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July
August
1957

Volume XXI
Number Four

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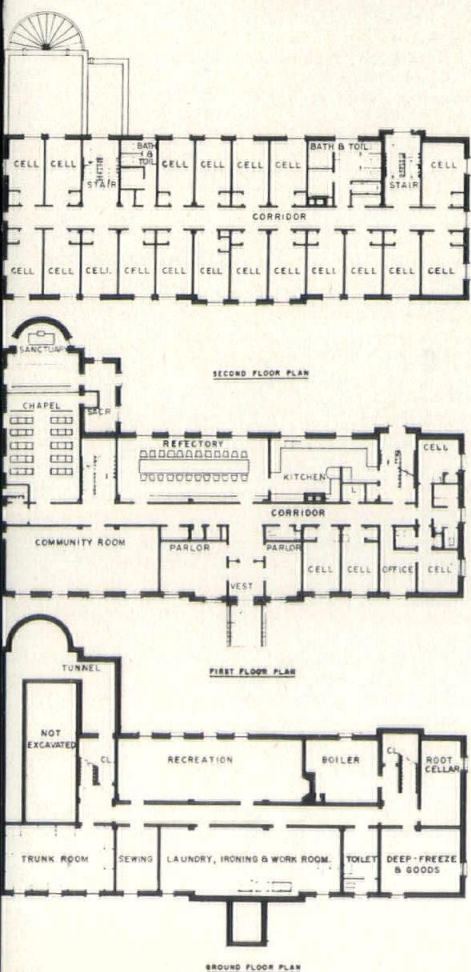
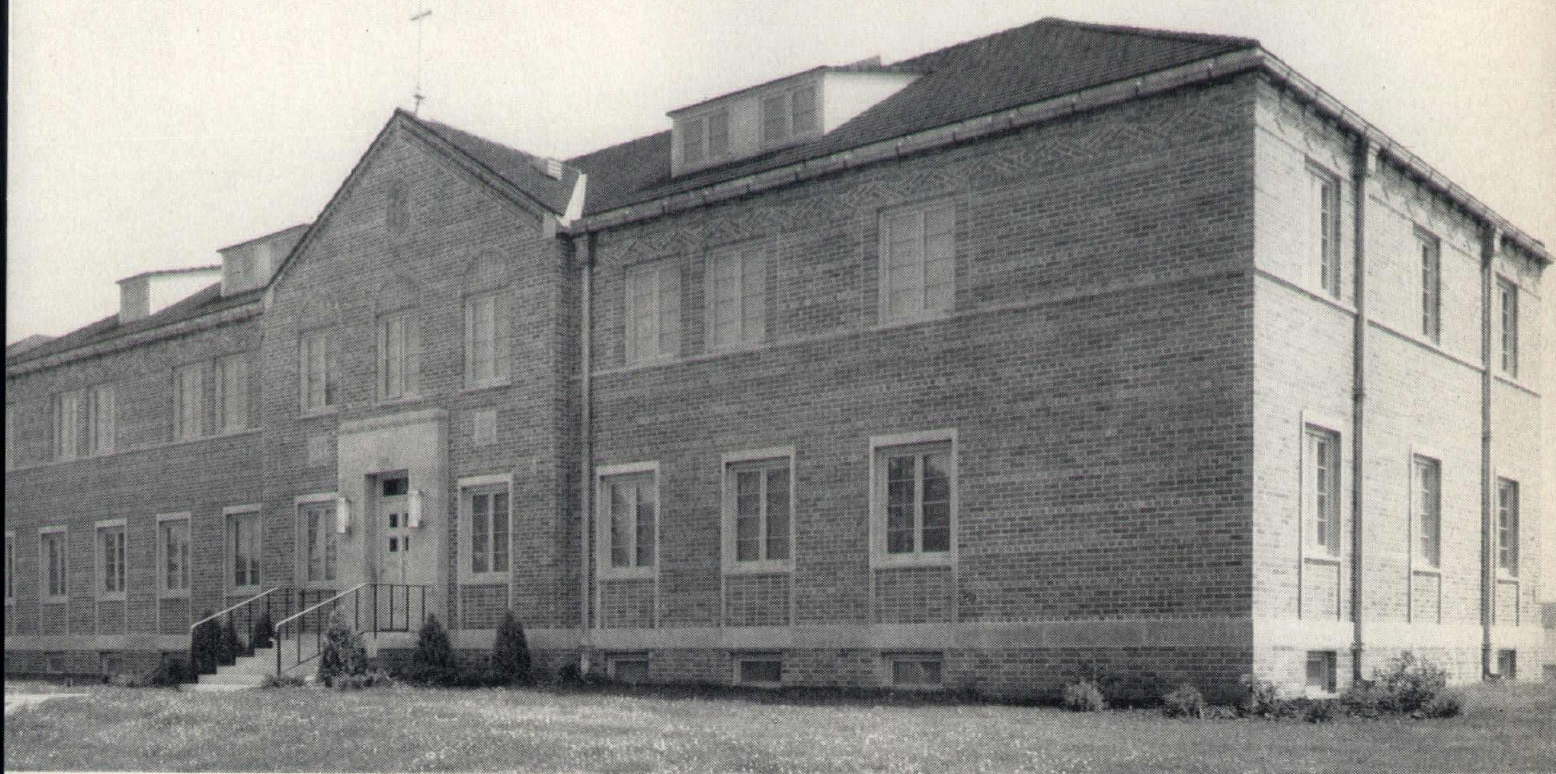
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In This Issue:

Magney, Tusler and Setter Monograph.....	23
Minnesota Society Convention Report.....	34
Chapter, Club and Other News.....	45
Regional Conference to Be Held.....	47
Twin Cities' Builders' Exchanges Play Golf.....	65
Products and Services.....	71
Index to Advertisers.....	82

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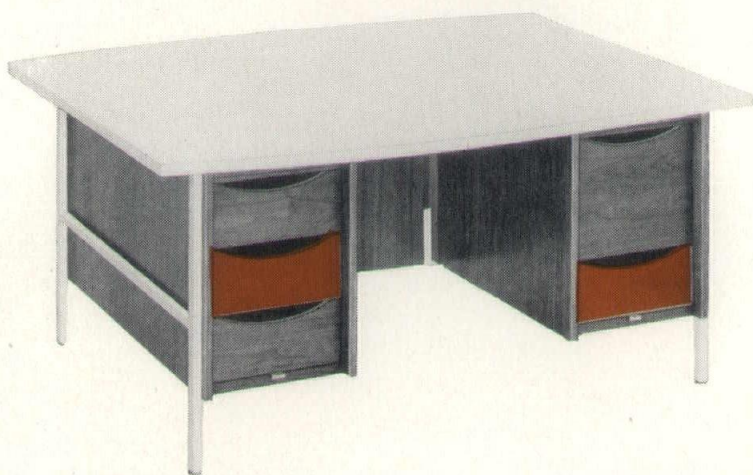
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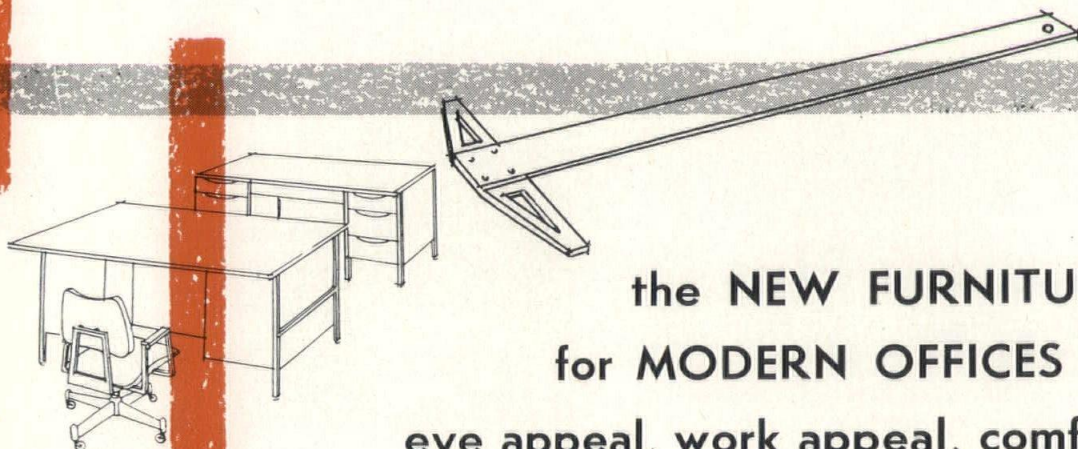
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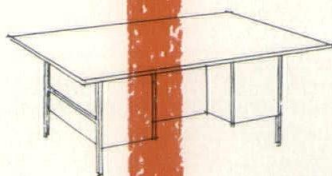


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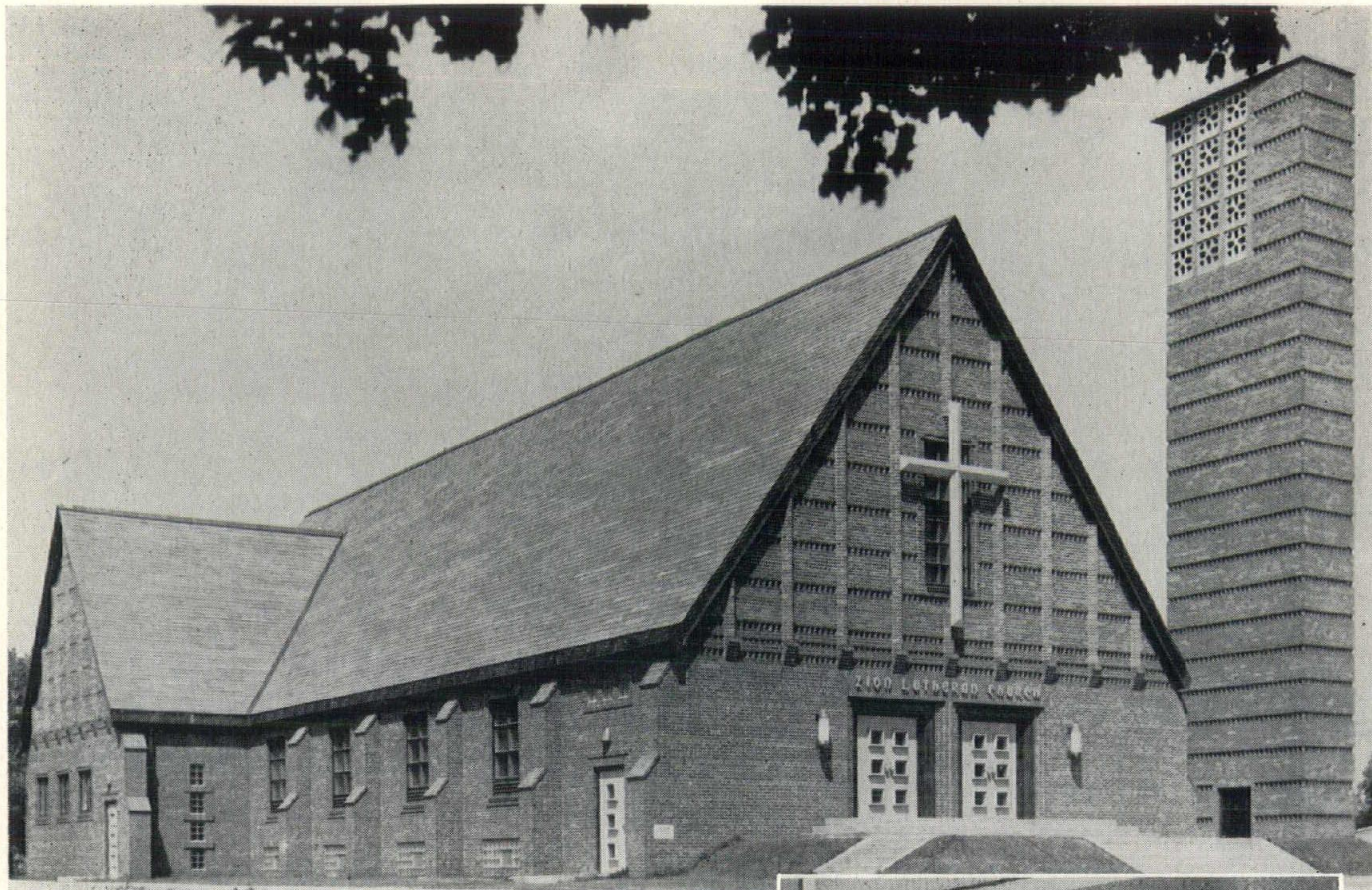
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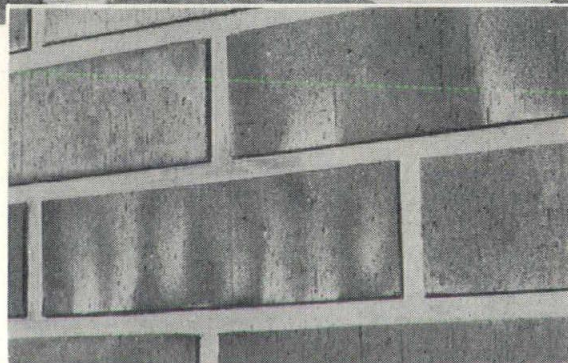
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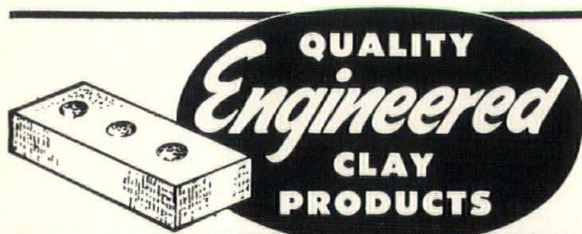
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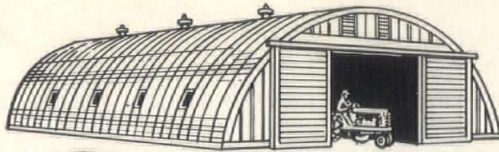
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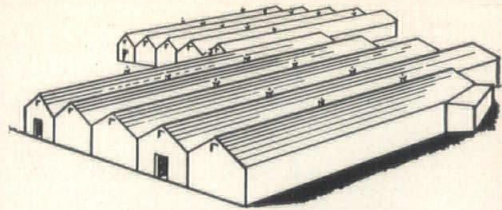
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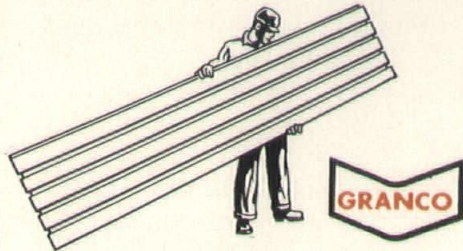
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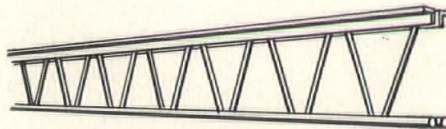


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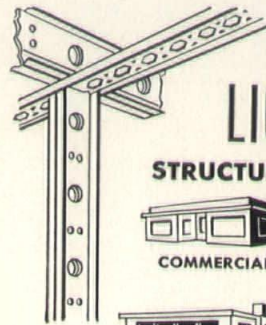
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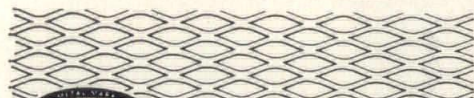
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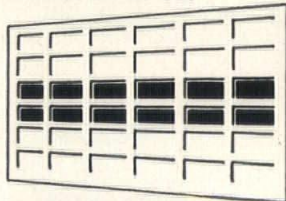


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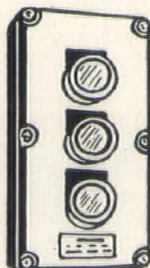


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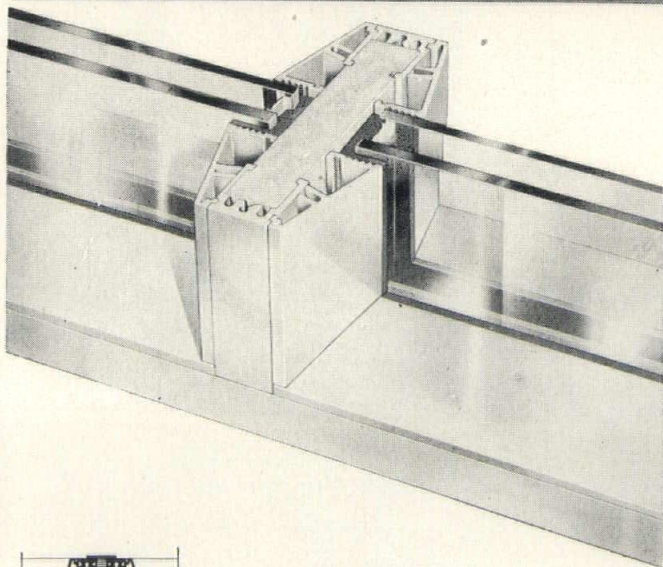
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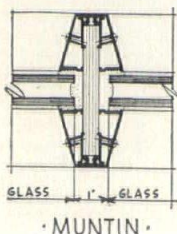
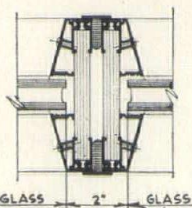
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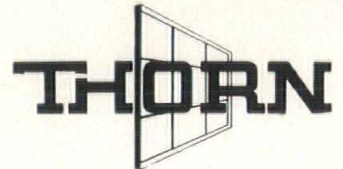
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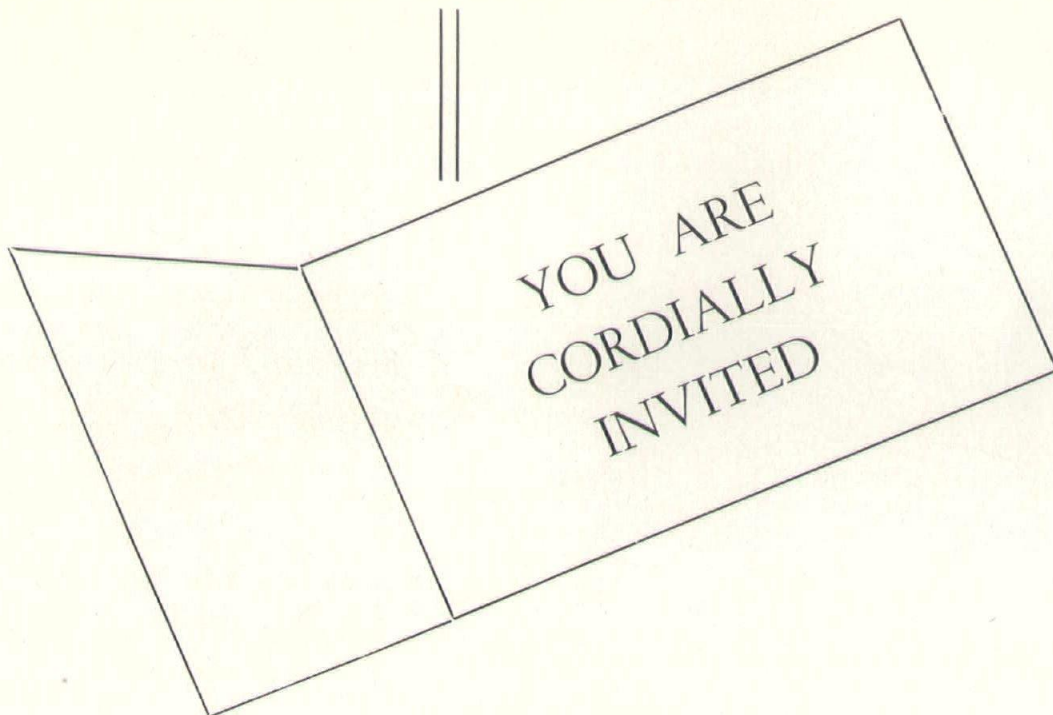
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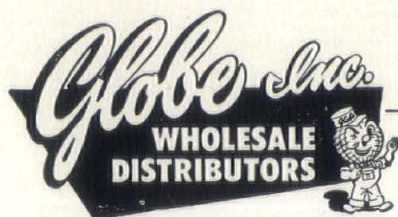
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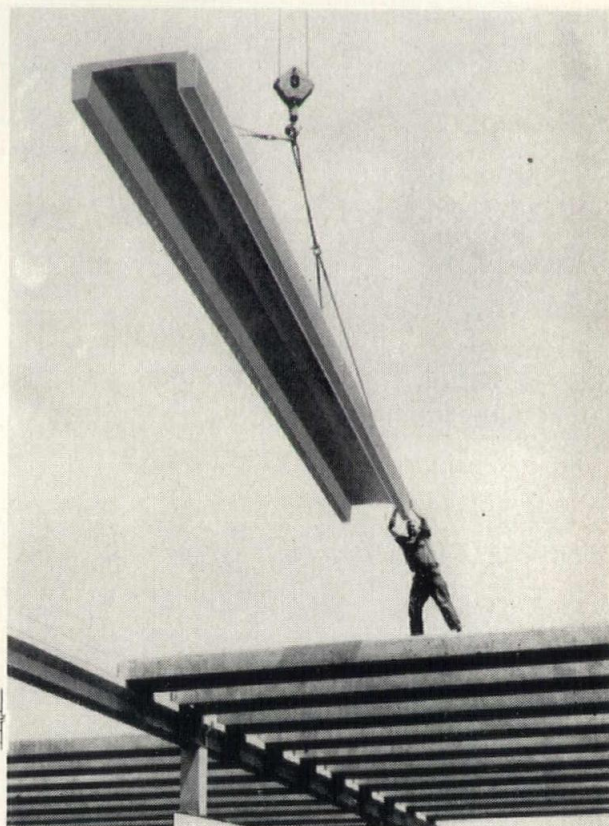
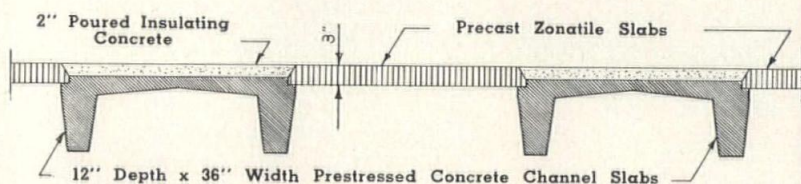


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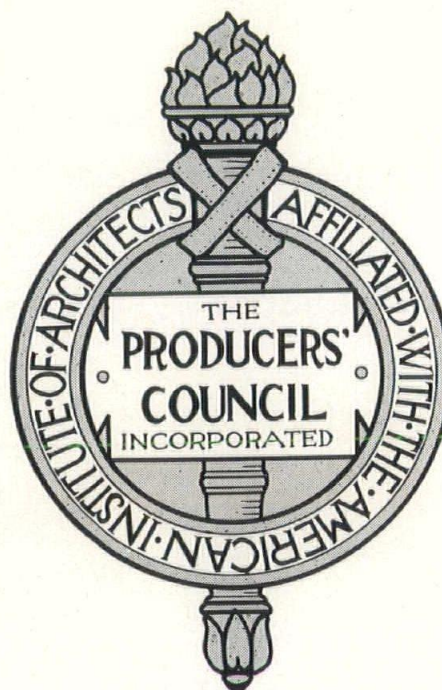
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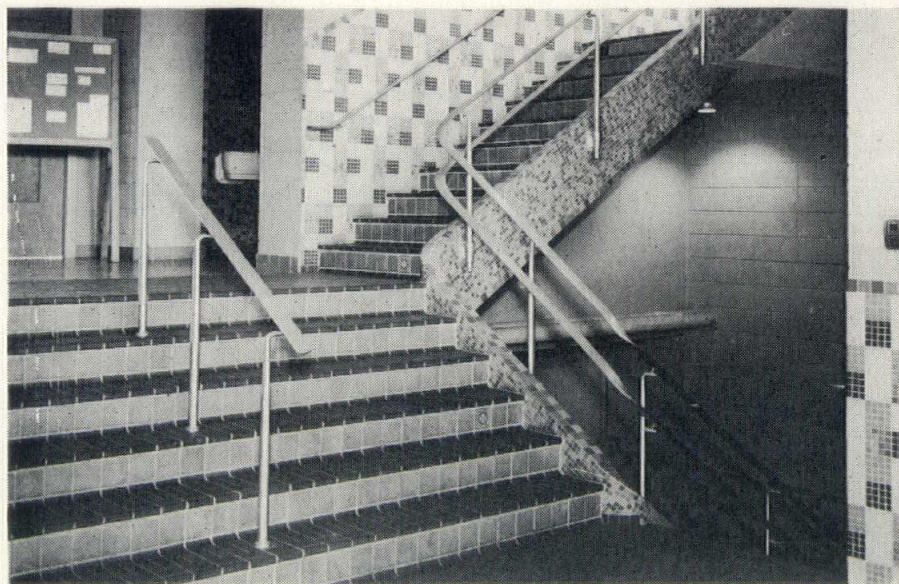
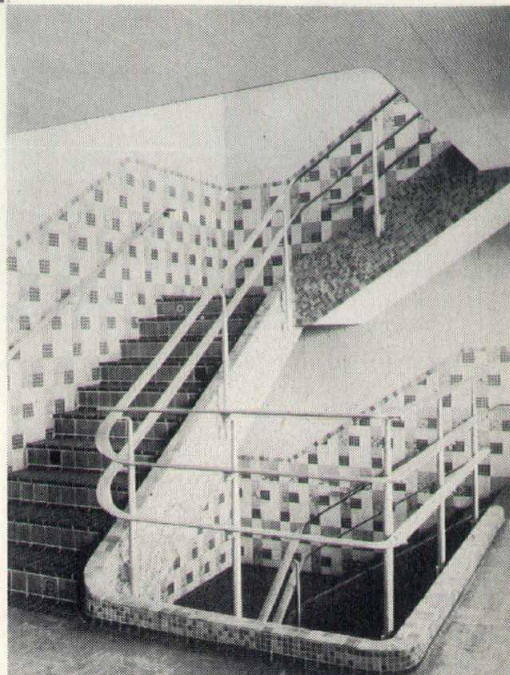
to those who

look

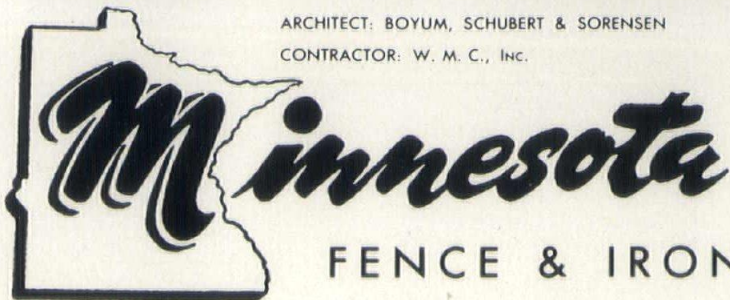
for quality

Good design of enduring beauty on the difficult curves pictured on this page is carried out by the skilled craftsmen at Minnesota Fence & Iron Works.

These functional aluminum stair rails in the Women's Dormitory at Eau Claire State Teachers College were fabricated to follow the slope and turn of the stair, conforming to the contour of the architectural theme. Minnesota Fence & Iron Works has proved itself dependable through the many years of service in the Northwest to architects, engineers and contractors. New expanded facilities will make possible even greater service in meeting your requirements.



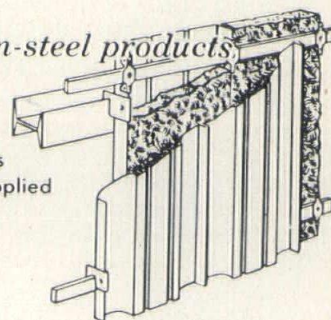
ARCHITECT: BOYUM, SCHUBERT & SORESEN
CONTRACTOR: W. M. C., INC.



FENCE & IRON WORKS

240 UNIVERSITY AVE. • ST. PAUL • CA. 2-6356

Stran-Steel panels, available in several styles and widths, are easily applied with metal clips



architectural metals

industrial fencing

wire enclosures

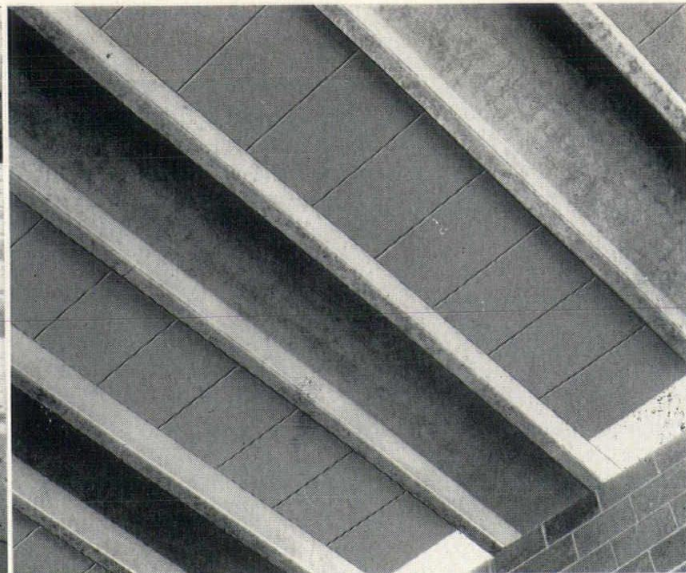
steel pan stairs

fire escapes

railings

stran-steel products

fabricators and erectors since 1869



Zonatile ROOF SLAB IS VERSATILE!

Photographs above show the application of Zonatile in a unique roof deck system designed by *Bettenburg, Townsend, Stolte & Comb* for the new manufacturing plant of Producers Container Company, Savage, Minnesota. Here Zonatile slabs span the three-foot spacings between prestressed concrete channel slabs. This system brings several new advantages to both architects and builders: overall weight, and cost, are greatly reduced, yet the permanent all-concrete construction receives a two-hour fire rating. Zonatile also increases the insulation value of the roof . . . gives the ceiling higher acoustical correction. Installation is rapid and uncomplicated.

Why not let Zonatile contribute to the success of your next building? The drawings at the right show typical Zonatile applications on various structural systems . . . we will be happy to provide engineering consultation on any specific job.

Why Zonatile Assures Quality Roof Decks:

Lightweight Zonatile is machine cast from vermiculite concrete, then kiln cured under carefully controlled conditions. Each slab is dimensionally accurate, reinforcing steel is positively placed, material consistency is uniform. Zonatile cannot burn, rot or decompose. Zonatile's undersurface provides an attractive finished ceiling. It has excellent sound absorption (NRC = 0.60).

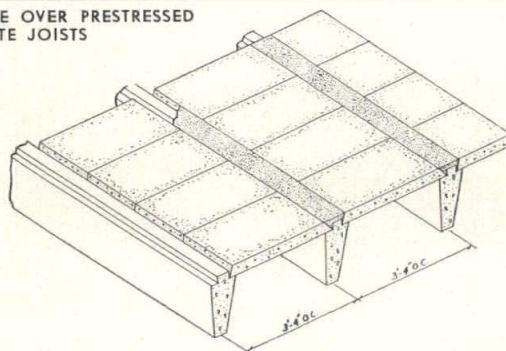
Zonatile is available for immediate delivery

**WESTERN MINERAL
PRODUCTS COMPANY**

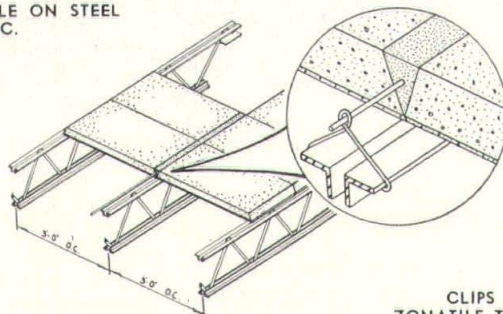
1720 Madison St. N.E.

Minneapolis 13, Minn.

ZONATILE OVER PRESTRESSED
CONCRETE JOISTS

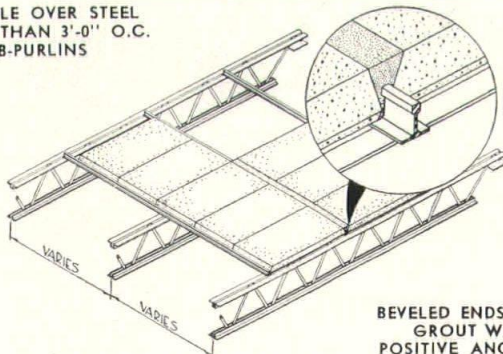


ZONATILE ON STEEL
3'-0" O.C.

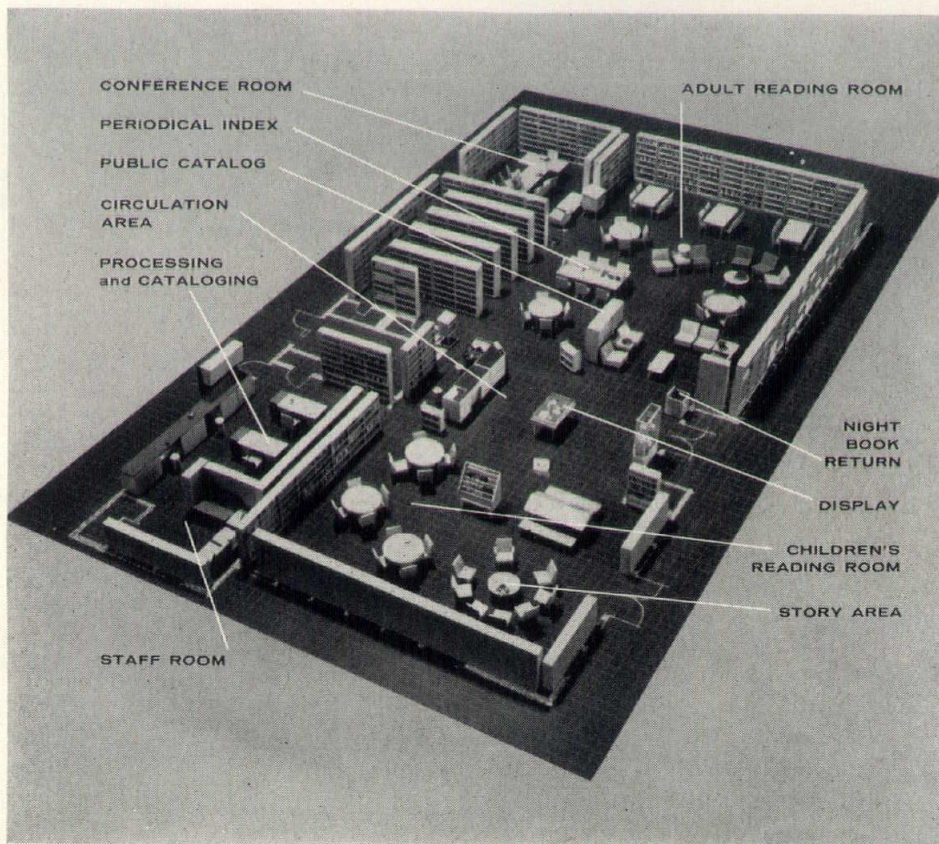


CLIPS ANCHOR
ZONATILE TO JOISTS

ZONATILE OVER STEEL
OTHER THAN 3'-0" O.C.
USE SUB-PURLINS



BEVELED ENDS PROVIDE
GROUT WEDGE . . .
POSITIVE ANCHORAGE



ALL THIS PICTURE NEEDS IS YOU

... at the circulation center of this warm, friendly and remarkably efficient "New Life" Library. Take this opportunity to look around. Anything missing? Well, let's see. Records at finger-tips... staff room nearby... conference room out of heavy traffic... layout just right. No questions or comments? Then whisk it away—to your "New Life" distributor (who can make "dream libraries" —like this—come true).

SJÖSTRÖM OF PHILADELPHIA

Designers and Manufacturers of

IN MINNESOTA: **HALDEMAN-HOMME, INC.**

2580 University Ave., St. Paul, Minnesota

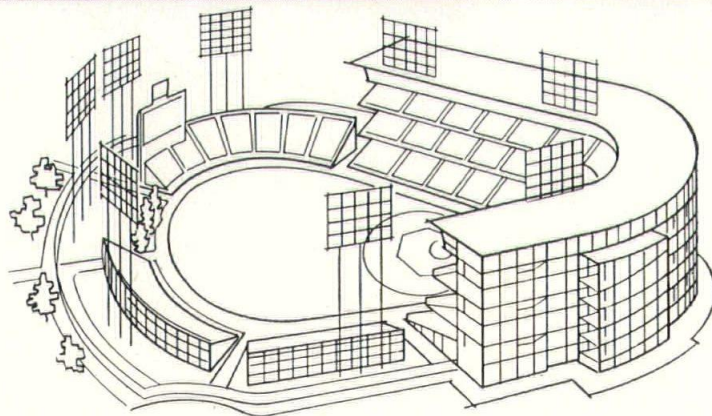


How to build a good



Architect: Thorshov & Cerny, Minneapolis, Minn.

Contractor: Johnson, Drake & Piper, Inc., Minneapolis, Minn.



ence and **FEEL BAD!**

Building a fence for the world's most modern ball park should make a hit with any red-blooded American firm . . . Crown Iron Works, for instance.

Yet hardly any of the craftsmen from Crown could resist a feeling of nostalgic sadness when they began erecting the out-field fence at Minneapolis' new Metropolitan Sports Stadium. Imagine a fence 1,650 feet long and not a single knothole!

In between sympathetic words designed to help mend the crushed feelings of youthful spectators, Crown craftsmen got it up fast—in the short time between frost break and opening day. What's more, this modern leather-grained, 16-gauge aluminum fence will still be withstanding the onslaught of both weather and fence-busting batsmen when this youngster's taking his grandchildren "out to the old ball game."

Just as substantial and handsome, too, are the four miles of railings and two 154-foot light towers that Crown put up within the same tight timetable.

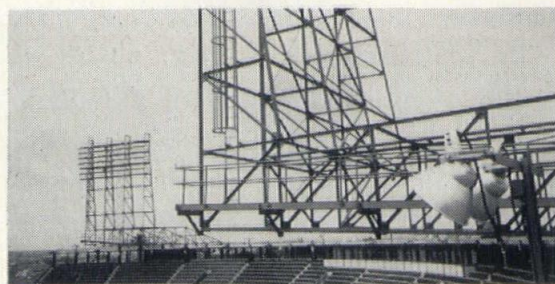
When you want errorless performance in a clutch situation, why not call on Crown Iron Works, too? They'll delight in pitching in to solve your fabricating problems . . . fast!

CROWN IRON WORKS CO.

1229 Tyler Street N.E., Minneapolis 13, Minnesota, STERLING 9-3556



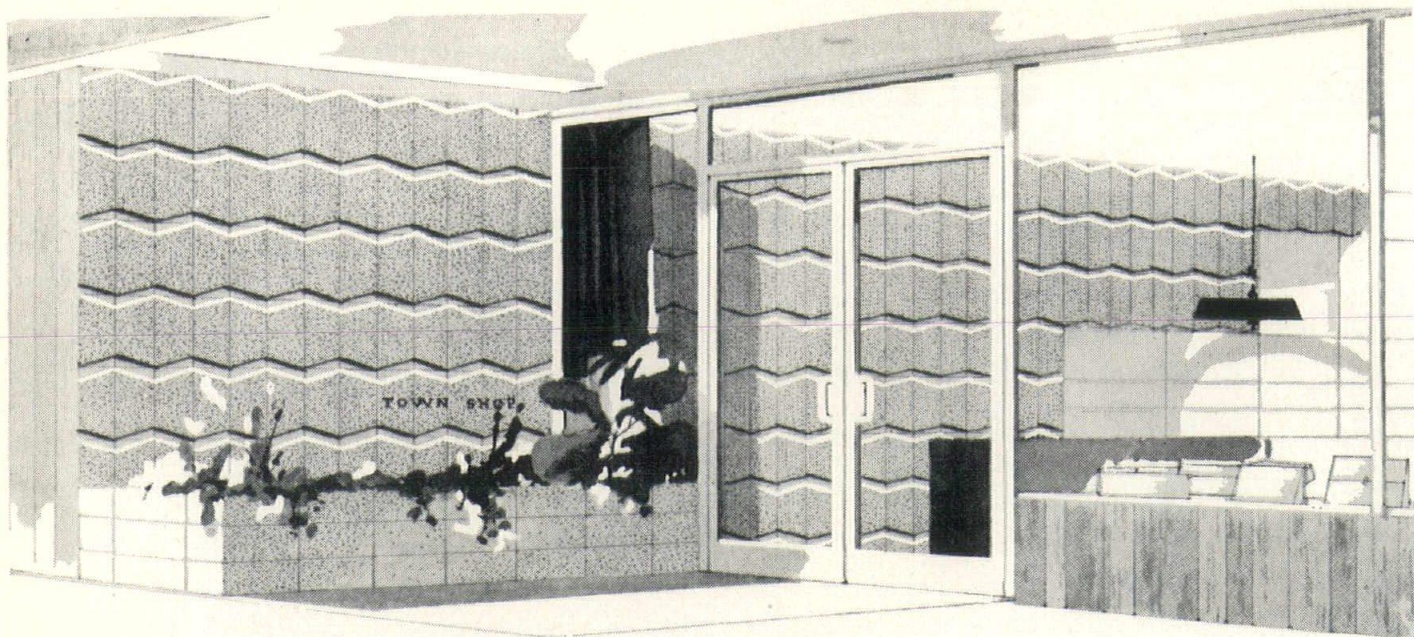
THE MINDS AND METALS TO SOLVE YOUR PROBLEMS



Employing modern cantilever design, Crown constructed and installed these two stadium-top light standards, each towering 154 feet high.



Within the stadium's total seating capacity of 30,000 there are four miles of hand rails around the box seats. Total cost of the stadium was upwards of \$4½ million.



Before you build, see

shadowal BLOCK

TRADEMARK

FOR COMMERCIAL AND HOME CONSTRUCTION

Shadowal block is a new concept in exposed masonry construction. An angled recess in the face of a modular block gives Shadowal a "built-in" pattern. When laid together in a wall, virtually limitless numbers of attractive designs with a dramatic third dimension effect are possible.

Shadowal block is . . .

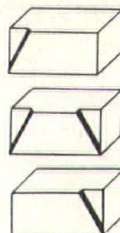
VERSATILE—permits unlimited sculptured patterns in modular units

DISTINCTIVE—each pattern individually distinctive in charm and character

EXPENSE-SAVING—no expensive wall finishing costs or maintenance expense

ACOUSTICAL—renders relaxing atmosphere by absorbing unwanted noises

FIRE SAFE—the most priceless security in modern construction



HERE'S THE SECRET OF SHADOWAL BLOCK

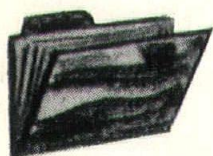
The 8" x 16" face of a modular concrete, or light weight block is recessed at an angle on each corner. These recesses catch the light and create shadows giving Shadowal masonry's dramatic effect. Variations of this unit are available with the recess in right hand or left hand corner, or both.

the ideal
companion
product . . .

Shadow Stone®

The Modern Masonry Veneer

Shadow Stone, is a concrete masonry product of cement and limestone. Flat slabs are split to create a textured face of unusual beauty. This rugged masonry Veneer has all the charm, dignity and durability of fine quarried stone or the best face brick, plus many unique qualities that have brought enthusiastic endorsement from leading architects and builders. Complete physical facts, specifications and prices available on request.



Write or call for your **FREE SHADOWAL MASONRY PORTFOLIO**

CHAS. M. FREIDHEIM CO.

Manufacturers of Haydite and Sand and Gravel
Concrete Products—Ready Mixed Concrete

WAlnut 6-7681
5115 West 36th Street
St. Louis Park, Minn.

NORTHWEST ARCHITECT

The following ten pages comprise a
Monograph of the work of

Magney, Tusler and Setter

Minneapolis, Minnesota

Magney, Tusler and Setter this year observes its 40th anniversary—in terms of continuous service the oldest architectural and engineering firm in Minneapolis. Formed in 1917 as Magney and Tusler, MTS's design encompasses hospitals, commercial buildings, churches, residences, schools and other educational buildings.

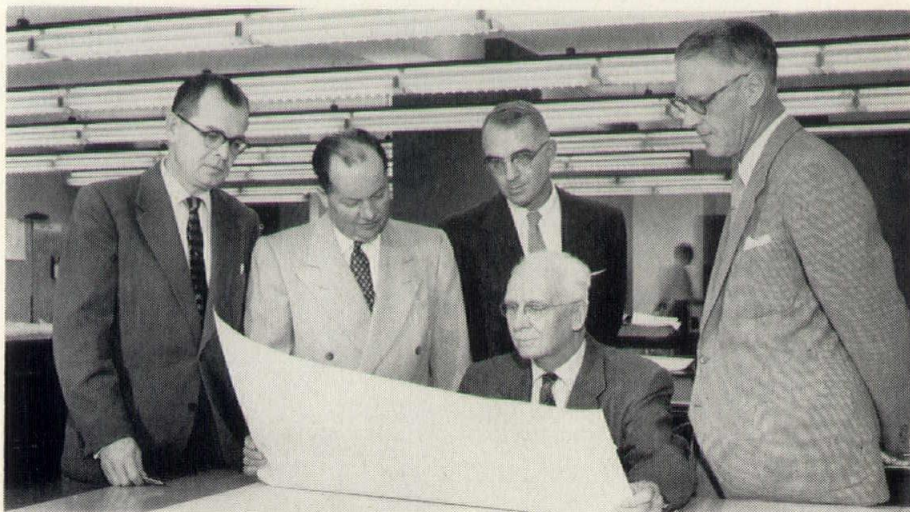
G. R. Magney and W. H. Tusler are the original partners. In 1939 Donald P. Setter joined the firm, giving it its present name. When G. R. Magney retired in 1954 Mr. Tusler became the senior partner.

Since the beginning MTS has been an exponent of modular construction. Early in the game, too, the members recognized the need for integration of design and engineering and since 1917 have operated fully staffed structural, mechanical and electrical departments.

In 1952 three more firm principals were named, Stowell D. Leach, John Lindstrom and John R. Magney. All have been with the firm since 1945 and all have served in many local and national posts in the AIA and on secular and governmental committees. Firm associates include Harry Sierk, Norman Knafla, Charles Magney, Gordon Matson, Samuel Mayo, Mearl Peterson, John Borgman, Jack Wilwerding, Robert Magney, James Horan and Donal Hustad.

Postwar building found MTS a focal point for plans that have changed the skylines of towns and cities throughout the upper midwest. Meeting the demand for hospital and medical facilities, MTS has completed, or has in working drawings, eight hospitals for Minneapolis and 29 others throughout this area, of which four are psychiatric hospitals and six are special hospitals and health services.

MTS's outstanding work in the hospital field has won four "Hospital of the Month" citations from "Modern Hospitals" magazine. No



Partners' conference finds John Lindstrom, John Magney, Stowell Leach and Donald Setter looking over working drawing with senior member of the firm, W. H. Tusler.



G. R. Magney, now retired, formed MTS with W. H. Tusler in 1917.

other architect in the nation has been awarded more than two. These citations were awarded for the design of the Variety Club Heart Hospital in Minneapolis, Stevens County Memorial Hospital, Meeker County Memorial Hospital and Bethesda Hospital in Crookston, Minnesota.

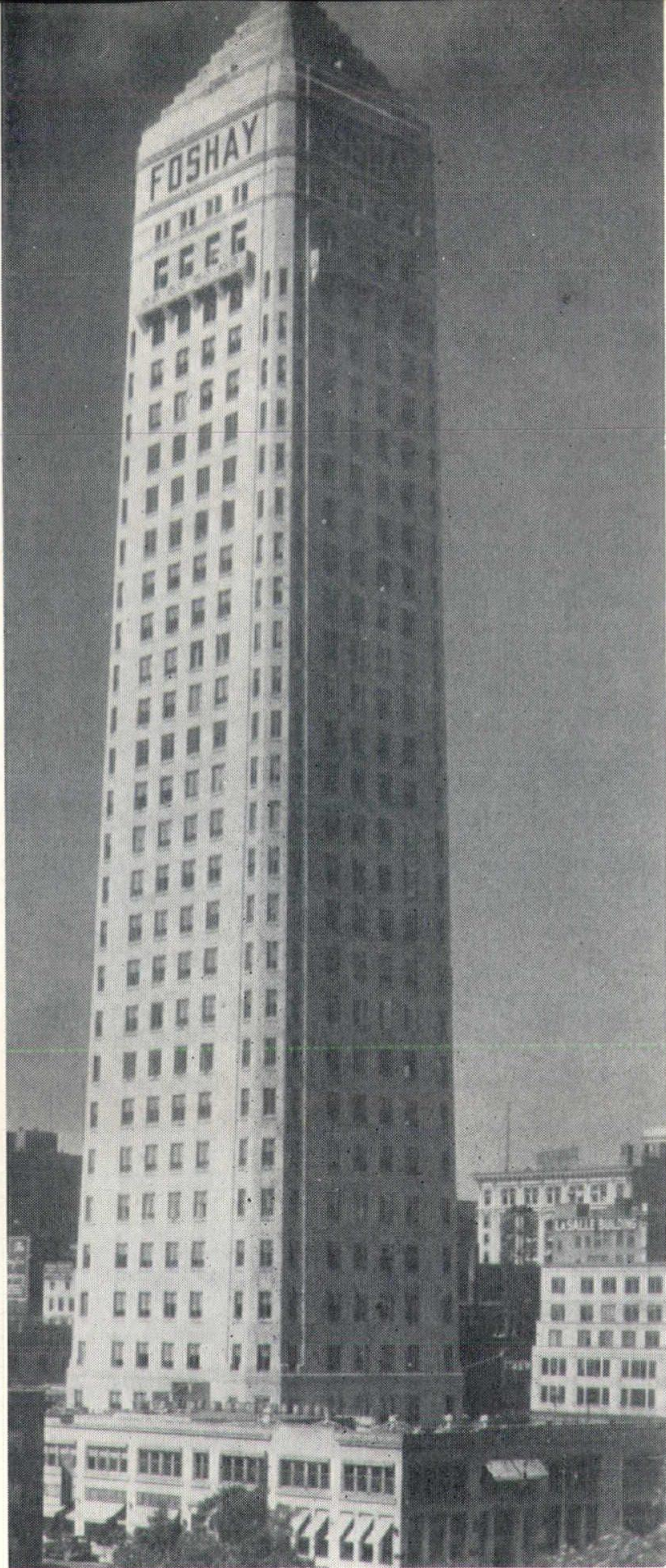
Occupying a great deal of space on MTS drawing boards are educational buildings. Seventeen buildings at the University of Minnesota, St. Paul and Minneapolis campuses,

have been designed or remodeled by MTS. Elsewhere in the state, buildings on the Carleton College campus, at Hamline University and at Gustavus Adolphus College have been designed and engineered by MTS. In addition, MTS has designed 54 elementary and secondary schools in Minnesota.

Far from secondary at MTS is the design of commercial buildings and churches. One of the high points of the firm's commercial design is the Prudential Insurance Company's North Central Home Office in Minneapolis, completed in 1955.

A great deal of work comes as the result of "repeat clients," as in the case of colleges and universities. The Northwestern Bell Telephone Company is another such repeat client, commissioning MTS for the design and remodeling of about 150 exchanges in Minnesota.

MTS occupies 9,950 thousand feet of floor space in the Roanoke Building in downtown Minneapolis and employs 91 full-time workers.



FOSHAY TOWER—Minneapolis, Minnesota

Major mileposts of MTS' early years include the design and engineering of the Minneapolis Women's Club in 1927, Swedish Hospital in 1928, the Foshay Tower in 1929 and the Minneapolis postoffice in 1934.



SWEDISH HOSPITAL—Minneapolis, Minnesota



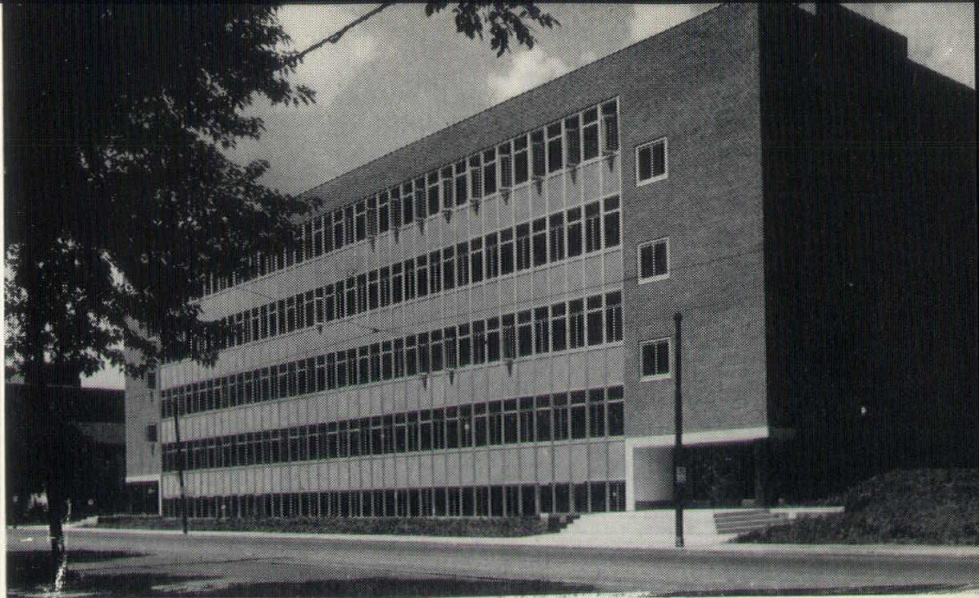
POST OFFICE—Minneapolis, Minnesota



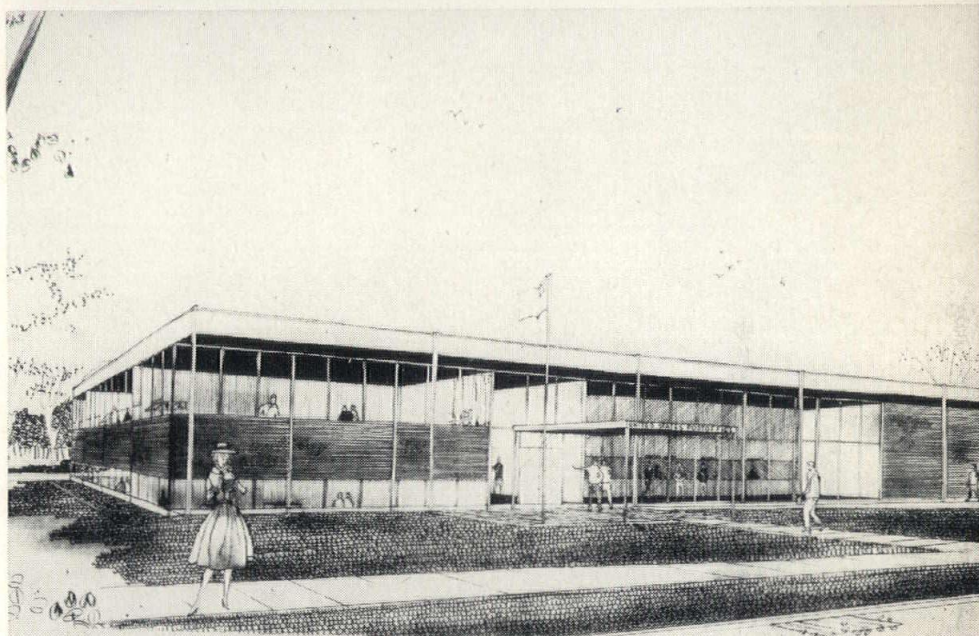
MINNEAPOLIS WOMEN'S CLUB—Minneapolis, Minnesota

NORTHWEST ARCHITECT

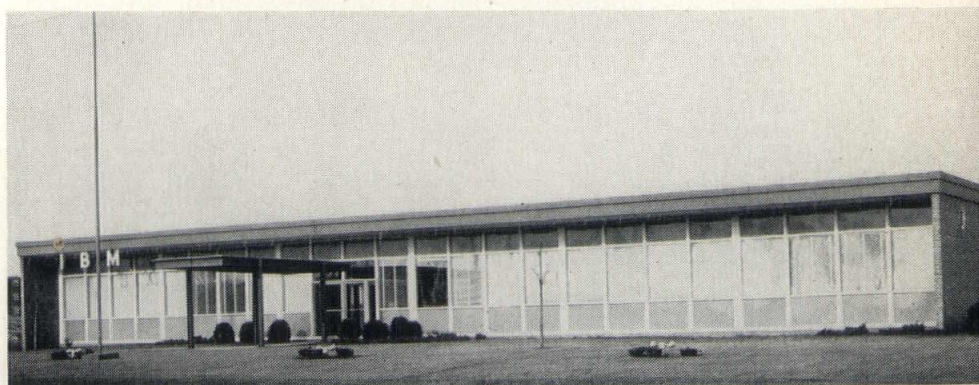
CHEMICAL ENGINEERING BUILDING
Minneapolis, Minnesota



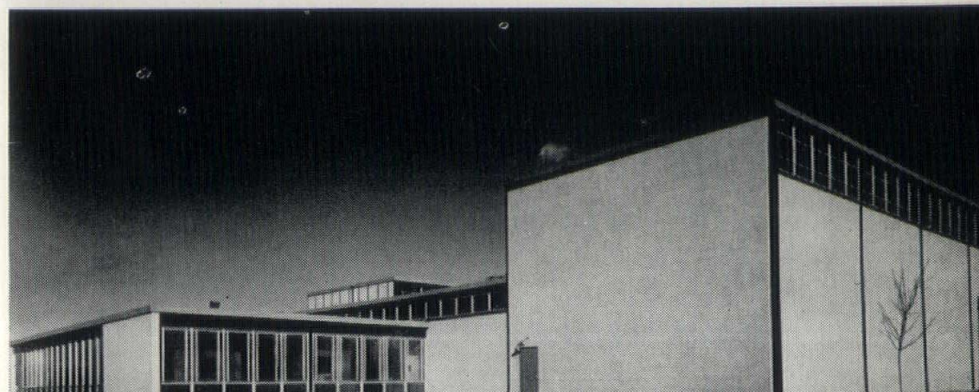
POST OFFICE
Redwood Falls, Minnesota

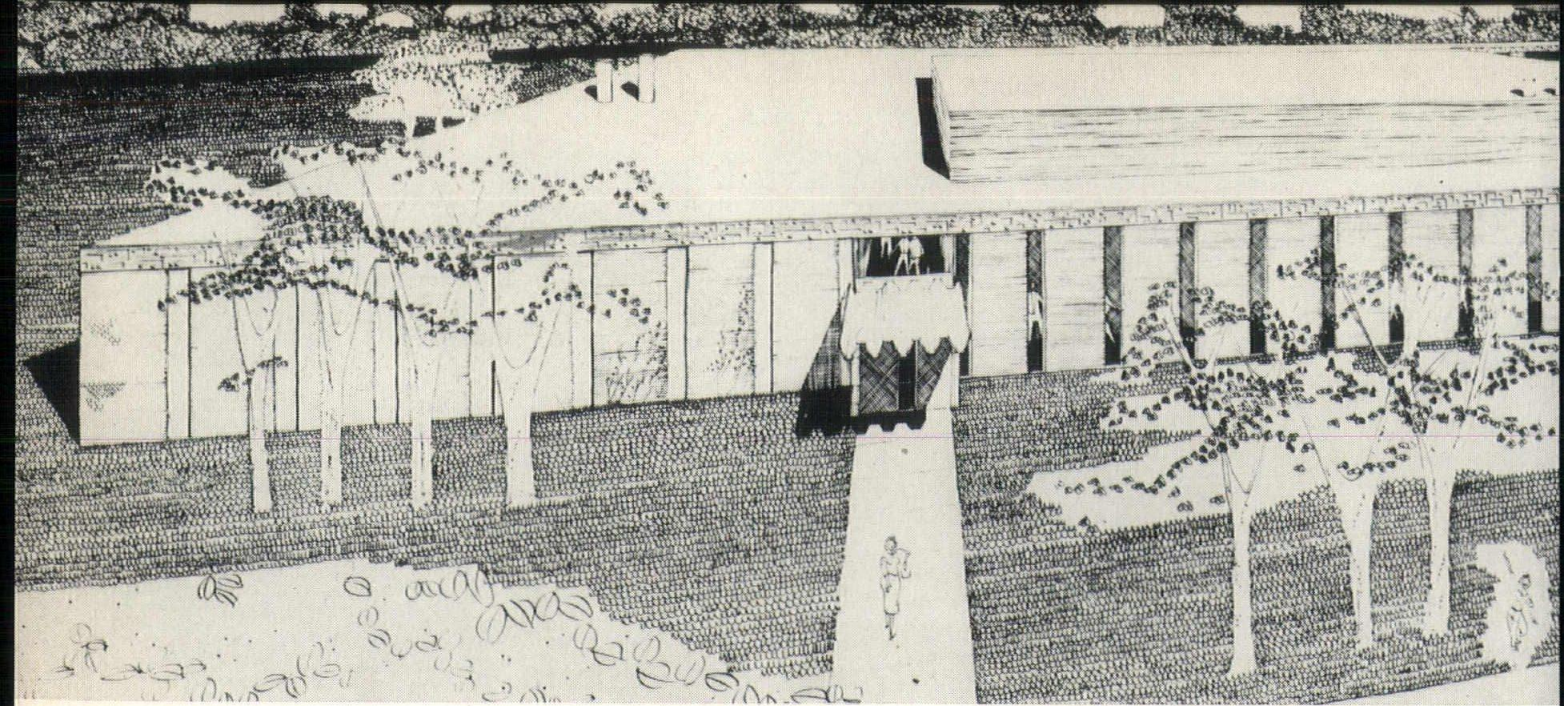


IBM BUILDING (Magnetic Tape Division)
Minneapolis, Minnesota

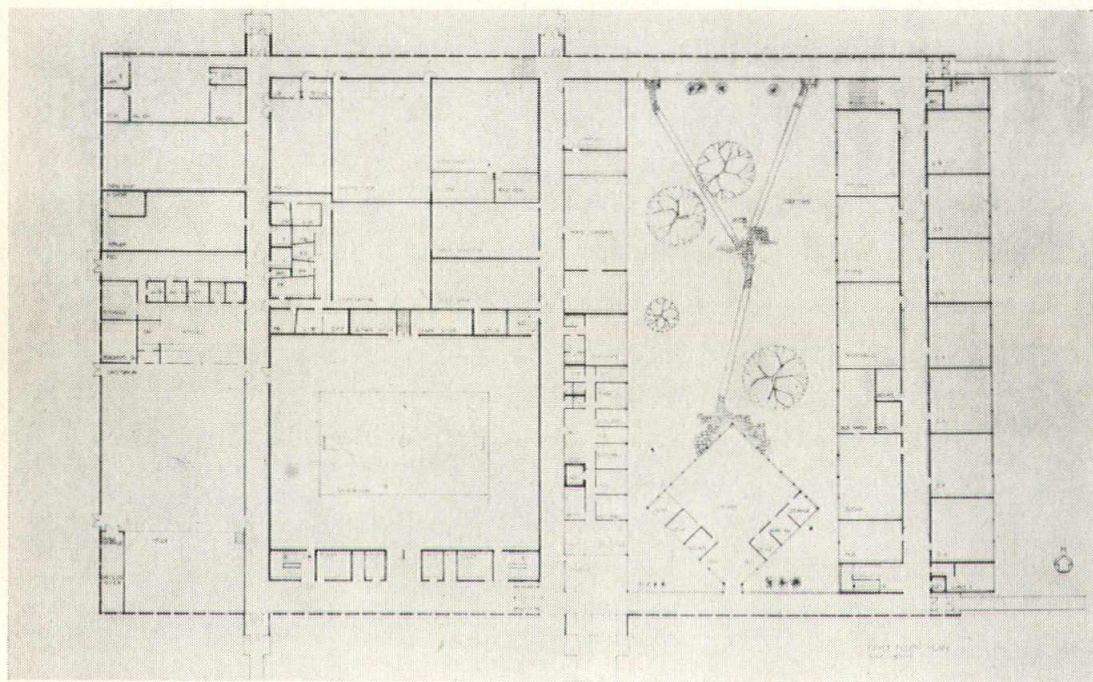


TRANE COMPANY
LaCrosse, Wisconsin



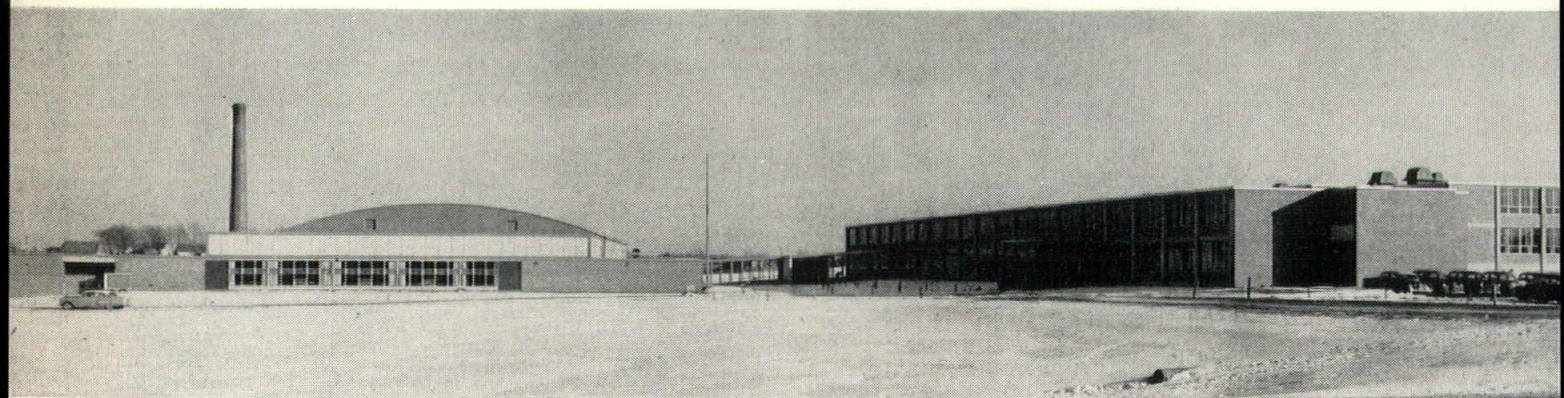


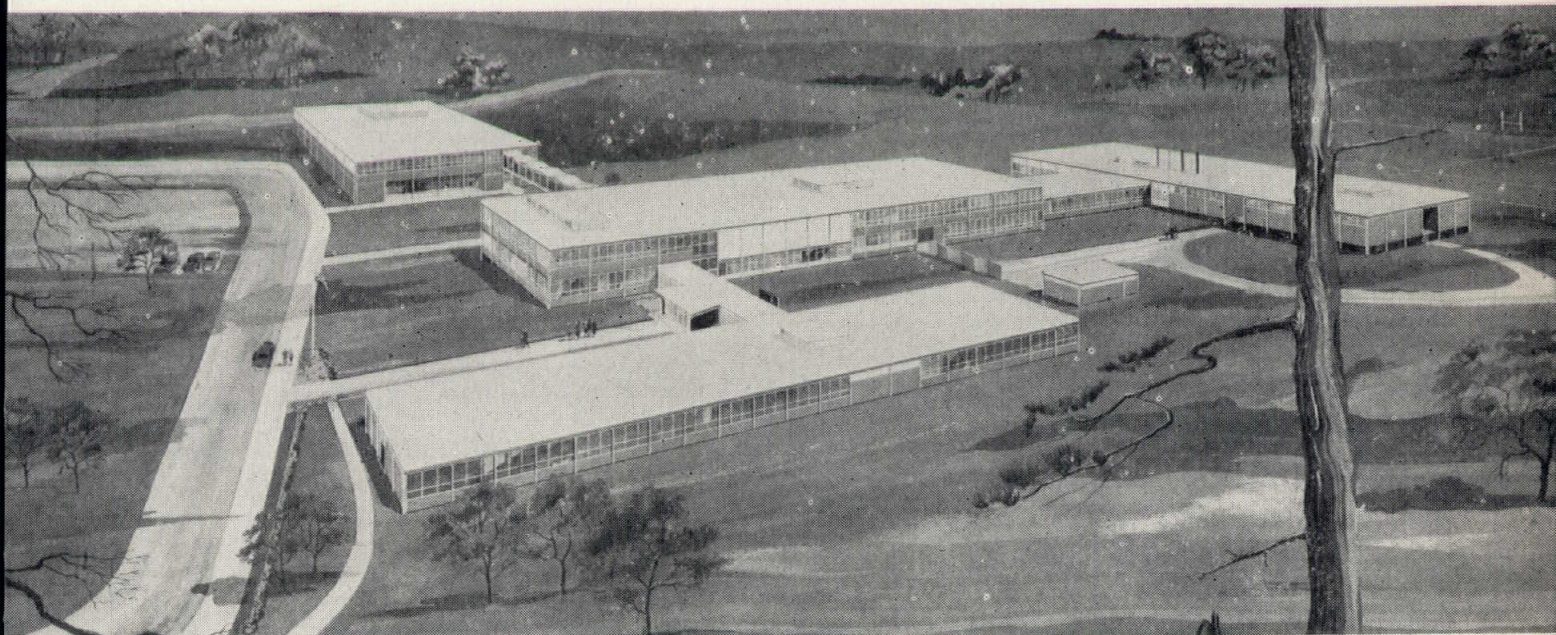
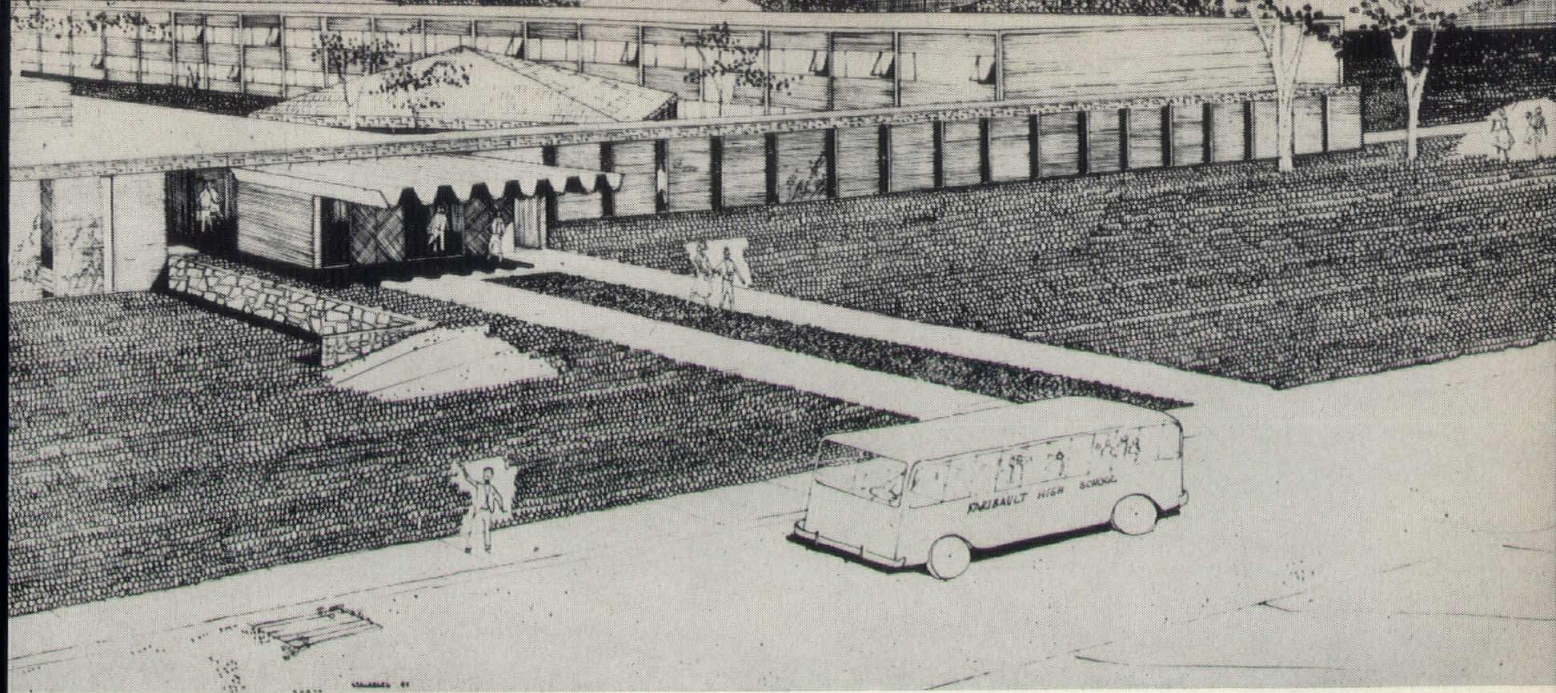
FARIBAULT HIGH SCHOOL
Faribault, Minnesota



FARIBAULT HIGH SCHOOL (Floor Plan)
Faribault, Minnesota

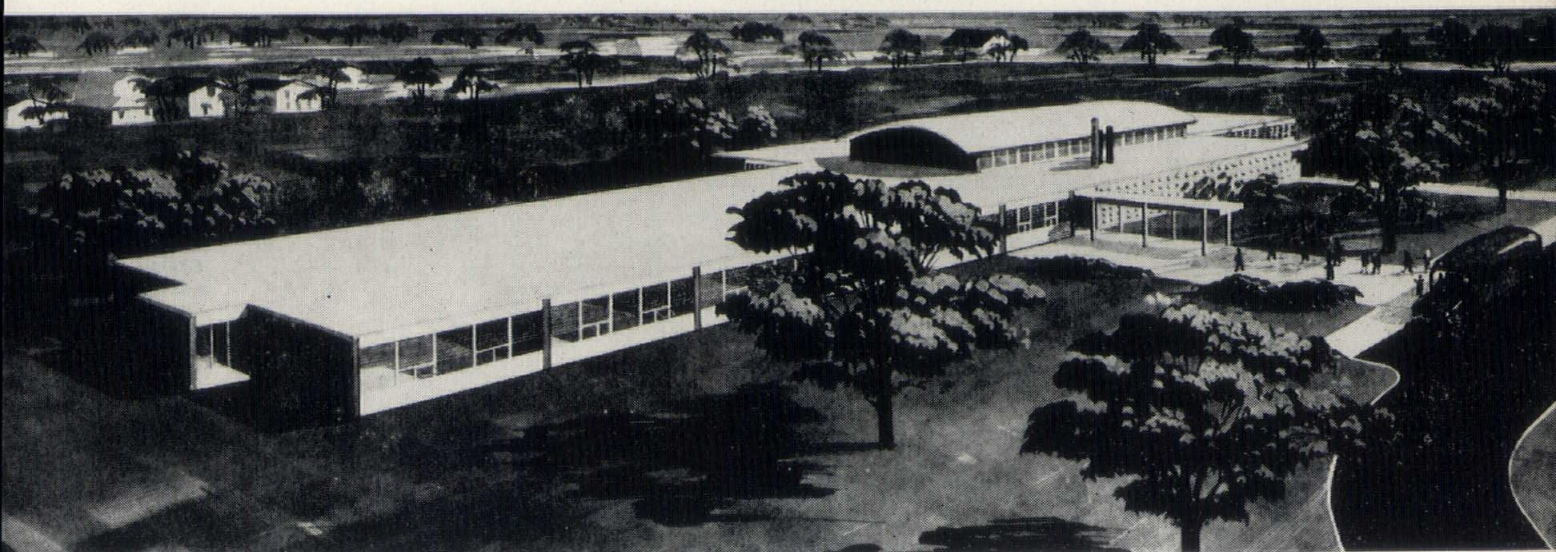
ALEXANDER RAMSEY JUNIOR-SENIOR HIGH SCHOOL
Roseville, Minnesota

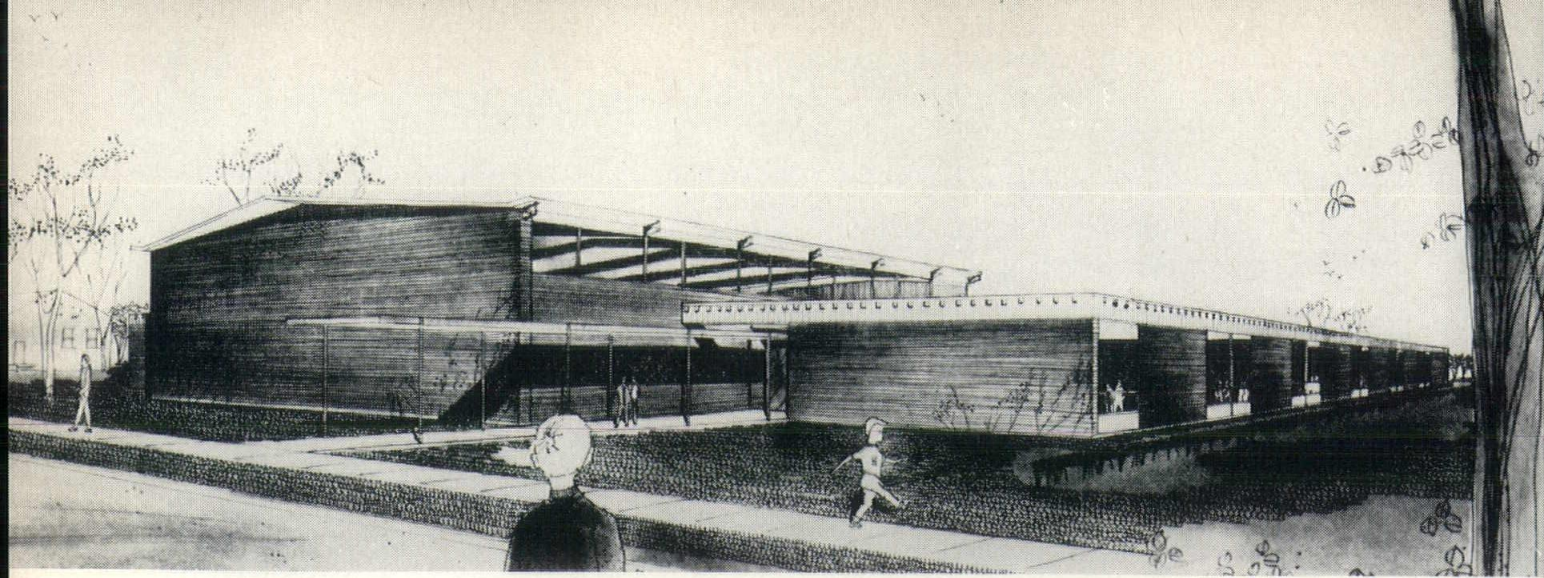




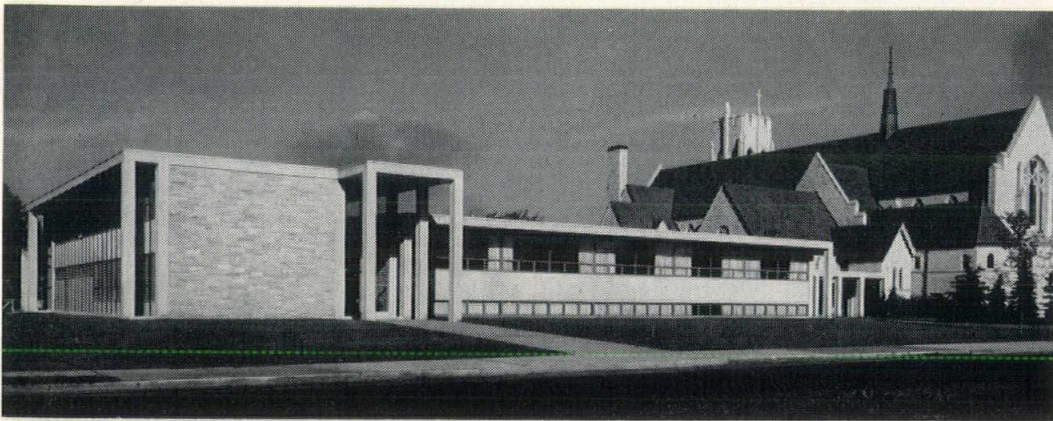
FAIRVIEW JUNIOR HIGH SCHOOL—Roseville, Minnesota

BREMHALL ELEMENTARY SCHOOL—Roseville, Minnesota



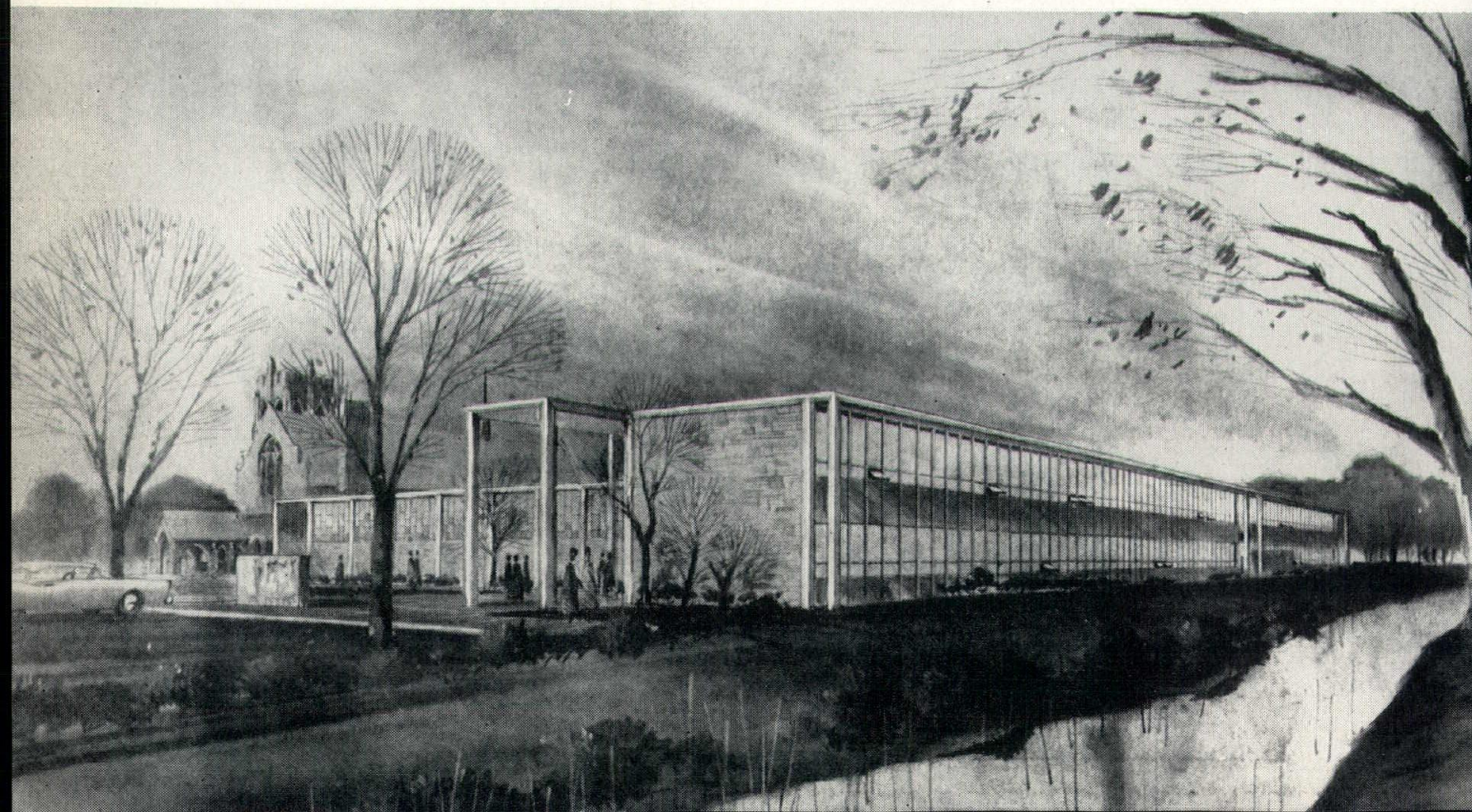


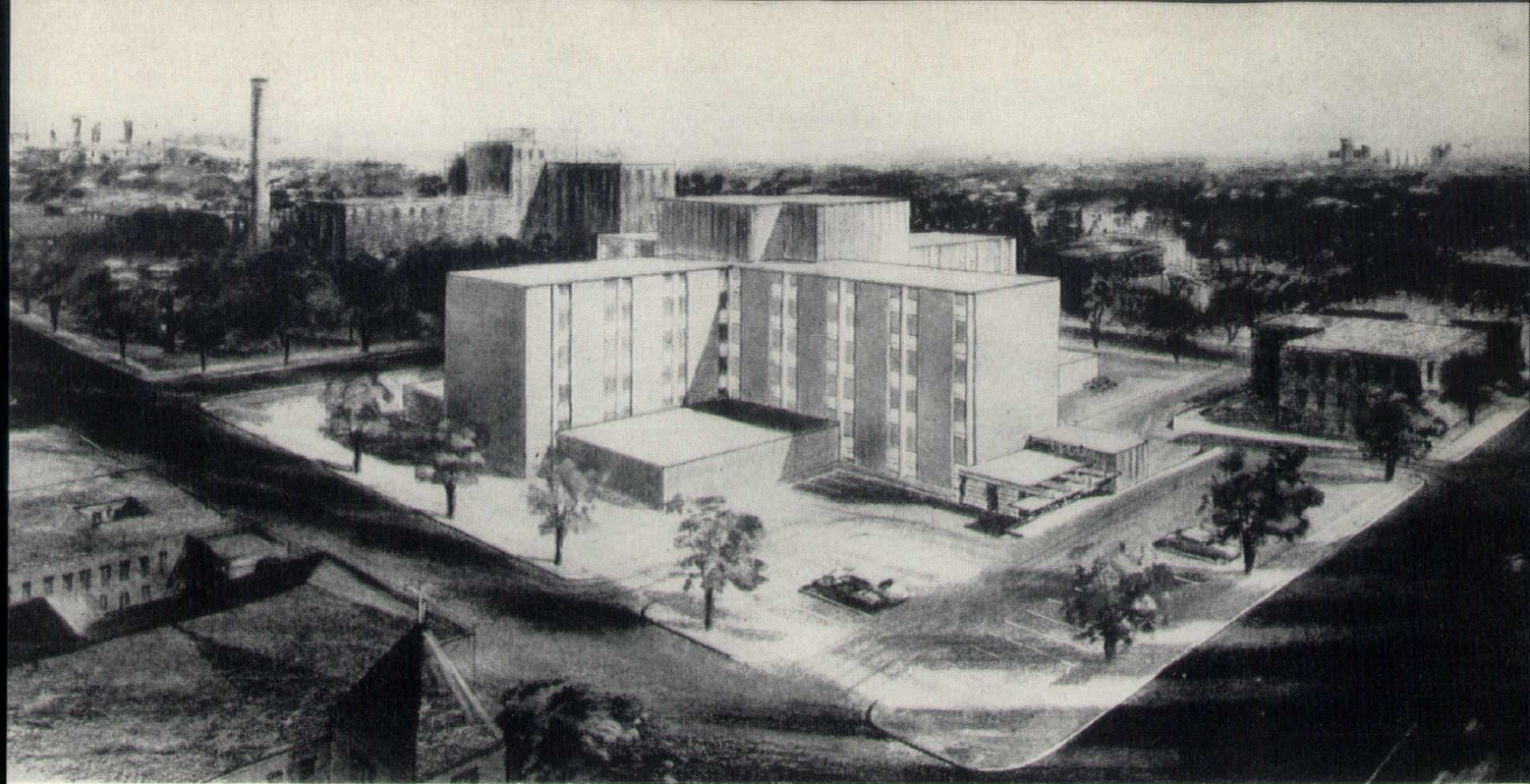
HASTINGS ELEMENTARY SCHOOL (2 identical Schools)
Hastings, Minnesota



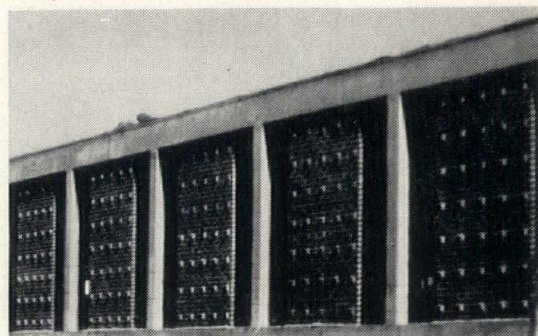
MT. OLIVET CHURCH SCHOOL ADDITION
Minneapolis, Minnesota

MT. OLIVET CHURCH (NEW) SCHOOL ADDITION
Minneapolis, Minnesota



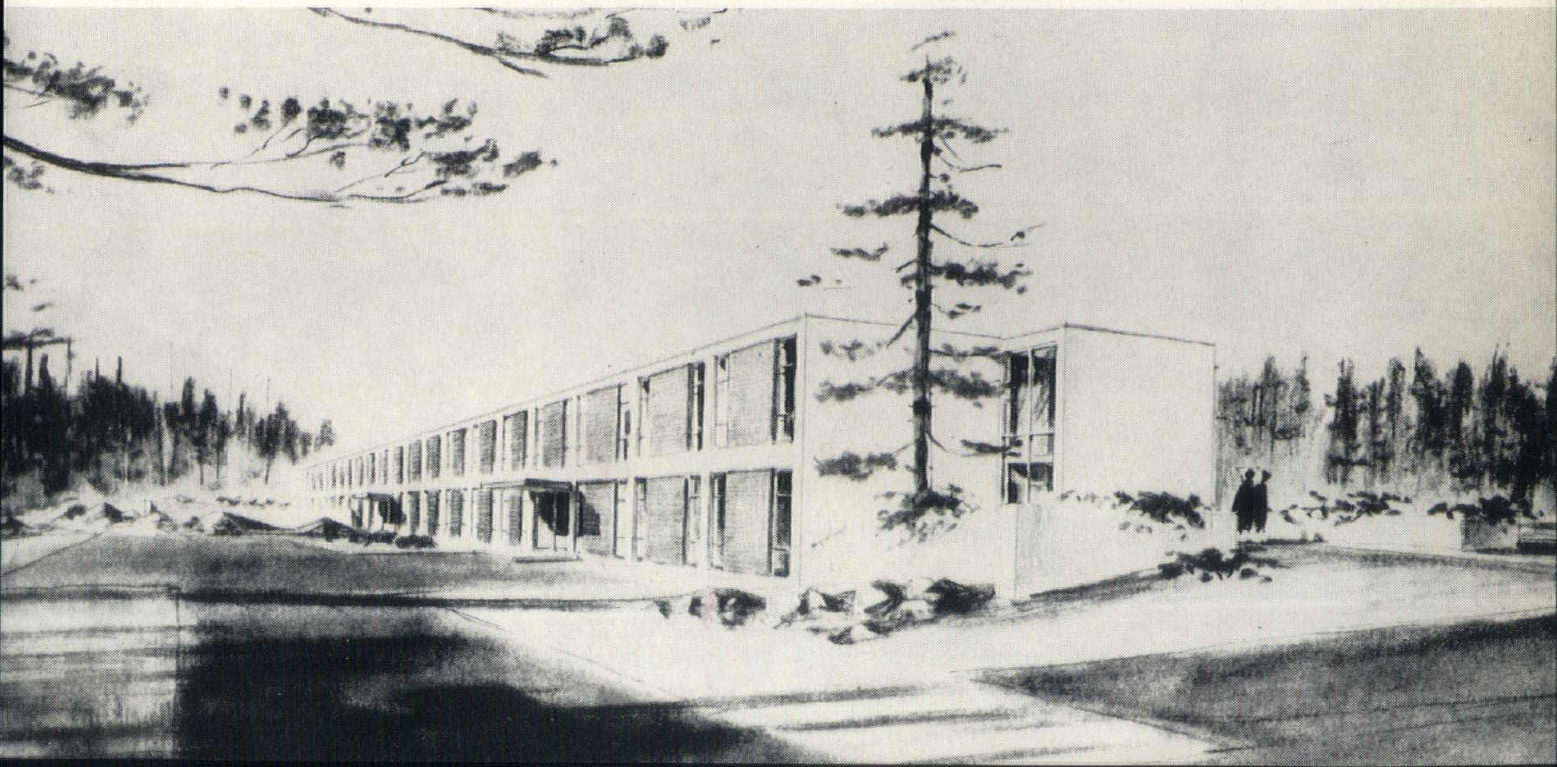


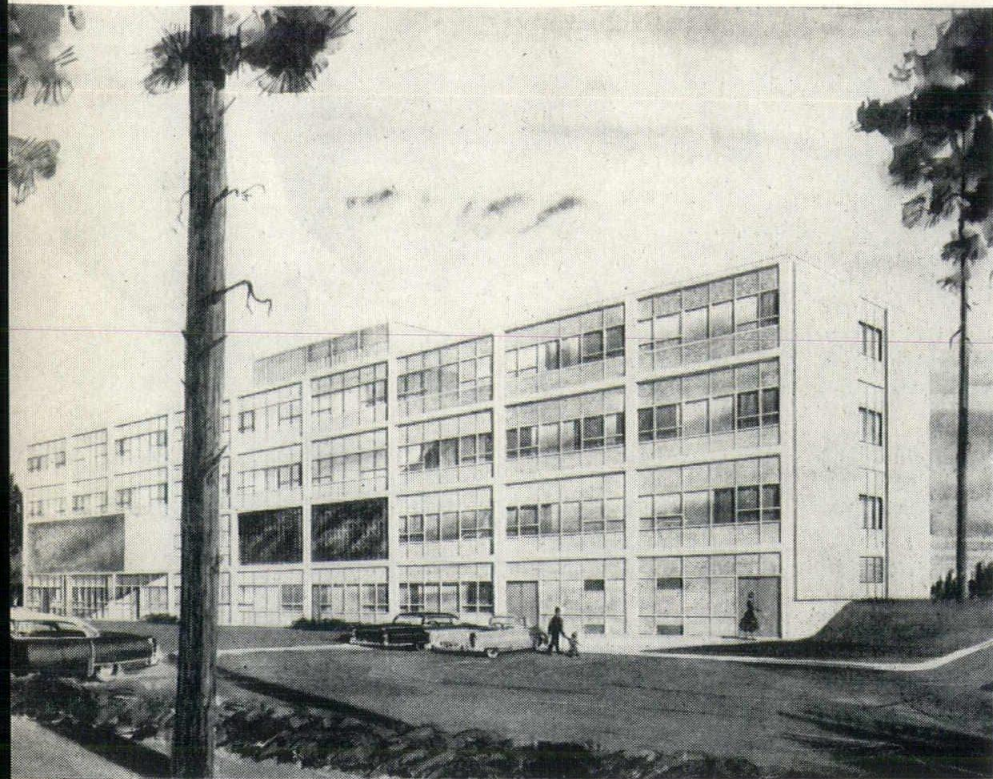
NEW ST. BARNABAS HOSPITAL BUILDING
Minneapolis, Minnesota



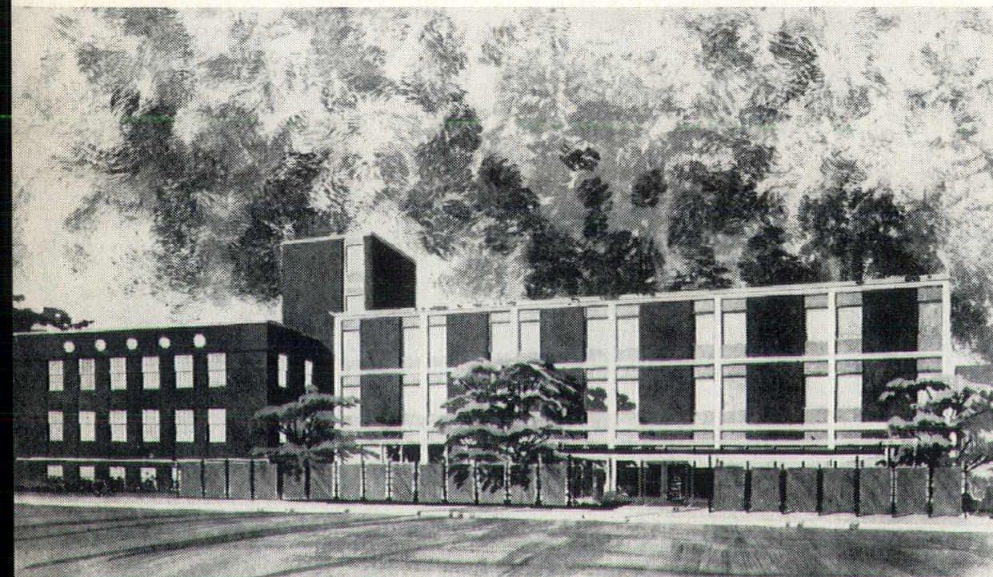
(detail)

ELY-BLOOMENSON MEMORIAL HOSPITAL
Ely, Minnesota

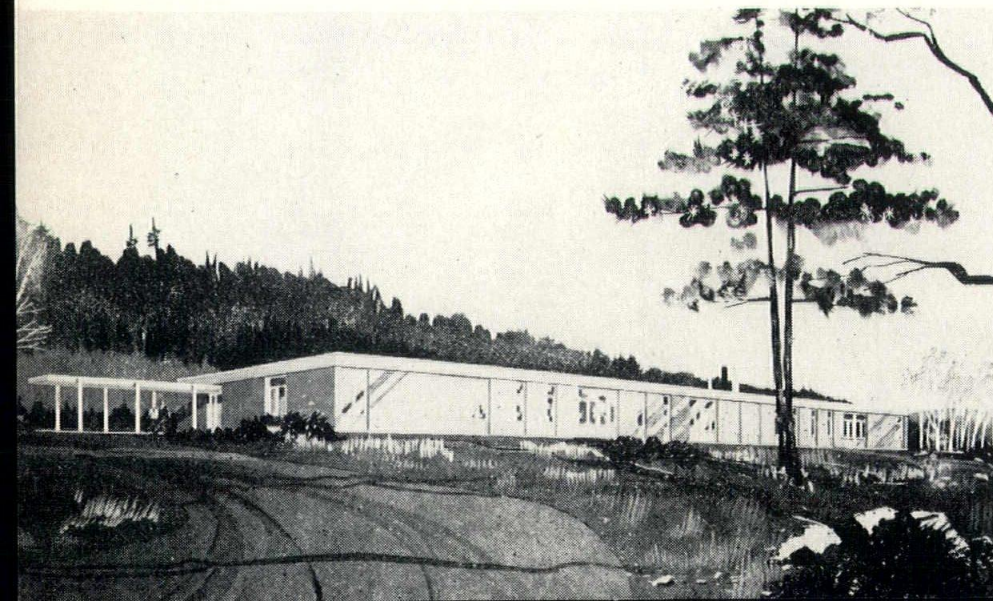




COMMUNITY-MEMORIAL HOSPITAL
Cloquet, Minnesota



MARSHFIELD CLINIC
Marshfield, Wisconsin



NORTH SHORE HOSPITAL
Grand Marais, Minnesota

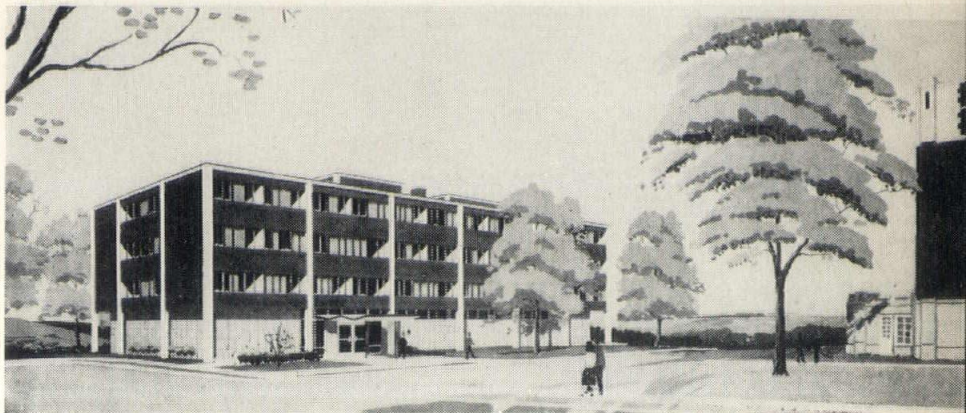
CARLETON COLLEGE ART CENTER
Northfield, Minnesota

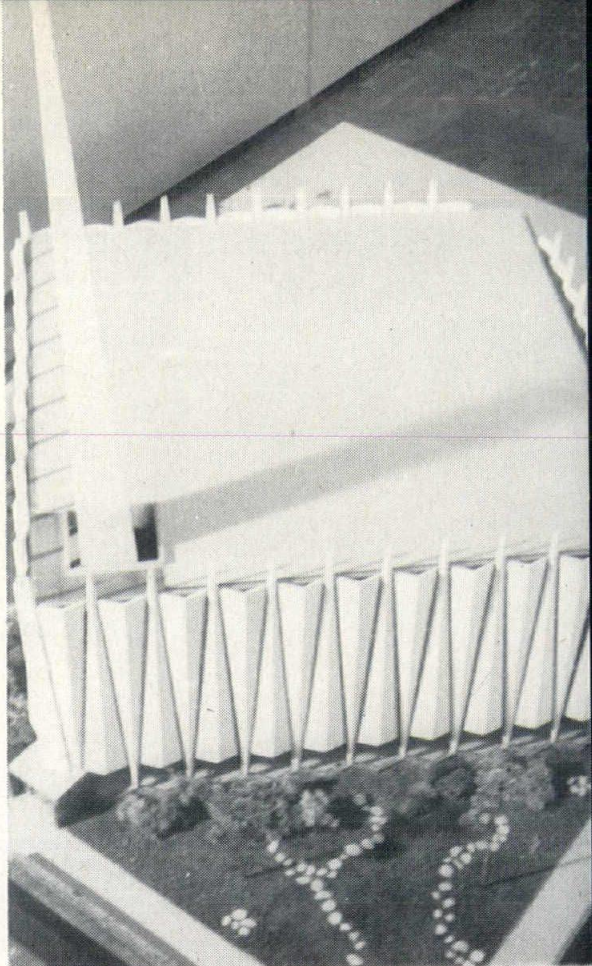
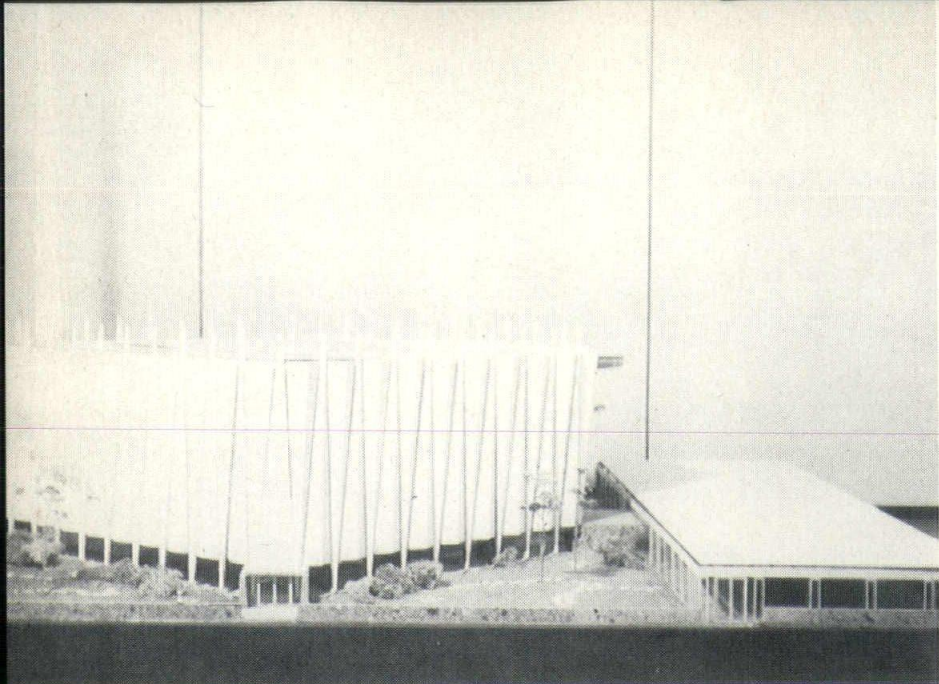


CARLETON COLLEGE LIBRARY
Northfield, Minnesota

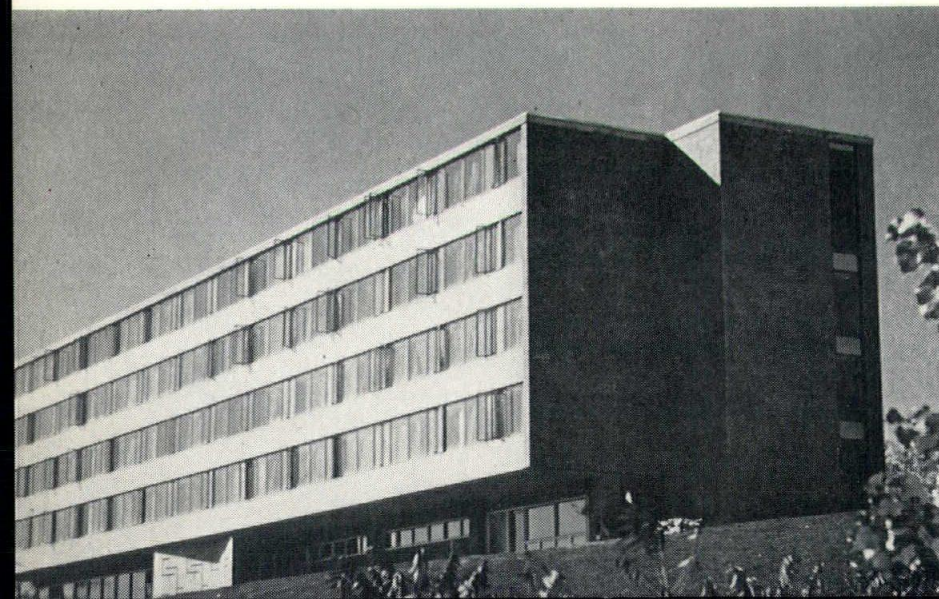
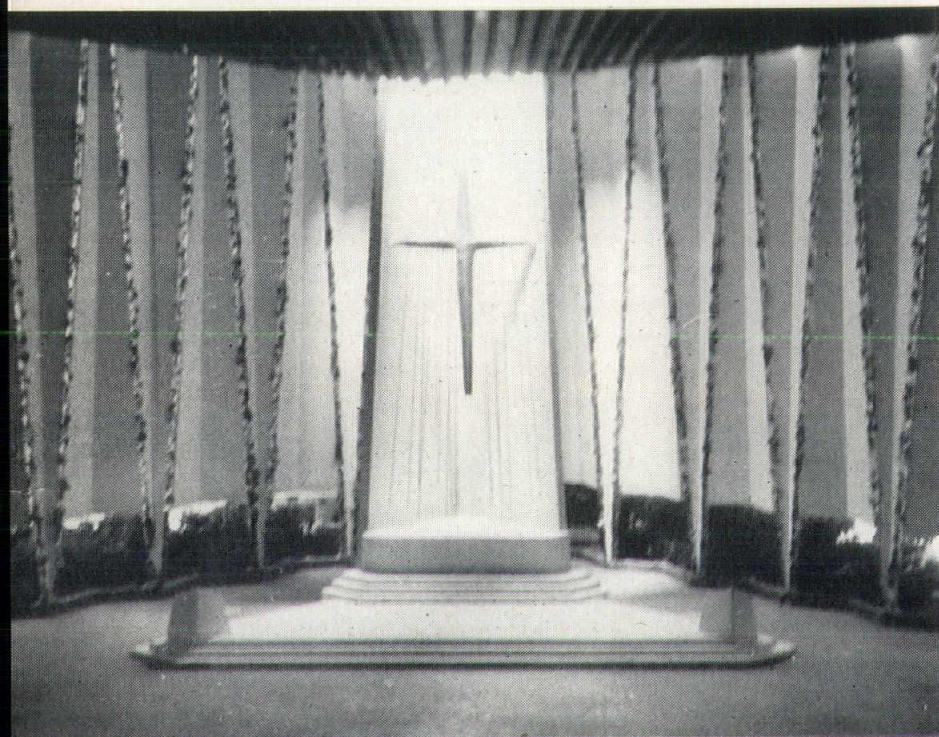


CARLETON COLLEGE MEN'S DORMITORY
Northfield, Minnesota





GUSTAVUS ADOLPHUS COLLEGE
CHAPEL (Study Model)—
St. Peter, Minnesota



GUSTAVUS ADOLPHUS COLLEGE
MEN'S DORMITORY—
St. Peter, Minnesota

RIGID LIGHTWEIGHT SCREED ADJUSTERS

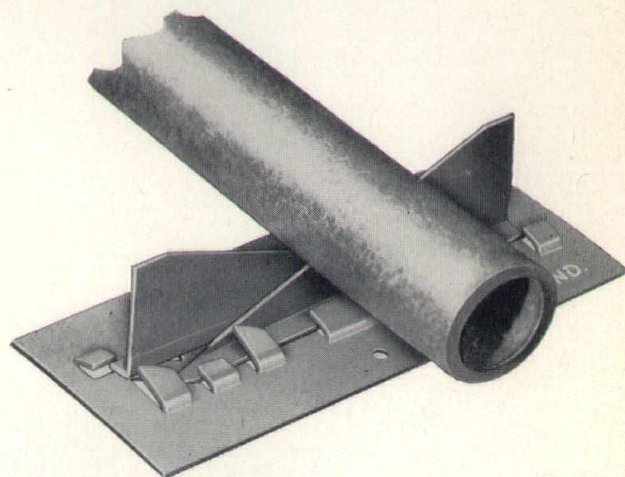
EASILY INSTALLED ON WOOD — CONCRETE — STEEL

ADJUSTABLE SCREED HOLDERS

RANGE FROM 1½" — 3"

DESIGNED FOR:

- CONCRETE FLOOR TOPPING
- LIGHTWEIGHT ROOF DECK TOPPING
- STRIKING-OFF CONCRETE SLABS TO A SPECIFIED THICKNESS



ADJUSTABLE SCREED CHAIRS

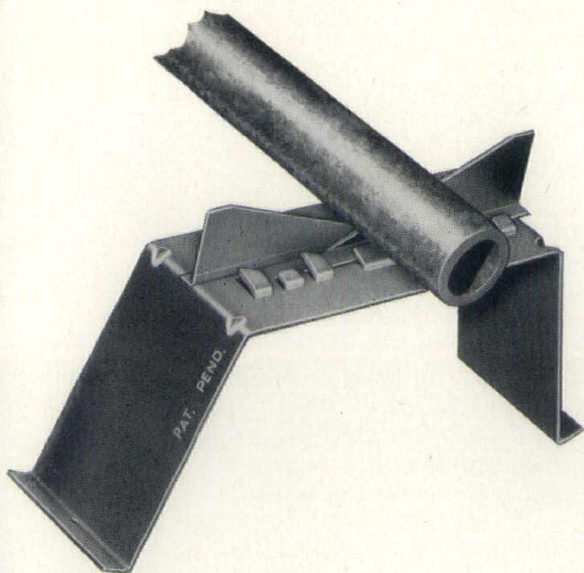
RANGE FROM 3" — 7"

DESIGNED FOR:

- STRIKING-OFF CONCRETE SLABS TO A SPECIFIED THICKNESS

ARCHITECTS
CONTRACTORS
ENGINEERS . . . WRITE

FOR SAMPLE SCREED HOLDERS
AND SCREED CHAIRS AND
ADDITIONAL INFORMATION DESIRED



N C L ENTERPRISES, INC.

605 PIONEER BUILDING

ST. PAUL 1, MINNESOTA

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YOUTH and AGE Honored at Minnesota Society of Architects Convention



Youth and age, the early enthusiasm and the experienced wisdom which are combined in the best of today's architectural work, were honored during the recent annual convention of the Minnesota Society of Architects as Brooks Cavin, well known younger St. Paul architect, was elected president of the group and Edwin H. Lundie, FAIA of St. Paul, was given a special citation for his 50 years in practice which have made him one of the most beloved of state designers.

Others elected at the Duluth convention to guide the 1957-58 destinies of the society are Clair G. Armstrong of Minneapolis, vice-president, Fred Traynor of St. Cloud, secretary, and E. W. Krafft of Minneapolis, treasurer. Victor C. Gilbertson of Minneapolis is immediate past president. Directors chosen are Robert Bennighof of St. Paul, Winston Close of Minneapolis, Norman K. Fugelso of Duluth, Robert Howe of St. Paul, Jerry Jyring of Hibbing and Otto M. Olsen of Duluth.

Sidney L. Stolte of Minneapolis and Mayor E. R. Lambert of Duluth also were honored by the convention for their contributions to the profession of architecture and the building industry.

St. Paul will be the site of the 1958 convention, details of which will be announced later, according to Jim Fenelon, executive director of the state society.

The convention, under the general chairmanship of Arthur C. Lucas, Jr., Duluth, had as its theme "Toward New Horizons," which follows the general thinking in this centennial year of AIA. It was strong in panel discussions and had an outstanding exhibit of building products, methods and equipment. The exhibits drew to Duluth the top companies of the nation, represented by their area distributors and representatives. Spotlighted events are presented on these and following pages.

THE SPECIAL AWARDS

The three special awards made during the convention went to Edwin H. Lundie of St. Paul, Sidney L. Stolte of Minneapolis and Mayor Eugene R. Lambert of Duluth. The awards said:

Edwin H. Lundie

"For fifty years an architect.

"For fifty years a sensitive designer inspired by the love of creating beauty.

"For fifty years a friend and sympathetic counsellor to countless clients whose gratitude continually deepens as they discover new delights in already familiar buildings. His work embodies the gentle thoughtfulness of the man.

"For fifty years a beloved colleague. By his example the future of the profession glows more brightly. May he show us the way for years to come."

Outgoing Pres. Vic Gilbertson congratulates newly elected Pres. Brooks Cavin in the first picture here. Second picture shows 1957-58 President Brooks Cavin with Jack Hustad, Jr., president of the Minnesota-Dakota Chapter of the Producers' Council. Last picture shows Otto Olsen, Ed Lundie and Bryant Hadley, regional director of AIA.

MSA's 1957-58 officers and board members are (l-r) Director N. K. Fugelso, Director Otto Olsen, both of Duluth, President Brooks Cavin, St. Paul, Secretary Fred V. Traynor, St. Cloud, Director Robert Howe, Director Robert Bennig-hof, both of St. Paul, and Treas-urer E. W. Krafft, Minneapolis. Missing at the time the picture was taken were Vice-president G. Clair Armstrong, Minneapolis, Di-rector E. A. Jyring, Hibbing, and Director Winston Close, Minne-apolis.



Sidney L. Stolte

"For service to the community to hasten a better to-morrow, giving freely of personal time and energy toward this noble aim, patient with the tedious working of democracy, impatient with incompetence and selfish interests, aggressively leading public action for public good. His reward—the grateful thanks of fellow citi-zens and the deep respect of his professional colleagues."

Eugene R. Lambert

"For expanding and unifying the building industry in this area through his leadership among the contrac-tors and sub-contractors; for promoting a better un-derstanding between architects and those in the build-ing industry; for spreading good will among the com-munities in this area and for his keen interest in all public matters and his service to the public we express our gratitude for his enthusiasm and leadership."

The presentation to Mr. Lundlie was patterned after "This Is Your Life" and we take the liberty here of printing the text of the "program." The entire presen-tation was with slides, whose nature is shown in the italicized introductory lines. Giving credit where credit belongs, we want to mention the appreciation was written by Herb Taylor and produced in words and pictures in collaboration with Art Lucas, Jr.

Kremlin

October 13, 1886, was a brisk but clear day in Mos-cow, Russia, and Czar Alexander III was enjoying his state visit to the former capital. The view of the Kremlin from the birdge over the Moskva River was especially fine.

Peterhof

On that day, October 13, 1886, Her Imperial High-

ness, the Czarina was 400 miles away. She was at the Peterhof, or summer palace, twenty miles from the city now called Leningrad.

St. Peter's—Rome

On that October day in 1886, a rainy day, at the Vatican in Rome, His Holiness Pope Leo XIII was at



Presentation of special awards at the convention resulted in these pictures—at top, Mrs. and Edwin Lundie just after the honor had been given to Mr. Lundie—center, Sidney L. and Mrs. Stolte look over the special presentation made to Mr. Stolte—bot-tom, Victor C. Gilbertson, Mayor Eugene Lambert and Brooks Cavin when the mayor's award was made.

work on the establishment of a Catholic mission to India.

Eiffel Tower

In Paris, on October 13, 1886, this structure existed only in the mind of a man named Alexander Gustave Eiffel, who was to build it three years later.

1886 Streetcars

And in a much smaller American community a man was born on October 13, 1886, who is present in this room tonight.

Horse Drawn Cabs

In that year of 1886, America had not yet acquired the automobile industry, universal suffrage or the island of Puerto Rico—but on that day of October 13 she acquired a citizen of the type that best exemplifies the qualities of stability, integrity and creativity which were to mold this nation into the world's leading republic.

Baby Lundie

He sat for his first photograph in Cedar Rapids, Iowa, the city of his birth. Photography was in its infancy, too, but the powder flash preserved forever this image of a handsome, clear-eyed youngster, who perhaps already had tasted the first delights of plastic creation—building castles in sand it might have been or forming a fortress of alphabet blocks on the parlor floor.

Lundie as a Small Boy

His parents, Samuel and Lenora, must have been proud of this fine picture of their sturdy son. They would be proud of him tonight. If they were with us, they would know as we know, that fate had not molded him to be a general or a senator, a millionaire or a captain of industry. But they could survey with us a lifetime of service without blemish, of dedication to the highest standards of professional endeavor. They would know that life had given him, and he had given life, a happy fulfillment of their fondest hopes on that day more than seventy years ago when he was christened—Edwin H. Lundie.

Names Out of the Past

We don't know just when Ed Lundie decided to become an architect but we're very glad he did. After high school he studied at the American Society of Beaux Arts and at the St. Paul School of Arts, so it's likely that his duties as a stock clerk for the firm of Farwell-Ozmun-Kirk and Co., hardware distributors, didn't give him the creative outlet he already knew he needed. Early associations in his chosen field included the late Cass Gilbert and the year 1907 found him sharpening pencils and removing ink from tracing cloth in the offices of Holyoke and Masqueray. When he left them in 1916 he was an accomplished and experienced draftsman.

St. Paul Air View

We're sure you recognize this city of today but imagine St. Paul as it was in 1917 for in that year two important events in Edwin Lundie's life occurred. Here, in our state capital, he began private practice, specializing for the greater part of a decade in religious architecture. The other event involved a church, too. On October 17, 1917, at a time when half the nations of the earth were in bloody turmoil, a quiet ceremony united Ed Lundie and a lovely and charming girl named

Grace Nash in holy matrimony. Grace Nash Lundie is also with us tonight . . .

Ed in a Canoe

. . . and we're very grateful to her for pictures like this one of young Ed Lundie enjoying his favorite hobby. Ed spent many summers canoeing on the St. Croix River, putting his canoe in the water in northern Wisconsin and paddling and camping his way 140 miles southward to Hudson, where the trip would end. This love of the outdoors was later reflected in some of his finest work, as those who have seen his summer home on the north shore of Lake Superior will agree.

Ed Lundie in Chair

Toward the end of his first decade of private practice, sitting in a favorite chair, Ed Lundie could survey his career with satisfaction for past accomplishments and confidence for the future. He had begun to specialize in residential architecture. Then, as now, he keenly anticipated each new commission, each time intent on excelling his past endeavors. As we all must on occasion, he could compromise with others, but never with himself, or with the high professional standards he had developed. These standards, and Edwin Lundie's fulfillment of them, were widely recognized. In 1937, twenty years after opening practice in St. Paul, he became a member of the city planning board of that city, serving with distinction to the present time.

Slade House

This is Slade House, Ed Lundie's first North Shore commission . . .

Slide #10

. . . Slade House—one of the architect's personal favorites—understandably so . . .

Slade, Closer

. . . Completed just prior to World War II, it is an outstanding example of creative imagination and thorough craftsmanship . . .

Slade, Detail

. . . All the basic materials came from the site, all the rock, all the lumber . . .

Slade, Different View

. . . The result: A happy and harmonious blending of God's location and man's creation.

Townsend House

And this is Townsend House, at Minnetonka, a work of the same period.

Townsend, Detail

For the residents the eye gave proof of its beauty, the name of the architect gave assurance that Townsend House was built to endure.

AIA Seal

The seal of the American Institute of Architects. It was in 1948 that a close friend in the profession informed Edwin Lundie that his name was being proposed for fellowship in the institute. Later in that year, at the national AIA convention, he received the coveted fellowship, the greatest single honor of his career, bestowed only on those who in the opinion of the institute have "notably contributed to the advancement of the profession of architecture in design or in the science of construction, or by literature or educational

The Ladies of the Convention



Some of the ladies who attended the convention are shown here . . . 1—Mesdames Fred Traynor, J. R. Magney, R. J. Hendershott, Louis Pinault, Norman Fugelso and C. L. Ammerman . . . 2—Jean Von Holtum, Mesdames Robert Howe, Gene Flynn and Robert Jackels . . . 3—Mesdames James Horan, Robert Howe,

G. E. Haverkamp and H. R. Thomas . . . 4—Mesdames Otto M. Olsen, C. H. Smith, T. J. Shefchik, Sr., Art Lucas, Jr., and H. E. Hanson . . . 5—Mesdames K. M. Fullerton, R. T. Jackels, James Coulter, and Bryant Hadley . . . 6—Mesdames David Morgenstern, H. S. Starin, A. H. Meinecke and Kenneth Backstrom.

service, or by service to the institute, or by public service."

Cabin in the Sky, Full View

The institute fellowship came nearly a decade ago. The years between have been as full and rich as any in Ed's life. The happiest hours perhaps are spent in this summer home, "Cabin in the Sky," on the North Shore. Its rival for the Lundie's affections is "Primrose Cottage," the Lundie residence at Mahtomedi, and, of course, there's the office of Edwin H. Lundie, Architect, in the Endicott-on-Fourth Building. But let's take a further look at "Cabin in the Sky."

Cabin with Flag

It was built about the time World War II began and I'm sure you can guess who designed it. But Ed Lundie did more than that. He worked right along with the men. He split most of the wood shakes for the roof himself . . .

Cabin, End Detail

. . . And he did all the wood carvings for the corner posts which you see to the left of this picture. "Cabin in the Sky" is a beautiful and typical Lundie creation.

JULY-AUGUST, 1957

Lundie and Grandson

Ed Lundie and his grandson Craig, son of the Lundie's only daughter, Ellen Louise, and her husband, Charles Thompson. It is to be hoped that young Craig will decide to follow in his grandfather's footsteps. Remember the name if you're looking for a bright young partner sometime around 1980.

Mr. and Mrs. Lundie

Mr. and Mrs. Edwin Lundie, looking forward to a fortieth anniversary in a few months, looking back on a rich full life and that brings us to this year of 1957, this 100th anniversary of the founding of the American Institute of Architects, this 70th year of Ed Lundie's life.

Baby Lundie

Back to the beginning? It would be fun but it isn't necessary. The *future* still holds a great deal in store for Ed Lundie, we're sure. In fact, something has been planned for this very evening . . .

Edwin H. Lundie, Fellow of the American Institute of Architects, will you rise please and walk to the speaker's platform . . . (the citation was then presented).

DULUTH, THE HARBOR

Because Duluth was the convention site this year, the following speech to the convention by Robert T. Smith, port director, was of primary interest; it is also of value as giving background for the future of this area which will be served by the deep water shipping to come through this Head of the Lakes city. Mr. Smith said:

"The primary objective in the construction of public ship terminals in Duluth's harbor is for the development of foreign trade between Minnesota and its trade area and the world at large. The secondary objective is to develop domestic trade with other lake port cities

as well as those of the Atlantic, Gulf and Pacific coasts. Both objectives will be made possible by the construction of the St. Lawrence Seaway.

"Industry residing in Minnesota and other states, comprising the hinterland or trade area of the Port of Duluth, are now, and have been for many years, engaged in foreign trade, using as a point of interchange between land transportation and water transportation the ports of the Atlantic and Gulf coasts. In recent years some have used the lake ports of Milwaukee and Chicago.

"A survey conducted by our port authority in 1956 disclosed that 352 manufacturers and processors in



Minnesota had a combined annual foreign trade tonnage in excess of 240,000 tons, which does not include grain and other commodities that move in bulk. The survey further disclosed that 80 manufacturers and processors in states comprising our hinterland had a combined annual foreign trade tonnage in excess of 110,000 tons.

"Our research on domestic waterborne package freight commerce through Duluth-Superior from 1913 to 1942, when the service was discontinued, revealed a seasonable average of 800,000 tons. The immediate traffic potentials of our port in terms of tons of 2,000 pounds of package freight only is: foreign, 350,000; domestic, 800,000; total: 1,150,000, assuming the lake package freight service can be resumed and there are excellent chances it will. In the initial development of our port we cannot discount this potential tonnage any more than we should discount the projected additional tonnage. They must be used in the evaluation of the immediate needs for port facilities.

"The value of a seaport to the economy of the area it serves has, in part, been proved by history. Another part is the experience of our coastal seaports, which, on the basis of 'What is worth having is worth fighting for,' opposed the seaway for many years.

"Most of us living here in the heartland of our country forget that the majority of great cities of the world are seaports, such as London, Rotterdam, Hamburg, Shanghai, Calcutta, Tokyo, Hong Kong, Montreal, New York, New Orleans, San Francisco and many

more too numerous to mention at this time. Their influence on the economy of the country in which they are located extends hundreds of miles beyond the harbor limits to a point where another seaport's influence is greater. Most of the world's large inland cities, including those in our country, are located on lakes, rivers or systems of barge canals, proving conclusively the value of water transportation, be it ocean or inland. The value of railroads, highways and airways in tying together water transportation systems is admitted and cannot in any way be minimized. The state of New York is fortunate in having all of these methods of transportation, which to a great degree accounts for its longstanding record of wealth and prosperity. The state of Minnesota has river, lake, railroad, highway and airway transportation. By 1959 it will have a seaport and then the only obstacle to improved wealth and prosperity will be negative thinking on the part of the uninformed and the actions of the selfish interest groups and individuals.

"It is negative thinking and the cunning of certain selfish interest groups that is retarding the development of ship terminal facilities in many lake port cities. This is giving solace to the Atlantic and Gulf coast ports, which bitterly opposed the seaway for many years. It has allayed their fears to the point where they now are spending hundreds of millions of dollars for port improvement and expansion. It is not difficult to understand why the great shipping interests and the port authorities of the east and gulf coasts have taken such a different view, when only two years ago they were in near panic over the building of the St. Lawrence Seaway through having conjured up visions of ruin and desolation at their ports.

"Why the sudden apathy on the part of port officials, who only several years ago successfully supported the passage of the Wiley-Dondero bill (seaway bill); who made convincing predictions of the seaway's good effect on the economy of their port areas; who engaged engineering firms to make surveys on their traffic potentials and on the strength of such surveys publicly announced multi-million dollar terminal facilities; who engaged port directors and set up large traffic and trade development organizations; who were ably supported by their local chambers of commerce, labor and industry? Has this all been a ruse to dupe our government and the Canadian government into building the seaway for the benefit of certain interests? Some may agree in the light of the sudden change in the attitude of Atlantic and Gulf coast port authorities, particularly the development of a new port in Louisiana by a \$50,000,000 state bond issue and South Carolina's appropriations of \$21,000,000 for the improvement of her ports. While I discount this theory, nevertheless, it is possible that some port officials, through inexperience, are innocently being influenced in their thinking.

"I firmly believe that the existing traffic potentials of the area that would find economy by shipping through Great Lakes' ports is greater than the seaway could efficiently handle. However, to develop traffic, modern and efficient ship terminals must first be constructed. Terminals that will provide quick dispatch to vessels with economy in port expenses, including stevedoring costs. One truly modern terminal can handle more

AT THE CONVENTION

Convention activities brought many architects and others together, including those shown here, identified in the numbered pictures from left to right . . . 1—Architects Ed Barber of Lake City, Reinhold Melander of Duluth, Glynn Shifflet of Minneapolis and Sid Stole of St. Paul . . . 2—Arthur C. Lucas, Jr., of Duluth, B. J. Hein of Albert Lea, Winston Close of Minneapolis and Otto Olsen of Duluth . . . 3—Panel members W. R. Berget, Minneapolis architect who was moderator, E. W. Brink of Prestressed Concrete, Inc., and Robert W. Randall of Portland Cement Association . . . 4—Art Luncas, Jr., E. L. Gardner, St. Paul engineer, Robert Smith, Duluth port director, Jim Coulter, Roger Noreen and Larry Hovik . . .

5—Jim Fenelon, MSA executive director, Fred Traynor and Al Nelson . . . 6—Architects Don Setter and Ted Krafft of Minneapolis, R. M. Wille of Inland Steel Products, Architects Richard Hemel and Brooks Cavin of St. Paul and John Magney of Minneapolis . . . 7—At the registration desk were Lois Jackels, Jean Von Holtum of the MSA office, A. J. Moorman, district manager of Wood Conversion Co., Convention Chairman Art Lucas, Jr., and Jack Spencer of Wood Conversion . . .

8—Rollin and Mrs. Child, Charles and Mrs. Magney, Mrs. and Don Setter . . . 9—T. J. Shefchik, Sr., Harold Hanson, Reinhold Melander, Otto M. Olsen, C. H. Smith, David Morgenstern and T. J. Shefchik, Jr., all Duluth architects . . . 10—L. E. Hovik, E. H. Lundie, Jack Bissell, Guy Chamberlain of Producers' Council, Washington, D. C., and Jack Hustad.

traffic than several outmoded facilities. This fact is being used by the port of New York in the modernization of the Brooklyn waterfront and other areas in their over-all modernization plans. We in Duluth have selected a site that will provide for expansion of ship berths as conditions warrant. When our site is fully developed, it will accommodate 11 large vessels in a modern compact terminal. The first stage of construction provides for three ships' berths. Additional berths will be provided when traffic is developed. We have faith in the seaway and are doing something to prove it."

METAL LATH PROCEDURES OUTLINED IN CONVENTION SPEECH

Many aspects of use of metal lath in today's construction were pointed out by Jack Fisher, technical director for the Metal Lath Manufacturers' Association, during a speech at the recent convention of the Minnesota Society of Architects.

"Metal lath, besides being an outstanding plaster base, is used in ceramic clay tile walls, exterior stucco and short-span concrete floors," Mr. Fisher said. "Because metal lath grips the plaster with thousands of mechanical keys and does not rely upon a chemical bond, it can be used with either gypsum, lime, or portland cement. The flat strands of steel around the openings in metal lath are at an angle to the face of the lath. When the first coat of plaster is applied, these sloped steel strands deflect the keys of plaster and fold them over the back of the lath. This locking action, repeated hundreds of times in each square foot, keeps plaster from spalling and falling when exposed to stresses, vibration or fire. The resilient strength of steel actually buried in the plaster reinforces it against the effect of thermal shock, impact, wood shrinkage, structural movements and other similar strains.

"Certain types of metal lath have particular advantages when used in assemblies under specific conditions. A few of the different types of metal lath and their prime uses, are as follows:

"Diamond mesh metal lath is all-purpose lath used for all kinds of walls, partitions, ceilings, furring or wherever plaster is used.

"Self-furring metal lath, the latest member of the metal lath family, is ideal for use over smooth, solid surfaces such as sheathing, concrete or masonry walls or beams and columns. It is often nailed over old plaster or wallboard as a base for a new coat of plaster. Self-furring metal lath is simply diamond mesh metal lath with evenly spaced indentations. These 'dimples' hold the body of the lath away from the smooth surfaces at a distance of about 1/4 inch to allow the mortar to form full keys and embed the lath.

"Stucco mesh is an expanded type of reinforcing designed specially for exterior stucco, either applied by hand or machine method.

"Flat rib metal lath is cut and expanded in a pattern that leaves continuous, evenly spaced strips of solid metal that stiffen the sheet. It is used for all types of plastering and its added rigidity permits wider spacing of supports.

ON OPPOSITE PAGE . . .

Here, there, everywhere went our cameraman, getting the pictures shown here . . . 1—The Dons, Haarstick of St. Paul and Setter of Minneapolis . . . 2—Duluthians Reinhold Melander and Norman Fugelso . . . 3—Art Lucas, Jr., and Winston Close, Duluth and Minneapolis . . . 4—Allan Meinecke, Larry Hovik, Ken Backstrom, Gordon Comb and George Townsend, Twin City architects . . . 5—Al Nelson, Minnesota state architect, and Mrs. Nelson . . .

6—Architect Everett Holes and Mrs. Holes . . . 7—Architect Ken Skold and Mrs. Skold . . . 8—Guy Chamberlin, Jack Fisher, Don Merriman and Art Lucas, Jr. . . . 9—Gerald Buetow, Ed Barber, W. A. Backstrom, T. J. Shefchik, Sr., and Louis Pinault . . . 10—Secretaries Bill Meyer, Roy Howard and Ray Thibodeau of the Minneapolis, Duluth and St. Paul builders' exchanges . . . 11—Bob Hendershott, Don Merriman, Jack Hustad and Ken Fullerton . . . 12—Architects Cec Tammen, Gene Hickey and T. J. Shefchick, Sr. . . 13—Earl Brink of Prestressed Concrete, Inc., Walter Spannaus, David Olin and Alvin Edelstein, Oliver Iron Mining Co.

"Both 3/8 inch rib metal lath and rod-ribbed metal lath are combinations of expanded lath and stiffening. When used as a plaster base their greater rigidity permits wider spacing between supports than with either diamond mesh or flat rib lath. They are also widely used as a combination form and reinforcement for concrete slabs over steel and concrete joists, and as a self-furring lath.

Three-fourths inch rib lath was designed primarily as a combination form and reinforcing for concrete floors and roofs. This heavy duty lath has ribs a full 3/4 inch deep. It is generally used where there are wide spacings between the joists or purlins.

"Sheet lath, in contrast to expanded types of metal lath, is formed by stamping full size sheets of steel into a pattern of perforations. It is made with and without ribs. Sheet lath is exceptionally rigid and is used as a plaster base for walls and ceilings, as a backing for ceramic clay tile and as centering for concrete slabs.

MACHINE OPERATIONS

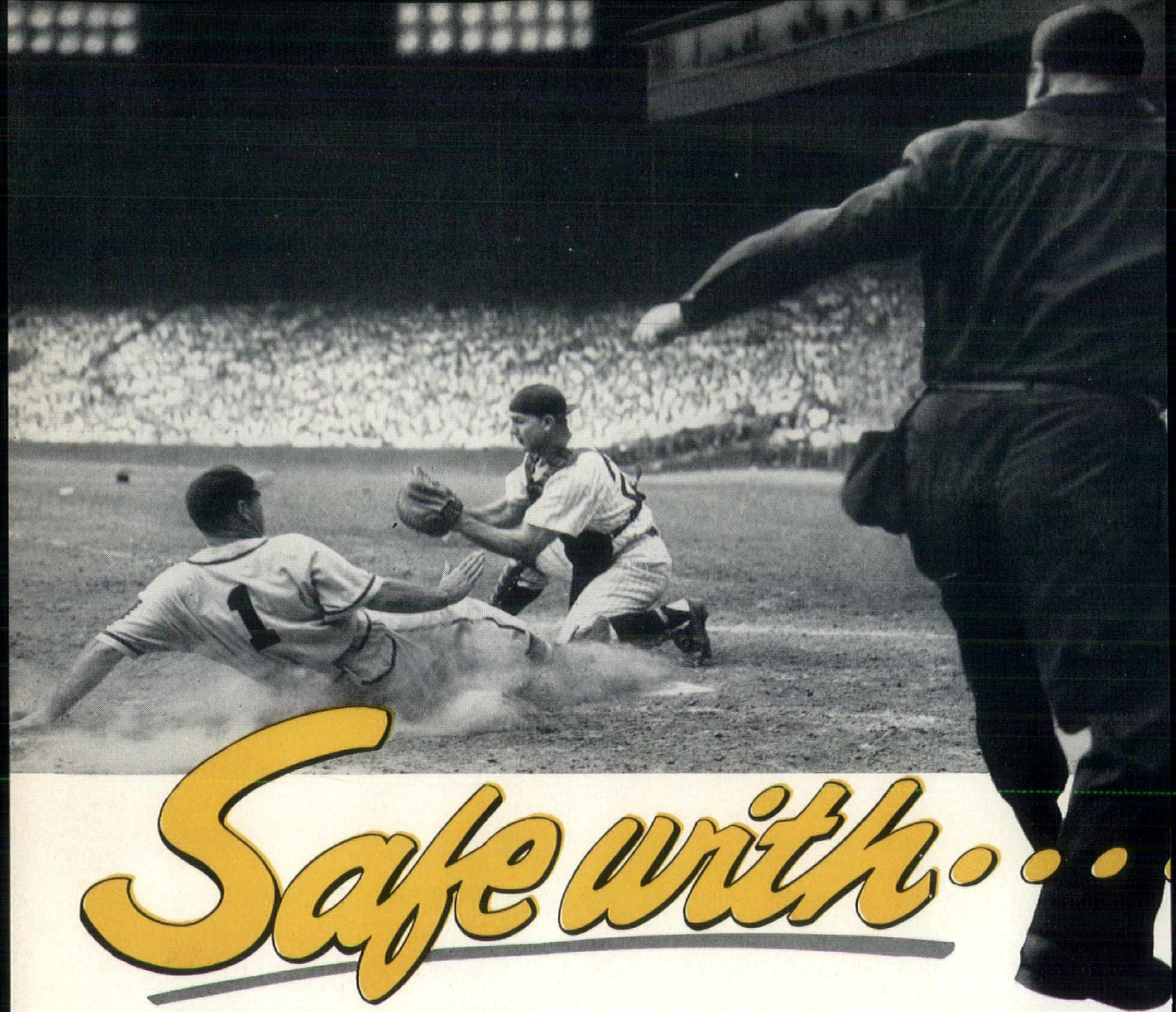
"During the past few years, tremendous strides have been made toward a mechanical application of plaster. As you well know, around the early part of the 20th century a cement plastering machine was developed to apply cement plaster. This is known as 'Gunite.' It is only recently that engineering ingenuity developed similar equipment for gypsum plaster. . . . When the plaster is blown on to the base, with air pressure, it results with a dense coating assuring a strong and durable plaster. This method allows the operators to apply many more yards of plaster per day. . . .

"The power trowel is another example of the machine age in the plastering industry. Very much like the cement finisher guiding his power trowel over freshly placed cement, the plasterer guides the power trowel over the freshly placed finish coat. The rotating blades of the power trowel, aided by a small calibrated stream of water, works the finish material into a very dense,

(Continued on Page 54)



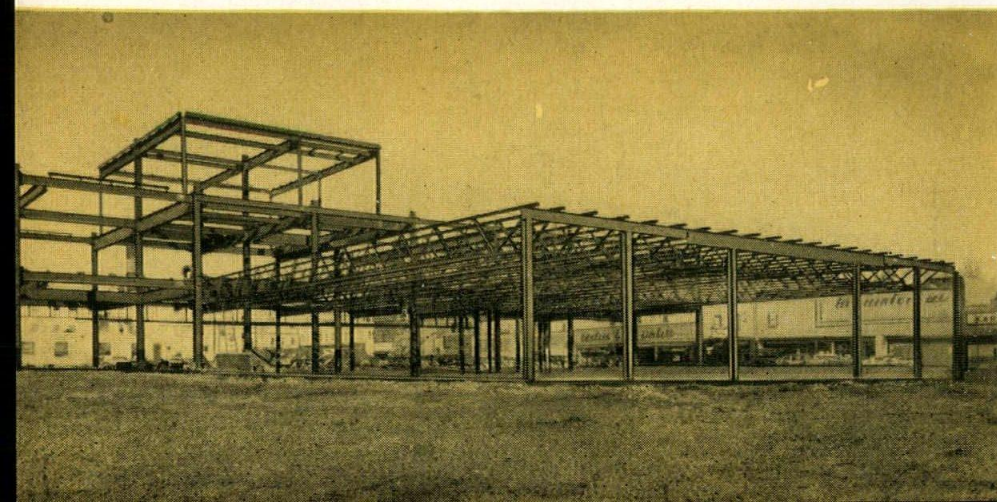
Look to the future—the Regional—and 1958 MSA Convention.



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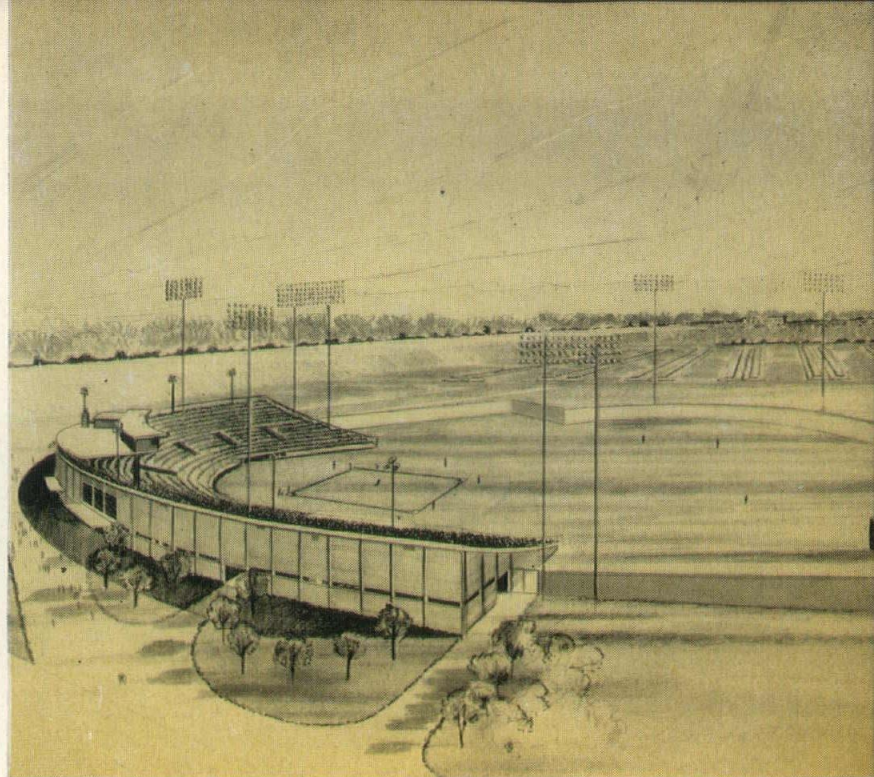
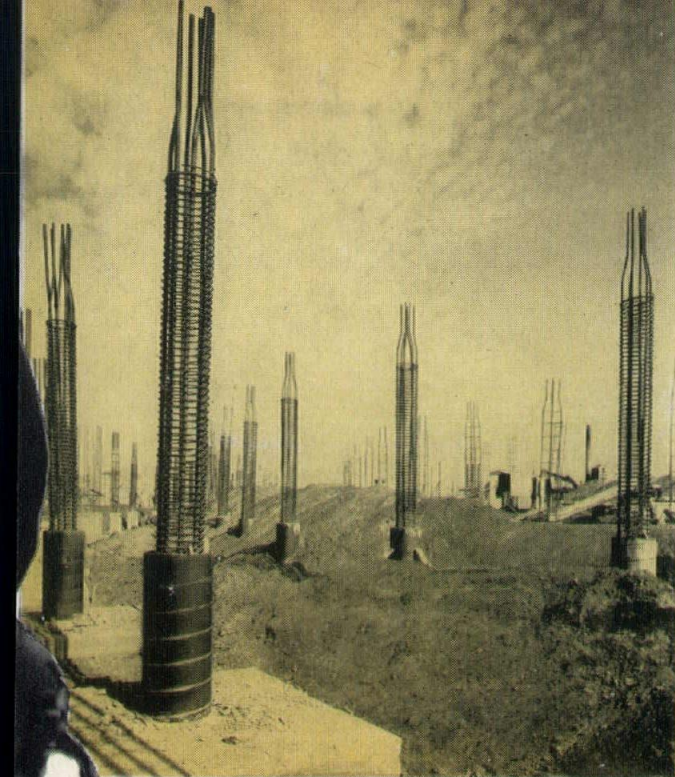
"SAFE AT HOME" will be the American Association St. Paul Saints where 233 tons of Pacal Reinforcing Steel and Wire Mesh went into the \$2,000,000 municipal stadium. With a seating capacity of 10,250, the ball park is scheduled for completion in time for the opening game April 25.

BANK REPLACES YESTERDAY'S BALL PARK



SAFE, TOO, will be money banked at Northwestern National Bank's Nicollet-Lake Branch. Located on a site familiar to Twin City baseball fans, this structure occupies what was Nicollet Park — former home of the Minneapolis Millers. Standing in its place today is 155 tons of Pacal Structural Steel, 39 tons of Joists and Steel Decking and 72½ tons of Reinforcing Steel and Wire Mesh.

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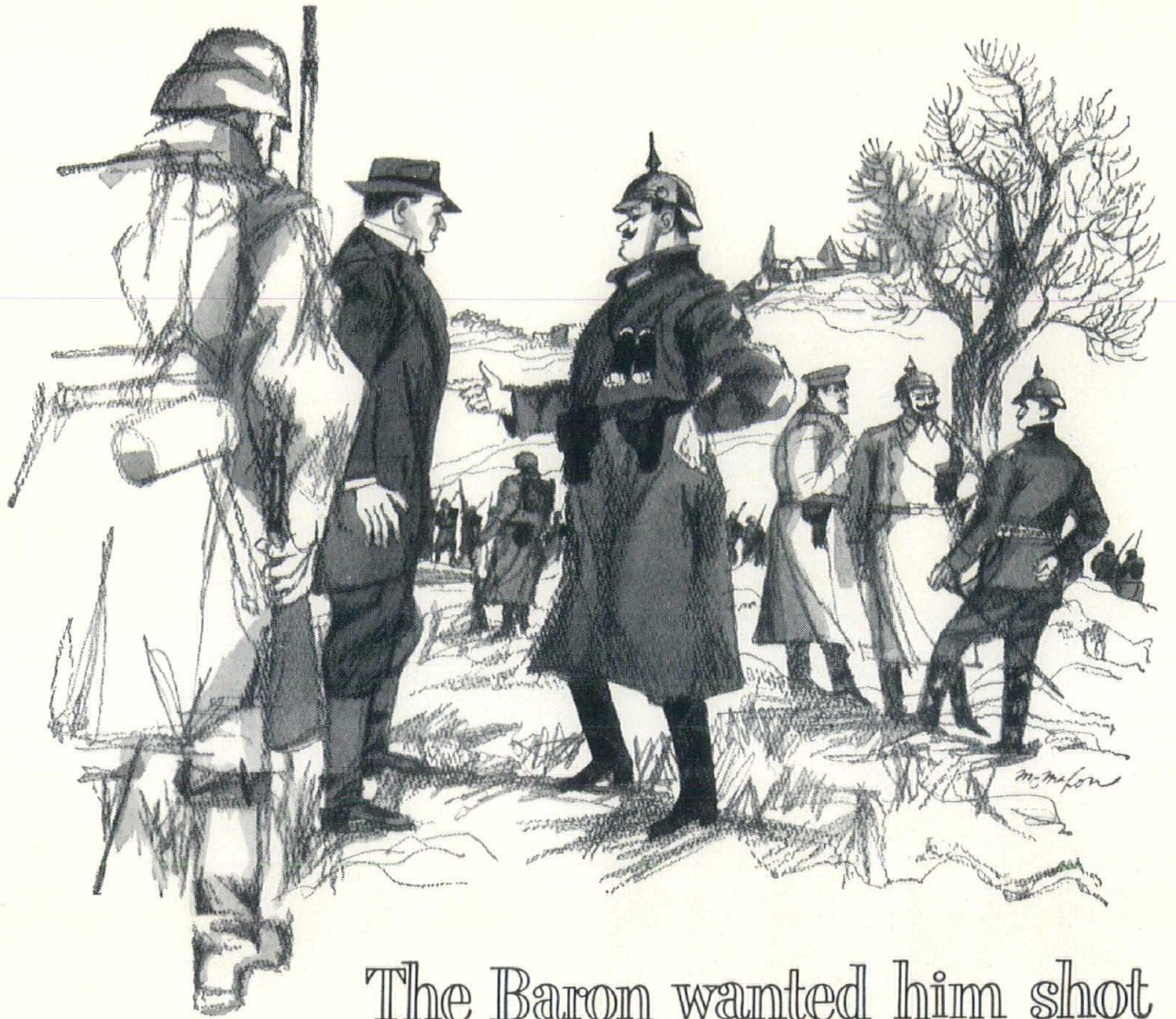
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But 24 hours later, Richard Harding Davis nonchalantly rode back to Brussels in a German general's limousine.

By that time, Davis had become an experienced hand at getting out of tight spots. It was, after all, his sixth war. And as early as his third, he had been officially commended for cool courage and offered a commission. His admirer: Colonel Theodore

Roosevelt of the Rough Riders.

Novelist, playwright, reporter, world-traveller, Richard Harding Davis was the idol of his generation. And his clear-headed adventurousness, his love of fair play, would have made him one today. For America's strength as a nation is built on just such personal qualities.

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Chapter, Club and other news . . .

THE CHAPTERS' OFFICERS AND DIRECTORS FOR 1957-58

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Directors to State Society:

Grover Dimond, Jr.
Robert Benninghof

JULY-AUGUST, 1957

RECENT NEW MEMBERS OF MINNESOTA SOCIETY ANNOUNCED

Recent new members admitted to the Minnesota Society of Architects have been announced from the society's headquarters and include the following:

Robert L. Ames, St. Paul—St. Paul Chapter
William E. Brodersen, Northfield—Minneapolis Chapter
Gilbert F. Hahn, St. Cloud—Minneapolis Chapter
William C. Hendrickson, Brainerd—St. Paul Chapter
Richard K. Lenci, Virginia—Duluth Chapter
David M. Morgenstern, Duluth—Duluth Chapter
Frank S. Moorman, Minneapolis—Minneapolis Chapter
Alfred J. Nelson, St. Paul—St. Paul Chapter
Ralph B. Shimer, Minneapolis—Minneapolis Chapter
Douglas H. Wasmuth, Minneapolis—Minneapolis Chapter
Edward F. Wirtz, Sr., New Ulm, Minneapolis Chapter

MSA MEMBERS CAN RESERVE SPACE AT MINNESOTA SCHOOL BOARDS CONVENTION

Members of the Minnesota Society of Architects planning to exhibit at the annual convention of the Minnesota School Board Association, to be held in the St. Paul auditorium, February 10-12, 1958, can reserve space through the MSA's office, according to James Fenelon, executive director.

A questionnaire covering potential exhibitors from among architects will go out soon to all members, Mr. Fenelon said. This will be returnable to his office and tentative plans call for booking space in a block for the architectural exhibits. Details can be obtained from the MSA office.

HAARSTICK, LUNDGREN WIN BETTER SCHOOL HONOR

Competing with some 150 architectural firms from throughout the United States and Canada, Haarstick, Lundgren & Associates of St. Paul received a special feature award in "School Executive" magazine's better school design competition. The winning design was that of the new Burnsville School near Savage, Minn., to cost \$1,040,000.

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- ✓ Washable—withstands endless washing
- ✓ Durable—resists chipping and scratching
- ✓ Attractive—multi-colored pattern gives a live affect with depth
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- ✓ Long Lived—far in excess of conventional finishes
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Northern Illinois Chapter to be Host for Regional Conference, September 25-27

The North Central States Regional Conference, AIA, will be held this year in Rockford, Ill., with the Northern Illinois Chapter as hosts, according to Don Patton, chairman of the conference committee. Activities are scheduled to begin Wednesday a.m., September 25, and continue through Friday noon, September 27.

The conference theme is "This Business of Architecture." As this implies, emphasis will be on the practical aspects of professional architectural practice rather than on technical subjects. Panel discussions and workshops being planned fall into four general areas—sales and presentation techniques, drafting room procedures, administrative practices, research and experiment methods.

A unique awards program covering these same four areas of practice has been conceived as an integral part of the conference program. Entries in this program were due prior to August 1.

"An informative and entertaining program has been planned, including a number of special ladies' activities," Mr. Patton said. "The Northern Illinois Chapter extends its most cordial invitation to wives. Reservations can be made by contacting Thomas A. Smith, 211 South Wyman Street, Rockford, Ill.

The program for the three-day conference follows:

WEDNESDAY, SEPTEMBER 25

- 8:00 a.m.—Registration.
- 12:00 noon—Welcome Luncheon.
- 1:45 p.m.—Panel on Business Operations.
- 3:30 p.m.—Seminar on Accounting for the Architect.
- 6:15 p.m.—Cocktails.
- 7:30 p.m.—"Hospitality" Host at Members' Homes (available to those who pre-register).

THURSDAY, SEPTEMBER 26

- 8:00 a.m.—Regional Officers' Invitational Breakfast.
- 8:30 a.m.—Panel Discussions.
- 9:30 a.m.—Seminar.
- 12:30 p.m.—Luncheon: Speaker, Bernard Tomson.
- 2:15 p.m.—Bus Tours.
- 6:30 p.m.—Cocktails.
- 7:45 p.m.—Banquet and 1857 Ball.

FRIDAY, SEPTEMBER 27

- 8:00 a.m.—Informal Breakfast.
- 8:30 a.m.—Workshop Seminars by Award Winners.
- 12:00 Noon—Luncheon.

JULY-AUGUST, 1957



Chairman Patton

CONFERENCE ACTIVITIES FEES

Registration

A.I.A. member.....	\$5.00
A.I.A. associate.....	5.00
Wife	no charge
Guest	5.00
Exhibitor	5.00
Student	1.00

Activities

Wednesday, September 25

Luncheon	3.00
Cocktails	no charge
"Hospitality Night".....	no charge—at homes of host members (open to those who pre-register)

Thursday, September 26

Luncheon	3.50
Cocktails	no charge
Banquet and 1857 Ball.....	6.50 per person

Friday, September 27

Breakfast	no charge
Luncheon	3.00

Ladies' Activities:

Wednesday, September 25

Luncheon and Legitimate Theater at Wagon Wheel Lodge.....	2.50
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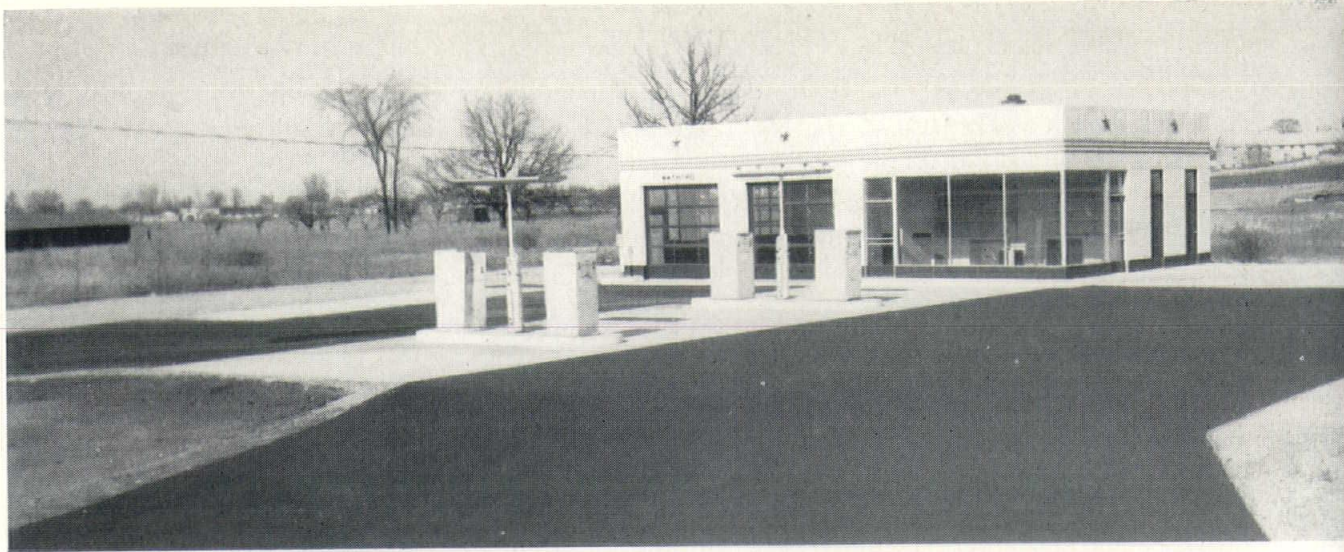
Thursday, September 26

Brunch and Special Entertainment	1.50
Tours:	1.00 per person
1. Industrial Buildings	
2. Medical and Institutional Buildings	
3. Educational Buildings	
4. Religious Buildings	

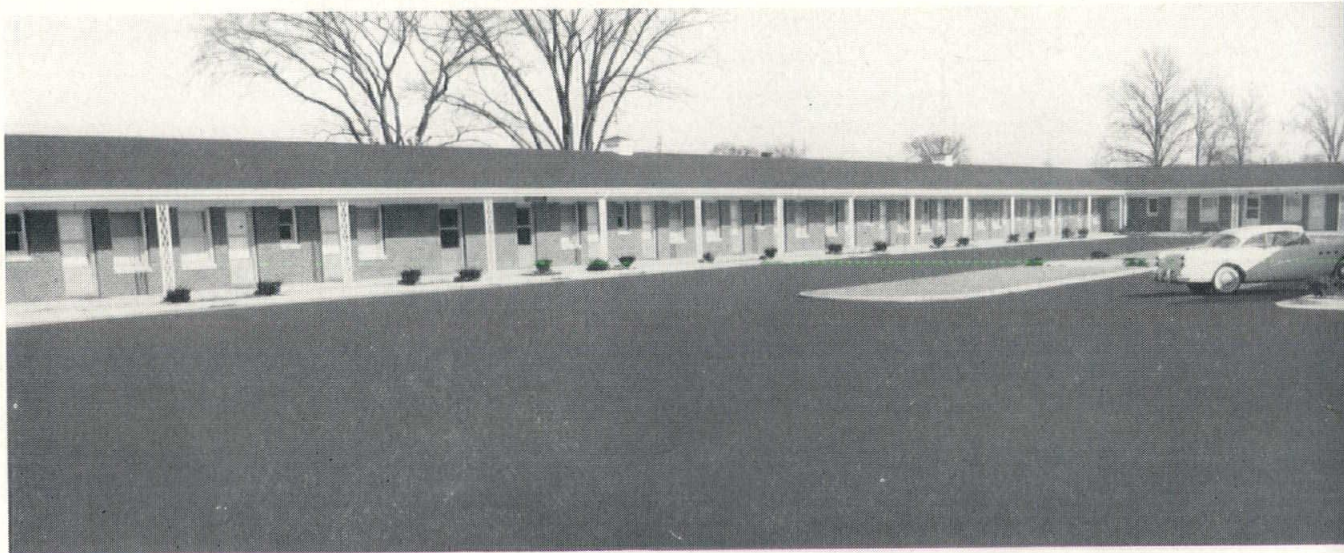
Registration blanks may be secured from:

Thomas A. Smith, A.I.A.
211 South Wyman St.
Rockford, Illinois

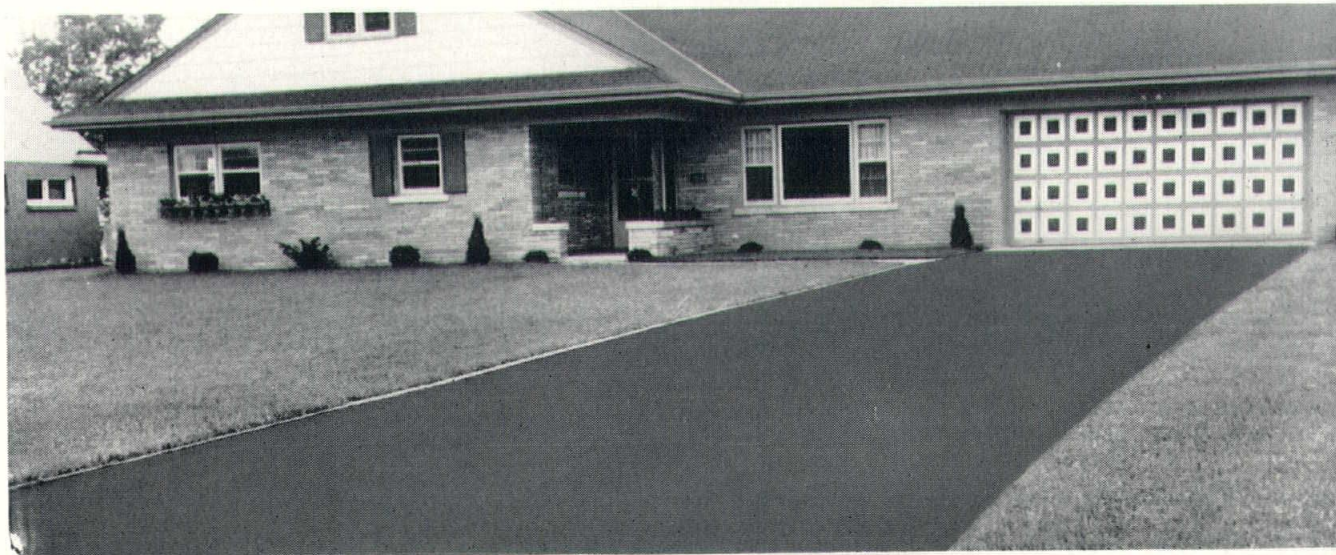
Regional Conference Headquarters will be at Faust Hotel, 630 East State Street, Rockford, Ill.

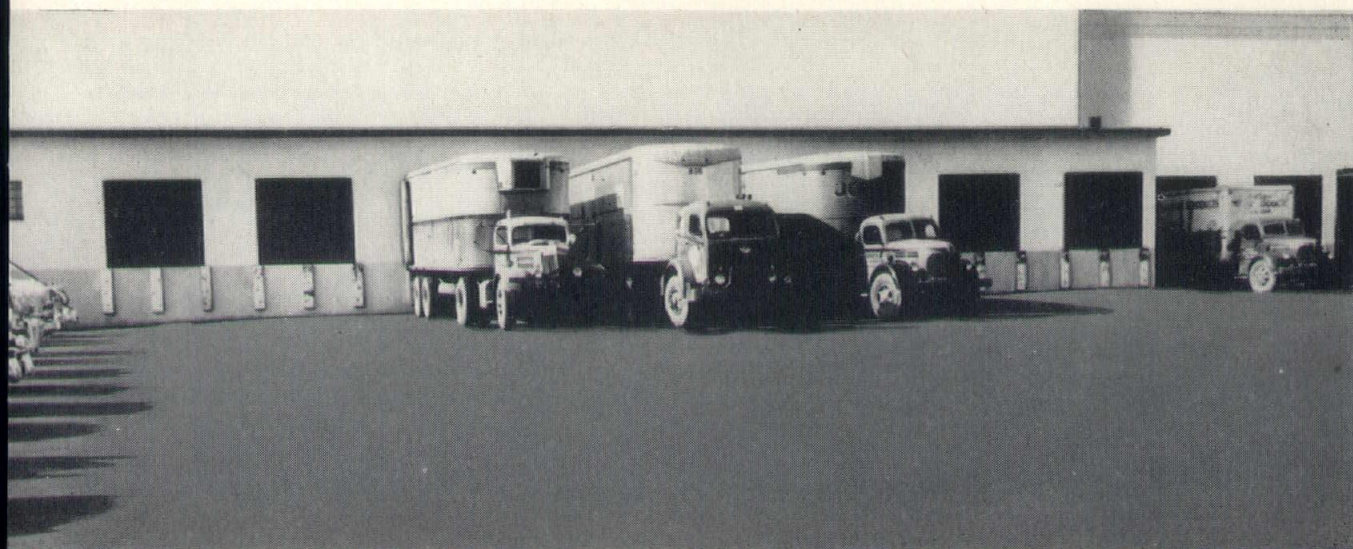


Whatever the area to be

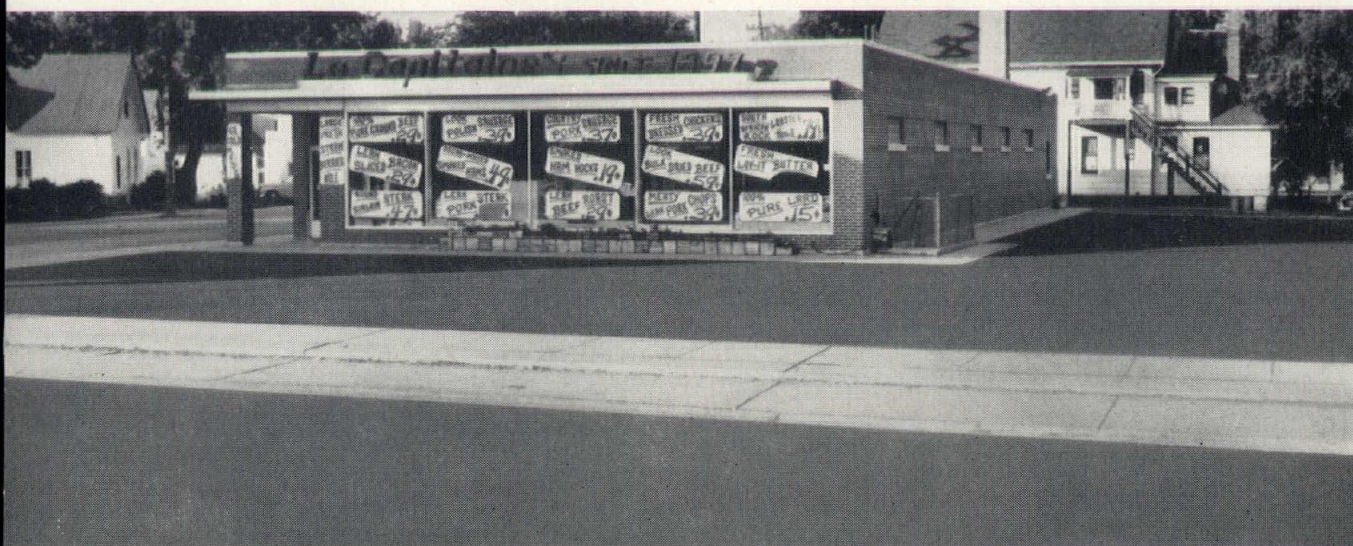


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Blacktop Specialty Co.
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Hennepin Blacktopping Co.
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St. Paul, Minnesota

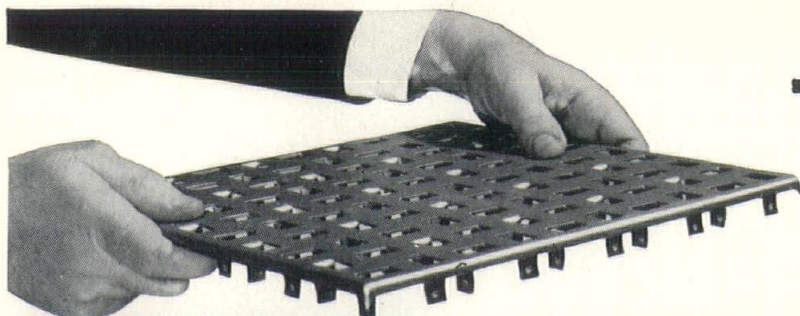
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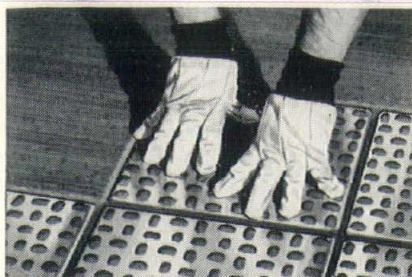
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JULY-AUGUST, 1957



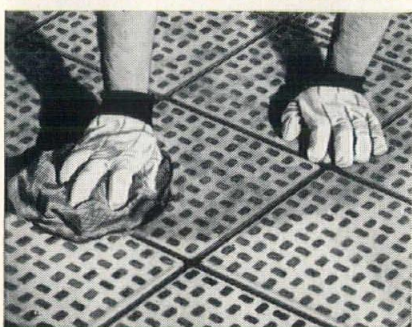


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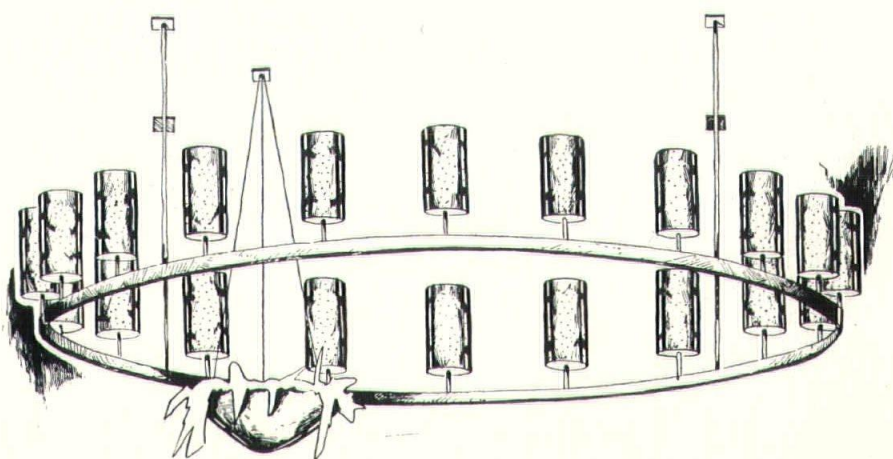
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KERR AND JOHNSON COMBINE OFFICES IN MINNEAPOLIS

Francis K. Kerr and Harley H. Johnson have combined their practices as Kerr-Johnson, Inc., architects, with offices temporarily at 1645 Hennepin Avenue, Minneapolis.

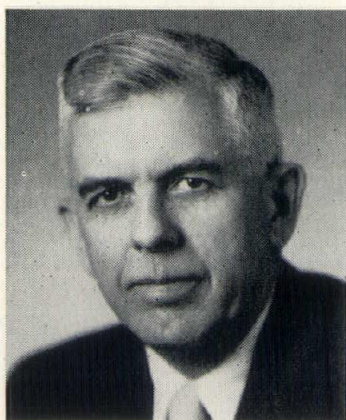
Mr. Kerr was a member of the firm of McClure and Kerr from 1946 to 1955, and was in independent practice for the past two years. He is a graduate of George Washington University, Washington, D. C., and was in the Washington office of FHA for nine years before coming to Minneapolis in 1946. His practice has included institutional, commercial and residential buildings, as well as the Bloomington Town Plan. He is active in the Minneapolis Chamber of Commerce, Minnesota Artists' Association and is an instructor at the Minnetonka Center of Arts.

Mr. Johnson has been in practice in Minneapolis for the past six years as Harley H. Johnson, architect. He organized his office after completion of the construction engineering at Mount Sinai Hospital. Mr. Johnson is a graduate of the University of Minnesota and of the Harvard Graduate School of Design. He was awarded a fellowship to study at Harvard under Walter Gropius.

Mr. Johnson's practice has included industrial, commercial and residential buildings. He won national recognition for a building for the Winona *Daily News* and for several residences. His practice has been primarily in Chicago and Minneapolis.

Active in civic affairs, he is a past member of the Golden Valley Park Board, a Hennepin County deputy sheriff and a member of Kiwanis, Zuhrah Temple, Ark Lodge, and the Chamber of Commerce. He is a Navy reserve officer and a director of Opportunity Work Shop, Richfield.

CONSULTING ENGINEERS ELECT WHITNAH 1957-58 PRESIDENT



Mr. Whitnah

The Minnesota Association of Consulting Engineers at its annual meeting named Scott Whitnah as president for the 1957-58 term. Other officers elected are:

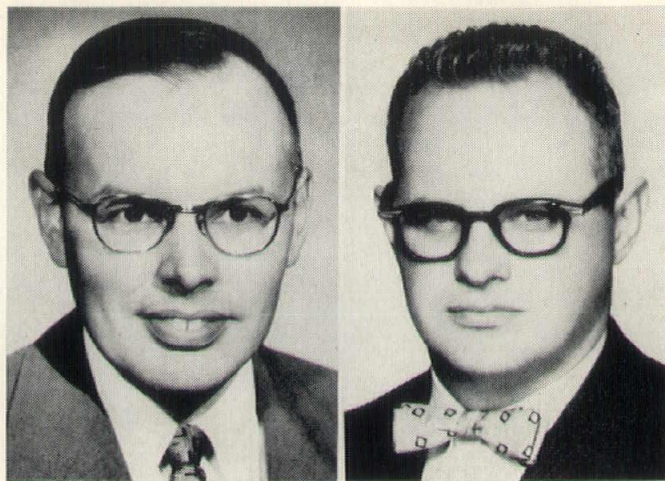
Vice-president—W. C. Bruch

Secretary—James A. Lindsey

Treasurer—Robert L. Michaud

In addition the following members were elected to

JULY-AUGUST, 1957



Messrs. Kerr (left) and Johnson

serve for two years on the executive board:

J. T. Baker

Norman K. Knafla

Dan S. Helmick

FREDERICKSON JOINS CLARK ENGINEERING

Ralph P. Frederickson has joined K. M. Clarke Engineering Co., to head up the municipal department of the Minneapolis consulting firm, according to Kenneth Clark, president.

Mr. Frederickson was formerly assistant city engineer in Faribault, Minn., city engineering in Robbinsdale, Minn., and more recently village engineer in Golden Valley, Minn. He has had a total of 10 years' experience in the municipal field. He is a graduate of the University of Minnesota and is a registered professional engineer in Minnesota, a member of the Minnesota Society of Professional Engineers, Minnesota City and Village Engineers Association and the American Public Works Association.

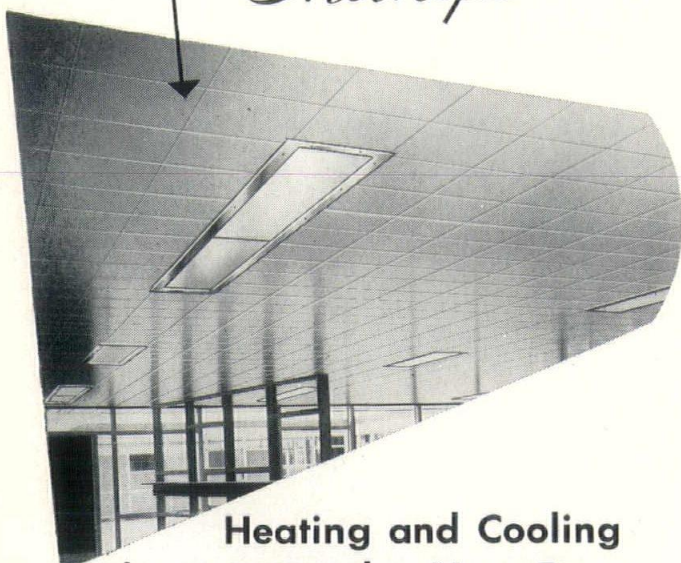
MINNESOTA LATHING & PLASTERING ASSOCIATION CREATES SCHOLARSHIP

A scholarship fund of \$500 has been presented to the Minnesota Society of Architects by the Minnesota Lathing & Plastering Association for use as a scholarship fund for students in architecture at the University of Minnesota, according to MSA's office. The first award under this setup will be made at the end of the scholastic year in 1958. The fund was arranged by John Johnston, the association's executive director.

MINNEAPOLIS REALTOR HEADS RETARDED CHILDREN'S DRIVE

A statewide, unified effort to meet the needs of retarded children has been launched by the Minnesota Association for Retarded Children under the direction of A. H. Beecher, Minneapolis realtor, and 23 of Minnesota's 87 counties already have started volunteer organizations and are beginning to make dramatic in-

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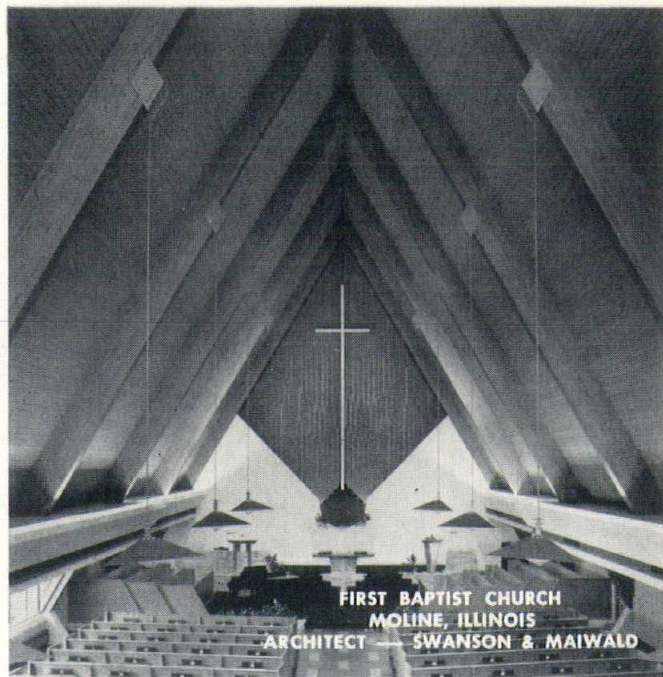
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roads in solving the vast problems of mental retardation.

"Our programs are co-ordinated at the local, state and national levels and we are looking forward to great progress in helping those who cannot help themselves," Mr. Beecher said.

"There are approximately 4,500,000 mentally retarded children across the nation, 3 per cent of our entire population. These retarded neighbors deserve public acceptance and personal dignity. They should have the opportunity for education and training to reach the maximum potential of their abilities as do all other American citizens. But these opportunities do not presently exist and it is the aim of our association to achieve this goal.

The Minnesota association will launch its statewide campaign in November. Headquarters for the state association have been opened at 2742 Hennepin Avenue, Minneapolis.

Shades of Eiffel—The Atomium!

Each big national/international exposition has had its keynote or theme in an unusual building which reflected the mechanical development of that particular time. Comes now, quite naturally, "The Atomium," which will be the key to the 1958 Brussels Exposition. The Belgians have sent through a goodly bit of material on the ideas and the structure, from which we'd like to lift:

"The 1958 universal exhibition of Brussels which has been conceived to have a lasting effect on a whole epoch, will present a brand new building: 'The Atomium.' This construction, in a symbolical form, will evoke the recent conquests of science in the fields of nuclear research and electronics, two new techniques with a future extraordinary influence on the lives of millions of people. 'The Atomium' will serve to initiate the visitors to the exhibition to the problems of the constitution of matter at the atomic level and to their practical uses for peaceful and humanitarian purposes.

"'The Atomium,' which will be erected by the Belgo-Luxemburg steel industries in cooperation with the 'Fabrimental' group of steel products manufacturers, will represent a crystalline structure, the constitutive element of metal on the atomic scale. The authors of the project have chosen a crystal of the centered cubic system, with nine atoms occupying the eight summits and the center of the cube.

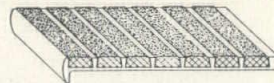
"The construction, which will present itself in the form of an immense cube planted on one of its angles, will be 140 meters high. The nine atoms will be represented by spheres of a diameter of 20 meters each, linked between each other by a skeleton of steel tubing. The three lower spheres will be supported by six metallic pylons arranged around a small circular pound, in the center of which the basic sphere will rest.

"With its impressive size, 'The Atomium' will represent an iron crystal enlarged 200 billion times. Visitors will be able to move around the nine spheres by a system of escalators of a special type which will be installed in the metallic tubing forming the skeleton of 'The Atomium.'

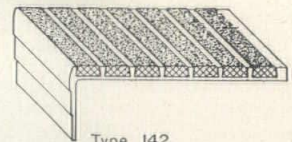
"It will house the 'International Palace of Science'."

JULY-AUGUST, 1957

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Type 141



Type 142

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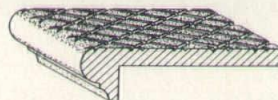


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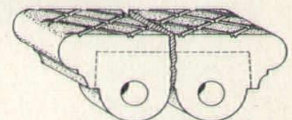


Type 46

ABRASIVE CAST TREADS



Type 103



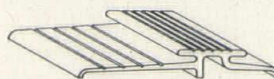
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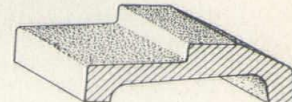


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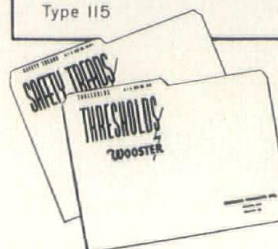
ABRASIVE CAST THRESHOLDS



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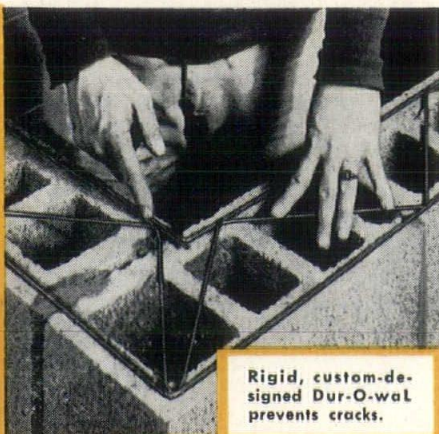
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Fillmore County Court House, Preston, Minn.
Edwin O. Eckert, architect

First Lutheran Church, Rush City, Minn.
Fasth, Hillstrom & Harty, architects

Macalester College Field House, St. Paul
Bergstedt & Hirsch, architects

Minnesota Mining & Mfg. Co., St. Paul
Ellerbe & Co., architects

Our Lady of Victory School, Minneapolis
Magulo & Quick, architects

St. Raphaels Convent, Minneapolis
E. A. Schaeffer & Assoc., architects

Sioux Valley Hospital, Sioux Falls, So. Dak.
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METAL LATH PROCEDURES

Continued from Page (40)

firm and level coat. This is another example where quality is maintained and cost reduced.

ACCESSORIES

"Metal plastering accessories are both functional and practical. Corner bead, concealed picture mold, base screed, metal casing bead and arch bead serve to protect the plaster from unanticipated damage and provide a finished edge of plaster. They also act as screeds for the plaster which assures full thickness and a true flat finished wall surface. Other metal plastering accessories are nonload-bearing hollow metal studs, cornerite, stripite and cold-rolled channels. . . .

"There is one very important issue to be answered and that is why should you use metal lath? I would like to outline a few of the advantages that you will be able to realize when you use metal lath.

"FIRE RESISTANCE—the fire resistive qualities of metal lath and plaster have been established through rigid fire tests in a *great variety* of assemblies. Approximately 90 test results and ratings are listed in our Technical Bulletin No. 8. In 1922 fire tests were made under the joint sponsorship of the Associated Metal Lath Manufacturers, now known as the Metal Lath Manufacturers Association, and the National Lumber Manufacturers Association. Dana Pierce, then vice-president of the Underwriters' Laboratories, said this about the tests in an article running in the *New York Times*: 'This discovery of the fire-resistive properties in an ordinary priced partition marks an epic in the science of construction. It is a new design contribution to the art of building that has wider possibilities than we may foresee today. This material has a higher time rating than we or anyone familiar with building materials had expected. The whole experiment has proved that there is an unexpected good resistance to fire in a type of partition which has not been generally considered fireproof, and is now recognized as more nearly equivalent to fireproof construction than any other building material.' Structures of every type and size can have built-in fire safety to withstand effectively the variety of destructive forces encountered under fire conditions, simply through the use of metal lath and plaster. This type of separation between rooms, along stairways, in corridors and in other exits not only provides a superior barrier to the spread of fire, smoke, and gases but also maintains a safe means of egress for occupants long after a fire originates.

"CRACK RESISTANCE—the tensile strength of metal lath resists the tendency of the plaster to crack when the structure behind it moves or vibrates. Crack resistivity is inherent in metal lath construction since the metal lath forms a continuous two-way reinforcement throughout the plaster, thus becoming an integral part of the plaster slab and providing elasticity sufficient to conform to normal movements of the building.

"IMPACT RESISTANCE—impact resistance, another feature of metal lath and plaster construction, is primarily due to the reinforcement of the plaster provided by the tough strands of steel.

"RIGIDITY—the rigidity of metal lath construction

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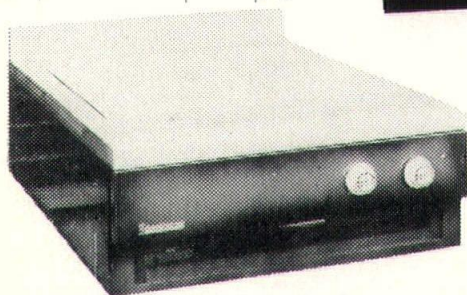
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has been proved time and again in areas where such construction has been subjected to earthquakes.

"ADAPTABILITY—metal lath is the most adaptable and versatile of all plaster bases. It cuts easily for fitting; bends readily without breaking and forms tight, strong angles; is sufficiently stiff to resist the trowel over the spans recommended for its use; and can be cut, ly complex designs. The adaptability of metal lath facilitates installation of flush and indirect lighting fixtures and the increasingly popular radiant panel heating; the construction of curved walls and ceiling surfaces; and the enclosures of heating, ventilating and shaped or bent to conform to the graceful and frequent-plumbing equipment.

"SOUND CONTROL—metal lath and acoustical plaster construction is of great importance from the standpoint of sound control. . . . Metal lath and plaster construction is resistant to the transmission of sound from one room to another. Double partitions of metal lath and plaster provide maximum sound insulation.

"SANITATION—metal lath and plaster construction is not subject to destruction by termites, rats or rodents of any type nor does it provide a surface lodging place for germs or dust.

"LIGHTNESS OF WEIGHT—lightness of weight, comparatively, is characteristic of both a solid and hollow type metal lath partition. It is an extremely important factor in the terms of the load which the building frame must support.

"THICKNESS OF PLASTER—when metal lath is used as a plaster base, the full thickness of plaster is applied. In the case of other types of plaster bases such as solid surfaces, it is possible to "skim" the job with a plaster thickness far below the minimum requirements.

JULY-AUGUST, 1957

Exhibit Scenes

Among the exhibits our cameraman found the persons shown here . . . 1—W. E. Ellingson, Duluth architect, hears a ventilator story from Dick Heltne of Heltne Ventilating Co. . . . 2—R. B. Shimer, Minneapolis architect, and John Anderson, director of the Construction Specifications Institute . . . 3—Brooks Cavin, new MSA president, with Wally Neal and Niel Sorenson of W. E. Neal Slate Co. . . . 4—Douglas Dunsheath of Insulation Sales with Norman Fugelso, Duluth architect . . . 5—Walter Kowalski of Vari-Tone Paint Products, Cec Tamman, Minneapolis architect, and Jim Riley of Vari-Tone . . . 6—C. I. James of Mosaic Tile Co., and Gene Hickey, Minneapolis architect.

Because of the difficulty that could be encountered in the application of plaster over metal lath, it is less costly, labor-wise, to apply the required $\frac{5}{8}$ " thickness of plaster over the metal lath than it would be to attempt to "skim" the plaster. Therefore, whenever metal lath is used, it is more than likely that it is covered with a sufficient thickness of plaster.

"ECONOMY—metal lath and plaster is less expensive in long-range cost when you evaluate lower insurance premiums based on greater fire safety, freedom from plaster cracking and costly repairs, space saving characteristics which provide additional usable space, versatility permitting desired variations yet maintaining low construction costs, greater durability and long life.

JOURNEYMEN

"In the past there have been some isolated instances where there were not enough journeymen for certain

the hustad company

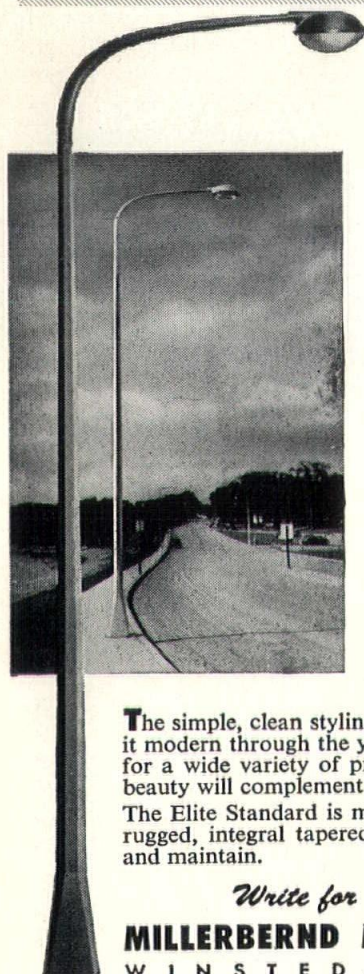
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jobs and in certain cases it was necessary to obtain labor from other communities in order to meet construction schedules. This undesirable condition has been recognized by your local labor groups, material dealers and manufacturers and I am pleased to advise you that corrective measures have been formulated and are now in progress. . . .

"I would like to relate to you the significance of building codes relative to fire protection. Basically, the objectives of building code regulations governing fire protection are, in order of importance, as follows:

"1.—To provide for the *safety of occupants* of buildings.

"2.—To provide for the *safety of firemen* fighting fire.

"3.—To provide for the *safety of adjoining property* and to prevent the spread of fire.

"4.—To provide for the *preservation of the property* itself.

"The need for proper fire regulation is exceptionally well described by the AIA Committee on Human Safety, which said: "Thousands of lives are sacrificed annually through fire and, since most deaths occur in buildings, it is time that we architects took stock to see what we can do in designs of buildings to save lives. Fire-loss figures are staggering . . . the National Fire Protection Association placed 1955 fire record in United States at 12,100 deaths with property loss of \$1,016,915,000.00. Building fire-loss is placed at \$876,200,000.00. The number of fires in buildings is placed at roughly 800,000. Architects, as key figures in building design, have tremendous responsibility.

"As your committee has studied fire hazards it has become more and more evident that architects have far

More Convention Pictures →

Keen interest was shown in the many exhibits of building products and equipment. Shown here are . . . 1—H. R. Thomas and Rollin Child, U. S. Ceramic Tile, and John Anderson, Minneapolis architect . . . 2—Minneapolis Architects Glynn Shifflet and Bill Johnson with Curtis Johnson, Pella Products . . . 3—Architect Sid Stolte, St. Paul, and Jack Bissell, Kesko Products . . . 4—Mike Arrigoni of Arrigoni Bros., and Robert Jackels, St. Paul architect . . . 5—John Magney, Minneapolis architect, and M. O. Johnson, Anderson Corporation . . . 6—Milt Jewell, Molin Concrete Products, Architects Norman Springstead and Earl Juntunen . . . 7—Architect Gene Flynn, Kenneth Schaber, Mastic Tile Corp., Wally Uglem, Forman Ford Co., Architects Bob Howe and Otto Olsen and Don Schwartz, Forman Ford . . . 8—St. Paul architect Richard Hamel and Don Johnson, Theo. Johnson Carpets . . . 9—Allan Loux, Minnesota Perlite Corp., and Architect P. M. Olson, Duluth . . . 10—Architect Brooks Cavin and Bob Spath, Kawneer Co. . . . 11—Glenn Whitman, Burns & Russell, Donald Merriman, assistant attorney general for the state registration board, Reinhold Melander, Duluth architect, and Bill Brull, Zenith Concrete Products . . .

12—Fred Mosse, Minneapolis architect, and E. E. Doran, American Mat Corp . . . 13—Duluth architect C. H. Smith and John Reed, General Detroit Corp. . . . 14—C. Stratemeyer, Dupont Co., Don Haarstick and Bob Jackels, St. Paul architects . . . 15—H. Canfield, Universal Rundle Corp., and Ken Backstrom, Minneapolis architect . . .



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greater responsibility than we had heretofore believed. The feeling has been that if we meet codes, our responsibility ends. Fire officers are gratified that architects are becoming interested in fire safety. Some have said we were interested only in how cheaply we could construct a building for our client within the code. Others have complimented architects highly for work being done toward safer buildings. Codes are enacted to save life and property but, as a rule, they are minimum requirements and in the fast tempo of the present day great difficulty is encountered in keeping codes in step with progress. There is also a tendency to get around codes.

"Architects must think beyond codes and constantly keep in mind that their buildings are to house human beings. They have the responsibility to make them as safe as possible for their fellow men."

"We can all co-operate toward safeguarding the structures that are being designed and the inhabitants that occupy them by incorporating fire-resistive assemblies in buildings that are in adequate balance with the occupancy and hazard involved. Also, participation on committees responsible for reviewing and preparing building codes should not be overlooked. Recently the temporary state building code commission of Minnesota recommended in its report the establishment of a state building code commission to determine a basic construction code for Minnesota. This recommendation, if followed, would provide an excellent opportunity for the Minnesota Chapter of the AIA to participate in the preparation of such a building code intended to protect the lives and economy of the people in the State of Minnesota. . . ."

The Exhibits Attracted Many →

More of those who visited the exhibits . . . 1—Jim Coulter, Keelor Steel, Architect Gene Flynn and Bob Anderson, Granco Steel Products . . . 2—Milt Jewell, Molin Concrete Products, Architect Dick Hamel and Cal Westphal, Molin . . . 3—W. C. Potts and Allan Loux, Minnesota Perlite, Architect Cec Tammen and Vernon Anderson, Minnesota Perlite . . . 4—Architect George Townsend, Carl Freij, Midwest Steel Co., and Architect Gordon Comb . . . 5—Architect Gene Flynn and Mrs. Flynn . . .

6—Ted Hidding and Vic Gilbertson . . . 7—Six Benson, U. S. Plywood, Kerm Olson and Ed Meyer, architects . . . 8—John Whalen, StranSteel Co., Duluth architect Harold Hanson and Art Goranson, Arrowhead Steel . . . 9—Reno Toffoli, Northwest Terrazzo Association, and Minneapolis architect John Magney . . . 10—Gordon Moody, A & C Sales Co., and Mel Hurlbert, Duluth architect . . .

11—J. P. Kelley, B. L. Smith, A. J. Moorman, district manager, W. A. MacDonald and W. H. Rezanka, Jr., all of Wood Conversion Co. . . . 12—Ralph Alexander, Cold Springs Granite, and Don Setter, Minneapolis architect . . . 13—Cluit Fladland, Western Mineral Products, Jerry Mercel and Earl Juntunen, St. Cloud and Duluth architects . . . 14—A. L. Prezenza, Roddis Plywood, Louis Pinault, St. Cloud architect, and Fred Mosse, Minneapolis architect.



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On Opposite Page

Getting the lowdown on materials and methods were . . . 1—Bob Faye, W. F. Sharpe Co., with Architects Al Nelson and Fred Traynor . . . 2—George J. Magulo, St. Louis architect, Bill Johnson, Mrs. Johnson and Jack Bissell, Bartley Sales Co. . . 3—Bill Krueger, Jack Homme, Dale Blomsness (Haldeman-Homme) Chuck Magney and Jim Horan, Architects.

4—Niel Sorenson, Wally Neal, W. E. Neal Slate Co., Louis Pinault and C. H. Smith, architects . . . 5—Charles Magney and Jim Horan, architects, with Ted Hidding, Twin City Tile & Marble . . . 6—Lou Arrigoni, Arrigoni Bros., and W. S. Steenbock, Universal Atlas Cement . . . 7—Charles Schneide, Twin City Tile & Marble, and Architect Cec Tammen . . . 8—Mike Arrigoni, Ed Grazzini, Al Arrigoni, Nino Jackia, field director, National Terrazzo & Mosaic Association . . .

9—Chuck Wetzler, Structural Clay Products Institute, Jerry Alstad, John Nelson and Gene Haverkamp, Mason City Brick and Tile . . . 10—Six Benson, Bill Meyer and Roy Howard . . . 11—Jack Fisher, technical director, Metal Lath & Plaster Association, and John Johnson, Minnesota Lathing & Plastering Bureau . . . 12—Mrs. Gordon Moody, Margaret Heed, Minnesota Power & Light, Mrs. K. M. Countryman and Mrs. Michael Hornung . . .

13—H. E. Pickles, U. S. Rubber Co., and Architect Allan Meinecke . . . 14—E. C. Jones, Devoe-Reynolds Paint, and Reinhold Melander, Duluth architect . . . 15—The Flour City Ornamental Iron display . . . 16—Bert Powers, Pittsburgh Plate Glass, Architect Jim Horan and Dick Stein, Pittsburgh Glass . . . 17—Willis Bloomquist, Pella Products, and Elizabeth Close, Minneapolis architect.



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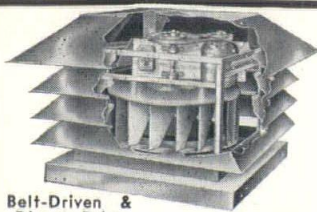
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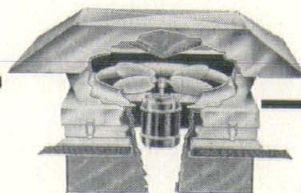
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Twin Cities' Builders' Exchanges Are Hosts to Golfers at Annual Tourney



Good weather, keen interest and the bite of the golf bug produced a good turnout for the annual Minneapolis and St. Paul Builders' Exchanges' golf tournament and dinner party at Midland Hills Country Club recently. Total tab for the event reached 350 members of the building industry.

The inter-city golf trophy was retained by the Minneapolis players, largely through the golfing of the city's low net foursome made up of Cos Egan, Fred Watson, Ken Dale and Bernie Nelson. Cos Egan was the low gross winner with a sparkling 73 and low net was taken by Emil Walsh with a 66. Ed Anderson netted a 68 and Neil Sorenson had a 69. These and others were prize winners and the members of the exchanges also donated a number of door prizes.

Northwest Architect's Clair Loretz was there and took

the pictures on this and other pages. The small montage on this page shows pictures of . . . 1—The builders' exchanges' presidents, Bill Poppenberger of St. Paul and Roy Bertelsen of Minneapolis . . . 2—The low net foursome of Fred Watson of Watson Construction, Cos Egan of Egan & Sons, Kenny Dale of Dale Tile and Bernie Nelson of J. B. Nelson & Son . . . 3—Low gross winner Cos Egan . . . 4—Bob Baumeister, Carl Fogelberg, Roy Bertelsen and S. M. Olson with the city trophy won by Minneapolis . . . 5—Comedy by Emil Walsh of Steenberg Construction . . . 6—Ron Gridley, Minneapolis engineer, Clem Sparrow of C. E. Sparrow Co., Vern Stelmack of G. N. Orr Co., and Merland Kispert of Ellerbe & Co. . . 7—The exchange secretaries, Ray Thibodeau of St. Paul and Bill Meyer of Minneapolis.

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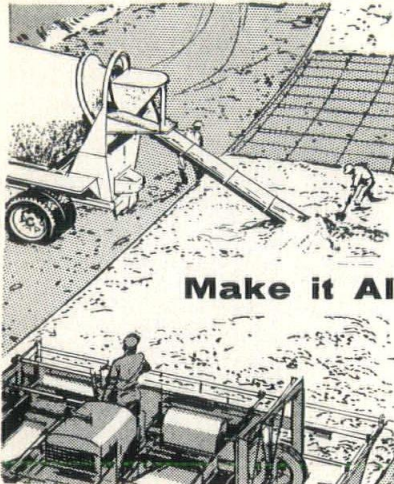
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More Golf

The montage on the opposite page shows . . . 1—Art Bjerken of A. C. Bjerken & Associates, Bob Chadwick, Dale Moll, Western Mineral Products, and Austin Lange, Minneapolis architect . . . 2—Jim Coulter of Keelor Steel (second from left, rear) with L. E. Towle, Cliff Jordan, Lawrence Holen, L. C. Lasch, Jack Hustad and Andy Whitton, all of The Hustad Co., Minneapolis . . . 3—George Cook, Jr., Frank Coyle, Don Black and Bill Morgan of G. F. Cook Construction Co., Minneapolis . . . 4—John Pearson, Andy Whitton, George Beckman, L. E. Towle and Vern Murphy, The Hustad Co. . . .

5—Carl Seterstrom, Inland Steel Products, Bill Wick, C. W. Olson Co., Howard Bailer, St. Paul Foundry, and Don Selfe, Geo. Grant Construction . . . 6—Walter Buckholz and Roy Bertelsen try out a golf wagon . . . 7—Ray Horwath, Mankato Stone Co., and Bob McGee, St. Paul architect . . . 8—Gordon Matson, Magney, Tusler & Setter, John Gislason, Twin City Testing & Engineering, M. A. Johnston, Johnston & Sahlman, and Harold Anderson, Inland Supply Co. . . . 9—Harry Spell, Bob Olson and Con Aas, Northern States Power Co. . . .

10—Jack Forcier, Edward Sales, Kerm Johnson, Crown Iron Works, and Del Diessner, C. O. Field Co. . . . 11—Walter Baumeister, treasurer, and P. M. Bies, director, St. Paul exchange . . . 12—Al Arrigoni, American Terrazzo Co., Bill Schreiner, NADX Railroad, Dan Shirly, Central Warehouse Co., Joe Arrigoni, Arrigoni Bros. . . . 13—Bill Meyer, Warren Hesselroth and Leroy Pearson, Hauenstein & Burmeister.

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Still More Golf

The montage on opposite page shows . . . 1—Cap Saunders, Minneapolis architect, Gordon, George and John Madsen, Madsen Construction Co., Urban Abendroth and Orv Domhalt, Minneapolis architects . . . 2—Bob Nable, Inland Supply, Bob McGee, St. Paul architect, Bernie Koneczey and Tom Becken, Cemstone Co. . . . 3—Mark Jones, Glenmar Co., Walter Peterson, Standard Construction, Wayne Brock, Brock-White Co., and George Gessner, C. F. Haglin & Sons . . . 4—S. M. Olson, Eugene Griswold, Walter Buckholz, Minneapolis exchange directors, and Roy Bertelsen, exchange president . . .

5—Bill Mercer, Leigh Cement, Jess Root, Swanson & Youngdahl, and Cliff Peterson, C. H. Peterson Co. . . . 6—Ken Walters, Chamberlain Co., Cliff Bircker, Rod Johnson and Bill Wick, C. W. Olson Mfg. Co. . . . 7—Henry Olson, Twin City Brick Co., John Knutson, Knutson Construction Co., and Carl Carlson, Suburban Ready Mix . . . 8—Ed Siems, Stremel Bros., Carl Fogelberg, MacArthur Co., Lyle Eastling, N. W. Cement Co., and Bob Baumeister . . .

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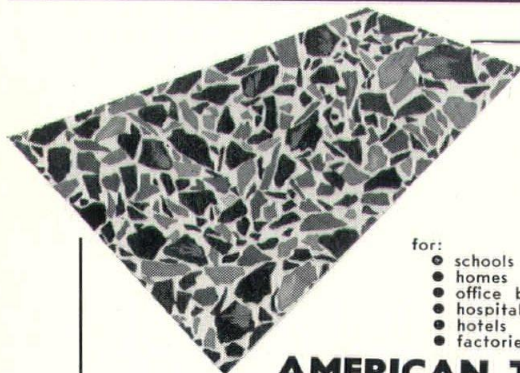
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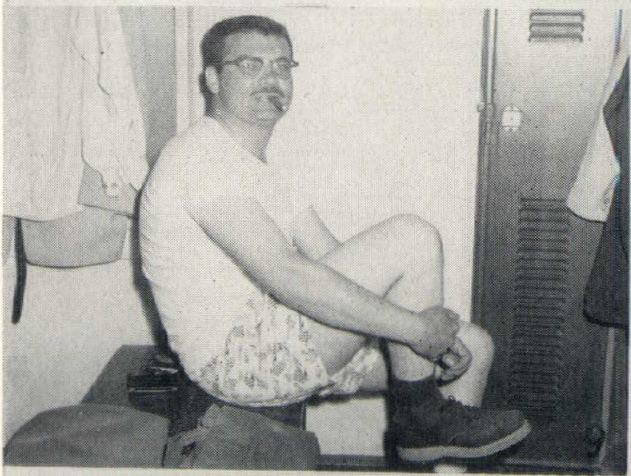
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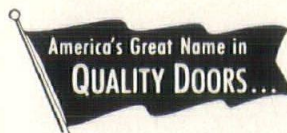
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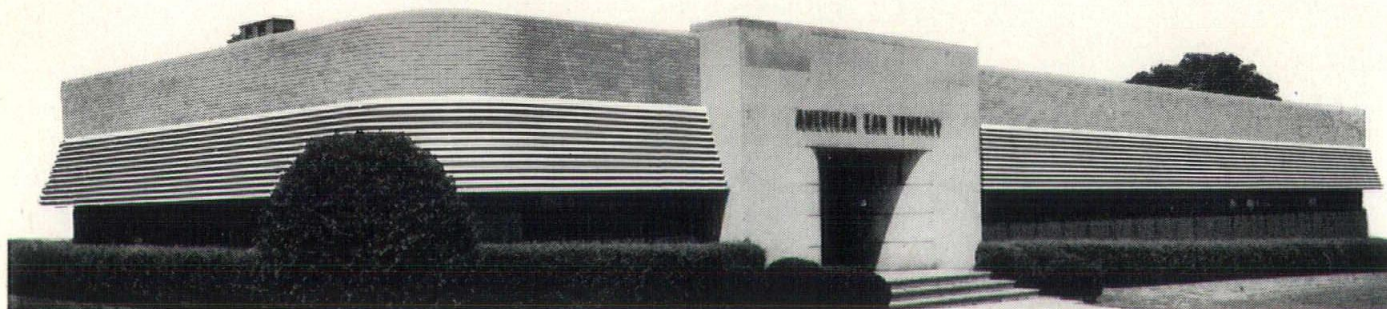
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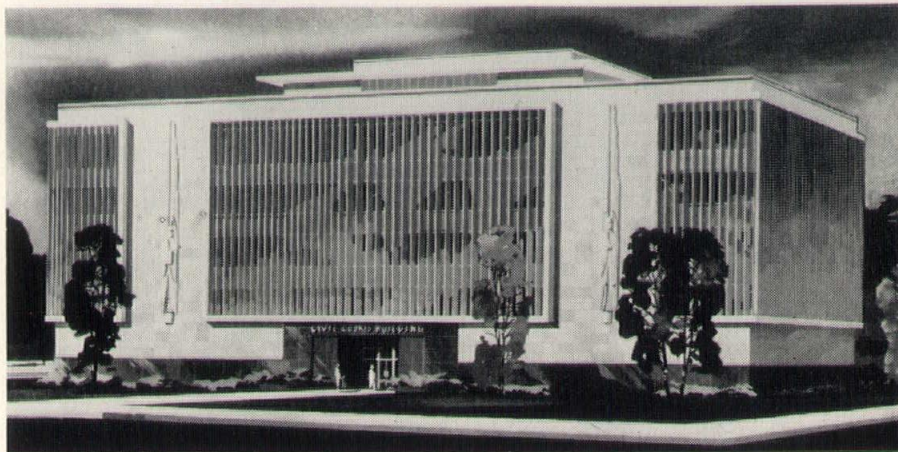
**Cross Section
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SUN CONTROL DEMONSTRATED BY PELLA PRODUCTS

Effects of solar heat have always been considerations in building design and construction, Pella Products pointed out to convention-goers at the recent MSA meetings, where it had an exhibit. Insulating materials are standard for reducing heat transmission through walls and roofs. But insulation at the windows is often overlooked, despite the fact that windows transmit more heat per square foot than any other exterior surface. Contemporary design demands more and more window area.

"Building orientation, screens and eyebrows have been used as external means of gaining some relief. Special glass, glass blocks and plastics have been tried. Venetian blinds, drapes and shades are common products that have been applied internally. But all of these provide only part of the answer. None of these can be properly called sun control," the company said.

"A true sun control device, to be complete, would exclude solar heat, exclude sun and sky glare, admit reflected and diffused light (including ground-reflected light from snow) distribute light evenly throughout the interior, provide a uniform light intensity over the en-



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tire window area and compensate for sun movement and varying intensities of sunlight.

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even when scattered window arrangements are forced by interior utility."

STEEL SCHOLARSHIP WON BY TWO ST. PAUL STUDENTS

Reconsideration by the American Institute of Steel Construction of its list of 88 scholarship candidates has resulted in the naming of a recent St. Paul Wilson High School graduate as one of 10 winners of \$1,000 engineering scholarships given annually by the AISC. Darwyn Linder, 18, who was previously selected as an alternate winner in the national contest, will now receive a \$1,000 scholarship in civil engineering.

As a result of the change the \$500 scholarship presented annually by

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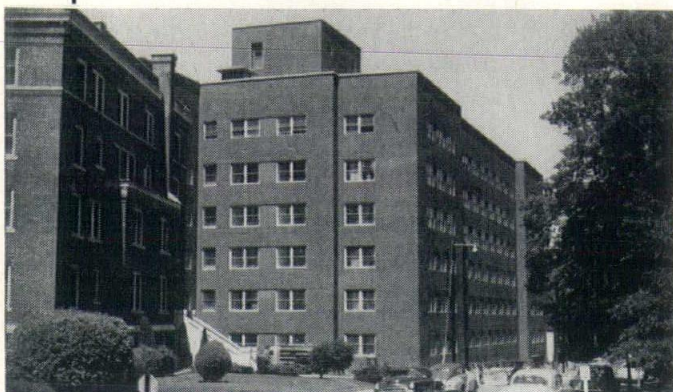
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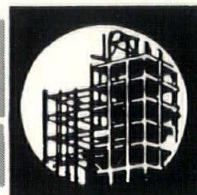
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St. Paul Structural Steel Company will be awarded David Cordes, Humboldt High School graduate. David joined with Linder in the finals of the national contest. The latter's selection as a national winner marks the first time in the six years St. Paul Structural Steel Company has participated in the contest that a local contestant has earned a \$1,000 scholarship.

Darwyn plans to enter Macalester College, where he will major in civil engineering and minor in speech. He ranked among the top 13 students in his graduating class at Wilson, and was recently declared winner of a "certificate of merit" awarded annually by the National Merit Scholarship Corporation to high school seniors rated among the nation's top one per cent "who have displayed unusual academic promise."

GE PRESENTS MODULAR LOW-VOLTAGE SWITCHBOARD

A new low-voltage switchboard, built in standardized modules for application versatility, has been announced by R. C. Wilson, manager of marketing for General Electric's Distribution Assemblies Department. This new switchboard is designed for any incoming service, 600 volts or less. Its mains are rated 800 through 4,000 amperes.

The new switchboard is designated the Type DR Universal because the structure and vertical bus

bars are drilled to accommodate virtually any combination of seven different low-voltage protective devices.

The new Type DR switchboard is pre-engineered to predetermined standards and constructed in unitized modules. This feature, Mr. Wilson explained, makes it possible to completely lay out, price and dimension this new switchboard from published information. It also allows protective devices to be added, replaced or rearranged in the field with minimum labor. Further it permits the ordering and installation of additional sections in the

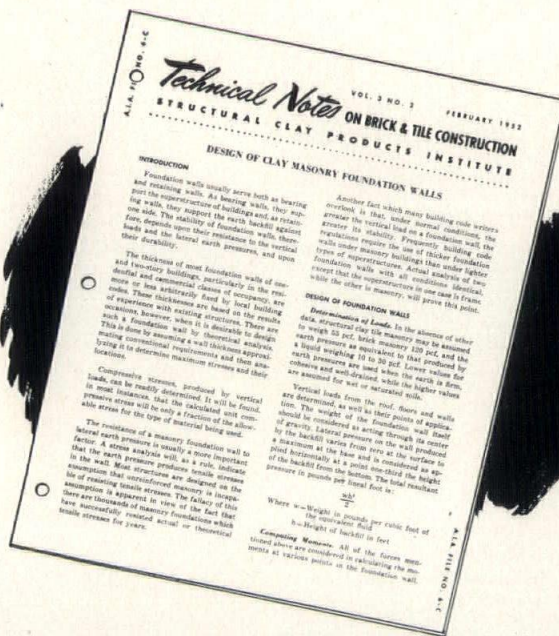
field with complete assurance that they will match the line up with earlier installations of this new switchboard.

The mains of the new Type DR Switchboard consist of bus bars mounted horizontally in the center of each section. Two separate vertical bus structures in each section are center-fed from this main horizontal bus, thus leaving the top and bottom areas free for incoming busway or cable.

Each of the two vertical bus structures is arranged in a triangular configuration.

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.

Check your table of contents page and index of all 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.

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.

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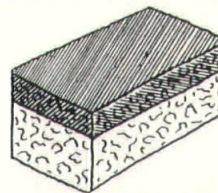
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VERSATILITY FEATURE OF APCO WINDOW WALL

The APCO Window Wall, distributed in this area by Bartley Sales Company of Minneapolis, gives the architect greater versatility in design because of the many applications to various structural systems. Evolution and experience have combined to solve design, construction, erection, maintenance, weathering and many other problems that have been determining factors in the use of window walls, a recent report on the system pointed out.

"Designwise, the architect's hand can exercise a new freedom of sight lines, various panel types, glass and panel arrangements, the company said. "Construction of the APCO Window Wall meets or exceeds DH-A2 specifications as published by Aluminum Window Manufacturers' Association and tests performed by Pittsburgh Testing Laboratories.

"Erection of APCO Window Wall is simple. Ease of installation reduces construction cost. Additional savings are made through the elimination of certain steel members, furring or blocking to prepare openings. Quality construction eliminates costly maintenance. The highest quality Pullman stainless steel spring tape provides for trouble free sash operation.

"Weathering problems are solved by use of Schlegel Cloth Pile Weatherstripping the sash.

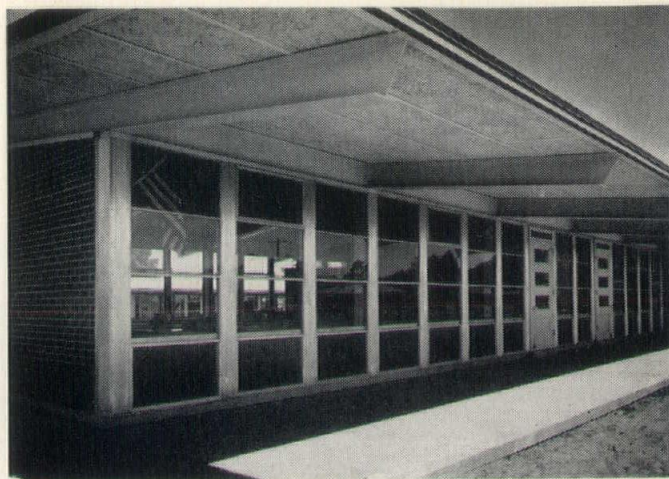
H. A. ROGERS MOVES DULUTH PLANT

H. A. Rogers Co. has moved its Duluth operation (formerly Copy Cats, Inc., acquired in December, 1956) into new and enlarged quarters, simultaneously changing the name to H. A. Rogers Duluth, Inc.

"This move will enable us to greatly expand our reproduction services at the Head of the Lakes," the announcement said. "It will also permit us to carry a much larger and more complete inventory of supplies and equipment for drafting rooms and land surveyors. Included are Ozalid sensitized papers and merchandise bearing the labels of Dietzgen, Post, Hamilton, Gurley, Lufkin and other well known manufacturers of drafting materials and equipment."

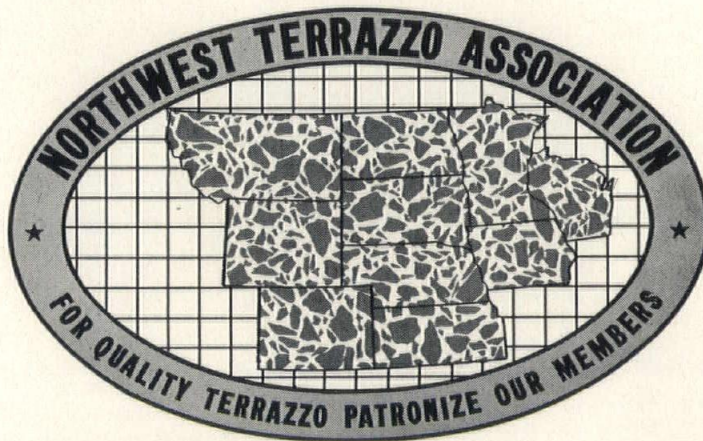
In charge of this branch is R. E. (Gene) Simkins, long experienced in

JULY-AUGUST, 1957



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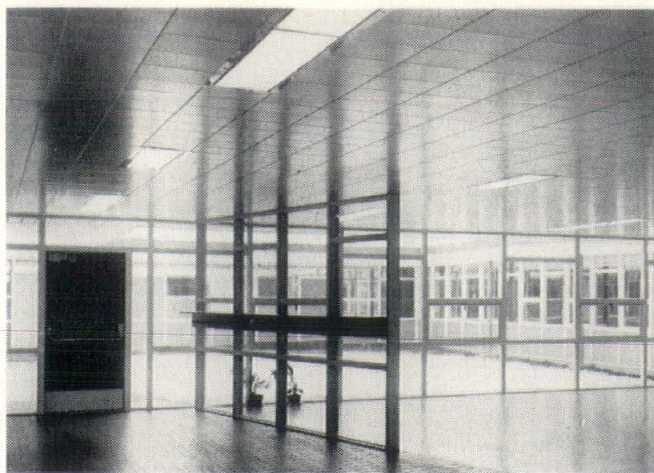
For specifications consult
Sweet's Catalog Section 13G

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the drafting supply business. The reproduction department will continue to be under the direct supervision of Cliff Fechner. "New equipment has been added to the plant to provide most of the newer reproduction processes formerly available only in the Twin City area. The establishment of this new plant will mark the first time in the history of Duluth-Superior that the area has had a concern dedicated exclusively to serving the professional needs of engineers and draftsmen for materials, equipment and reproduction services."



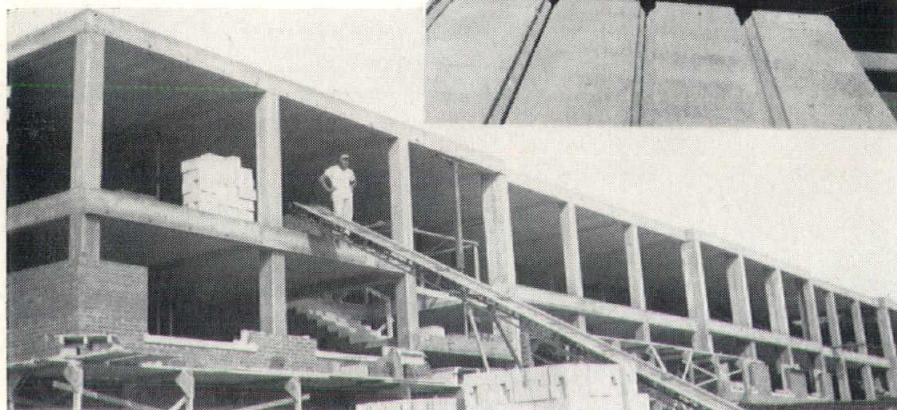
BURGESS-MANNING CEILING HEATS, COOLS, CONTROLS SOUND

A new ceiling system which radiantly heats or cools and controls sound in a room is the 3-way Functional Ceiling of the Burgess-Manning Co., distributed in this area by Insulation

Sales Co., Minneapolis.

DOX PRECAST SLABS

Speed Construction



Buggied into position is a Dox 8" floor providing an immediate working deck on the Kenosha County Hospital, Kenosha, Wisconsin.

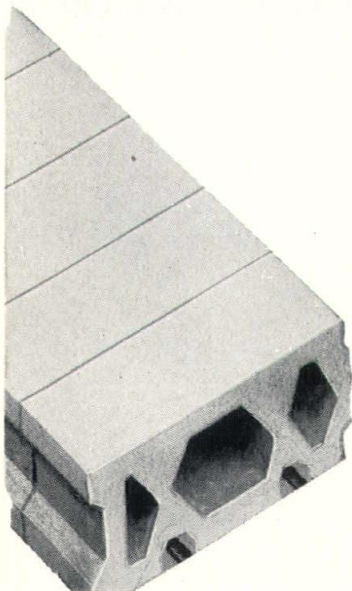
Lindl, Schuett, Zarse & Associates, Kenosha, architects

Dox precast slabs are lightweight concrete and are used to greater advantage in the construction of floors and roofs for commercial, residential, industrial and agricultural building.

DOX-BLOCK SYSTEM

ST. PAUL PARK, MINN.

VANDER HAYDEN INC.
Milwaukee, Wisc.



"Let us remember that the human body is constantly generating an excess of heat and that comfort is dependent upon an effortless loss of this excess body heat at the same rate as it is produced," the company reported. "Therefore, it becomes necessary to provide a controlled heat balance between the human body and its adjacent surroundings. In heating a building it is not a question of heating the occupant but rather of heating the surroundings to prevent his losing body heat too rapidly.

"Since more than half of the human body heat is transferred by radiation, the most direct means of controlling this heat transfer is to provide counter radiation to control the rate of body heat loss. Radiant energy passes to any absorbing surrounding or object without directly affecting the temperature of the air through which it passes. In a radiantly heated room, objects absorb energy directly and all surfaces become warm. A person in that room is comfortable, since the rate of body heat loss to its surroundings is controlled.

"Conversely to make a person comfortably cool in summer it is necessary to make the object adjacent to the individual cool. . . . The logical location for a radiant surface is one that can not be shielded; in building terms, the ceiling. The most practical method for sound conditioning is the acoustical ceiling. The Burgess-Manning Ceiling provides in one simple combination a superior, efficient acoustical ceiling that is also the most efficient

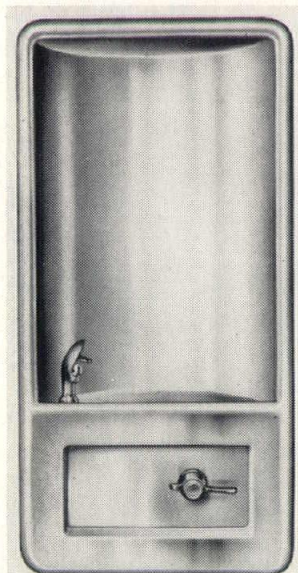
radiant ceiling available—for both heating and cooling.

"The perforated, enameled aluminum panels that make up the ceiling surface are fastened directly to the pipes which form the water circulating coils. The panels are heated or cooled conductively by the pipes to provide a uniformly warm or cool radiant surface."

Pamphlets and additional information on this ceiling can be obtained from Insulation Sales Co., 20 Lakeside Ave., Minneapolis.

HAWS ANNOUNCES NEW FULLY RECESSED DRINKER

Haws Drinking Faucet Company, Berkeley, Calif., has introduced a fully recessed drinking fountain, smoothly designed in 18 gauge, type 304, No. 4 finish, stainless steel. The receptor, which weighs less than



thirty pounds, is effectively sound insulated and has a convenient, removable front access panel. Its simple, uncluttered lines complement diverse interior surroundings, the makers pointed out.

"Model 82 provides automatic stream control and a self-closing valve, operated by a chrome plated lever handle," the announcement said. "Haws Model M shielded anti-squirt fountain head is on raised boss and is locked to the receptor in a vandal proof manner. The new fully recessed model is 30 1/4 inches high, 15 1/4 inches wide and has a depth of 10 3/4 inches. It can be furnished with a glass filler faucet mounted on the back, or may be

installed as a fountain-cuspidor combination."

MASONRY WALL REINFORCEMENT RESEARCH RESULTS PUBLISHED

Findings of an independent research study on masonry wall reinforcement were released this week simultaneously by the seven Dur-O-wal manufacturing plants. "Conducted by Edwin L. Saxer, professor and chairman of the engineering department, University of Toledo, the study is among the most

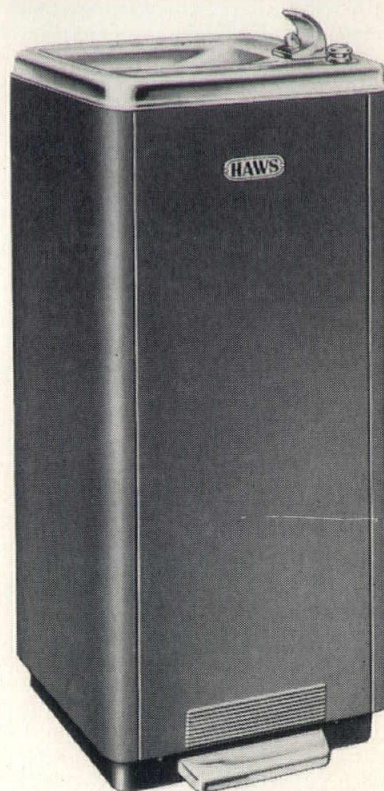
comprehensive ever undertaken in this field," the company said. "It includes the effectiveness of deformation of steel side rods, design comparison tests, mortars, the distribution of wall stresses and other related tests.

"Compilations of this report in standard file form are now available to practitioners in the architectural building and engineering fields. Copies can be secured without cost by writing to Dur-O-wal, P.O. Box 89, Cedar Rapids 27, Iowa."

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WOOD CONVERSION CONVENTION LUNCHEON FOLLOWED BY PLANT TOUR

How necessity mothered invention, whose father was foresight, was demonstrated to some of those who attended the recent Minnesota convention when the Wood Conversion Company sponsored a luncheon

and plant tour of its Cloquet, Minn., activities. The story behind the plant was told those on the tour and we take the liberty of printing it here.

"When the town of Cloquet, Minn., and the surrounding white pine forests were destroyed by the Great Fire of 1918, the future of the town was in jeopardy for white pine, once gone, does not renew itself and there remained only trees of lesser species—aspens, balsam and jack pine. The only hope for Cloquet lay in the development of new ways to utilize existing forest growth. One of the pioneers in this laboratory research was Wood Conversion Company, which was founded by Weyerhaeuser affiliated companies in 1921.

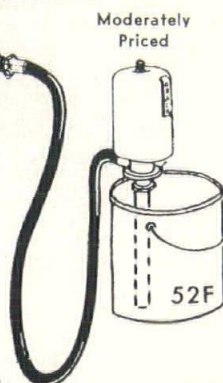
"The first product which resulted from this research was Balsam-Wool blanket insulation. This cellulose fiber product was designed to perform effectively under varying climatic conditions. It was the first completely sealed insulation, the first with an integral vapor barrier, the first with spacer flanges for positive application and the first with air

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spaces on both sides of the blanket. It is used principally for wall and ceiling insulation in new homes and attic insulation in older homes. Balsam-Wool today is the mark of a quality-built house . . . paying yearly dividends in fuel savings and lowering air-conditioning costs. For more than 20 years, it was the only building manufacturer to offer a money back guarantee on attic insulation (including cost of labor). Balsam-Wool is available in single and double thicknesses with either aluminum reflective liners or asphalt-coated liners. Wood Conversion Company is the oldest manufacturer of blanket insulation and the largest one selling exclusively to retail lumber dealers.

"A few years later, Nu-Wood insulation board was introduced. Nu-Wood is clean, new wood separated into individual fibers which are formed under pressure to make an insulating board of many uses. This board is processed to form Nu-Wood insulation interior finish, which includes Nu-Wood Tile, Acoustical Tile, Panel-Tex wallboard and Board. Nu-Wood Interior Finish is installed over framing, furring or continuous surfaces in new or old construction. In existing construction application is made over wall and ceiling surfaces of plaster, masonry or wood. It needs no painting but may be painted for special decorative effects. Nu-Wood does more than decorate, it insulates against

heat and cold and hushes noise. Nu-Wood is also used as an insulating sheathing to reduce building costs while making exterior walls stronger and weatherproof.

"Balsam-Wool and Nu-Wood are both manufactured at the Company's plant in Cloquet, Minnesota. However, a new eastern plant is now being built near Riverside, N. J., and is expected to be in production early next year. It will produce Balsam-Wool and Tufflex, the company's cellulose fiber product for industrial uses.

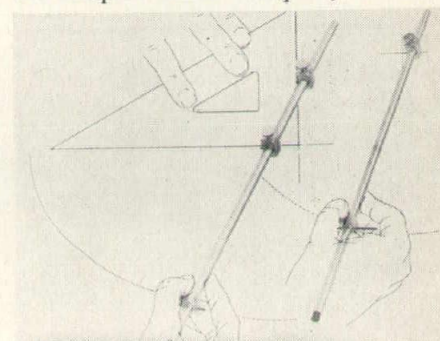
"Wood Conversion Company now employs some 1,500 persons, 1,200 of them are located in the Cloquet plant. Sales activities are directed from the home office in St. Paul and sales offices are maintained in Boston, New York, Atlanta, Buffalo, Kansas City, San Francisco, Detroit and Chicago.

NEW COMPASS AND ELLIPSOGRAPH DEVELOPED BY AERO ENGINEERS

Development of a new two-in-one drawing and drafting instrument,

the Aero Beam Compass and Ellipsograph, has been announced by the Aero Engineering Company of Azusa, Calif.

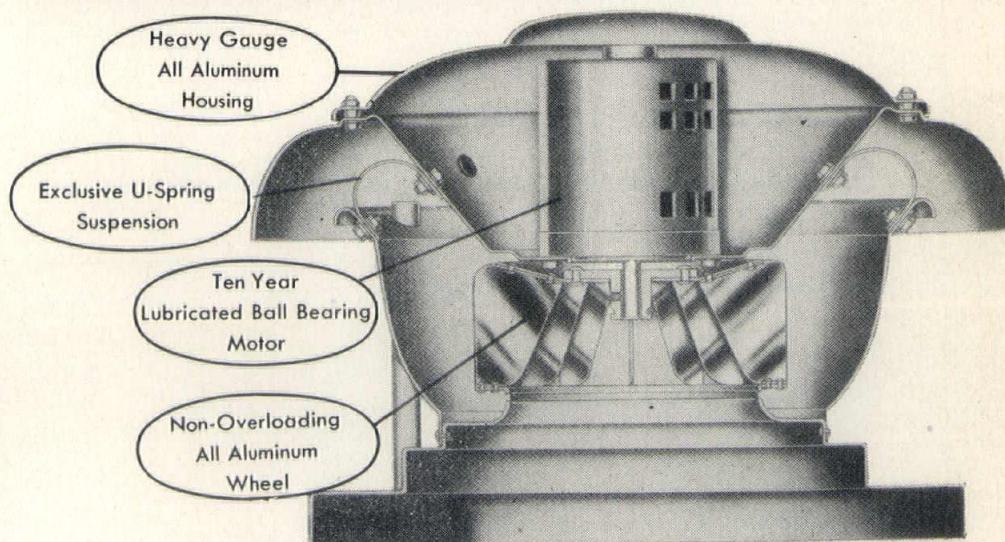
"As a logical adaptation of the traditional two-legged compass to the simpler beam compass, the new



instrument also is easily converted to an ellipsograph which draws ellipses with any radii from 7/16" to 12" and to any degree from 10° to 65° without the limitations of ordinary French curves or other devices," the company said.

"As a simple beam compass, the principal components are two aluminum blocks which move freely along the length of the beam. One block holds a pivot pin, the other a lead point. Adjustment is provided for

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circles up to 24" diameter. Simply and efficiently designed, the new compass will not tip over in use and can be manipulated with one hand.

"The beam compass converts to

an ellipsograph merely by changing points and adding a third block. All parts are provided with the complete set and the entire instrument is fabricated from polished aluminum

for long service."

Priced at \$3.95, the compass and ellipsograph can be ordered directly from Aero Engineering Sales Company, P.O. Box 85, Azusa, Calif. Free literature will be furnished on request.

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BRICK CLASSROOM WITH- STANDS ATOMIC BLAST

A full-size brick school structure successfully withstood the effect of an atomic blast during the recent 1957 "Plumbob" nuclear test series, the Federal Civil Defense Administration has announced. The structure which was designed by the Structural Clay Products Research Foundation, Geneva, Illinois, research arm of the nation's brick and structural tile industry, was one of five structures under test to evaluate new reinforced brick and tile wall designs.

In the same test, two roof structures of reinforced clay tile beams also were not visibly damaged. In addition, six walls of brick and tile in two other structures were successful in developing wall arching-resistance to blast pressure, the FCDA announced.

"The Structural Clay Products Research Foundation had five structures under test to evaluate new reinforced brick and tile wall designs and to study wall arching-resistance to atomic blast pressures," the FCDA release said.

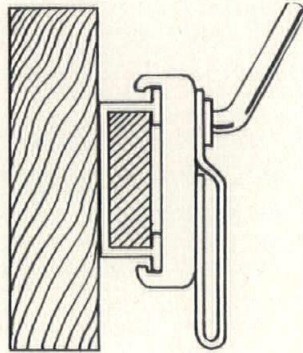
"A full-size brick structure, 32 feet by 28 feet, which could serve as a school classroom, survived atomic blast sources with no apparent damage inside or out. No cracks were noted in the walls, roof or at any joints. Large enough for a typical class of 30 pupils, the building could have provided a high degree of blast protection.

"The structure had 10-inch-thick reinforced brick walls, a reinforced concrete flat roof and was windowless.

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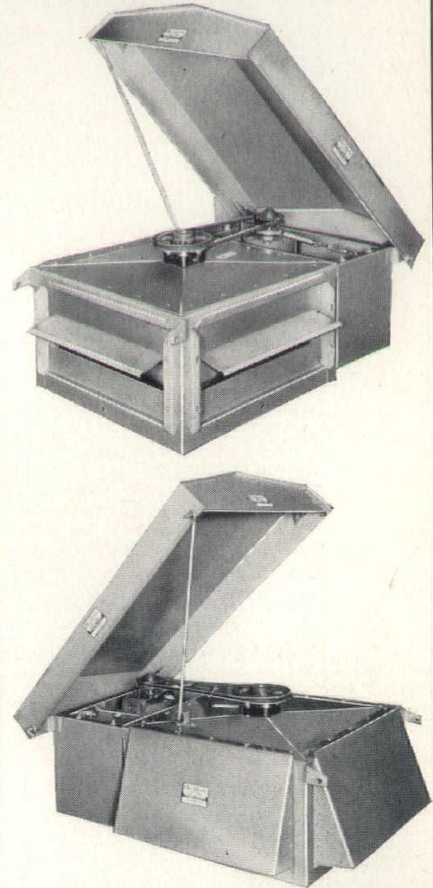
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Index to Advertising

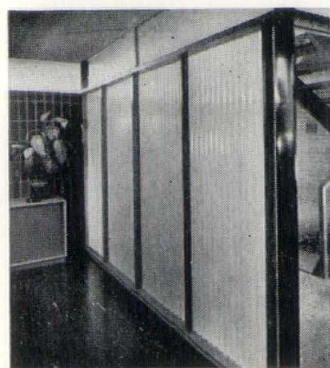
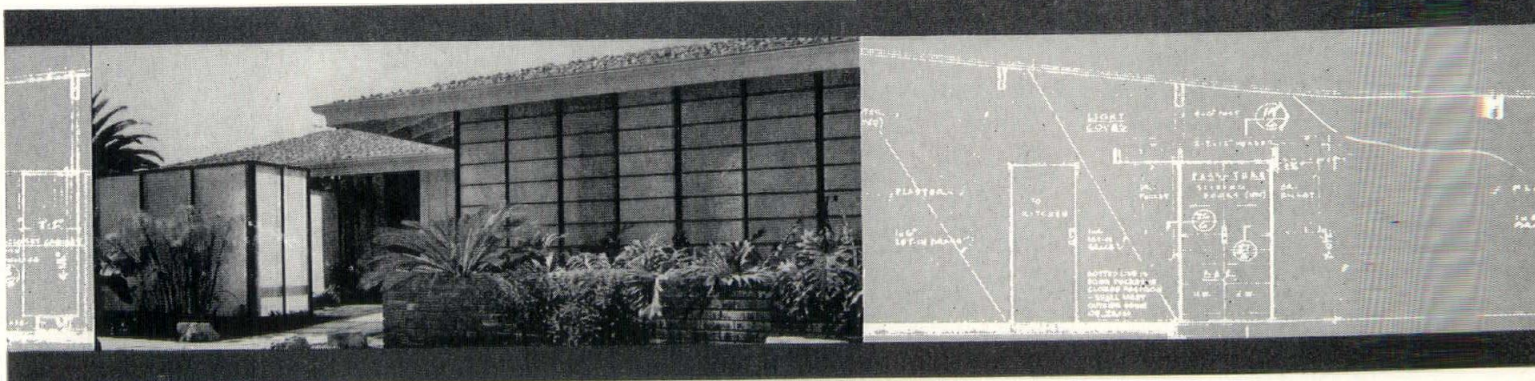
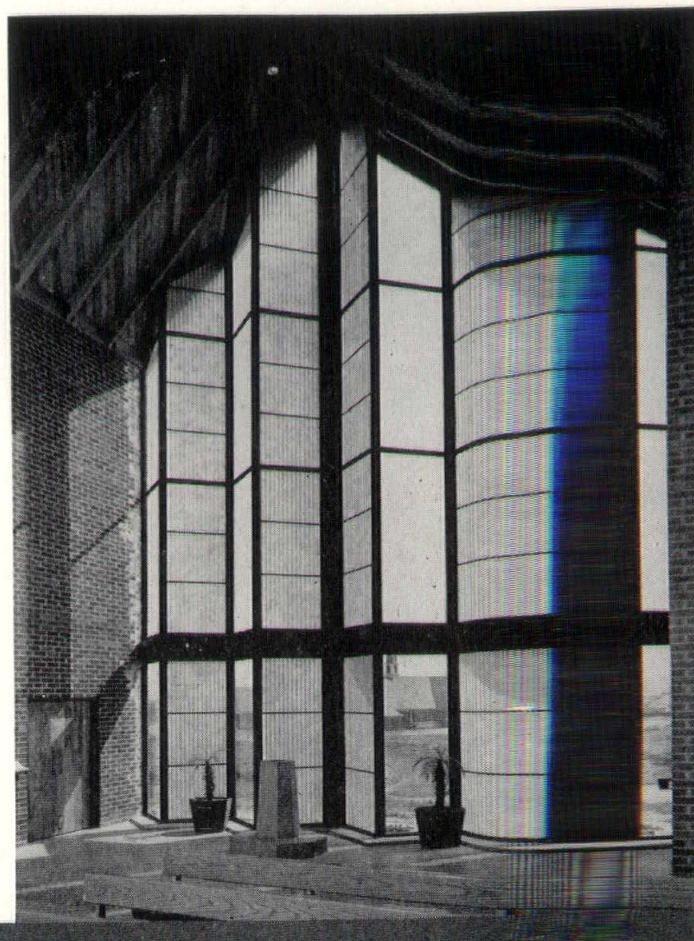
Aerigoni Bros.	68	Minnesota Lathing & Plastering PR Bureau.....	55
American Artstone Company.....	60	Minnesota Mining & Manufacturing	48, 49
American Terrazzo.....	68	Molin Concrete Products Co.	80
Ammerman Co., Inc.....	81	Moore & Co., Benjamin	60
		Muckle Mfg. Co.....	64
Babcock Co.	64		
Bartley Sales Co.	11	NCL Enterprises	33
BMD & R, Inc.	50	Neal Slate Co., W. E.	81
Bros Boiler Mfg. Co.	8	Neubauer Mfg. Co.	62
		North Central Supply Co.	66
Canton Lumber Sales.....	Back Cover	Northern States Power Co.	Cover II
Cedar Rapids Block Co.....	54	Northwest Terrazzo Association	75
Central Engineering & Investment Co.....	6	Northwest Sash & Door Co.	64
Chamberlain Co. of America.....	73		
Chicago School of Interior Decoration.....	80	Ochs Brick & Tile Co.	64
Child, Rollin B.	10	Olson Mfg. Co., C. W.	78
Cowin & Co., Inc.	50	Overhead Door Corporation	70
Crown Iron Works.....	20, 21	Overhead Door of Minneapolis	70
		Overhead Door of St. Paul	70
Dox Blocks System.....	76		
Drake Marble	56	Paper-Calmenson Co.	42, 43
Duluth Ready-Mix, Inc.....	60	Paille-Midway Co., L.	80
		Pella Products	3
Electro Cote Co.	78	Prestressed Concrete Co.	15
		Producers' Council	16
Farnham Stationery & School Supply.....	5		
Freidheim Co., Chas. M.....	22	Rich-McFarlane Cut Stone	78
		Rogers, H. A., & Electric Blue Print.....	62
Gardner Hardware	54	Roofings, Inc.	68
General Electric Supply Co.	56	Rubble Stone Co.	79
Globe, Inc.	13		
Gopher Stone & Brick Co.	71	St. Paul Stamp Works	74
		St. Paul Structural Steel Co.	72
Haldeman-Homme, Inc.	9, 19	Sjostrom of Philadelphia.....	19
Hall Co., W. L.	62	Smooth Ceilings System	72
Haws Drinking Faucet Co.	77	C. E. Sparrow Co.	81
Hebron Brick Co.	81	Sparta Ceramic Co.	10
Heltne Ventilating Co.	79	Speed-O-Lac Products, Inc.	74
Holm & Olson	62	Steel Structures	7
Hustad Co.	58	Stremel Bros. Mfg. Co.	80
		Structural Clay Products Institute.....	73
Inland Supply Co.	66		
Insulation Engineers	12	Twin City Brick Co.	74
Insulation Sales Co.	52	Twin City.. Testing & Engineering	80
		Twin City Tile & Marble	74
Keelor Steel Co.	Cover III		
Kesko Products, Inc.	11	Unit Structures	52
Layne-Minnesota	56	Vari-Tone Paint Products Co.	46
Lewis, Geo. R.	66, 68	Venice Art & Marble Co.....	78
Mankato Stone Co.	66		
McKinley Co., O. O.	70	Western Mineral Products	18
Millerbend Co.	58	Wooster Products	53
Minneapolis Blue Printing	68		
Minnesota Conference of Plasterers & Bricklayers.....	14	Zonolite Co.	18
Minnesota Fence & Iron Works	17		

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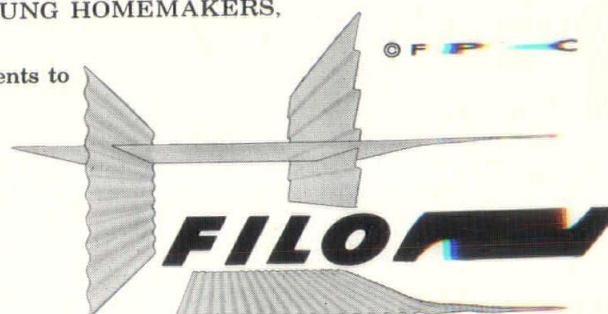
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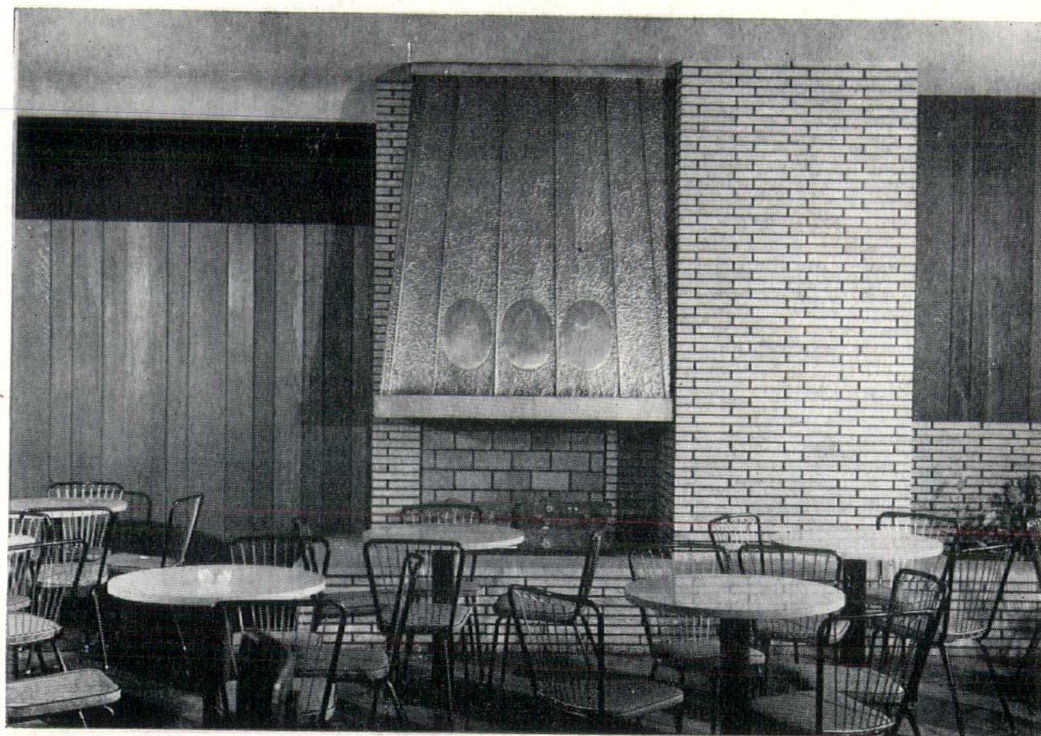
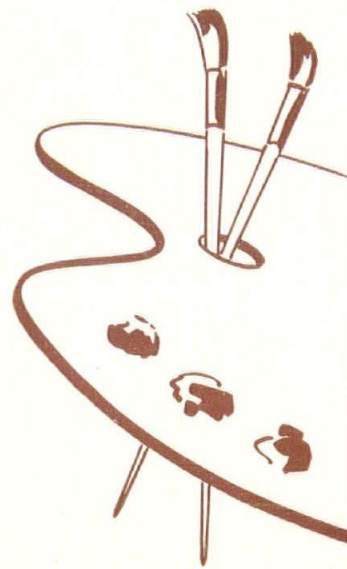
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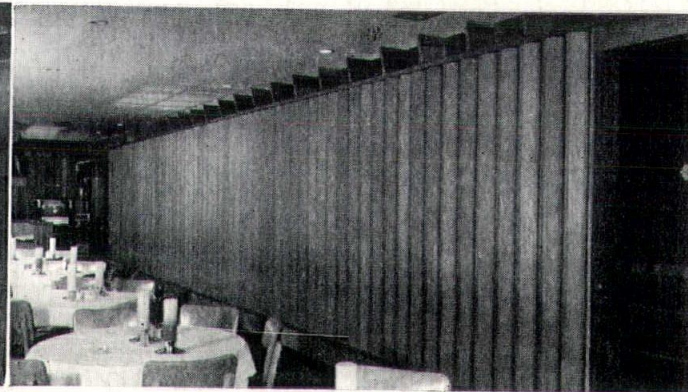
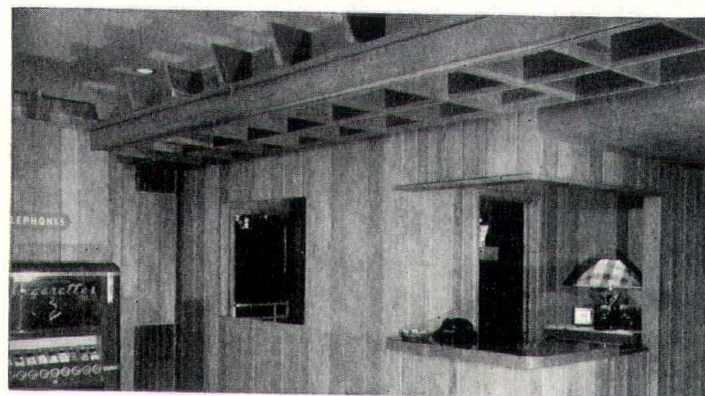
GOOD TASTE IN INTERIOR DESIGN

The Redwood Terrace
 at Shakopee's
 St. Paul House



BEAUTIFULLY-GRAINED PALCO REDWOOD
 CLEAR HEART FLAT GRAIN PANELING was used

extensively on the Redwood Terrace, the Twin Cities' largest supper club, located in Shakopee. Shown above is the lounge featuring a pleasing combination of redwood, brick, brass and wrought iron.



PALCO REDWOOD shrinks and swells less than any other wood; costs less than pine and has a natural warm color. Use PALCO REDWOOD liberally for either interior or exterior design. Above, left, check room, paneled in Palco redwood. Note redwood overhead grillework, making a low ceiling which in itself builds a distinct area. Above, right, vertical redwood floor-to-ceiling louvre separating dining area from hall leading to non-restaurant space. Redwood grillework also used over hallway.



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