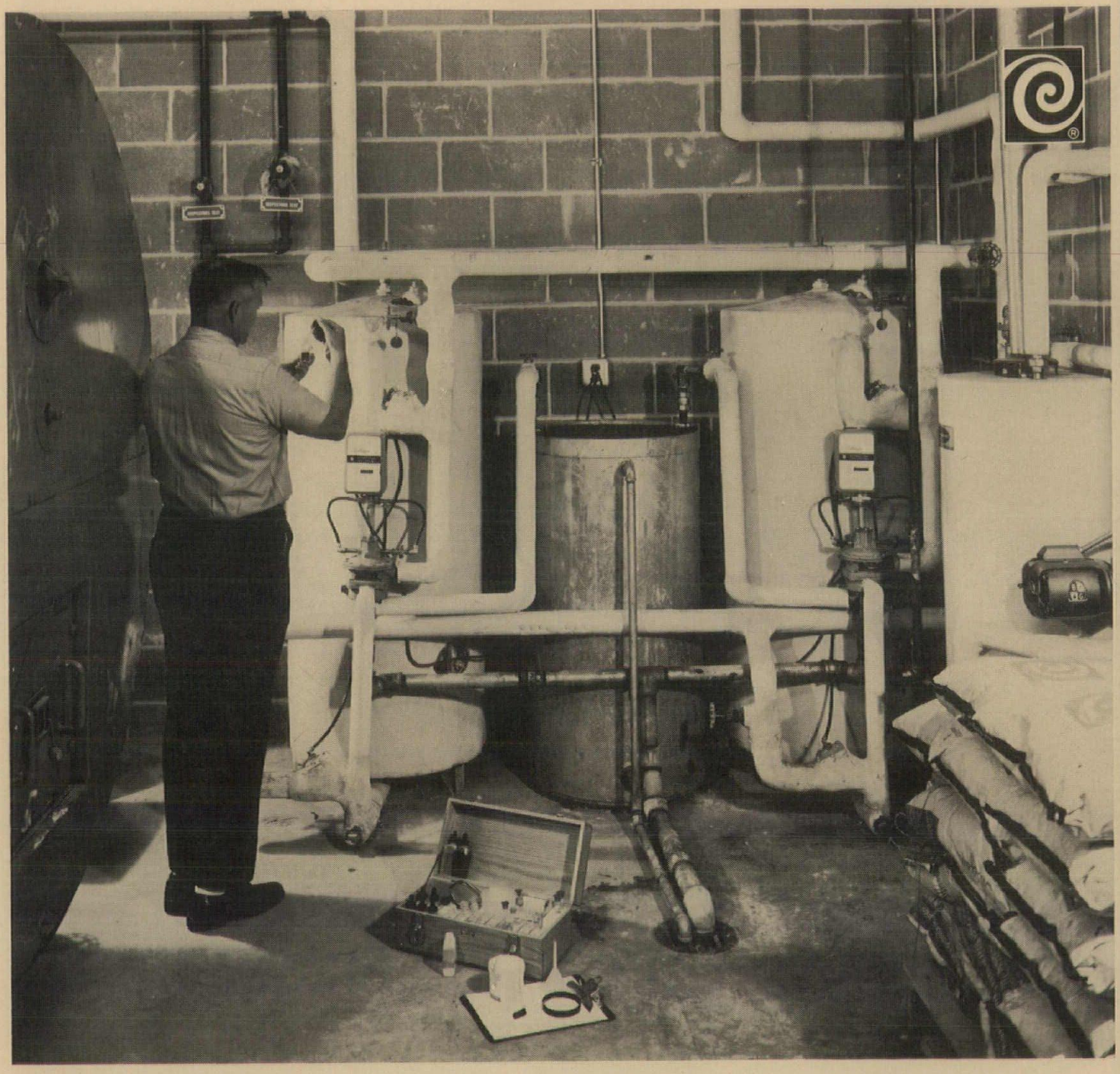
IOWA ARCHITECT

THE FACE OF ARCHITECTURE IN IOWA



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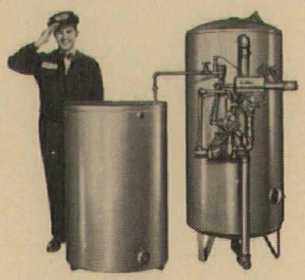

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Iowa State Capitol Building

Des Moines, Iowa

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Des Moines, Iowa

CONSULTING ENGINEERS: Frank Pulley Associates
Des Moines, Iowa

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THE FACE OF ARCHITECTURE IN IOWA

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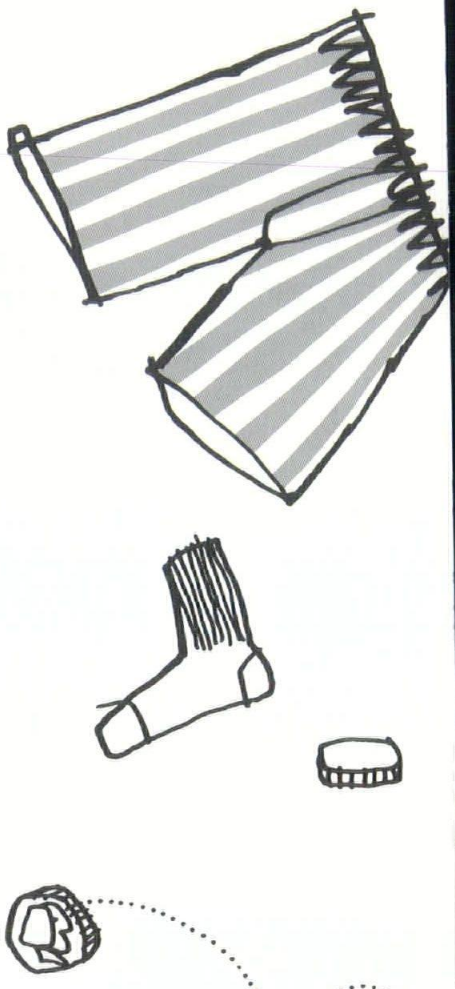

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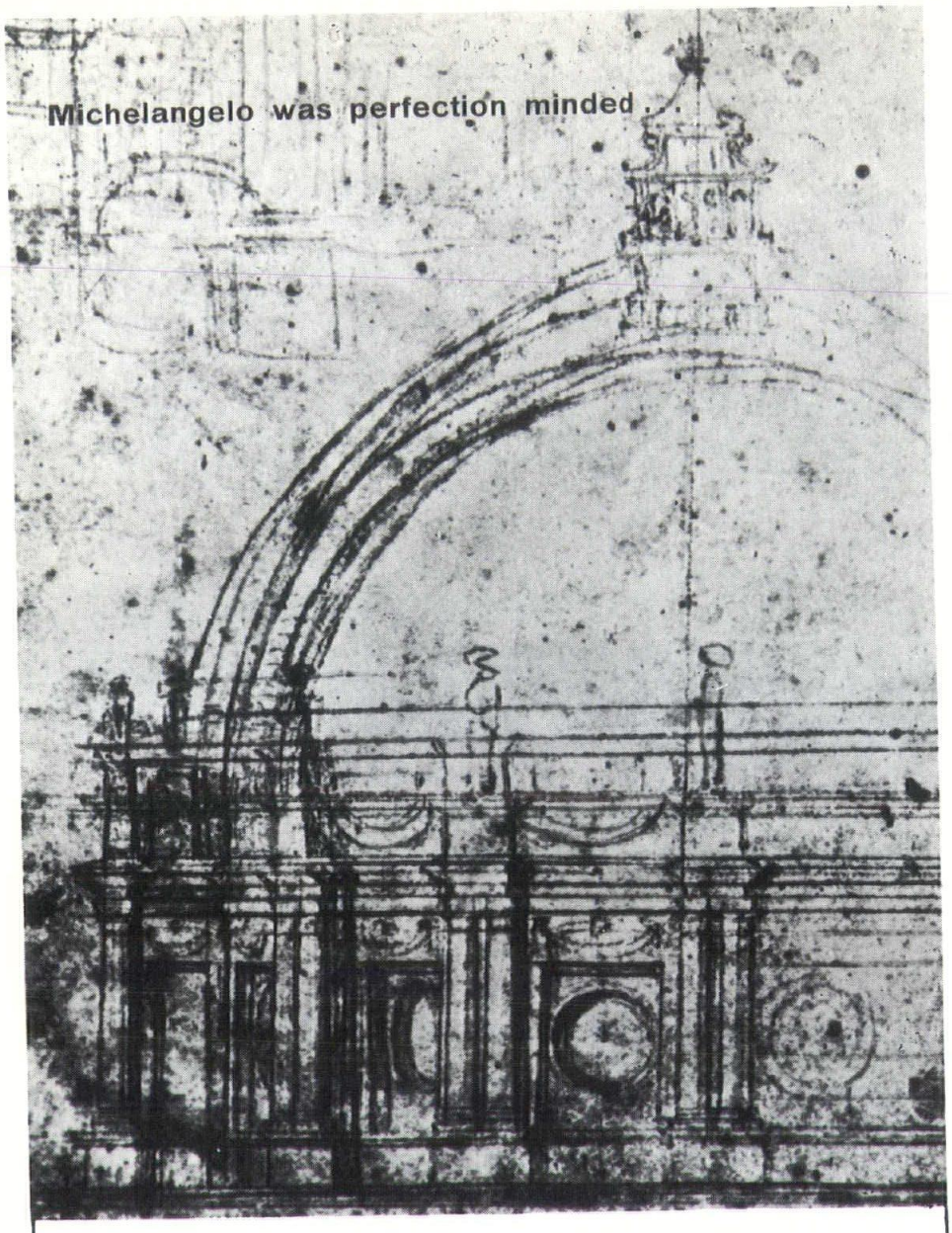

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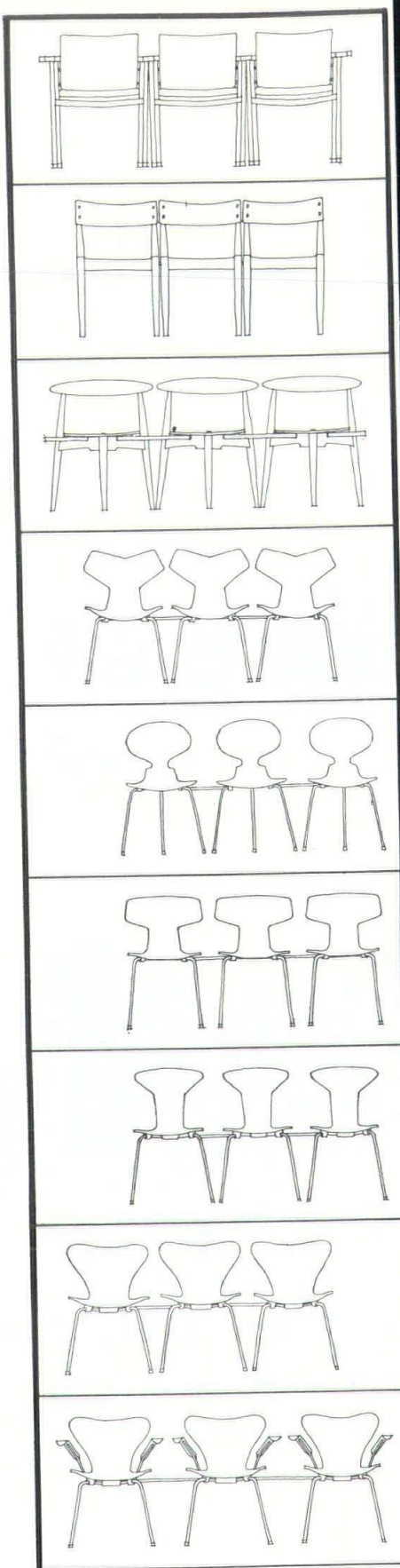

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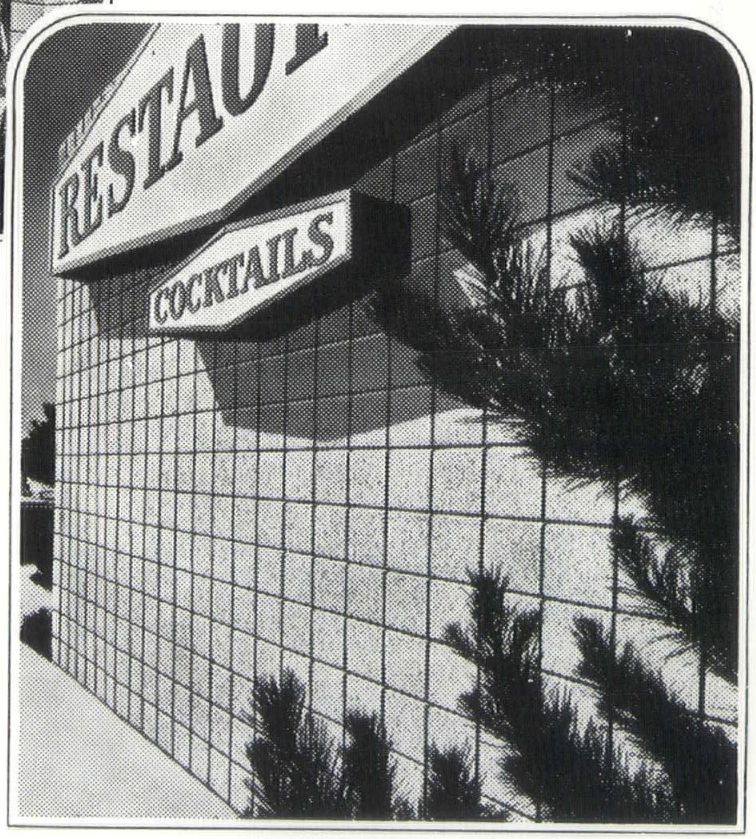

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an organization to promote the proper use of concrete masonry

schools . . .
problem in

The part that schools play in the progress of individuals and nations is not at issue—nor is it in this context a concern of the professional architect.

The fitting of a school building to a local situation requires the solution of many problems which are very much a part of what the architect is and does.

The matter of budget—to what extent the school board wants adequate facilities, to what extent the board's philosophy represents the philosophy of their constituent tax payers, and to what extent this philosophy can be implemented within legislative regulations which

progress

sometimes restrict school effectiveness. The matter of site selection and planning from both the standpoint of convenience and of environmental aesthetics. The matter of emphasis in special areas and physical provisions therefore. The role that extracurricular activities play in the total education philosophy of the community.

All of these and many more problems the architect helps to solve, to meld into a facility of brick and stone, concrete and wood, steel and synthetics, so that the problems of education can lead to progress in education.

The following pages picture and describe several solutions by Iowa architects for school districts across the state.

hoyt elementary school

des moines independent community school district

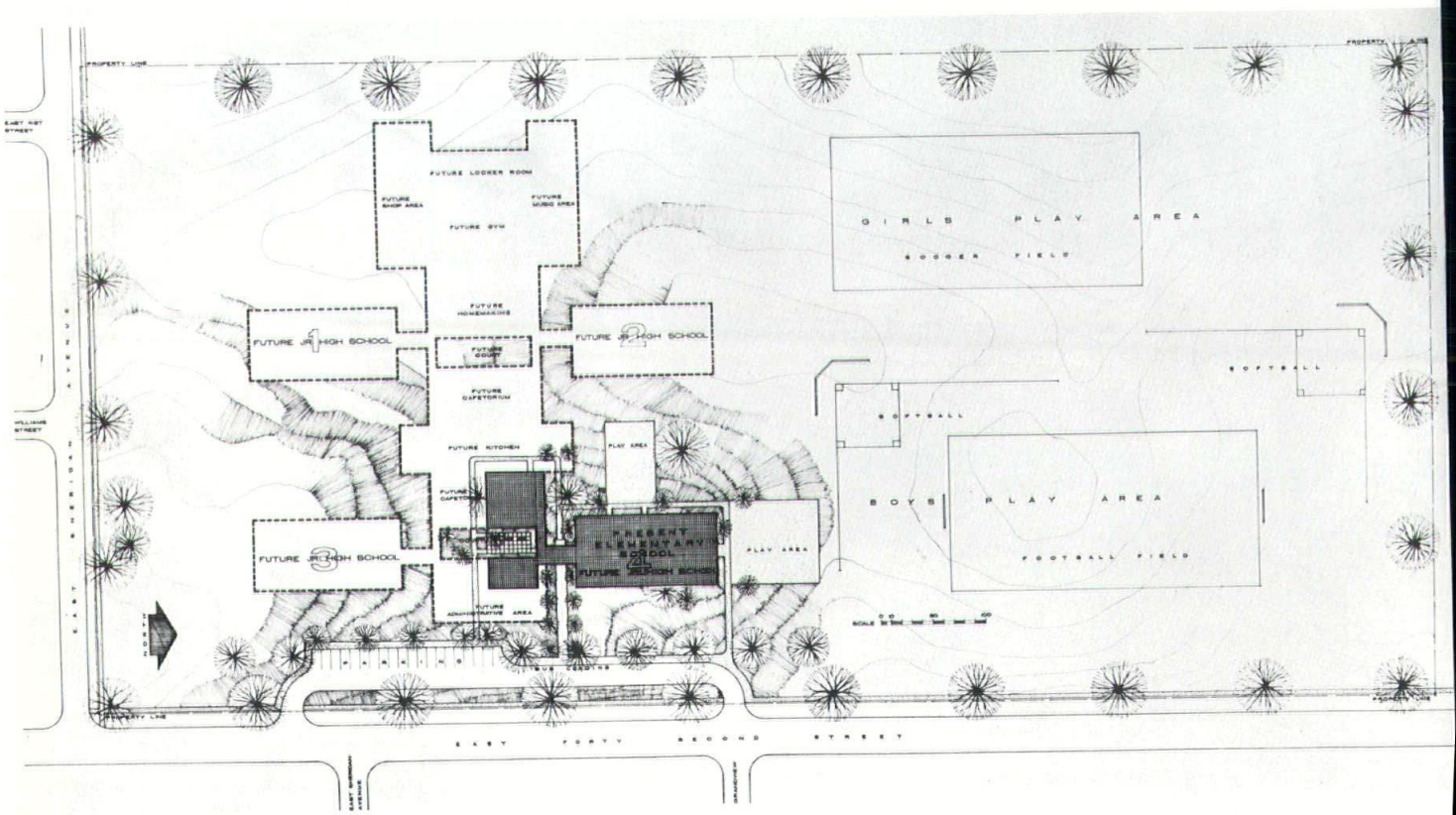
karl keffer associates architects

This unusual design problem required an Elementary School of ten rooms to be constructed at the present time but designed to allow for an orderly transition in the future to a Junior High School at a minimum cost to the School District. Accordingly, future plans are indicated to show how the present rooms would fit with the overall plant.

The Junior High plan was designed in accordance with the "small school concept", i.e., there will be more than one school in the same building with commonly used central facilities. The building will ultimately contain four Junior High Schools each with a capacity of 250 students.

The present Hoyt Elementary School is one of the future Junior High School wings. Each classroom wing will be exactly the same with office space, counseling rooms, interchangeable classrooms, science room, toilets and storage facilities. The central core now will house facilities used by each "small school."

The kindergarten on the front of the present building is a part of the future library, the other kindergarten is the future science room and the all-purpose room is a part of the future cafetorium.



hark a. knudsen

marshalltown high school

marshalltown, iowa

smith-voorhees-jensen architects associated

The project is a secondary senior high school housing the educational program for 1,500 students. The school district also operates a two year Junior College for 600 pupils which was to share the 48 acre site at some future date. Bonding limit restrictions prevented building the total program but enough had to be included to adequately carry on the academic program without the transporting of students to other facilities.

Basic to the program was the stipulation that shared facilities of the Junior College and High School be kept at a minimum, namely Physical Education space, cafeteria facilities and the fine arts.

Thus the academic portion of the high school houses all functions other than in the shared space. These included administration, core classrooms, library, Science, Homemaking and Commercial Departments as well as Shop facilities.

The 48 acre site is divided almost equally by a creek which drains a large portion of adjacent land. This division was utilized in separating the athletic and physical education area from the building and parking facilities.

humboldt high school

humboldt, iowa

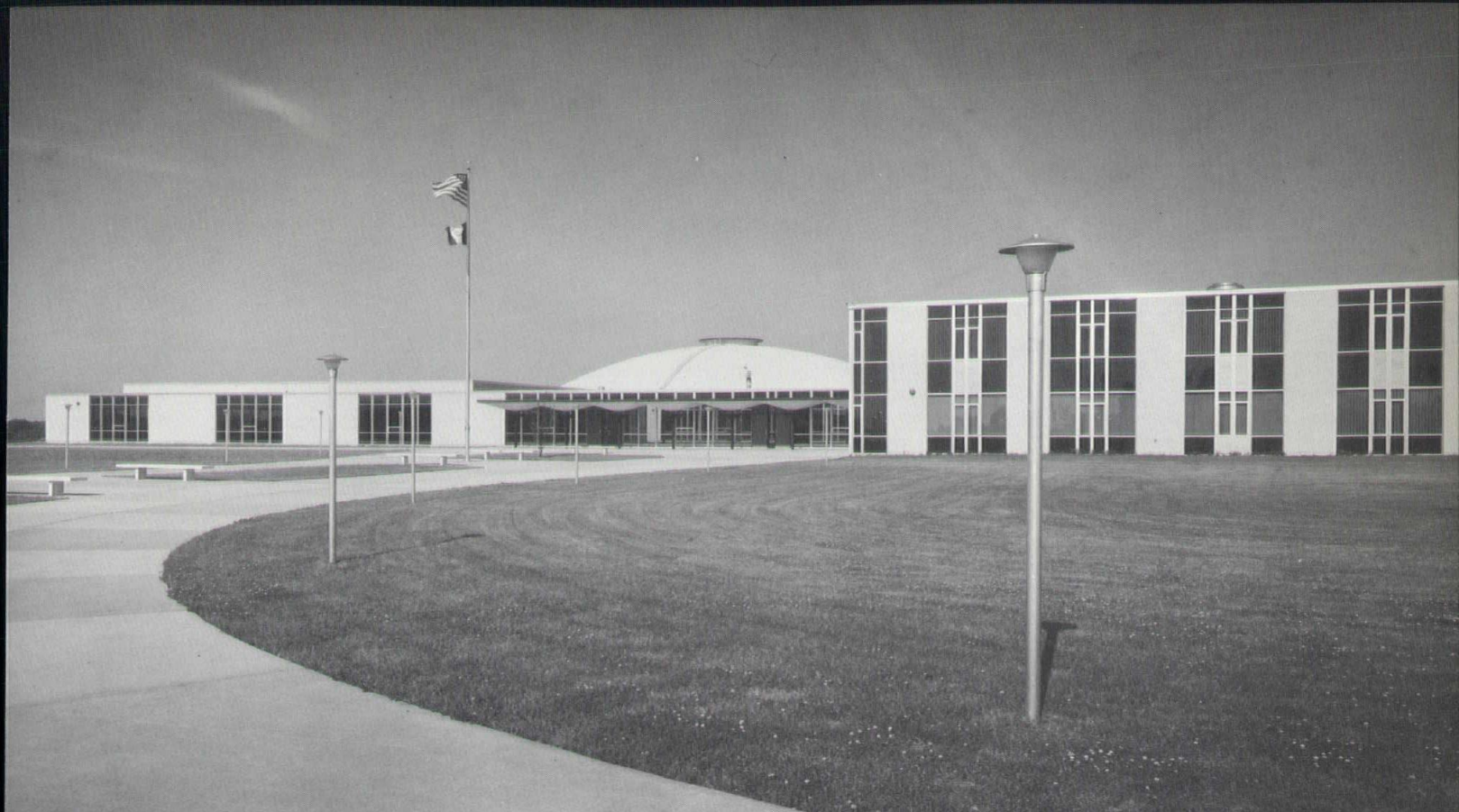
smith-voorhees-jensen architects associated

The project involved is the design of an educational environment for a high school program for 500 to 600 students. Provision for expansion to 750 is anticipated.

The school is located on a 42 acre site at the outlying edge of Humboldt. A small portion of the site is to be reserved as a possible location of a future elementary school.

An active summer program in music, commercial and academic subjects together with the desire of suitable space for elementary and junior high summer programs led to the stipulation that the academic portion of the building and the music department and administrative facilities should be climate controlled.

The Library is designed to be the key element in the academic section with the core classrooms housing English and Social Studies in close proximity. Within the core classroom area is located a multi-purpose classroom that serves a variety of needs—Speech, dramatic practice, Audio Visual, seminar classroom, recording and taping room for local radio programs, lecture room, and team teaching. Some of the core classrooms utilize folding partitions to facilitate large group and team teaching.



bill engdahl, hedrich-blessing

junior and senior high school

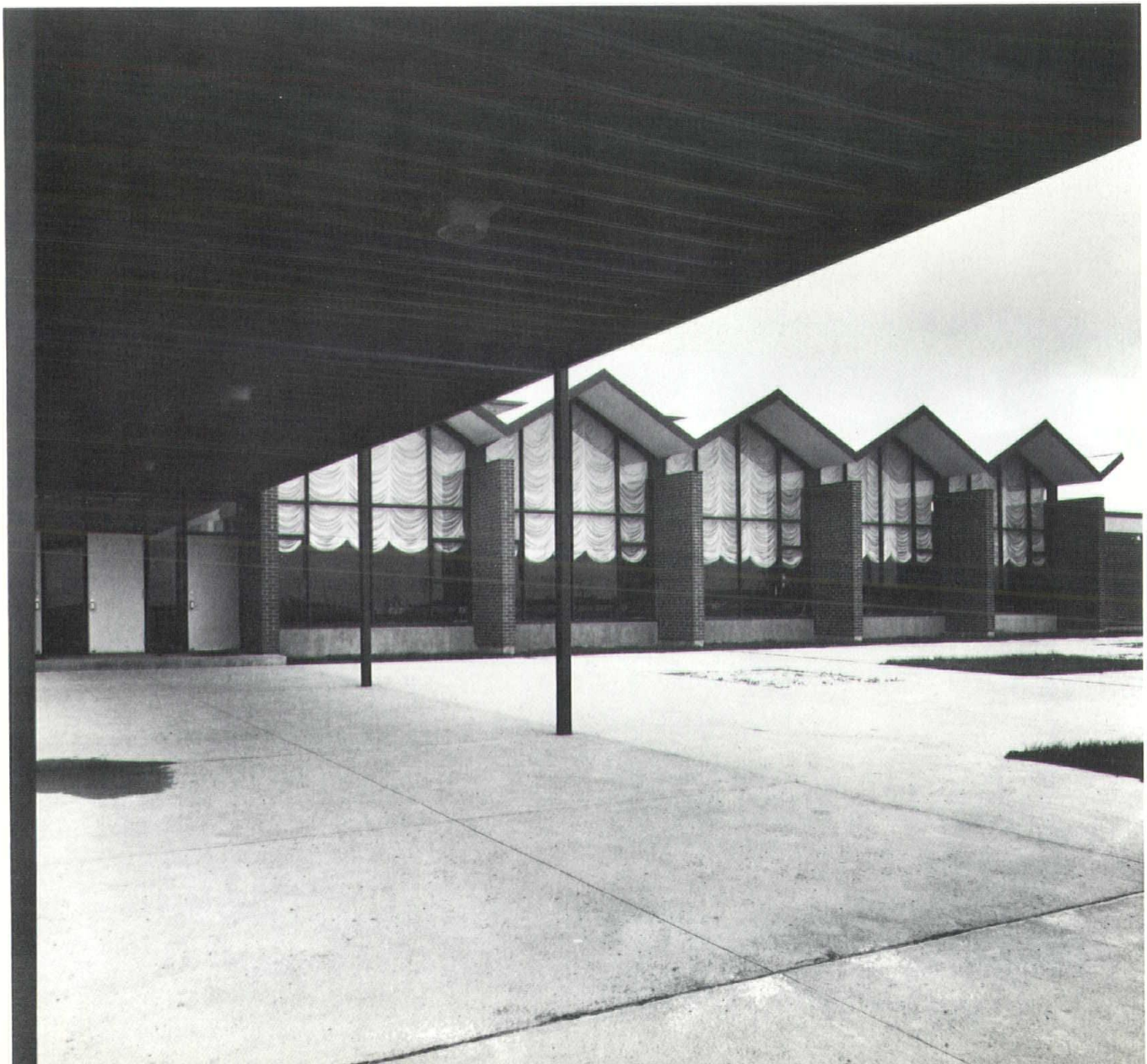
new sharon, iowa

karl keffer associates architects

The design required a building to house a complete 4-year Senior High School and 6 general classrooms for Junior High students. Special classrooms used by both Junior and Senior High students include homemaking, library, Biology, Physics-Chemistry, vocal and band rooms, art, foreign language, auditorium-gymnasium, cafeteria-study hall, and shop areas.

The auditorium was designed to accomodate the school capacity of 400 in fixed seats; however, by opening a folding partition at the rear of the auditorium, 600 folding bleacher seats (with backs) can be turned toward the stage increasing the auditorium capacity to 1,000.

mark a. knudsen



joel strasser

james madison junior high school

burlington, iowa

dane d. morgan and associates architects

The building was constructed to accommodate 500 students. There are 15 academic classrooms plus a Library, Auditorium, Band and Vocal Music Rooms, Wood and Metal Crafts spaces, Administrative area, Art Room, Home Economics space, Science Rooms, Kitchen and Cafeteria, Gym and Locker Rooms, and Boiler and Mechanical Equipment space.

Site limitations and program requirements for control of exterior student lounging spaces dictated the development of two interior open court areas.

A spacious Lobby was provided in connection with the Auditorium to facilitate community wide program functions.

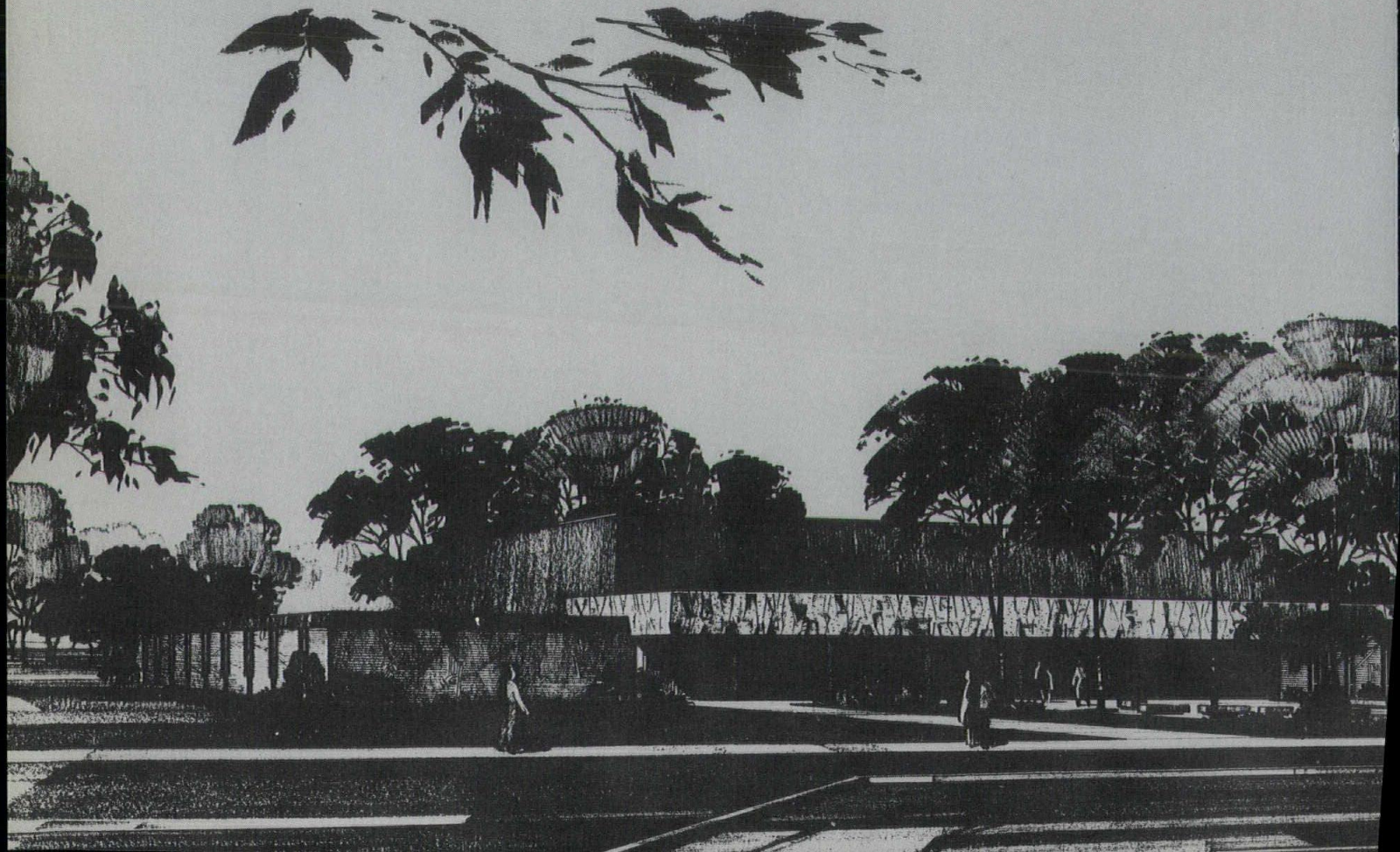
junior-senior high school building

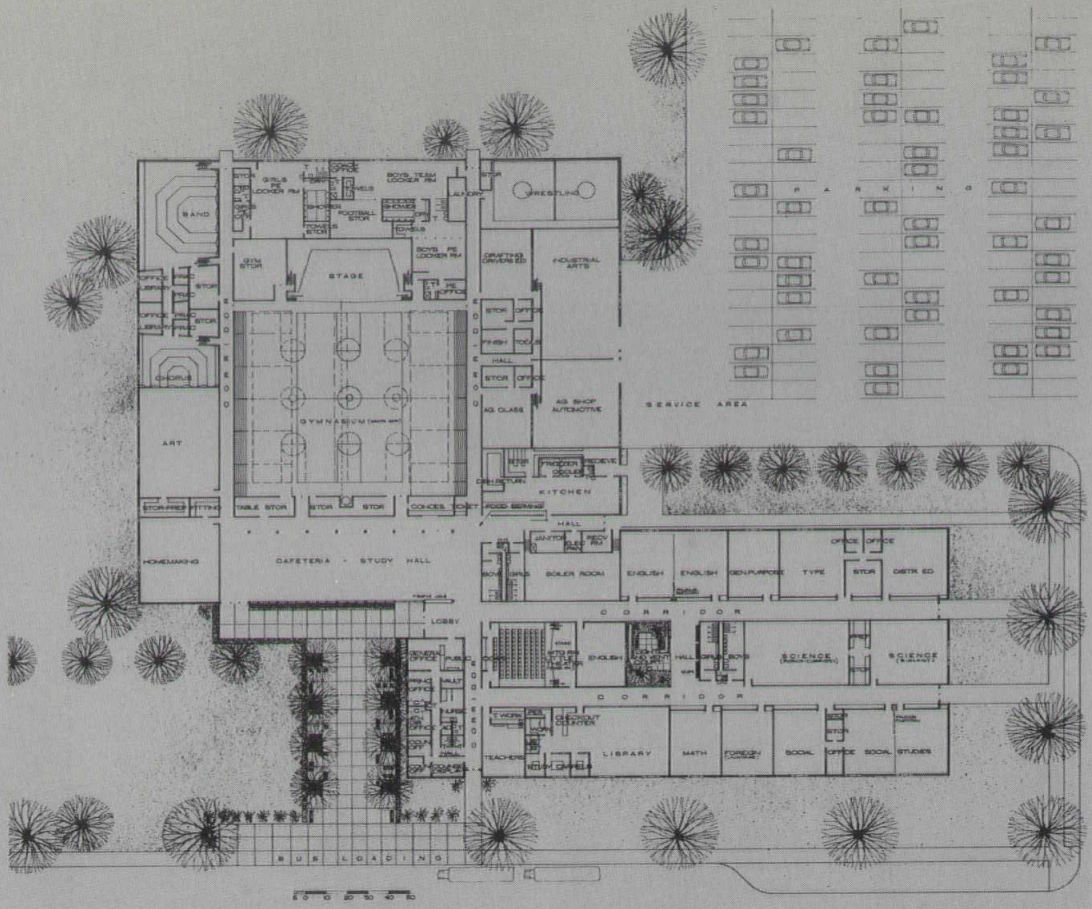
clarion, iowa

karl keffer associates architects

A complete 4-year High School was designed with common central facilities to accommodate a Junior High School Addition in the future. The common central facilities are located relative to both Junior and Senior High so there is a minimum interchange between the two age groups.

The cafeteria, meeting room—little theater, and gymnasium were located in easily accessible areas for evening public use without opening all other school facilities for egress.




PARKING
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STOR
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OFFICE
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ENGLISH
ENGLISH
GEN PURPOSE
TYPE
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CORRIDOR
LOBBY
ENGLISH
SCIENCE
SCIENCE
CORRIDOR
TEACHERS
LIBRARY
MATH
FOREIGN
SOCIAL
OFFICE
SOCIAL STUDIES
BUS LOADING

franklin pierce elementary school

cedar rapids, iowa

brown, healey and bock architects

This is a school for grades 1 thru 6, including kindergarten, entirely one story but on different levels. In addition to the necessary classrooms, there is an administration area, gymnasium, auditorium, art room and science room. The interior and exterior walls are almost exclusively a dark brown saxon brick.

The one photograph shows the stone retaining walls used around the north side of the school which indicates how the different levels resulted. An addition to this school will soon be built in the future.

gertrude fellows elementary school

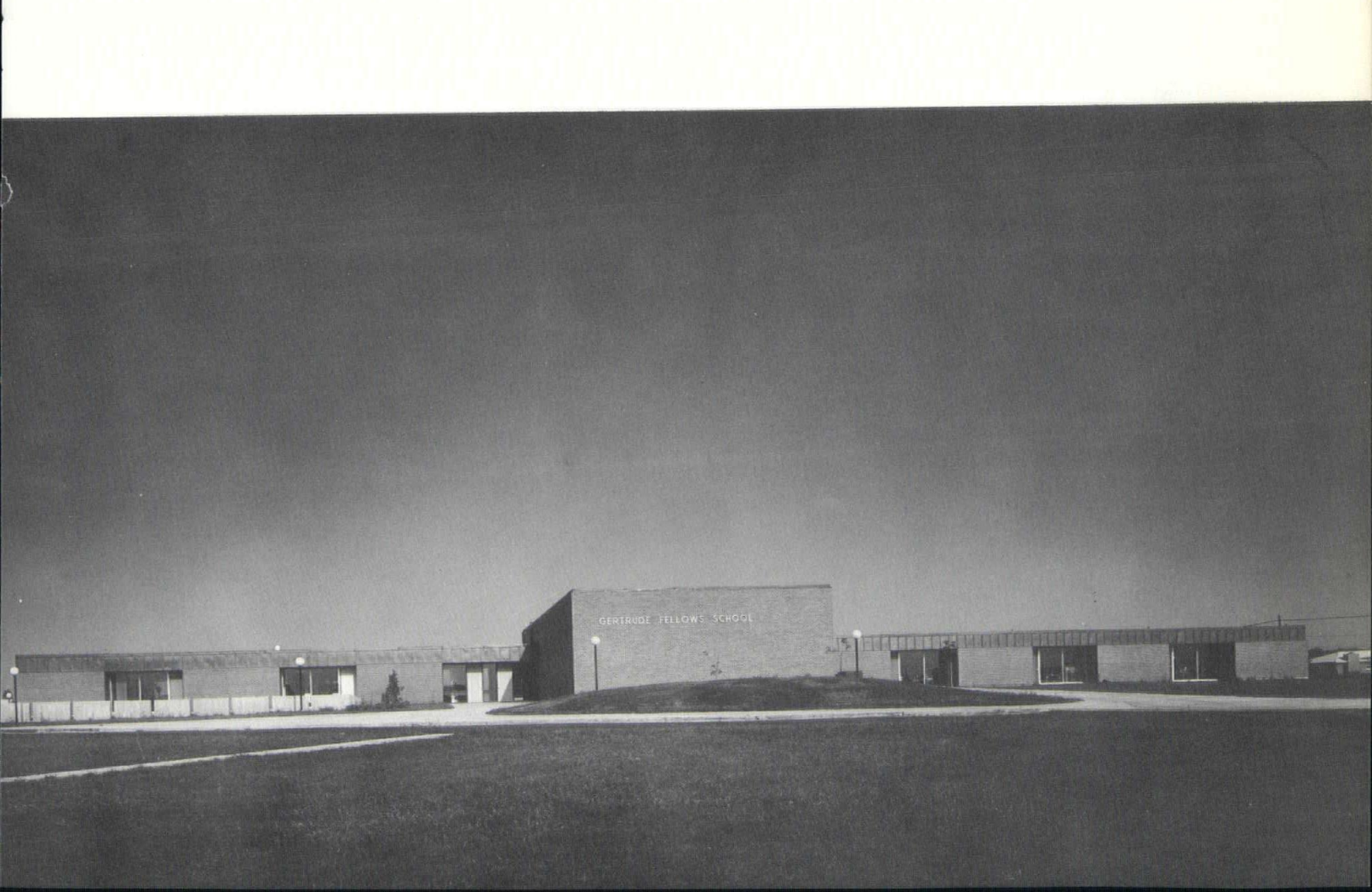
ames, iowa

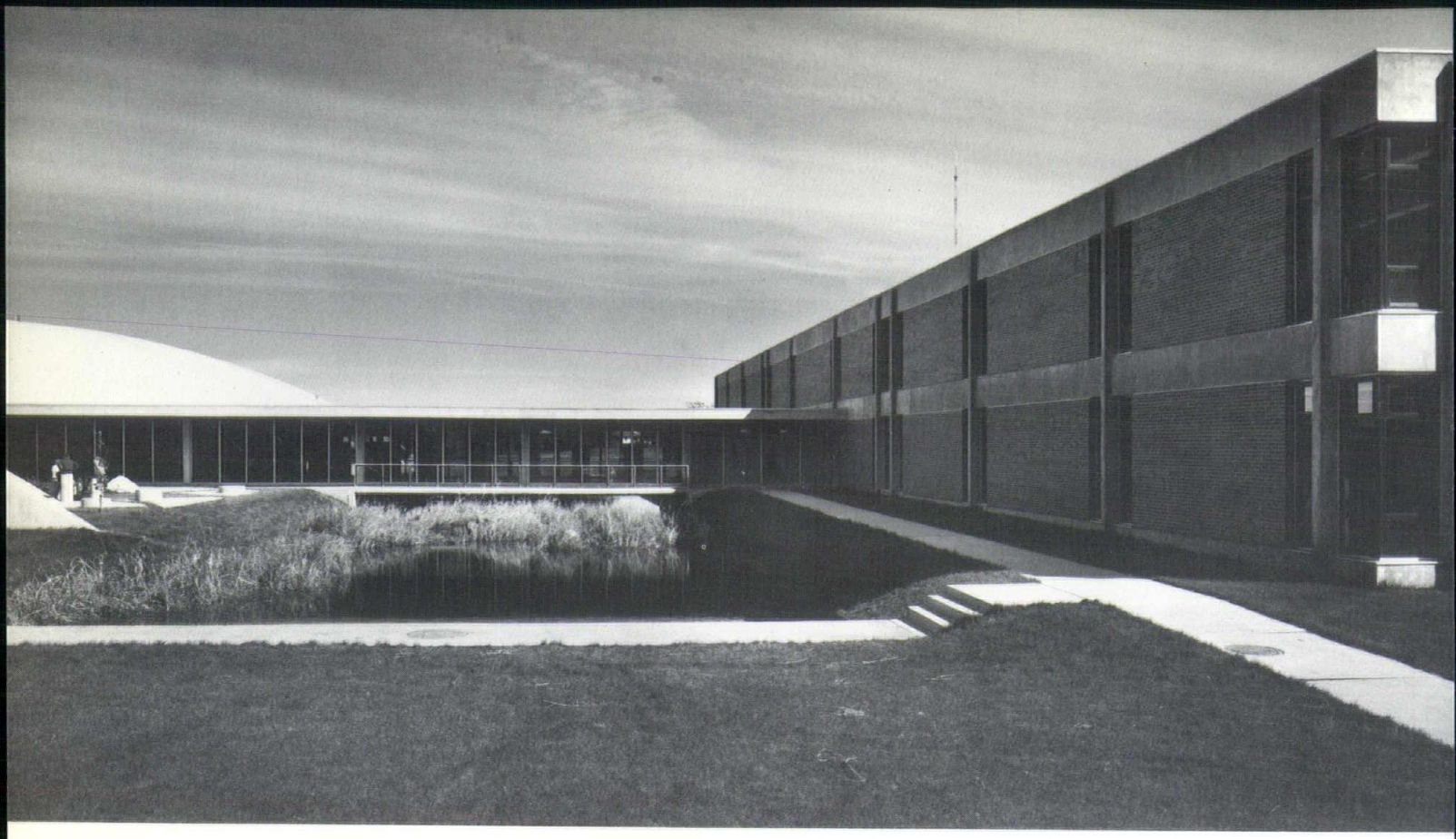
james lynch and associates architects

This elementary school was designed to give maximum flexibility within each classroom for the future, in that the polarized lighting panels allow a vast variety of of seating patterns while at the same time still providing adequate light in a non-glare manner to the working surface of each student's desk. The basic shape of the classroom and exterior design provides a positive sun control to each classroom so that the controlled, artificial light level is more effective.

The heating system serving the school is in the perimeter pipe tunnel so that no heating equipment projects within the classroom. The heating system would be easily adaptable to air-conditioning in the future if that is deemed necessary by the School Administration and Board.

joel strasser





warren harding junior high school

cedar rapids, iowa

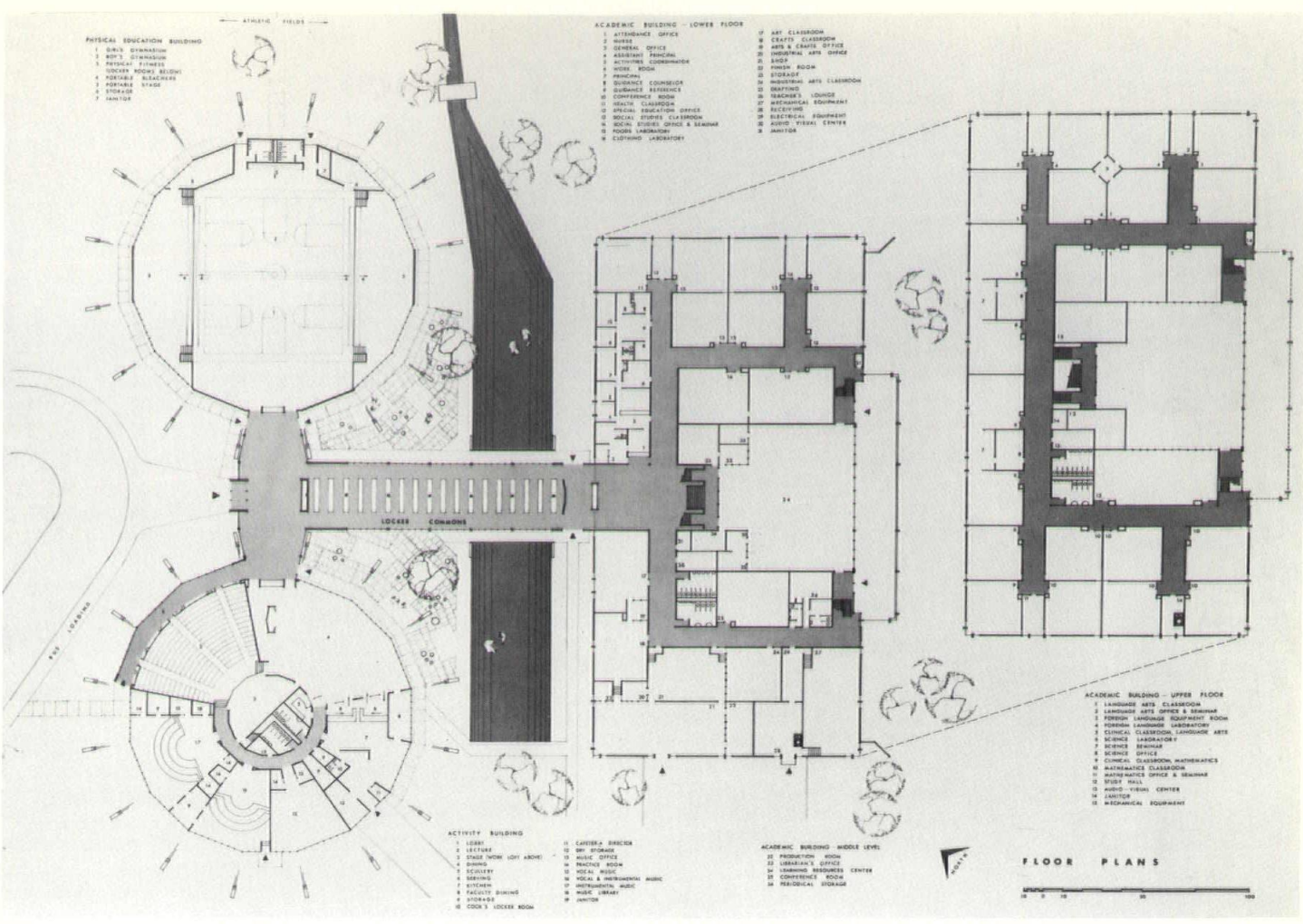
kohlmann-eckman-hukill architects

Warren G. Harding Junior High School is designed to serve a seventh through ninth grade school of 900 students.

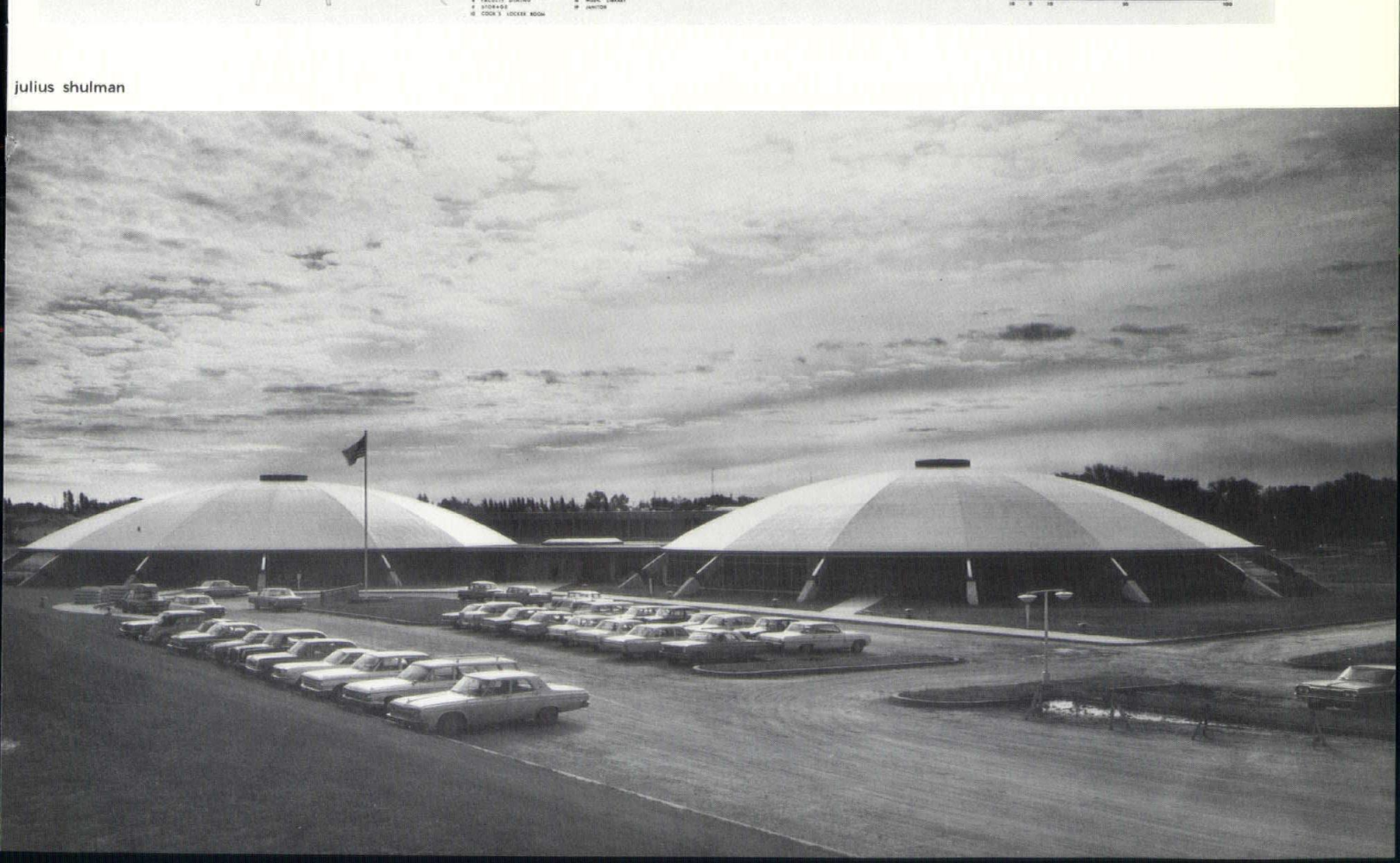
Educationally and physically it is designed around an Instructional Materials Center. Educationally, this area contains lounge space, individual study carrels, group conference rooms, listening booths, reading areas, browsing space, books, and periodicals. It serves individuals, small groups, and entire classroom size conference groups simultaneously. Physically, it is located in the exact center of the academic areas and is no further than approximately 100 feet from any classroom area. It is also adjacent to the main concourse and is purposely located and decorated to be the most inviting area in the complex.

The solution is to provide dome shaped roof structures over two areas, thus accomplishing structural economies, and enclosing them with straight line segments, to accomplish materials economy. Cost results strongly support this decision. The non-rectalinear shape of rooms in the noisier areas is a definite acoustical asset.

The entire structure is developed to accommodate a future enrollment of 1,200 students, the optimum figure which the school district feels accomplishes both maximum course offerings, student opportunity, and economy of operation.



julius shulman



AIA ENDORSES POTOMAC TASK FORCE REPORT

WASHINGTON, D.C., September 17, 1967—The report of President Johnson's task force to reclaim and rehabilitate the entire Potomac River Basin has been strongly endorsed by the American Institute of Architects. The endorsement followed Secretary of the Interior Stewart L. Udall's release of the report which recommends that Congress establish a new Potomac Development Foundation, responsible for restoration of the river basin as a national treasure and model for the nation.

Robert Durham, FAIA, president of the American Institute of Architects, has urged "quick action to preserve the Potomac and other waterways and halt their blind destruction." Mr. Durham said, "This can be done if Congress and the President carry out the report's recommended measures. Foremost among these are the establishment of a Potomac Development Foundation and a $50 million per year fund for land banks, research and development studies." The task force also recommended that the Foundation be empowered to receive tax-exempt contributions from private sources.

Secretary of the Interior Stewart L. Udall, was designated by President Johnson to prepare a program which would make the Potomac "a model of scenic and recreation value for the entire country." He requested the American Institute of Architects to assemble the interdisciplinary task force. The 11-member task force spent two years on the study. Their 100 page, illustrated report, titled *The Potomac,* provides a conceptual framework for all river basin planning. In urging immediate adoption of the report's principles, Mr. Durham pointed out that they range from pollution control and recreation to highly urbanized waterfront development.

"What is said and illustrated of the Potomac," he indicated, "is applicable to at least 20 other major basins in America. These once beautiful, economic assets have turned into little more than open sewers. The task force has clearly defined what is wrong, and the necessary corrective measures," he said.

Recommending the report as must reading for every citizen, and especially governmental leaders, Mr. Durham pointed out that the task force has "taken account of the Potomac basin's rapidly growing urban poputation and their needs and has related the complex uses of land to the need for an unpolluted and enjoyable river."

Above all," Mr. Durham said, "the report sets forth specific remedies tailored to the Potomac, but provides the thing most lacking throughout the country. This is an integrated plan for developing effective basin-wide remedies," he stated. Mr. Durham indicated that other concepts may be readily applied to the report such as the outstanding "Statewide Landscape Analysis for Wisconsin" of 1964, the "Metropolitan Open Space from Natural Process Report" recently prepared for The Department of Housing and Urban Development at the University of Pennsylvania, and others.

The Potomac, report is published and available through the Superintendent of Documents, Washington, D.C., 20402 at $5 per copy. It incorporates many well-polished concepts. The river is carefully analyzed for visual characteristics inherent to river landscape. Three distinct geological settings are treated in depth to illustrate fundamental erosion, pollution and water conservation principles. The case is also developed for lands that should not be built upon.

"The document is a broad, detailed framework fully adaptable to new technology in land use planning," Mr. Durham pointed out. It points up the need for a design concept approach by engineers, economists, sociologists, planners and architects. It also calls for a "regional inventory" of everything in the river basin as a prerequisite of any further urbanization of natural landscapes to meet the needs of a Potomac population expected to double within the next 40 years and reach nearly 7 million. "Enormous benefits would come from this," Mr. Durham said, "both through savings and through unforseen design opportunities.

Speaking of the task force's work, Mr. Udall said, "This is a unique group, representing some of the very finest professional talent to be found anywhere. Its members have served without pay, donating many days of hard work and study over a 28-month period. They and the AIA, which has continued to give the study its whoehearted support, have earned the deep appreciation of us all."

Chairman of the 11-member task force is Arthur Odell, Jr., FAIA, of Charlotte, North Carolina, former president of AIA. Other Architect members of the task force are:

Edmund N. Bacon, FAIA, architectural designer, city planner and since 1949 executive director of the Philadelphia City Planning Commission.

R. Max Brooks, FAIA, practicing architect in Austin, Texas for nearly three decades and director of numerous public and private building projects.

Donn Emmons, FAIA, San Francisco architect whose most recent honor was appointment as consulting architect for the billion-dollar Bay Area Rapid Transit System.

Francis D. Lethbridge, FAIA, Washington architect, designer of numerous East Coast industrial and residential building projects and winner of numerous awards.

MASTER BUILDERS INVITE ARCHITECTS

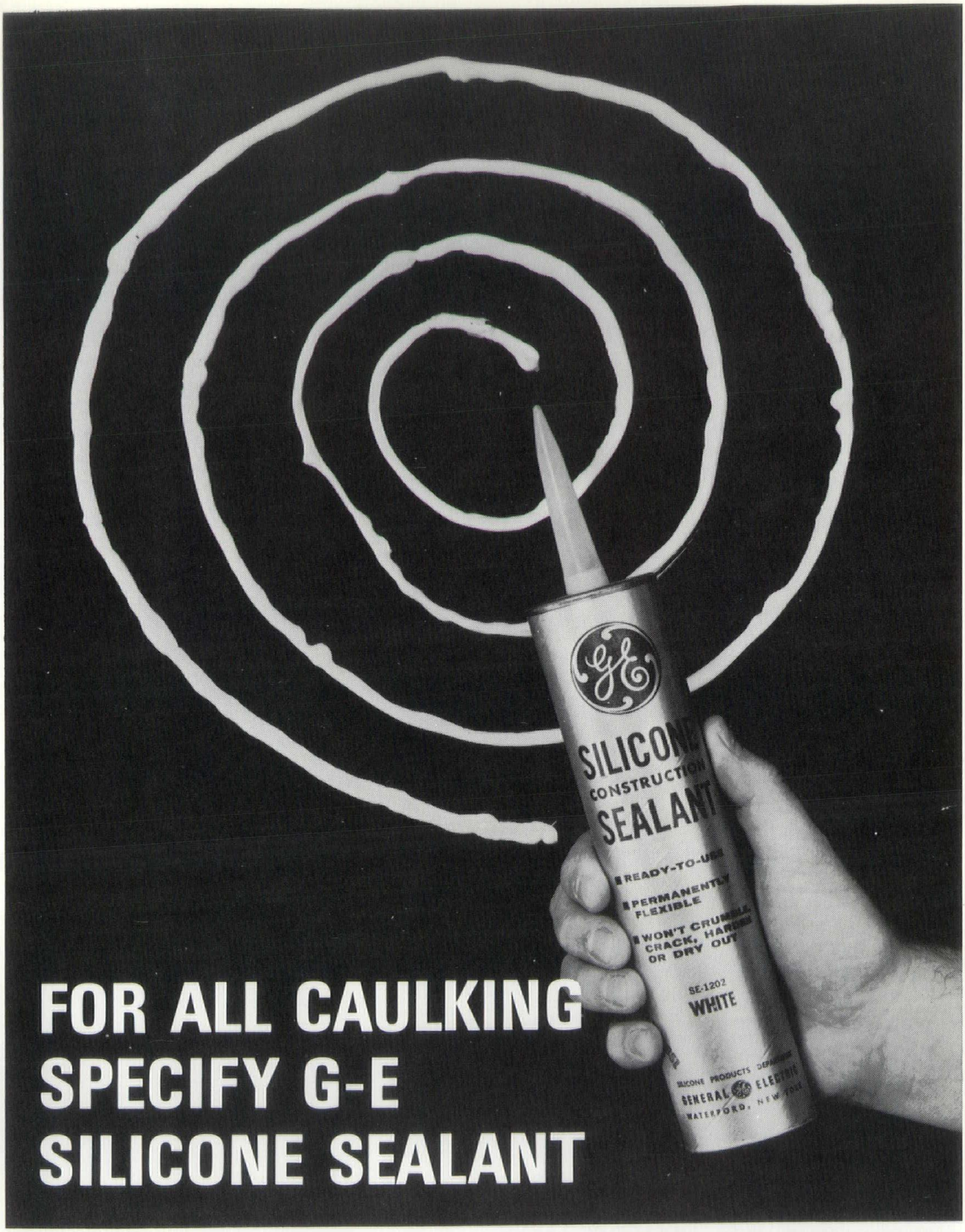
Tom Lawrence, President, Lawrence-Leiter and Co., management consulting firm of Kansas City, will present a day-long workshop on personal motivation and leadership to members and guests of the Master Builders of Iowa at that association's 56th annual meeting, December 5 and 6, at the Hotel Savery in Des Moines. Also featured on the program is Kansas City's legendary former mayor, H. Roe Bartle, and Harold F. Pluimer, Regional Director for Aerospace Education for the United States Air Force.

Other sessions of the business meeting will concern Iowa's controversial new tax laws, manpower problems and discussion of activities for the coming year. The Association's new headquarters building is expected to be about 80% complete and will draw the critical attention of the organization's builder members when they hit town. Containing about 7,000 square feet, the building will provide expanded office, plan room, and meeting facilities.

Iowa's architects and consulting engineers, building material suppliers and public officials involved in construction activities will be the MBI's guests during the meeting.

New officers and directors will be elected for 1968. Retiring as president is Kenneth Thompson, Ames. Current vice president and incoming president is W. K. Priester, Davenport. Other officers and board members are: Kenneth E. Mast, Water-

Continued on page 26



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METRO POPULATION INCREASES PREDICTED

The population of almost every metropolitan area in the United States is expected to increase between now and 1975, according to the National Planning Association's Center for Economic Projections. Metropolitan areas in the Southeast, Southwest, Mountain, and Far West regions of the U. S. will continue to increase their share of the United States metropolitan population primarily at the expense of the Middle Atlantic regions.

Specific projections of interest to architects and planners indicate that:

Metropolitan areas can be expected to continue to grow, but at a pace slower than in the past—a population growth rate estimated at 2.2 percent per year by 1975 compared to 3.1 percent between 1950 and 1962.

On the other hand, metropolitan employment and income growth are projected to grow faster than in the past.

Metropolitan areas which can provide job opportunities are likely to grow rapidly, particularly in regions which have a relatively large nonmetropolitan population.

Population growth is expected to be closely linked to employment growth of noncommodity sectors including transportation, trade, construction, finance, services, and government.

Nonmetropolitan areas by 1975, it is predicted, will contain less than 30 percent of the total United States population. The Nation's 224 metropolitan areas will comprise 73 percent (164 million people) of the total population, and 60 percent of that 164 million will be concentrated in the 25 largest areas, ranging from over 17 million in New York-New Jersey area to over 1,250,000 in the New Orleans area.

BUILDING COSTS INCHING HIGHER

According to a November 6 news release from the F. W. Dodge Company, leading analyst of construction activity, building construction costs in the United States and Canada have risen 2.5 percent in the year ending October 31, 1967. 1.5 percent of this rise has occurred since April of 1967.

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Continued from page 22
loo, Secretary; Buell E. Rockey, Des Moines, Treasurer; John H. Evans, Fort Dodge; Lester M. Hoffman, Independence; Charles E. Loomis, Cedar Rapids; L. D. Murphy, Atlantic; and Gunvald Sande, Humboldt.

IOWAN CO-AUTHORS CRITICAL PATH PUBLICATION

Donald E. Kawal, BS, MS, Instructor in Building Construction Curriculum, for the College of Engineering at Iowa State University, has collaborated with Professor Byron M. Radcliffe of the University of Nebraska and Professor Ralph J. Stephenson a management consultant in Detroit in putting together what has been described as the most complete and up-to-date source on network analysis for the planning, scheduling, and control of construction projects.

Written for the particular needs of builders, general contractors, architects, land planners, and allied professionals, it covers such important areas as time assignment and computation . . . analysis, planning and scheduling . . . diagramming practices . . . monitoring and updating . . . computer utilization . . . the role of management. and related applications.

The 292-page book is entitled CRITICAL PATH METHOD and contains scores of network diagrams and fold-outs of actual projected graphs, along with an extensive glossary of terms and a complete list of standard diagramming abbreviations.

NATIONAL ASSOCIATION OFFERS ADVICE ON BUILDING MAINTENANCE

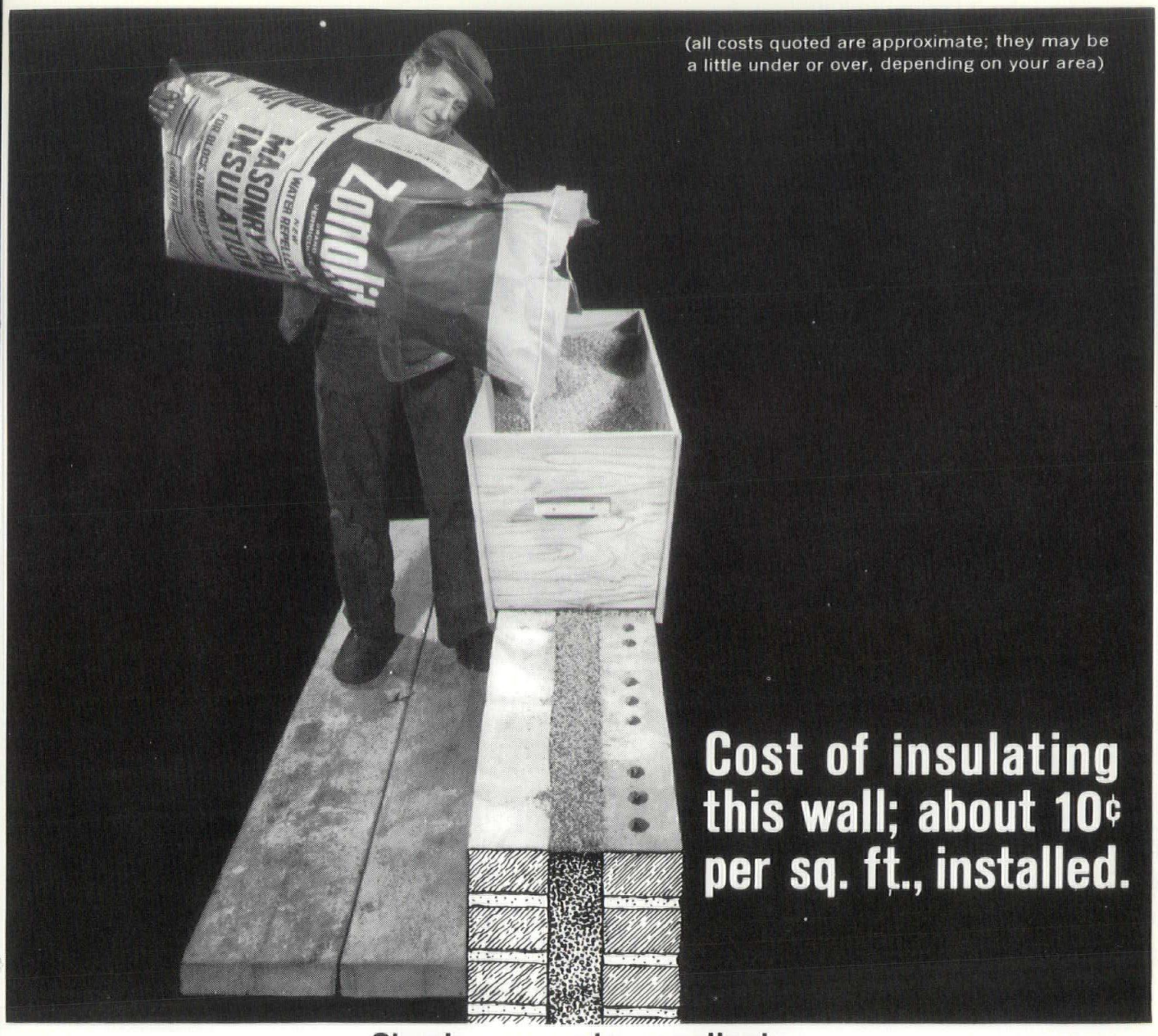
The KEX National Association of College Park, Maryland, is doing something about the skyrocketing costs of building maintenance. It should be of interest to any firm who operates a building, any architect who designs, and any contractor who builds. Hospitals, schools, churches, and other nonprofit buildings would find it equally informative.

The necessity for increased wages in maintenance categories and the increasing scarcity of reliable maintenance workers make it important to find ways to make labor time more efficient.

The study reveals that 93 cents of each maintenance dollar goes to labor costs; that dust and dirt which get inside a building cost $500.00 a pound to remove, and that 70 percent of all interior dirt and dust is tracked in.

The Maintenance Product Survey, which is available from the KEX National Association at 7100 Baltimore Avenue in College Park, Maryland, lists seven steps to cut maintenance labor time:

1. Use a stopwatch—find out what's taking labor time
2. Schedule maintenance jobs with care
3. Concentrate on keeping dirt out of plant store or office . . .
4. Good training pays dividends
5. Good human relations increase productivity
6. Save steps—combine two jobs into one
7. Understand the beneficial effects on health and safety in proper maintenance



Simply pour water-repellent Zonolite* Masonry Fill Insulation into the 2½" cavity of this 10" brick cavity wall

That's all the wall needs to stay warm and dry on the inside. If you don't want to finish the interior, you don't have to.

One man can easily insulate 29 square feet of wall a minute with Zonolite Masonry Fill Insulation. To install it, he just opens the bag and pours. (Either directly into the wall or into a hopper that can easily be knocked together on the job.)

He doesn't need to know any new techniques. If he's smart enough to pour coffee into a cup, he's smart enough to install Zonolite Masonry Fill Insulation.

This insulation cuts heat transmission through the walls up to 50% or more. Cuts the cost of your heating and cooling equipment, too, by allowing you to use smaller units.

The material is water repellent. In tests at the Structural Clay Products Research Foundation, Geneva, Ill., it was installed in a cavity wall purposely built to leak. The wall was subjected to 144 hours of rain—5" to 8½" per hour—at winds up to 75 m.p.h. No water came through the wall, or penetrated the insulation.

Another nice thing about Zonolite Masonry Fill Insulation; when you pour it in, it doesn't get hung up on mortar or reinforcement. Just fills the wall right up and stays there without settling, saving on heating and air conditioning bills for the life of the building. For complete information, read our Bulletin MF83. Write to Zonolite, 135 S. La Salle Street, Chicago 3, Illinois.

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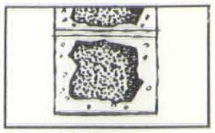
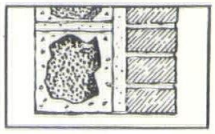
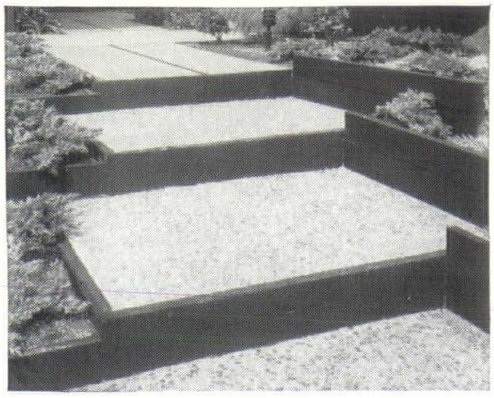


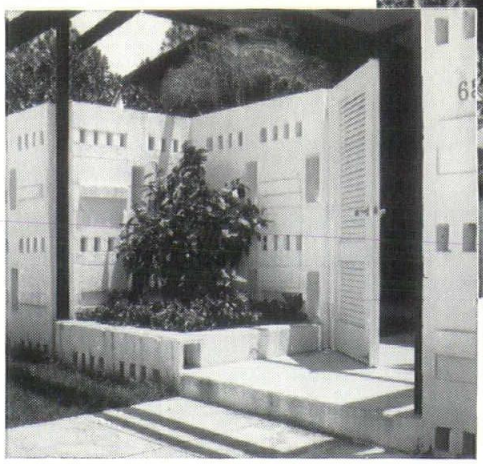
13¢
per sq. ft., installed, to insulate this 8" concrete block wall. 10c for 6" block, 21c for 12" block.



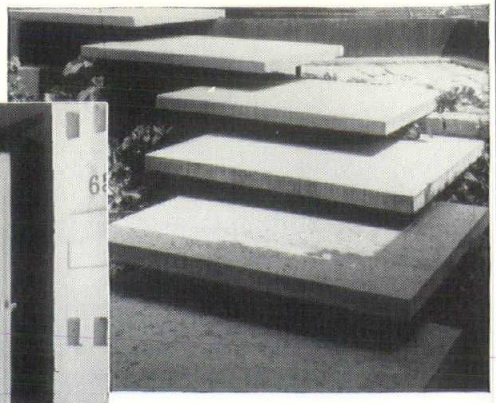
10¢
per sq. ft. installed, to insulate this brick wall with 6" block backup. Just pour material into the block. If the size of the block changes, the cost naturally changes.



STEPS OF EXPOSED AGGREGATE CONCRETE



ENTRANCE WALL OF CONCRETE MASONRY



THIN SLAB STEPS OF PRECAST CONCRETE

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From a simple patio on a small lot . . . to large campus-style site planning . . . modern concrete offers today's landscape architect new opportunities.

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PORTLAND CEMENT ASSOCIATION

408 Hubbell Bldg., Des Moines, Iowa 50309

A national organization to improve and extend the uses of concrete

COLORFUL CONCRETE DRIVEWAY WITH EXPOSED AGGREGATE

FIELD TRIP— ARCHITECTS ASSOCIATED

The firm of Architects Associated continues to increase employer-employee relations with office field trips, product, and office practice seminars.

October 10, 1967, was one such day when the office provided the opportunity for its Des Moines and Sioux City offices to take a field trip to some of the projects currently under construction in the Des Moines area. Architects Associated chartered a bus and at 8:30 a.m., closed the office and with the staff drove to the first of three job sites, the new State Office Building. The second was the Plymouth Place residence for the elderly, and the third and last on the tour was the Federal Home Loan Bank. The objective of the tour was to acquaint the staff with job conditions during construction.

The field trip was climaxed with lunch provided by the firm in the recreation room at the office of Architects Associated.

Be as precise as you wish when you specify coatings

You're the boss. No holds barred.

Specify the exact type of surface, the correct degree of protection, the precise color, the most rigorous resistance to abrasion or weather.

Something new? Hardly—Iowa Paint has been formulating paint for countless surfaces, coatings for every job, and they've been doing it for years. Today, many building owners and operators specify Iowa coatings to increase performance and reduce maintenance.

For instance: If you wanted a smooth-as-glass finish—absolutely resistant to moisture, abrasion and expansion—for a curved concrete form, just say so. Iowa Paint has the answer among its wide line of Iopoxy Enamels.

Or, say you have a concrete floor in an industrial building that must stand unusual wear, heavy equipment traffic, constant abrasion, high impact. Easy! Iowa Paint has already solved the problem with Fusiontred.

Just specify—as precisely as you wish. And if Iowa Paint hasn't already solved your problem, we'll probably custom-make a coating for you. We've done it many times. Just specify and we'll come running to help.

IOWA PAINT
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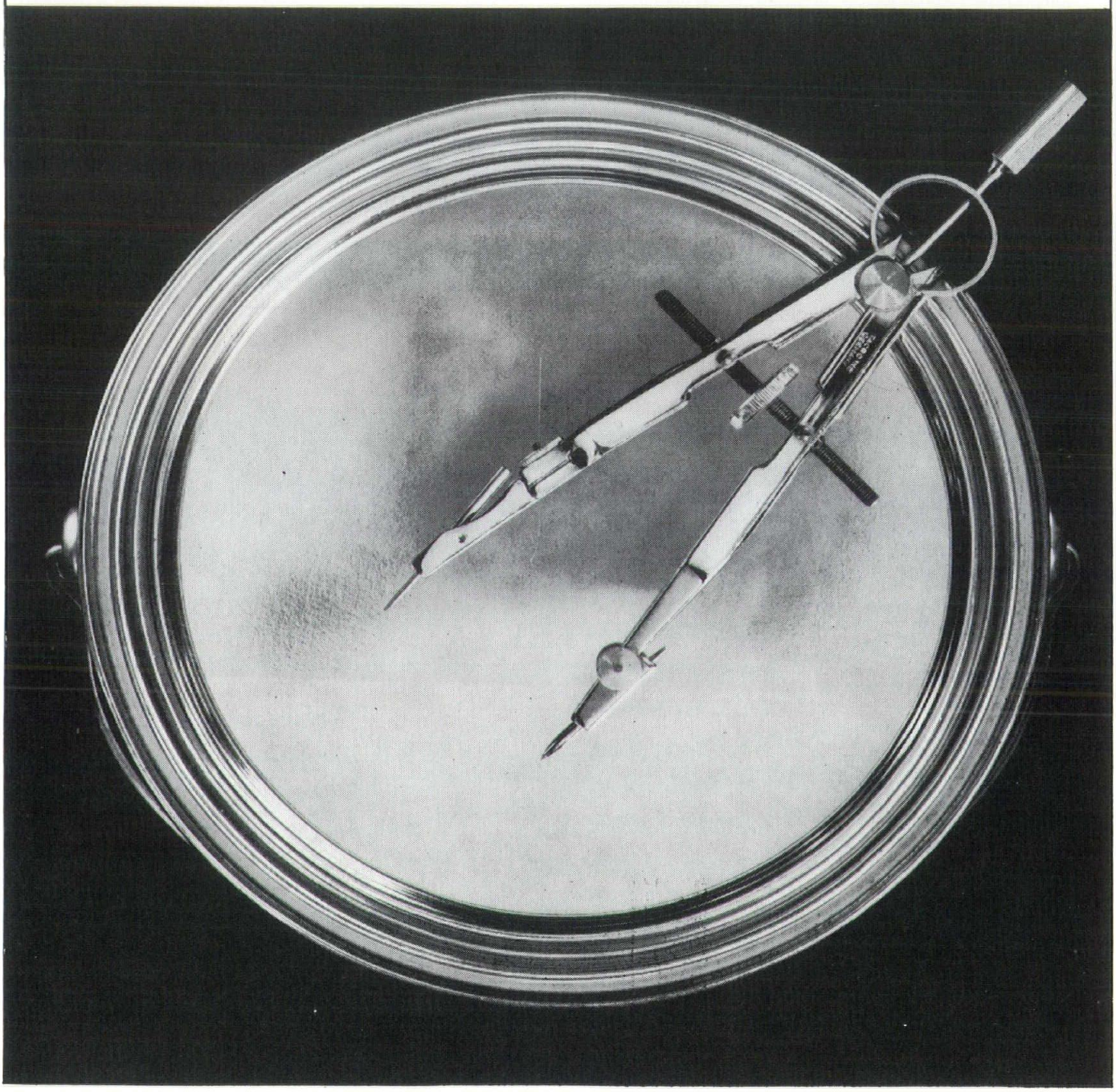

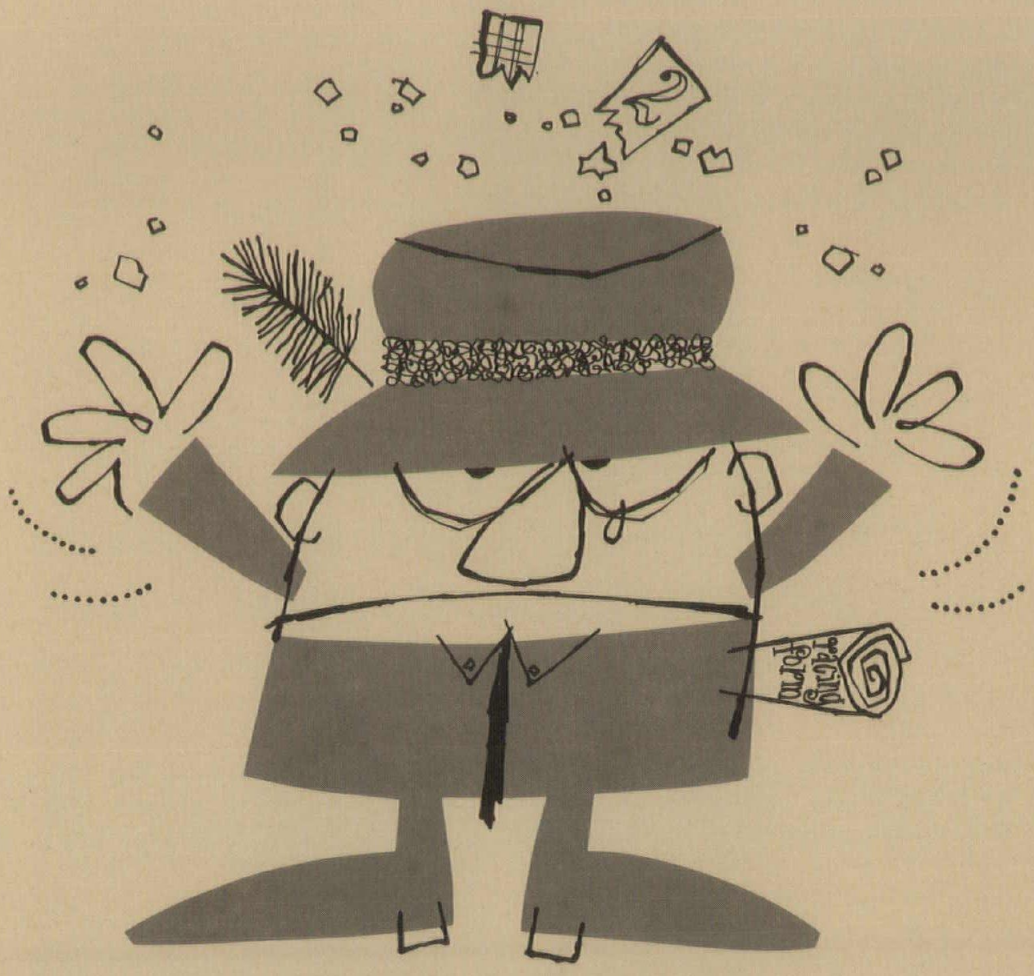

WANT TO PICK A WINNER?

Back one! And we'll give you a hot tip. Midwest Concrete Industries is ahead by a nose when it comes to precast concrete panels. As a matter of fact, we have a whole stable full of winners with such names as **service** and **quality**—both hard runners and consistent winners.

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is proud to announce the addition of 2 new Classic Ironspot Face Brick to its line.

ROSEWOOD

This finely textured velour brick with accenting Ironspots is highlighted by various shades of smoked coral. Colors range from medium browns to dark browns with a slight blueish cast. Rosewoods can be furnished with a percentage of brick with hearts and cross set marks.

TEAKWOOD

This finely textured velour brick is available in the architecturally popular shades of deep browns and blacks with a moderate amount of Ironspots.

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