

NORTHWEST ARCHITECT

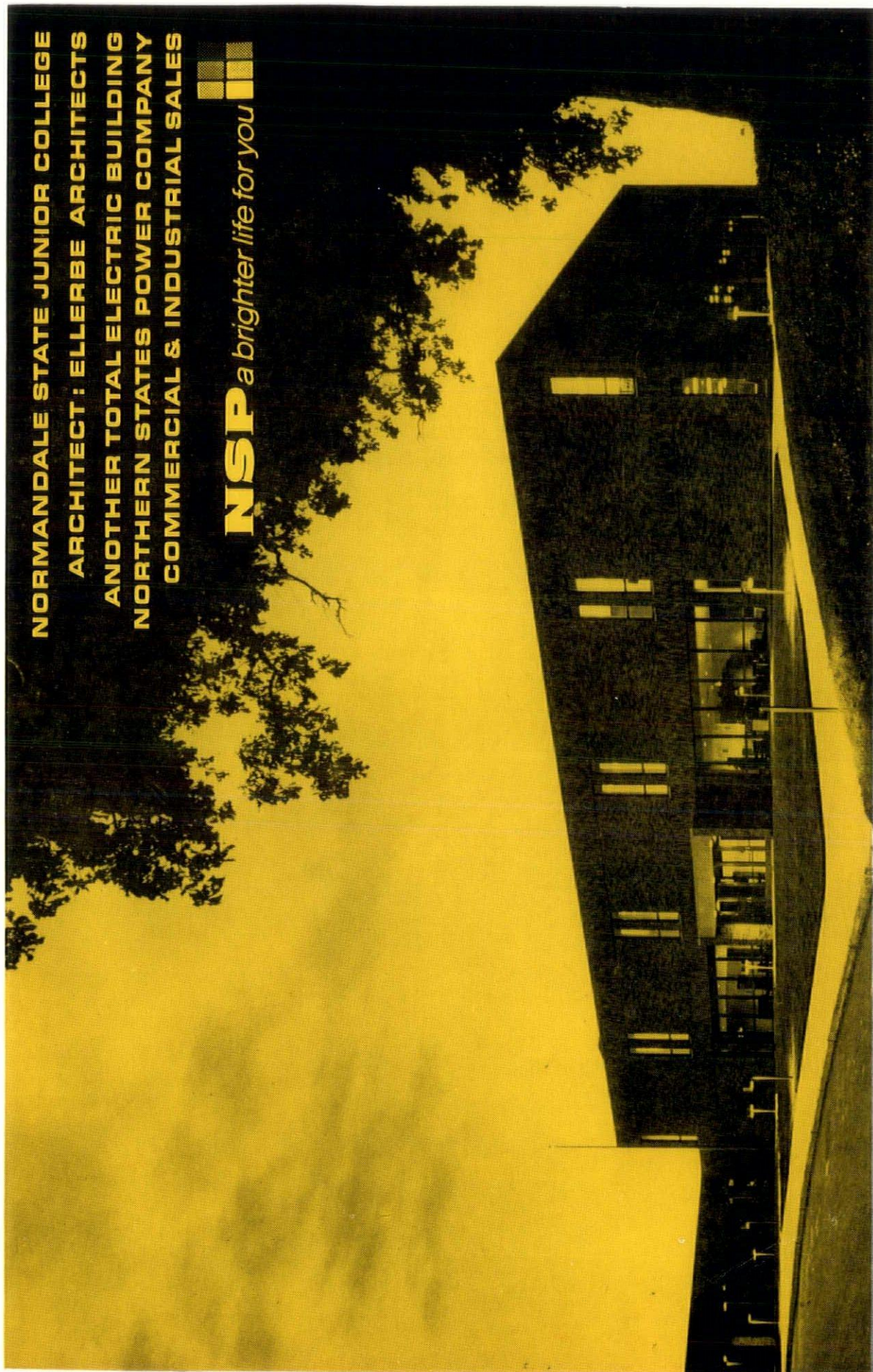
SEPTEMBER OCTOBER

1969

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NORTHWEST ARCHITECT

Official Publication of the Minnesota Society of Architects

VOLUME XXXIII NUMBER 6

September-October 1969

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Area Notes

Architectural News from Five States

PEOPLE . . .

Lonnie Adkins of Adkins-Jackels Associates, St. Paul, has been named to the board of trustees of the National Urban League. He is president of the St. Paul Urban League.

Lutheran **Edward A. Sovik** of Northfield was elected secretary of the largely Roman Catholic National Liturgical Conference at its recent liturgical week in Milwaukee. A translation of his article "What is Religious Architecture" from *Faith & Form* is to appear in an anthology on art and religion to be published by Les Editions du Cerf of France.

Bergstedt, Wahlberg, Bergquist Associates, St. Paul, have opened a new structural engineering department under the direction of **Robert J. Eaton**, formerly with Schuett-Meier Co. and Bruch and Morrow, Inc.

Fred E. Wilbur, Jr., has been named manager of construction administration, specifications and coordination by Grover Dimond Associates, St. Paul architects and engineers. Succeeding him as manager of architectural production is **Gordon H. Edberg**.

Robert A. Wilson has been named manager of product research for Ellerbe Architects, St. Paul. **Roy B. Osterberg** succeeds him as manager of the specifications department.

A South St. Paul native and graduate of the University of Minnesota, **Peter Woytuk**, has been named vice-president of Hugh Stebbins and Associates, Cambridge, Mass., architects.

Eldon O. Burow and **Rodney L. Erickson** have been named associates of Hammel, Green and Abrahamson, St. Paul architects.

Hans J. Wessel, executive engineer for the 3M Company, died of a heart attack on July 9. A graduate of the University of Minnesota, he was a member of the St. Paul chapter of the American Institute of Architects.

James I. Lammers, job captain with Grover Dimond Associates, left this fall for one year of graduate work in the Architectural Technology Program at Columbia University. He received the Holt Fellowship given by the City of New York and an AIA grant.

Anthony D. Schultz, **Kenneth P. LeTourneau**, **Joseph A. Perry** and **Angelo A. Percich** have been named associates of Beutow & Associates, St. Paul architects and engineers.

Two architects spoke at the second annual Community Goals Institute of Bloomington. **David Bennett**, Minneapolis, pointed to its formlessness: "Bloomington is a city of many accesses but no destinations." **Robert Faricy**, St. Paul, predicted the

continuing expansion of adult education. "Instead of the traditional 15 years of education we will have 30 years of it."

The Austin, Minn., firm of **Ross Graves and Associated Architects** has been approved by the Minnesota Department of Labor and Industry for an apprenticeship training program and by the Veteran's Training Program, the only one such outside the Twin Cities. It has recently moved into new quarters.

Proposals for an extensive "greenway system" to extend and enhance Minneapolis's parkways were a parting gift from **Lewis Crutcher**, former Portland architect who was for 16 months director of planning and research for the Minneapolis Park and Recreation Board. Crutcher has joined an architectural firm in San Francisco.

Former St. Paul architect **Eugene V. Schaefer** died suddenly June 27 in the nursing home he owned and operated in Ellsworth, Wisconsin. He was 72.

John W. Bray, of the Sheboygan, Wis., architectural firm of Lawrence Bray & Associates, was killed when his car collided with a freight train near there on August 19.

Former Racine, Wis., architect **William M. Thompson** has been named resident architect for Colonial Williamsburg.

A travelling exhibition, "A Place to Live," has been designed and constructed by members of the Western Section of the Wisconsin Chapter of the American Institute of Architects. There are walk-through simulations of forest, rural, urban, suburban and possible future environments. After a month at the Madison Art Center it will be circulated through other areas.

The Des Moines, Iowa, Register columnist Donald Kaul paid tribute to the late **Mies van der Rohe** for his Home Federal Building in "that sea of ugliness we call downtown Des Moines." A second Mies building is Meredith Hall at Drake University.

Waverly C. Ormond, formerly of Norfolk, Va., has joined Powers, Willis and Associates of Iowa City as project architect.

Edward H. Healy, Cedar Rapids, has been elected president of the Iowa Board of Architectural Examiners. **Howard F. Bianco**, Mason City, is vice-president, and **Gerald I. Griffith**, Des Moines, secretary-treasurer.

The name of the Sioux Falls, S. D., firm of Ralph Koch and Associates has been changed to **Koch, Hazard and Associates, Architects**, with the addition to the firm of Robert Hazard, also of Sioux Falls. Koch is president and Hazard secretary-treasurer of the South Dakota Chapter of the American Institute of Architects.

The new name of the Devils Lake and Minot, N. D., architectural firm of Kielhack, Fougner, Pickett and Hanson is **Architects Planners Associated** to reflect their more comprehensive services.

(Continued on Page 72)

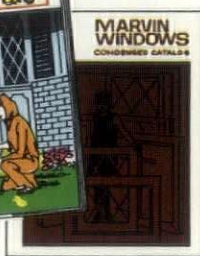


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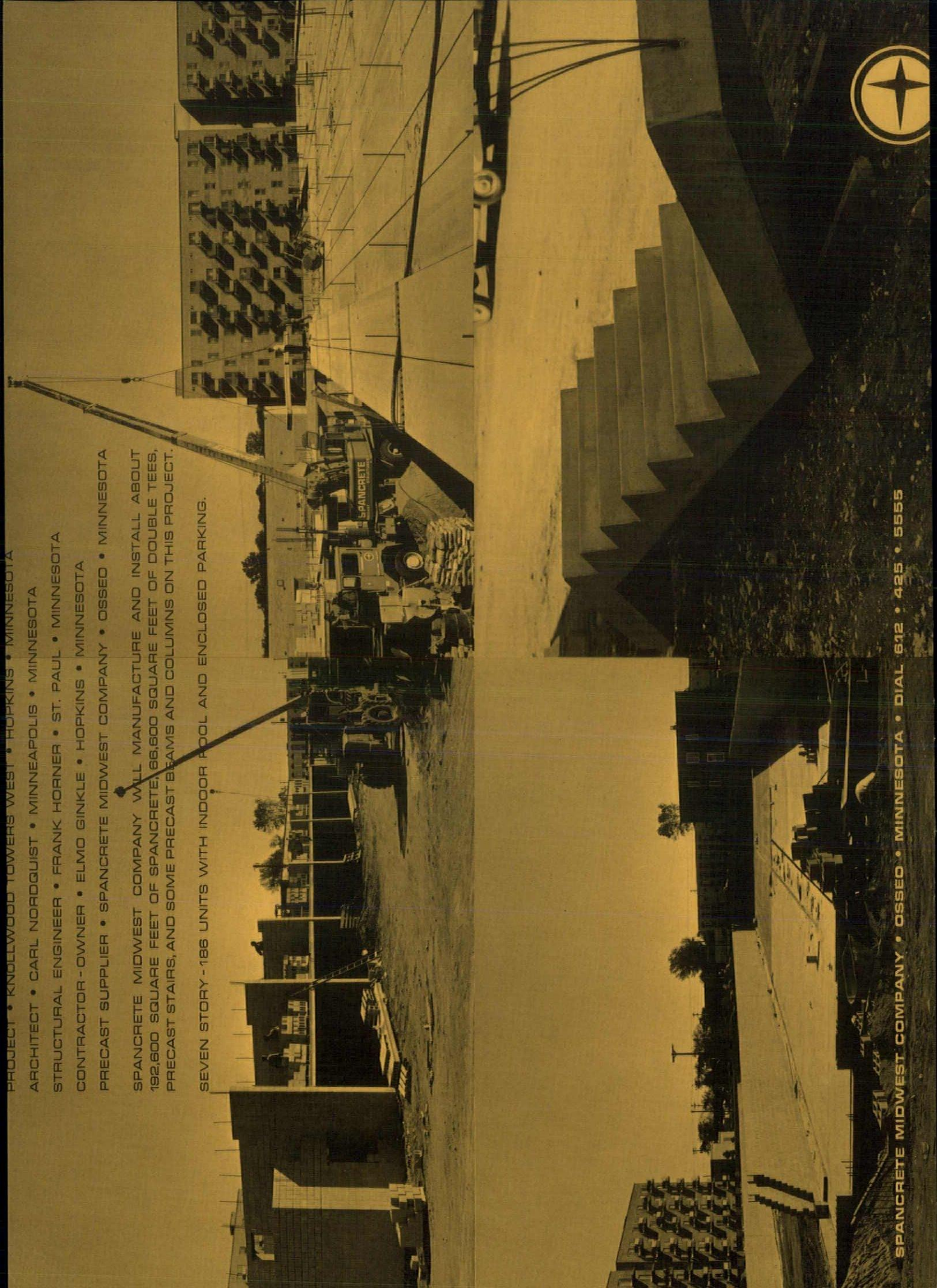


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An Area of Change Is Opportunity

By Donald Hassenstab

Executive Director, Minnesota Society
of Architects

Change in natural and man-made environments is eternal and the changes which have come, and will come, to Northeastern Minnesota, where our members in the Northeast Minnesota Chapter practice, present opportunities of many kinds. Architects of the area have always taken changes in stride and the presentation in this issue of Northwest Architect proves they have built to advantage!

However, there is no rest. What they have achieved is very creditable. When a city had to be moved, they helped in the plan and execution of the move. When the Depression struck the nation their area suffered; yet they kept up their practices and worked on painfully restricted budgets to keep at least a modicum of construction going, helping others in the construction industry do what was humanly possible. The designs which came from that period have weathered the years very well.

Depletion of Iron Range reserves of rich ore cast very deep shadows across the economy of northeastern Minnesota but there again architects and others in the construction industry of the area helped bring about needed change and saw the opportunities for growth in those inevitable changes. Again they contributed to growth.

The future has its goodly share of sometimes frightening changes. There are the rises and drops in the whole economy which Northeast Minnesota architects must share with the country as a whole, aggravated or lightened by the peculiarities of their particular region. There is the growing menace to environment of pollution, every kind of it, and architects, as guardians of man's environment, must take a major part in solutions to be worked out.

Location of this part of the state has created some special changes to be reckoned with by architects. Conservation of a famous forest area in connection with the possible creation of the Voyageurs National Forest, tourism created by this unique outdoors and the delicate balance of wilderness and industrialization potentials for optimum good of the residents of the area are typical. Growth of the area as the Head of the Lakes seaport region opens new horizons.

It is obvious the changes will continue to be many for our friends in Northeastern Minnesota. It has been obvious they have been equal to those of the past. So, much success to them in the future—perhaps their successes can help show the way for us, for all of us!

SLAYTON TO SUCCEED SCHEICK IN AIA

William L. Slayton, president of Urban America, Inc., has been appointed executive vice-president of the American Institute of Architects by its Board of Directors to succeed William H. Scheick, FAIA. Mr. Slayton will move to the AIA position by the end of the year, according to an announcement by Rex W. Allen, FAIA, AIA president. Mr. Scheick, executive director since 1961, will remain with AIA on a special assignment basis.

"Bill Slayton will bring to his new job extensive experience and involvement in the nation's urban problems," Mr. Allen said. "He will use this background to organize and direct the growing number of Institute activities related to the urban scene. On the local, state and national levels AIA has become increasingly involved in public and social issues. As executive vice-president, Bill Slayton will give added impetus and direction to AIA programs directed toward broader concepts and a higher level of environmental design, as well as expansion of professional development.

"Bill Scheick, as executive director for nearly a decade, has seen the AIA through a period of

tremendous change. His effective guidance of the organization during this period of rapid growth has helped make it possible for the architectural profession to move into a new era."

Mr. Allen noted that Mr. Slayton will be the first non-architect since 1949 to serve as executive staff director of AIA. He said this fact symbolizes a broadening of Institute programs, which in the past have been primarily directed toward improvement of the professional performance of architects.

"AIA's new broader policy will continue to stress the architects' expanding role in the creative process which will realize the highest human goals for the physical environment," Mr. Allen said. "Achievement of these goals demands equal stress by the AIA for its responsible involvement in areas which shape the physical environment and influence the creative process—the human and physical sciences, economics, politics, and public education. National developments in these areas extend into the realm of public policy and Mr. Slayton's implementation of AIA's broader objectives will take architects more effectively into the processes of public decision-making."



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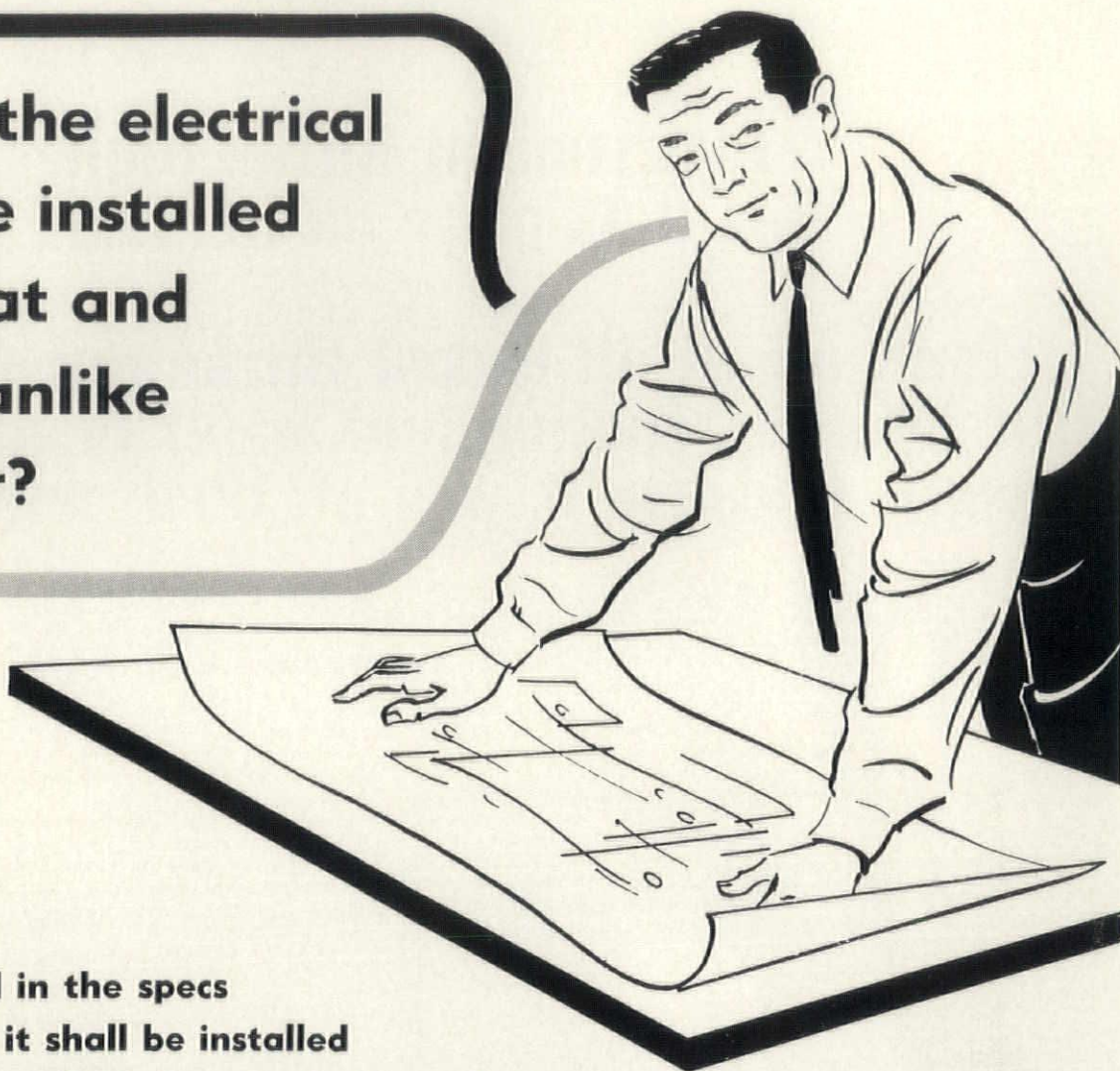
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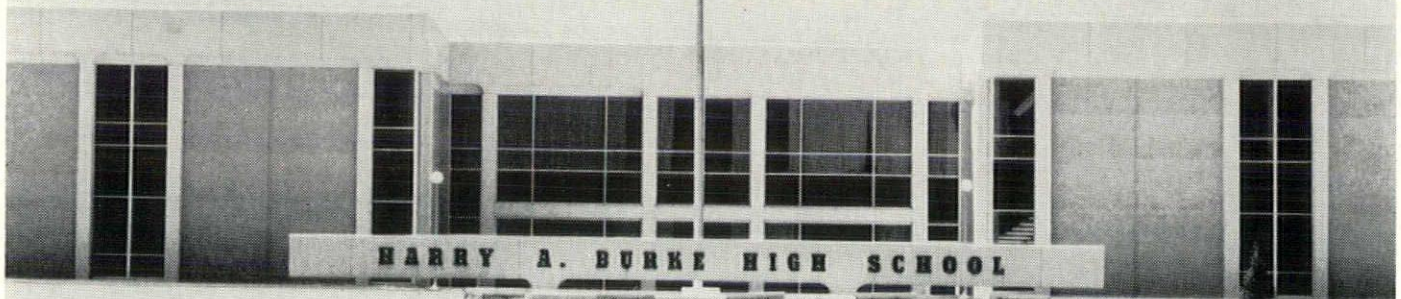
And note, too, that "last year" does not mean 180 days—at Burke High it means 274! This is an abnormally high-use facility—for meetings, athletic tournaments, community functions and private rentals—in addition to six day weeks, 11 months school use. You can be sure Burke High in Omaha is glad it has gas energy!

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istration numbering 100 or more. Divide the total gas bill by this number of occupants and you come up with a remarkably low cost per person per year of \$5.37!

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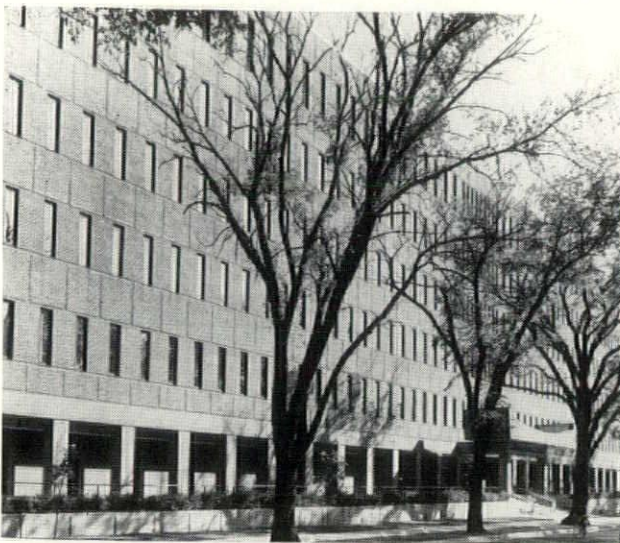
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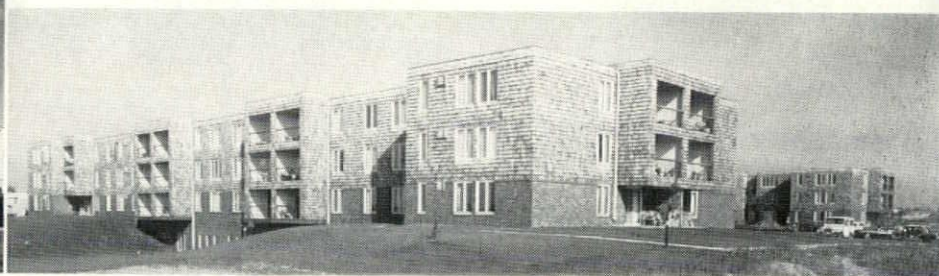
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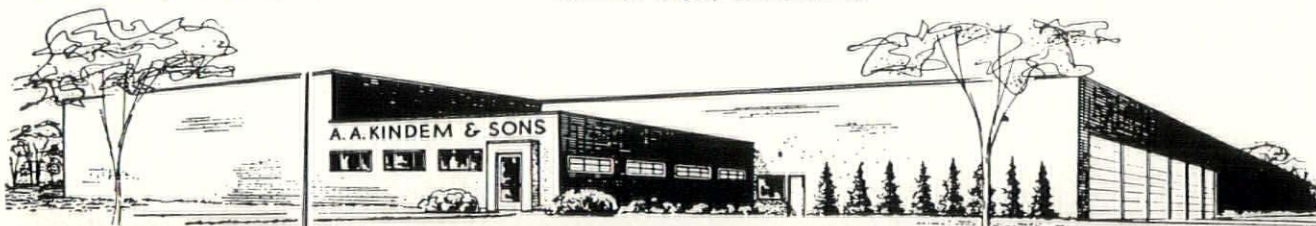
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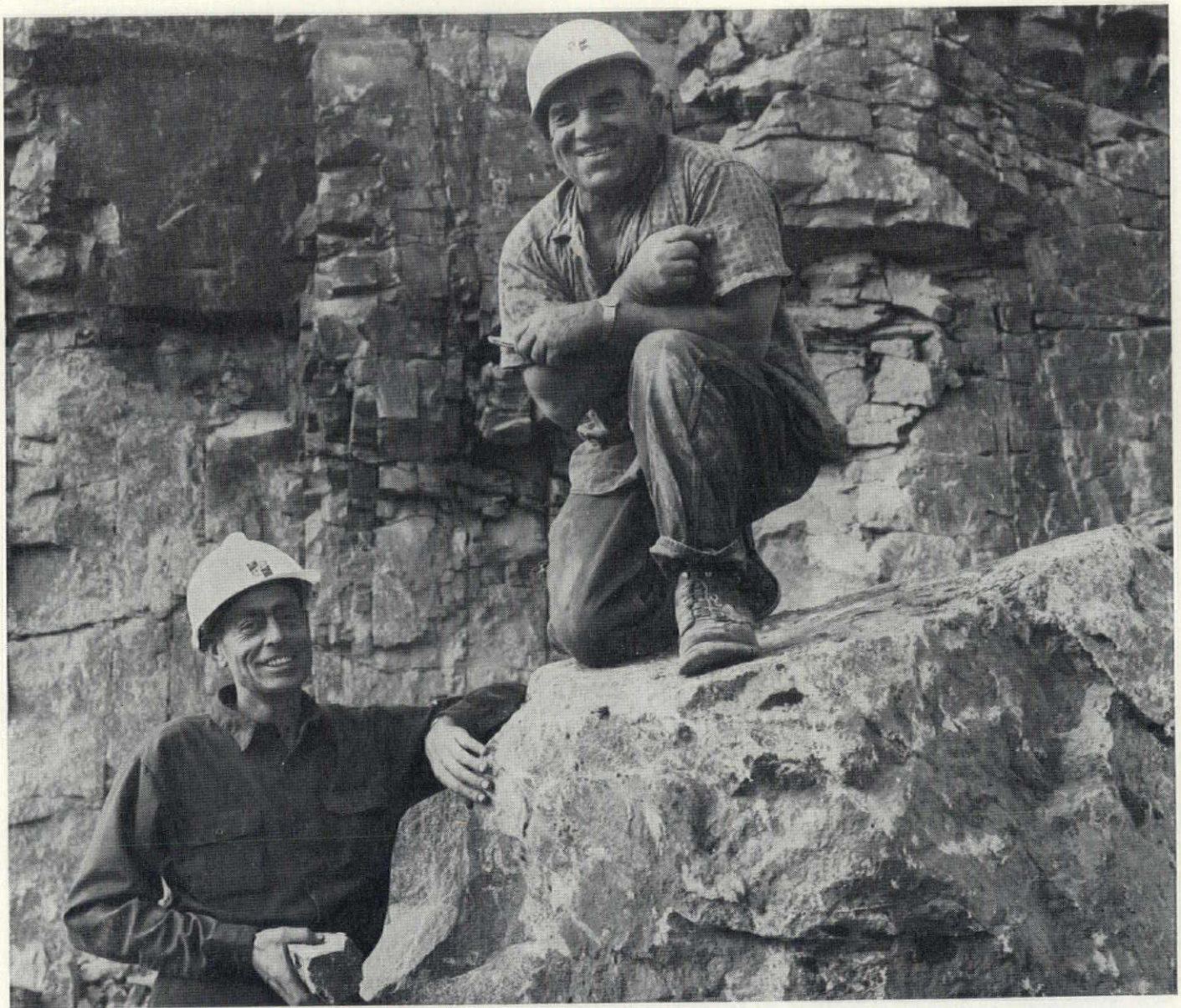
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Contractor: Kingbay Construction Co.



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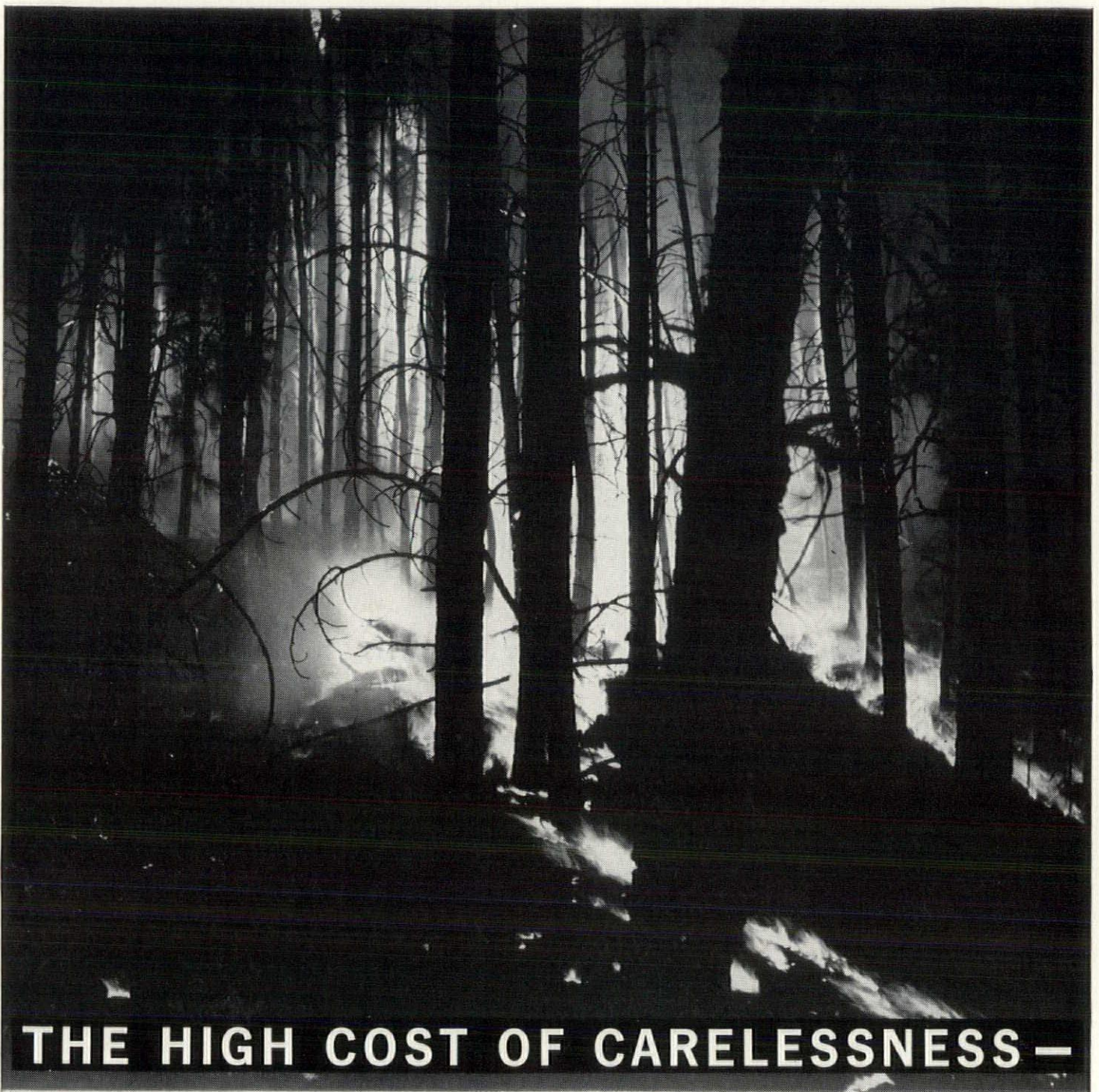
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INVOLVEMENT

MINNESOTA SOCIETY OF ARCHITECTS 1969 CONVENTION ST. PAUL HILTON NOVEMBER 5, 6, 7

THURSDAY

NOVEMBER 6

10:00 - 11:00 A.M.

MSA BUSINESS SESSION

12:30 - 2:00 P.M.

LUNCHEON SPEAKER

HUBERT H. HUMPHREY

3:00 - 5:00 P.M.

FIRST SESSION

PANEL DISCUSSION

NEAL B. MITCHELL

TAYLOR CULVER

JOHN J. OROFINO

HUD REPRESENTATIVE

AFTERNOON WOMEN'S TEA

GOVERNOR'S MANSION

5:00 - 6:30 P.M.

EVENING COCKTAILS and BUFFET

IN EXHIBIT AREA

6:30 - 8:30 P.M.

EVENING CONTINUATION

OF PANEL DISCUSSION

FRIDAY

NOVEMBER 7

9:30 - 11:00 A.M.

MSA BUSINESS SESSION

12:30 - 3:00 P.M.

LUNCHEON SPEAKER

STEWART L. UDALL

6:30 - 7:30 P.M.

PRESIDENT'S RECEPTION

7:30 - 12:30 P.M.

AWARDS BANQUET AND DANCE

INVOLVEMENT

MINNESOTA SOCIETY OF ARCHITECTS 1969 CONVENTION ST. PAUL HILTON NOVEMBER 5, 6, 7

INVOLVEMENT today is not just an activist's slogan. It does not belong just to the students, the blacks, the clergy, the poor—

INVOLVEMENT means life now! The government, the church, the school, the theater, the arts and the family.

INVOLVEMENT To give sharper focus to the architects' involvement is therefore the aim of this convention.

THE THEME Because the great problems facing our society are the architects' problems.

Because if an architect's work is to be meaningful, it must occur in the context of society's needs.

Because if an architect's work is to be meaningful, it must help solve the crises confronting our society.

SPEAKERS The speakers are all men deeply involved and committed.

Francis D. Lethbridge, the keynote speaker, a partner in the firm of Keyes, Lethbridge & Condon, Washington, D. C., and Vice President of the National AIA, will speak directly to the theme. From his vantage point in Washington, he will talk about relevant AIA programs and policies and his own work in community planning and construction.

Hubert H. Humphrey, Professor and formerly Vice President of the United States, will address the convention about the problems, the cancers as he calls them, confronting us.

Stewart L. Udall, Chairman of the Board of the overview group, and former Secretary of the Interior, will tell of the Overview group which "dedicates itself to the kind of planning—and more important, follow-through by social, economic, and political implementation—required to produce and sustain a better habitat for man."

INVOLVEMENT

MINNESOTA SOCIETY OF ARCHITECTS

1969 CONVENTION

ST. PAUL HILTON

NOVEMBER 5, 6, 7

Neal B. Mitchell, a systems engineer from Boston, Mass., and developer of the Mitchell system of modular construction. Mitchell is also a professor at the Harvard Graduate School of Design and has been a consultant to industry on building systems.

Philip Johnson, distinguished architect, critic, historian and, above all, an extremely articulate spokesman for the profession today.

Taylor Culver, President of the Association of Student Chapters of the AIA and a recent architectural graduate of Howard University. Culver played a prominent part in this year's National AIA Convention in Chicago.

John J. Orofino, an architect from Washington, D. C., will bring first hand comments on his involvement in the rehabilitation and development of low income housing in Washington, D. C.

Representatives from large industries, such as **Aerojet General, General Electric and Jones and Laughlin**, will discuss "Industrialization in Architecture" and their relationship and work with the architectural profession. These presentations should give insight into the type of proposals recently submitted to the Department of Housing and Urban Development (HUD) under "Operation Breakthrough."

In order to enable the audience and the panelists to freely exchange ideas and make the discussion more rewarding, the Thursday evening session will be open ended and may last as long as is warranted at the time.

Slides from all the 114 submissions to the 1969 MSA awards program will be shown, giving the membership a chance to see representative current architecture in Minnesota.

The seven award winners chosen by the jury consisting of Philip Johnson, Ulrich Franzen, and Edward L. Barnes will be on display. Slides will also be presented of the 1969 National AIA Design Award winning projects.

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American Linen Supply Company

American Seating Company

American Tube & Controls

Anchor Block Company

Andersen Windows

Anderson-Ladd, Inc.

Apollo Sales

Architectural Metal Association
of Minnesota

Architectural Woodwork Institute
Minnesota Chapter

Armco Steel Corporation

The Babcock Company

Bartley Sales Co., Inc.

Bentonize of Minnesota

Bladholm Bros.

BMD&R Lighting

Brock White Company

Building Products, Inc.

The Cambridge Tile Manufactur-
ing Company

Rollin B. Child, Inc.

Cole-Sewall Engineering Company

Cold Spring Granite Co.

Columbia Industries, Inc.

CONPRO, Inc.

ConTech, Inc.

Cronstroms Manufacturing, Inc.

Daytons Contract Division

Design Products, Inc.

DeVAC

Dormond Industries Ltd.

D. R. Dunham, Inc.

Dur-O-Wal of Minnesota, Inc.

Edwards Sales

Executone Systems of St. Paul,
Inc.

Chas. M. Freidheim Company

H. B. Fuller Co.

Gabbert's Business Interiors

General Coatings Inc.

General Office Products

Georgia-Pacific Corporation

Gillis Quarries Ltd.

Glenmar Company

Glenway Supply Ltd.

The Glidden-Durkee Division of
S.C.M.

Goodwin Companies

Gopher Stone Company

Grams Incorporated

Haldeman-Homme, Inc.

W. L. Hall Company

Hauenstein & Burmeister, Inc.

Hebron Brick Company

Holland Plastics Company

Insulation Sales Co.

Bart Jordano, Inc.

Kawneer Company, Inc.

Lake Street Industries, Inc.

Libbey-Owens-Ford Glass
Company

MacArthur Company

Mahin-Walz, Inc.

Manitoba Export Co.

Howard B. Marks Company

Marvin Windows

Meloche Sales Company

The Miller Company

Minnesota Brick & Tile Company

Minnesota Conference NECA

Minnesota Lathing & Plastering
Bureau

Minnesota Natural Gas Co.

Mohawk Carpets

Molin Concrete Products
Company

NADCO Corp.

Neidhoefer & Company

Neuman Millwork Ltd.

Curran V. Nielson Company, Inc.

North Central Lightweight

Aggregate Company

Northern Natural Gas Company

Northern States Power Company

Ochs Brick & Tile Company

Pacific Mutual Door Co.

The Charles Parker Company

Patek Wallcovering

Pefco Inc.

Pella Products, Inc.

PPG Industries, Inc.

Rubble Stone Company, Inc.

Rubble Tile Distributors

Roto Swing Door Company, Inc.

S. A. Design Ltd.

Saewert Corporation

St. Charles Kitchen of Minnesota

St. Paul Book & Stationery
Company

St. Paul Piping Industry

Sanford Associates, Inc.

Snow-Larson, Inc.

Spancrete Midwest Company

Sperry Office Furniture Company

Structural Wood Sales Company

Symons Manufacturing Company

Titanaloy—M & H Zinc

Trussbilt

Twin City Tile & Marble Company

United States Plywood

Valspar Paint

Vincent Brass & Aluminum
Company

Warners Industrial Supplies

Washington National Insurance

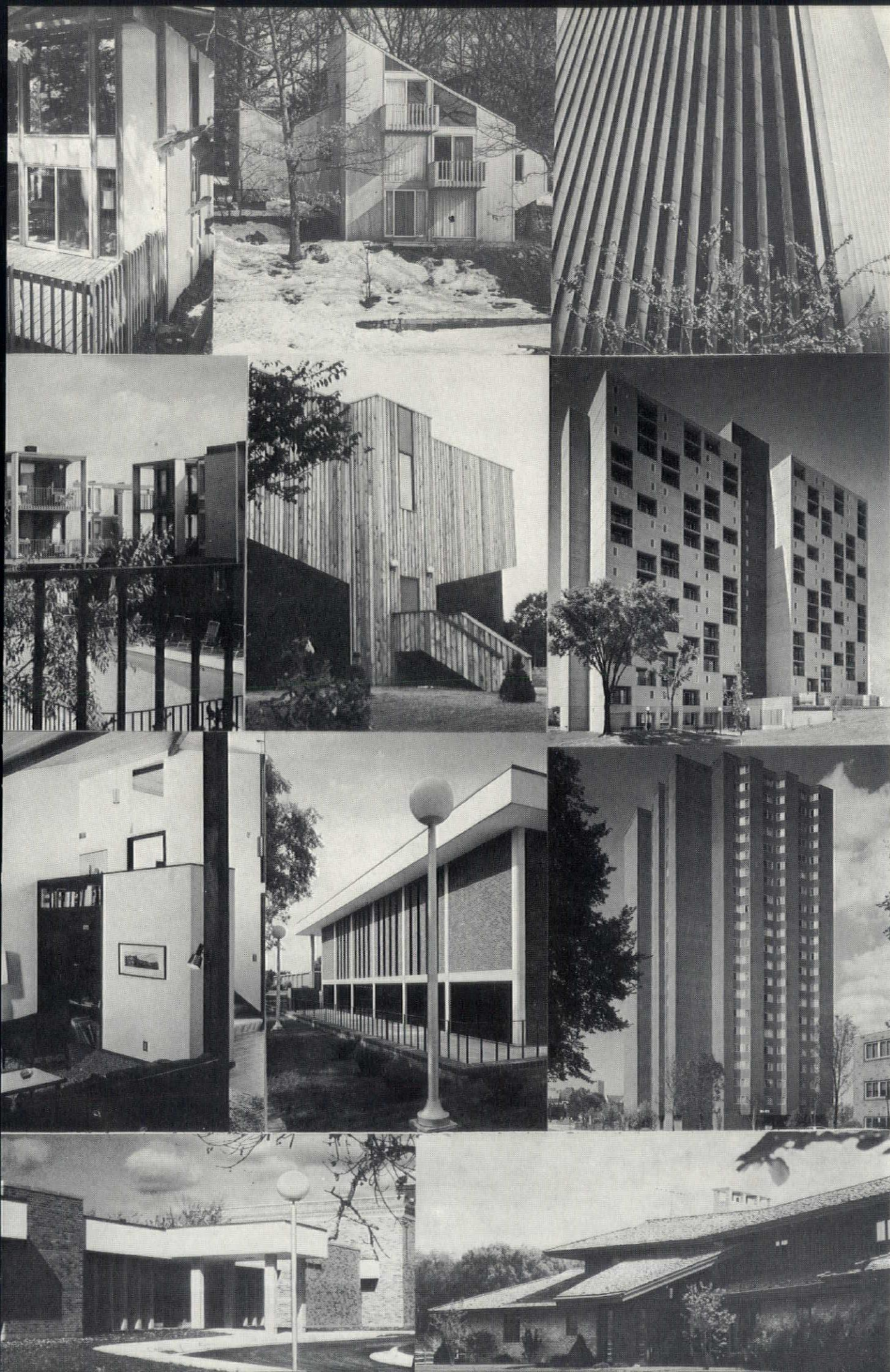
Weyerhaeuser Company

Youngblood Lumber Company

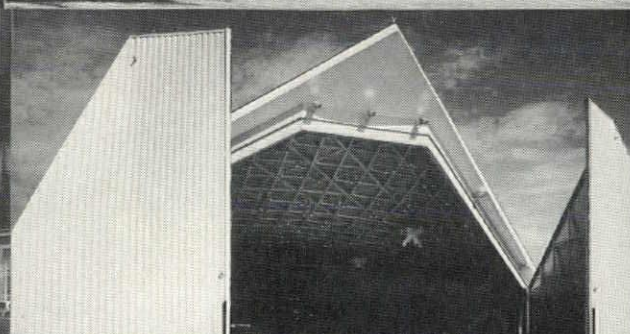
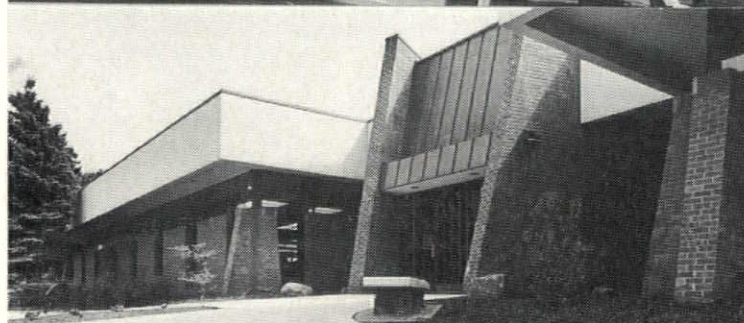
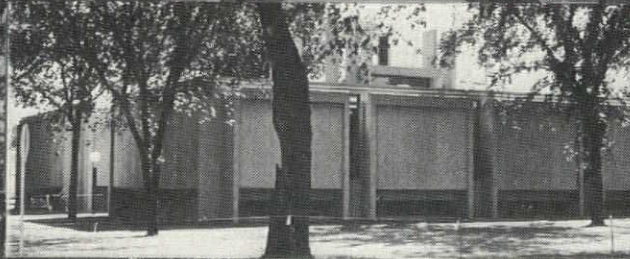
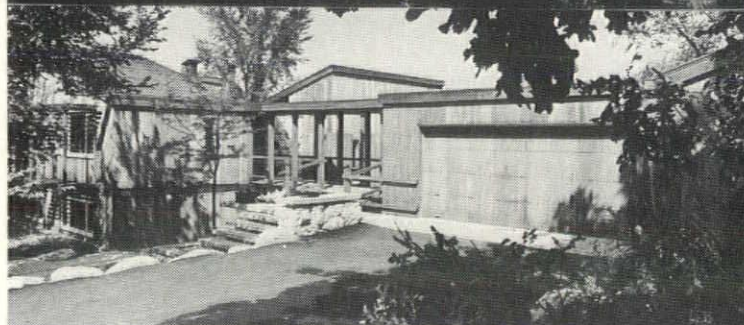
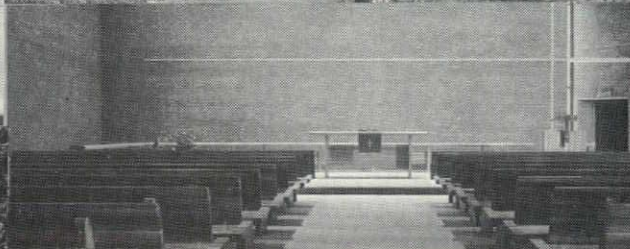
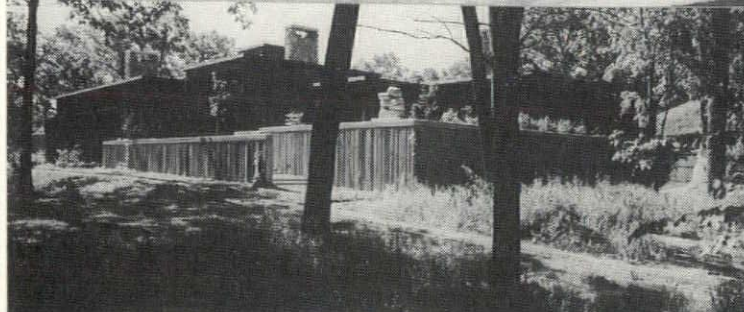
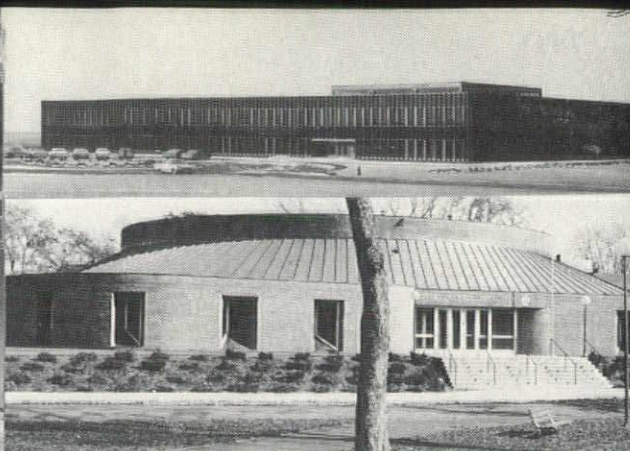
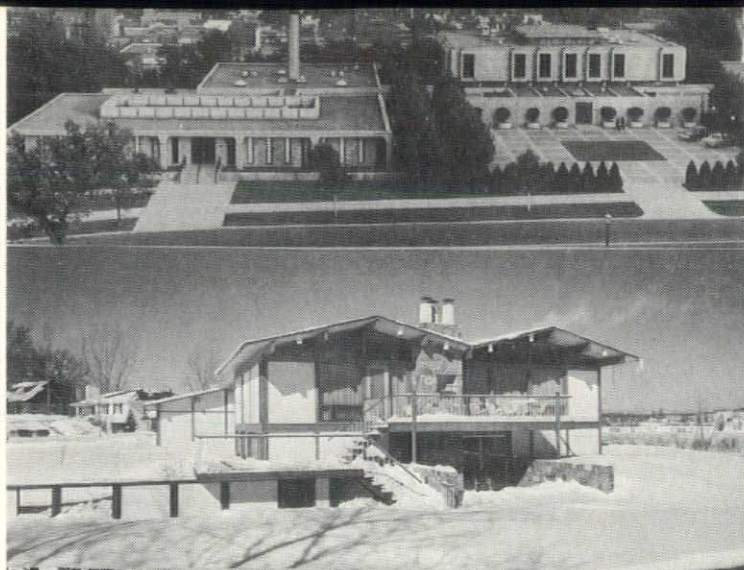
Zenith Glazed Products

Zonolite—Div. of W. R. Grace &
Company

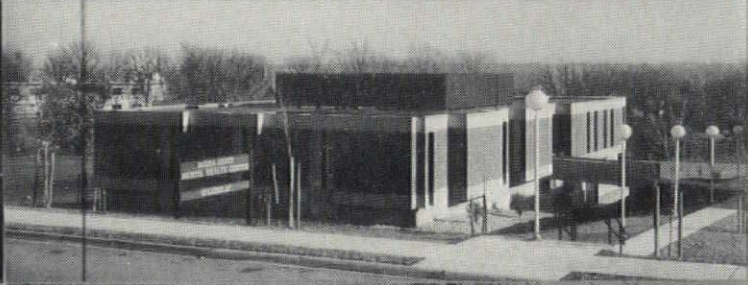
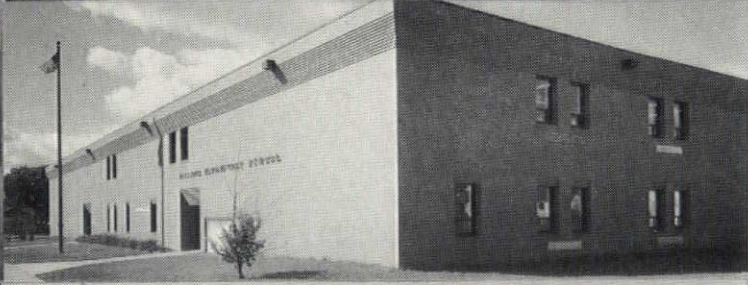
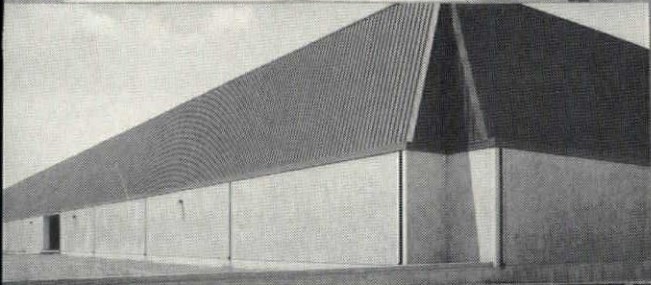
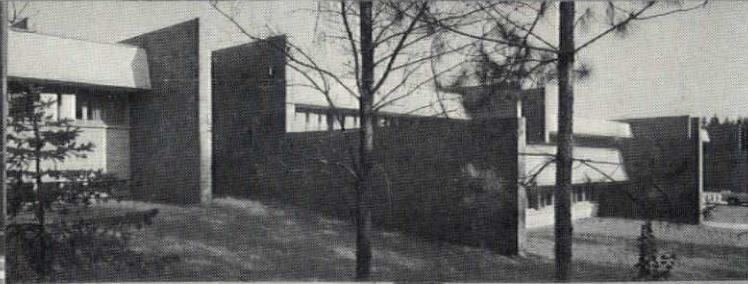
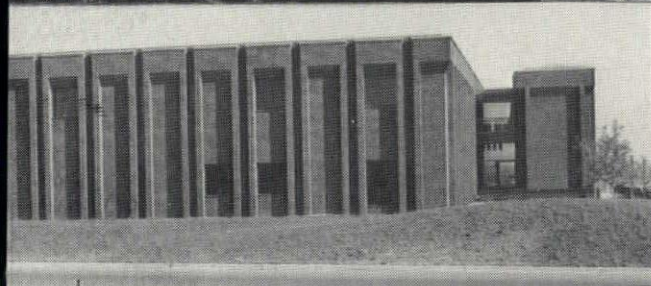
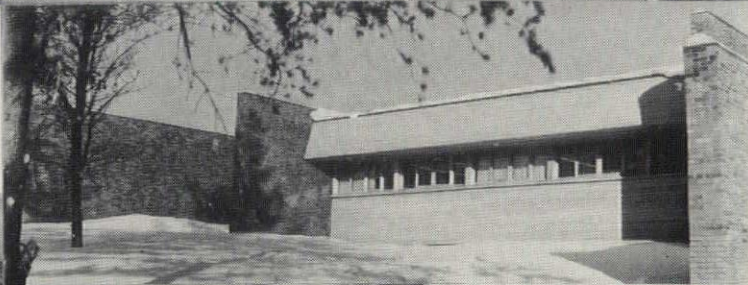
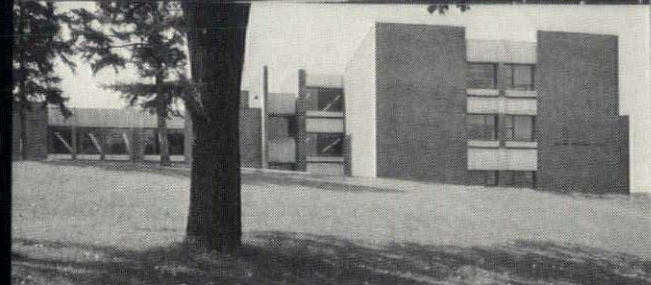
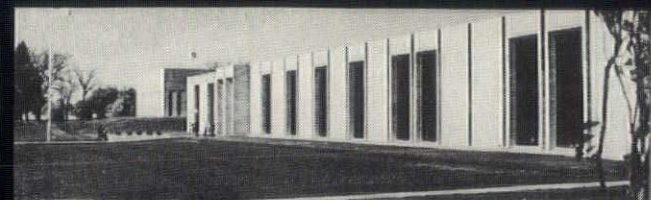
HONOR AWARDS ENTRIES



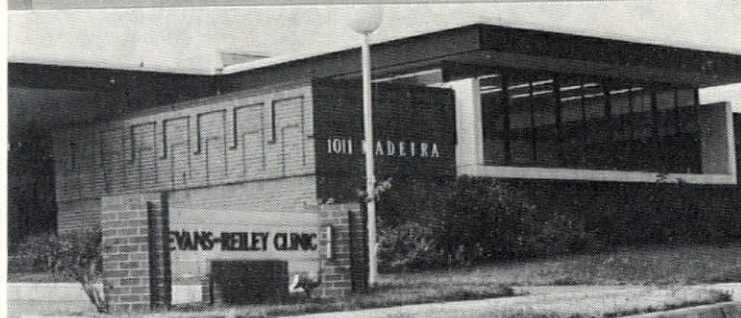
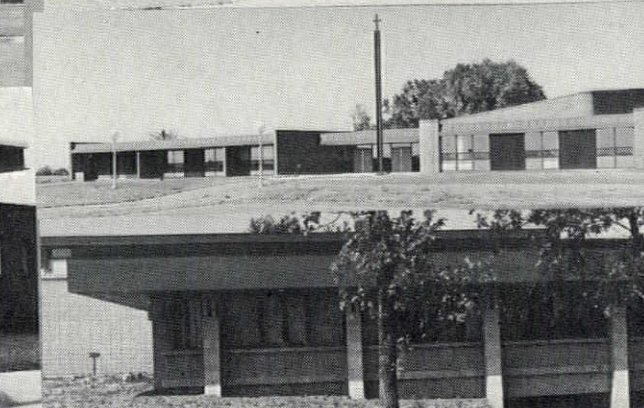
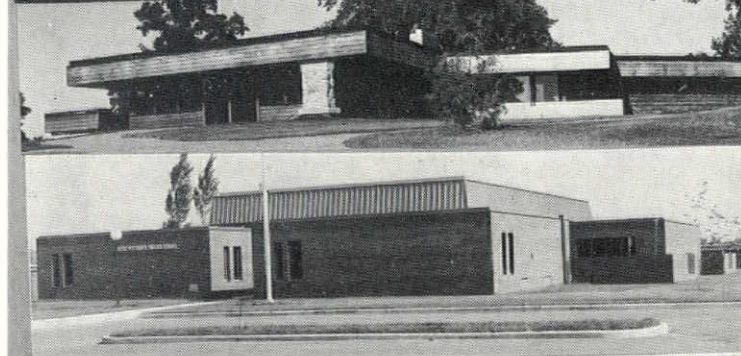
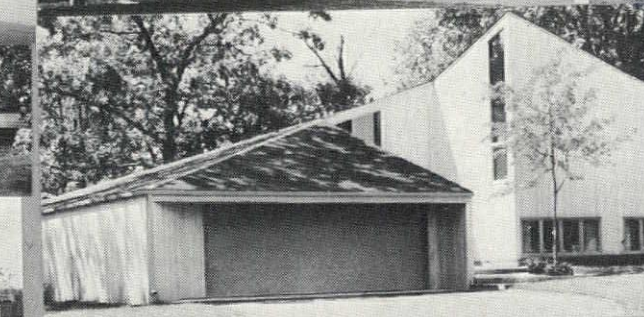
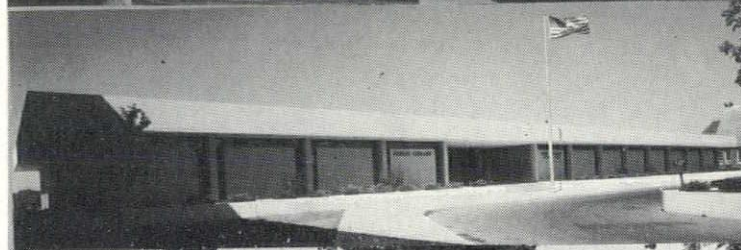
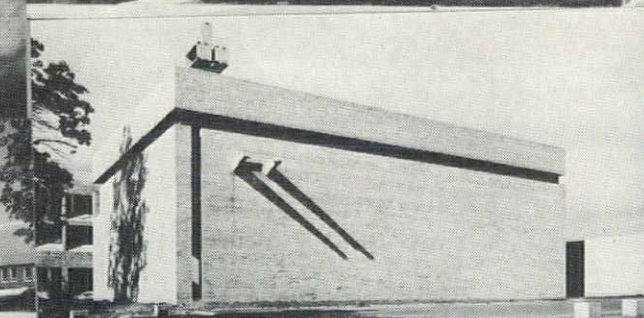
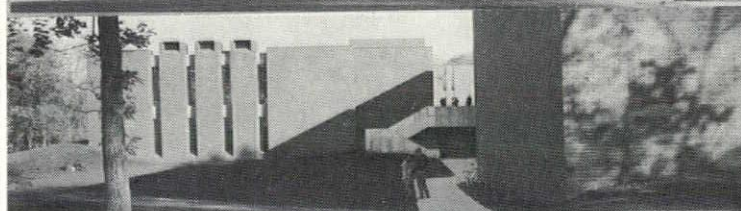
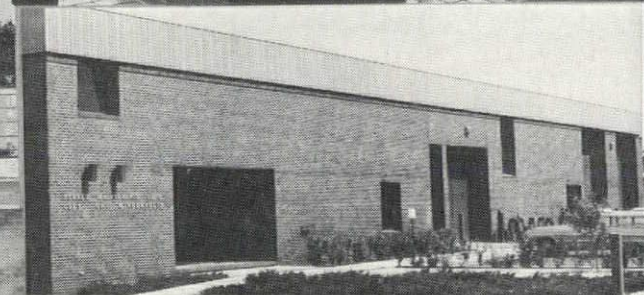
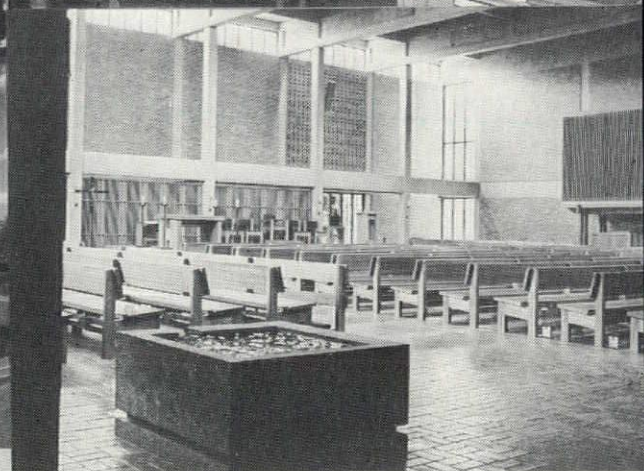
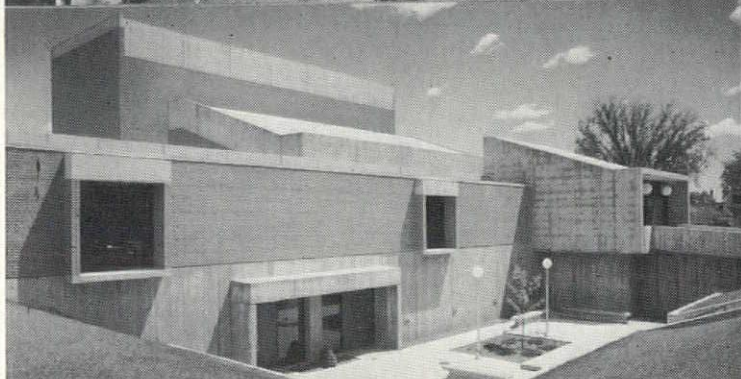
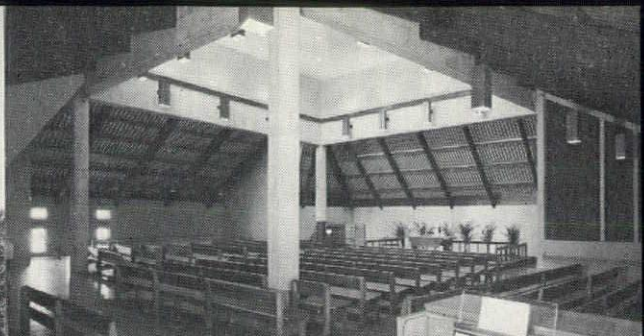
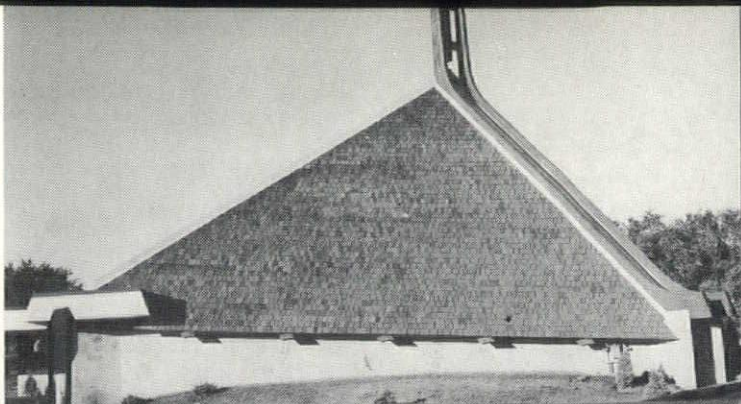
HONOR AWARDS ENTRIES



HONOR AWARDS ENTRIES

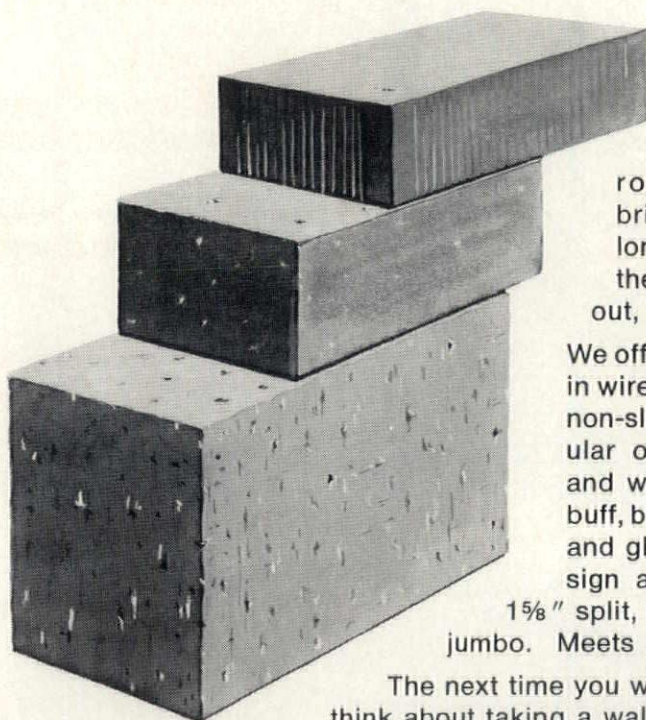


HONOR AWARDS ENTRIES



PAVERS

provide total design flexibility



Charm, quiet, relax, fun, stroll, falling leaves, solitude, spring time, romance. Paving brick often goes a long way to help set the mood - inside or out, floors or walls.

We offer these solid units in wire-cut, vertical fiber, non-slip surface in modular or standard length and width. Colors: red, buff, brown, gray, flashed and glazed to fit any design application. Sizes:

1 $\frac{5}{8}$ " split, 2 $\frac{1}{4}$ " regular, 4 $\frac{1}{2}$ " jumbo. Meets ASTM C-410.

The next time you want to set a mood, think about taking a walk on brick.



TWIN CITIES SALES DIVISION

268 S. Plaza Bldg., Gamble Ctr., Minneapolis, Minn.





VERSATILITY IN METALS

- ★ USE ASSOCIATION FABRICATORS—QUALITY ASSURED
- ★ TECHNICAL ASSISTANCE—926-4393



ARCHITECTURAL METAL ASSOCIATION of MINNESOTA

4725 Excelsior Blvd.

926-4393

Minneapolis, Minn. 55416

NORTHWEST ARCHITECT

SHIELY KEYSTONE BASE CASE REPORT

No. 37 Heavy Industrial Terminal

JOB DESCRIPTION:

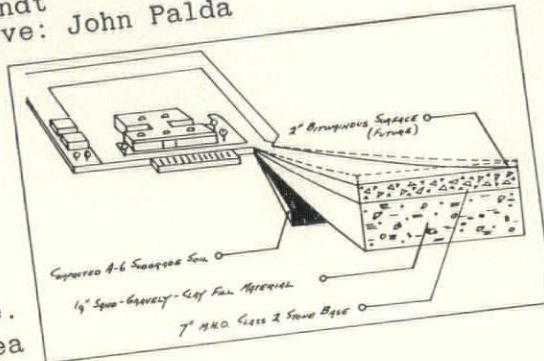
Parking lot, access roads, maintenance area, for new office and maintenance facilities being built by Acton Construction, Hugo, Minnesota, near 35E. Acton, which designs and constructs sewage treatment facilities has plants located throughout the United States.

PERSONNEL:

Project Engineer: Joe Davis
Job Superintendent: Jerry Arendt
J. L. Shiely Co. Representative: John Palda

DESIGN CONSIDERATIONS:

- Surface must withstand frequent and heavy use by heavy equipment.
- Presence of extremely poor subgrade soil—AASHOA-6, a heavy clay material that varied considerably in different areas of the site.
- Must have access to the area during construction without the cost of a bituminous surface course.
- Must withstand severe freeze-thaw cycles of Minnesota weather.
- Must remain stable despite heavy rains.



SPECIFICATION: Class 2 Aggregate Base
APPLY OVER THE COMPACTED SUBGRADE, A CRUSHED AGGREGATE BASE CONFORMING TO THE 1968 MINNESOTA STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, SECTION 3138.1, CLASS 2 AGGREGATE AND PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 2211.

RATIONAL:

Shiely Keystone base was specified primarily because of the following factors.

- COST.** Even though crushed stone was more expensive per ton than class 4 and 5 sand and gravel, a thinner course was used for a lower overall cost.
- EFFICIENCY.** It was possible to achieve specification with fewer passes of the roller and less water.
- HANDLING.** Through use of crushed stone, less material was used and thereby less material was transported and handled.
- CONSISTENCY.** Being a manufactured product, consistency of material was assured.
- DRAINAGE.** Access to job was maintained throughout a period of heavy rain because of excellent drainage. Site remained high and dry throughout.



J. L. SHIELY CO.

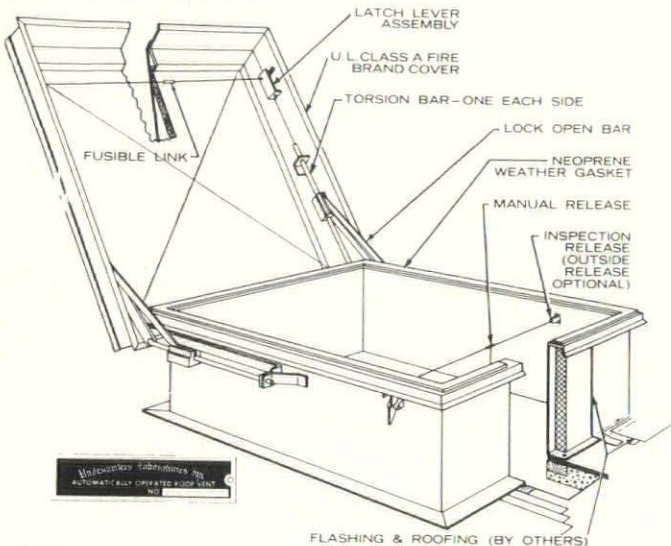
Quality Commercial Aggregates
Ready Mixed Concrete
1101 Snelling Ave. N. Phone 646-8601
St. Paul, Minnesota 55108

FIRE VENTING

WITH NEW WASCO PYROVENT

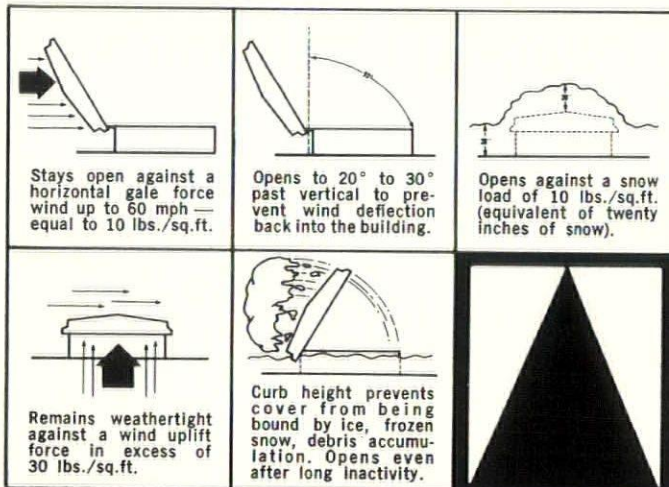
NOW, FOR THE FIRST TIME . . .

AN UNDERWRITERS' LABORATORIES APPROVED FIRE-VENTING UNIT THAT IS GUARANTEED TO OPEN . . . EVEN UNDER MORE THAN A FOOT-AND-A-HALF OF SNOW.



CONSTRUCTION FEATURES:

- All aluminum, insulated cover.
- All aluminum welded body, curb assemblies and hardware.
- Carbon steel torsion bars with a protective polyvinylchloride cover.
- Low silhouette . . . and clear, uncluttered well.
- Entire activating mechanism (except for fusible link) located under the curb, protected from weather, tampering and vandalism.
- Minimum well opening not less than 4 feet on any side (as recommended by most authorities).
- Minimum height from roof to bottom of vent cover is 12 inches.
- Optional: outside manual release and solenoid activated release.



For details, refer to Sweet's Architectural File (22a/w)

WITH VAN-PACKER GREASE DUCT SYSTEM

... WITHIN THE NEXT 24 HOURS
39 RESTAURANTS
WILL BE HIT BY FIRE! . . .

34% will be grease fires in cooking equipment, hoods, and ducts.

Reason is that nobody—virtually *nobody*—has a regular maintenance schedule for cleaning built-up grease and lint out of their cooking exhaust systems. The job's just too messy.

VAN-PACKER INTRODUCES ENTIRELY NEW KIND OF GREASE DUCT

You can't change the human nature that allows this shocking national statistic. So Van-Packer created an entirely new kind of ductwork. It is a grease duct system that is *built to withstand periodic fires!* No danger. No damage. A fire simply cleans out the flue.

TESTED BY BOSTON FIRE DEPARTMENT

In a Boston Fire Department test a grease fire raged for 40 minutes inside the new Van-Packer grease duct. Although the inside temperature soared to 2185°F, the outside temperature never exceeded 200°F. Seven tests were made, with similar results.

GREAT NEWS FOR THE DESIGN ENGINEER

After the Van-Packer system's amazing Boston performance, the National Fire Prevention Association was asked to modify their requirements. Now a design engineer can run his risers inside or out. He'll no longer have to build a 4-inch masonry shield. He won't have to place his ducts 18 feet from combustibles. There will no longer be a need to build in automatic fire extinguishers, or for cleanout doors every 20 feet.

LOWER FIRE INSURANCE COSTS

Penalties for improper kitchen ventilating systems can increase insurance premiums hundreds, even thousands of dollars, a year. Preliminary investigations indicate that the Van-Packer system can appreciably lower insurance premiums.

BUILDING? REMODELING? GET THE FACTS!

A Van-Packer grease duct system is the safest there is. Engineering design is a cinch. Assembly is fast, easy.

Distributed By

MAC ARTHUR COMPANY — 936 Raymond Ave., St. Paul — (612) 646-2773
See Us at Booths No. 130 & 131

14 Story High Rise



Housing for the Elderly
Minnesota Project #1-13

Owner: St. Paul Housing & Redevelopment Authority

Architect: Cavin & Page

Contractor: Adolfson & Peterson, Inc.

This building is the highest in the U. S. using brick bearing walls and pre-stressed concrete hollow core plank construction. Over 90,000 \square' of 6" \times 16" Flexicore plank is being used on this project, which is now on the 11th floor. Each floor contains approximately 7000 \square' of floor area and is being erected at the rate of one floor every 7 days. The erection of the floors is a continual process, as the bricklayers have an immediate deck to work from to start laying up the walls for the next story before the Flexicore erection is completed on the present one. This adds up to efficiency and speed in construction, which equals savings in the cost of the entire project. Next time think *FLEXICORE FIRST!*

Molin Concrete Products Co.
Since 1897

885 W. Minnehaha Ave.
St. Paul, Minn. 55104
488-2541

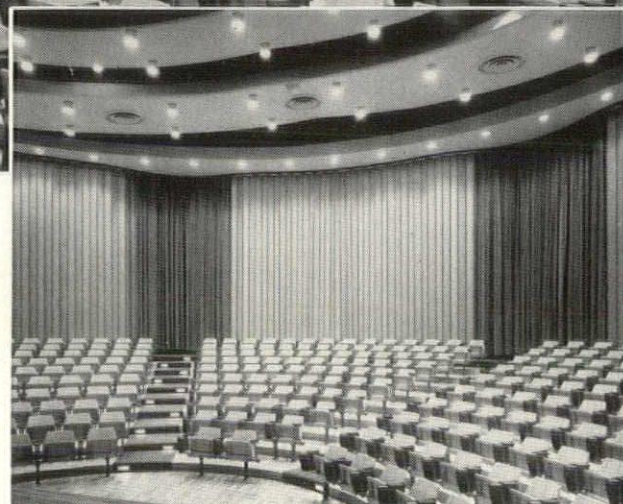


OAK GROVE JUNIOR HIGH — BLOOMINGTON
 ARCHITECT: THE CERNY ASSOCIATES, INC.
 CONTRACTOR: BOR-SON CONSTRUCTION, INC.

Auditorium-Lecture Hall Area . . . can be instantly changed
 in shape and size to provide *one, two, three or four*
 teaching stations!!

MODERNFOLD'S AUDIO-WALL

was used for the operable wall system.



STOP BY AND SEE THE VERY LATEST
 MODELS OF OUR *GRILLE COIL-WAL*
 AT THE A.I.A. CONVENTION
 BOOTHS 105 AND 116

Your number one source of folding partition and operable wall systems!

Phone:
 935-7759

MAHIN-WALZ, INC.

4309 Shady Oak Road
 Hopkins, Minnesota

NORTHWEST ARCHITECT

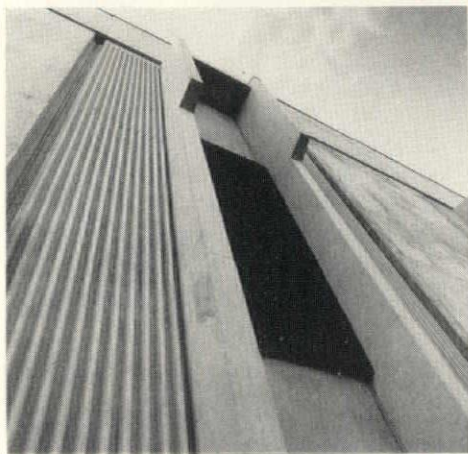
ELECTRIC MACHINERY MFG. COMPANY

ST. CLOUD, MINNESOTA

Engineer: Clark Engineering Company—Minneapolis, Minn.

Architect: Patch & Erickson, Inc.—Minneapolis, Minnesota

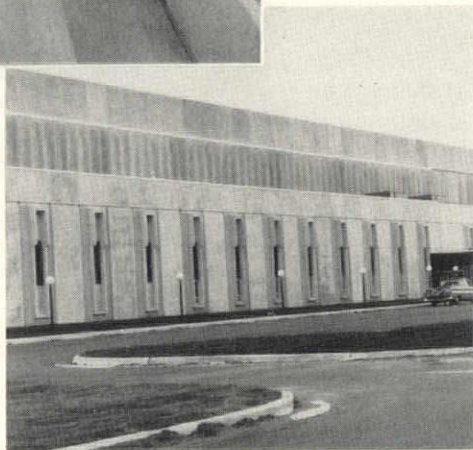
Contractor: D. L. Witcher, Inc.—Minneapolis, Minnesota



The 88' x 624' industrial area and 40' x 408' office area are framed in pre-stressed concrete panels.

8' x 24" x 45' insulated double tee wall panels frame the industrial area. Eight bolted clamp connectors secure each panel to the steel frame. Ties between interior and exterior concrete surfaces, separated by 2" styrofoam, received special treatment to allow for differential movement. 8' x 2½" x 10' flat facia panels handsomely finish the industrial area wall treatment.

East, West and South elevation double tee panels are removable and provide for future expansion. Wood nailers for flashing and metal fascia were treated and plant cast into wall panel units.



8' x 9" to 9½" x 27' vertically grooved, flat, insulated office panels are highlighted by 19' variable

depth, 1 piece shadow boxes which frame first and second floor windows. The top 6' of the office panel has a steel form finish complementing the industrial area facia.

Wells Concrete Products Company is proud to have participated in the construction of its industrial complex. May we offer our services and PCI certified plant facilities for your prestressed assignment.

**WELLS PRESTRESSED
CONCRETE PRODUCTS COMPANY**



WELLS, MINNESOTA 56097 PHONE AREA CODE 507-553-3139
ST. PAUL, MINN. PHONE: 455-5671

New Promise for the Northeast

By Louis R. Lundgren, AIA

President, Minnesota Society of Architects

Since the early French trappers first viewed the lakes and the forests and were impressed with the rare and awesome beauty of the Northeast it has been a mecca for people who want to share some solitude and communication with this beauty. With appropriate controls we trust this can always remain so.

Economic development of the Northeast, however, has been a series of spurts and valleys based primarily on the economic activities of single or nearly single industries.

The economic health of the region is again becoming strong, at least with the huge investments of the taconite industry. A stringent tax policy had to be promised by the State of Minnesota in order to encourage these industries to make their gigantic capital investments. It is obvious that this taxing policy will allow additional taxes in the future.

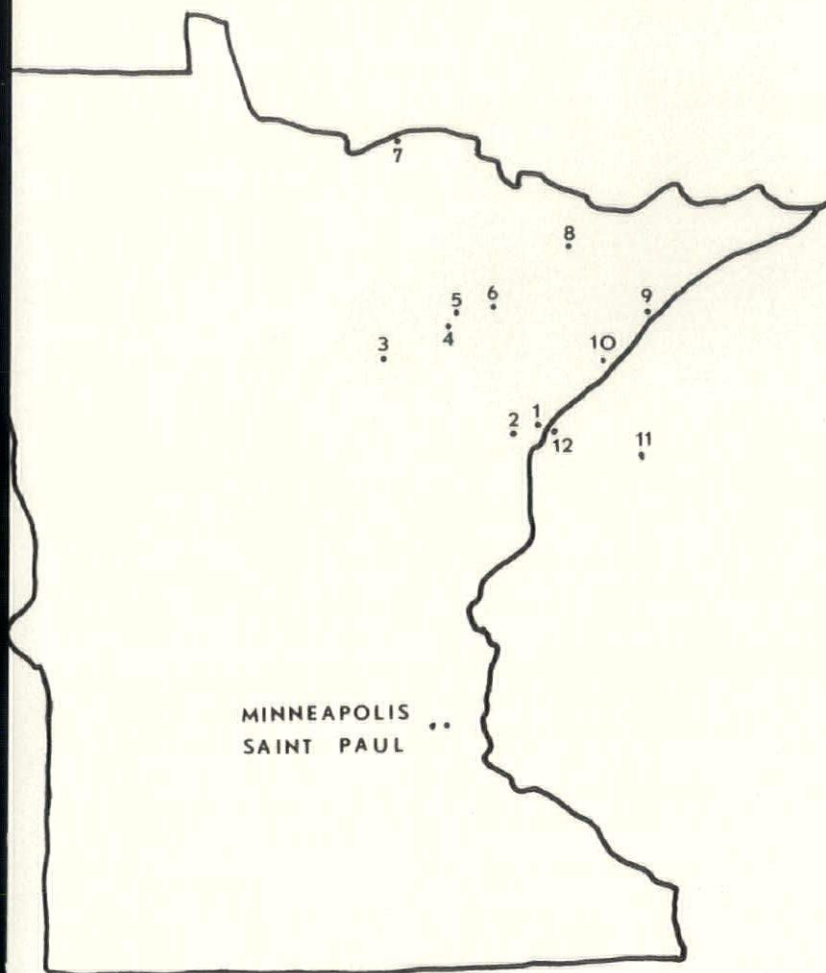
It is particularly pleasing that one of the Northeast's great citizens, Jeno Paulucci, has commissioned experts to study this very subject. His plan will determine, from the point of view of complete fairness to all parties, what can be raised additionally in terms of taxes paid by the taconite industry and how these monies can best be invested to further the economic development of the area.

A great plan is needed in order to stir the imagination of the entire citizenry, one which will encourage constancy in development. A review of this issue of the Northwest Architect will convince everyone that there is no shortage of able design talent in the area to aid in this development.

On behalf of all members of the Minnesota Society of Architects I congratulate the Northeast Chapter on its great undertaking and wish it every success in accomplishing the goals set forth.

ARCHITECTURE NORTHEAST

AND MINNESOTA



- Duluth
- Cloquet
- Grand Rapids
- Hibbing
- Chisholm
- Virginia
- International Falls
- Ely
- Silver Bay
- North Shore of Lake Superior
- Ashland, Wisconsin
- Superior, Wisconsin

Your architectural tour begins in the Duluth harbor. We will visit the City of Duluth and cities in northeastern Minnesota and examine buildings rating an architect's approval for their structure, function and aesthetic delight. At the end of our journey we will find ourselves back in the Duluth harbor whence we began.

On the pages that follow you will find numbers by the illustrations which correspond to the numbers assigned towns on the map as shown in the key here. This will enable you to relate the structure to the site.

As we approach the harbor the aerial bridge lifts, signifying the beginning of our tour.

This special feature on Northeastern Minnesota was prepared and designed by the publications committee of the **Northeast Chapter, American Institute of Architects**, Thomas J. Shefchik, chairman. The committee members were Raymond J. Blesener, Gerald W. Johnson, Michael Stehlin, Duane M. Stolpe, G. Kendal Sweetnam and Marinus Westerham.

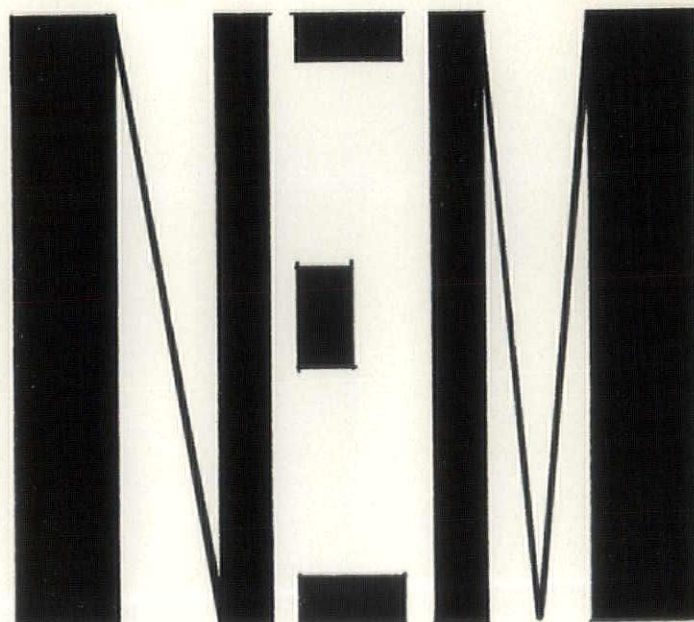
er photo by Michael Stehlin,
ture article editorial comments
Frank Young, Curator, St. Louis
nty Historical Society.

The history of Duluth and northeastern Minnesota dates back to the hardy French-Canadian voyageurs who came over Lake Superior in their large birch bark canoes and finally developed a route up the St. Louis and East Savanna rivers, across the six-mile Savanna Portage and down the west Savanna River to the Mississippi. With the fur trading came a type of timber structure for forts and trading posts, featuring simple log structures. Following the fur trading came the logging and lumbering industry, which led to the development of sawmills and papermills.

With the discovery of iron ore came the development of mining on the famous Iron Range of Minnesota. This created the need for underground mine structures and other unique steel structures.

Today, with the depletion of high grade iron ore in this area, has come the taconite industry. Legislation has been passed which guarantees equalization of taxes on taconite ore. With this development the basic economy of the area is assured for the next 100 years.

Duluth—with its tremendous harbor facilities on Lake Superior, including the iron ore docks, grain elevators, coal docks and now the Port Authority of Duluth, which links the whole area to the rest of the world via the St. Lawrence Seaway—is the hub through which industries import materials and export their products.





1. Aerial Bridge (1905)
Strategically located at the entry to the harbor, this structure is Duluth's distinctive landmark. The original bridge had a suspended car carrying passengers across the ship channel but in 1928 was replaced by a lift section. The bridge connects Duluth proper to Minnesota Point.

2. Duluth-Superior Bridge (1961)

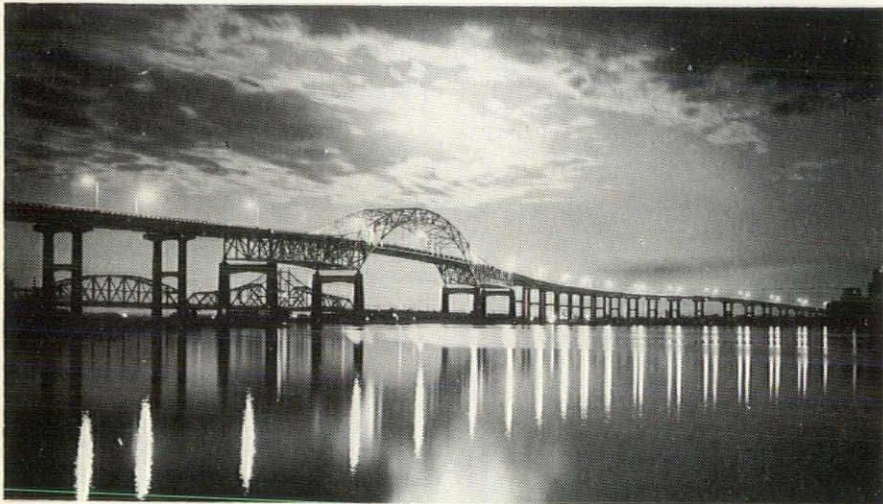
The huge steel and concrete span, with approaches about two miles in length. The interstate bridge connects Minnesota and Wisconsin across St. Louis Bay.

3. Duluth Ore Docks

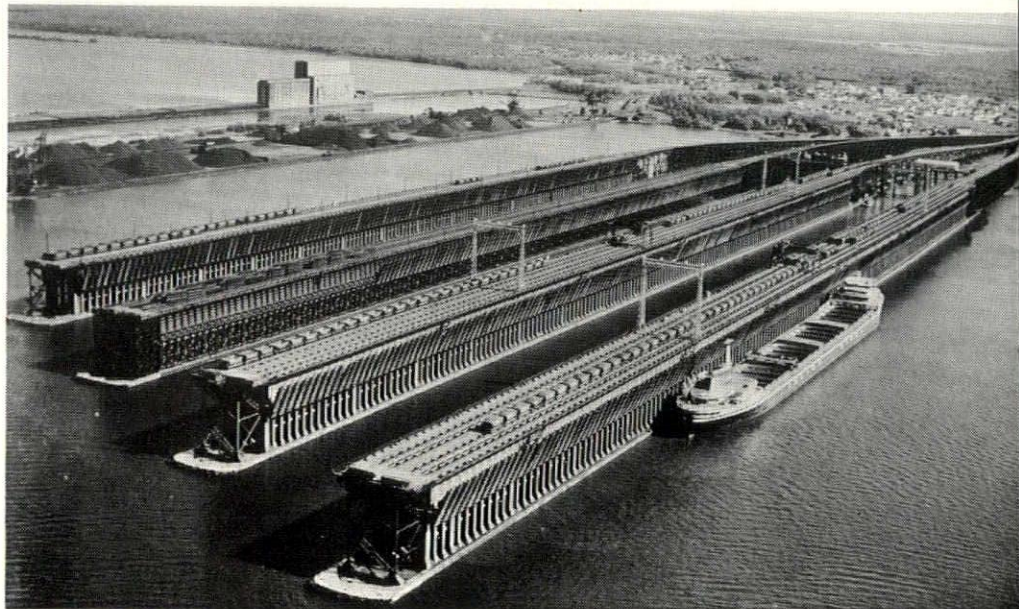
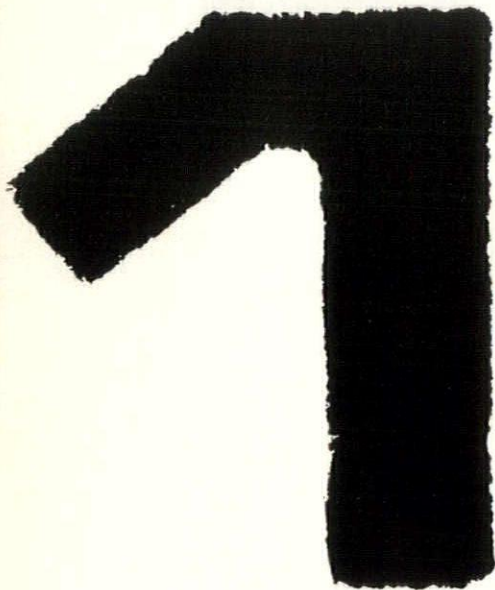
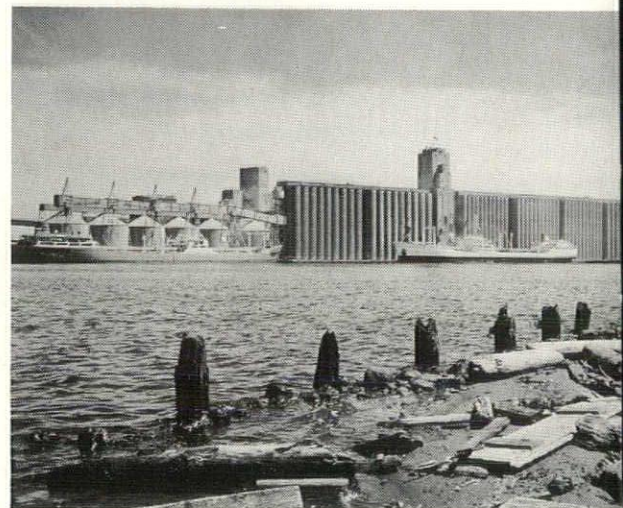
This concrete and steel structure is the land termination point for iron ore from northern Minnesota. From here, the ore is loaded into ore boats and sent down the Great Lakes to steel mills.

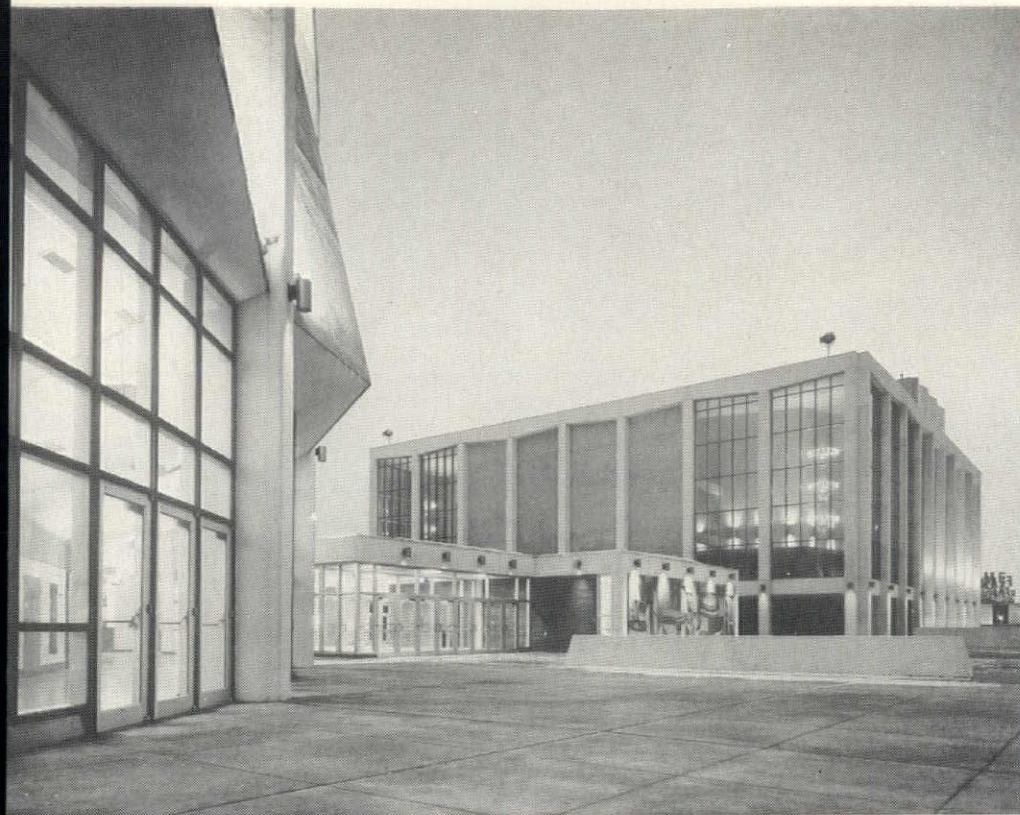
4. Grain Elevators, Duluth Superior Harbor

These concrete grain storage bins are the largest in the world. Grain is brought to them by trucks and shipped by ships through the world via the St. Lawrence Seaway.

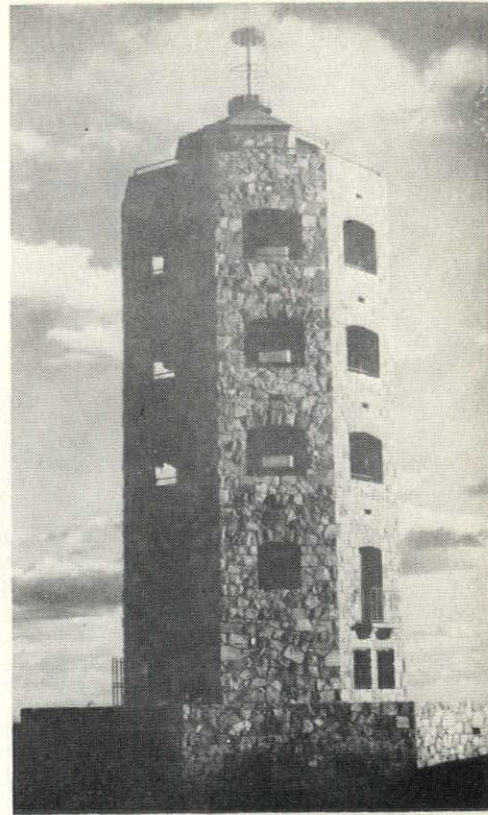


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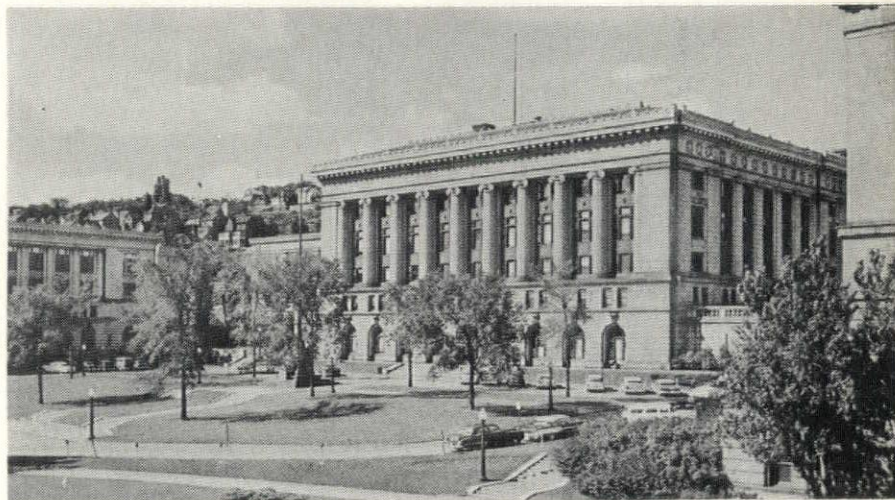
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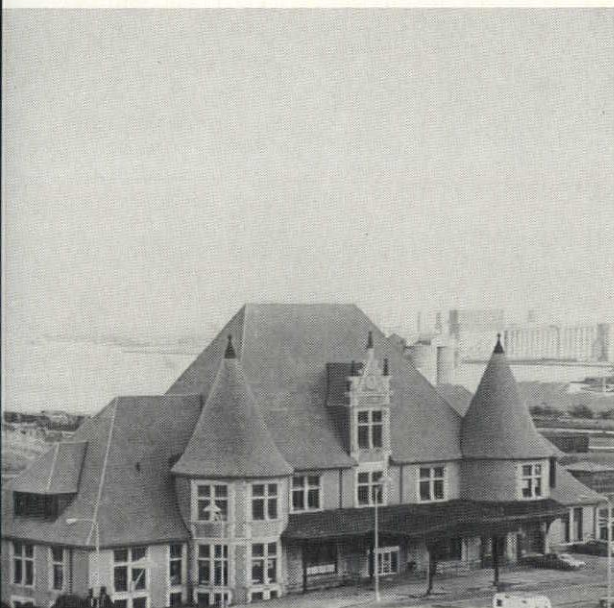
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9

5. Duluth Arena Auditorium (1966)
Northern Minnesota's largest cultural and sport center. A collaborative effort of the architects of Duluth.

6. Enger Tower—A. R. Melander, Architect, Duluth

Built in 1938 as a memorial to the late B. J. Enger. Designed in the Nordic style as characterized by the native stone work, it rises 531 feet above Lake Superior.

7. Soo Line Depot (1911)—C. E. Bell, Tyre and Coburn, Architects, Boston, Mass.

This depot has become a Minnesota landmark and exhibits the architectural confusion of the period by featuring Classical, Roman and Georgian eclecticism.

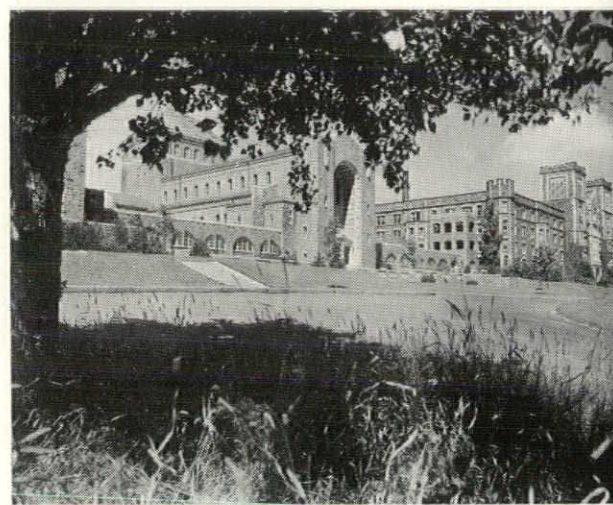
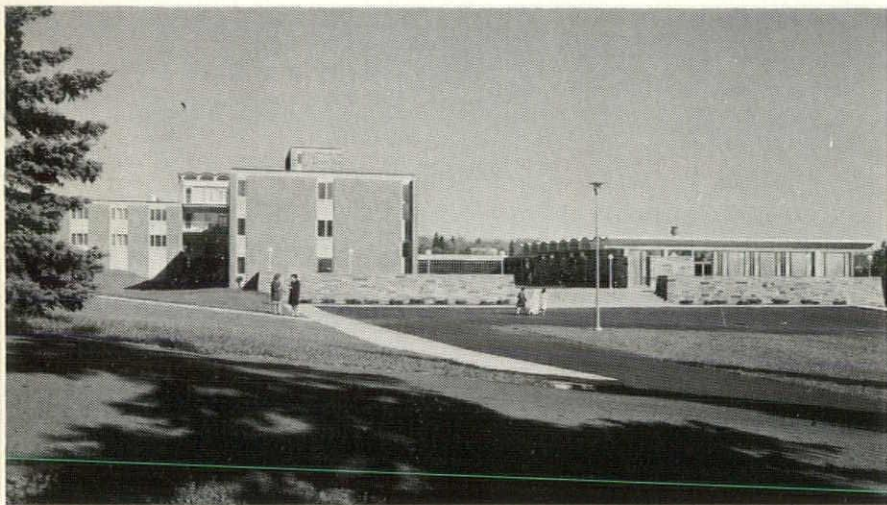
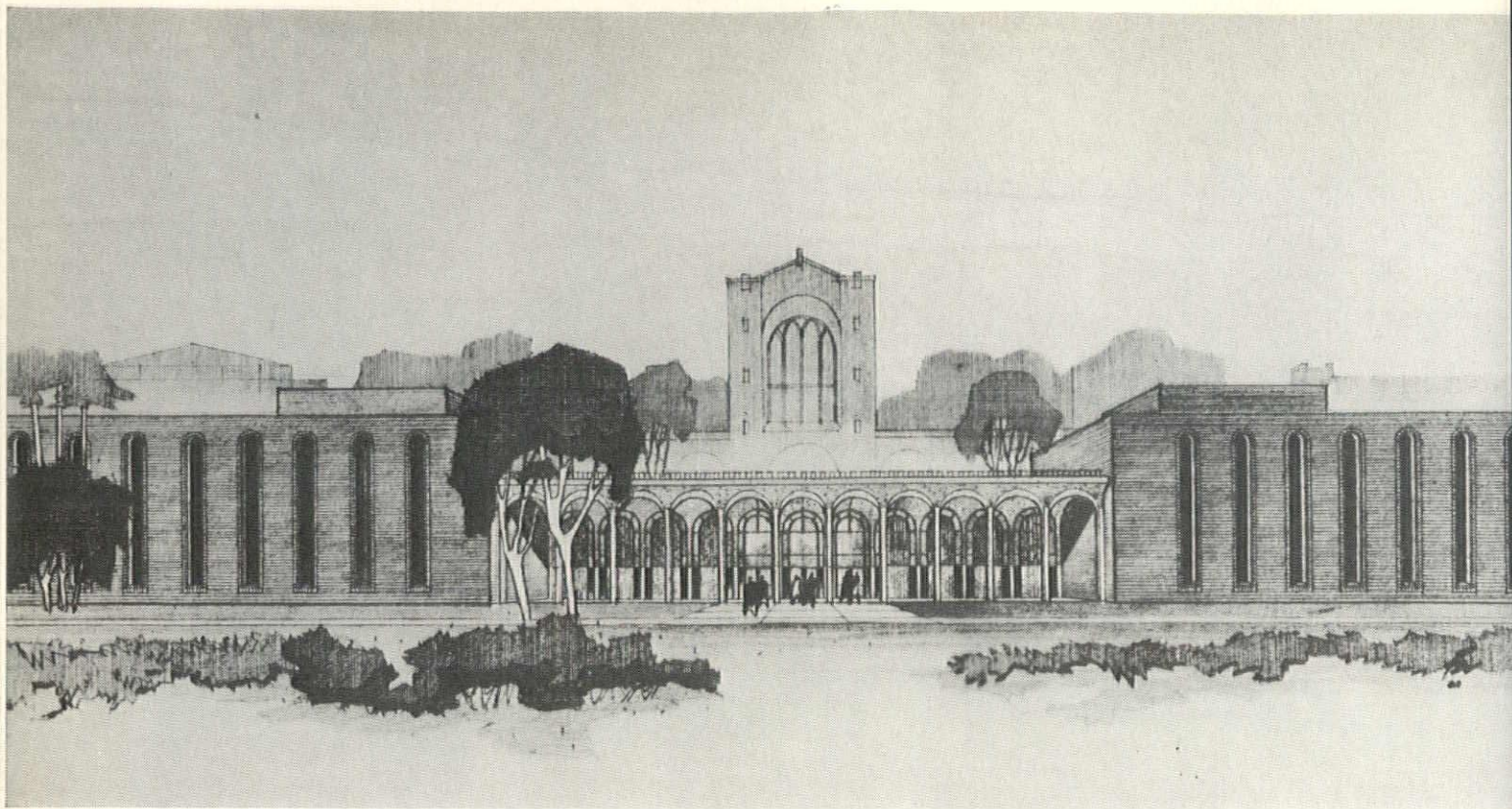
8. Civic Center Complex (1937)—C.

H. Smith, Architect, from a plan drafted by Daniel Burnhame (Chicago, 1907)

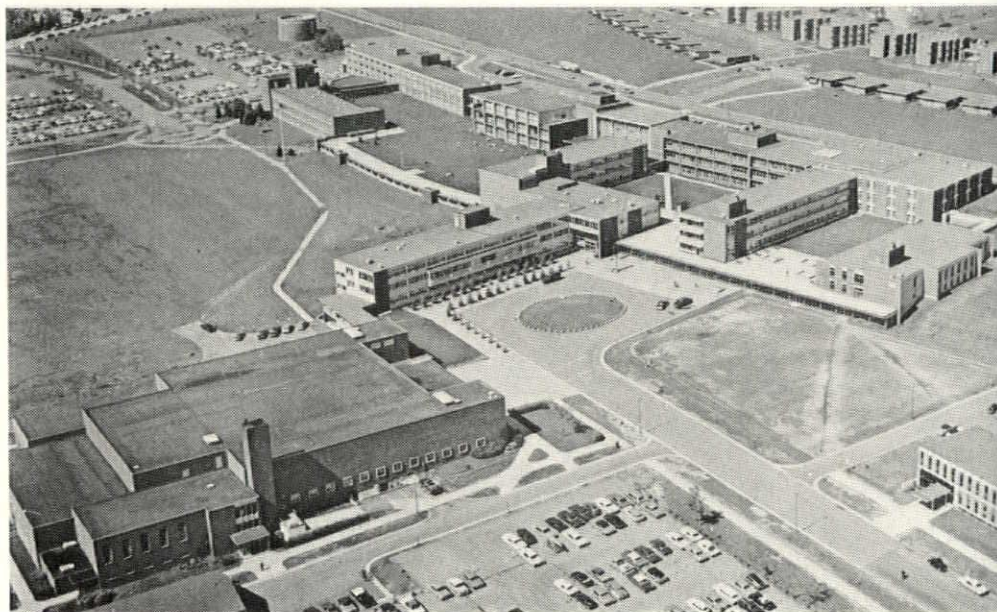
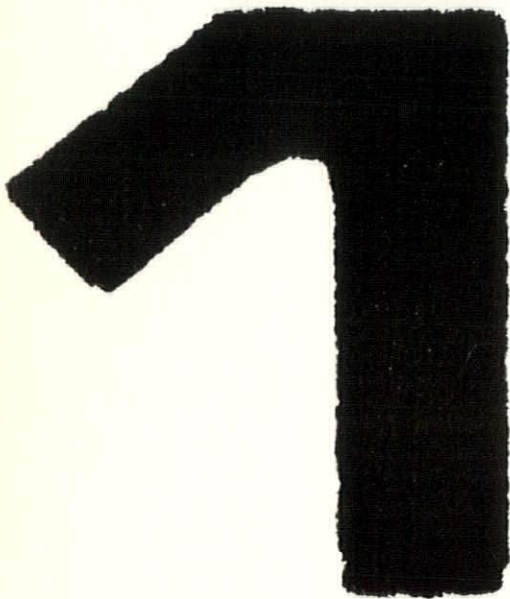
This complex plan consists of a Court House, City Hall and Federal Building centered around a civic plaza. The Court House built of granite is a classically massive structure. The Federal Building and City Hall are modifications of the Court House yet are architecturally in proportion and provide a general unity of the group.

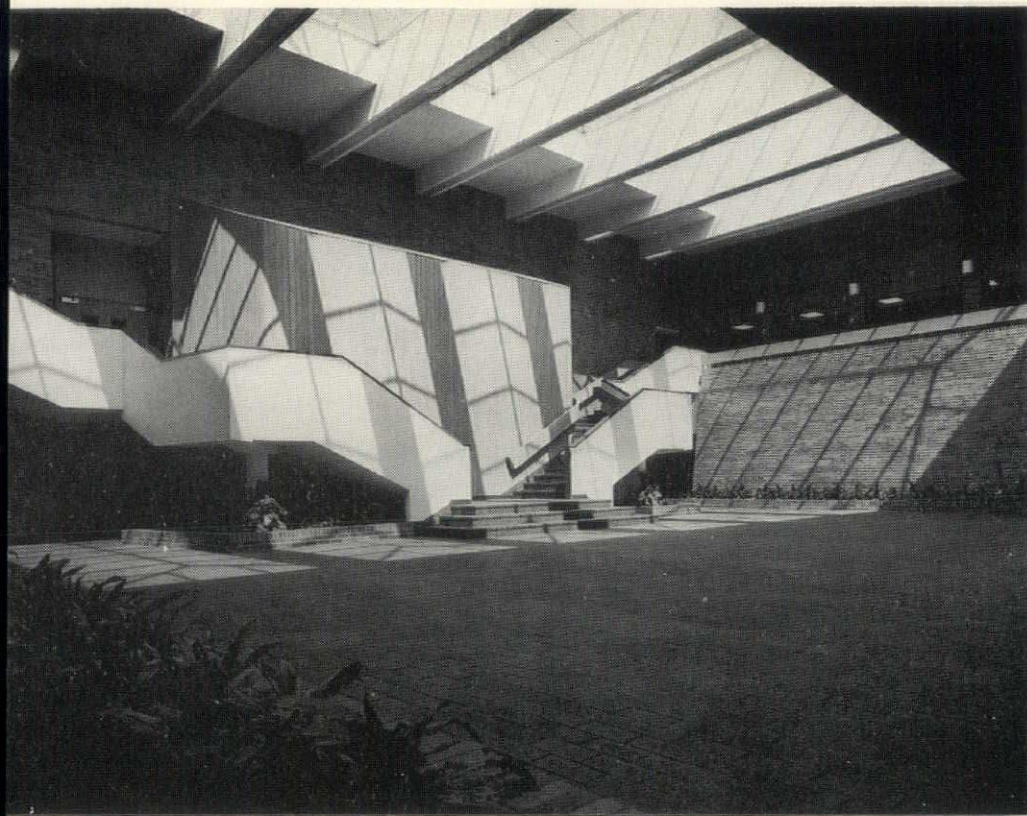
9. Union Depot (1892)—Peabody and Sterns, Boston, Mass.

Imitating the H. H. Richardson style, the depot takes on the characteristics of a turreted chateau. The structure features walls of Hinckley sandstone and Chaska brick, with Bedford limestone and Ortonville granite for contrast details.

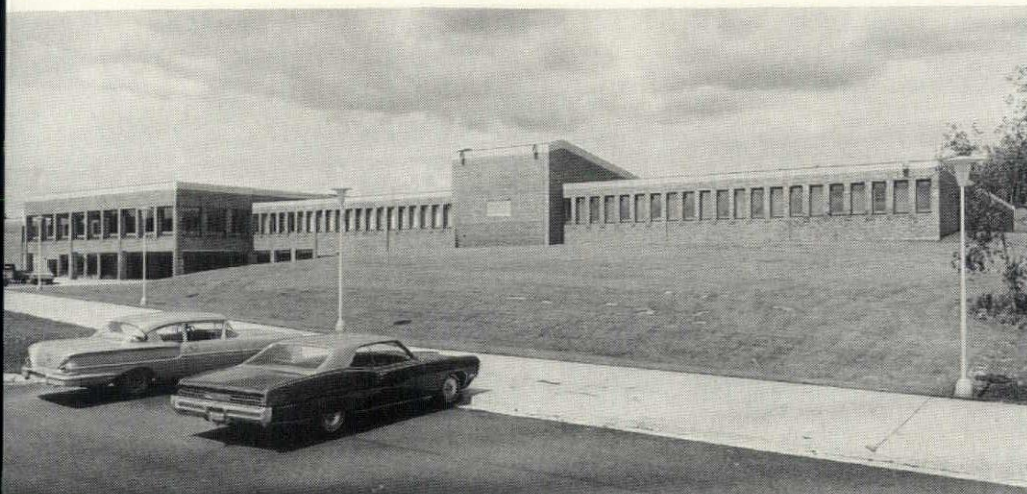


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10. College of St. Scholastica, Science Building—Melander, Fugelso & Associates, Architects

Being unable to retain the Gothic architecture of the existing campus due to rising labor costs, a contemporary structure was erected, still maintaining a tie with existing structures.

11. College of St. Scholastica, Dormitory Commons Complex—Melander, Fugelso & Associates, Architects

A 300-bed dormitory with a cafeteria and commons for student gatherings.

12. College of St. Scholastica

This women's Catholic college is built on a high bluff in English Gothic style. It resembles a medieval English castle and is built of stone quarried on the grounds.

13. University of Minnesota, Duluth

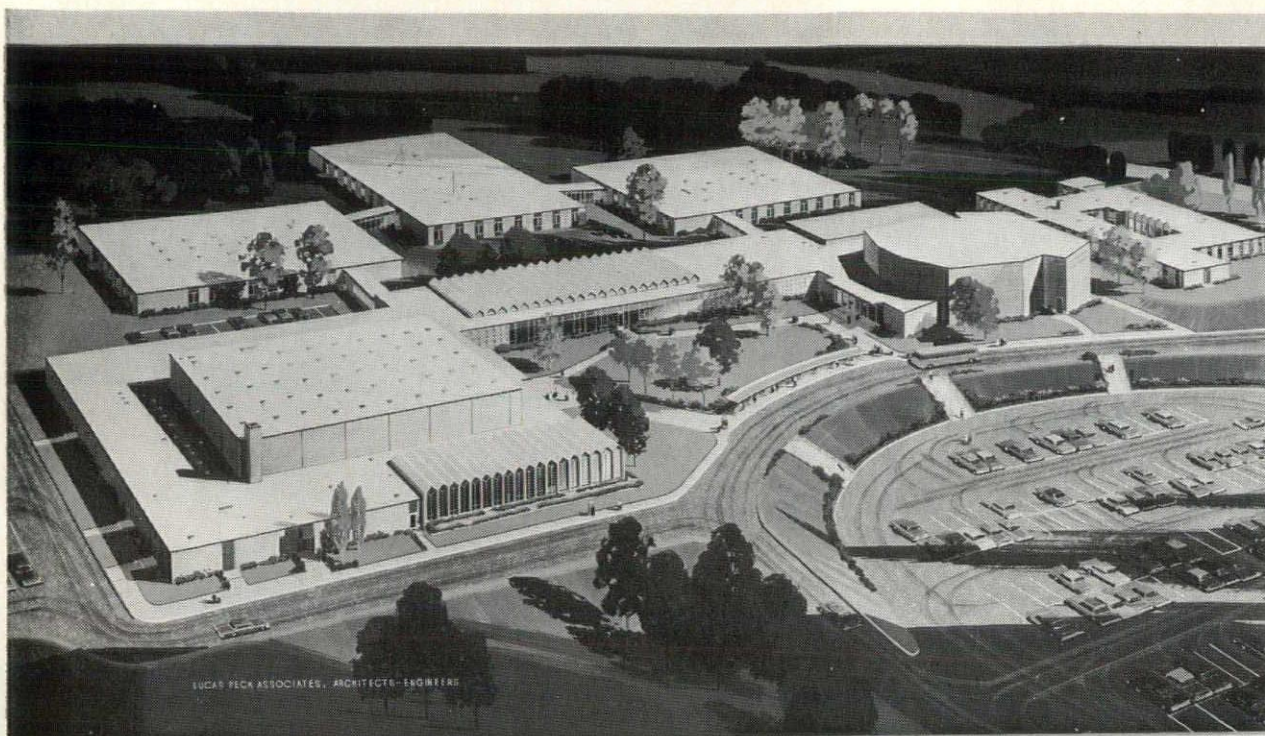
A "campus under one roof" controlled by the university advisory architect, Winston A. Close. All the main classroom buildings are accessible to students without going outdoors.

14 and 15. Duluth Area Institute of Technology—Thomas J. Shefchik and Associates, Architects

This building, located on a 100-acre site, contains 120,000 square feet of area. It is a two-story "square" with brick paver-floor, battered brick walls to surrounding balconies and skylights overhead.

16. Duluth Central High School (1892)—Palmer and Hunt, Architects

One of the nation's most outstanding examples of Romanesque revival architecture, it features a T-shape structure of Minnesota brownstone with pyramidal roofs, corner window projections. The horizontal composition achieves unity and vertical thrust through the strong centrally located square bell tower.



CATHEDRAL HIGH SCHOOL

17. Cathedral High School
Arthur C. Lucas and Associates, Architects

The site for this project is 42 acres at the top of Duluth Skyline, with a view of Lake Superior and harbor. This co-educational school is constructed for 1,500 students with separate boys' and girls' classrooms but joint use of main facilities.

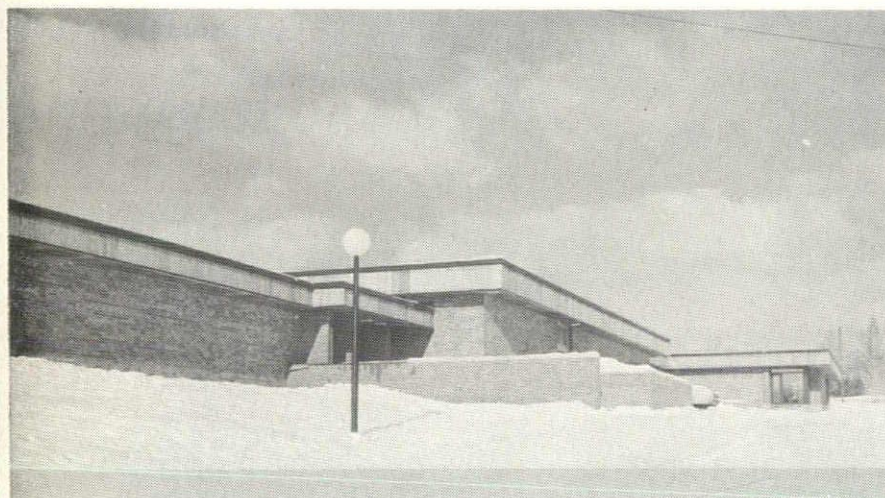
18 and 19. Addition to Chester Park School—Thomas J. Shefchik and Associates, Architects

With individualized instruction being a prime design criteria, the 12 new classrooms were arranged in three pods, all which are open to the instructional search center. The research center is an open space which is flooded with natural light through skylights.

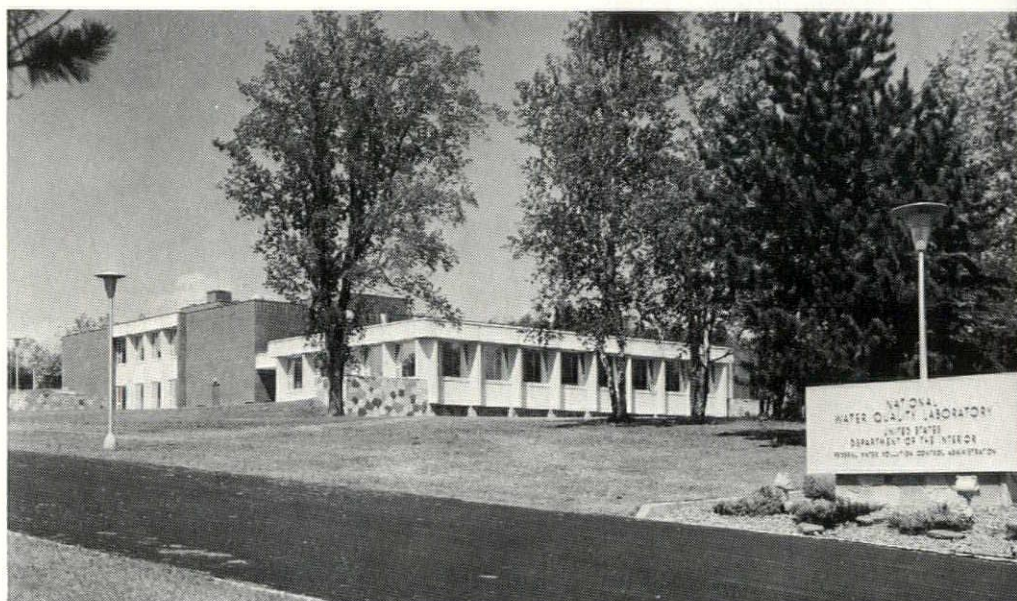
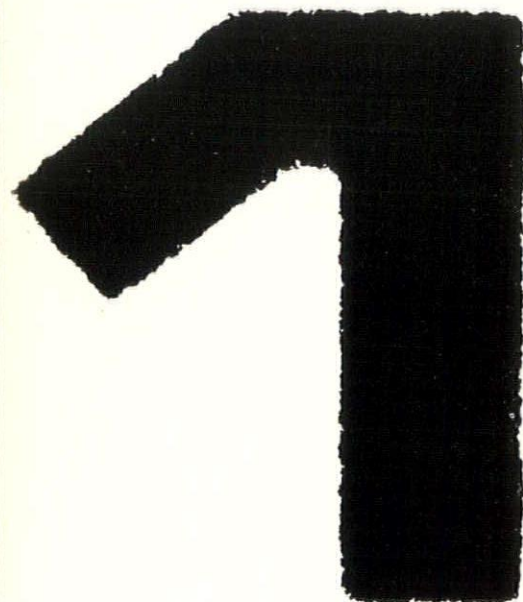
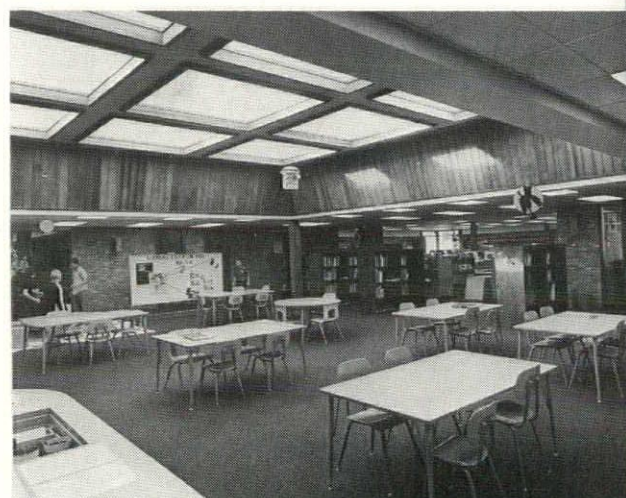
20. Natural Water Quality Research Laboratory—Lander, Fugelso & Associates, Architects

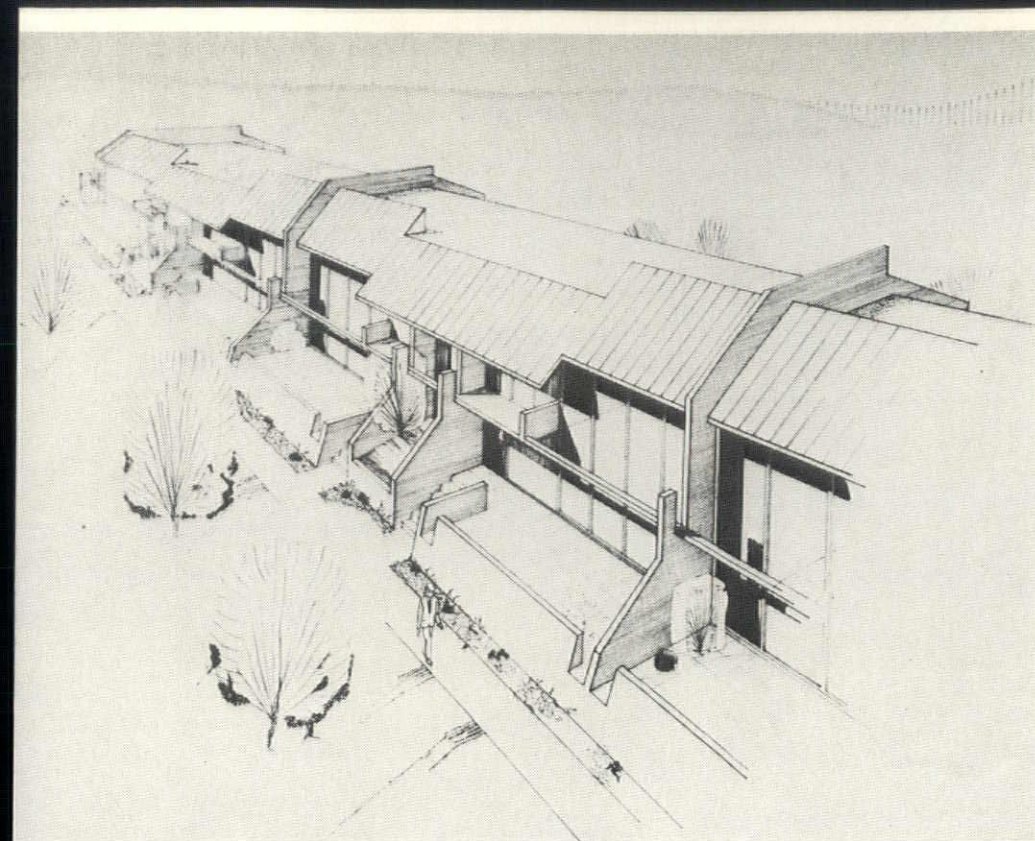
Standing on the shore of Lake Superior is one of the government controlled water laboratories and the fresh water laboratory of the U.S.

17



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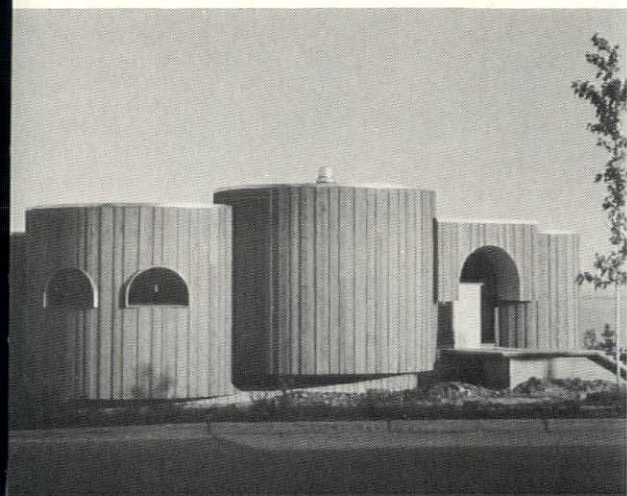




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21. Westchester Terrace—Arthur G. Thoma, Architect

A 55-unit condominium complex in a total of 11 buildings now under construction.

22. Whiteside Residence

Sensitivity, detailing and the essence of craftsmanship are seen in this Duluth residence. An architectural achievement of yesteryear.

23. "The Bellows"—Morgenstern, Stanius and Thorsen, Architects

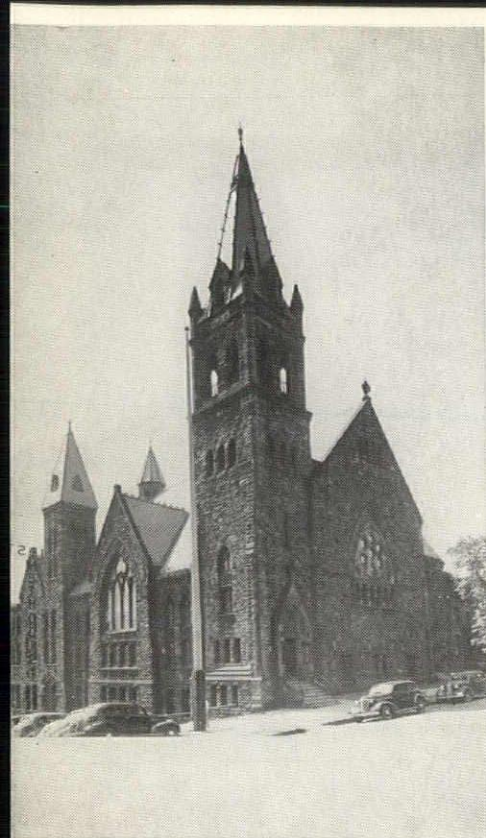
Recently completed, this restaurant stands on the shores of Lake Superior.

24. London House—Morgenstern, Stanius and Thorsen, Architects

This contemporary restaurant overlooking Lake Superior seats 300 diners, with bar facilities and meeting rooms on the main floor.

25. Storms Residence

Rising from a Duluth hillside, overlooking the Duluth-Superior harbor, is one of the finest examples of organic architecture in northern Minnesota. Major materials used were wood and stone native to Duluth.



26

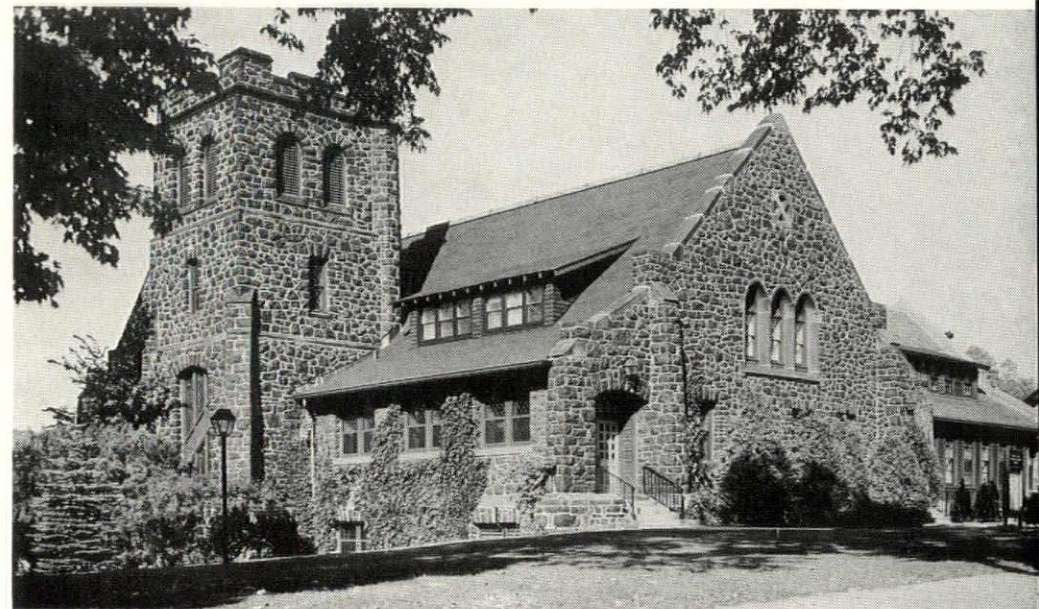
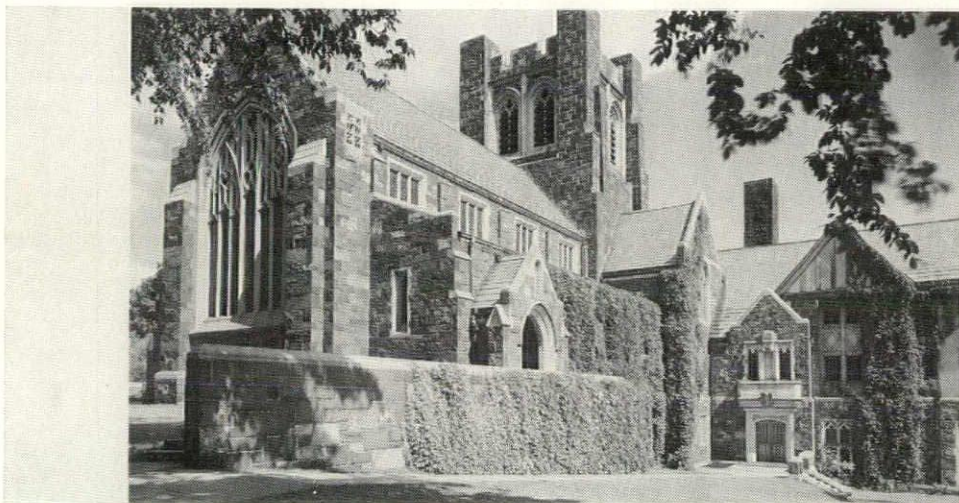


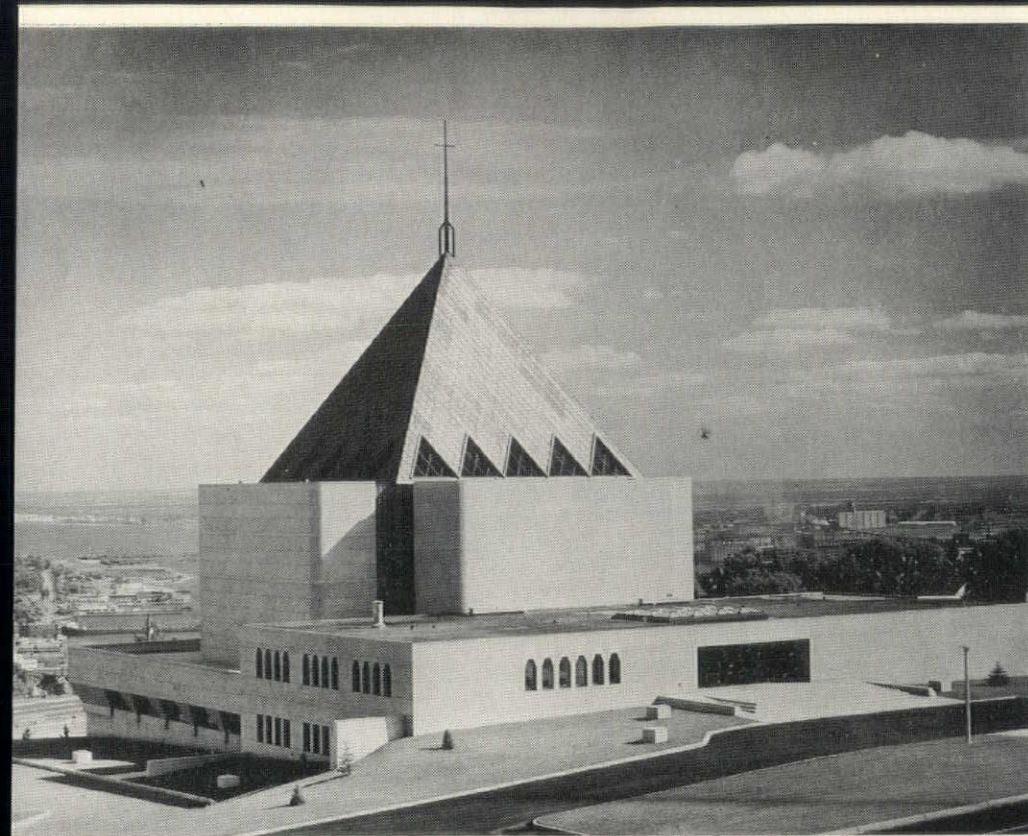
26 and 27. First Methodist Church
Gold forms in a well balanced architectural composition and sensitivity of detailing in an architectural space are seen in this Gothic structure.

28. St. Paul Episcopal Church—Cram, Goodhue and Ferguson, Architects
Originally built in 1913 and designed in the manner of an English county parish church, it was the first church in Duluth. The church was constructed with a slate covered timber roof and side entrance. The walls are of the native stone found in the hills near the site.

29. Glen Avon Church—Original building—architect unknown; Remodeled in 1948, C. H. Smith, Architect

This church, built in 1907, acquired its name from a Scottish pioneer who was reminded of his home in Scotland. The stone used in the construction was brought directly from the Glen Avon district of Duluth.

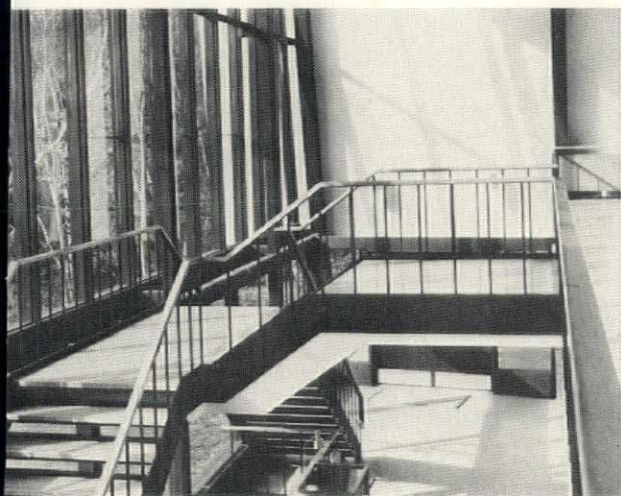




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30. First United Methodist Church—Pietro Belluschi and Melander, Fugelso & Associates, Architects

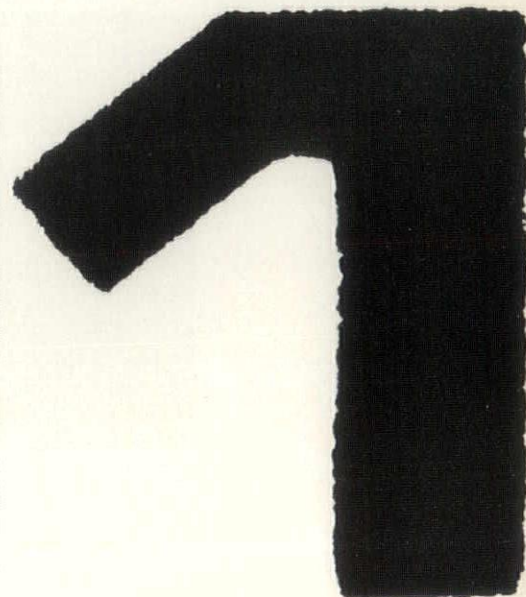
This fortress-like structure of granite with a copper roof was built on solid rock overlooking Duluth and its harbor facilities. The verticality of the nave gives great contrast to its surrounding horizontal elements.

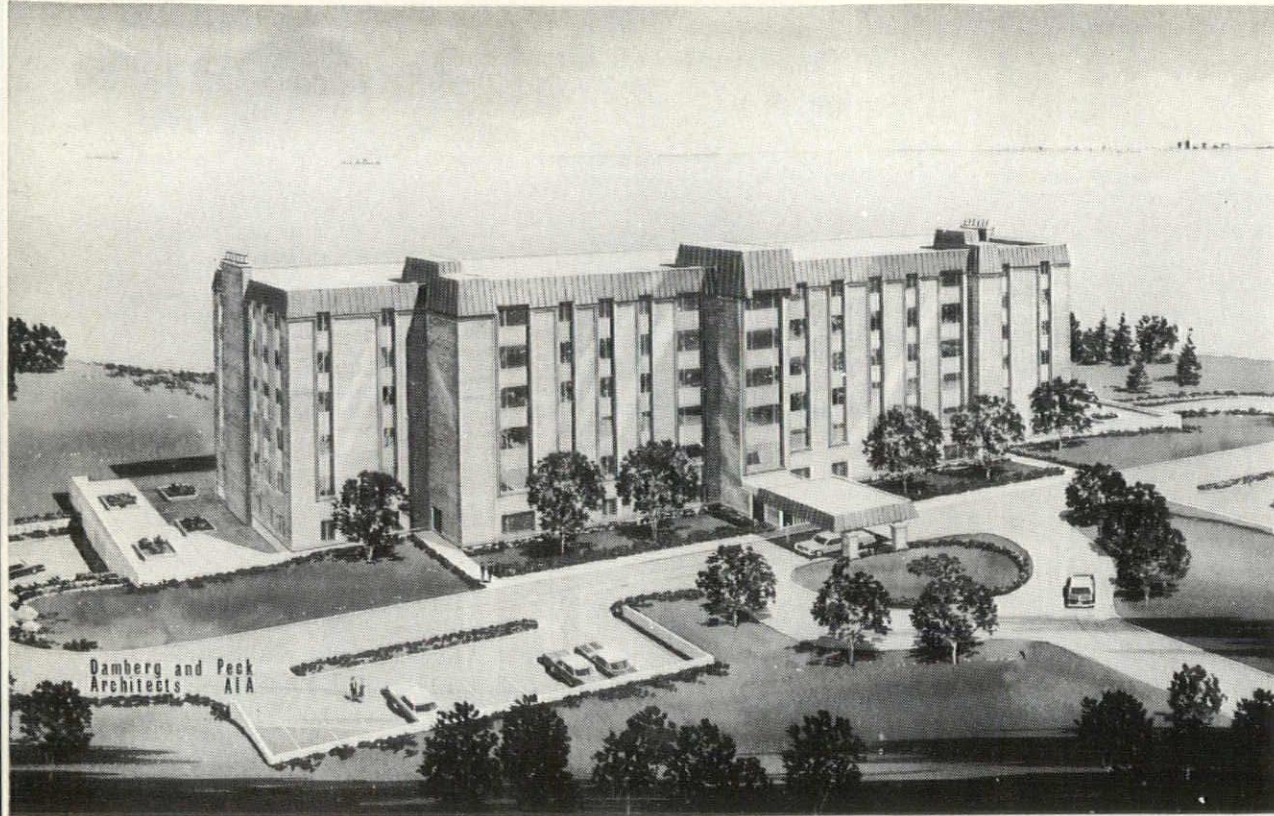
31. First Presbyterian Church (1873)—Traphagen and Fitzpatrick, Architects

One of the last remaining examples of Romanesque styling, this church features a unified composition of heaviness and vertical thrust. The tower stands 175 feet above the street.

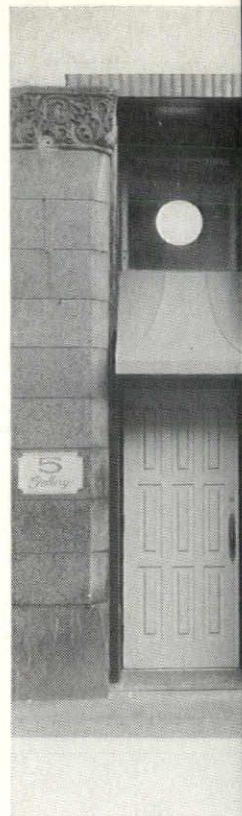
32 and 33. Concordia Lutheran Church—Morgenstern, Stanius and Thorsen, Architects

The design concept was to create a church structure conducive to good acoustics, hence the wedge shaped auditorium. Both the roof and side wall roofs were curved together with wall below to soften the shape.





34



34. Chateau DuLac Apartments — Damberg and Peck, Architects

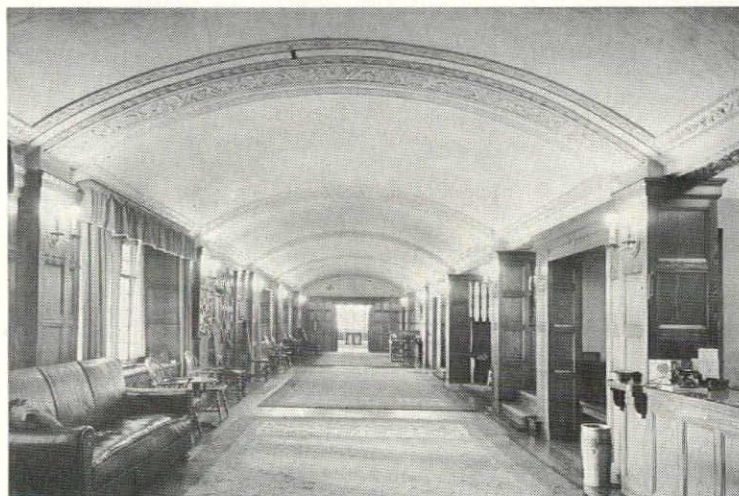
This secluded six-story bearing wall, 60-unit, luxury apartment building is located on the shore of Lake Superior. All apartments are accessible by elevator to the underground heated garage. Elaborate security systems insure privacy.

35. Gallery 5—John Ivey Thomas, Architect

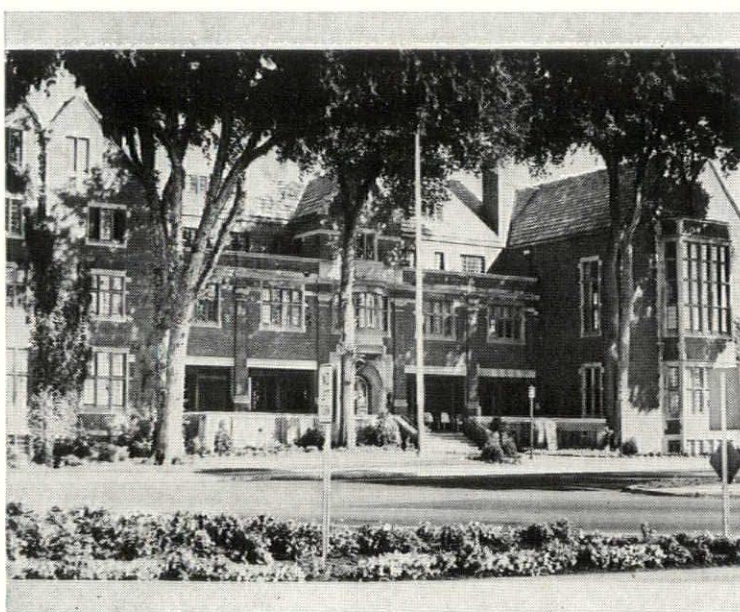
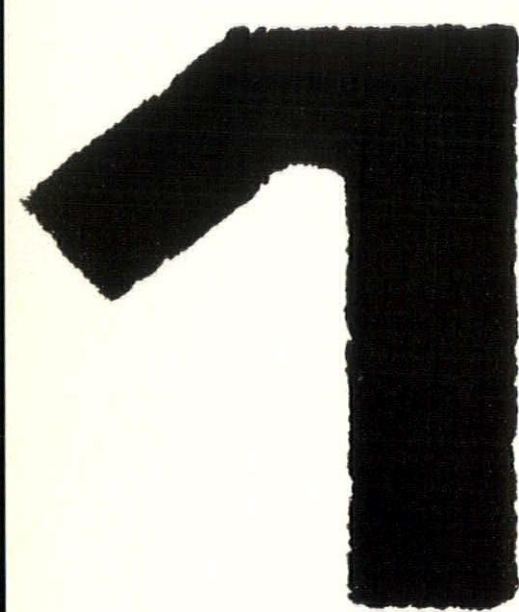
Hotel renovated into an art gallery for local art exhibitions. The character of the interior spaces has been retained and incorporated into a pleasing gallery atmosphere.

36 & 37. Kitchi Gammi Club—Cram and Goodhue, New York, Architects

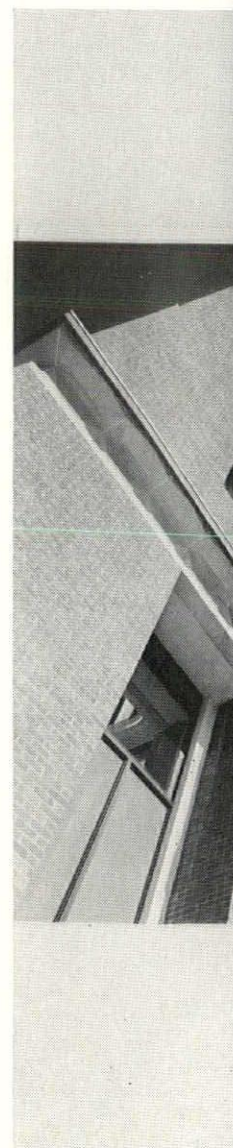
A Gothic designed structure, built in 1913, of brick and wood imported from England and Australia. The exterior takes on the character of an English manor house, with its central interior feature being that of a fireplace in every major space.



36



37



St. Lukes Hospital (1969
ition)—Thomas J. Shef-
& Associates, Architects
new wing has 190 air
ditioned rooms with ac-
ommodations for 268 pa-
nts. Each floor has a
arium with a view of Lake
erior.

Starkey Residence—Mar-
Bruer, Architect

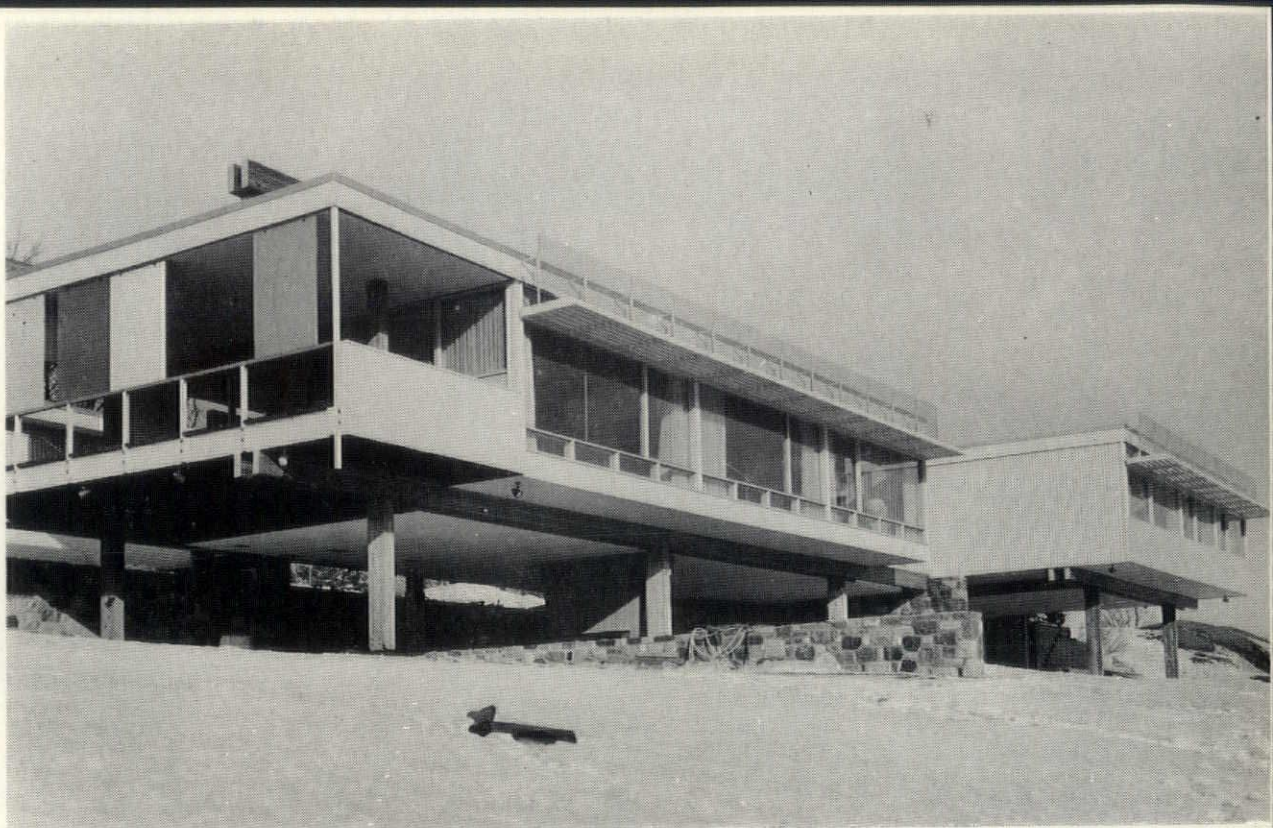
sed on stilts to give a
matic view of Lake Su-
ior, this residence has a
nounced nautical flavor
gesting gangways con-
cting the structure to the

and 41. Bowman Resi-
ce—John Ivey Thomas,
hitect

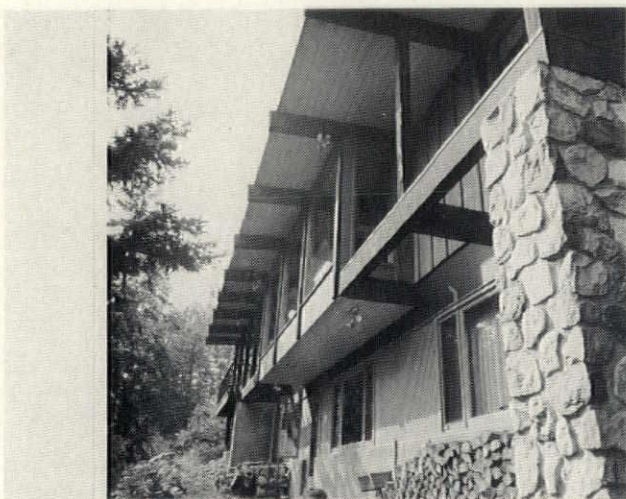
minant materials are
gh sawn timbers from
year-old ore dock col-
ns, local field stone and
dmade quarry tile.

Board of Trade Build-
s (1893)—Traphagen and
patrick, Architects

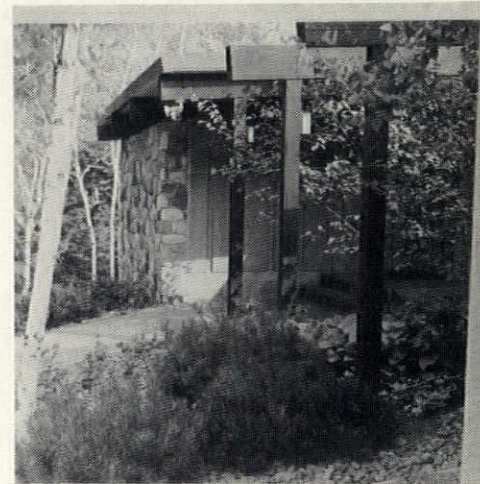
is building is Roman-
ue in style, having sim-
lines with great details.
eatures alternating lines
sandstone and pressed
ck with crisp window
nings.



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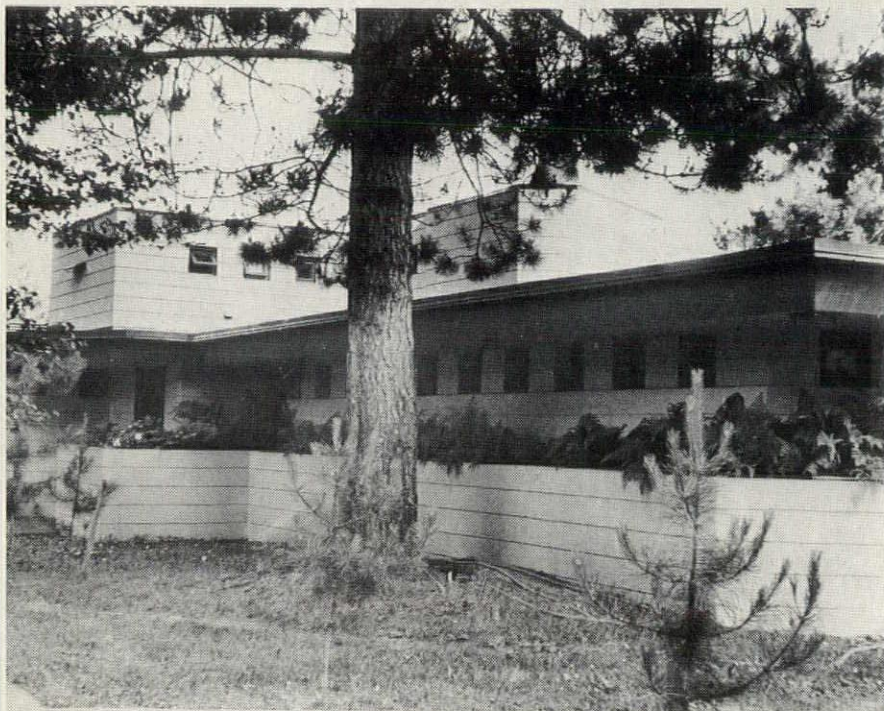


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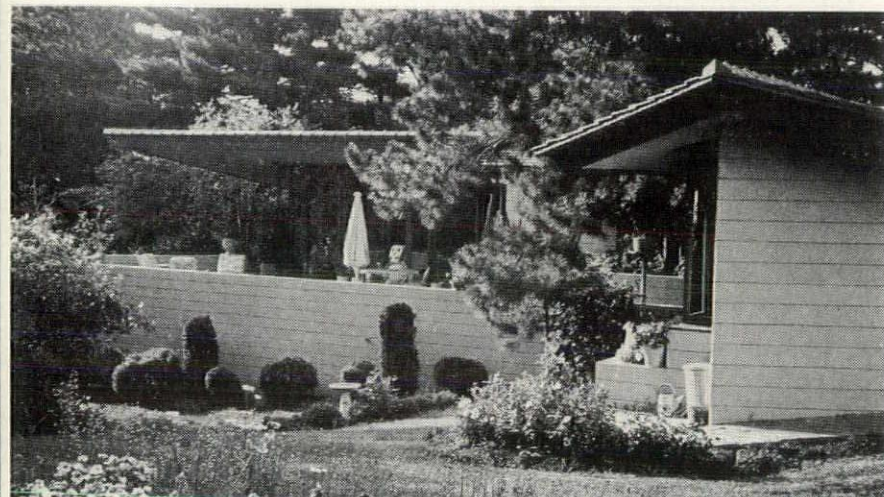


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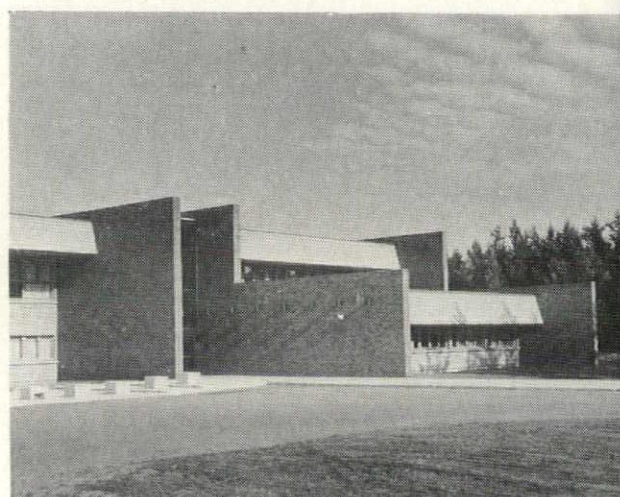
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43 and 44. Residence—Frank Lloyd Wright, Architect

The only examples of Wright's residential work in northern Minnesota. Details synonymous with the name Wright can be seen in this residence (high windows, large overhangs, intimate exterior spaces for privacy).

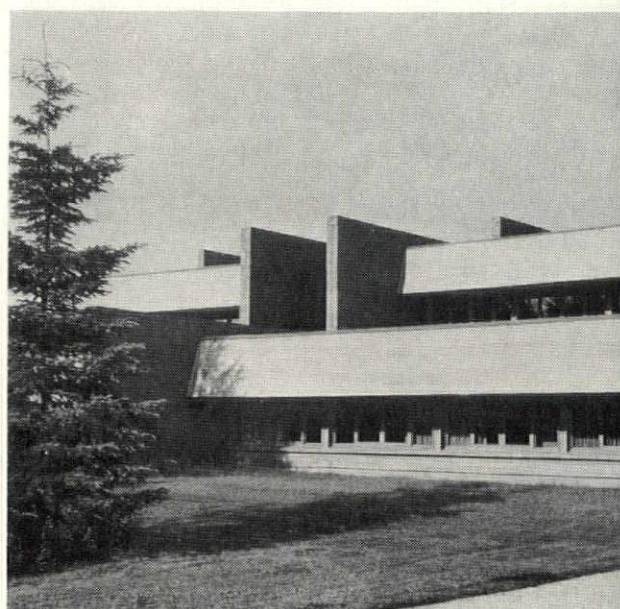
45. Service Station—Frank Lloyd Wright, Architect

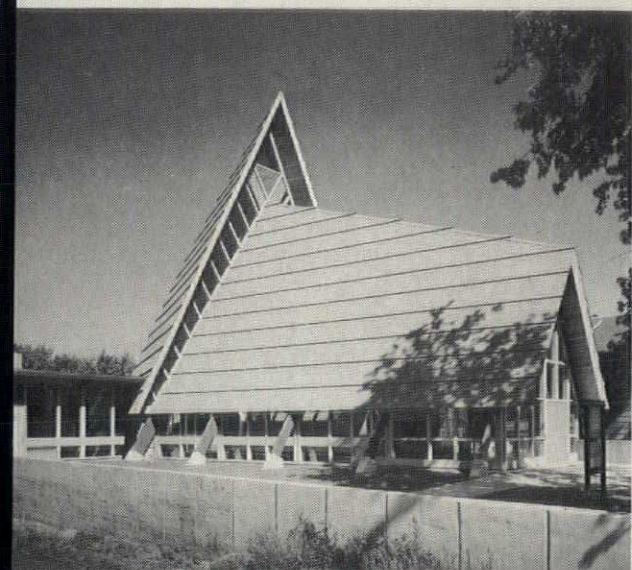
The owner, a personal friend of Wright, called on Wright for the design of his service station. Wright complied with his wishes and it turned out to be Wright's first and only such structure.

46 and 47. Cloquet High School—Hammel, Green and Abrahamson, Architects

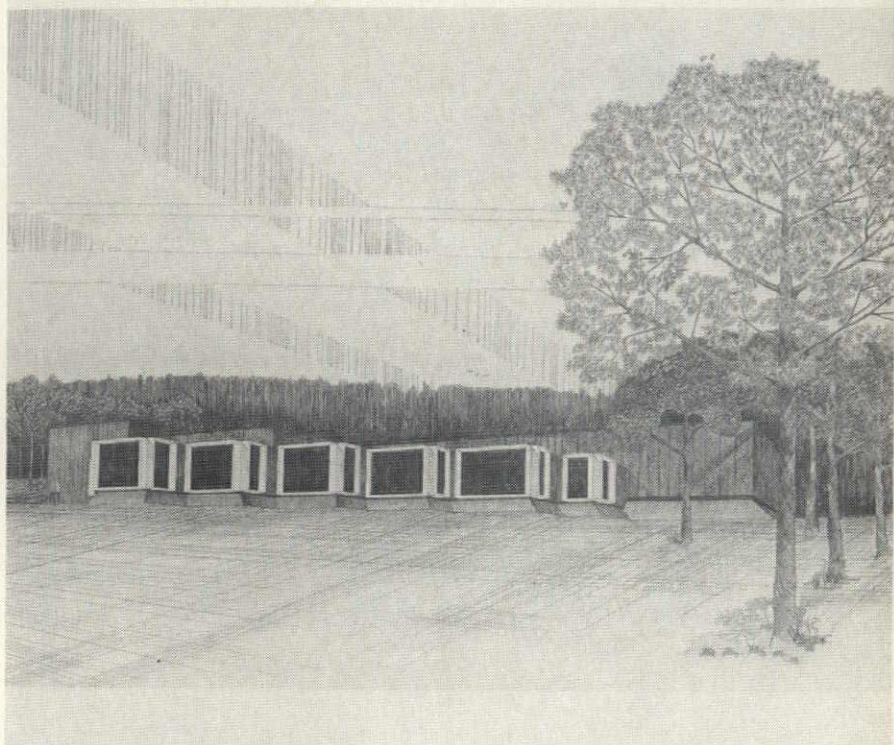
A contemporary school design which features bold forms, sensitivity of details and intimately scaled spaces for student activities.

2

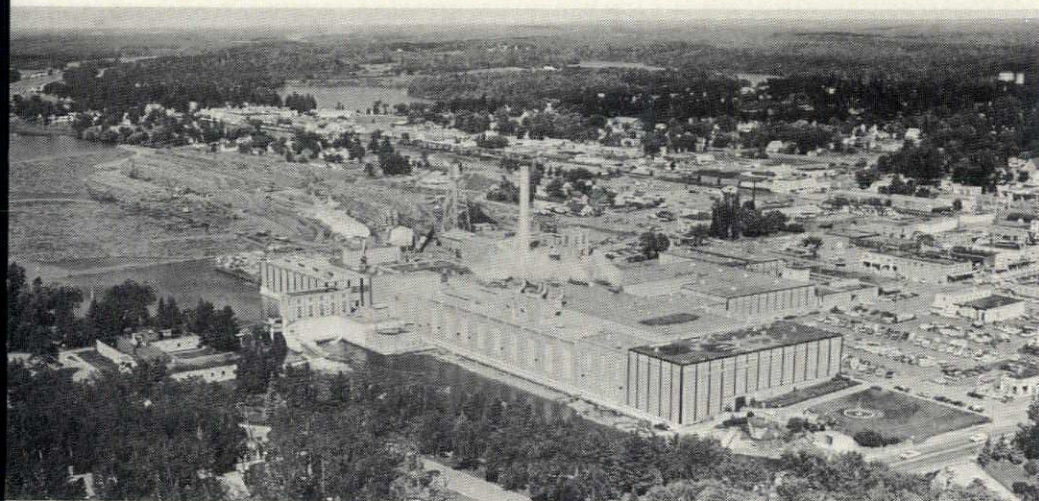




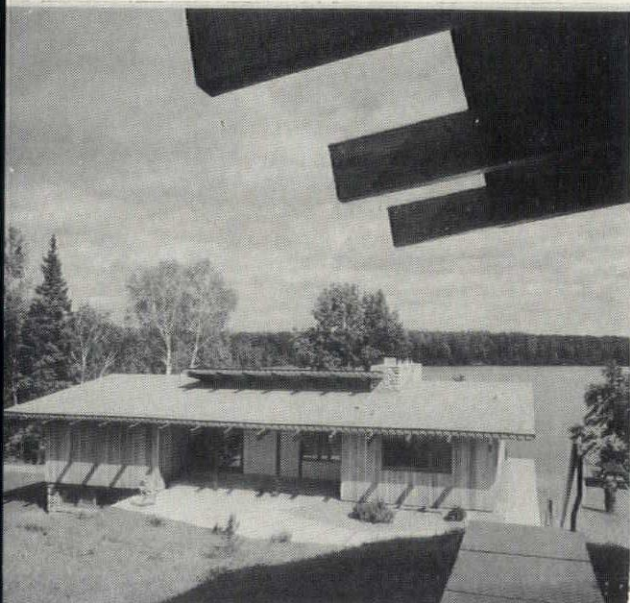
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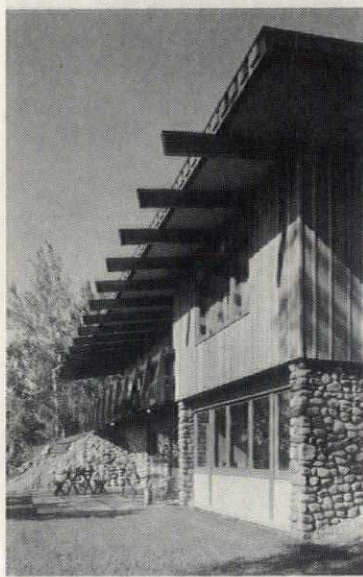
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48. Bethel Lutheran Church, Bovey, Minn.—Jyring and Whiteman, Architects

Built of wood, this structure suggests simplicity and northland charm.

49. Dairyland Co-op, Inc., Grand Rapids, Minn.—Thomas J. Shefchik & Associates, Architects

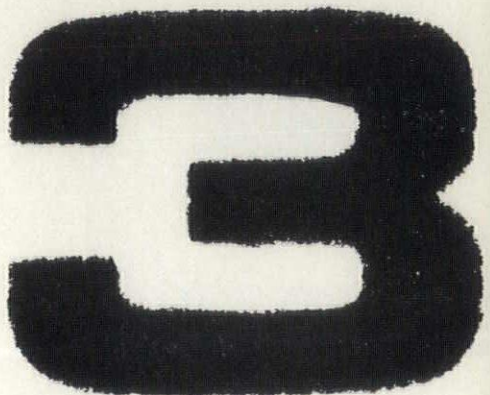
This office building and garage facility is situated on a hilly site overlooking the Mississippi River Valley. The sawtooth design with earth berm of the office wing offer optimum expansion to this view.

50. Blandin Paper Co., Grand Rapids, Minn.

The Blandin Paper Company mill was originally built in 1901 and produced 25 tons of newsprint each 24 hours. In 1950 extensive expansion started with a program and design established by Ellerbe and Company of St. Paul. The present plant produces more than 500 tons of printing paper each 24 hours.

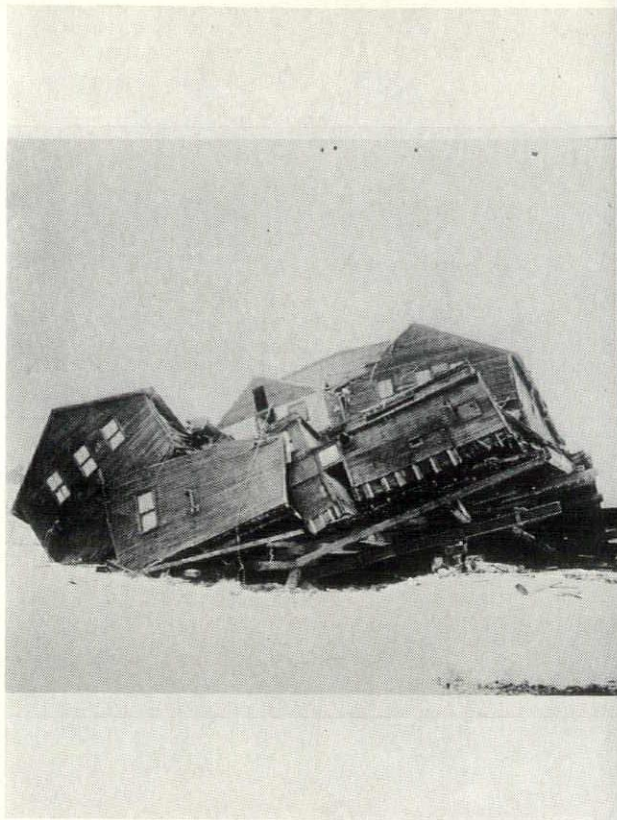
51 and 52. Dr. J. A. Bolz Residence on Jacques Lake, Grand Rapids, Minn.—Jyring and Whiteman, Architects

Features native stone for lower walls and fireplace and naturally finished smooth woods above.





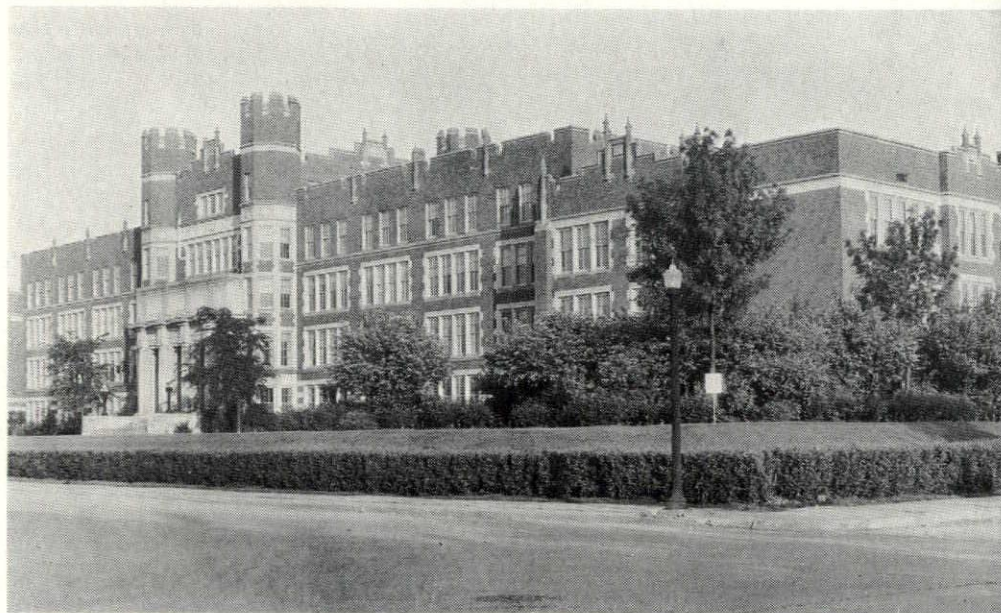
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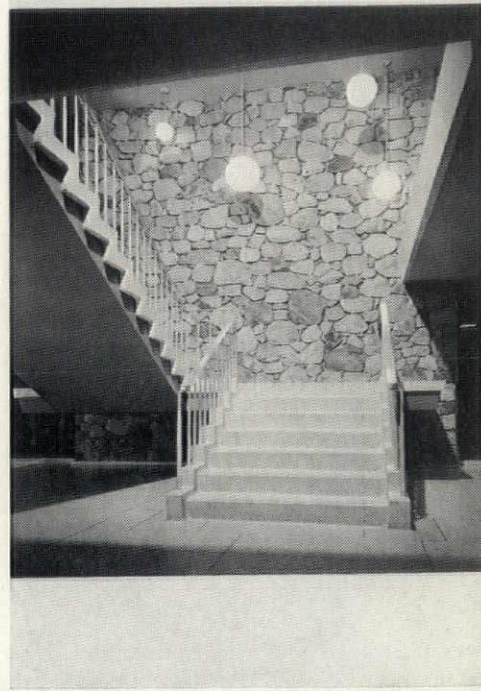


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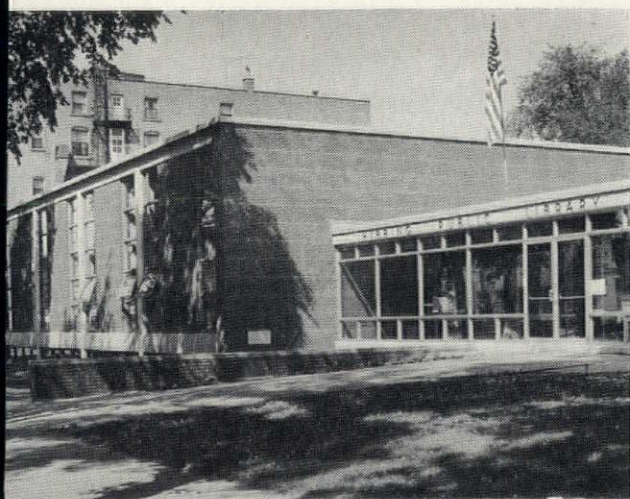




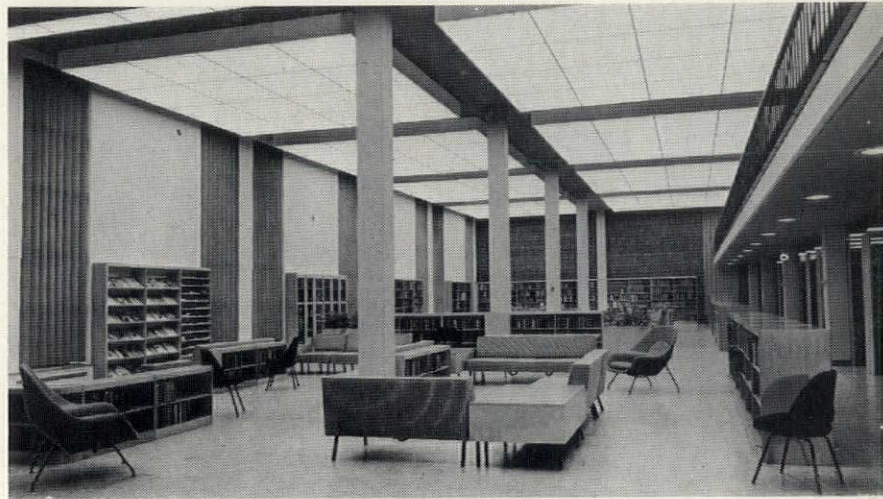
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61

HIBBING
The original town of Hibbing was founded in 1893 as a lumber and mining community. In 1900 the entire town was moved one mile to the north. Hibbing exists today as a prospering center of Range communities. It is "City Without Smoke" and has an underground heat system.

53 and 54. The Sellars Hotel, Hibbing (1920)

Being moved to a new location one mile south, it collapsed en-route. About 185 dwellings, 12 frame business buildings and eight brick business blocks were moved.

55. Hibbing (1920)

Construction of the new Main Street. Notice the simple yet strong architectural forms.

56. Hibbing—The Androy Hotel (1920)

Heavy symmetrical composition with delicate details for contrast.

57. Hibbing High School (1920)—W. T. Bray, Architect

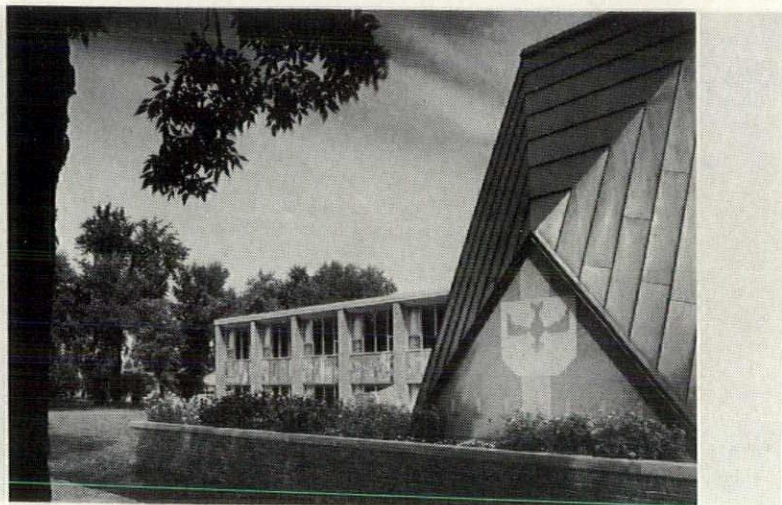
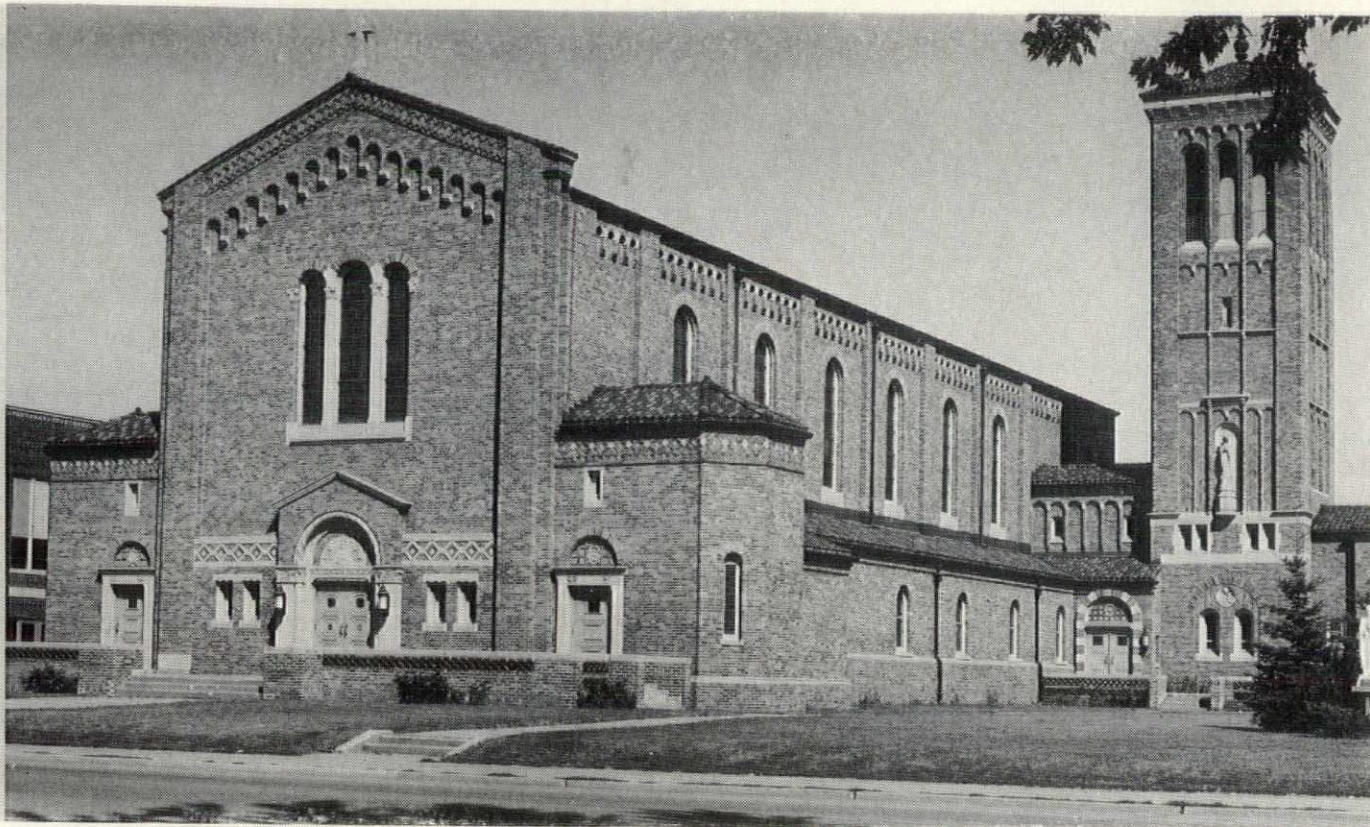
Costing \$3,927,325, this Italian Gothic structure is a unified composition of red brick and Bedford stone. The most dominant feature of the school is the auditorium, which is patterned after the famous capital theater in New York City. Imported cut glass chandeliers flood the space with light.

58 & 59. St. Louis County Courthouse, Hibbing (1960)—Jyring and Whiteman, Architects

Located at the east end of Hibbing, public access is oriented toward the town to the west; police facilities and employee parking are to the east. Each element in the building has its own entrance, with a scale that relates to the function. The interior features hand-split stone and terrazzo floors.

60 and 61. Hibbing Public Library—Jyring and Whiteman, Architects

Strong separation functions (adult library, children's library and check-out research center) and grand two-story reading room (adult library) are the predominant architectural characteristics of this community building.



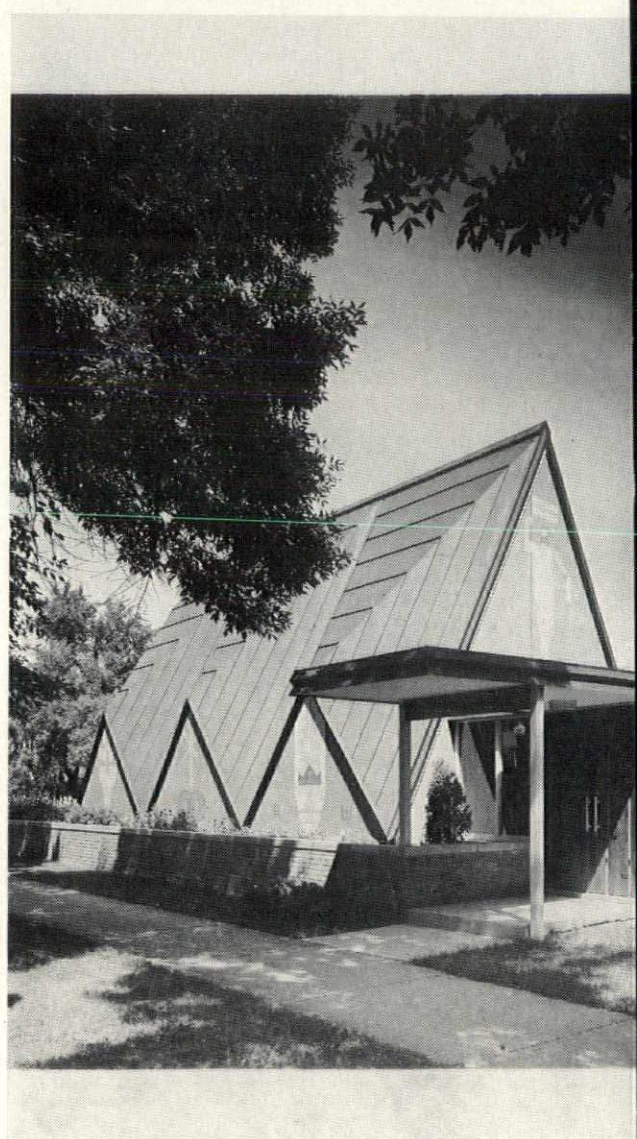
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**62. Blessed Sacrament Church—
O'Meara and Hill, Architects**

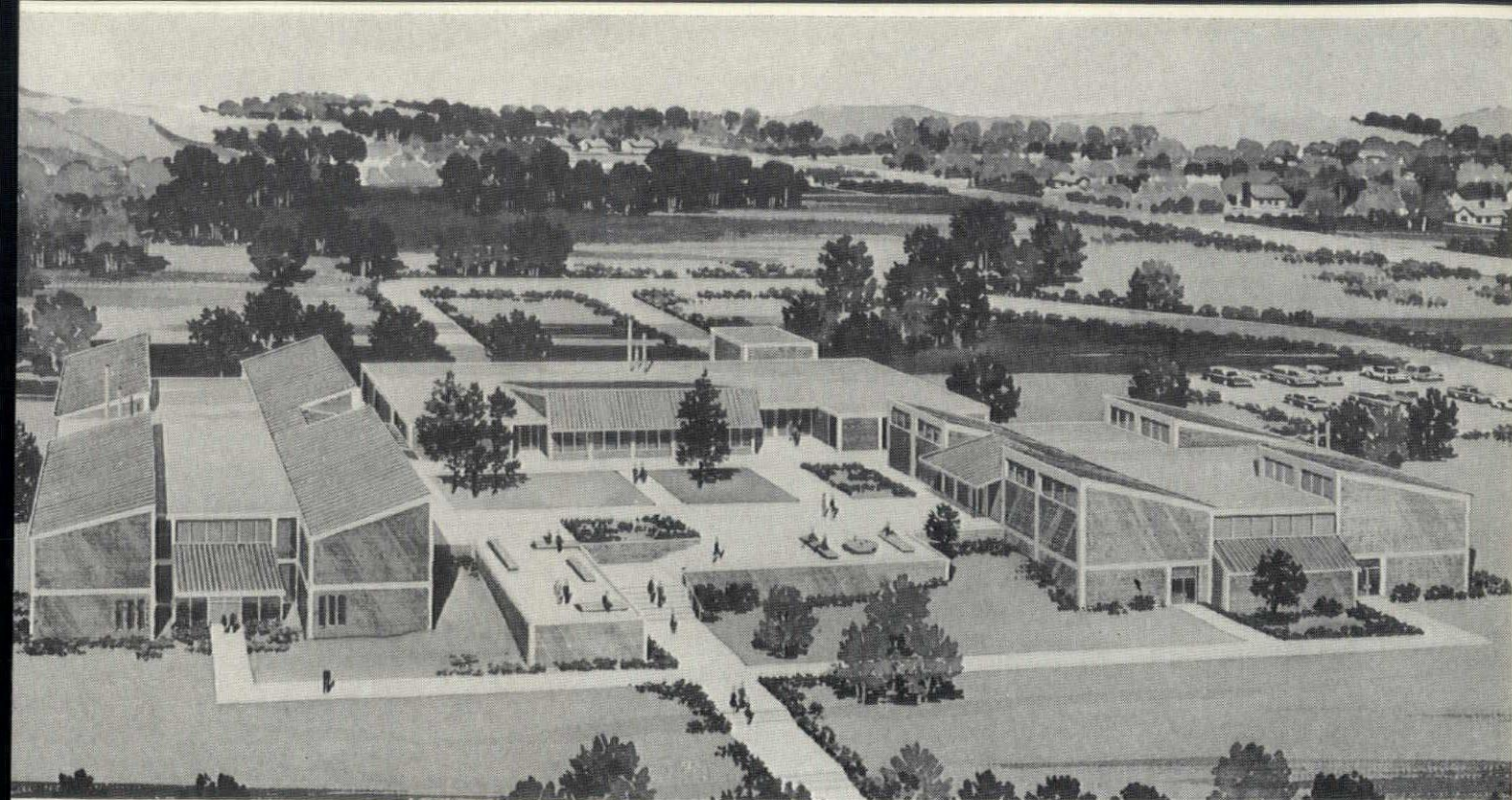
Strong form, yet with a simple charm, characterizes this Byzantine orientated structure of brick with clay tile roofs.

63 and 64. Our Saviors Lutheran Church—Robert Y. Sandberg, Architect

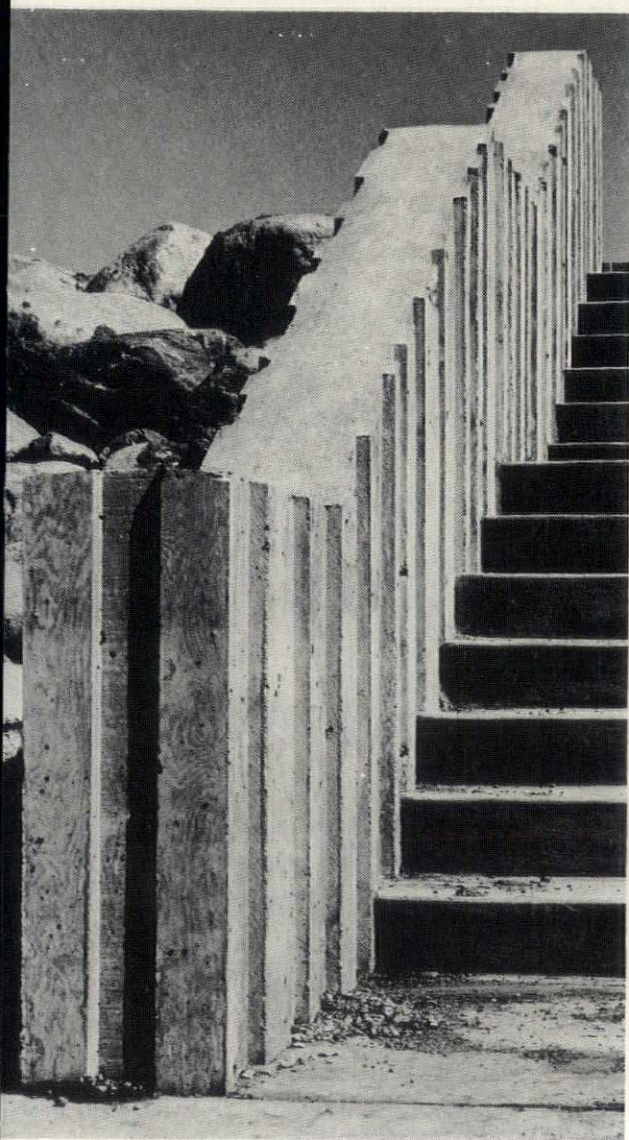
Ceramic wall panels depict the life of Christ. The chapel section was preconstructed in the shop and dismantled for job assembly.



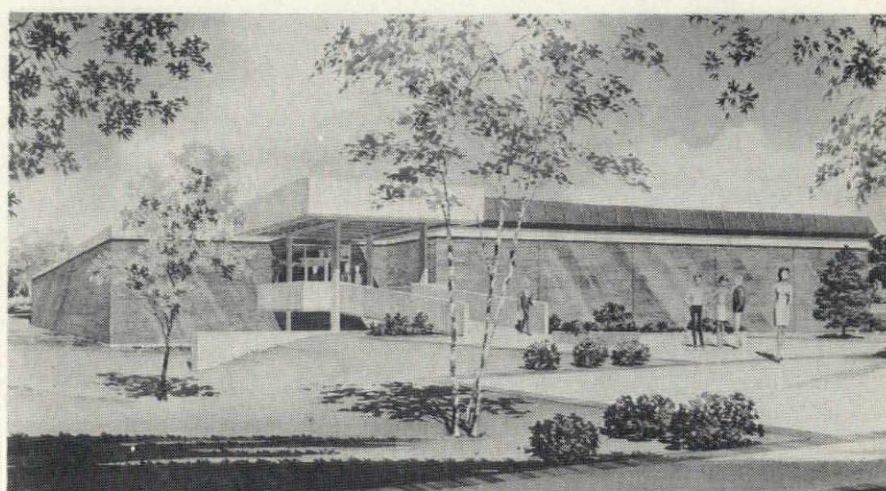
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**65. Hibbing Junior College—Morgens-
tern, Stanius and Thorsen and Rob-
ert Y. Sandberg, Architects**

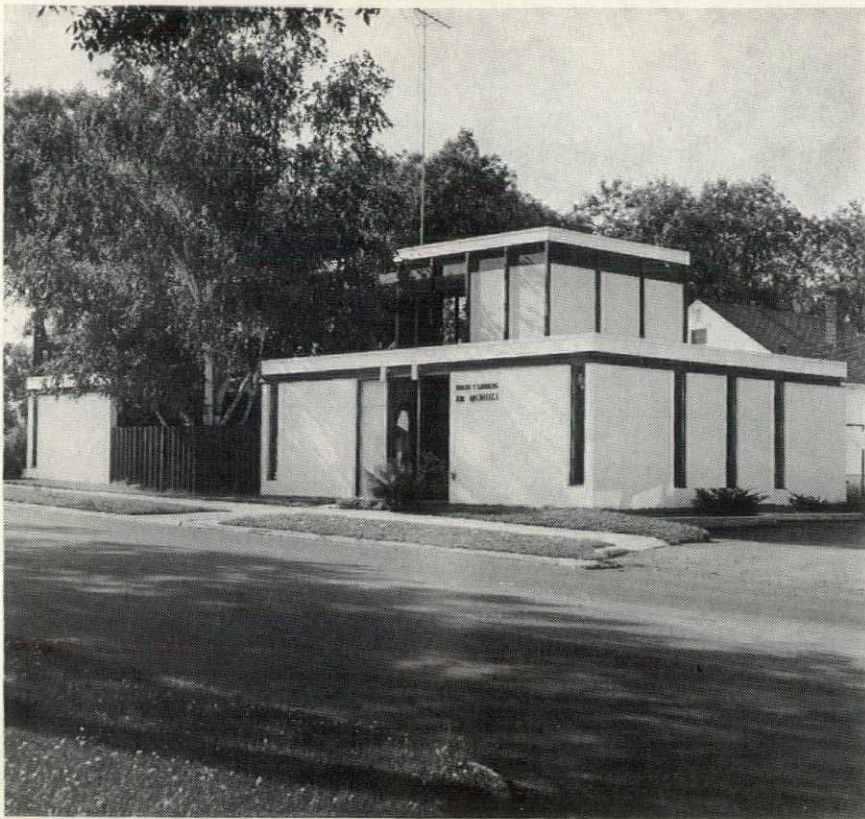
A court-oriented scheme near the St. Louis County fairgrounds. The site allows for parking and future expansion.

**66. Hibbing Junior College Activities Building—Robert Y. Sandberg, Archi-
tect**

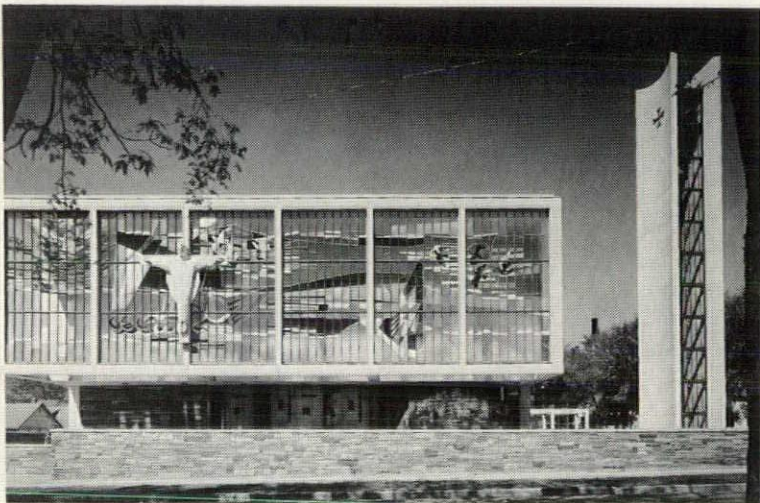
As a contrast to the dominating shed roofs of the college proper, the Activities Building takes on a form conducive to the function it serves yet still ties in quite well with the rest of the campus.

67. Hibbing Junior College, Stair and Retaining Wall Detail—Robert Y. Sandberg, Architect

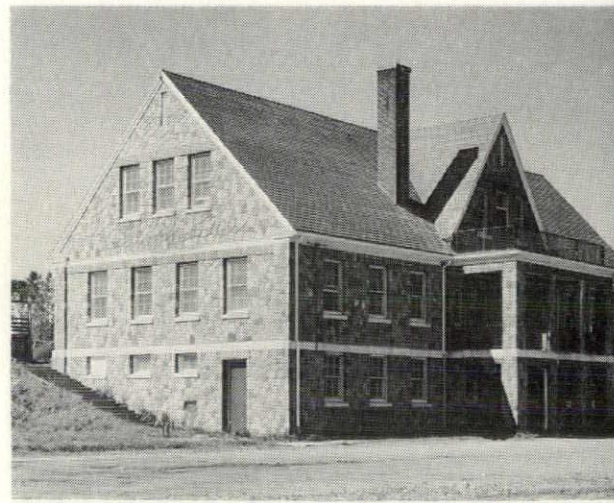
Detail form board concrete achieves great contrast to the face brick and creates a tie-in with the exposed concrete areas of the College structure.



68



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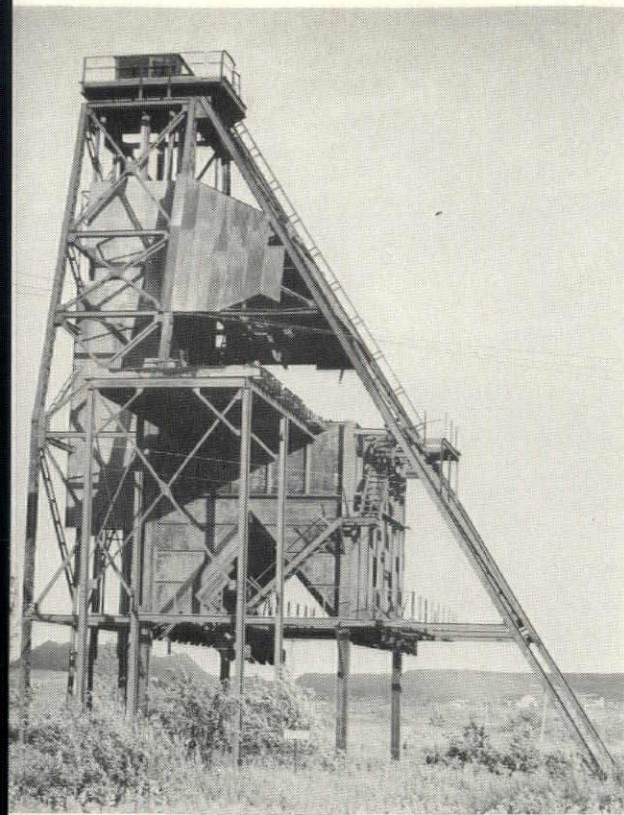


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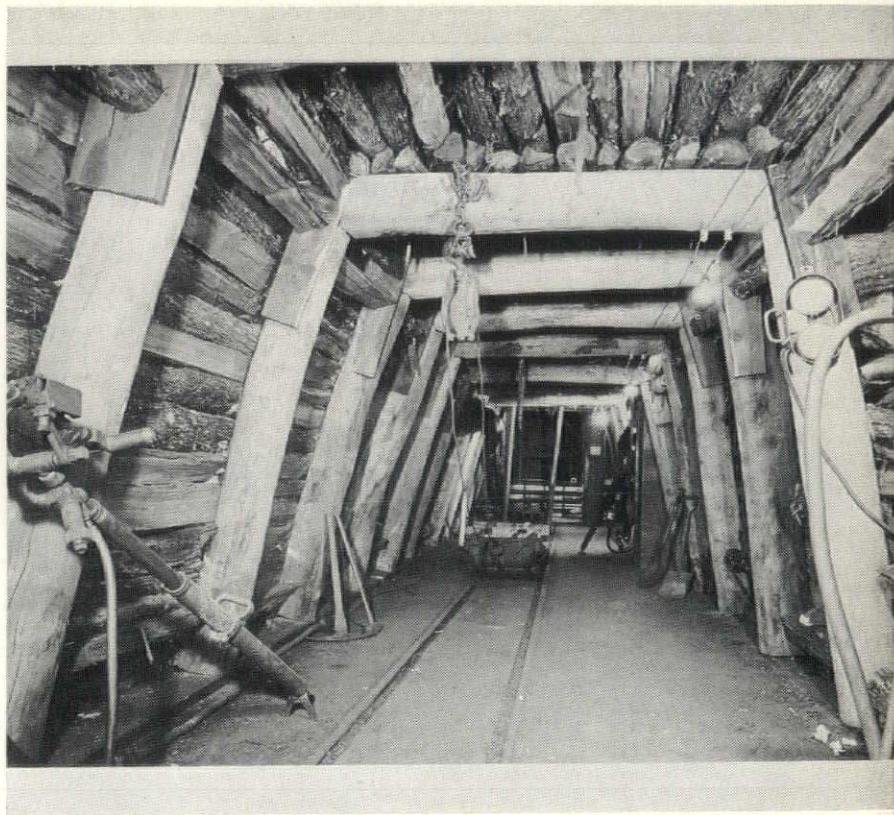


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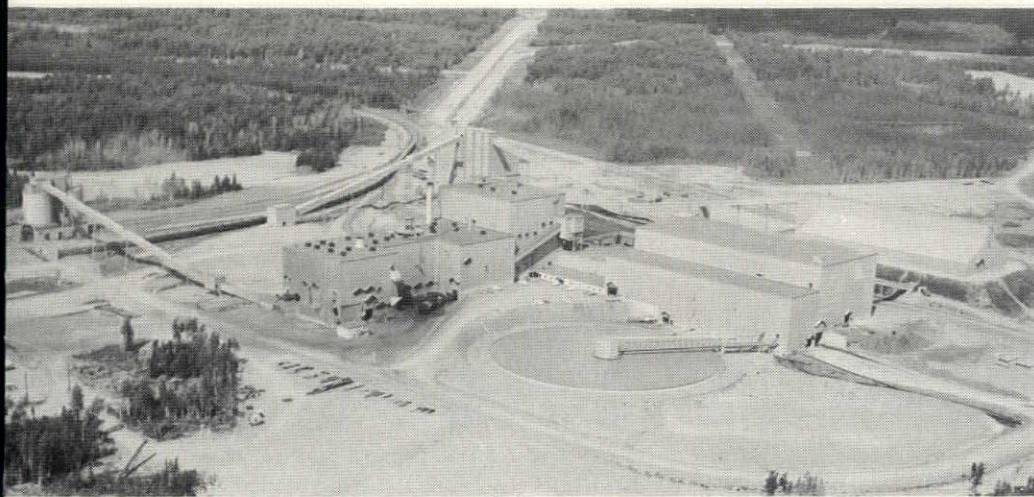
68 and 69. Architect Robert Y. Sandberg's Office and Residence. Building features an inner court. House-office separation is complemented by a corner lot, allowing for separate entrances. Before remodeling it was a 50-year-old two-story log house.
70 and 71. St. Joseph's Church, Chisholm, Minn.—Jyring Whiteman, Architects
Unique altar lighting by sunlight is through a colored glass dome. The color pattern changes constantly as the sun moves about. The church has a seating capacity of 900.
72. Chisholm Field House
Native stone achieves strong architectural character in a simple building form.



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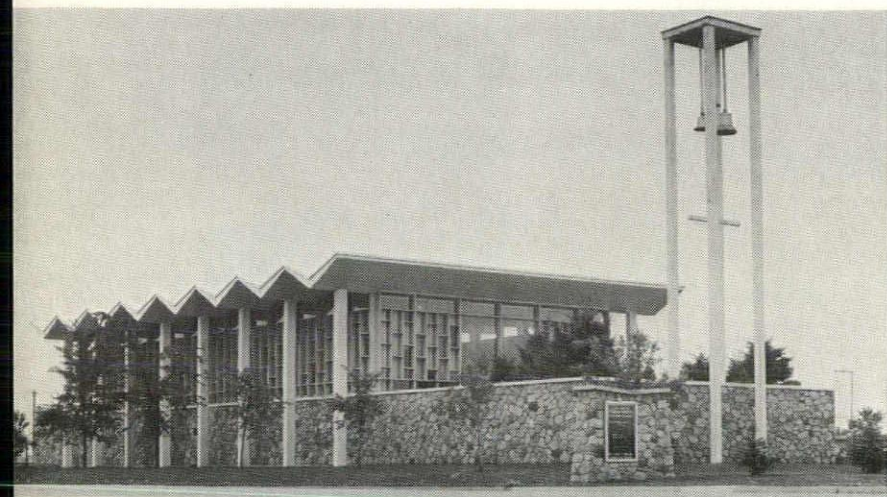
73. Mining in Northern Minnesota
Abandoned loader recalls days of early underground mining.

74. Underground Mine Shaft
Heavy timber construction is used to retain the earth.

75. Open Pit Mines
Largest open pit mines in the world have been the main source of the Iron Range wealth.

76. Taconite Plant
Due to depletion of ore deposits by open pit mining, the taconite industry evolved. In this plant the ore is crushed, separated magnetically from the taconite rock, pelletized and shipped to eastern steel mills—a far cry from the pick and shovel open pit mining of yesterday.

4



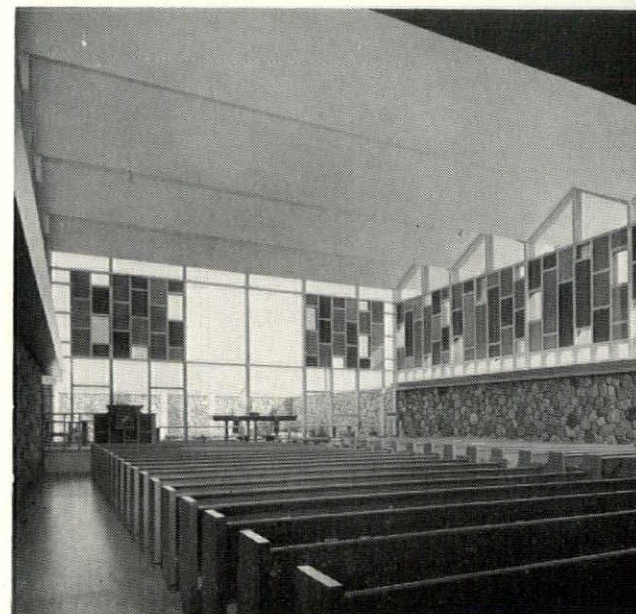
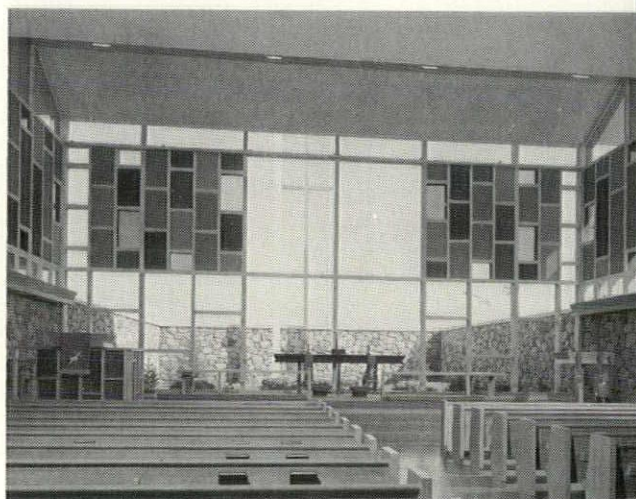
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77. Northern State Bank, Virginia, Minn.—Aguar, Jyring, Whiteman and Moser, Architects

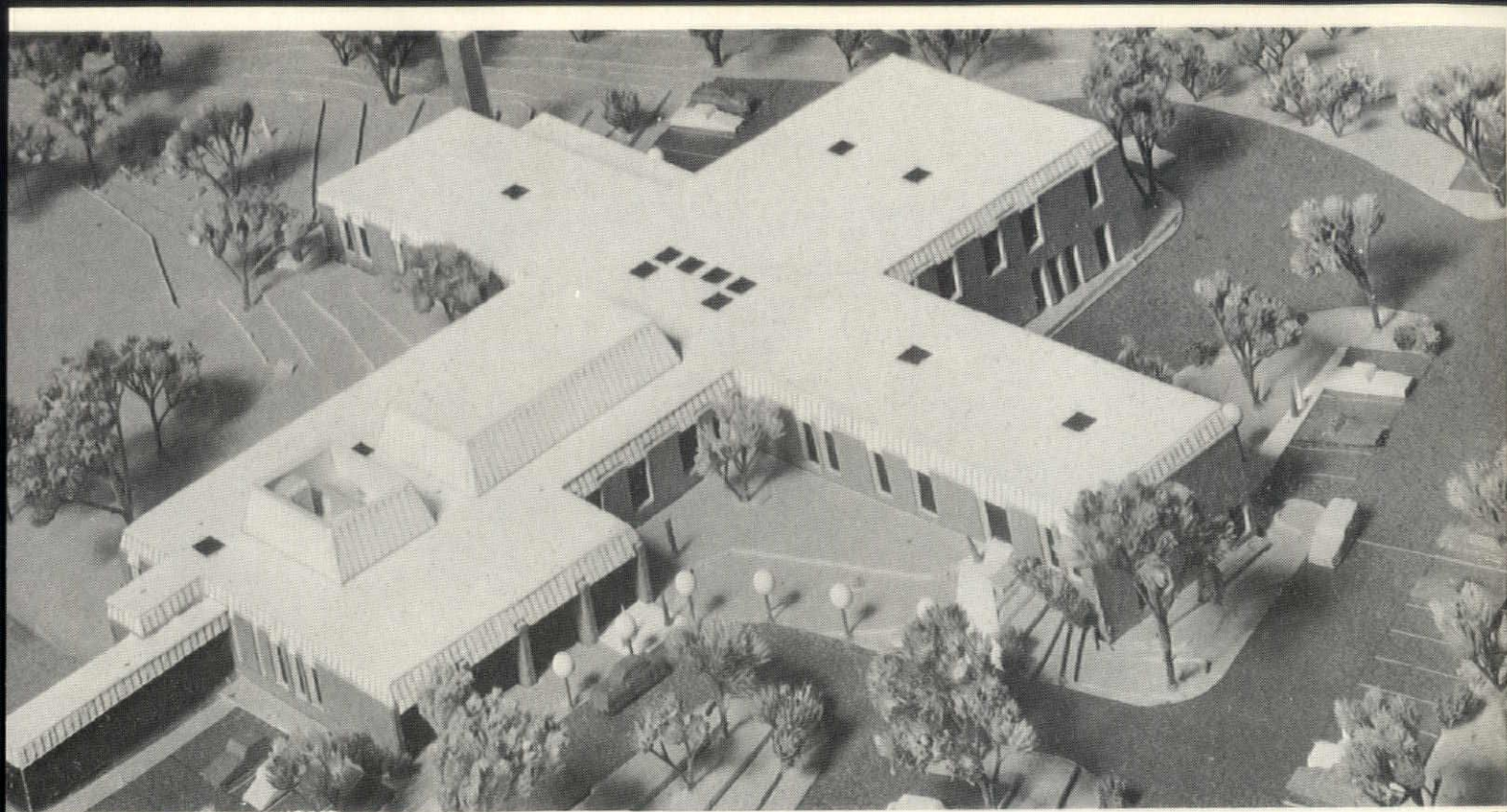
An example of the possibility of retaining the character of an old building and converting it to modern use. This bank was formerly a railroad depot.

78, 79, 80. Gethsemane Lutheran Church, Virginia, Minn.—Jyring and Whiteman, Architects

Features a columnless nave of glass and native stone, with the focal point being a garden court directly behind the altar.



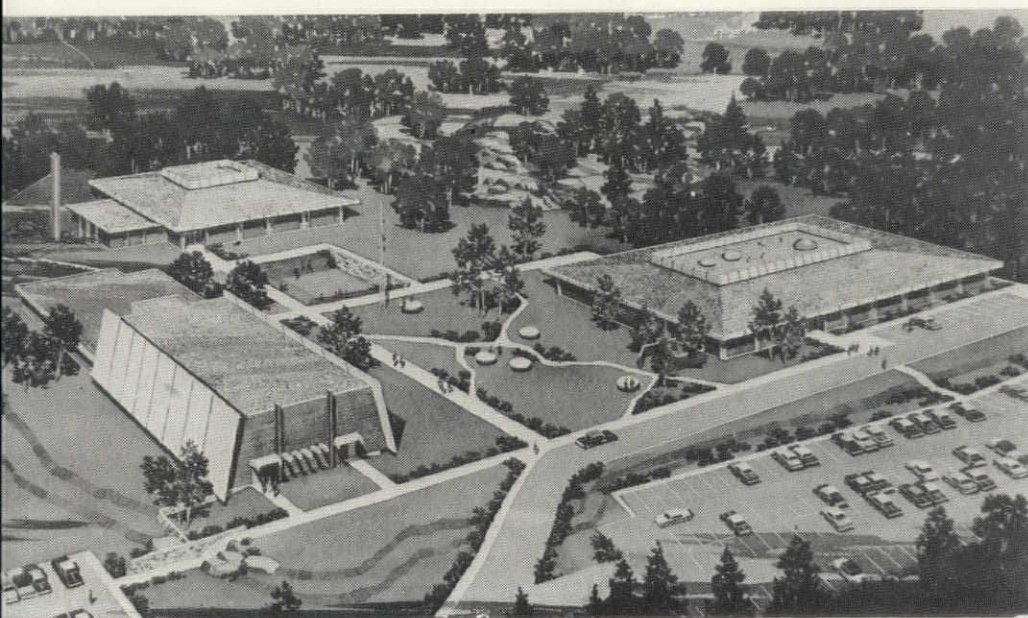
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81



82



83

81. International Falls Hospital — Melander, Fugelso & Associates, Architects

A 63-bed hospital located on the fast sloping bank of the Rainy River. The T-shaped plan features brick walls with canted stone fascia.

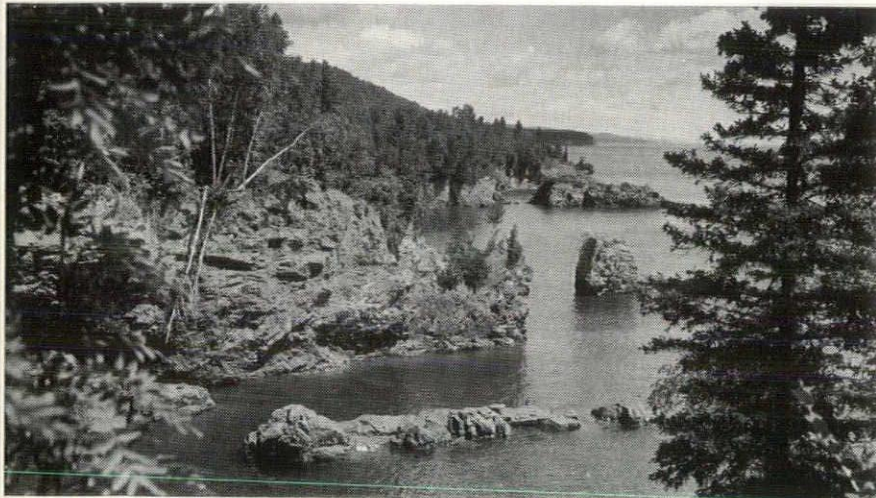
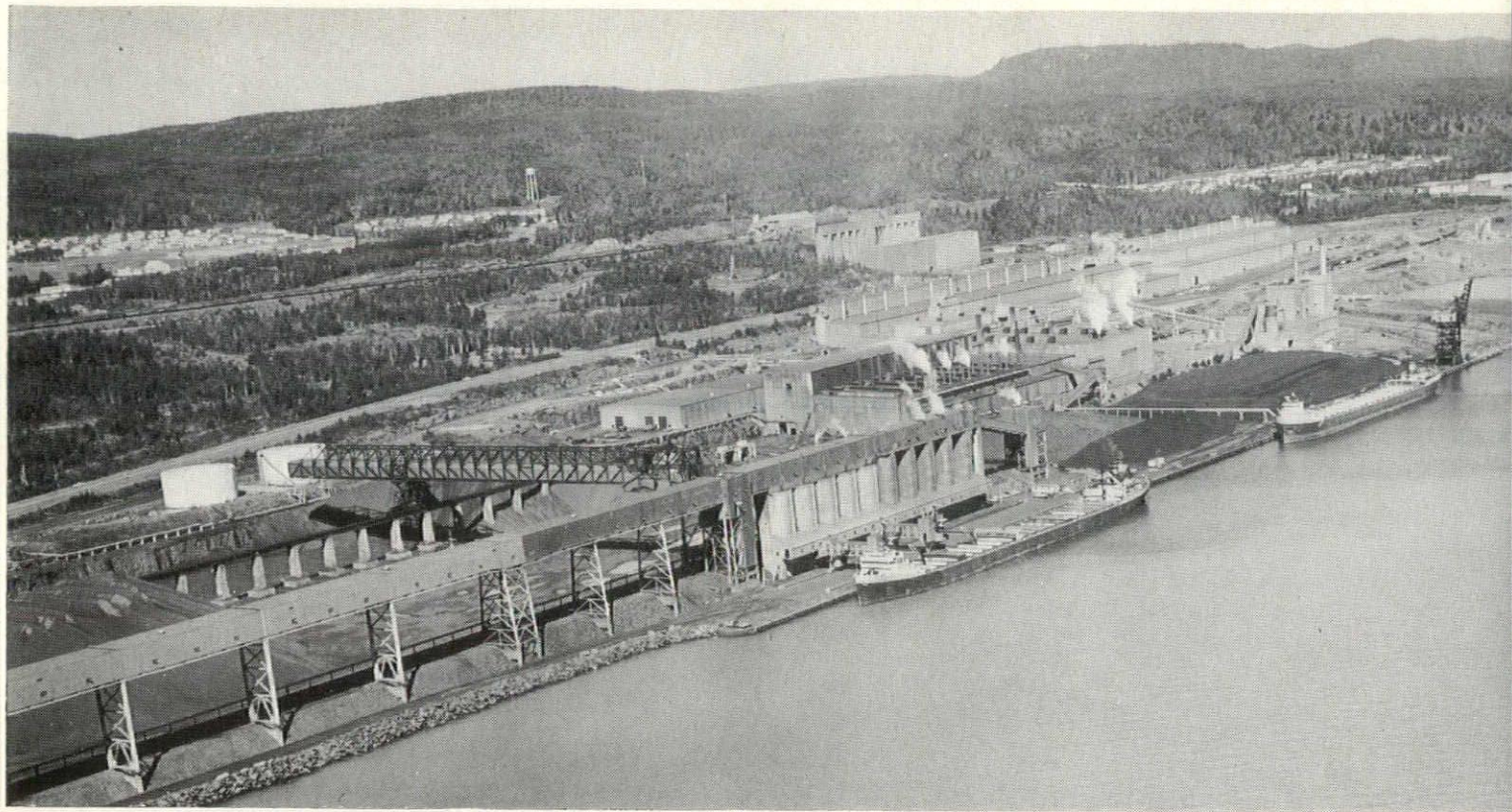
82. Tourist Information Center, Ely, Minn. — Jyring and Whiteman, Architects

Situated on this edge of the wilderness of the boundary waters canoe country, this huge wood beam and stone buttressed structure is the first nature-oriented contact man makes as he starts his journey back into nature.

83. Vermillion State Junior College — Arthur C. Lucas and Associates, Architects

Project conception is a campus plan of three structures: one to house the activities buildings, another for administration and library and the third for all classroom facilities. The site is a 40-acre rocky outcrop with an exceptionally good view of Shagawa Lake.

78



85

84. Taconite Plant with Harbor Facilities, Silver Bay, Minn.

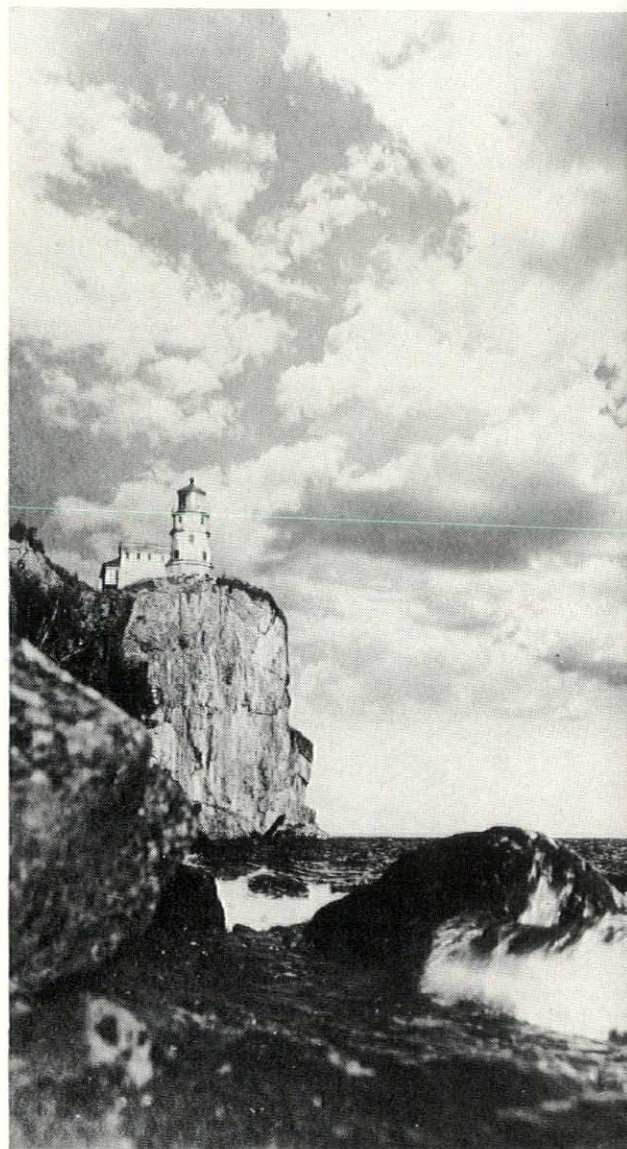
The world's first large scale commercial taconite processing plant.

85. Native State

With its towering rock cliff, free flowing streams and virgin timberland the north shore of Lake Superior is one of the few areas left in our country where the "Mother Nature" still exists.

86. Split Rock Lighthouse

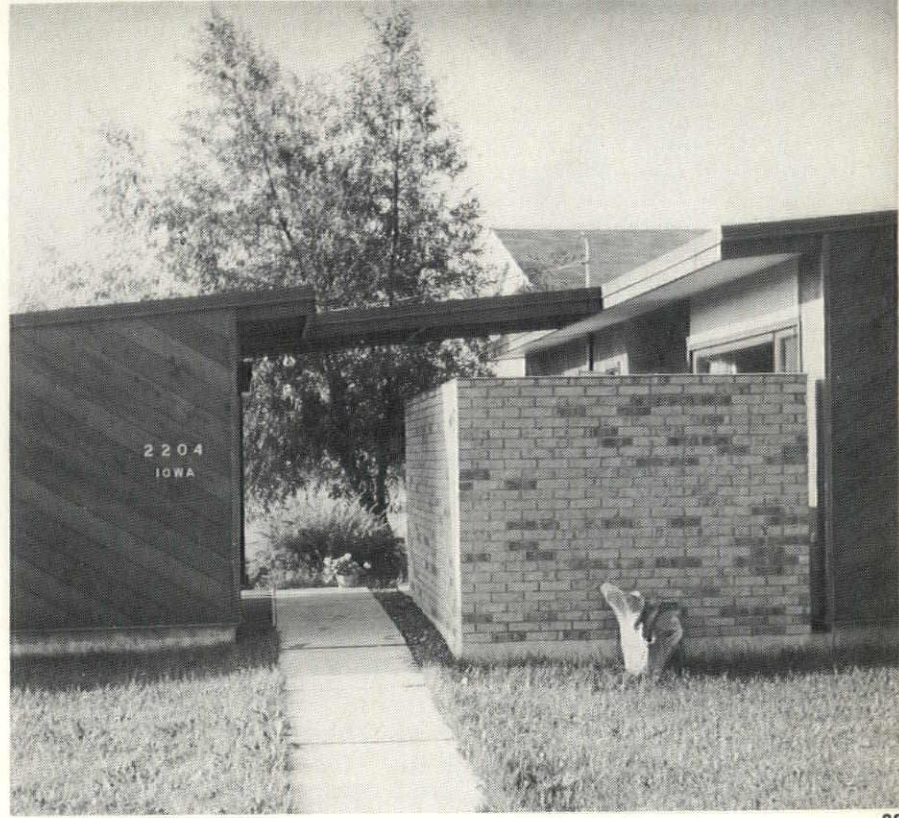
Rising from the rugged shores of Lake Superior, this lighthouse stands in majesty. Cited as the highest lighthouse in the world, its beacon guided ships with a beam that could be seen for a distance of 22 miles. Now outdated, it is in the process of being made into a Minnesota landmark and museum.



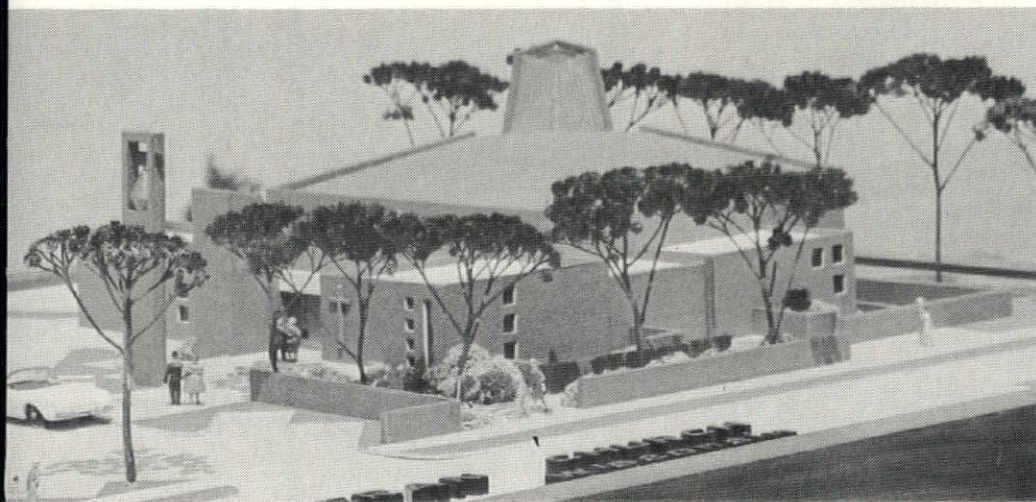
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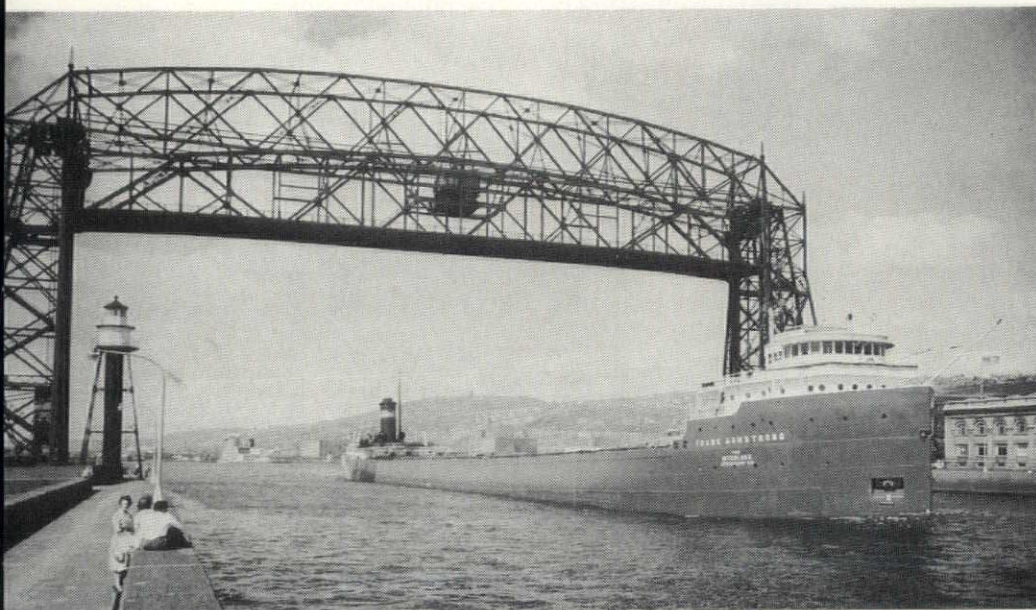
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88



89



90

87 and 88. Marvin Dobberman Residence—Dobberman and Helske, Architects

This 40'x40' home on a small lot in town is designed for privacy, with garden court and skydome lighting.

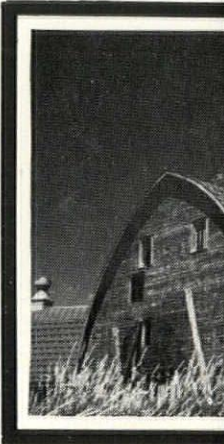
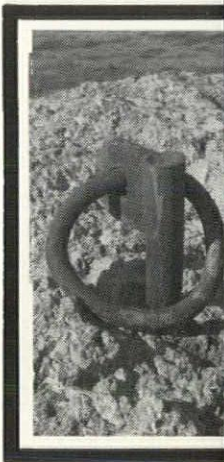
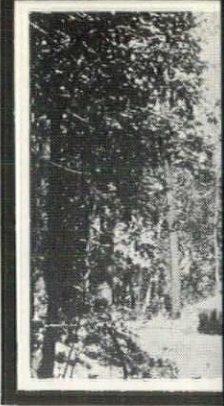
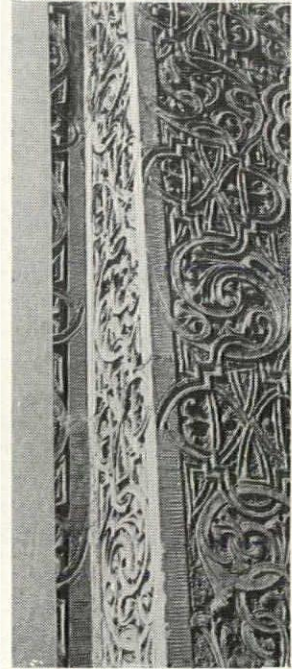
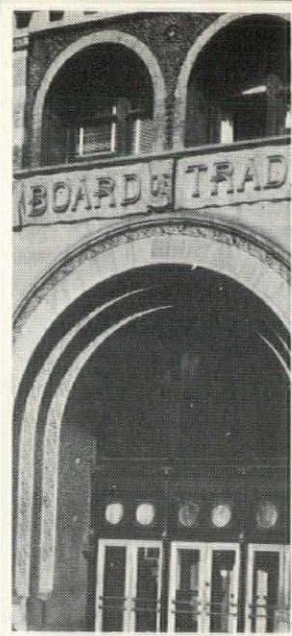
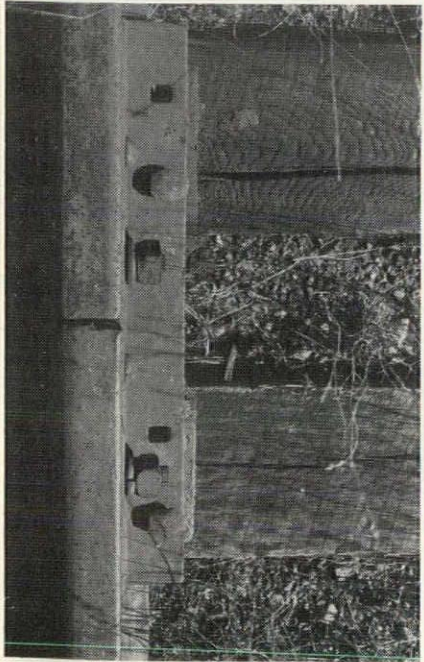
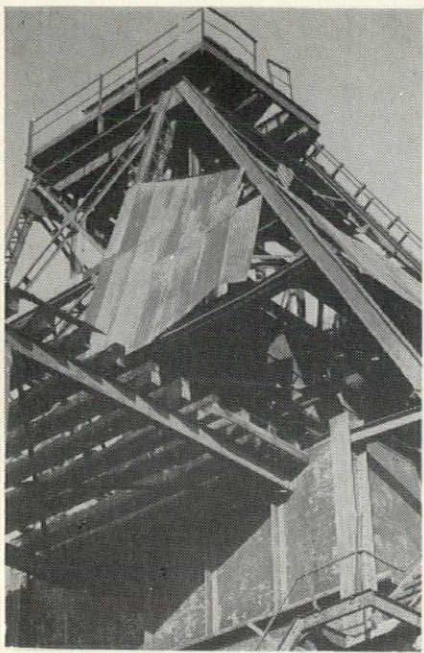
89. Zion Lutheran Church—Thomas J. Shefchik & Associates, Architects

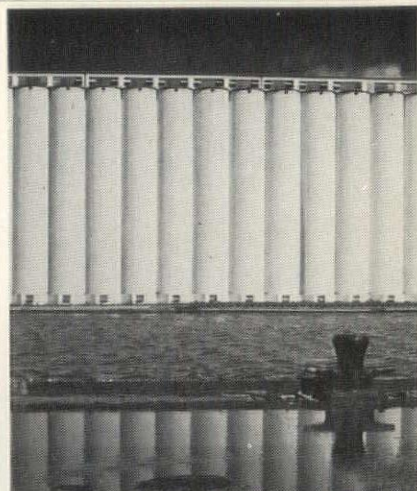
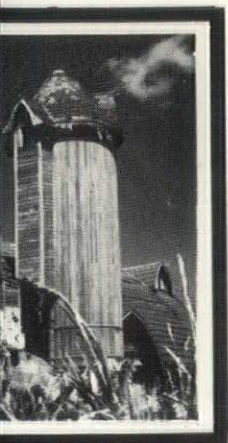
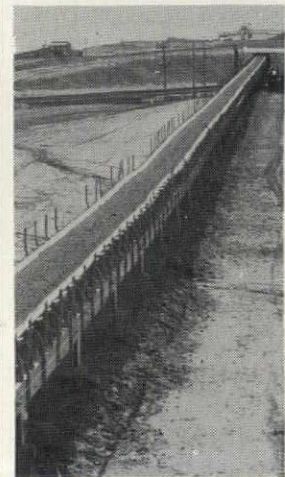
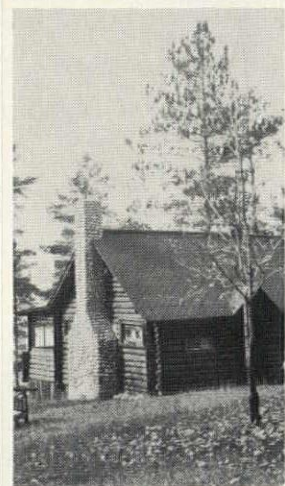
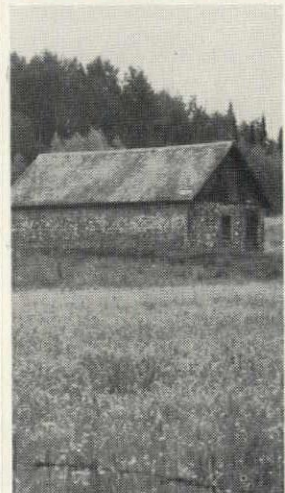
The church is basically a masonry building featuring the nave as its focal point. The nave ceiling is of laminated beams and wood deck with a raised area over the altar. A small prayer chapel reflects the character of the nave.

90. Aerial Bridge, Duluth Harbor

As we leave the harbor, once again the Aerial bridge begins its descent, signifying the end of our Architectural Tour. We hope this tour has been an experience as well as an education for anyone who visits or lives in North-eastern Minnesota.

11
12







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BOOK REVIEWS

BOOKLET CALLS FOR JOINT ACTION TO IMPROVE DESIGN OF CITIES

The business community has been urged to join with public leaders in a concerted effort to improve the design and livability of American cities in a new booklet released by the AIA and the Chamber of Commerce of the United States. The consequences of failure to do so, the publication concludes, can be dire.

Written for the AIA by John Hirten, then executive director of the San Francisco Planning and Urban Renewal Association, the booklet stresses that steady deterioration of our cities is causing enormous business losses and leads directly to higher crime rates, soaring welfare rolls and other urban problems.

Entitled "Form, Design and More Attractive Environment," it points out that to the businessman this urban decay can mean "the loss of billions of dollars invested over the years in real estate, transportation systems and facilities of all kinds." Widespread apathy is pinpointed as one of the chief obstacles to improving city design and failure to take corrective action immediately, it warns, can only result in the continued decline of the quality of city living. One suggestion made is that business and public leaders work together to achieve better urban design, with business asserting dual influence since it builds major sections of the community and plays a crucial role in civic affairs.

In addition the booklet urges that news media play a more prominent role in building awareness for design questions by offering enlightened criti-

cism of a city's architecture. The publication singles out modern building codes and a set of minimum design development standards as constructive action a community might take toward improving design. It also singles out areas where effective action has been taken, such as Philadelphia, Detroit, San Francisco and Reston, Va.

Copies are available from the Chamber's News Dept., 1615 H St., NW, Washington, D. C. 20006. Cost: 1-9 copies, \$2 each, 10-99 copies, \$1.60 each, and 100 or more, \$1.40 each.

AIA PUBLISHES "METHODS OF COMPENSATION . . ." BOOK

"Methods of Compensation for Architectural Services," a major addition to the AIA series of business oriented, educational publications, has just been published by the Institute. Prepared by the Task Force on Compensation Methods, with the assistance of Case and Company, the book is designed to be used as a sound and effective basis for determining the advantages and disadvantages of the various methods in varying applications. Accordingly it opens with a discussion of the philosophical foundation of the structure and the criteria for selecting an ideal pricing method.

In addition to describing the traditional methods of compensation, the book discusses the composite, square-foot, incentive, royalty, client determination of value and modified percentage of construction cost methods. In conclusion, it urges the architect to carefully match the method to the situation.

UN—CONVENTIONAL CALENDAR

The Minnesota Orchestra

- Oct. 31—Mozart's "The Magic Flute," concert version.
Nov. 14—John Ogdon, pianist.
Nov. 21—Isaac Stern, violinist; Thomas Stacy, English horn.

St. Paul Chamber Orchestra

- Nov. 9—Ivan Moravec, pianist.
Nov. 23—Ma Si Hon, violinist; Tung Kwong Kwong, pianist.

University of Minnesota Northrop Auditorium

- Nov. 2—University Symphony Orchestra.
Nov. 6—Richard Siegel, harpsichordist.
Nov. 9, 16—University Marching Band.
Nov. 10—Constance Wilson, voice recital, Scott Hall.
Nov. 15—Festival Chorus.

Minnesota Theatre Company

Tyrone Guthrie Theater

- "Julius Caesar"—Dec. 6, 11, 16 and 19.
"The Beauty Part"—8 p.m.—Nov. 7, 15, 19, 28, Dec. 4, 9 and 18.
"The Homecoming"—8 p.m.—Oct. 25, 29, Nov. 6, 8 and 13.
"Mourning Becomes Electra"—8 p.m.—Oct. 21 and 30.
"Uncle Vanya"—8 p.m.—Nov. 1, 3, 5, 11, 12, 14, 18, 20, 21, 22, 24, 25, 26, 27, 29, Dec. 2, 3, 5, 10, 12, 13, 17 and 20.
1:30 p.m.—Oct. 8, 18, 25, Nov. 8, 12 and 19.

The Children's Theater Company

(Minneapolis Institute of Arts, 11 a.m. and 2 p.m. Saturdays, 2 p.m., Sundays)

- "The Legend of Sleepy Hollow"—Oct. 25, 26, Nov. 1, 2, 8, 15 and 16.

Theater of Involvement

(1209 4th St. SE., 8 p.m.)

"Rhinoceros"—Nov. 7, 8, 9, 14, 15, 16, 21, 22 and 23.

Brave New Workshop

(2605 Hennepin Ave., 8 p.m. Wednesday through Sunday, also 10 p.m. Fridays and Saturdays, midnight Saturdays and 4 p.m. Sundays)

"Sex, Hate and Violence: The American Dream"—through December.

"Sweet Basil and Other Spices"—November, mid-week shows only.

"The Nice Show: The Show that Don Morrison and Will Jones Won't Talk About"—December, weekends only.

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"Citizen Kane"—Orson Welles—Fri.-Sat., Nov. 7-8.

"The Magnificent Ambersons"—Orson Welles—Sun.-Mon.-Tues., Nov. 9-10-11.

Campus Theater, Minneapolis.

The Minneapolis Institute of Arts

Look Back: Cubist Paintings—through Oct. 26.

Toward a Social Landscape—Oct. 1-Nov. 2.

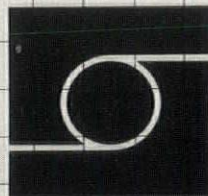
Dreamer of Dreams, Seer of Visions—through Nov. 5.

Architecture of Museums—Oct. 16-Nov. 16.

Winslow Homer, prints and drawings—Dec. 11-Jan. 4.

Rembrandt—Dec. 23-Feb. 11.

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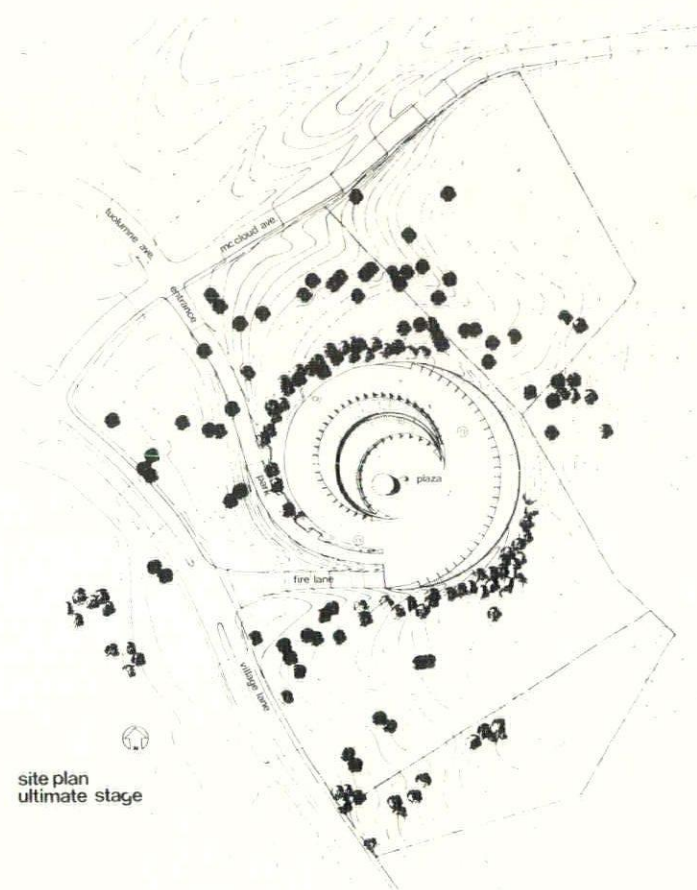
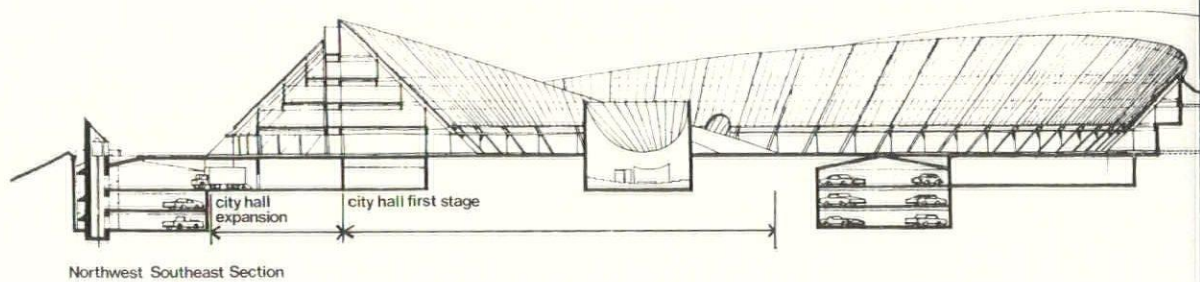
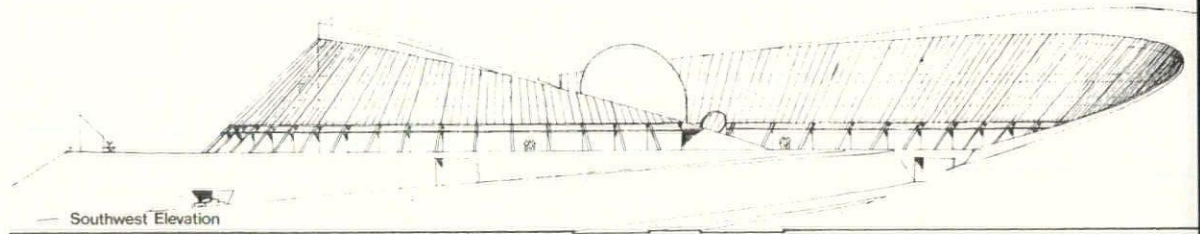
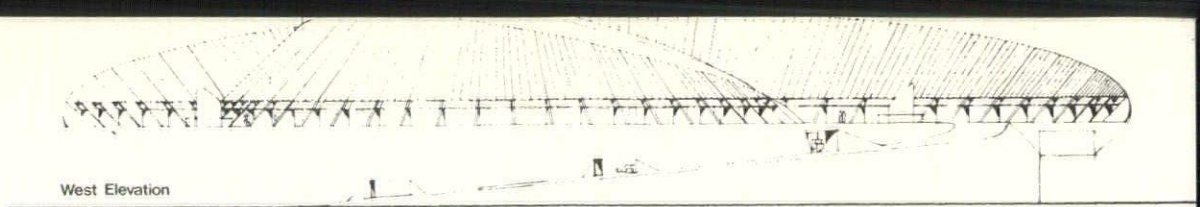
Twin Cities Competition Entries On Display in Los Angeles

The results of the national competition for the Thousand Oaks (California) Civic Center have just been announced.

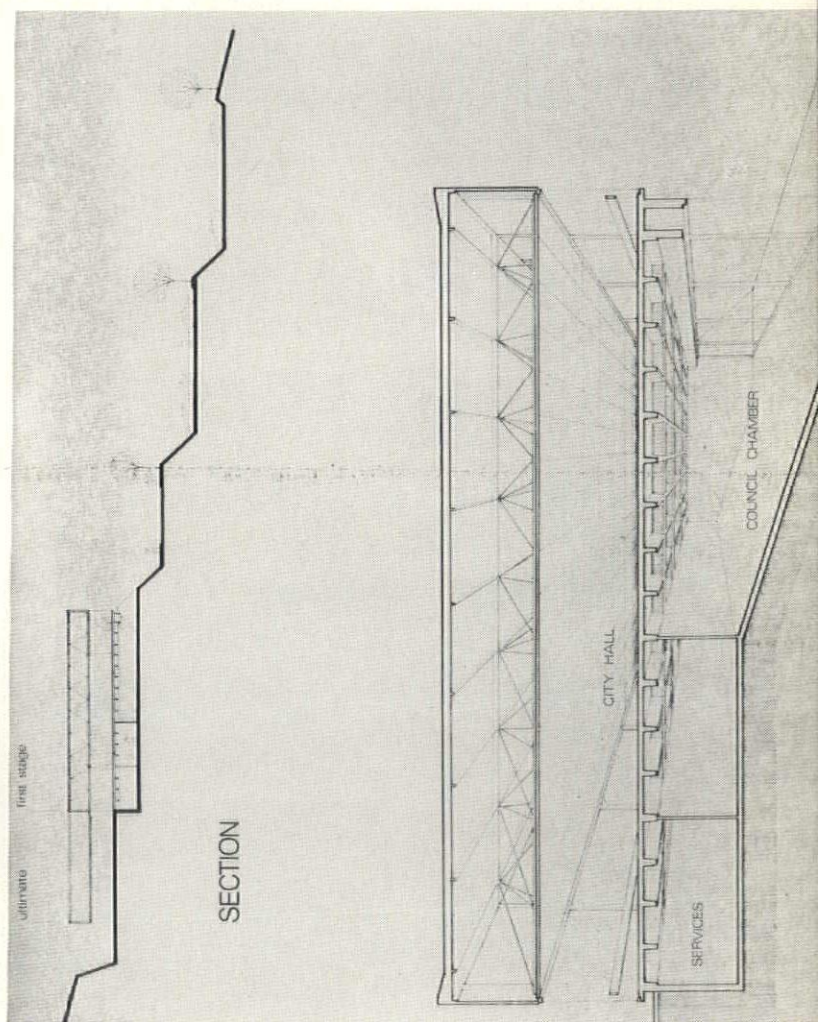
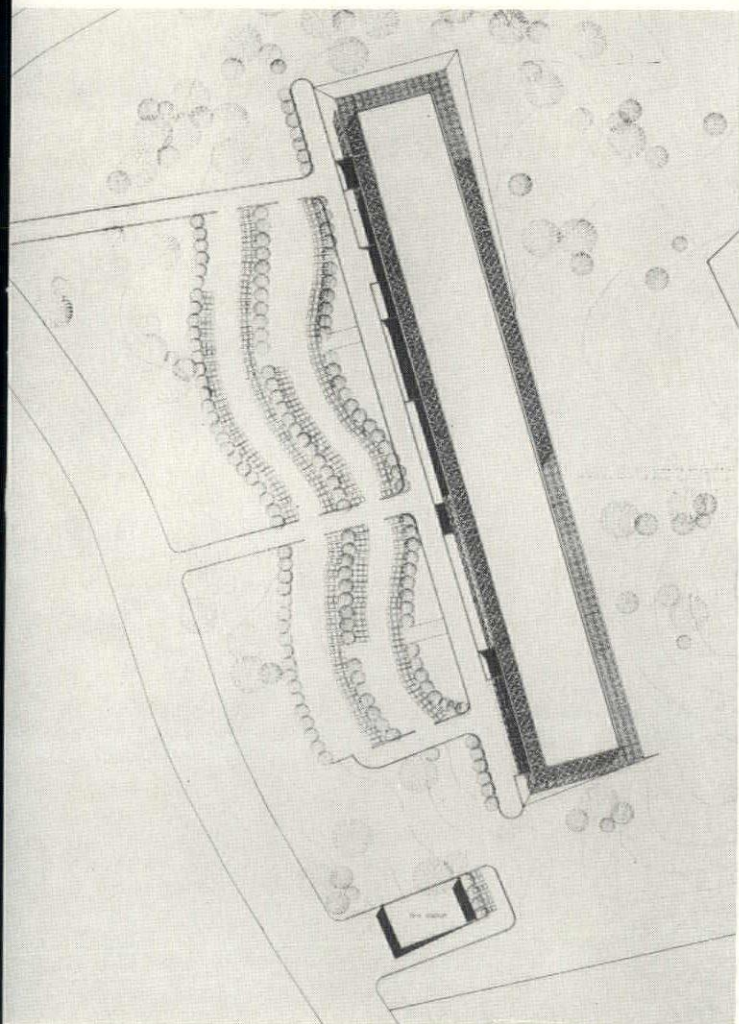
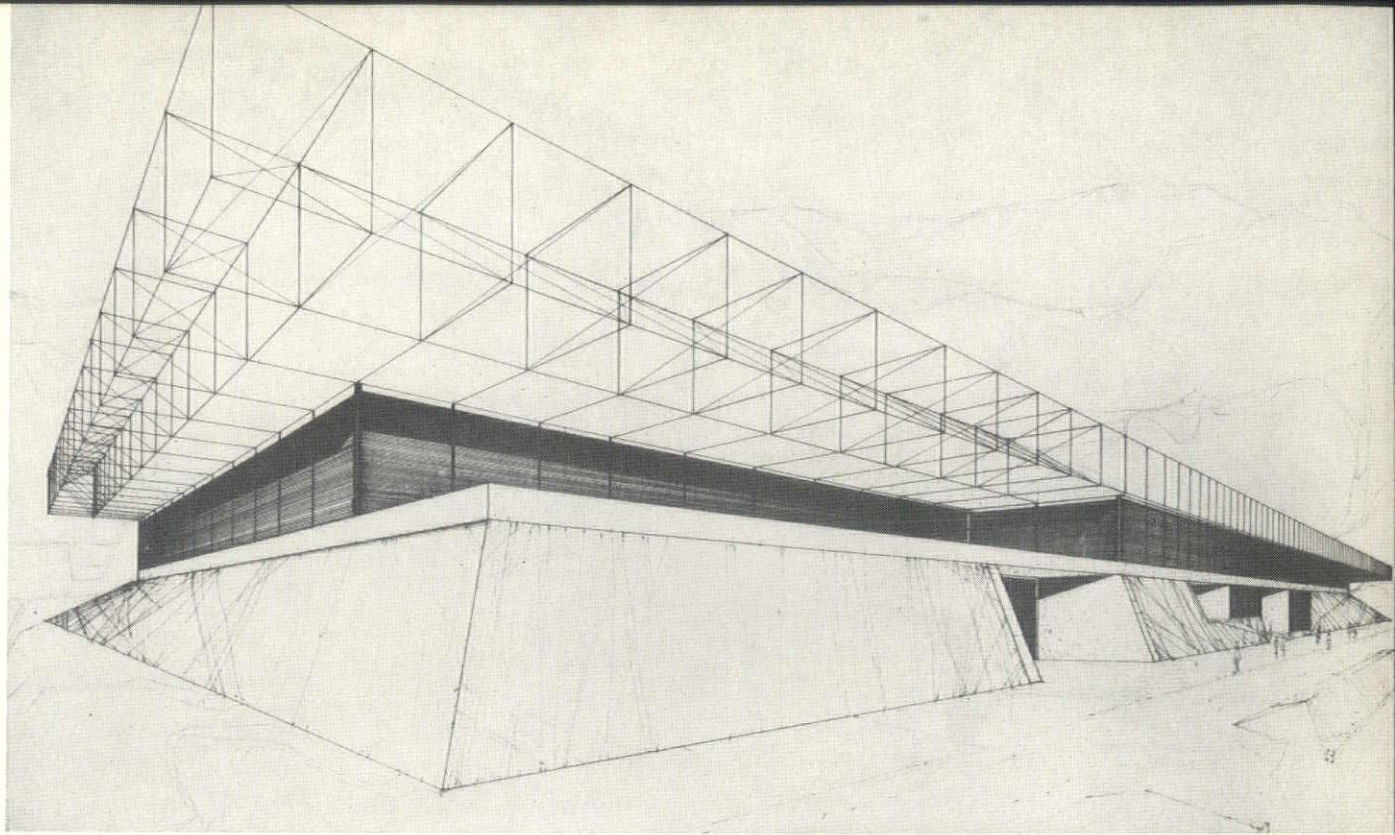
The jury, consisting of Charles W. Moore, Cesar Pelli, Jan C. Rowan, George W. Davis and Dr. Raymond Olsen, awarded the first prize to Robert Mason Houvener of San Diego, California.

Three additional prize entries, seven honorable mentions and a number of other distinguished design submissions selected by the jury are on display in the California Museum of Science and Industry in Los Angeles. Among the latter are the following designs by Twin Cities' architects.

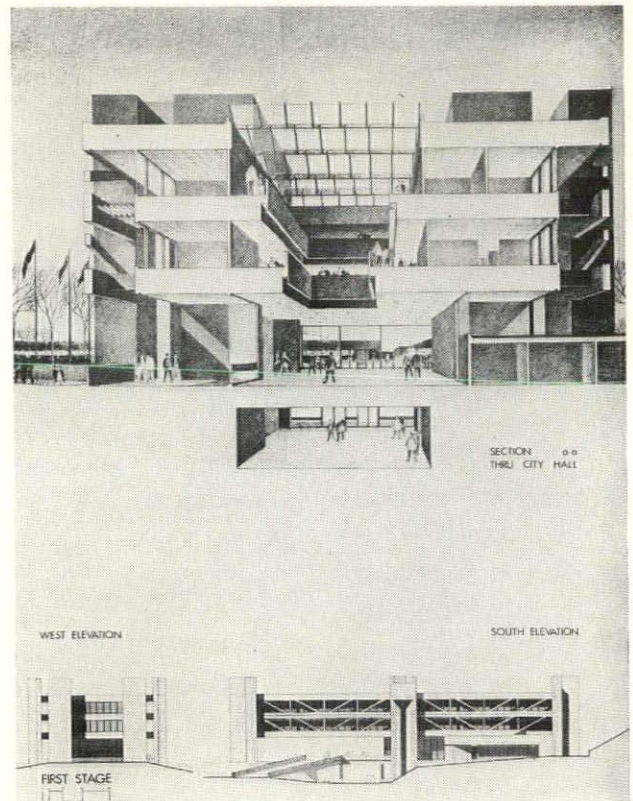
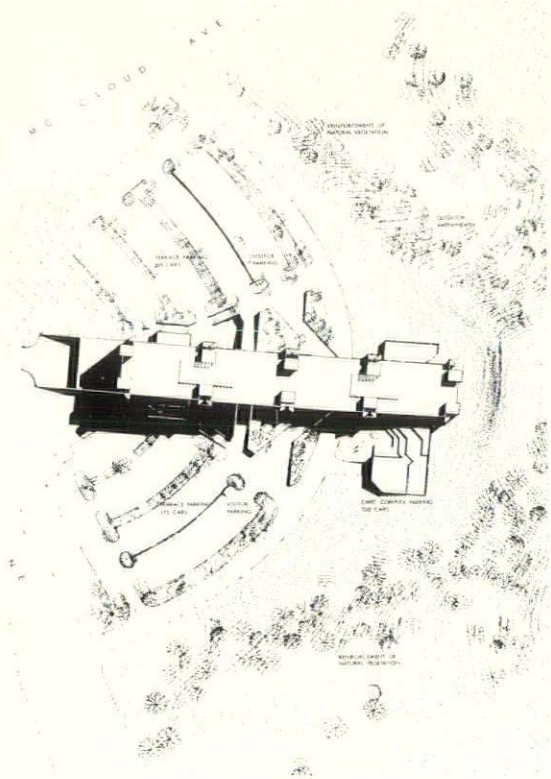
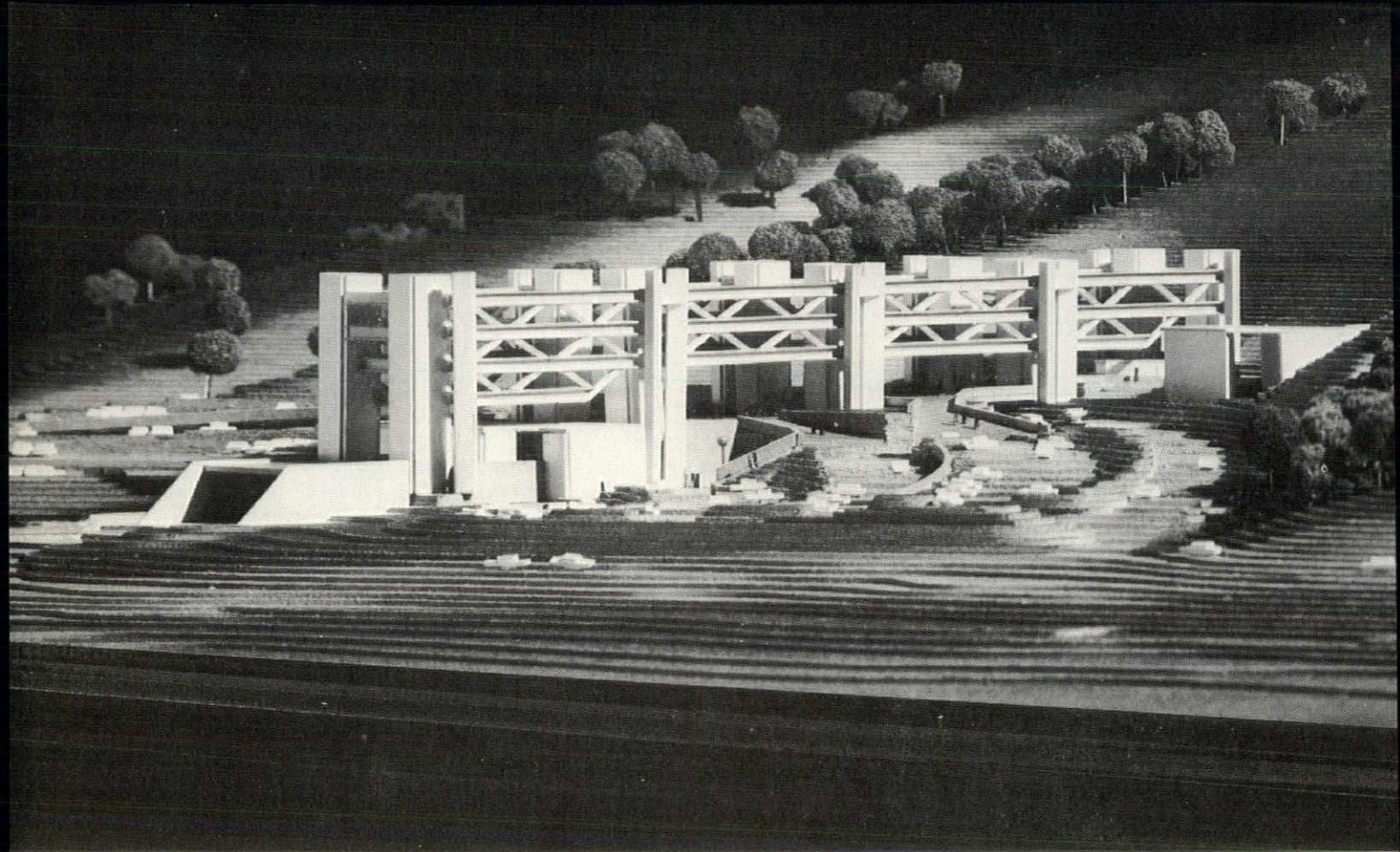




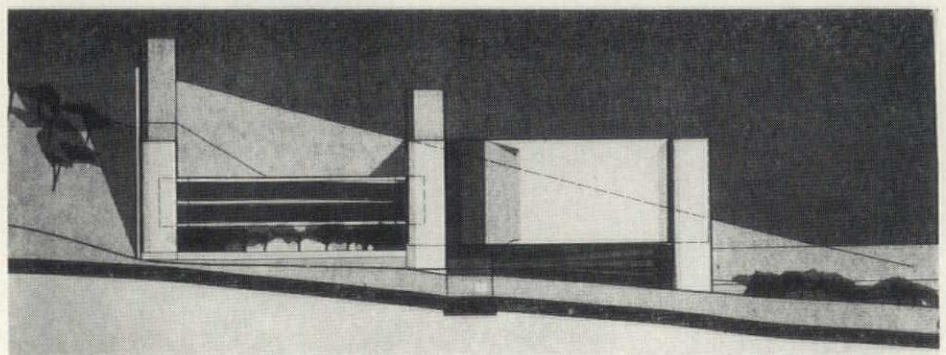
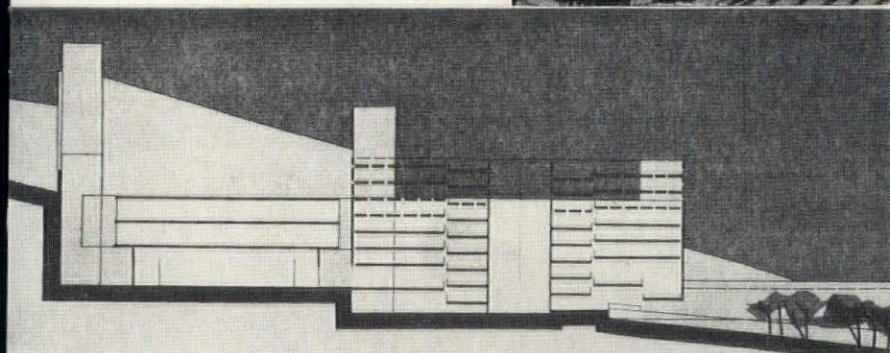
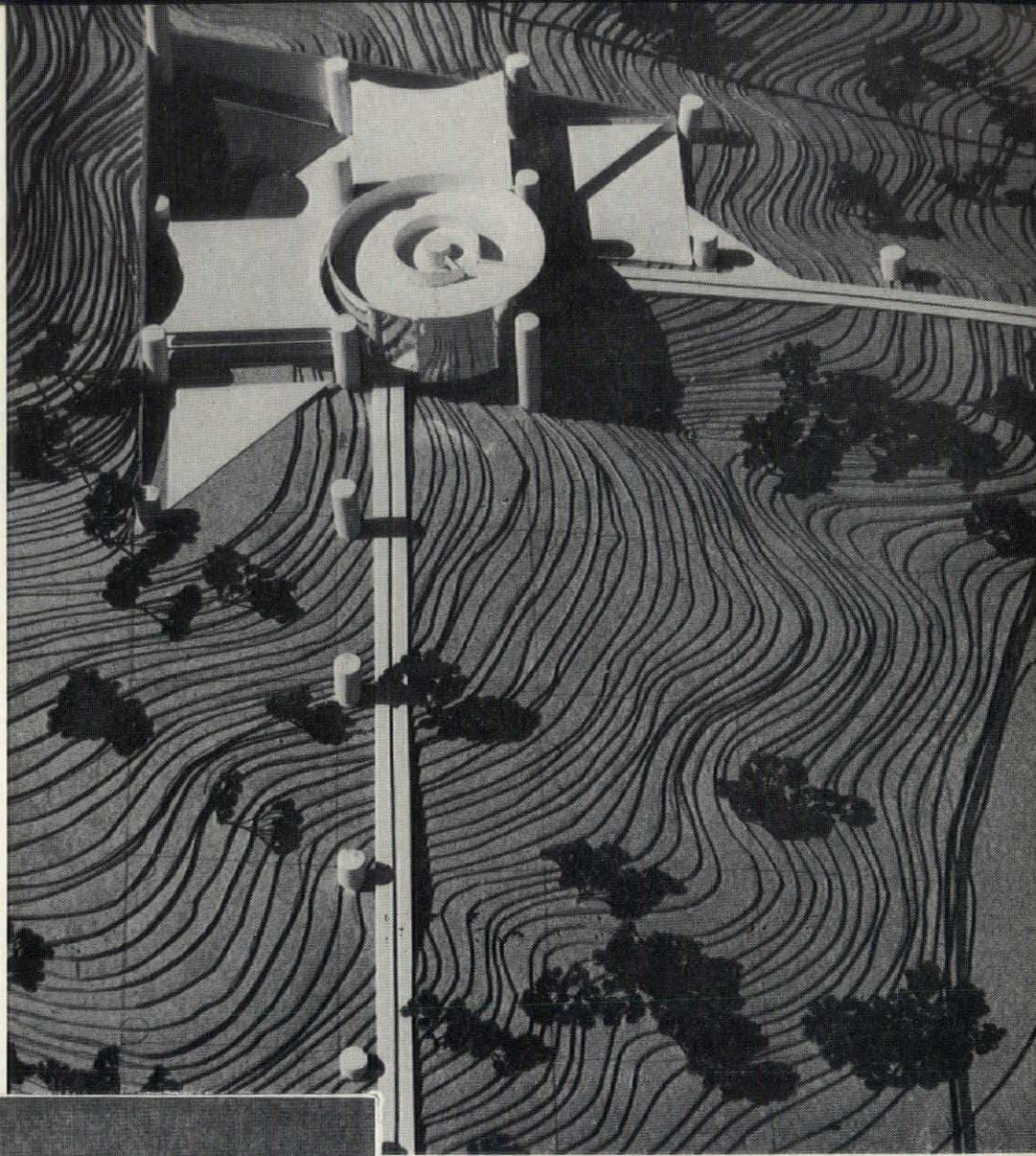
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Charles E. Sullivan, Phillip Olander, L. Linn Day
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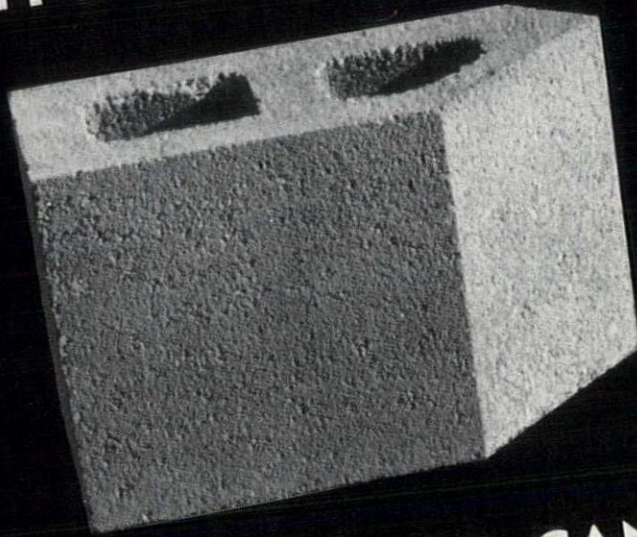


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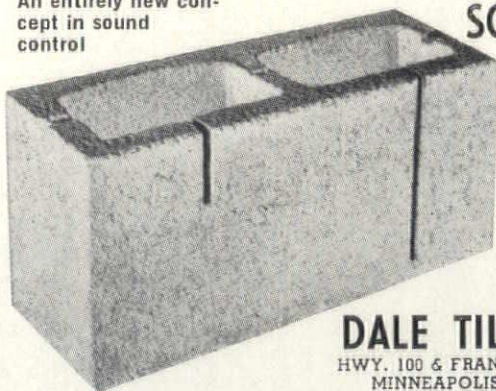
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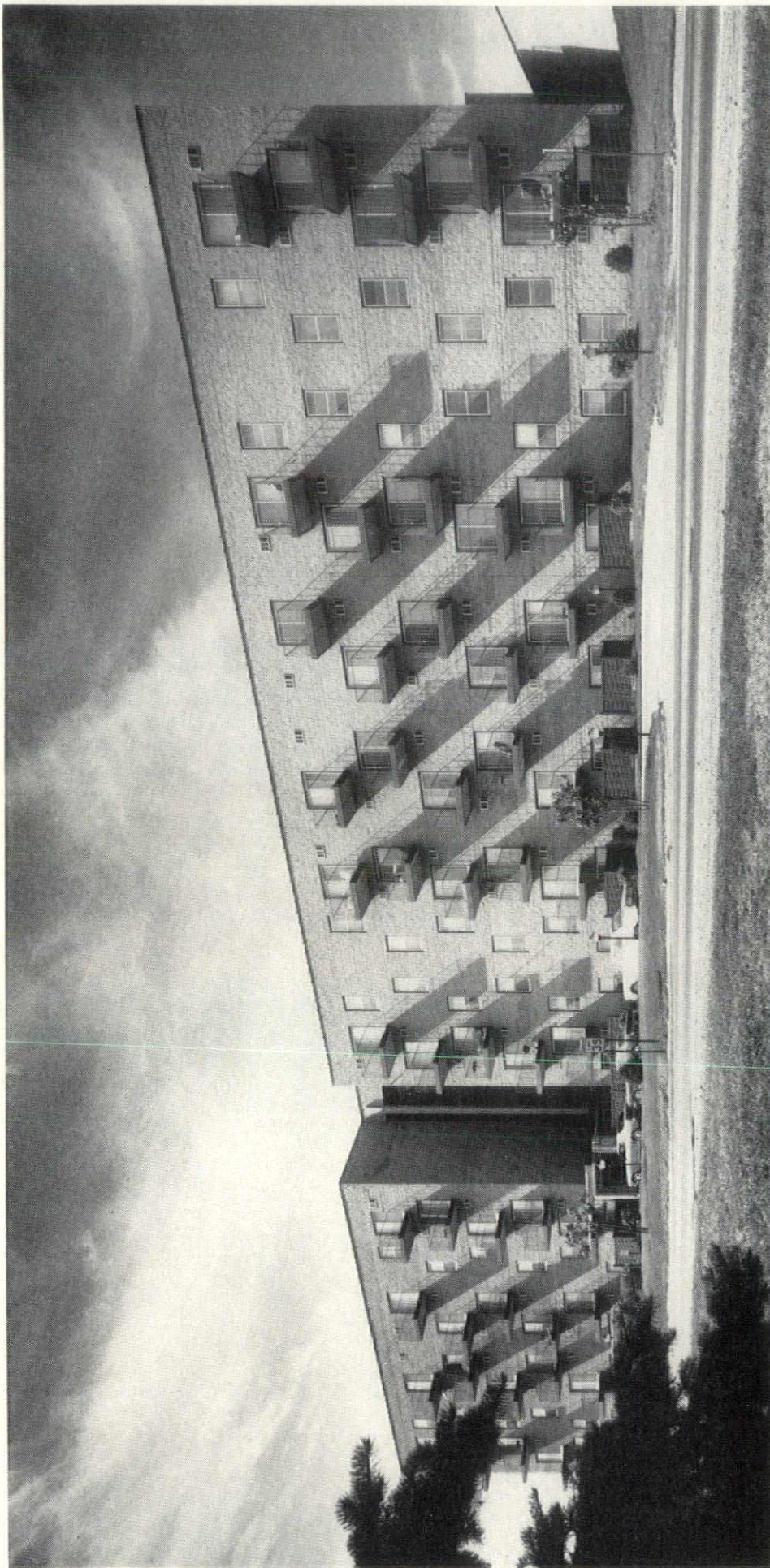
Architect: Grover Dimond

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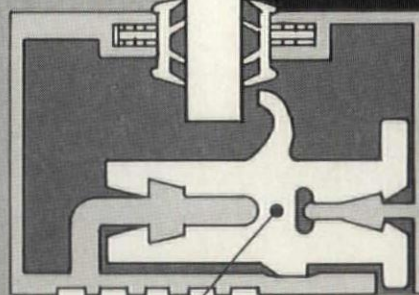
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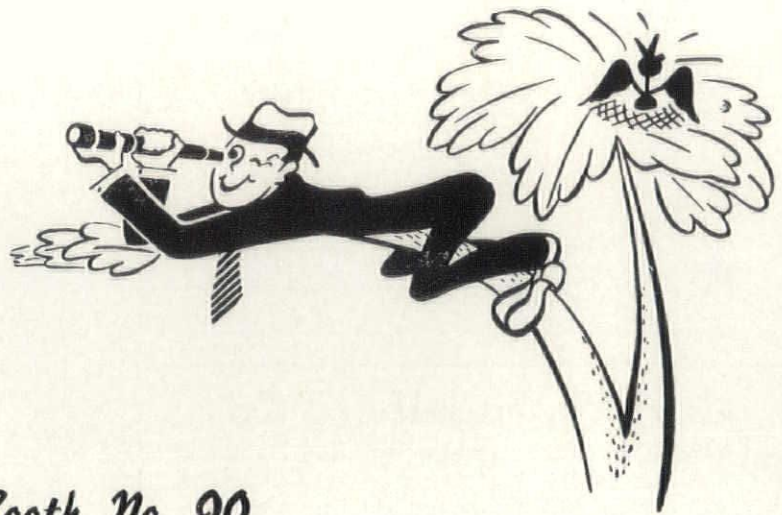
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Area Notes

(Continued from Page 4)

Included in the West Acres Development Corp., a Fargo, N. D., group formed to construct a \$16 million shopping center, is **M. O. Foss**, Moorhead, Minnesota, architect.

... AND PROJECTS

MINNESOTA

An "ensculptic" (environmental sculpture in plastic) house is being built in Minnetrista under the supervision of its designer, architect **Winslow Wedin**, professor of architecture at Auburn University in Alabama, and with the help of some of his students. The tent-like structure is of burlap sprayed with plastic and urethane foam. Wedin, son of the well-known artist Elof Wedin, is a 1959 graduate of the University of Minnesota.

In a rare public display of commitment to a good cause, the **Minneapolis AIA Chapter** issued a letter of support for the county-based General Hospital bond issue. The subsequent approval by 90% of the voters showed that there is no lack of public support for clearly worthwhile projects.

Design of the new Hennepin County Library branch in Golden Valley has been awarded to **Kilstofte and Vosejka**, Wayzata. Construction of the one-story and basement building will be brick with a timber roof.

New school projects: An elementary school in Chaska, an elementary school, remodeling of the junior high school and an addition to the senior high in Shakopee, all by **Armstrong, Schlichting, Torseth and Skold**, Minneapolis; an addition to the Argyle school by **Wells, Denbrook and Associates** of Grand Forks, N. D.

Interest in the reclamation of the Mississippi River as it winds its largely hidden way through Minneapolis was stimulated by the recent two-day **Urban River Conference** sponsored by the Minnesota Society of Architects and the University of Minnesota. Highlights were boat tours of the river between the University Showboat landing and the Edgewater Inn at 2420 Marshall Ave. N.E., a banquet in the Minneapolis Art Institute with an astringent after-dinner speech by Ian McHarg, planner and ecologist from the University of Pennsylvania, and an all-day conference including visiting and local notables.

Miller and Melby Architects, Minneapolis, are designers for a proposed golf course at Mountain Lake, Minn.

Honors: **Griswold and Rauma, Architects**, and the Knutson Construction Co., both of Minneapolis, were recently awarded Navy Certificates of Commendation for their outstanding performances in the designing and the construction of the new Naval and Marine Corps Reserve Training Center there. **The Cerny Associates'** Brunswick Methodist Church in Crystal was awarded an honorable mention by the Liturgical Conference of Washington, D. C., one of five churches throughout the country so honored.

Architects for the new Control Data research and manufacturing building at its headquarters in Bloomington are **Henningson, Durham and Richardson** of Omaha, Neb.

Design services for the \$40 million health sciences expansion program at the University of Minnesota will be furnished by Health Sciences Architects and Engineers, Inc., a consortium of three Twin Cities architectural and engineering firms: **The Cerny Associates, Setter, Leach & Lindstrom, Inc.**, and **Hammel, Green & Abrahamson, Inc.** The office will be headed by **Brooks Cavin**.

Honors: Two St. Paul firms were honored at the annual session of the American Association of Medical Clinics in New York: a First Honor Award to **Hammel, Green & Abrahamson, Inc.**, for their Minnesota Clinic of Psychiatry and Neurology in Golden Valley, and to **Ellerbe Architects and Chambliss Associates** of Grand Junction, Colorado, for the Glenwood Medical Associates Building in Glenwood Springs, Colo. **WISCONSIN**

A 157-unit apartment building for the elderly, sponsored by the Superior Catholic Charities Bureau, is to be built in Superior. Architects are **Aguar-Jyring-Whiteman-Moser, Duluth**. A 54-unit structure on the banks of the Wisconsin River near downtown Rhinelander is being designed by **Hirsch, Stevens and Samuelson** of Hudson.

The 10-year-old County-City Building in Stevens Point is to be enlarged to provide more jail space, another courtroom and other facilities. **Ray Gauger**, St. Paul, architect of the original building, is preparing plans.

A new \$3¼ million court house is being planned for Eau Claire. Architects are **Larson-Playter-Smith**. **Paul Hallbeck and Associates** are architects for a \$95,000 fire station on the far north side of the same city.

The Chippewa Falls school building program includes an addition to Hillcrest elementary school, an industrial arts and library wing for the Senior High School, and a new 20-room elementary school. Architects are **Larson-Playter-Smith**.

Studies for the future use of Lincoln High in Wisconsin Rapids have been made by **Warren Holmes Co.**, Lansing, Mich.

Thern and Associates, Oshkosh, have been hired to design an addition to the Portage high school.

A program of assistance in community renovation programs is being offered without charge by the **Sectional Environmental Design Committee** of the Wisconsin Chapter of the AIA. An early beneficiary is the village of Deerfield with its program of Norwegian store fronts.

A new Wisconsin Synod parish is building a fellowship hall as the first unit of its program in Eau Claire. **D. D. Anderson** of Milwaukee is the architect. A new Lutheran church now being built in Glenwood City is designed by **Ozolins, Gavic and Gavic** of Spring Valley.

Design of a new vocational and adult education building in Portage and Reedsburg is to be by the Fort Atkinson architectural firm **Kettle Moraine Associates, Inc.**, the new name of Waterman, Fuge and Associates.

Studies for a second high school for Oshkosh are being prepared by **Sauter Seaborne Ltd.** of Appleton. Tentative construction budget is \$6 million.

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Directory of Behavior and Environmental Design
—Published by the Research and Design Institute, Providence, R. I., the directory provides a biographical listing of more than 250 professionals in 34 disciplines concerned with environmental design research and includes indices by both discipline and research activity and a listing of interdisciplinary journals on behavior and design. Order from Research and Design Institute, P.O. Box 307, Providence, R. I. 02901. Cost: \$3.

New Zoning Landmarks in Planned Unit Developments—Study on planned unit residential developments and their public and legal ramifications, covering landmark decision by Pennsylvania Supreme Court. Order from Urban Land Institute, 1200 18th St., NW, Washington, D. C. 20036. Cost: \$6.

New Spaces for Learning—Designing college facilities to utilize instructional aids and media. Published by Rensselaer Polytechnic Institute. Order from Educational Facilities Laboratories, 477 Madison Ave., New York, N. Y. 10022.

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Minnehaha Country Club
in Sioux Falls, S. D.

TERNE TODAY

The use of terne metal to plate steel as a protection against corrosion goes far back in structural history but today is still being used in modern designs. Weight, flexibility and other factors are considered by architects as they balance design needs against materials' characteristics, according to Follansbee Steel Corp., of Follansbee, W. Va., one of the producers of terne coated materials.

A funeral chapel, a country club and a residence are among recent designs in the Northwest which utilized terne metal to solve special problems and avail themselves of the material's special characteristics.

A significance in the chapel roof projections and twin elevated penthouse areas have been provided by Bettenburg, Townsend, Stolte & Comb of St. Paul, for the Simonet Funeral Home, Stillwater, Minn.

Preliminary designs called for brick covering in these areas but supporting the brick on wood framing presented a structural problem. The choice of terne metal was the answer. When painted a brown-olive the terne roof caps aided in unifying the brick veneer, the architectural whole and the surrounding landscape.

Through their design of an attractive new clubhouse, cabana surrounded swimming pool and parking facilities for the Minnehaha Country Club in Sioux Falls, S. D., Harold Spitznagel & Asso-

ciates can take some degree of credit for doubling the number of active golf players since it was built.

The clubhouse replaced a fifty-year-old structure dear to the hearts of the older members, requiring a major sales effort to put the new building and pool across.

An important element in the overall design of the country club complex is a Bermuda-cupola styled terne metal roof painted gray green, which serves to unify and cap the various elements of the complex and tie it in with the surrounding links. Terne's history for long-lasting weather protection and economy of maintenance played an important part in its choice.

Although the final cost of the total complex was approximately \$1,000,000, it has proved to be well worthwhile, according to club management. The pool has offered the avid golfer an opportunity to bring the family for the day,

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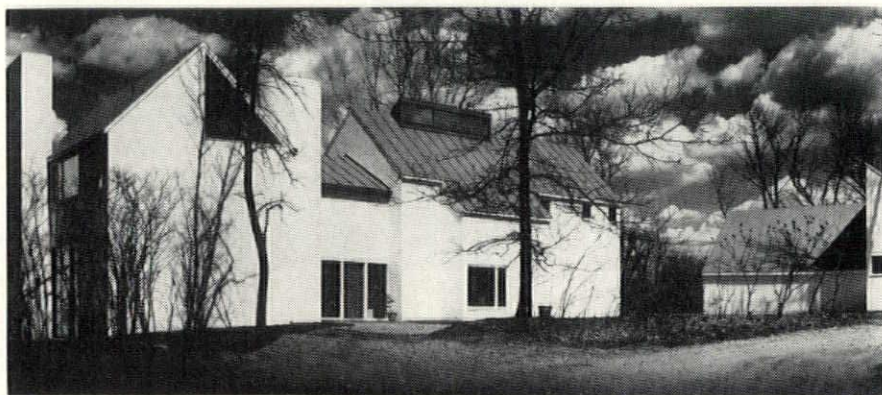


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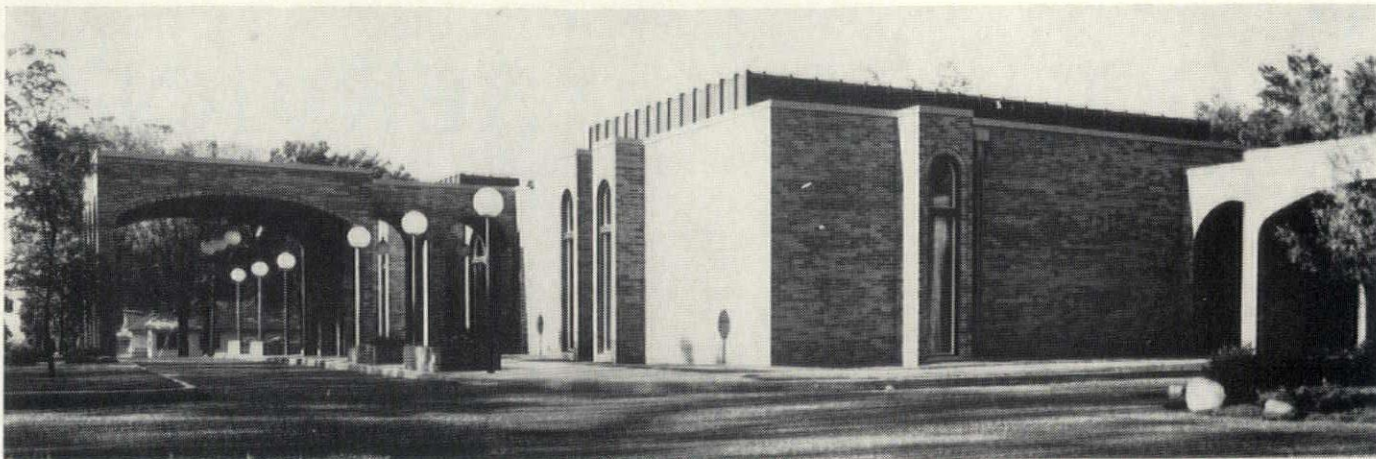
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The Weitz residence in Des Moines, Iowa

NORTHWEST ARCHITECT



Simonet Funeral Home in Stillwater, Minn.

having the effect of a marked increase in actual golf playing.

In his design of a country residence in Des Moines, Iowa, Architect John D. Bloodgood achieved a harmonious marriage between a classic "old tin farm roof" with contemporary architectural design that relates to its surrounding rural setting.

The metal "planked" look in the large shed roof areas, recalling the farm roofs of earlier days, was achieved with a standing seam application of terne metal. When painted a gray-green, the roof unified the architectural elements and combined with the off-white stucco exterior and "barn" red entrance door.

In the light of its use the stem of the word "terne" is interesting for it derives from words originated by and borrowed among several basic European languages meaning to tarnish! However, reference is to the dull finish which terne creates, resembling in the minds of those who borrowed the word a tarnished or dulled surface.

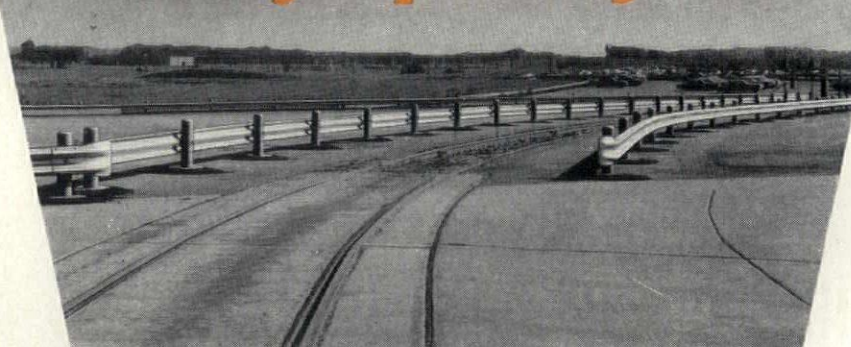
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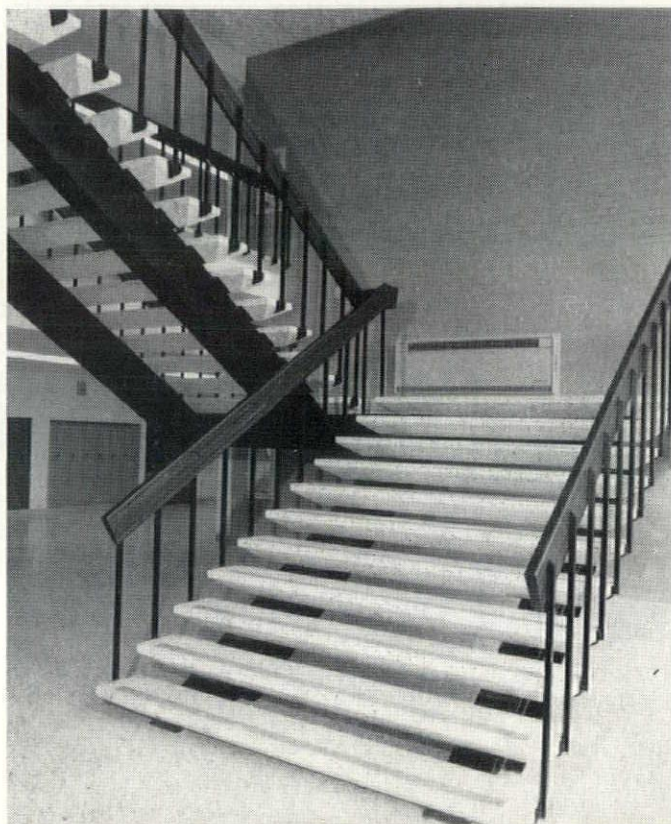
S. Davis as technical service representative for this Iowa-based brick and tile manufacturing operation. Mr. Davis will provide technical service to the architectural, construction and agricultural

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A 1963 graduate of Iowa State University, Mr. Davis was previously director of Structural Clay

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Products Institute's Region 6 in Ames, Iowa, and will now office at 3810 Ingersoll in Des Moines, Iowa.

He is a member of The American Society of Agricultural Engineers, Soil Conservation of America and Construction Specifications Institute.

AUSTRIAN INVITATION

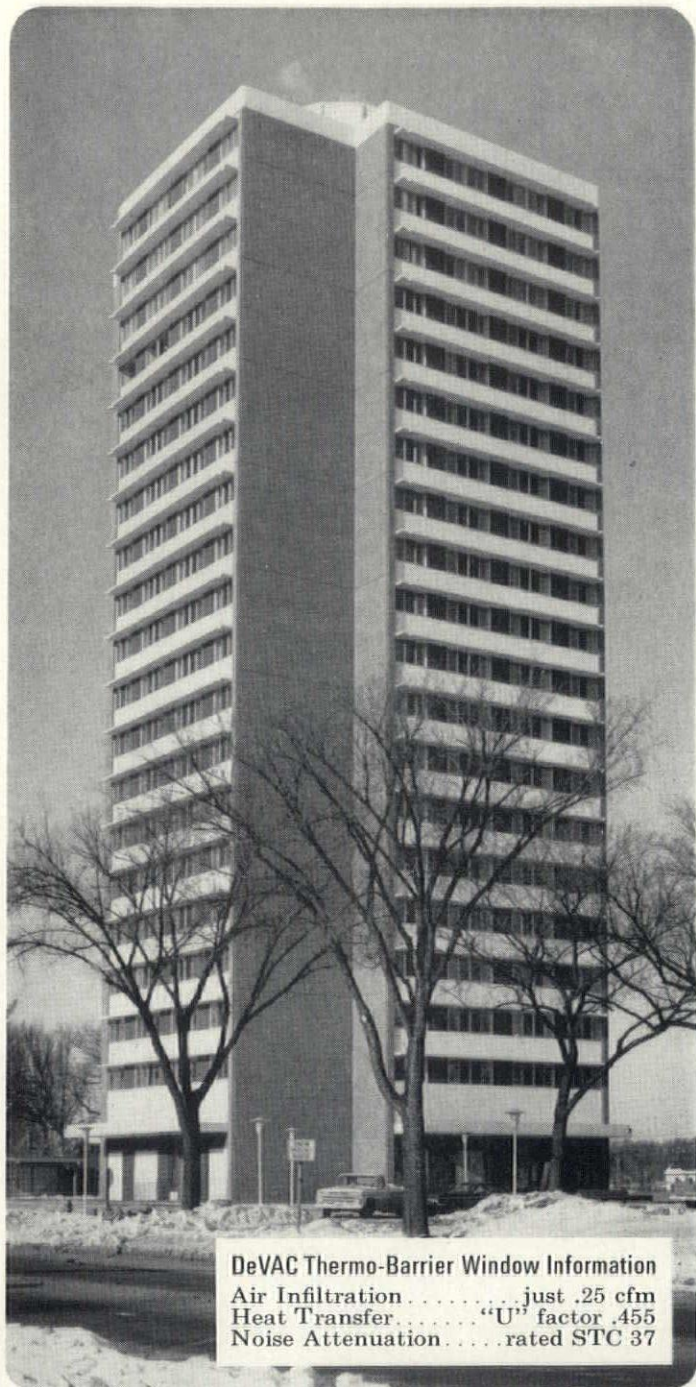
"The Magistrat of the Austrian Federal Capital, Vienna, invites American architects to participate in an international competition to obtain designs for the Vienna International Gardenshow 1974 (buildings included). All queries concerning details of the competition shall be addressed to the Stadtgartenamt, A-1010 Vienna/Austria. The competition ends on January 9, 1970.

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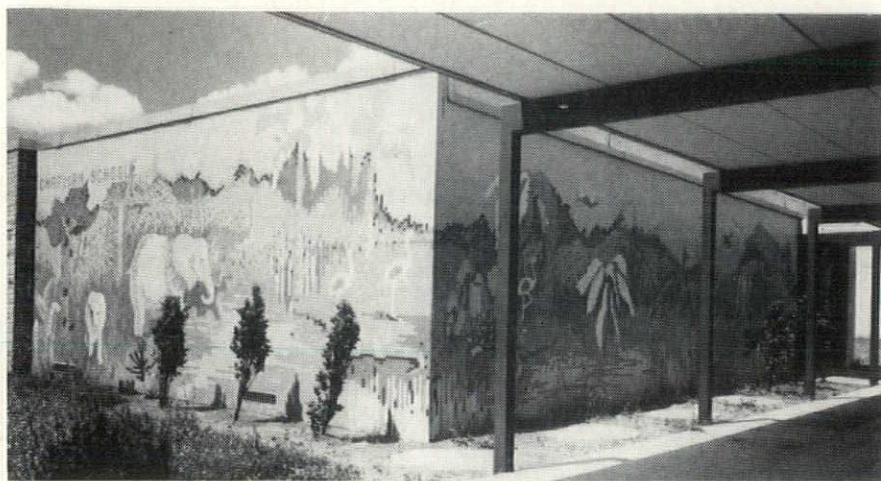
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Thousands of 1" x 1" Romany-Spartan ceramic mosaics were used to simulate lush jungle greenery and exotic plant and animal life. Architect Clinton worked with the United States Mochon wanted not only to bring a highly decorative dimension to the building but provide a psychologically stimulating environment for young students.

In executing the large mural, the Ceramic Tile Company's Architectural Design Service, which develops custom patterns based on a sketch or written description outlining the architect's needs. The service also provides research, where necessary, on specialized scenes for more specific requirements, such as historical murals.

Romany Spartan tiles are handled in this area, by the Rollin Child company in Hopkins, Minn.

STORE FIXTURE COVERED IN NEW SPEC

Architects and other designers concerned with store design are required to be, simultaneously, creative artists, merchandising experts and highly exacting technicians. For this reason, the National Association of Store Fixture Manufacturers has created, and recently revised a set of detailed standard specifications for store fixture construction.

These specifications are set forth in a comprehensive book, titled "Specifications for the Manufacture of Store Fixtures," which could be of value in the design of store facilities. It is available from the National Association of Store Fixture Manufacturers, 53 W. Jackson Blvd., Chicago, Ill. 60604.

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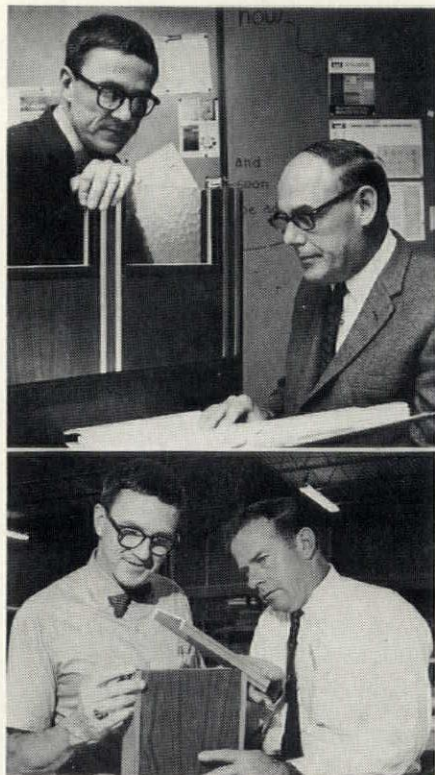
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"'Phantom Walls' could be another term for the movable partitions," he said. "They can be dismantled and re-positioned many times to suit changing office requirements all with almost no



In the top picture Mr. Neal (left) reviews the Weyerhaeuser system with R. L. Kiewel, Weyerhaeuser area manager. The bottom picture shows Mr. Neal discussing installation procedures with Harry Chase, Weyerhaeuser engineer.

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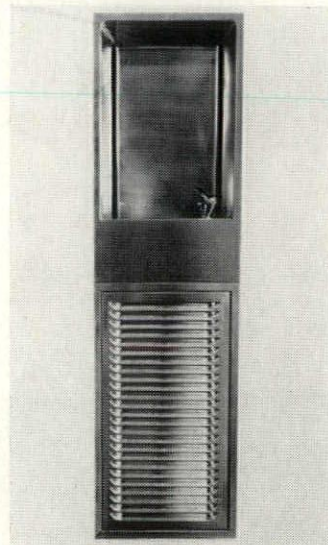
hardwoods, tackboard, blackboard, gypsum wallboard and fabric or vinyl is available.

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Mr. Neal said his firm can offer

additional services such as design and layout assistance, future relocation services and a continuing full services concept.

HAWS ANNOUNCES NEW STAINLESS RECESSED FOUNTAINS



A new series of fully recessed stainless steel water coolers, Models 84RC and 88RC, is now being manufactured by Haws Drinking Faucet Co., Berkeley, Cal. Both are ideal for hallways or anywhere floor space is limited.

Model 84RC, available in either 6 or 12 gallons-per-hour capacities, features a Haws water chiller hidden by a louvered stainless steel matching grille, and a Haws Model H3 chrome-plated, pushbutton-operated valve with self-closing automatic stream control, integral bubbler and optional condensation-proofing.

Model 88RC sports a trim hinged core grille to match the fountain finish, concealing the remote chiller below. Bubbler and valve are identical to 84RC; chiller yields 6 gallons-per-hour.

Comprehensive Haws spec sheets on these models present all standard and optional finishes, detailed dimensional drawings which show installation features and a selection chart which presents in tabular form such data as capacities, compressor size and condensing media and domestic shipping weights.

Copies of these spec sheets can be had from Haws Drinking Faucet Co., Fourth and Page Sts., Berkeley, Cal. 94710.

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UNIVERSITY OF WISCONSIN OFFERS TWO WORKSHOPS

The Department of Engineering of The University of Wisconsin-University Extension will conduct a one-week Metals Estimating Workshop November 10-14. The course is offered in cooperation with several technical associations and will take place on the University's Madison campus.

The ninth annual Construction Contracts and Specifications Institute will be presented by The University of Wisconsin and Region 7 of The Construction Specifications Institute on November 20-21 on the Madison campus. Requests for information should be directed to Dwight D. Zeck, Institute Director, 741 Extension Bldg., 432 No. Lake St., Madison, Wis. 53706.

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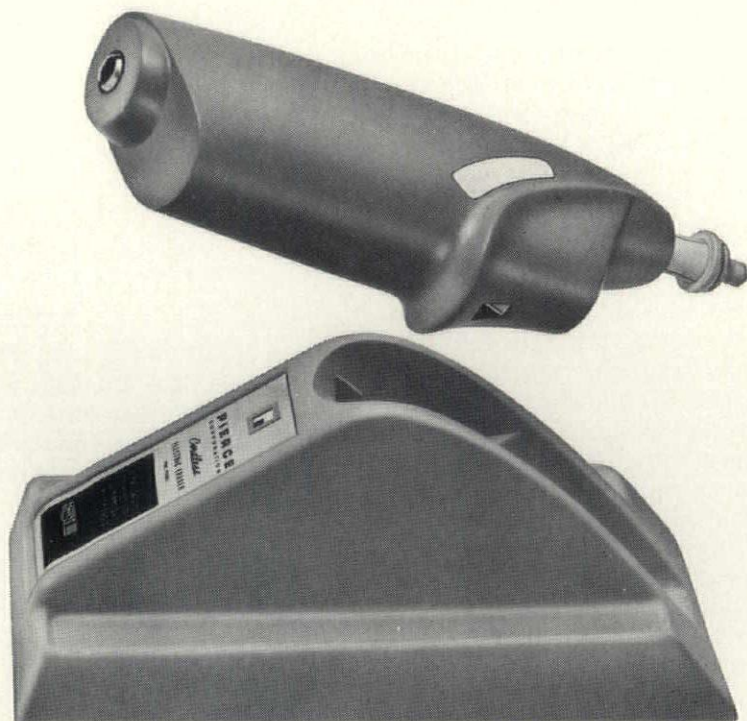
The appointment of Marvin Hork as sales manager of its new Building Products Division has



Mr. Hork

been announced by Paul M. Vincent, president of Vincent Brass & Aluminum Co.

The division will be responsible for development and implementation of programs for sales of architectural aluminum extrusions and the complete line of Reynolds Aluminum commercial building products, Mr. Vincent said. Gravel stop and fascia systems, curtain wall sections, bar, rod, channels, tees and tubes will be stocked in the mill finish aluminum as well as in the new Duronodic and Rey-



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no-color finishes.

The newly created division will also expand services in the area of copper, aluminum and stainless steel products.

TV HELPS GUARD WORLD'S LARGEST OFFICE BUILDING

"To catch a thief" in the Pan Am Building, world's largest commercial building, is a formidable task. The problem includes keeping surveillance over a 59-story building with 60 acres of offices, traffic control of 17,000 permanent daytime residents and another 250,000 persons using its facilities or passing through the building every work day of the year. Security must cover 65 passenger and freight elevators, in addition to 21 escalators.

According to Thomas Kyle, assistant manager in charge of security for the Grand Central Building, Inc., which owns the Pan Am Building, probably the single most important piece of equipment which helps security personnel to stop theft is the Panasonic closed-circuit television (CCTV) system. Mounted above strategic areas, TV cameras continuously focus on the loading dock, freight elevators, entrances and exits to the building, escalators and other important places.

One camera keeps its lens on the well-known Lippold sculpture, made of wire and easily broken if mishandled. The TV camera helps keep visitors from plucking the wires or damaging the sculpture.

Another use for TV cameras, especially those placed on escalators, is to control crowds. If

the escalators become crowded in one area, the console attendant can immediately shift the escalators' direction in such a way that the crowds can be better transported.

As risks increase in major buildings use of closed circuit TV is expected to be used more and more.

NEW GROUT DEVELOPED BY TILE COUNCIL

Mastic Grout, an "instant" grouting compound designed especially for use with dry-set glazed wall tile, is the latest development of the Tile Council of America's Research Center. It comes ready to use from the can and does not require the addition of water, sand or cement, according to its developers.

"The pre-mixed composition of organic and inorganic materials works on a water-loss principle; that is, it hardens by coalescence of polymer particles when water is lost through absorption to tile edges and backing material and through evaporation," explained Dr. J. V. Fitzgerald, director of the research center.

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"Mastic Grout is stain-resistant," he said. "It has an infinite pot life, permitting a tile setter to save unused portions for another job on another day, and it dries to form a tough and resilient tile joint that won't powder or flake."

Portland cement is the base for most grouts that are used with wall tile. These grouts are considered "tried and true" and, in the opinion of the Tile Council, they are.

"Portland cement-base grouts harden by hydration, making it imperative that the ratio of water to cement is exactly right. It is imperative also that the rate of water loss be controlled, for hydration is not an instantaneous reaction.

"When used with dry wall tile, therefore, either the tiles must be soaked before grouting or a special portland cement grout with an ingredient that makes it water-retentive must be used, this because dry tiles are absorptive and will draw water from the grout. It is for this reason that Mastic Grout is ideal for dry wall tile installations, says the Tile Council, for the faster it dries, the faster it hardens.

Technical details can be obtained from the Council at 800 2nd Ave., New York, N. Y. 10017.

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IOWA

The magnificent new C. Y. Stephens Auditorium at Iowa State University, Ames, was dedicated recently in festive ceremonies, including a concert by the New York Philharmonic conducted by Seija Ozawa. In an appreciative and laudatory review of the building and of the concerts the Minneapolis Tribune inexplicably failed to mention the architects of this \$5 million masterpiece; they were **Crites and McConnell** of Cedar Rapids and **Brooks, Borg and Skiles** of Des Moines.

A matching two-story wing, designed by **Rossiter and Hamm** of Dubuque, is being added to the 130-year-old courthouse in Galena, Ill.

A comprehensive plan for the improvement and beautifying of downtown Glenwood has been prepared by **Mitzu Kawamoto**, Omaha architect.

A half-million dollar addition to Dr. MacDonald's Vitaminized Feed Co. in Fort Dodge has been designed by **Maiwurm-Wiegman** of the same city.

SOUTH DAKOTA

The new Stanley County Courthouse, to be built in Fort Pierre at an estimated cost of \$425,000, was designed by **Meese & Foss, Inc.**, Huron.

An architect, **Robert Gay**, has been named to the nine-man planning commission of Rapid City.

A new Campus Center for Huron College in Brookings has been designed by **The Spitznagel Partners** of Sioux Falls.

Bison is to have a new bank which will be designed by **Robert D. Gay** of Rapid City.

NORTH DAKOTA

A 30-unit townhouse condominium for Fargo is being constructed by Town Houses, Inc., a corporation formed for the purpose by the contractors and the architect, **Kenneth R. Johnson**.

The recently-completed Bismarck Civic Center was designed by the long-established firm of **Ritterbush Brothers**. Robert Ritterbush, Jr., is the son and nephew of the founders, both of whom are living. His father was named a Fellow of the American Institute of Architects at the recent convention in Chicago. Associated with Robert, Jr., is Merlin E. Rudrud.

"The richer one becomes in wisdom the shorter becomes the time in which to use it." *Alan Paton*

"Wealth is energy compounded with intellect's know-how." *Buckminster Fuller*



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2. Mail Subscriptions	4,186	4,210
C. Total Paid Circulation	4,186	4,210
D. Free Distribution (including samples) by Mail, Carrier or Other Means	520	524
E. Total Distribution (Sum of C and D)	4,706	4,734
F. Office Use, Left-Over, Unaccounted, Spoiled After Printing	294	166
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I certify that the statements made by me above are correct and complete. Fred Miller, Jr. Editor.

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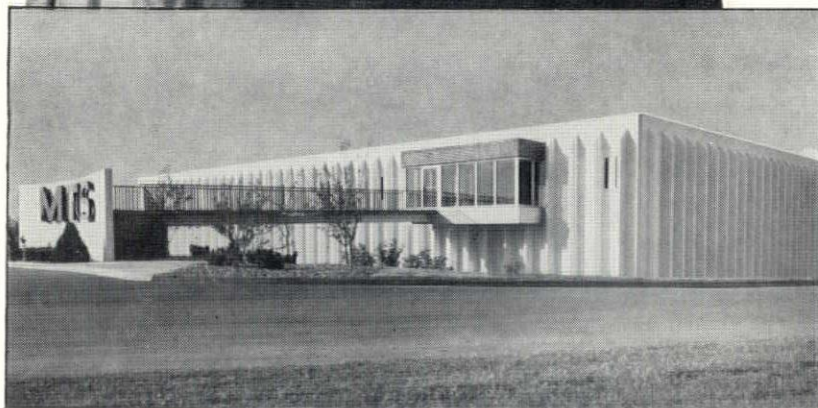
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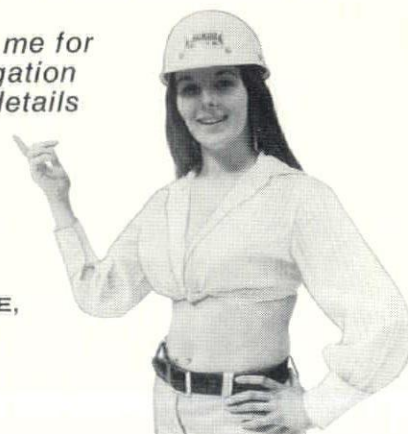
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