistant director of The Twin Cities Metropolitan Planning Commission of which Dave Loeks, former St. Paul director, is head man.

CATHCART, DULUTH ARCHITECT, DIES FROM HEART ATTACK

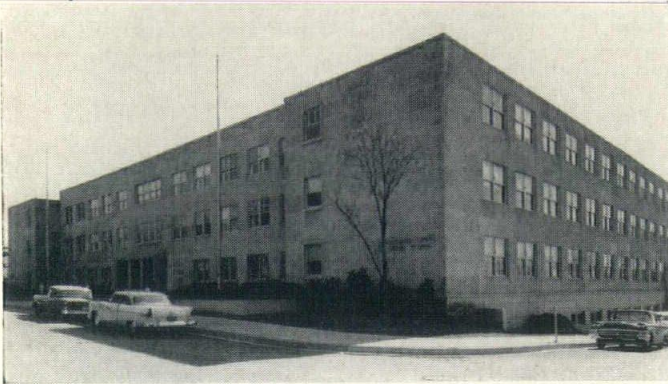
Richard W. Cathcart, Duluth architect who was a former resident of St. Paul, died recently from a heart attack at the age of 51 in a Minneapolis hotel room while on a business trip. Mr. Cathcart moved to Duluth from St. Paul in 1947 and was a partner in the architectural firm of Ellingson and Associates.



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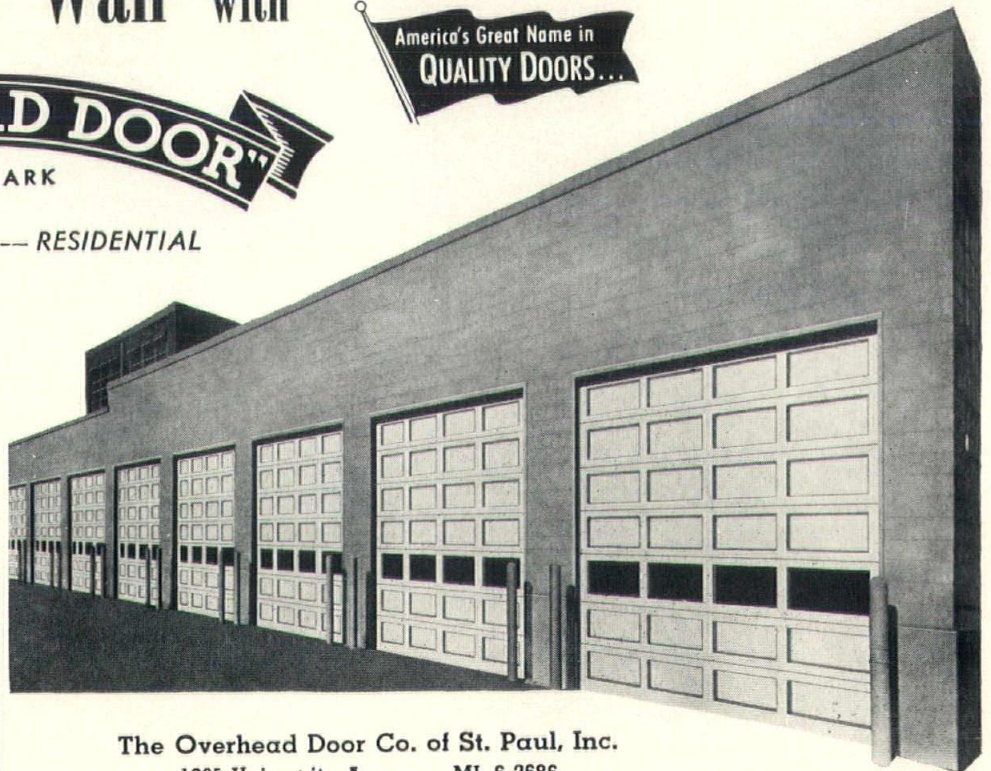
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FREERKS AND SPERL BECOME HAMMEL AND GREEN V-P's

Eugene L. Freerks and Robert H. Sperl have been named vice-presidents of Hammel and Green, architects, St. Paul, effective April 1.

Mr. Freerks graduated from the University of Minnesota and was a lecturer in the School of Architecture in 1956. He received a Fulbright Scholarship for Research in Postwar Religious Architecture of Germany and served as guest critic and lecturer at Technische Hochschule, Darmstadt, Germany, in 1956 and 1957 in connection with his graduate work.

Currently he is one of the consulting architects for the Minnesota State College Board, working on the master plan for the campus extension of Mankato State College. Some of the schools and churches which Mr. Freerks has designed include the Cemetery Chapel in Zeppelngheim, Germany, Pilgrimage Church of the Weeping Madonna in Syracuse, Sicily, Church of The Reformation in St. Louis Park, Minn., Bethel Lutheran Church in Wahpeton, N. D.; Unity Church in St. Paul, Dassel Public Schools in Dassel, Minn., and Alden Public Schools in Alden, Minn.

Mr. Sperl graduated from the University of Minnesota and the Harvard Graduate School of Design. A registered professional architect, Sperl has been associated with Hammel and Green since 1956, with experience in the church, school and industrial architectural fields. He has been in charge of many architectural projects, including the recently completed Golden Valley High School and the new Inter-City Paper Company building. Currently he is project architect for the Willmar State Hospital Service Building, now under construction.

AMERICAN PLANNING CONVENTION TO BE IN MINNEAPOLIS IN 1959

Some 1,500 persons are expected to attend the 1959 convention of the American Society of Planning Officials when it is held in Minneapolis, according to word from Ed Swanson, Edina planning director, reported in the *Minnesota Community Planning Newsletter*. Attendance will draw from all states and from some foreign countries as well. The 1958 convention is being held in May in Washington, D. C.

AIA-AGC JOINT REPORTS BEING PREPARED FOR ISSUANCE

Subcommittees of the Minnesota Joint AIA-AGC Cooperative Committee are readying reports of importance to architects and contractors on revision of the (1) Standard Check List For Specification Titles and (2) Time of Completion and a Specification for Liquidated Damages.

Present status of the Standard Check List For Specification Titles, after 14 meetings of the subcommittee studying revision, is at a point where consulting engineers are being asked to suggest revisions they deem advisable in their respective sections of the check list. The report on Time of Completion and Liquidated Damages is awaiting approval for issuance pending



Messrs. Freerks and Sperl

further work in connection with co-ordination of other parts of the specifications.

Both reports are expected to be completed and issued to the industry prior to the adjournment of the committee for the summer recess expected to start in June.

CORDING BECOMES CORPORATE AIA MEMBER

Glenn W. Cording was recently advanced to corporate membership in the American Institute of Architects, according to the Minnesota Society's office. Mr. Cording is a partner in the firm of Cording and Mastny, Architects, Minneapolis. He is a member of the Minnesota Chapter of the Construction Specifications Institute and the Minneapolis Chapter of the M.S.A.

The firm of Cording and Mastny was organized in November, 1957. The partners, Mr. Cording and George G. Mastny, received their architectural degrees from the University of Minnesota and have been associated with architectural work in this area for ten years.

Mr. Cording was with the firm of Hills, Gilbertson and Hayes, Minneapolis architects, since 1947. Mr. Mastny carried on a private practice in Long Lake and has been with the architectural firms of R. V. McCann, Lang and Rangland and H. W. Fridlund. He also is a corporate member of A.I.A.

Presently the firm is engaged in a general practice of architecture including church, school, commercial and residential work. It is registered in Minnesota and Wisconsin and with the National Council of Architectural Registration Boards.

SOUTH DAKOTA FIRM CHANGES NAME

Craig & Whitwam Associates is the new name for the former business of Lucas, Craig & Whitman, whose offices are in Rapid City and Sioux Falls, S. D. Mr. Lucas has left the firm to establish his own practice in Sioux Falls. The firm is listed as architects and engineers and does commercial, institutional and residential design. Ward Whitman will be in charge of the Sioux Falls office and Ralph Craig will be in the Rapid City office.

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MINNESOTA'S RAPSON IN GROUP TO STUDY GERMAN POST-WAR DEVELOPMENT

Ralph Rapson, head of the School of Architecture at the University of Minnesota, has been selected as one of a group of American architects who will tour West Germany at the invitation of the Bonn government. The group will have an opportunity to study development of architecture and reconstruction in the western zones. The trip will cover the period from April 20 to May 20 and following his return NORTHWEST ARCHITECT hopes to present comments by Mr. Rapson on what he saw.

The invitation from the Staatssekretar in Bonn to Mr. Rapson said in part:

"On behalf of the German Federal Government I have the honor to invite you on a four weeks' study tour of the Federal Republic and Berlin (West) as guest of the Federal Government. This study tour is intended to enable you to acquaint yourself with the new Germany. You will be given opportunities to become familiar with conditions in the Federal Republic in general and in your own sphere of interest in particular. As guest of the Federal Government you will meet leading personalities in public, political and cultural life and be able to discuss with them questions of interest to you. Furthermore, the program provides for sufficient time so as to give you every opportunity to study our conditions from your own point of view."

MONTANANS CONFER

The Billings, Montana, Architects' Association was host to the recent state conference of the Montana Chapter of AIA, at which some 100 members of the profession gathered. Oswald J. Berg of Bozeman presided as state president.

The full program included regular business and speakers from architectural and allied fields. Elisabeth Thompson, Berkeley, Cal., spoke as West Coast editor of *Architectural Record*, and Donald J. Stewart of Portland, Ore., brought official greetings as Northwest District AIA director. Jack R. Gage of Sheridan, Wyo., past district governor for Rotary International, was the speaker at the banquet and told his listeners that "Moscow Would Be a Surprise to You."

Lewy Evans is president of the host chapter and his planning committee was under the chairmanship of John E. Toohey. There was a product exhibit in connection with the conference.

ELLERBE ANNOUNCES APPOINTMENTS IN ROCHESTER OFFICE

John F. Brengman, formerly assistant to the late Edgar Buenger, has been named by Ellerbe & Company to take over Mr. Buenger's post as office co-ordinator in Rochester, Minn. Mr. Brengman was in the company's Rochester office for 10 years, preceded by three years in the St. Paul office. He is a member of the city planning commission.

Also announced were transfers of Robert L. Dunn and L. William Pose from the St. Paul office to Rochester. Both are graduates of the school of architecture at the University of Minnesota.

PAYNE OF SIOUX FALLS WINS FLOOR DESIGN PRIZE



Shown here is Leonard Payne of Sioux Falls, S. D., who is associated with Harold Spitznagel and Associates, architects of that city, as he received the plaque award in the rubber floor design awards competition announced recently from R. R. Ormsby, president of the Rubber Manufacturers Association. The award carried a cash prize of \$1,500 and Mr. Payne's design for the McKennan Hospital in Sioux Falls was the winner. The design was made up of an unusual arrangement of alternate gray and off-white rubber tile strips which minimized the tunnel effect of long corridors.

MILWAUKEEAN GETS MENTION IN CHURCH CONTEST

An honorable mention has gone to William P. Wenzler of Milwaukee for his design of St. Edmund's Episcopal Church in the recent design competition of the Church Architectural Guild of America. The church is noted for its "hyperbolic paraboloid roof."

WAUSAU STUDENT PLACES

A fourth place was achieved by Robert L. Paynter, Wausau, Wis., with his design for a historical museum for the AFL-CIO in the competition sponsored by the National Institute for Architectural Education. Mr. Paynter is a student at the University of Illinois school of architecture. The competition was nationwide.

JANESVILLE FIRM EXPANDS

Frelich-Angus and Associates is the new name of the Janesville, Wis., firm formerly known as Lincoln Frelich and Associates, the change reflecting an expansion in the staff of the firm.

The company, started in 1954 by Lincoln Frelich and Stanley Anaker in Elkhorn, was moved to Janesville in 1955. James Angus joined the firm in 1956 and under the present name change Roger Young has become an associate of the group. The architects have designed a number of structures in and around Janesville, including fire stations, banks, medical center, club houses and other buildings.

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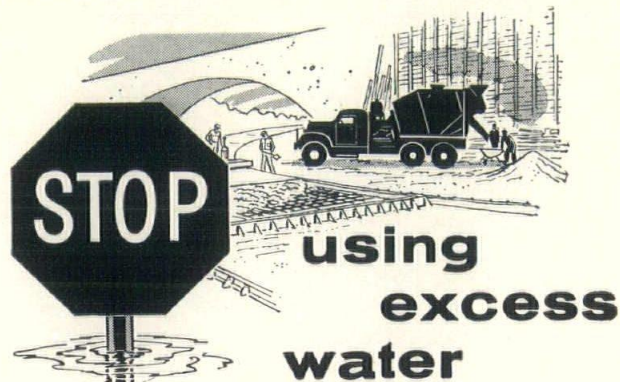
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ST. PAUL HOME-A-RAMA RAMA DRAWS CROWDS

Avoiding the crowds at the regular showings of the St. Paul Home-a-Rama, sponsored by the St. Paul Builders Exchange, a group of architects and others in the construction industry were special guests at a preliminary showing of the exposition. Our pictures show some who attended (left-right in each case).

Architect George Darrell, Norm Reuterdaahl and Earl Wilson watch giant water stream at Culligan exhibit. . . . Walter Baumeister, builders' exchange treasurer, presents registration award to Linan Foss of the Zimmerman Realty Co., while George Withy, show chairman, Pat Anderson, exchange secretary, Ray Thibodeau and Bob Tilsen, St. Paul Home Builders president, watch. . . . Curt Johnson of Pella Products and Architect Maurice Breslaw.

Gerhard Peterson, E. Richard Cone and Ed Canton. . . . City of St. Paul School architects Ken Buetow, Gene Flynn and Sheldon Bernstein.

Architects Mel Ruhland and Bob Felault with Clint Fladland of Western Mineral Products. . . . Architects Charles Hausler, Al Larson and Magnus Jemne with builder Jack Donohue.

Ken Swanson of St. Paul Cement Works and Rolly Kahnert of Standard Building Materials. . . . Ken Peterson and Matt Madsen, Jr.

Ed Sroder, Jr., Philip Agnew and Harold Raak. . . . Bill Lee, Holger Mortenson and Dick Weatherston.

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Producers Council Puts On St. Paul Product Show

More than 300 St. Paul and area architects and engineers saw displays of products of members of the Producers Council when the Minnesota-Dakotas Chapter of PC held a recent show in a St. Paul hotel. A luncheon preceded the showing. Products and methods were discussed and questions of the design and construction men were answered by representatives on duty in the booths. Our pictures show some of the many who were there, in each case left to right.

The three pictures here show (top) Jack Kartes of

C. E. Sparrow Co., Lars Ljangkull, engineer, and Cec Ammerman of C. L. Ammerman Co. . . . (center) Bill Montogue of Pella Products, Sam Balkin and E. T. Ready of Minnesota Mining & Manufacturing Co. . . . (bottom) Earl Brink, architect with Prestressed Con-

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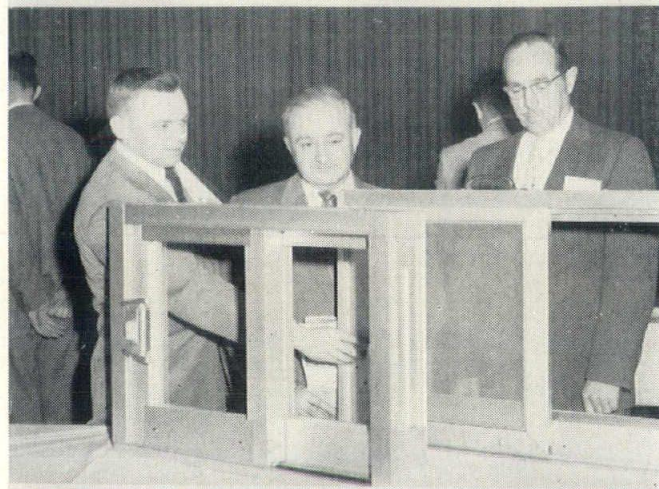
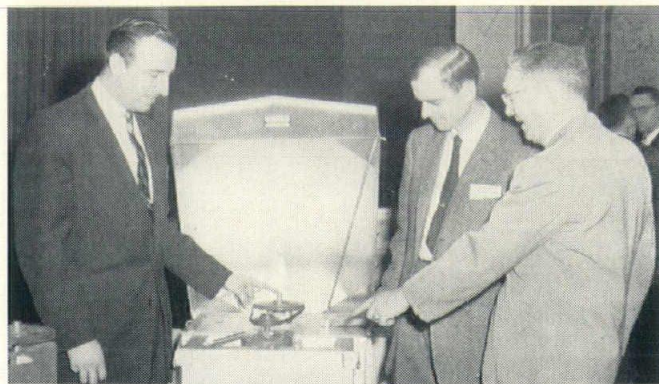
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crete, Inc., Bob Chadwick and Clint Fladland of Western Mineral Products.

The montage shows (row by row)—Jack Forciea and George Otis of Edward Sales and E. H. Chum, U. S. Corps of Engineers. . . . Architects Willis Loomis, Carl Buetow and Everett Holes. . . . Six Benson and Norb Eggert of U. S. Plywood and (center) Charles Berg, architect. . . .

Dean Paradeau of Andersen Corporation and Archi-

NORTHWEST ARCHITECT



Architects Mel Ruhland, Andrew Demcak and Dick Hildebrand. . . . Architects Frank Kelly, Allan Wessel, U. Murray and Don Wright with Larry Ward of Gardner Hardware. . . . Ken Onstad and Dewey Broden of Mosaic Tile Co., Frank Kelly and E. T. Bastis. . .

Architects Gordon Comb and George Townsend with Con Aas and John Werket of Northern States Power Co. . . . Earl Brink with John Hartmann. . . . Architect R. E. Barlow and Chuck Wetzler, Structural Clay Products Institute. . . . Jarl Seppanen and Jim Coulter, Keelor Steel Co. . . .

Jack Hustad, The Hustad Co., and Architects Lee Dahlen and Edwin Lundie. . . . Howard Page, Cooper Page Co., Albert Thompson and Jene Sigvertsen. . . . Architects Howard Kelby, Robert McNiesh and Bill Ingeman and John Barr, American Radiator & Standard Sanitary Corp. . . .

Jim McNulty and Orv Bjorklund of Rolscreen Co., with Architect A. G. Plagens in center. . . . Architects John Kelsey and Mart Dockendorff with Bill Price of Kawneer Co. . . . Architects Holger Mortensson, O. B. Paulson, Ray Gauger and Eugene Nolden.

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**MINNEAPOLIS MAYOR SEES CONSTRUCTION
TOTTALLING \$50,000,000 IN 1958**

During 1958 some \$50,000,000 worth of public construction will begin in Minneapolis, according to Mayor P. K. Peterson, whose statement was made at a special meeting recently. Largest batch of work will be under authority of the Metropolitan Airports Commission, whose plans call for \$24,000,000 worth of work. The University of Minnesota's figures run around \$11,475,000, according to a report from Roy Lund.

Public housing will be in the neighborhood of \$10,000,000, new schools and rehabilitation will total \$2,775,000 and various other items will account for the balance. On top of this public work will be the private construction.

MILWAUKEEAN WINS LIGHTING AWARD

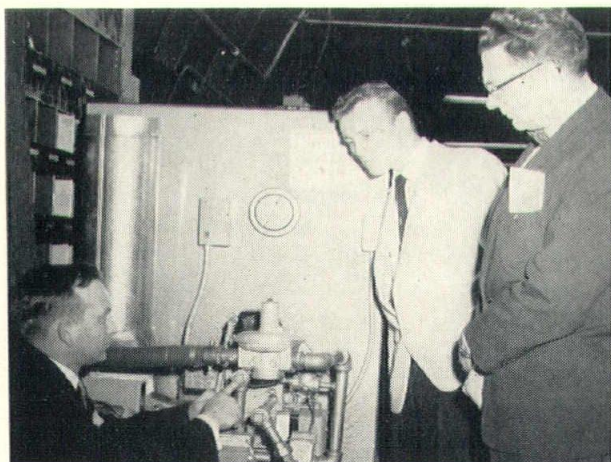
R. W. Dyer, Milwaukee architect, was among the prize winners of the 1957 International Lighting Contest announced recently. Most winners were in the electrical field itself, rather than design.

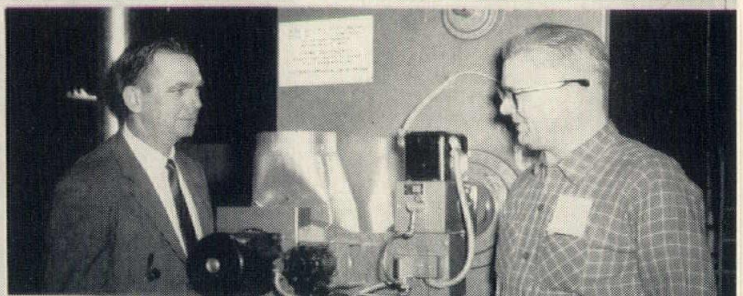
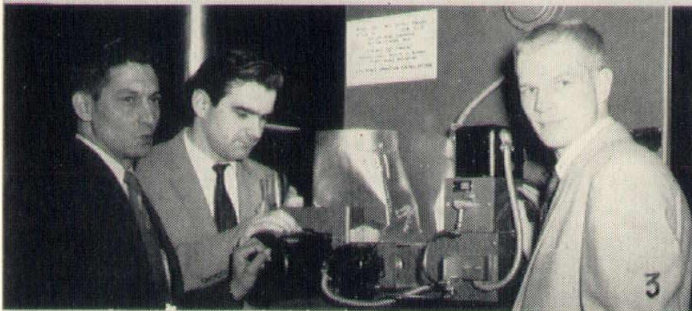
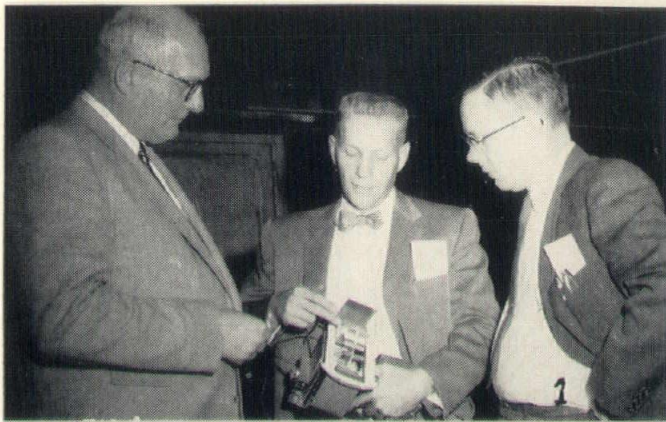
**TJERNLUND DISPLAYS LATEST
EQUIPMENT AT OPEN HOUSE**

Area architects, engineers and others found out about the latest developments in warm air heating during a recent open house at the plant of Tjernlund Manufacturing Company in St. Paul. Tjernlund's new three-stage gas and oil burners for modulating firing projects and makeup application were featured. The equipment was the climax of the firm's progress since its organization in 1930. Our pictures show some of those who attended the showing. In each instance identifications are left to right.

In the group of three pictures are (left) Bob Tjernlund with Gerald Scott and Bob Snyder, engineers. . . (center) Ken Miller, engineer. . . (right) L. W. Ericksen, Verne Nelson and Ken Miller, engineers, with Ed Olson, Tjernlund plant superintendent.

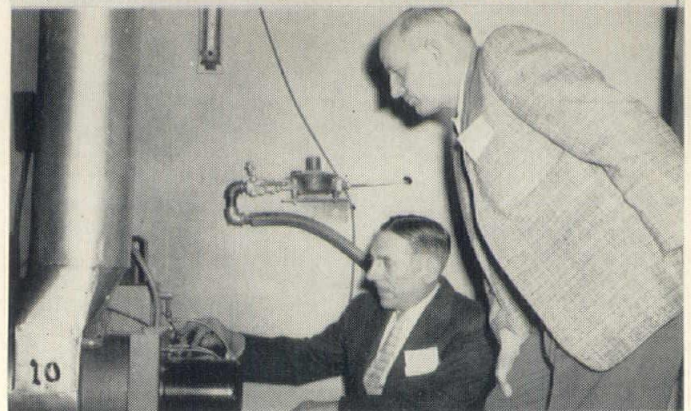
In our montage are shown—1—H. H. Rosenwald of Standard Oil, Ralph Nelson, Tjernlund Co., and Fred Housenga, Standard Oil. . . 2—L. T. James and Jean Abel of Abel Heating, C. W. Odmark and Bert Larson of The Markson Co. . . 3—Bob Schram and Jerry Sandin of Gausman & Moore, engineers, with Ray Maida of Haarstick, Lundgren & Associates, architects. . . 4—Harold Vrista and John Besckola of Yale





Engineers. . . . 5—Dale Weum and Gerhard Peterson of Cone and Peterson, architects and engineers. . . .

6—Carl Malm of Minneapolis Honeywell and Ed Jarnig of Jarnig Plumbing & Heating. . . . 7—Bob Snyder, L. W. Erickson and Vern Nelson, engineers, and Emil J. Tjernlund. . . . 7—Bob Snyder, engineer, Emil J. Tjernlund, company president, and L. W. Erickson and Vern Nelson, engineers. . . . 8—Dick Wagner, draftsman, and Florence Brandl, office manager, Tjernlund Mfg. . . . 9—Cliff Anderson, Wally Potter and Monty Talbert, engineers of Nielsen & Bruch Consulting Engineers. . . . 10—Howard Schampel of Gerard Steel Co. Supply and Ken Grice of The Snelling Co.



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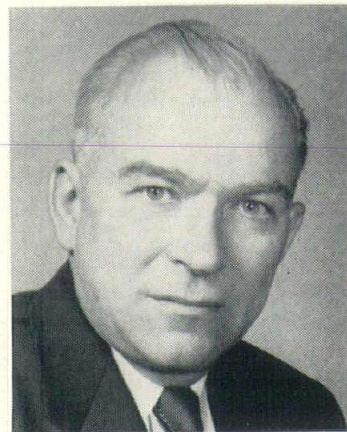
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KLIPPEN SEES ORGANIZATION NEED FOR FUTURE

Speaking before one of the largest gatherings of construction industry members ever assembled in the Arrowhead area, Pres. Herbert C. Klippen of the Duluth

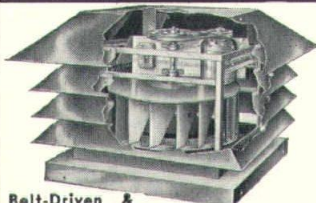


Mr. Klippen

Builders Exchange recently told the group's 56th annual banquet that the need for organization among industry groups is a key to future growth.

"Over the years we, a construction industry association, have set forth certain goals for which to strive," he said. "They include working for a more complete understanding among our members, bringing in reputable firms as new members, assisting individual industry groups in their organizations, improving our area labor relations and the general promotion of our great industry. Much progress has been made in the attainment of these goals. Today your builders exchange has an all-time high membership of highly qualified firms. The past officers, boards of directors, and members have done an outstanding job of meeting the challenge and problems of the day. Their combined efforts through the builders exchange and allied associations have been most effective. As your president I pledge to continue the guidance of the association on the same high plane as my predecessors.

"As we look to the near future we note two problems which must be solved. One is the inadequacy of our apprenticeship training program. It is estimated that the country's growing population will require an increased outlay of about \$60,000,000,000 a year for new highways, homes, hospitals, churches and other facil-



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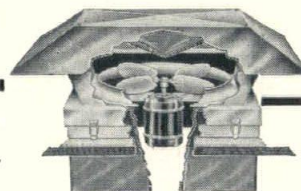
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ities. This points to a huge training program. In several of our construction trades the number of apprentices completing training has failed to keep pace with journeymen losses. This calls for combined labor-management co-operation. It must be recognized that the best interests of both groups are served to the greatest advantage by mutual combination of efforts to develop the skilled tradesmen to meet the challenge of the future and provide the quality construction, at a fair price, to which the buying public is entitled.

"The second problem is that of holding the lid on the inflationary spiral faced by all people in the construction industry. It is our duty to the public, as employers through our affiliated associations, to understand and familiarize our employes with this harmful condition. All should have as a goal to negotiate labor contracts which are fair and equitable. I urge every exchange member to work to this end. We must work diligently to stop the trend of declining productivity through stronger apprenticeship programs. We must keep our employes and ourselves informed about the problems facing our great industry.

"We must also face the fact that we of the builders exchange are an essential part of a great team which controls the economy of this great area and we must assume our share of the responsibility for its ever growing prosperity. Concerted and combined effort, coupled with objective sound thinking, can do much to keep our economy on an even keel."

CITY LIVING DISCUSSED BY VISITOR

"New Concepts for Living and Working in the City" were discussed at the University of Minnesota recently in a public lecture by Oskar Stonorov, Philadelphia city planner. The talk was sponsored by the university's school of architecture.

ARCHITECT PRESIDES AT FARGO CONCRETE CONFERENCE

Ken Johnson of Johnson & Lightowler, Fargo architects, presided at the second session of the recent concrete conference held in that city. Prof. John Oakey, head of the department of civil engineering at NDAC, conducted the first session. Some 150 persons in the architectural and other segments of the building industry attended.

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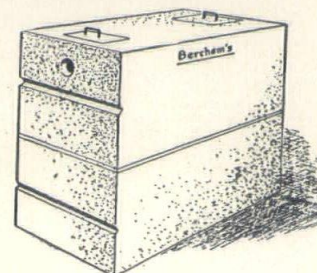
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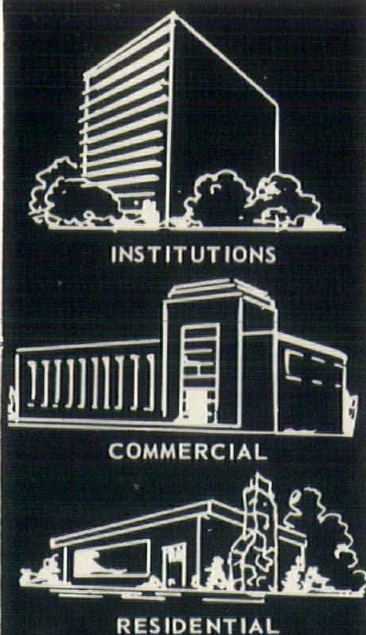
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NATIONAL LATHING AND PLASTERING CONVENTION SCHEDULED FOR MINNEAPOLIS

The National Lathing & Plastering Bureau convention will be held in Minneapolis, June 19 and 20, with the Nicollet Hotel as its site, according to word from Loyd G. Peterson of Hopkins, Minn., national president. The host bureau for the event is the Minnesota Lathing & Plastering Public Relations Bureau.

Although this is only the third convention of the national group, each of the previous conventions showed a marked increase in attendance and some 275 persons are expected at the Minneapolis meetings. The national bureau was formed in Denver in 1953 by the Contracting Lathers & Plasterers International Association, the Wood, Wire & Metal Lathers International



Shown at top is Loyd G. Peterson, president of The National Bureau for Lathing & Plastering. The second picture shows the 1958 National Convention Bureau Committee (standing, l-r): Al Kastner, Dan Gustafson and Joe Fitzgerald; (seated) Loyd G. Peterson, Russell W. Anderson, Minnesota Bureau chairman, and Lawrence Peffer. The lower picture shows (standing, l-r): Marshall Howe, Carl G. Anderson, Albert Kastner, Carl Green, Donald Gallagher, Dan Gustafson, Lawrence Peffer and Henry Skogsberg; (seated) S. Victor Swenson, Loyd G. Peterson, Russel W. Anderson, Ben F. Gardner, secretary-treasurer, and Joseph Fitzgerald.

NORTHWEST ARCHITECT

Association and the Operative Plasterers & Cement Masons International Association to advance the advertising programs of the industry.

The Minnesota bureau was the first member bureau to join the national program, which now has field representatives in all parts of the U. S. and Canada. Advertising media specifications, literature, machine and materials research and testing data and similar materials are supplied the members.

ELKEN AND CLARK FORM NEW FIRM

A new Fargo-Moorhead architectural firm has been created, with offices in both cities, by Richard G. Elken of Moorhead and Perry S. Clark of Fargo. The firm is known as Elken & Clark. Both men are registered in Minnesota and North Dakota and hold certificates from the National Council of Architectural Registration Boards.

Mr. Elken, a native of Mayville, N. D., is a graduate of the University of Minnesota school of architecture and Harvard. He served during World War II as a meteorology officer in the Air Force and before going into his own practice worked for architects in Minneapolis, Moorhead and Fargo.

Mr. Clark was originally from Harvey, N. D., also is a Minnesota graduate and attended NDAC. He too was with the Air Force during World War II and early experience was gained in offices in St. Paul, Grand Forks and Fargo.

The firm will specialize in educational and commercial designs.

ARCHITECT MAIN SPEAKER AT ALEXANDRIA HONOR BANQUET

James Hawks of Thorshov & Cerny, Minneapolis architectural firm, was the principal speaker at a recent banquet honoring key companies in Alexandria, Minn. Mr. Hawks is consultant to the Alexandria planning commission. Co-sponsor of the banquet was Alexandria Developers, Inc.

ENGEL TALKS ON JAPAN

Heinrich Engel, visiting instructor at the University of Minnesota's school of architecture, talked on "Living and Building in Japan" before a group at the Walker Art Center in Minneapolis. His discussion was pointed up by the serving of Japanese refreshments.



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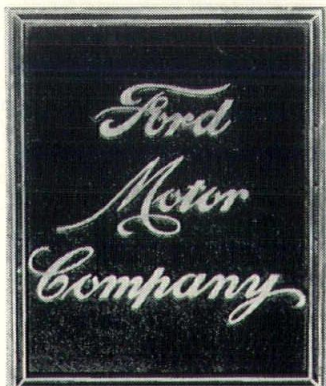
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OUTSTANDING EXHIBITS AT MINNEAPOLIS BUILDERS SHOW

The recent Minneapolis Builders Show drew much attention from those planning to build their own homes and from many more who are active wishful thinkers. Among the outstanding exhibits which presented them with the latest in products and methods were those shown on the opposite page.

For those whose ideas ran to latest garage door handling (top-left) the exhibit of Pella Products and Overhead Door Companies of Minneapolis and St. Paul were good. Minnesota Fence and Iron Works of St. Paul (top-right) presented lines they manufacture and supply.

Air conditioning and heating equipment was lined up deep for study in the exhibit (second-left) of Lennox Industries, Inc., which are distributed locally by Cronstrom's Heating and Sheet Metal of Minneapolis. American Terrazzo of St. Paul and Grazzini Bros. & Co., and Venice Art Marble Co., Minneapolis, had a color-fully rich display (right).

W. A. Gerrard Company, Minneapolis, displayed some of the finest modern patterns in hardwood flooring (third-left) and MacArthur Company, St. Paul, showed its most recent addition to stocks, the Z-brick for interior walls (right).

Ceramic wall and floor tiling was the subject of the display (lower-left) of the Dale Tile Company of Minneapolis. The richness of various kinds of cut stone was featured in the exhibit (right) of Rich-McFarlane Cut Stone Co., Minneapolis.

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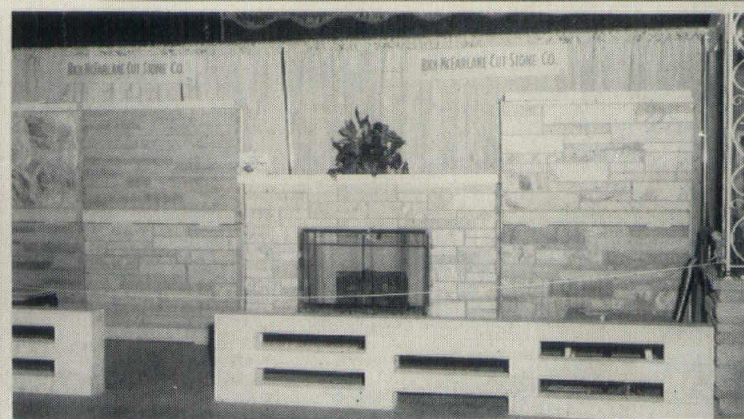
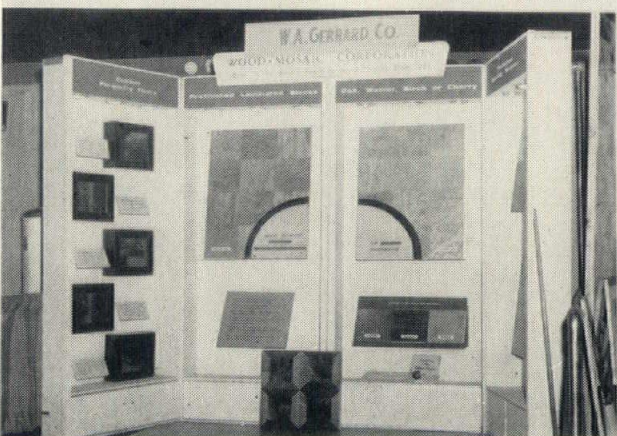
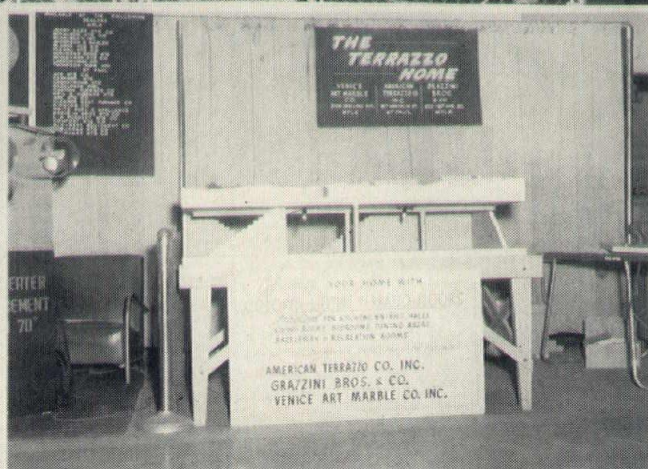
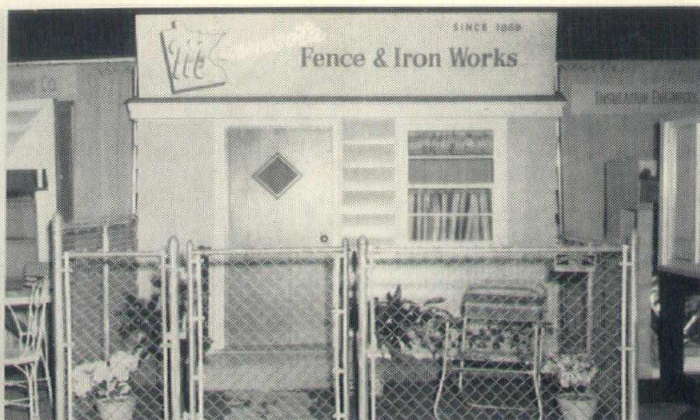
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WATERLOO FIRM ADDS

Ralston & Ralston, architects of Waterloo, Iowa, have announced that Keith E. Lorenzen has joined the firm as an active partner and the name has been

changed to Ralston & Lorenzen. Mr. Lorenzen, a native of Waterloo, worked for several other Iowa architectural firms. At present he is chairman of the committee on education and registration for the Iowa chapter of AIA.

PRODUCTS and SERVICES

**Cross Section
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GLAZED CONCRETE BLOCKS INTRODUCED LOCALLY BY ZENITH

A new type of glazed masonry unit is now being manufactured for the local building industry by Zenith Concrete Products Company of Duluth, Minn. Marketed under the tradename Spectra-Glaze, it is the first successfully glazed concrete block ever to be produced. It was developed by The Burns & Russell Company of Baltimore, Md., which licenses block manufacturing companies to use the process.

"The glazed facing, which is applied to regular Waylite block, presents a smooth plane surface with straight and true edges and exact dimensions, regardless of slight irregularities of the base block," Zenith reported. "The unit is available in several colors and is produced in the various shapes necessary for architectural design. The glazing is resistant to acids, alkalis, stains, solvents, temperature change and thermal shock, cleaning solutions, etc., and withstands abuse from impact especially well.

"Intended primarily for use as interior glazed wall finish, this unit brings many inherent advantages to



Blocks are getting their glazed faces in this picture.

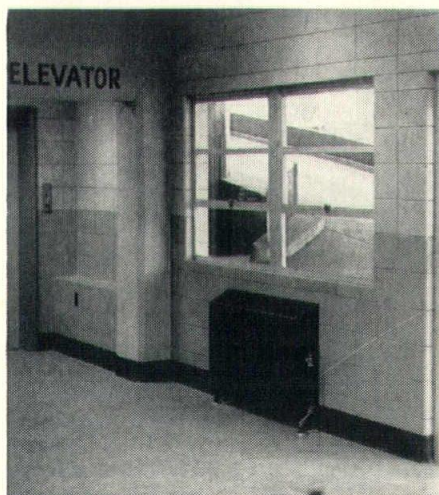
the building industry. The process makes possible a local supply of high grade glazed masonry material. Another innovation with Spectra-Glaze is the ability to furnish load-bearing units in the large 8" x 16" face size. Most structural glazed masonry products are available in 2" and 4" thicknesses only, which necessitates the erection of a strong back-up wall to support the load. "In-the-wall costs are reported to be from 15 to 30 per cent under usual structural glazed masonry material, depending on the thickness of the wall. The glazing itself is a combination of glass silica sands and a pigmented thermo-setting binder. The toughness and ductility of the resinous binder prevent the crazing and hair-line cracking characteristic of glazes and provides outstanding ability to withstand impact."

The glazing operation is separate from the manufacture of the blocks. Blocks are made and autoclave-cured to pass code requirements and are taken to the glazing plant only when ready for use in construction. The sand and resin are combined in a mixing tank and extruded into shallow metal molds. The liquid resin runs up into the pores in the block

and the facing therefore becomes an integral part of the unit and cannot be removed without destroying the block itself.

The unit is then sent through a kiln and subjected to temperatures up to 420° F for approximately one-half hour. At the end of this time, the mold is tapped off, a cardboard carton is placed over the glazed facing and the unit is palletized for storage and shipment.

The unit is modular in all dimensions, the face size being 15¾" x 7¾". The glazing material adds ⅛" to the bed depth of the unit which again is in line with the modular system. A wide range of colors is available. The colors are produced by using pigmented resins or colored granules or both. The granules are actually ceramic coated stone chips of very small size and, like the pigments, are colorfast for interior use.



Use of the glazed blocks is shown in this picture.

NEAL PRESENTS ROLLING SLATE CHALKBOARDS

A new design for rolling slate chalkboards has been announced by W. E. Neal Slate Company, Minneapolis. The aluminum-framed unit is surface-mounted to any type of wall with concealed fastenings. The extrusions were designed for

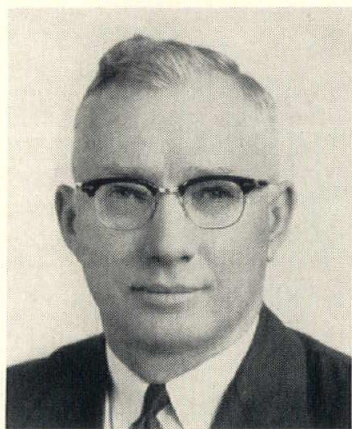
NORTHWEST ARCHITECT

large, heavy panels and slate panels weighing one hundred pounds have been found to slide with little effort on the special raised nylon wheels. The raised aluminum wheel-track prevents rolling in accumulations of chalk or debris and it is removable for easy cleaning. Die-cast miter brackets are used to keep tight, strong miters.

Rolling slate chalkboards are used in schools, primarily in science rooms and lecture halls, and also in commercial science and research centers. They provide double the writing space for a given wall area. The front panels can be locked closed with a key so the rear panels are concealed. In some installations, bulletin board or movie screens have been used for the fixed rear portion.

WOODMASTER FOLDING DOORS ANNOUNCED BY INSULATION SALES

The new Woodmaster wood folding door line has been added to the Modernfold lines handled by In-



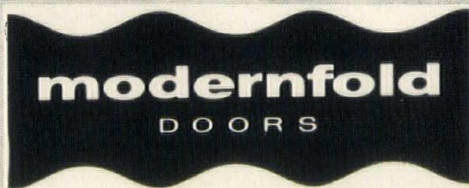
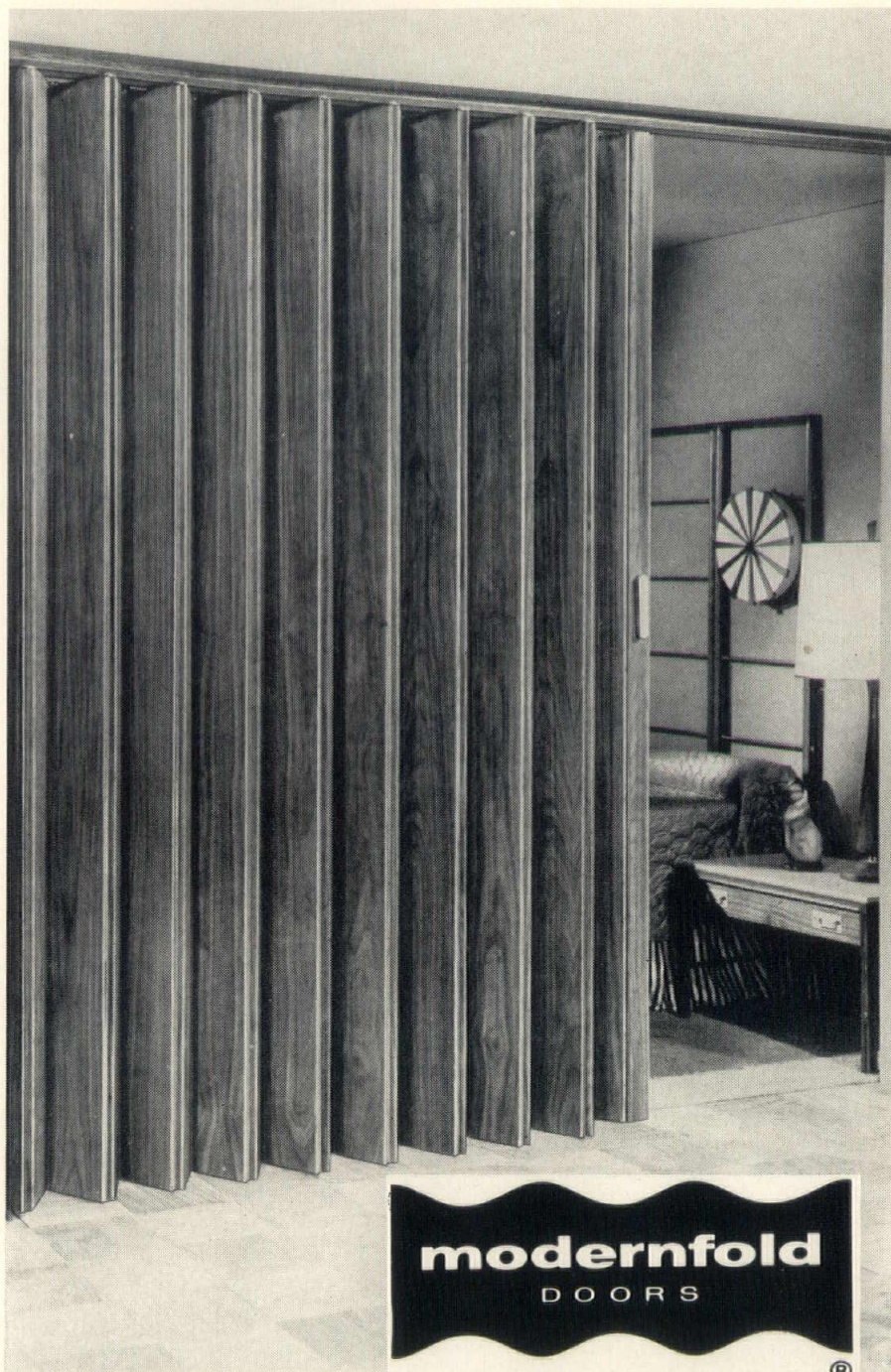
Mr. Bartholome

sulation Sales Co., Minneapolis, according to Doug Dunsheath, president, and Earl Bartholome of the company's Modernfold department.

"The Woodmaster addition is to the Modernfold lines we have handled since 1940," Mr. Bartholome said. "The outstanding design and construction of the Woodmaster assures quiet, troublefree operation. The wood finishes are veneered to hard-chip cores to resist moisture and maintain straight, uniform panels."

"This new line is comparable to the Modernfold custom door line in price and can be adapted to curved installation as well as pocketed types. Twenty-two years of folding door experience and quality manu-

MARCH-APRIL, 1958



NOW . . .

**Modernfold offers a new
wood folding door!**

WOODMASTER

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INSULATION SALES COMPANY

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Minneapolis, Minn.

lacturing are behind this new product."

Additional information can be obtained from Insulation Sales' Modernfold department.

DUR-O-WAL APPROVED FOR USE IN NEW YORK CITY

The City of New York's board of standards and appeals has approved use of Dur-O-wal as ties for cavity walls and in lieu of headers in solid or composite masonry, according to the Cedar Rapids Block Co. Approval was made on the basis of inspection, test and data filed with the committee on test.

BRICKETT NAMED PRESIDENT OF CONSTRUCTION CHEMICALS

Edward M. Brickett has been named president of Construction Chemicals, Inc., St. Paul, with Gordon H. Chapman as vice-president. Construction Chemicals is taking over the sales and service functions of the construction products of Dewey and Almy Chemical Co., with which Mr. Brickett was connected before coming here. North Central Supply Company formerly handled these lines.



Mr. Brickett

ROMANY



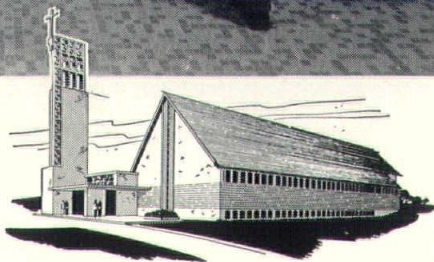
SPARTAN

First Methodist Church, Hopkins, Minn.
Architects: Armstrong & Schlichting, Minneapolis, Minn.
Tile Contractor: Drake Marble Co., Minneapolis, Minn.



ROMANY-SPARTAN tile lends serene beauty to Minnesota church

Simplicity of line and imaginative blending of textures and color keynote the warm, friendly interior of the new First Methodist Church in Hopkins, Minnesota. To help achieve this dignified, yet colorful effect, the architects chose Romany-Spartan ceramic mosaics in subdued colors—plain for chancel floor and random pattern for sanctuary.



No matter what your problem, indoors or out, there's a Romany-Spartan tile to create exactly the right mood or effect. Special mountings for small units—"Sparamic" for adhesive setting and "Quickset" for conventional or thin mortar bed setting—speed installation, reduce finished cost. For more information or design help, call:



Rollin B. Child

Northwest Sales Representative

13006 Excelsior Blvd. • Phone WE. 8-8379 • Hopkins, Minnesota
UNITED STATES CERAMIC TILE COMPANY • THE SPARTA CERAMIC COMPANY
CERAMIC TILE PANELS, INC.

Immediately before coming to the Upper Midwest, Mr. Brickett was with Dewey and Almy and Hume Pipe of New England, Inc., in Swampscott, Mass. A graduate of the Massachusetts Institute of Technology and the University of Illinois, he has had extensive experience in all phases of the cement and concrete industries.

"Mr. Brickett is particularly well qualified to guide Construction Chemicals in furnishing quality materials and expert services to ready-mix plants, concrete products plants and contractors," the announcement said. "The company specializes in concrete air entraining agents, water reducing agents and concrete bonding agents and other concrete specialties."

PERLITE INSTITUTE ELECTS, PREDICTS BRIGHT FUTURE

Highly favorable long-term growth prospects in construction assure a bright future for the perlite industry, it was reported by Richard J. O'Heir, secretary-treasurer of the Perlite Institute at the international trade association's ninth annual meeting in Fort Lauderdale, Florida.

Elected president of the Institute was D. Loring Marlett, vice-president of the Mining and Mineral Products Division of Great Lakes Carbon Corp. Vice-president is Norman E. Braun, operations manager of the Cleveland Gypsum Co., Cleveland, Ohio.

The outgoing president, J. C. Kingsbury, vice-president of F. E. Schundler & Co., Inc., and Theron L. Lehr, general manager of Texas Lightweight Products Co., were elected to two-year directorships.

NORTHWEST ARCHITECT

Continuing as directors are Frank Schaffer, president of Perlite Products Co., O. Lewis Staerker, sales manager of the Southern Division of Tennessee Products & Chemical Corp., and Lewis Williams, president of Perlite Industries of Arizona, Inc. Lewis Lloyd, president of Alatex Construction Service, Inc., continues as advisor to the board of directors.

PETERSON ELECTED PRESIDENT OF NATIONAL PLASTER GROUP

Lloyd G. Peterson has been elected president of the National Bureau for Lathing and Plastering, whose headquarters are in Cleveland, succeeding Edmund F. Venzie of Philadelphia. The group's annual convention will be held in Minneapolis, June 19 and 20 of this year. Mr. Peterson, of Peterson & Hede Company, is immediate past president of the Contracting Plasterers and Lathers International Association.

Get in and pitch in your chapters' activities — you'll benefit in many ways!

SHADOWAL BLOCKS AROUSE KEEN INTEREST AT SHOW



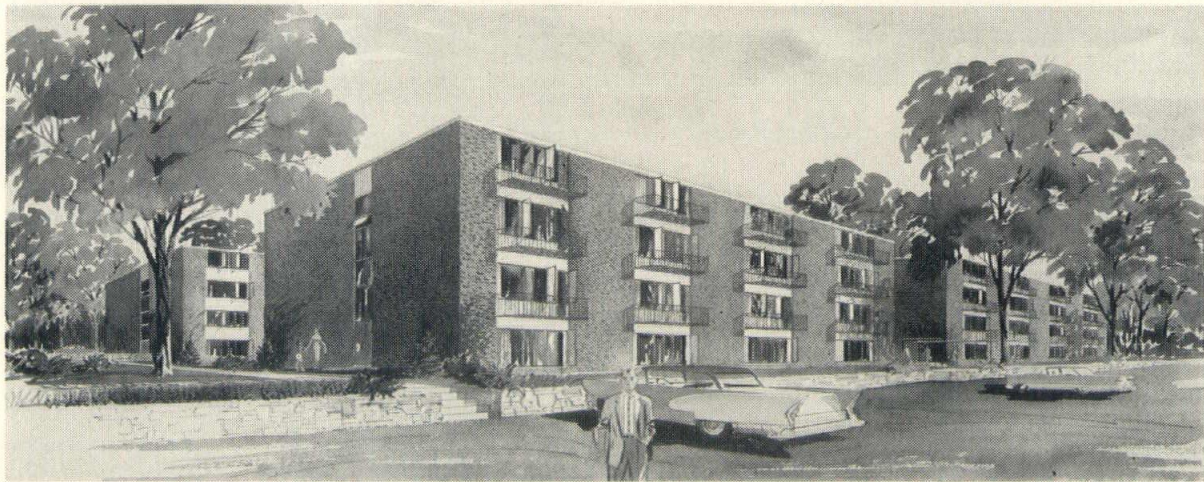
The third dimensional effect of "Shadowal" concrete blocks drew keen interest of spectators at the recent Minneapolis Builders Show, where it was demonstrated in the booth of The Chas. M. Freidheim Co., Minneapolis. Our illustration shows the exhibit.

"Hundreds of inquiries from architects, contractors and other interested persons were answered," the company resume of the show said. "These 'Hi-lite' blocks give a sculptured appearance, designed to give added beauty and interest to walls. The angled recess in the face of

this block makes possible a wide variety of interesting patterns. The dramatic effects were much commented on by those who visited the booth."

NEW FILM ON ROOF DECK DESIGN

A new color sound movie on the design and construction of perlite concrete roof decks has just been produced by the Perlite Institute. The 20-minute, 16mm. film, "Roof Decks Unlimited—With Perlite," is



Robinwood Apartments, Robbinsdale, Minnesota

WALLACE KENNETH, *architect*

Flexicore floors, roofs and precast spandrel beams used in four buildings comprising the Robinwood Apartments provided 88 single bedroom apartment units.

Flexicore sound proof walls and floors provide desirable features not found in ordinary structural framing construction. Flexicore is the only precast system that has received a fire rating by Underwriters' Laboratories.

MOLIN CONCRETE PRODUCTS COMPANY

885 West Minnehaha Avenue
St. Paul 4, Minnesota

Flexicore, precast beams & columns, lightweight channel roof slabs, special precasting.

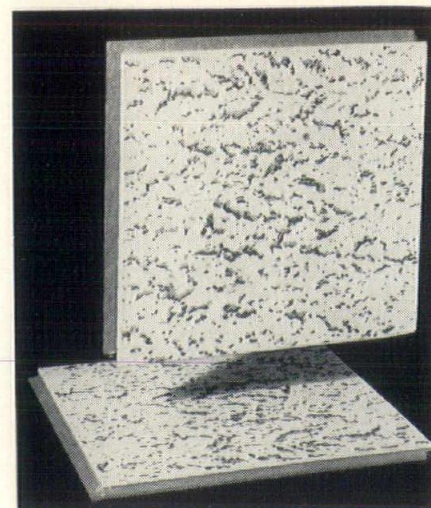
available without charge for showings before architects, contractors, engineers, builders and other interested groups in the building industry from the Perlite Institute, 45 West 45th Street, New York 36, N. Y.

NU-WOOD INTRODUCES NEW CEILING TILE

Wood Conversion Company has introduced a new ceiling tile with

a fissured design to meet today's trend towards colorful and eye-catching ceilings. This new insulation board tile, called Nu-Wood Decorator Tile, features a simulated fissured marble design in 12" x 12" size.

"Available in either gray or beige, Decorator Tile insulates and corrects faulty acoustics in addition to its decorative advantages," its makers reported. "Nu-Wood Decorator Tile is also specially treated with a Sta-



lite white coating that meets Commercial Standard CS42-49 for Class F flame-resistant finishes."

U. S. CERAMIC EXHIBIT GETS WISCONSIN AWARD



Shown here are Rollin B. Child, left, and John J. Flad looking over the award of merit given Mr. Child for the exhibit of the U. S. Ceramic Tile Company and Sparta Ceramic Company at the recent convention of the Wisconsin state chapter of AIA.

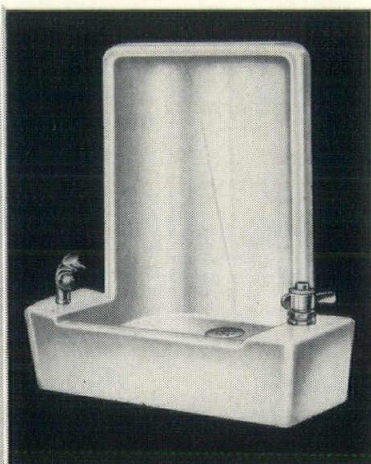
Mr. Child, Minneapolis, is well known in architectural circles of this area. His award read, "For a well designed, informative exhibit displayed at the annual convention of the Wisconsin Chapter of the American Institute of Architects in Madison, Wis. . . ."

Mr. Flad of John Flad and Associates, architects and engineers in Madison, is father of Joseph H. Flad, newly elected Wisconsin chapter president.

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NORTHWEST ARCHITECT

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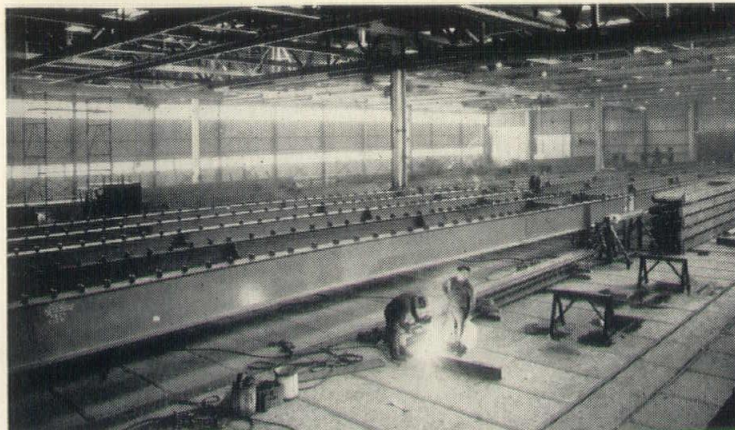
ST. PAUL STRUCTURAL COMPLETES BRIDGE SHOP

St. Paul Structural Steel Company has completed a new bridge fabricating shop which climaxed 10 years of intensive expansion by the St. Paul steel fabricating firm. The new building embraces an area of 31,500 square feet, doubles the company's working area and boosts its production capacity by 50 per cent, according to Thomas H. Comfort, president.

"Our new bridge fabricating shop was constructed primarily to afford us more working area, to increase our efficiency and to boost our fabricating output," Mr. Comfort commented. "Because of its size, the new shop is well adapted to the fabrication of most highway bridges and provides us with a well-arranged shop also suitable for the fabrication of steel for buildings."

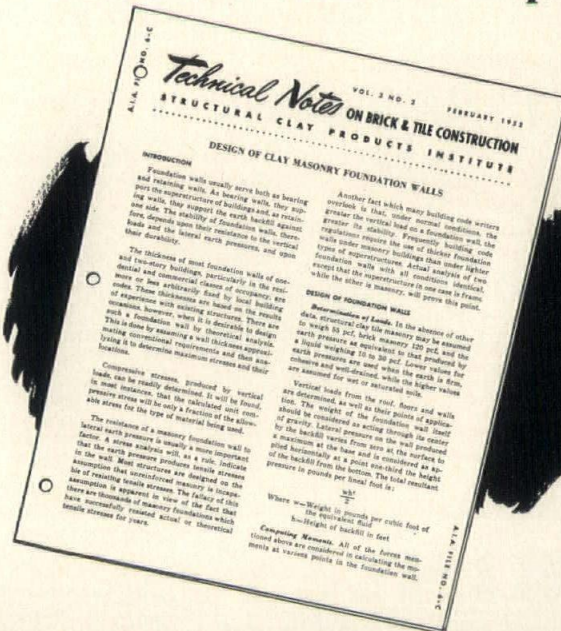
Founded in 1915 by the late Harry C. Palmer and Thomas M. Comfort, St. Paul Structural Steel was purchased in 1946 by Thomas H. and Clifford E. Comfort, sons of the co-founder, upon the elder Comfort's retirement. The present owners' long-range expansion program began about a year later and extension of their new overhead crane runway to Agate Street is earmarked for 1958.

Huge
bridge
beams
being
fabricated
in the
new shop.



JUST TO BE TECHNICAL . . .

Is Your File of the TECHNICAL NOTES ON BRICK & TILE CONSTRUCTION Up-To Date?



Each month SCPI sends you a TECHNICAL NOTES ON BRICK & TILE CONSTRUCTION giving information on various phases of clay masonry construction. Architects and Engineers alike, have found these to be a valuable aid in their work.

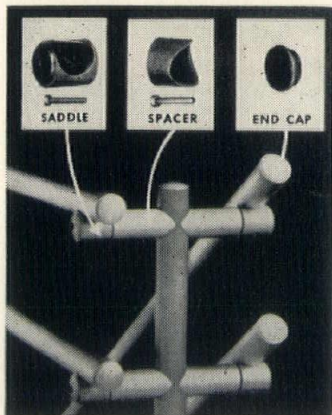
We have a new table of contents and an index for TECH NOTES for all of the issues to date. If, in checking the table of contents, you find you are missing any of the issues, please let us know and we will be happy to send them to you. Send for your new table of contents and index now.

Also, if you are not receiving the TECH NOTES at the present time, notify us and you will be sent the complete file and your name will be placed on our monthly mailing list.

Structural Clay Products Institute

Region 6

Ames, Iowa



NEW HANDRAIL SYSTEM OFFERS FLEXIBILITY AND ECONOMY

Availability of an "entirely new handrail system that makes possible sharp reductions in railing installation costs" has been announced by the Universal Railing Company, Denver, Colo.

"The new system, which is patented, eliminates need for detail design, templates, prefabrication or

welding and permits a finished job, started and completed, right on the site, without waste or scrap," the company said. "It is the only system that automatically adjusts to dimensional variations in floors and stairways."

Involved are only four basic parts: saddle, spacer, end cap and two 5/16" x 1 1/2" screws. Parts are made for use with standard 1 1/4" steel pipe and future plans call for parts for 1 1/2" OD aluminum tubing. The only tools required to install the Universal Handrail System are a hacksaw, drill with 5/16" bit and tap and a screwdriver. The complete job can be handled easily by one man.

Complete information and prices can be obtained by writing Universal Railing Company, 275 Kalamath, Denver 23, Colorado.

THERMOPANE IMPROVE- MENTS ANNOUNCED



A number of product improvements which are engineered to enhance the handling and glazing characteristics of Thermopane insulating glass have been announced by Libbey-Owens-Ford Glass Company.

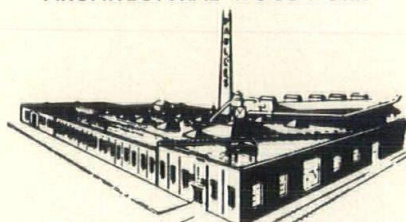
Most important of the improvements announced by E. M. Everhard, vice president in charge of sales, is the development of an aluminum channel impact-absorbing cushioned frame to protect the edges of the double-paned unit in handling, shipping, warehousing and installation.



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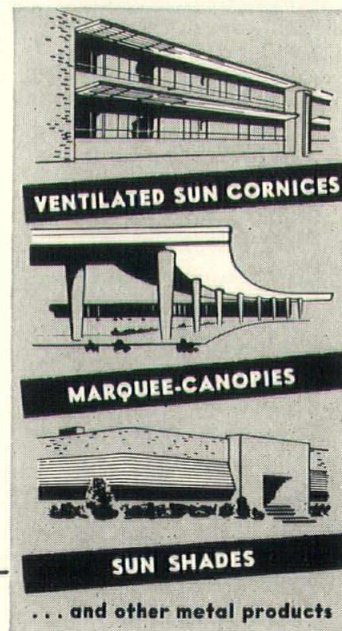
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ative—see Sweet's Ar-
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SUN SHADES

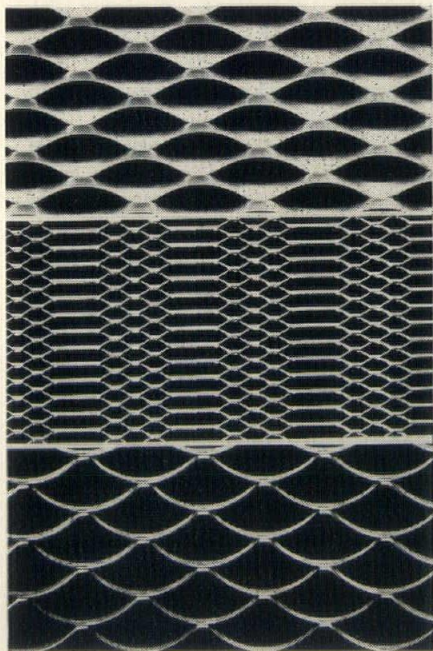
... and other metal products

"The well-proved Libbey-Owens-Ford method of sealing the dehydrated air between the lights of glass with a metal-to-glass bond and corrosion-proof flexible metal separator strip is not changed by the new metal frame," said Mr. Everhard. "However, in addition to the light metal frame a further protection is added by the use of a special mastic material applied between the metal frame and the glass edges which has a cushioning effect for the glass unit within the frame. Thus the new unit really floats the glass in a snug-fitting cushioned metal frame."

Approximately 100 standard sizes of the new cushion-framed Thermopane for picture windows and large building glazings are being made. Many large buildings already have been glazed with some of the initial shipments.

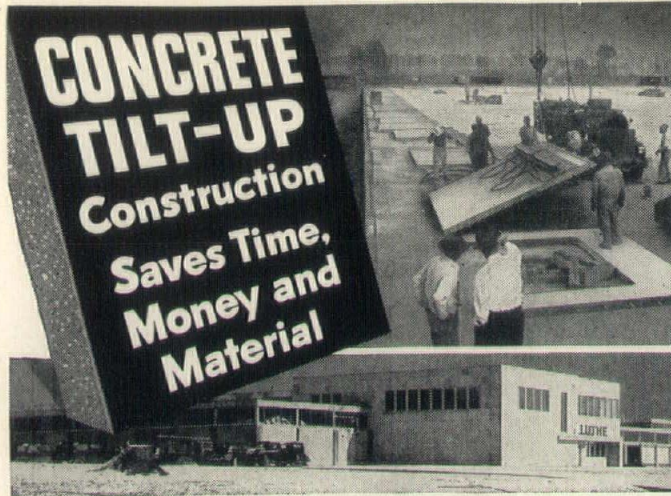
THREE NEW EXPANDED PATTERNS BY UNITED STATES GYPSUM

Three new patterns of decorative expanded metals—Armorweave and Festoon in large, 1½" wide mesh



openings and Cathedral, a new type of pattern—have just been introduced by the United States Gypsum Company, Chicago, Ill.

"Cold-drawn from solid sheets of aluminum or carbon steel, these new expanded metals are strong and rigid, yet lightweight," the company said. "They can be curved, formed, welded and cut without raveling. A



Tilt-up, a fast, economical method of concrete construction, is adaptable to buildings of one story or more. It reduces form building to a minimum. Wall panels are cast flat on the concrete floor with simple edge forms, then tilted up into position with hoists or power cranes. Cast-in-place piers and beams tie the panels into one unit.

For more information, write for free technical bulletins. Distributed only in the U.S. and Canada.

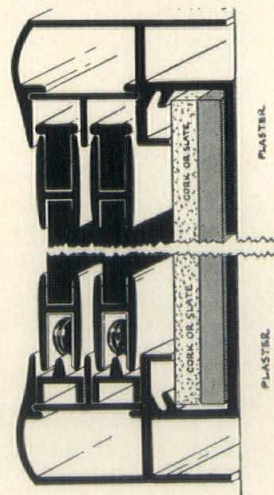
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NEW! from NEAL SLATE

. . . a surface mounted rolling chalkboard specially designed for heavy slate panels weighing a hundred pounds or more. . . . The slate holds firm when written on, yet slides effortlessly on nylon wheels riding on debris-free raised track. . . . Note the clean modern lines, concealed fastenings, sturdy miter brackets for permanence. . . . Provides double writing area for a given wall area. . . . Also available with fixed movie screen or tackboard in rear. . . . Write or call for details.

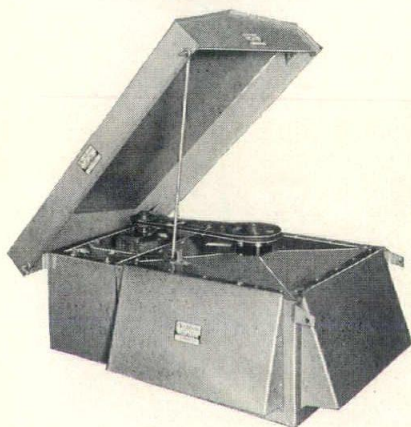
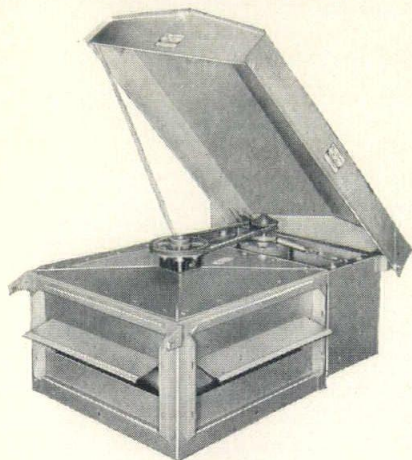


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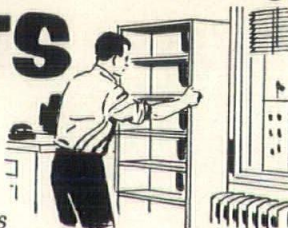
wide variety of finishes may be ap-
 plied by anodizing, porcelain enam-
 eling and painting, to add color and
 further corrosion resistance.

"In their standard pattern, the
 three-dimensional feature of these
 new expanded metals adds texture.
 Cathedral and 1½" Festoon are also
 available flattened and this smooth,
 level surface makes them adaptable
 to hundreds of additional uses. Each
 pattern is versatile enough to serve
 as the main design element of orna-
 mental decoration. Architects and
 decorators will find these meshes
 ideal for screens, room dividers, book
 shelves, sun shades, ornamental
 trims, ceilings and partitions.

"The 1½" meshes of Armorweave
 and Festoon were designed primarily
 for architectural use and are in line
 with proportions used in architec-
 ture. With these larger openings, the
 meshes retain their distinctive ap-
 pearance whether viewed close-up or
 from a distance. All three designs
 come in standard sheet sizes or may
 be sheared to specifications."

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*because
 it is made
 to YOUR
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Buildings aren't made to fit shelving
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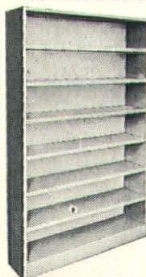
with patented
 TWIN POST corners
 for extra strength



AND

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 SHELVING**

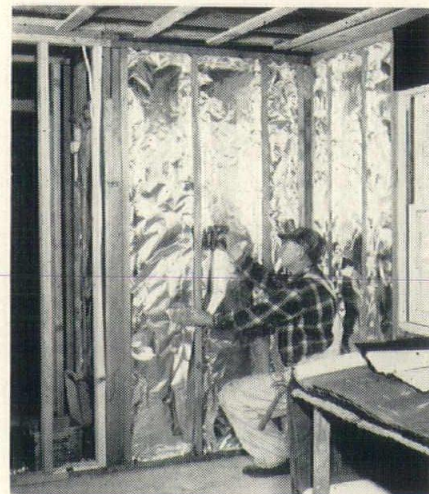
with smoothly finished end
 panels, double turned
 shelf flanges, and other
 features of quality. Choice
 of baked enamel colors,
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**ZONOLITE FEATURES NEW
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Our picture shows a workman
 stapling Zonolite's new glass fiber
 blanket insulation to the walls of a
 \$125,000 residence. In combination
 with the other materials used, this
 wall has a "U" value of 0.07, ac-
 cording to the maker.

The new blanket is made in stand-
 ard framing width and in three
 thicknesses—standard, medium and
 full thick. Rolls are continuous so
 the material can be cut off as need-
 ed to assure uninterrupted insulation
 from floor to ceiling for any ceiling
 height. With its aluminum foil va-
 por barrier, the complete blanket
 weighs less than two ounces per
 square foot in place.

Although compressed about three
 to one for maximal compactness, the
 fibers are so resilient that the blanket
 springs out to original thickness

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when unrolled. The foil is applied to one side only, since the tensile strength and light weight of the fibers make further support unnecessary. One-side facing also allows the fibers to "breathe" to the outside.

Generous tabs are provided for stapling or nailing. Contractors report that the blanket can be installed very quickly because it is so light and does not irritate the skin. The material cuts like butter and the cut lengths can be wedged into place immediately and stapled later. The blanket hugs the studs for its entire depth and holds itself up without sagging.

The blanket is being marketed as a companion product to Zonolite's long-established vermiculite loose-fill insulation.

ARCHITECTURAL USES OF WALNUT IN NEW BROCHURE

"An Architectural Study of Walnut for Commercial, Institutional and Residential Interiors" is the title of a new brochure now being offered by the American Walnut Manufacturers Association.

Illustrated in full color, the 16-page brochure offers a wide range of ideas for fresh new treatments in walnut ranging from residential to commercial use and public buildings to offices. Also offered with this new brochure is a walnut "Source List" which is intended as an aid in locating local sources of walnut plywood paneling and solid walnut paneling and trim.

Brochures can be obtained without charge from the association at 666 North Lake Shore Drive, Chicago 11.



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KIMBLE SELECTIVE SKYLIGHT ANNOUNCED



A new system of skylighting which "selects" only the most desirable rays of sunlight the year 'round has been developed for residential and light commercial use by Kimble Glass Company, subsidiary of Owens-Illinois Glass Company.

Known as 2x2 Toplite (four prismatic glass units set in an aluminum frame measuring approximate-

ly two feet by two feet), the new skylight system is a prefabricated, individually packaged unit delivered to the jobsite ready for immediate installation into prepared roof openings.

"Toplite is the only functional skylighting unit on the market and the only one that works with the sun," the announcement said. "Its

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Plaster-Weld is fully as effective on new buildings as on remodeling jobs... is approved by F.H.A. as well as New York Board of Standards and Appeals. For complete information phone or stop in.

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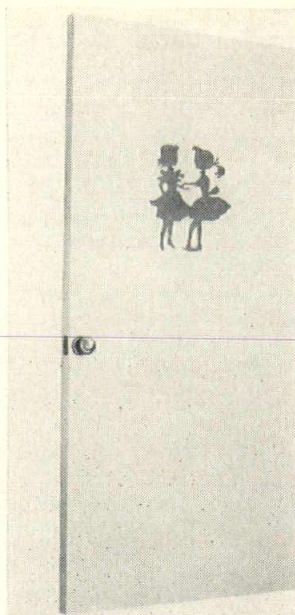
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aluminum perimeter holds scientifically designed prismatic glass units sealed with a Thiokol-base material for maximum weather protection. Easy and quick roof installation is provided by flange-perimeter construction. Toplite hugs the roof and is only about three inches high, making it practically unseen from street level. It reduces solar heat transmission during summer months and possesses an insulation factor more than twice that of an ordinary single-glazed skylight."

Constructed for installation on any roof, the new 2x2 Toplite's average contractor price per unit is about \$36, depending upon shipping zone and quantity ordered. It is available coast-to-coast from Owens-Illinois Daylighting Products Distributors.

CHEMCLAD DOORS PROVIDE UNIQUE FEATURES

Chemclad, registered trademark of The Bourne Manufacturing Company, Detroit, manufacturer of plastic laminate faced doors and parti-



A
Bourne
Door

tions, covers products with some unique features.

Silhouettes to designate certain special rooms in schools, hospitals or clubs can be inlaid in the laminate in contrasting color at the time of its manufacture. These silhouettes are permanent and flush with the face, having no seams, but numerals

and letters should be avoided, the maker said. Shown in the photograph here is a door with a silhouette designed by the architect of the building.

Chemclad Doors are available in a variety of colors and patterns for the architect's selection. The opposite sides of a door may be of different colors or patterns to fit the decor of the building. Light openings of any size can be provided for glazing by others and louver openings are provided for installation of any type louver.

All Chemclad Doors have frames which accommodate closers and conventional butts and locks and wood blocking is provided for all other hardware specified.

The doors employ the stressed skin method of construction and the rugged plastic laminate faces are bonded to the core and frames under heat and pressure with water-proof adhesive. Further details can be obtained from Bourne Manufacturing Co., 1573 East Larned St., Detroit 7.

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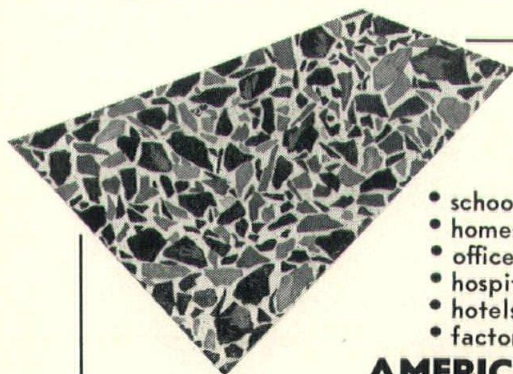
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GOODWIN RESEARCH OFFICE OPENED IN MINNEAPOLIS

The Goodwin Companies, manufacturers of structural clay products, have established a new office for research, engineering and promotion at 513 Foshay Tower, Minneapolis, according to a statement made by A. C. Frisk, president. Gene Haverkamp has been appointed assistant director of engineering, research and promotion and will have charge of this office.

Mr. Frisk said this office was definitely needed because of the increasing new trend in architecture for exposed clay masonry, dynamic use of color in clay and other new products.

"It will provide for the architects of the Upper Midwest increased service and an opportunity to see and use the new materials in clay," he said. "The office will have on display products manufactured by the Mason City Brick and Tile Company, the Des Moines Clay Company, Redfield Brick and Tile Company, Oskaloosa Clay Products, Ottumwa Brick and Tile Company and the Johnston Clay Works, Inc.,

all part of the Goodwin organization. Unique panels will be available so architects can custom blend their own face brick mixtures."

Mr. Frisk further emphasized that the office is available for the use of architects and invited them to use it as much as possible.

A 1939 graduate of Iowa State College in Ceramic Engineering, Mr. Haverkamp spent two years in production at the Mason City Brick and Tile Company. After his army service, which was spent in construction with an engineer aviation battalion,

he was territory sales engineer, Twin City office manager and, for the past four and one half years, assistant sales manager of the Mason City Brick and Tile Company.

"The engineering, research, and promotion department of the Goodwin Companies, under the direction of C. T. Bridgman of Des Moines, has done much since its inception to further the use of clay products in this area," it was pointed out. "New products have been developed, new textures devised and old products have been put to new uses.

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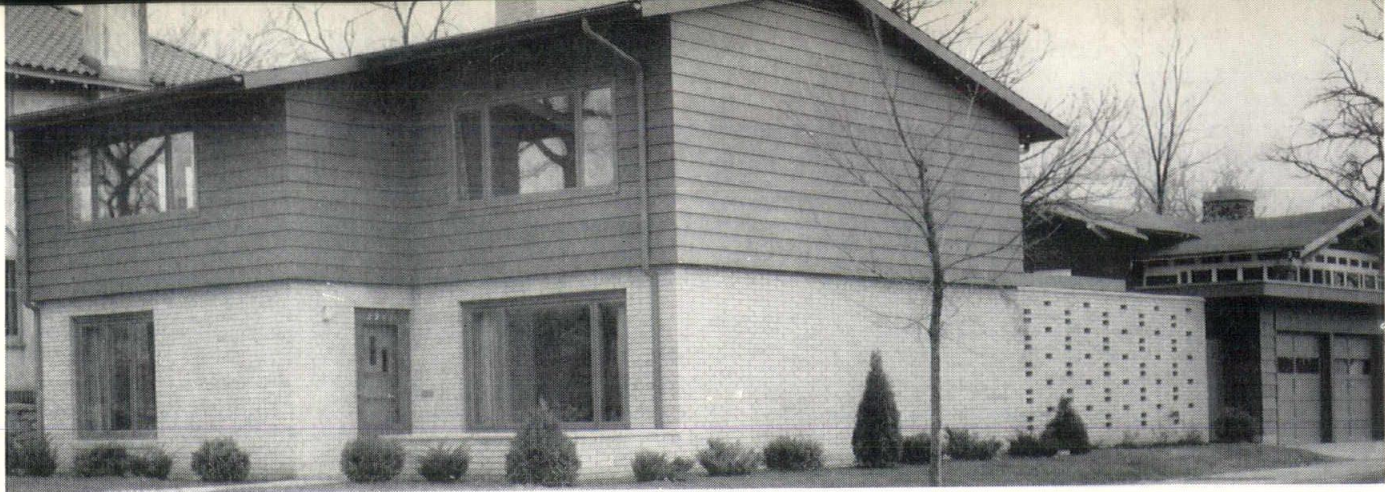
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The small suburban church, illustrated below, effectively used $\frac{3}{4}$ x 10 Redwood siding below the windows with Clear Heart Vertical Grain Redwood V-joint above to economically provide an edifice that would blend into the community.

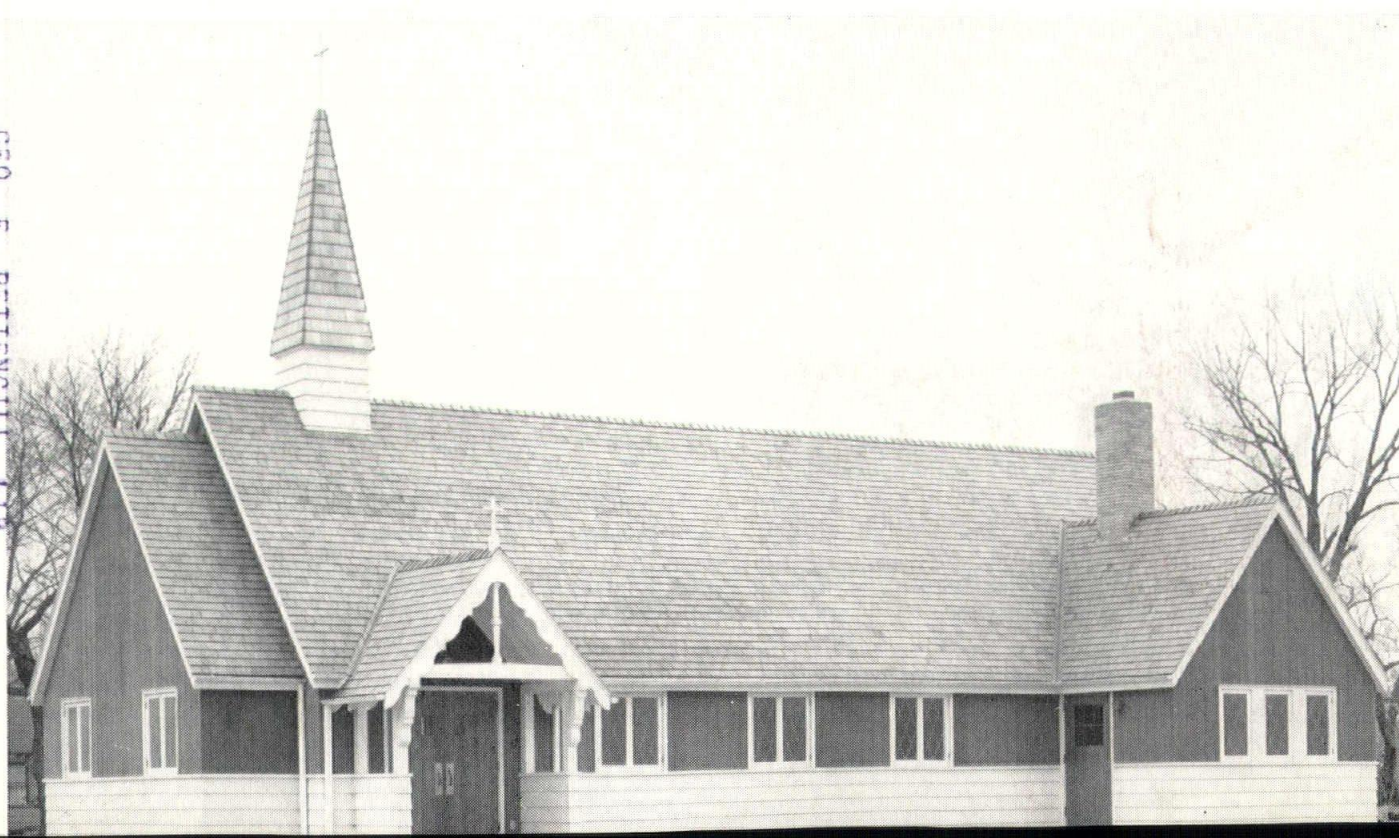
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