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Airplanes and Architects

Regular readers of Architecture Minnesota may wonder what an airplane is doing on the cover of this issue. Please be assured that it is there on purpose. It is no ordinary airplane, as most of you already know from looking at its peculiar silhouette. It is, of course, the latest of Paul MacCready's experiments in the application of space-age technology to pursue impossible dreams. It is also an apt metaphor, I like to think, for at least one of architecture's three classic requisites. Certainly, Delight is here for all to enjoy; and soon enough, with a little more tinkering, Commodity and Firmness may also be incorporated.

Whereas Dr. MacCready's famous Gossamers, the Condor and Albatross, have depended on the resolute peddling of a skinny bike racer to get them aloft and keep them there, our cover subject, the Solar Challenger, relies on an energy source of special fascination to many architects. Dr. MacCready is himself a source of fascination. A physicist, he is also something of a throwback to an age when most of America's inventive genius was concentrated in tool sheds out behind the house. But it is still another quality, a dollop of humanism, that enables him to understand why architects are particularly intrigued by what he's up to.

When I phoned his company, Aero-Vironment, Inc., in Pasadena to see if we could borrow some color shots of the Solar Challenger, the switchboard operator put me straight through to the boss. This figured, considering Dr. MacCready's reputation as a plain shoe kind of man. I suggested to him that architects might appreciate seeing his solar-powered plane on the cover, and he replied, "Yes, I think that's possible." He told me he had talked about his work at the International Design Conference at Aspen and found that the architects in the crowd seemed more interested in his airplanes than anyone else. His conjecture is provocative: "I guess they also like to see if something can be done, starting from scratch." But why architects?

Possibly because of a vocational compulsion to know how things go together; to know how they are designed. For an architect is, by definition, a person who needs to know a fair amount about an awfully lot. Such a need was acknowledged recently in a survey developed by the National Council of Architectural Registration Boards. The NCARB committee responsible for designing the survey questionnaire found that in order to learn what the practice of architecture consists of, it had to list no less than 164 services an architect might be called on to perform. By any standard, that's a lot of services.

No single architect, of course, would ever be expected to perform more than a fraction of all those services. But a consensus prevails in the profession that if architects are anything, they are generalists. Being a generalist requires a person to be responsible for a myriad of concerns that no one else feels responsible for.

Fortunately, as Paul MacCready would perhaps agree, architects wish to know a lot—especially about matters that appeal to both the senses and the intellect in a way that kindles the imagination. The same holds true, I think, for people who, though not architects, are attracted to architecture by its timeless appeal as our most conspicuous art form.

The beauty of architecture is that you needn't be an architect to enjoy it. You may experience as much or as little of it as your personal inclination leads you to consume, on a graduated scale from zero to near-sublimity. You may approach architecture as an esthetic indulgence, with or without instruction from the experts. You may let it teach you history, art and music, not to overlook economics, social organization, politics and even show business.

If you wish, you may turn to architecture to expand your understanding of why one community works and another doesn't; of how space alone can affect the behavior of people, both as individuals and in their interpersonal relationships; of how architecture may enhance or devastate the natural environment; or of how it may articulate moral values and religious symbols.

Architecture, in short, is what you make of it.

As the new editor of Architecture Minnesota, I see an exceptional opportunity to make of architecture in the Upper Midwest (not overlooking the neighboring Prairie Provinces of Canada) a subject of compelling interest. An editor of this magazine begins work with several advantages. Foremost of them is the caliber of the publication itself. Under Bernard Jacobs' editorship the past several years, it has become a front-runner among architectural periodicals.

Then there is the society that publishes the magazine. Just as architects who hope to design beautiful buildings need sensitive clients, so too do editors need publishers with a high degree of tolerance and a sense of serious mission. Architecture Minnesota has such publishers, in literal abundance. I frankly know of no professional body that more consciously equates its professional concerns with those of the public than does MSAIA. This cast of mind, I feel sure, accounts for the broad regional acceptance of Architecture Minnesota, and not by architects and other design professionals alone, but also by the construction industry and that significant segment of the public which cares much and thinks a great deal about the quality of the man-made environment. This acceptance is consistent with MSAIA's wish for this magazine to reach beyond the narrow boundaries of a trade journal and address the broadest interested audience—even as distant as the Sun Belt, if there are students of the four-seasons environs to be found there.

Given the strength of an already fine publication and the outlook of a visionary organization, I greatly appreciate the opportunity to share with the Minnesota Society of Architects an optimistic editorial future for Architecture Minnesota.

Like the Solar Challenger, who knows? Maybe we can soar a little.

William Houseman
Editor

Photo: Don Monroe
Effective on and after July 1, 1980, retainage provisions of public contracts entered into by the State of Minnesota or any of its political subdivisions are amended as follows:

An amount not to exceed 5% of the value of the contract may be retained. Such retainage may be reduced or eliminated if work progresses satisfactorily.

Contractor may deposit certain securities with the public contracting agency, or in a bank or trust company, in lieu of cash retainage.

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Architect: Roberts Architects
Contractor: Olympic Investments, Inc.

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Architect: Truman Howell
Contractor: Harrison Development

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The Cities: Ready and Able for AIA

The odds are practically unbeatable, the wry cartoon shown here notwithstanding, that Minneapolis and St. Paul will be at their red-carpeted finest when the nation's architects arrive for the first Twin Cities' AIA Convention in 26 years. Just the same, we appreciate the group effort of several nimble wits at Ralph Q. Ritter and Associates for thinking up and executing the daft duo in this unfinished urbanscape.

Major Design Recycling for St. Paul Landmark

The redesign of the Park Square Court building will be the next in a series of major Lowertown renovations, Mayor George Latimer announced recently.

The handsome five-story Romanesque-style building, located in the heart of Lowertown at 6th and Sibley Streets adjacent to Mears Park, was built in 1886 and partially renovated eight years ago. It currently houses a number of offices, shops, and restaurants.

Park Square Court Associates recently purchased the building and plans a $4.8 million renovation to strengthen its retail and office functions by using the existing space to full advantage.

A major feature of the redesign will be a six-level central atrium. The entire complex will be connected by skyways with the rest of downtown when the Minnesota Mutual Building is completed by the end of 1981.

The renovation will be funded with $3.2 million in industrial revenue bonds and $1.6 million in developer equity. Lowertown Redevelopment Corporation, with McKnight Foundation backing, plans to guarantee half the debt service for the first five years. This special financial assistance is necessary to secure long-term financing commitments.

Project architect for Park Square Court is Miller Hanson Westerbeck Bell, which was responsible for the architectural renovation of Butler Square. Construction is slated to begin March 1, 1981, with completion expected by the end of 1982.

Electronics Firm Opt for Earth Shelter

Design work for an earth-sheltered office and manufacturing facility has been completed by Myers & Bennett Architects/BRW. It will serve as the headquarters for Holaday Circuits, a firm which engineers and fabricates electronic circuit boards. The building form has been shaped by the site and the client's strong commitment to energy conservation.

The upper level, which houses the 8,000 square foot office element appears to be a conventional, at-grade building but is actually built above part
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of the 27,000 square foot earth-sheltered manufacturing element. 19,000 square feet of the roof area is formally landscaped.

The building is located in Minnetonka, Minnesota, and scheduled for completion in late 1981.

Loring Park PUD Wins National Award

A jury for the 1980 Homes for Better Living Awards program has given First Honor Award to Loring Park Townhouses in downtown Minneapolis. Praising the village-like site plan in its urban setting, the jury noted that the architects, Frederick Bentz/Miller Thompson & Associates, have provided "a strong sense of individuality" to the 43 townhouses on the 2.6-acre site. Also cited was the project's separate but interlocking pedestrian and vehicular circulation systems. The competition is sponsored jointly by the American Institute of Architects and Housing Magazine. Developer of Loring Park Townhouses was Fine Associates Inc./B.W. & Leo Harris Co.

Minneapolis Firm to Design Tech Center

Medtronic, Inc. has commissioned Architectural Alliance, Minneapolis, to provide design services for 276,000 square feet of new construction at Medtronic's Business and Technology Center in Fridley, Minnesota. The new facilities will house much of the company's new product creation activities and will also become headquarters for four of its divisions. Occupancy is scheduled for early 1982. M. A. Mortenson Company is the General Contractor.

Award to Howell, Radloff, Thorpe

The firm of Howell, Radloff, Thorpe Architects, Inc. was awarded "Special Recognition" for creative design utilizing precast and prestressed concrete by the Prestressed Concrete Institute of Chicago. The national award was given for the 68,000 square foot Airport Business Center Office Building located at highway 494 and 79th Street South, Bloomington, Minnesota. Truman Howell and Mike Simon were the designers. The Contractor for the project was Harrison Development Company, Bloomington, Minnesota.
More funds for urban parks

In an effort to provide more and better close-to-home recreation for urban dwellers, the U.S. Interior Department's Heritage Conservation Recreation Service has awarded $95.6 million in grants to over 400 of the country's largest cities and counties. And, unless further budget-paring intervenes, another $25 million will be awarded in fiscal 1981 through the Urban Park and Recreation Recovery Program (UPARR) to applicants for preparing long-range recreation improvement plans. For more information, write: U.S. Department of Interior, Heritage Conservation and Recreation Service, 440 G Street, N.W., Washington, D.C. 20243.

Call for Entries

Women In Design International is sponsoring its first international design competition to recognize the work and achievement of outstanding women in all fields of design. Selected designers will be awarded publication in the Women In Design International Compendium, an illustrated review and source book.

Supported by the National Endowment for the Arts, the Women In Design International competition is open to professional and student women both nationally and internationally. Work may be entered in the following categories: graphic design, illustration, photography, industrial design, fashion design, fiber art, textile design (printed and woven fabrics), theatrical design (costume and sets), environmental design (planning, architecture, landscape, interior), sculpture, painting, jewelry design, ceramics, and an open category for miscellaneous.

Entries are to be submitted on 35 mm color slides, with a limit of 12 slides per category. The competition will be juried by a panel of internationally recognized designers, educators, and editors.

There will be a maximum entry fee of $40; entries can be made in more than one category for an additional fee. Women In Design International or local Women In Design chapters will receive a reduction in these fees.

The deadline for entries is April 30, 1981. For entry forms, write to: Call for Entries, WID International, 530 Howard Street, 2nd Floor, San Francisco, California 94105. Attn: Leslie Vood or Rebecca Covalt. For additional information: (415) 285-9106.

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Mark Twain
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Despite all our concern for energy consumption these days, we normally overlook the most important energy drain of all—our society's generation of solid wastes. Consider all the things that could be reused, and all that could be avoided altogether without any effect on our standard of living if we would only make the effort. In the home we dump everything into the same container, whether it be newspaper, bottle, can, or plastic. Food scraps are ground up and diluted with gallons of water to be washed away into the sewer system where they can be forgotten. At the office the deluge of discarded paper is rarely separated from other forms of waste even in businesses and agencies whose livelihoods depend upon paper and the distribution thereof.

In this country we have made material disposal easy and in so doing have encouraged far greater energy consumption through the replacement of raw materials that could otherwise have been recycled. As a consequence we have the highest level of energy consumption per capita of any nation in the world, although a number have equivalent per capita wealth. Most of us are aware of our wasteful practices, but are not sure how to respond. We have been told that we should recycle our wastes but we have forgotten how. Most of the mechanisms that used to exist to facilitate this kind of activity disappeared in the fifties when there was already cheap oil and we were told that within a matter of years there would also be energy from the nuclear fission process that would be "too cheap to meter". Replacement of goods would be cheap because energy would be cheap.

The world of disposable goods grew rapidly. Unfortunately (or perhaps in the long run, fortunately) our first encounter with cheap energy was short lived, and taught us in no uncertain terms that the indiscriminate waste of materials is both unnecessary and detrimental to the environment. The problem is to reestablish the mechanisms for waste recycling and energy conservation without decreasing the quality of life for the members of our society.
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Looking at the historical precedent for recycling, we don’t have to search far into our family histories to find the table scraps and vegetable trimmings being added to the compost out back rather than down the garbage disposal, or bottles being washed out and reused for the storage of other consumables bought in bulk rather than carefully packaged in single meal sized packages wrapped in plastic. But nowadays, unless one is willing to become a “grass roots” recycler, buying food at co-ops and taking recyclables to the (usually far away) recycling center oneself, the practice of recycling is nigh impossible.

The process required for the recycling of materials is extremely arduous and time consuming at this point.

Yet the need is there. Our landfills contain so much aluminum from the beer and pop cans we discard, that many of them now have aluminum contents higher than the best aluminum ore deposits in the country. These landfills also contain large quantities of glass, paper, steel, and plastics, all of them materials that have high energy production costs. If we looked at the amount of energy spent in the production of these materials, we would perhaps be more motivated to do something about the problem. Instead we take packaging and single use items for granted, and feel not even a pang of conscience as we throw away another bottle.

The state of Oregon has instituted a can and bottle recycling law that provides an incentive for people to recycle their containers. The size of a beer bottle is standardized and a 2 cent deposit is paid when the beer is bought. For an aluminum can the deposit is higher—5 cents per container. Even with this type of incentive not everyone returns the containers, but there are plenty of eager kids to do the job. Consequently one rarely sees a bottle or can lying beside the road, and energy is saved in the reduction in production costs for the same items. Similar bills have been proposed in other states around the country but there is always opposition from the bottling companies because such legislation means the investment in new equipment and new marketing and handling processes. The reservations of these companies are understandable, but the initial cost of such machinery is minimal when weighed against the net energy savings and reduced environmental impact of such a measure. Again an incentive is needed to make it worth these companies’ time.

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and money to invest in the new machinery.

There are also a few source separation recycling programs around the country that have addressed the incentive question. Source separation refers to the process of separating different types of solid wastes at their source—either in the home or in the workplace. Nationally there are over 200 communities that encourage the separation of paper from other forms of solid wastes using some form of incentive, such as reduced garbage collection fees. However, in many communities garbage collection is paid for with property tax money, leaving no easy mechanism for rewarding people for their recycling efforts.

Bottles and cans create a greater problem. Our kitchens and work places are not designed to allow for the easy separation of wastes into different receptacles. It is estimated that about 25 communities across the U.S. have a voluntary program for the source separation of metals and glass as well as paper, again with a reduced garbage collection fee as incentive. Until we start designing our environments to make the recycling process easy, however, such programs will continue to be few and far between.

These are just two examples of the kinds of mechanisms that need to be instituted before recycling can be effective. Human nature is such that if there is neither a strong incentive nor an easy way of doing something it almost certainly won’t get done. So it is with recycling. Although in the past we were willing to spend the time to maintain a compost and save bottles for other uses, as a culture we have become more and more jealous of our leisure time. We are willing to pay a lot for the convenience of not having to spend time maintaining our home and office environments. We have invested in such machines as trash compactors, waste disposers, and paper shredders to reduce the amount of time and effort involved in disposing of our solid wastes.

To expect our society to trade in its leisure time and revert to its previous patterns of waste recycling is unreal- istic. What is necessary rather is to create a new infrastructure for the recycling and reuse of materials. The new system must require no more and if possible less time and effort than with the present systems of disposal. This will take incentives such as the Oregon bottle bill and a reward system.
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For source separation to awaken people's interest and draw their attention to the problem.

Incentives for energy efficient construction practices have come into existence over the last few years as a result of our realizing that by not building energy efficiently now we will be paying dearly for our energy consumption in the future. The impact of recycling is less immediate perhaps than building energy efficiently, since we are not faced every month with a bill telling us how much we have consumed and how much we must pay for the wastes we have generated; yet our society's attitude towards waste is essentially the basis of all our energy consumption problems. By ignoring our waste production and disposal processes we are ignoring the largest contributors to our energy problems.

To create the new infrastructure will take a concerted and informed effort by the public to persuade politicians and administrators that recycling is an issue that requires attention and support. Only through incentives will a change of attitude occur. Only through incentives will we find businesses recycling paper, home owners separating their wastes at their source, and solid waste disposal services favoring pre-sorted trash over the typical mix we generate now.

In the long run recycling could have a tremendous effect on the conservation of our country's natural resources. To be successful it cannot mean a reduction in quality of life, and the benefits of the new systems must be clear as well as time and cost effective before any recycling will be implemented broadly. To avert a crisis however, action should begin immediately. We cannot afford to wait always for the crisis to be upon us before we react. We have to realize now that the ability to make waste is not a sign of affluence, but rather one of ignorance and negligence. We will be a wealthier nation in the future if we learn how to reduce the amount of waste we produce now.

Sarah Susanka, Assoc. AIA is an architect in the firm of Architectural Alliance and specializes in energy design projects.
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COMPARATIVE R VALUES (at 75° mean temperature) OF SHEATHINGS IN AVAILABLE THICKNESSES.

<table>
<thead>
<tr>
<th>Nominal Thickness R Values</th>
<th>1/2&quot;</th>
<th>3/8&quot;</th>
<th>3/4&quot;</th>
<th>7/8&quot;</th>
<th>1&quot;</th>
<th>1 1/4&quot;</th>
<th>1 1/2&quot;</th>
<th>1 3/4&quot;</th>
<th>2&quot;</th>
<th>2 1/4&quot;</th>
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<tbody>
<tr>
<td>At Time of Manufacture 75° Mean Temp.</td>
<td>4.4</td>
<td>5.5</td>
<td>6.6</td>
<td>7.7</td>
<td>8.8</td>
<td>11</td>
<td>13.2</td>
<td>15.4</td>
<td>17.6</td>
<td>19.8</td>
</tr>
<tr>
<td>At 32 Months Aged 75° Mean Temp.</td>
<td>3.6</td>
<td>4.5</td>
<td>5.4</td>
<td>6.3</td>
<td>7.2</td>
<td>9</td>
<td>10.8</td>
<td>12.6</td>
<td>14.4</td>
<td>16.2</td>
</tr>
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By James P. Cramer

Cramer: Leonard, you've been very busy and active between your architectural practice and teaching at the University of Minnesota. What motivated you to accept the MSAIA Presidency for 1981?

Parker: Over the years I've been impressed with the willingness, even eagerness, of our Minnesota architects to give of their time, energy and talent to strengthen the Minnesota Society of Architects. I am one of the many who benefit from their efforts, so it seems appropriate to actively participate with them in their good work. This notion has been reinforced by my perception that this is a very critical year for the MSAIA. Opportunities are here which require attention and response. Problems facing the architects of our state need to be resolved and important issues need to be addressed. I find this challenging and exciting.

Cramer: What are your priorities for MSAIA in 1981?

Parker: I think, it’s important first to continue and strengthen the ongoing work that some of our standing committees are doing: work related to energy conservation, professional development, code updating to improve the performance and safety of buildings we design, and important issues of fire and life-safety. Other areas such as registration laws, and our important state convention are also critical.

Cramer: You've said you would like to see better liaison and coordination between the architectural profession and the University of Minnesota.

Parker: Yes, Jim, that is an important objective. Very few people in Minnesota realize that the University of Minnesota School of Architecture, here in middle America, is one of the great schools of architecture in the world. The school has as its head one of the truly great architectural educators in Ralph Rapson. Ralph has put together a dedicated and excellent faculty. The school is doing a terrific job of providing the architectural offices in Minnesota with enthusiastic, talented and well-trained people. Over 75% of the architects working in this state are graduates of our own school. Yet, the profession for its part, has done little over the years to support the school in ways that really count, such as building endowments and providing dollars for scholarship funds, visiting lecturers and needed equipment. The profession’s record of support is disgraceful. That record must be improved and it will be.

Cramer: I have also heard you discuss the need to improve the image of the Minnesota architect. What do you mean by that?

Parker: Well, I find it surprising that the quality of our local architects and their work has not been recognized on our own home ground. Here in Minnesota we have an incredibly creative, competent, hard working family of architects. Their work has been published widely in our country, Europe and Japan. In the past ten years alone, Minnesota architects have cumulatively received more than 800 awards for design excellence regionally, nationally and internationally. Presently, Minnesota architects are designing projects in more than 30 states around the country. Yet in our own state of Minnesota, our local architects don’t have the visibility, identity and recognition their achievements deserve.

Cramer: Why is this so?

Parker: I’m sure there must be several reasons, but the main reason must be related to poor communication. We as architects must take the major blame for that. We really
have not done a very good job of letting our clientele and the public at large learn about us and our work. We must do something to improve on this. We must bring the quality of our service and the excellence of our work to the attention of the people of Minnesota. We want them to know about our people, our programs and our projects. Simply stated, we must let them know who we are, what we do and how well we do it; and we must be creative and inventive in the ways we communicate these facts and information to the people we want to reach.

Cramer: These are very spirited and dynamic goals for 1981.

Parker: It may not be possible to achieve all of them but I am confident we can get each critical issue worked on and started on a good path. A number of these issues have in fact been addressed in previous years and simply need nurturing and pushing.

Cramer: What is the current state of the profession's health in Minnesota?

Parker: Generally, we're very much alive and doing well. We have a thriving architectural community which has been able over the years to weather the low or recessive periods in our economy.

Cramer: The architectural profession is often hit first by economic recessions. And in good times and bad, the architect doesn't fare so well in income comparisons to other professions. Why do you think this is so?

Parker: Well, architecture is subject to the same major ups and downs in the economy as the rest of the construction industry. This recurring peak and valley condition does seriously impact pay scales for architects, and you are right when you say our income doesn't compare favorably to the income of professionals in law, medicine, accounting and even engineering. But the health of the economy is only one reason for the difference. Another, as I mentioned earlier, is that the way architects are perceived: We have an image problem. For some reason, the people we serve don't value our services as they do those of the other professions. This is unfortunate, because architecture is really the most public of all professions. Changing these perceptions can be accomplished. I believe, by providing quality service and quality design—and then making sure the world knows about it.

Cramer: Does Minnesota provide a good environment to practice architecture?

Parker: Yes, emphatically. The advantages of working in Minnesota far outweigh the disadvantages. We have a well-educated and informed clientele to work with. We have a strong, enlightened business community that manifests its belief in our cities and our state in many positive ways. We have a generally responsive political structure which supports positive steps to improve our environment. We have an excellent school of architecture. We have a work force in the construction industry that includes some of the finest craftsmen in the country. All of these make it easier for architects to do a good job. Then, of course, Minnesota is a great place to live under any circumstances. Our natural environment, our size and the variety of our seasons all contribute to a good quality of life.

Cramer: Can you think of any disadvantages?

Parker: I would call them constraints. A constrain can be an interesting challenge, and that's what we have here. It is more difficult, for example, to design for a climate where the extremes of temperature are so great. This places a burden not only on the architect but on the entire construction industry to design and build trouble-free buildings, despite the limitations imposed by very hot, very cold and very wet weather. Another inhibition for architects working in Minnesota is that new and sometimes radical ideas in design and construction are not as readily accepted here compared to the East and West Coasts. Finally, the record suggests that major elements of our business community believe that out-of-state architects can "do it better." For me that attitude represents a basic challenge to Minnesota architects.

Cramer: Minnesota is importing architectural design services, but isn't it also exporting them? For example, you're doing work in New York City. There are many Minnesota firms that have worked nationally and internationally. Is there a significant imbalance between the importing and exporting?

Parker: Jim, I don't have statistics to back this up, but it is my educated guess that we import design services much more than we export. That situation has been very frustrating to the architects of our state for quite some time. For example, every prestigious building built in downtown Minneapolis in the past fifteen years or so has been designed by nationally recognized, out-of-state architects. Over the past twelve years, over a billion dollars in construction value was designed by architects from out-of-state. Most of this work was commissioned by the private business sector. They paid somewhere between $50 and $60 million in professional fees for this work. These were dollars that left Minnesota, dollars that would otherwise have gone to Minnesota architects.

Cramer: Is this strictly a one-sided issue, or are there some benefits derived from having outsiders doing so much work in Minnesota?

Parker: Definitely not one-sided. I believe most fair-minded Minnesota architects would agree we have benefited from having nationally known creative designers exercising their talents in Minnesota. Their work has resulted in a design cross-fertilization, a sort of demonstration lab for new ideas, new detailing, construction techniques and interesting uses of materials. Most of their buildings are excellent designs. Through observation and study we have learned something from them, what we might do and sometimes what not to do.

I also think that the success of the out-of-state competition has sharpened the competitive spirit of some of our Minnesota architects. We don't like losing this important work, so we try harder. We want to impress the Minnesota business community that architects of comparable quality reside right here in Minnesota, and we must do this in the only way that counts: by achieving design excellence and providing quality service.

Cramer: That's a significant thought. What kind of a future do you see for architectural practice in Minnesota?

Continued on page 93
What Do Architects Owe the Public?

E. A. Søvik, FAIA

Almost everyone knows Antoine de Saint-Exupéry as the author of The Little Prince, that children's book for adults; but some may not remember that he was a pioneer in commercial aviation, flying for what is now Air France, in the 'twenties and 'thirties. He wrote several good books set in the context of flying, and in one of them he tells the story of a close friend named Guillaumet, who was flying the mail between Chile and Argentina.

A winter storm that brought 15 feet of snow in 48 hours to the Chilean slopes of the Andes had bottled up the airspaces, but Guillaumet had taken off hoping to find a rift. Over the mountains he was caught in down drafts. He couldn't return and finally landed on a frozen lake 10,000 feet up. He lay for two days and nights in a shelter made of mail sacks and snow. When the storm blew over he started a walk that was to continue for five days and four nights. He came out burnt and shrivelled, swollen and sore, splotched like an over-ripe fruit, with frozen hands and feet. He had been trudging on without food or mountain gear, scaling cols at 15,000 feet, crawling along vertical walls at 20 below, bleeding, never sleeping, half out of his mind, but remembering his family and his work. A prodigious achievement.

Saint-Exupéry tells the story to speculate on what virtues in the man brought him through that terrifying week. He mentions several: intelligence, obstinacy, strength, gravity, modesty and courage.

"But," says the author, "even this is not his fundamental quality. His . . . greatness consists in his sense of responsibility. He knew that he was responsible for himself, for the mails, for the fulfillment of the hopes of his comrades . . . He was responsible for that new element which the living were constructing and in which he was a participant. Responsible, in as much as his work contributed to it . . ."

"To be a man," says St. Exupéry, "is precisely to be responsible . . . It is to feel, when setting one's stone, that one is contributing to the building of the world."

It is interesting that in this account of the responsibility of an airman, the words finally fall into an architectural metaphor, "setting one's stone".

There may be something about our profession that brings people to think that though they may be skeptical about people who use words, dubious about the motives of merchants, and wary about the principles of public servants,
hey can expect architects to be responsible. Buildings are so durable, and irresponsibility so troublesome. Furthermore, our professional ancestors have so often been very responsible. People know that we ought to be responsible, so they tend to believe we are. We aren’t always responsible, of course. (Who is?) But if we ought to be, then it is worthwhile thinking about what that means. In the following, I offer some of the reflection from my service on the Minnesota State Board of Registration.

Who are architects responsible to? There are four answers: to the client, the public, the profession, and to the architect himself.

Most obviously the client is an object of our responsibility, and I need not dwell on that.

We are responsible also to the public, because every building, whether publicly owned or not, is in a real sense a public building. It is seen by many people, it is often used by many people, and in its life it may even be owned by many people. When we plan buildings, we ought to think of neighborhoods; when we plan neighborhoods...
we ought to think of cities; when we think of owners, we need to think of strangers; when we think of next year, we should also think of the next century.

Our responsibility is also to the profession. I quote from the rules of professional conduct: "A licensee shall avoid any act which may diminish public confidence in the profession and shall, at all times, conduct himself, in all his relations with his clients and public so as to maintain its reputation for professional integrity." Anything we do that is improper is a reflection not only on ourselves, but on the profession we belong to.

"The conscious concern for beauty is what distinguishes architecture from mere building."

And finally, although this is not the concern of the law of the Registration Board, an architect is responsible to himself. This is, I think, not a matter of personal or professional pride. Pride has nothing to do with it. It is rather a kind of humility, a recognition that having been given a life to live, that life must not be squandered. Having been given work to do, the work, not the worker, must be honored, loyally and dutifully. Having been given a talent, that talent must be invested, like a seed sown, honestly, faithfully, joyfully and gratefully.

Who is responsible? The person, not the firm. Licenses are not given to firms, they are given to individuals. There is no such thing as a professional firm, although there may be a firm of professionals. The law says that corporations or firms may engage in the work of architecture if the person in "responsible charge" is an architect. And it says what responsible charge means. The person in "responsible charge" determines technical questions of design and policy, advises with the client, superintends the work of subordinates and, in general, [is] the person whose professional skill and judgment are embodied in the plans, designs and advice involved in the work."

What gets in the way of responsibility? Two things, I think. The first is ignorance, or lack of skill, or uncertainty. One of the definitions of the difference between a profession and a trade or craft says that a professional is a person who can deal with theory as well as practice. Unpleasant things can happen when architects are not really qualified. I don't think we see (at the Registration Board) much evidence of deficiencies in technical building skills. But we do see evidence that architects don't always know the codes. And I think that is troublesome; codes are a sort of minimum standard, and an architect, because he is not simply a technician, but a theoretician, ought to be thinking ahead of the codes.

But there is another result of ignorance or uncertainty. And that is the circumstance where we delegate, or try to delegate, responsibility to other people. Some of us let the builder, or other unqualified people do the work we ought to be doing. This is what we are doing when we learn heavily on so-called performance specifications.

The other major seduction into irresponsibility is simply a moral inadequacy. In Tennessee William's play Cat on a Hot Tin Roof (which I've only seen in the movie version), there is a scene, where Paul Newman as Brick, the rebellious son, is arguing with his overbearing "Big Daddy" father and telling why he has separated himself from his family's conventional business and social structure, where everyone expected him to be a great success. Why is he rebellious? "Cupidity" he says, in one word; Cupidity is the character of the whole family and all their associates. Cupidity is the trouble with all of us, I suppose, and this is half the point of Cat on a Hot Tin Roof. What does cupidity lead to? A long litany of ills. Fee cutting and the inevitable cutting of services. Misrepresentation. Dishonesty. Evasion of duty.

There is a final question: "What is an architect responsible for?" The simple words of the law say that he is responsible for the health, safety and welfare of the public. These are not all simple words.

"Safety", of course, is the simplest of the three. Because it is the simplest, it is the one that appears most often in court, and the one that the general public tends to fasten on most readily. Safety is what the building codes focus on. And it is embarrassing when a professional fails to deal adequately with the safety of persons and property, because the standards are so clearly defined.

"Health" is something else for which we are responsible. In almost all respects physical health can be protected by adherence to the standards of design that are established by the building codes, by common sense and by common practice.

But we need to be attentive to the much more subtle and difficult matters of mental as well as physical health, as far as we can deal with them. I don't think the Registration Board is ever going to lodge a complaint against an architect because he has designed a place that is psychologically unhealthy. Nevertheless the places where we live and work do influence the condition of our minds. And this issue is important to architects because among all the professions and trades involved in the building industry, architects are the only people who have any sort of education or training involving the psychological effects of building forms. It is our responsibility, no one else's.

There is also such a thing as social health, the public welfare. What is there in the environment we make that can support a healthy society? What is there in environment that destroys it, that brings discord, alienation, loneliness, rootlessness, incoherence, despair? There are those things, and we are responsible to work against them.

When the law asks the architect to protect the public welfare, it is not concerned with things like the "welfare stat" or the "welfare department". It is concerned with the quality of our society as it can be influenced by our environment.

There are several aspects of an architect's job that distinguish it from the work of our colleagues in the building industry.

One is that architects are trained to plan—to organize spaces and things for human occupancy; we have that responsibility. Another is that architects are trained to coordinate the total planning and building enterprise; and they are generally given that responsibility, which is a heavy one.

But the most distinctive work of an architect is that he is the artist in the construction industry. Architecture is an art as well as a technology, and this quality, the esthetic aspect, the conscious concern for beauty, is what distinguishes architecture from mere building.

Continued on page 98
Energy and the Environment
to care and to plan

Minnesota Society American Institute of Architects
To the people,
the legislators
and public officials
of Minnesota:

We, the architects of Minnesota, wish to express our concerns to the people of Minnesota and, in specific support of these concerns, to place before you, your legislators and state officials a few proposals for your serious consideration. We are most concerned this year with the continuing energy crisis in all of its implications: social, economic and environmental. These, we believe, are concrete and "do-able" proposals. We stand ready, as members of the Minnesota Society American Institute of Architects, to work hand in hand with our state government to see them implemented and functioning to improve the quality of life for all Minnesotans. We pledge this year, as in past years, to support the growth of a robust and wholesome Minnesota. We promise once again to care and to plan.

Historical Perspective

Architects and builders alike will be seriously challenged in the 1980's by the need to improve standards of thermal integrity in America's existing stock of 78 million housing units and 35 billion square feet of commercial floor space. This is not a challenge to be taken lightly. With housing consuming over 16 quadrillion BTUs of energy a year and commercial buildings consuming another 10 quadrillion BTUs annually, our current stock accounts for over a third of the total annual US energy budget.*

For centuries, energy—or the lack of it—has impacted the shape of this nation's buildings. From the solar-oriented pueblos of the Southwest to the "saltboxes" of New England, from Louisiana's open verandas to the Midwest's half-buried sod roofed homes, much of American architectural history has reflected the struggle to deal with the unpleasant aspects of climate and environment, without en-

*(Research & Design, Summer 1980)
ergy assistance. More recently, with the sophistication of lighting, heating, and cooling systems and the plentiful supply of cheap energy to power them, designers have been far less aware of that struggle. Now, with the onset of the energy crisis, the pioneering work in buildings that respond to climate done by our forefathers is being recognized.

The energy-conscious retrofitting of many existing buildings can create a tremendous new "source" of energy, through conservation. We must fully understand and appreciate the conditioning and background factors which shaped previous environments. Continuity and an understanding of historical precedent are vital to good design. It is futile to throw out the heritage of the past, for to do so is to deprive ourselves of important resources. It is important that we recognize the value of our existing buildings and reclaim them as enhanced living spaces.

As responsible designers it is our job, our moral obligation to the American people, to meet these challenges.

We are concerned that many features of our built environment are being irreversibly and unnecessarily altered or destroyed. We feel that there must be a common evaluative process whereby the significance of historic resources can be determined. For these reasons . . .

We propose:

- That conservation-based redevelopment be encouraged where it is most needed.
- That funding be increased for preservation activities through the Minnesota Historical Society, with an emphasis on preservation, restoration, energy conservation and adaptive reuse.
- That historic resource evaluative criteria be established with an emphasis on redevelopment prospects.

Education

Education about energy and environmental solutions is one of our most crucial and necessary concerns. It appears that the general public does not believe that there is an energy problem. Too often the general public is misinformed and sometimes misled regarding energy related issues and products.

The people of Minnesota require up-to-date information or testimony relating to energy and its relationship to the environment. Professional groups and governmental bodies need to interact in dealing with the impact of energy issues.

The collection and analysis of data on the use and conservation of energy has undergone a virtual explosion in the past decade. We are concerned that the information generated be useful, factual, and in the best interest of the public. We are also concerned about the perception of the energy issues as it affects legislation. For these reasons . . .

We propose:

- That the MEA be authorized to support public dissemination of validated information on energy and the environment.
- That Minnesota establish energy education programs for building code officials, developers, realtors, building trade members, architects, engineers, and others.
- That a data bank be developed to provide energy conserving ideas and information for legislators, design professionals and the public.
Energy and the Environment

All life forms, including human beings, require certain quantities of energy and other resources simply to survive. Attendant with these needs is the ability of a given species to adapt to its environment. Humans, for the past several thousand years, have been able to adapt largely because environmental changes have taken place relatively slowly. Now, the rapidity of change due to human activities threatens to upset the natural balance of the environment and constitutes the greatest hazard for the continuation of life on this planet.

As the earth's resources continue to be depleted, governments and institutions tend to see "energy policies" as a solution to the problem. Therefore, any energy policy must be carefully considered for its resulting physical and environmental consequences in order to insure the continued adaptability of all species. For these reasons . . .

We propose:

- That the legislature develop a policy to reduce waste emission from all fuel conversion devices.
- That the legislature encourage "quality" rather than "quantity" and thereby help to reduce false throw-away economies.
- That key personnel from the Minnesota Energy Agency (MEA), the Minnesota Environmental Quality Board-State Planning Agency, and the Department of Economic Development be merged to establish criteria for deciding priorities to conserve the State's resources.

Economics

Minnesotans experience a high energy demand (and therefore high energy cost) climate. Since Minnesota is not a fuel producer, a large portion of the money paid for fuel leaves the state. The lost money weakens the economic base, increases prices of goods and services, and reduces available capital. When available capital is reduced, the cost of investment becomes prohibitive; a condition we are now painfully experiencing. Americans must act now or the number of options will be severely limited in the future.

Although Minnesotans are taking great strides in actively supporting energy conservation and research, there are a number of concerns that should be addressed.

Minnesota's dependence upon out-of-state fuel sources will continue to affect the economy and thus the need for constant monitoring in order to maintain a balance.

Minnesota's population and business activity will diminish as more citizens and firms choose to live in less energy-expensive climates.

As people become interested and actively concerned about our society, conservation of energy must become profitable. On the private level, profitable short term payback periods and tax incentives for retrofitting existing and new buildings may not be sufficient for long term payoffs. Methods of analyzing
building performance and studying building life-cycle cost implications must give the true, long term picture. Therefore...

We propose:

- That concurrence with the Minnesota Energy Agency (MEA), steps should be taken to promote appropriate management of existing fuels and accelerate planned conservation by requiring strong energy management.
- That the State should develop and refine energy resources within our state.
- That priority should be given to creating incentives for additional private funding for energy conservation.
- That there is a need for research, new services, tax credits and aids in creating energy management programs for businesses and residential consumers.
- That conservation be made profitable by establishing districts for utility conservation. Utilities within these districts would offer energy conservation packages of equipment and services to building owners; the incentive being an immediate energy bill discount upon joining the system.
- That the MEA and the Public Services Commission (PSC) research the possibility for establishing operational energy efficiency standards for buildings. That the MEA and the PSC establish a preferential energy rate system which would distribute rate increases only among those buildings that do not meet the operational energy standards.
- That cost-benefit or life-cycle cost analysis should be required of all construction projects. The marginal replacement cost of energy (as determined by MEA) should be used in making such calculations.
- That businesses, when calculating state income taxes only, should be permitted to declare the cost of all energy conservation and energy producing investments as operating expenses that would not be amortized.
Community Planning

Community planning that is mindful of energy use is an essential element in developing conditions which promote appropriate technology, encourage recycling and stimulate energy-conscious design. Broad scale planning decisions can greatly impact the built environment, therefore it is important that architects participate in the formulation of guidelines for the planning process.

Many of the nation's urban centers are in sad disrepair and unable to cope with rising managerial problems due to planning strategies of the past. Current transportation systems are energy intensive, economically inefficient and often poorly planned and maintained. Certain zoning ordinances encourage urban sprawl and decentralization of services, discourage building reuse and corral vital sections of some cities into confined areas. Tax incentives do not adequately promote energy retrofit for building reuse and discourage neighborhood revitalization. For these reasons . . .

We propose:

- That funding be targeted for energy efficient projects in the form of block grants and urban homestead proposals.
- That energy used to transport persons, materials and services be surveyed to help develop energy efficient land use patterns.
- That mass transit and other forms of energy conservative delivery systems receive maximum research and support.
- That weatherization programs be made a part of the fuel assistance programs.
- That an analysis be made of existing growth patterns of urban and rural areas and that these areas be encouraged to curtail inappropriate growth or energy inefficient development.
- That more extensive and selective tax incentives and low interest loans be made available to those who follow energy conserving development practices, retrofit existing structures and recycle existing buildings for active reuse.
- That utilization of energy from waste be promoted through incentives to those who install waste-energy utilization equipment.
- That waste recycling be promoted with direct grants and incentives to companies willing to undertake such programs.

Transit model: Summertime streetcar service attracts enthusiastic riders. Below: Single-family housing project encroaches on Colorado countryside.

Codes and Ordinances

Minnesota can control the energy impact of its buildings through improved energy standards as a part of the State Building Code, such as solar access ordinances and Building Energy Performance Standards (BEPS).

Solar access is a very important, but extremely complex issue and requires thoughtful analysis and deliberation. The rights of one property owner to the benefits of the sun in many instances may place stringent limitations on the rights of an adjacent property owner to develop his property according to his needs. Conversely, the rights of one property owner to develop his property within existing zoning regulations may deny solar access to an adjacent property. Great care must be exercised in arriving at a set of regulations to deal with these conflicting property rights.

The AIA, in its policy statement on BEPS, states that building energy standards do not necessarily
constitute the only or ultimate process by which the conservation of energy use in buildings can be achieved. It is our position that the creation of economic incentives and increased public awareness have the potential to reduce energy consumption in the built environment in substantially greater amounts than possible through the regulatory process. The MSAIA is committed to BEPS and recognizes the differences between performance and prescriptive standards, acknowledges the value of these two types of energy standards, and seeks therefore, more responsive and effective collaboration to develop and improve BEPS standards.

We must educate and hold responsible all parties involved in the design, construction and operation of buildings. The MSAIA is concerned that the incentives to design and construct energy efficient buildings tend to vary based on the builder, client, and location, and in many cases the incentive to design an energy efficient building is limited because the costs of operating the building are not always of primary concern. Therefore . . .

We propose:

- That the Building Code Division be authorized to contract for research in the development of amendments to the State Building Code which address new energy conservation techniques. Such research should be conducted by highly qualified independent professional organizations and be monitored by a licensed architect and licensed engineer in the Building Code Division. Atriums, earth sheltering, double envelope, passive solar greenhouse and natural ventilation cooling techniques should be included in this research as soon as possible.
- That the Building Code Division contract for research on ventilation rates, illumination levels, fire separation requirements, and the recycling of buildings, consistent with maintenance of environments that are safe, healthful, accessible and efficient.
- That the State Building Code be amended to adopt a modification of the most current version of the Building Energy Performance Standards (BEPS). For a maximum of two years, designers would not need to comply with the BEPS standards provided, however, the energy consumption analysis has been completed and the design meets all the requirements of the component energy standards currently in effect.
- That the MEA actively seek Federal funds for extensive educational programs to train officials and designers for evaluating total building energy consumption analysis in conformance with the BEPS evaluation techniques.
- That research be done on solar zoning ordinances with a diverse group of professionals to evaluate and propose model legislative guidelines.
- That strategies be developed that allow for the use of surplus energy from one building by others through utility networks.
Guide to Architectural Firms

The Minnesota Society American Institute of Architects (MSAIA) is an association of architects and related professionals in Minnesota, with 1,000 members statewide. The MSAIA is a component of the AIA, American Institute of Architects, located in Washington, D.C. The AIA administers programs of nationwide interest, conducts research, offers professional education programs and lobbies on behalf of the profession.

The MSAIA is headquartered at 314 Clifton Avenue, Minneapolis, in the E. F. Carpenter Mansion, (shown above), a restored historic residence designed in 1906 by William Channing Whitney, one of Minneapolis' most prominent architects.

The purpose of the MSAIA is threefold: To provide advocacy for the architectural profession, to provide programs and services to MSAIA members, and to increase public awareness and understanding of the built environment and architectural services. Advocacy on such issues as historic preservation, energy and building codes, planning and urban design fosters a close relationship between architects and governmental agencies, as well as related professional organizations. A number of diverse and stimulating educational programs are offered each year so that architects, designers and affiliated specialists may continue their professional growth within the community. Through active involvement with local and national media, public education programs, speaker's service, bookstore, and the bimonthly magazine Architecture Minnesota, the MSAIA informs the public about architecture and related building and design concerns.

MANY SERVICES TO THE PUBLIC AND TO THE PROFESSION INCLUDING:

* The Architectural Center, a bookstore in the Northwestern Skyway in St. Paul, with publications related to architecture and design, AIA documents, and unique gifts.

* A Center for Public Education in Architecture and Design, funded by the Minnesota State Arts Board and the National Endowment for the Arts.

* Brochures and pamphlets on architect's services, careers in architecture, selecting an architect, solar energy.

* Films, audio-visual aids, speakers for civic organizations, schools, service groups.

(The guide to firms does not include all design-related firms. The listing includes AIA-affiliated architectural firms which have completed survey information.)
THE ADAMS GROUP & AEI DESIGN, INC.
118 E. 26th St.
Minneapolis, MN 55404
612/672-8506
Established 1972

C. Culver Adams
Roger A. Erickson

<table>
<thead>
<tr>
<th>Work %</th>
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<tbody>
<tr>
<td>Commercial, Office, Retail</td>
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<tr>
<td>Housing</td>
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<tr>
<td>Other</td>
</tr>
</tbody>
</table>

Minnesota 95% Other U.S. 5%

Franklin National Bank of Minneapolis, Motor
Bank & Remodeling; The Satterlee Co.,
Remodeling; The City of Edina Park Shelter
Building; Pine River, MN Section 8 Housing;
Smith Residence, Minnetonka; Life Safety &
Ward Remodeling, St. Peter State Hospital

Clients contact: Mr. C. Culver Adams

THE ADKINS ASSOCIATION INC.
JACKELS-MORGAN-PETERSON-SJOBECB
901 Jefferson Ave.
St. Paul, MN 55102

Gross Construction Volume of Projects
1979 $7,250,000
1980 $8,700,000
1981 $9,250,000

Firm Personnel by Discipline
Architectural 13
Administrative 2
Total in Firm 15

<table>
<thead>
<tr>
<th>Work %</th>
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<tbody>
<tr>
<td>Office Buildings</td>
</tr>
<tr>
<td>Restaurants</td>
</tr>
<tr>
<td>Industrial</td>
</tr>
<tr>
<td>Educational</td>
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<tr>
<td>Banks/Financial</td>
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<tr>
<td>Medical/Health Care</td>
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<tr>
<td>Solar and/or Earth Sheltered</td>
</tr>
<tr>
<td>Townhouses/Apartments/Condominiums</td>
</tr>
<tr>
<td>Municipal Buildings</td>
</tr>
<tr>
<td>Restoration/Remodeling</td>
</tr>
<tr>
<td>Planning</td>
</tr>
<tr>
<td>Churches/Worship</td>
</tr>
</tbody>
</table>

Upper Midwest 95% Other U.S. 5%

Immanuel Lutheran Church, Eau Claire, WI; Life
Safety Remodeling, MN Veteran's Home,
Hastings; MHFA Energy Efficient Housing
Demonstration Program, St. Paul, MN;
Elementary School Addition & Remodeling,
Sleepy Eye, MN; Community Electronics
Corporation, Minneapolis, MN; MTC Bus
Garage, St. Paul, MN

Manufacturers contact: Robert T. Jackels
Clients contact: All four principals

ALPHA ARCHITECTS
(see page 91)
CHITECTURE IV
SHELBY-PORTER-SIMICH-WHITEMAN, INC.
6 East First St.
St. Paul, MN 55101
762-5124
Established 1935

Personnel by Discipline
Architects 7-8
Structural 5
Mechanical/Health Care 2

Gross Construction Volume of Projects
1979 $5,500,000
1980 $5,5 million
1981 $6 million

Personnel by Discipline
Architects 26
Structural 4
Mechanical/Health Care 4

Interior Design 2
Solar and/or Earth Sheltered 2
Architect Designed Homes 2
Townhouses/Apartments 2
Condominiums 4
Municipal Buildings 2
Restoration/Renovation 2
Planning 2
Churches/Worship 2
Landscape Architecture 2
Airport Terminal Facilities 10

Upper Midwest 50% Other U.S. 50%

Manufacturers contact: Darrell D. Carlson
Clients contact: Robert R. Nelson, Robert C. Armbruster or Darrell D. Carlson

ARCHITECTURAL ALLIANCE EAST
325 Cedar St., Suite 208
St. Paul, MN 55101
612/221-1908
Established 1979

Robert R. Nelson
Robert C. Armbruster
Darrell D. Carlson

Gross Construction Volume of Projects
1979 New Firm
1980 $5 million

Office Buildings 47
Shops 5
Restaurants 2
Industrial 2
Educational 10
Banks/Financial 10
Medical/Health Care 2
Interior Design 2
Solar and/or Earth Sheltered 2
Architect Designed Homes 2
Townhouses/Apartments 3
Condominiums 4
Municipal Buildings 2
Restoration/Renovation 2
Planning 2
Churches/Worship 2
Landscape Architecture 2
Airport Terminal Facilities 10

Upper Midwest 100% Other U.S. 0%

Manufacturers contact: Chris Johnson,
Rochester or Jim Springborg, Forest City, IA
Clients contact: Gordon Gjetten, Willis Schellberg, Byron Stadsvold, Rochester or Bob Johnson, Forest City, IA

THE ARCHITECTURAL GROUP, LTD.
112 Nicollet Mall
Minneapolis, MN 55403
612/332-8901
Established 1975

John T. Klick
Robert McStott Lucius

Gross Construction Volume of Projects
1979 $6,924,000
1980 $9,125,000
1981 $11,115,000

Firm Personnel by Discipline
Architectural 6
Administrative 1

Total in Firm 7

Office Buildings 5
Townhouses/Apartments 5
Condominiums 5
Restoration/Renovation 5
Planning 1
Solar and/or Earth Sheltered 5
Industrial 2
Shopping Centers/Retail 5

Upper Midwest 100%

Manufacturers contact: Robert McStott Lucius
Clients contact: John T. Klick or Robert McStott Lucius
THE ARCHITECTURAL PARTNERSHIP, INC.
430 Oak Grove Street
Suite 400
Minneapolis, MN 55403
612/871-6771
Established 1960
Dennis Mulvey
Wayne L. Harmala
Richard W. Delapp
Gross Construction Volume of Projects
1979 $6 million
1980 $7 million
1981 $20 million
Firm Personnel by Discipline
Architectural 8
Landscape Architects 1
Interior Designers 1
Administrative 3
Total in Firm 13

ARMSWORTH, TORSETH, SKOLD & RYDEEN, INC.
4901 Olson Memorial Hwy.
Minneapolis, MN 55422
612/645-3731
Established 1944
Kenneth L. Skold
James E. Torseth
John C. Conley
Kenneth E. Grabow
LeRoy H. Palmquist
Harold E. Shull
Donald L. Yungner
Gross Construction Volume of Projects
1979 $16 million
1980 $20 million
1981 $24 million
Firm Personnel by Discipline
Architectural 20
Engineering 9
Interior Designers 1
Administrative 4
Total in Firm 34

ASSOCIATED ARCHITECTS AND ENGINEERS
241 S. Cleveland
St. Paul, MN 55105
612/698-0808
Established 1960
James E. Speckmann
Mearl E. Peterson
Charles D. Liddy, Jr.
Grant Peterson
Gross Construction Volume of Projects
1979 $5 million
1980 $6.5 million
1981 $10 million
Firm Personnel by Discipline
Architectural 4
Other Technical 2
Other General 1
Total in Firm 7

BAKER ASSOCIATES, INC.
301 Chamber of Commerce
15 So. 5th Street
Minneapolis, MN 55402
612/339-8601
Established 1961
Edward F. Baker
Brian R. Morgan
Gross Construction Volume of Projects
1979 $12 million
1980 $30 million
1981(est.) $35 million
Firm Personnel by Discipline
Architectural 12
Other General 2
Total in Firm 14

B B

Architectural Minnesota-Feb. 1981
NNIS BATTY & ASSOCIATES, INC.
CHICAGON
300 Industrial Park Blvd.
Minneapolis, MN 55441
612-559-0945
Established 1976
Dennis Batty
AIA

Office Buildings 15
Medical/Health Care 5
Solar and/or Earth Sheltered 10
Architect Designed Homes 5
Townhouses/Apartments 35
Condominiums 35
Churches/Worship 30

*Note: This number is somewhat misleading due to the fact that passive solar and earth berming techniques are being employed in the majority of the architect projects.

Upper Midwest 90% Other U.S. 10%

*Immunon Nuclear Corp. Stillwater, MN; Our Redeemer Lutheran Church, Pine City, MN; Columbia Heights, CBD Redevelopment, Columbia Heights, MN; St. Joseph's Catholic Church, Williston, ND

Manufacturers contact: Dan Tideman or Linda Batty

NIS BATTY & ASSOCIATES, INC.

1534 Dain Tower
Minneapolis, MN 55402
612/335-1207
Established 1977
Charles B. French
AIA

Office Buildings 5
Medical/Health Care 5
Solar and/or Earth Sheltered 10
Architect Designed Homes 5
Office Buildings 15
Industrial 10

Upper Midwest 100%


Manufacturers Contact: S. J. Bernstein
Clients Contact: S. J. Bernstein

BETA ARCHITECTS—PLANNERS

7711 Country Club Drive
Minneapolis, MN 55427
612-545-8319
Established 1977

507/433-5834

Baker

Architecture Minnesota/Feb. 1981 51

BETA ARCHITECTS

401 N. Main Street
Austin, MN 55912
507/433-5834
Established 1977

Charles B. French
AIA

Gross Construction Volume of Projects

1979 $1.2 million
1980 $2.1 million
1981 (est.) $1.5 million

Firm Personnel by Discipline
Architectural 1
Engineering 1
Interior Designers 1
Administrative 1

Total in Firm 3

Gross Construction Volume of Projects

1979 $1.2 million
1980 $2.1 million
1981 (est.) $1.5 million

Firm Personnel by Discipline
Architectural 1
Administrative 1
Other Technical 1

Total in Firm 3
Office Buildings: 25
Industrial: 10
Solar and/or Earth Sheltered: 15
Architect Designed Homes: 35
Medical/Health Care: 5
Renderings: 5
Other: 5

Upper Midwest 100%
Solar Residence Prototype, MEA Preliminary Design Award; Residepce, Passive Solar & Woodburning; Sheltered Workshop, Expansion & Remodeling; Mental Health Facilities

Manufacturers contact: Charles B. French
Clients contact: Charles B. French

BETTENBURG, TOWNSEND, STOLTE & COMB, INC.
672 Transfer Rd.
St. Paul, MN 55114
612/646-2558
Established 1922
Gordon M. Comb
Edward F. Kishel
William J. Estebo
Arthur H. Haglund

Gross Construction Volume of Projects
1979 $3.5 million
1980 $4 million
1981 (est.) $5 million

Firm Personnel by Discipline
Architectural 4
Engineering 4
Administrative 1
Other Technical 1
Total in Firm 10

Office Buildings: 20
Architect Designed Homes: 40
Apartments/Condominiums: 40
Restoration/Renovation: 80

Upper Midwest 100%
Holmberg Residence, Better Homes & Gardens; Commodore Squash Club; Commodore Condominium; Stone Church Condominium

Manufacturers contact: Roland Swenson
Clients contact: Thomas R. Blanck

RAYMOND J. BLESENER ARCHITECT
2311 Woodland Ave.
Duluth, MN 55803
218/728-4293
Established 1977
Raymond J. Blesener

Firm Personnel by Discipline
Architectural 5
Administrative 1
Total in Firm 6

Office Building: 10
Shopping Centers/Retail: 30
Restaurants: 10
Banks/Financial: 10
Solar and/or Earth Sheltered: 5
Architect Designed Homes: 5
Townhouses/Apartments/Condominiums: 30
Restoration/Renovation: 10

Upper Midwest 100%

Manufacturers contact: Raymond J. Blesener
Clients contact: Raymond J. Blesener

BLUMENTALS/ARCHITECTURE INC.
6100 Summit Dr. N.
Brooklyn Center, MN 55430
612/571-5550
Established 1976
Susan Blumentals

Gross Construction Volume of Projects
1979 $10 million
1980 $10 million
1981 (est.) $10 million

Firm Personnel by Discipline
Architectural 6
Administrative ½
Total in Firm 6½

Office Buildings: 8
Shopping Centers/Retail: 2
Industrial: 12
Banks/Financial: 2
Architect Designed Homes: 2

Upper Midwest 100%

Manufacturers contact: James W. Bragonier
Clients contact: James W. Bragonier

BOARMAN ARCHITECTS, INC.
710 Chamber of Commerce Bldg.
15 S. Fifth Street
Minneapolis, MN 55402
612/339-3752
Established 1978
Jack Boarman

Gross Construction Volume of Projects
1979 $28 million
1980 $16 million
1991 (est.) $15 million

Firm Personnel by Discipline
Architectural 6
Administrative 1
Total in Firm 7

Office Buildings: 10
Industrial: 10
Banks/Financial: 30
Interior Design: 10
Townhouses/Apartments/Condominiums: 20
Municipal Buildings: 10
Restoration/Renovation: 10

Upper Midwest 100%
National City Bank of Minneapolis; Chanhassen Municipal Facilities; Iowa State Savings Bank; Sheraton Ritz Hotel; Dickenson Development Projects; 5th & Washington Parking Ramp

Manufacturers contact: Jack Boarman or Svindal Andersen
Clients contact: Jack Boarman

BRAGONIER ARCHITECT
304 E. 2nd Street
Northfield, MN 55057
507/645-4294
7373 W. 147th Street
Apple Valley, MN 55124
612/432-2533
Established 1971
Jim Bragonier

Firm Personnel by Discipline
Architectural
Office Buildings: 15
Industrial: 10
Banks/Financial: 20
Architect Designed Homes: 25
Restoration/Renovation: 15
Development: 15

Upper Midwest 100%

Manufacturers contact: James W. Bragonier
Clients contact: James W. Bragonier
An intricate roof plan...made easy with Shaw’s trusses.
The luxury townhomes of Lexington Court
Builder: Bream Homes Inc.
### C

#### JAMES K. CARLSON
ARCHITECT-ENGINEER
300 Exchange Bldg
Winona, MN 55987
507/452-3361
Established 1969

<table>
<thead>
<tr>
<th>Work %</th>
<th>Educational</th>
<th>Medical/Health Care</th>
<th>Office Buildings</th>
<th>Churches/Worship</th>
<th>Solar and/or Earth Sheltered</th>
<th>Architect Designed Homes</th>
<th>Apartments/Condominiums</th>
<th>Restoration/Renovation</th>
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<td>50</td>
<td>10</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>5</td>
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</tbody>
</table>

**Firm Personnel by Discipline**
- Architectural: 4
- Administrative: 1
- Total in Firm: 5

**Gross Construction Volume of Projects**
- 1979: $3,000,000
- 1980: $3,500,000
- 1981: $5,000,000

**Manufacturers contact:** Ken Oulman
**Clients contact:** Principals

#### BROOKS CAVIN/JOHN ROVA ARCHITECTS
25 West Fifth Street
432 Landmark Center
St. Paul, MN 55102
612/224-2311
Established 1946
1974-John Rova

<table>
<thead>
<tr>
<th>Work %</th>
<th>Commercial, Office, Retail</th>
<th>Housing</th>
<th>Industrial</th>
<th>Educational</th>
<th>Religious</th>
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<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
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</tbody>
</table>

**Minnesota 90% Other U.S. 10%**

** Clients contact:**
- John P. Rova
- Elizabeth S. Close or Frederick H. Kirschman

**Manufacturers contact:**
- Brooks Cavin
- Winston A. Close, House Garman Hargens

**CONSTRUCTION DESIGN ARCHITECTS**
200 W. Old Shakopee Rd.
Bloomington, MN 55420
612/881-1585
Established 1968

<table>
<thead>
<tr>
<th>Work %</th>
<th>Total in Firm</th>
<th>Shopping Centers/Retail</th>
<th>Industrial</th>
<th>Banks/Financial</th>
<th>Townhouses</th>
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<tbody>
<tr>
<td></td>
<td>30</td>
<td>15</td>
<td>80</td>
<td>2</td>
<td>3</td>
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</tbody>
</table>

**Upper Midwest 100%**

**Manufacturers contact:** F. F. Schuck
**Clients contact:** F. F. Schuck

**Firm Personnel by Discipline**
- Architectural: 2
- Total in Firm: 2

**Gross Construction Volume of Projects**
- 1979: $2,500,000
- 1980: $7,000,000
- 1981: $1,500,000

**Established:** 1962

**JAMES M. COOPERMAN & ASSOCIATES**
ARCHITECTS, INC.
Shelard Tower
Minneapolis, MN 55426
612/545-0409
Established 1962

<table>
<thead>
<tr>
<th>Work %</th>
<th>Total in Firm</th>
<th>Shopping Centers/Retail</th>
<th>Industrial</th>
<th>Banks/Financial</th>
<th>Townhouses</th>
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<td></td>
<td>8</td>
<td>15</td>
<td>8</td>
<td>1</td>
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</tbody>
</table>

**Manufacturers contact:**
- Surendra Ahuja

**Firm Personnel by Discipline**
- Architectural: 8
- Administrative: 1
- Total in Firm: 10

**Gross Construction Volume of Projects**
- 1979: $6 million
- 1980: $6 million
- 1981 (est.): $7 million

**Established:** 1962
DAMBERG & PECK ARCHITECTS INC.
3200 Lincoln Bldg.
Virginia, MN 55742
218/741-7962
312 W. Superior Street
Duluth, MN 55802
218/722-7467
Established 1968

John D. Peck
John P. Damberg

Gross Construction Volume of Projects
1979 $12 million
1980 $10 million
1981 (est.) $8 million

Firm Personnel by Discipline
Architectural 9
Administrative 2
Total in Firm 11

Work %
Office Buildings 10
Townhouses/Apartments/Condominiums 25
Industrial 5
Banks/Financial 5
Medical/Health Care 10
Architect Designed Homes 10
Churches/Worship 10
Restoration/Renovation 10
Planning 5
Other 5

Upper Midwest 100%
Hotel Duluth Rehabilitation, Duluth, MN;
Government Service Center, Minn. Power and Light,
Chisholm, MN; Minn. Power and Light E.C.C.

Clients: John D. Peck, John P. Damberg

DavyMcKee CORPORATION
3122 14th Avenue E.,
Hibbing, MN 55746
218/262-1093
Established 1951

James J. Archambeau
Jack J. Ross
Myron D. Treichler

Firm Personnel by Discipline
Architectural 4
Engineering 69
Other Technical 6
Administrative 5
Other General 4
Total in Firm 91

Work %
Office Buildings 5
Industrial 95

Upper Midwest 40% Other U.S. 40%

DavyMcKee Office Building, Hibbing, MN;
Eveleth Taconite Company Processing Plant,
Eveleth, MN; Empire Mining Company Taconite
Processing Plant; Empire Mining Company Coal
Handling and Firing Facility; Burlington Northern
Pellet Transhipment Facility; Four Wastewater
Treatment Plants for Burlington Northern

Manufacturers contact: J. J. Ross

Clients: John J. Ross

HANS DEKKER ARCHITECTS & ASSOCIATES
2421 Irving Ave. S,
Minneapolis, MN 55405
612/374-5188
Established 1970

Hans Dekker

Gross Construction Volume of Projects
1979 $ 750,000
1980 $1,200,000

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Architect Designed Homes 30
Townhouses/Apartments/Condominiums 20
Municipal Buildings 3
Restoration/Renovation 15
Planning 5
Churches/Worship 15
Solar and/or Earth Sheltered 5

Upper Midwest 85% Other U.S. 15%
Basilica St. Mary, Restoration, Lighting
Design Merit, (Illuminating Eng. Soc.) Award;
Thornton House Apartments, Retrofitting;
Weaver Residence; Rockefeller/Dayton Residence;
Sherwood Arms Apt.’s, Norman, OK;
Maplewood Condominium Conversions,
Maplewood, MN

Manufacturers contact: Hans Dekker

Clients: Hans Dekker

DESIGN CONSORTIUM INC.
1612 Marquette Ave.
Minneapolis, MN 55403
612/341-3601
Established 1978

Timothy R. McCoy
James Geisler
Damon Farber
Sanford Stein

Gross Construction Volume of Projects
1979 $5,042,000
1980 $7 million
1981 (est.) $10 million

Firm Personnel by Discipline
Architectural 4
Landscape Architects 2
Interior Designers 1
Other Technical/Graphic Designer 2
Administrative 2
Total in Firm 11

Work %
Office Buildings 20
Shopping Centers/Retail 5
Restaurants 10
Solar and/or Earth Sheltered 10
Architect Designed homes 10
Municipal Buildings 15
Restoration/Renovation 15
Planning 8
Landscape Architecture 15

Upper Midwest 85% Other U.S. 15%
Les Quatre Amis Restaurant, Minneapolis, MN;
Pillsbury Waite Neighborhood Service Center,
Minneapolis, MN; Springbrook Nature Center,
Fridley, MN; The J8 Larson Associates, MSAIA
Merit Award 1979; Design Consortium Inc.,
MSAIA Merit Award 1978; Roger Opp
Residence, MSAIA Merit Award, 1978

Manufacturers contact: James Widder

Clients contact: Any Partner
**THE DESIGN PARTNERSHIP**

William C. Anderson  
Darrell D. Anderson  
612 338-8889  
Minneapolis, MN 55402  
**Established 1972**

**Gross Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>$25 million</td>
</tr>
<tr>
<td>1980</td>
<td>$25 million</td>
</tr>
<tr>
<td>1981</td>
<td>$20 million</td>
</tr>
</tbody>
</table>

**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>6</td>
</tr>
<tr>
<td>Administrative</td>
<td>1</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>7</td>
</tr>
</tbody>
</table>

**Office Buildings**  
15

**Shopping Centers/Retail**  
5

**Industrial**  
10

**Interior Design**  
5

**Architect Designed Homes**  
5

**Townhouses/Apartments/Condominiums**

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restoration/Renovation</td>
<td>5</td>
</tr>
<tr>
<td>Planning</td>
<td>5</td>
</tr>
<tr>
<td>Churches/Worship</td>
<td>5</td>
</tr>
<tr>
<td>Banks/Financial</td>
<td>15</td>
</tr>
</tbody>
</table>

**Work %**

<table>
<thead>
<tr>
<th>Category</th>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Buildings</td>
<td>15</td>
</tr>
<tr>
<td>Shopping Centers/Retail</td>
<td>20</td>
</tr>
<tr>
<td>Restaurants</td>
<td>10</td>
</tr>
<tr>
<td>Educational</td>
<td>20</td>
</tr>
<tr>
<td>Interior Design</td>
<td>10</td>
</tr>
<tr>
<td>Architect Designed Homes</td>
<td>10</td>
</tr>
<tr>
<td>Restoration/Renovation</td>
<td>10</td>
</tr>
<tr>
<td>Solar and/or Earth Sheltered</td>
<td>5</td>
</tr>
</tbody>
</table>

**Upper Midwest 100%**

**Loring Green West Condominiums, Minneapolis, MN:**

- $25 million

**Urban Integrated School, St. Paul, MN:**

- $20 million

**Other General**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative</td>
<td>1</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>6</td>
</tr>
</tbody>
</table>

**Work %**

<table>
<thead>
<tr>
<th>Category</th>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Buildings</td>
<td>15</td>
</tr>
<tr>
<td>Shopping Centers/Retail</td>
<td>10</td>
</tr>
<tr>
<td>Restaurants</td>
<td>5</td>
</tr>
<tr>
<td>Educational</td>
<td>5</td>
</tr>
<tr>
<td>Interior Design</td>
<td>5</td>
</tr>
<tr>
<td>Architect Designed Homes</td>
<td>5</td>
</tr>
<tr>
<td>Restoration/Renovation</td>
<td>5</td>
</tr>
<tr>
<td>Solar and/or Earth Sheltered</td>
<td>5</td>
</tr>
</tbody>
</table>

**Upper Midwest 90% Other U.S. 10%**

**Mai Tai Restaurant; Tonka Printing Company; Lake Place Condominiums, Midwest Yachts; Career Resource Center, Minnetonka Public Schools; Athletic Fields Study, Minnetonka Public Schools; Earth Integrated Solar Heated Residence**

**Manufacturers contact:** Bert Haglund

**Clients contact:** J. Nicholas Ruehl

**DESIGN TWO, INC.**

J. Nicholas Ruehl  
AIA  
684 Excelsior Blvd.  
Excelsior, MN 55331  
612 473-3291  
**Established 1971**

**Gross Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>$3,200,000</td>
</tr>
<tr>
<td>1980</td>
<td>$3 million</td>
</tr>
<tr>
<td>1981</td>
<td>$3,200,000</td>
</tr>
</tbody>
</table>

**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>4</td>
</tr>
<tr>
<td>Other Technical</td>
<td>1</td>
</tr>
<tr>
<td>Administrative</td>
<td>1</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>6</td>
</tr>
</tbody>
</table>

**Office Buildings**

- 15

**Shopping Centers/Retail**

- 20

**Restaurants**

- 10

**Educational**

- 20

**Interior Design**

- 10

**Architect Designed Homes**

- 10

**Restoration/Renovation**

- 10

**Solar and/or Earth Sheltered**

- 5

**Upper Midwest 90% Other U.S. 10%**

**Mai Tai Restaurant; Tonka Printing Company; Lake Place Condominiums, Midwest Yachts; Career Resource Center, Minnetonka Public Schools; Athletic Fields Study, Minnetonka Public Schools; Earth Integrated Solar Heated Residence**

**Manufacturers contact:** Bert Haglund

**Clients contact:** J. Nicholas Ruehl

**DESIGNERY, ARCHITECTURE**

Raymond R. Raffel  
AIA  
P.O. Box 57  
Stillwater, MN 55082  
612 433-3973  
**Established 1979**

**Gross Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>$1 million</td>
</tr>
<tr>
<td>1980</td>
<td>$3 million</td>
</tr>
<tr>
<td>1981</td>
<td>$3,500,000</td>
</tr>
</tbody>
</table>

**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>1</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>1</td>
</tr>
</tbody>
</table>

**Office Buildings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
</tr>
</tbody>
</table>

**Industrial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Solar and/or Earth Sheltered**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

**Architect Designed Homes**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Townhouses/Apartments/Condominiums**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Banks/Financial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**Restoration/Renovation**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Renderings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

**Upper Midwest 100%**

**Drive-in Facility, Forest Lake, MN; Capitol City Distributing, St. Paul, MN; Office/Warehouse, New Hope, MN; Remodeling & Alterations, Latuff Bros., St. Paul, MN; New Car Preparation & Storage Building, Tousley Ford, White Bear Lake, MN**

**Manufacturers contact:** Raymond Raffel

**Clients contact:** Raymond Raffel

**DICKEY-KODET/ARCHITECTS/INC.**

Arthur H. Dickey  
Edward J. Kodet, Jr.  
4930 France Ave S.  
Edina, MN 55440  
612 920-3993  
**Established 1962**

**Gross Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>$5 million</td>
</tr>
<tr>
<td>1980</td>
<td>$5.5 million</td>
</tr>
<tr>
<td>1981</td>
<td>$6 million</td>
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</tbody>
</table>

**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>5</td>
</tr>
<tr>
<td>Interior Designers</td>
<td>1</td>
</tr>
<tr>
<td>Other Technical</td>
<td>3</td>
</tr>
<tr>
<td>Administrative</td>
<td>2</td>
</tr>
<tr>
<td>Total General</td>
<td>1</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>12</td>
</tr>
</tbody>
</table>

**Office Buildings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Shopping Centers/Retail**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Restaurants**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Industrial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Banks/Financial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Interior Design**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Solar and/or Earth Sheltered**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Architect Designed Homes**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Restoration/Renovation**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Churches/Worship**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Medical/Health Care**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Planning**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

**Recreational**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Upper Midwest 95% Other U.S. 5%**

**Southdale YMCA, MSAIA Merit Award; Belzer Brenner Office Building; 1800 Fourth Avenue Condominiums; Lennox School Office and Community Center; Viking Press Industrial Plant; Chester's Restaurant, Minnetonka, MN; Franklin Hill Condominiums**

**Manufacturers contact:** Wayne Jeske

**Clients contact:** Arthur H. Dickey and Edward Kodet, Jr.

**du MONCEAUX AND ASSOCIATES, INC.**

3400 W. 66th Street  
Edina, MN 55435  
612 927-6766  
**Established 1979-80**

Greg A. du Monceaux  
M. Terry Larkin

**Gross Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>$5,000,000</td>
</tr>
<tr>
<td>1980</td>
<td>$10,000,000</td>
</tr>
<tr>
<td>1981</td>
<td>$15,000,000</td>
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</tbody>
</table>

**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>4</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>4</td>
</tr>
</tbody>
</table>

**Office Buildings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Townhouses/Apartments/Condominiums**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Shopping Centers/Retail**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
</tr>
</tbody>
</table>

**Restaurants**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Industrial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**Planning**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Upper Midwest 100%**

**Ward Ho Housing for the Elderly, Phoenix, AZ; Seward Square, Handicapped Housing, Minneapolis, MN; Rochester Methodist Hospital Retirement Center, Rochester, MN; Osborne Housing for the Elderly, Spring Lake Park, MN; Blaisdell Women’s Health Club, Minneapolis, MN**

**Manufacturers contact:** Rob Nierengarten

**Clients contact:** Jack Bowersox
F

STANLEY FISCHMAN ASSOCIATES, INC.
348 N. Prior Ave.
St. Paul, MN 55104
612/646-1381
Established 1965
Stanley Fishman
George Cundy

Gross Construction Volume of Projects
1979 $4 million
1980 $5 million
1981 (est.) $5 million

Firm Personnel by Discipline
Architectural
1
Engineering
2
Interior Designers
5
Other Technical
2
Administrative
9
Total in Firm
30

Work %
Office Buildings
15
Medical/Health Care
5
Solar and/or Earth Sheltered
5
Architect Designed Homes
5
Townhouses/Apartments/
Condominiums
15
Restoration/Renovation
20
Planning
5

Upper Midwest 100%
Addition to Mille Lacs Indian Museum, Vineland, MN; Woodmount Townhouses, Cottage Grove, MN; Victoria Townhouses, Brooklyn Center, MN; Higher Education Coordinating Board, St. Paul; Cedar Riverside Peoples Center; Riverview Manor Group Home for the Developmentally Disabled, Wanamingo, MN

Manufacturers contact: George Cundy
Clients contact: Stanley Fishman

ORLEN FJELSTED & ASSOCIATES, INC.
ARCHITECTS
313 Washington Street, Box 147
Northfield, MN 55057
612/336-2332
507/645-4407
Established 1972
Orlen Fjelsted
Don Starr

Firm Personnel by Discipline
Architectural
2
Administrative
1
Total in Firm
3

Office Buildings
15
Restaurants
10
Municipal Buildings
25
Restoration-Renovation
25

Upper Midwest 100%

Manufacturers contact: Orlen Fjelsted
Clients contact: Orlen Fjelsted

FOSS ENGELSTAD & FOSS, INC.
ARCHITECTS, ENGINEERS, & INTERIOR DESIGNERS
215 Main Avenue
Moorhead, MN 56560
218/236-1202
Established 1910
Mark B. Foss
John E. Foss
M. O. Foss, Jr.
Willis Stelter
Royce Yeater
William Cowman

Firm Personnel by Discipline
Architectural
30
Engineering
20
Interior Designers
5
Other Technical
2
Administrative
9
Total in Firm
65

Gross Construction Volume of Projects
1979 $34,500,000
1980 $31,900,000
1981 (est.) $36,500,000

Work %
Office Buildings
4
Shopping Centers/Retail
2
Industrial
1
Educational
14
Banks/Financial
8
Medical/Health Care
16
Interior Design
9
Solar and/or Earth Sheltered
2
Townhouses/Apartments/
Condominiums
15
Municipal Buildings
15
Restoration/Renovation
10
Prime Engineering
7
Churches/Worship
2

Upper Midwest 100%

Fruhaufl Road Test Facility, Detroit, MI; LaBelles Catalogue Showroom, Paradise Valley, AZ; Olympia Lounge Joe Louis Arena, Detroit, MI; Peavey Co. Offices, Hibbing, MN; Novotel Sharjah Beach, Sharjah, United Arab Emirates; Wolf & Assoc. Office Bldg., Mounds View, MN

Manufacturers contact: Jim Theusch
Clients contact: Michael A. Fowler or Thomas Zumwalde

FREERKS-SPERL-FLYNN ARCHITECTS
2575 W. Seventh Street
St. Paul, MN 55116
612/880-2431
Established 1958
Eugene L. Freerks
Robert H. Sperl
Eugene G. Flynn

Gross Construction Volume of Projects
1979 $18,341,000
1980 $16,683,000
1981 (est.) $15,911,000

Firm Personnel by Discipline
Architectural
6
Interior Designers
1
Administrative
1
Total in Firm
8

Office Buildings
15
Townhouses/Apartments/
Condominiums
16
Shopping Centers/Retail
2
Restaurants
5
Industrial
1
Educational
1
Medical/Health Care
8
Interior Design
1
Churches/Worship
20
Municipal Buildings
9
Restoration/Renovation
7
Planning
5

Upper Midwest 100%

Church of St. Patrick of Edina, Minneapolis, MN; YYCA Urban Center, Hayden Heights Branch Library, St. Paul; Church of Nativity of Mary, Bloomington, MN; State Bureau of Criminal Apprehension Laboratories, St. Paul; University of Minnesota, College of Veterinary Medicine Hospital, St. Paul

Manufacturers contact: Eugene G. Flynn
Clients contact: Eugene L. Freerks, Robert H. Sperl

ALFRED FRENCH & ASSOCIATES INC.
314 Clifton Ave.
Minneapolis, MN 55403
612/871-3650
Established 1977
Alfred W. French III
Garth C. Rockcastle

Firm Personnel by Discipline
Architectural
4
Engineering
5
Other Technical
4
Administrative
1
Other General
1
Total in Firm
15
Public Safety Bldg., Iowa City, IA. Public Works Office Building Addition and Remodeling, St. Paul, MN

Manufacturers contact: Glenn E. Gauger
Clients contact: Willard Parrish or Glenn Gauger

GENESIS ARCHITECTURE
417 W. Litchfield Ave.
Willmar, MN 56201
612/235-8663
Established 1971

Philip B. Anderson
James M. Sprague

Gross Construction Volume of Projects
1979 $3 million
1980 $4 million
1981 (est) $5,000,000

Firm Personnel by Discipline
Architectural 3
Other General 1
Total in Firm 4

Work %
Office Buildings 10
Educational 10
Medical/Health Care 5
Solar and/or Earth Sheltered 10
Apartments/Condominiums, Townhouses 20
Municipal Buildings 20
Churches/Worship 10

Upper Midwest 100%

Grant Co. Library, Milbank, S.D.; Willmar Area Vo-Tech, Classroom Addition; Willmar Senior High School Addition; Project Turnabout, Granite Falls, MN; Federal Land Bank addition,

Appleton, MN; Richard Eakes Earth Flame, New Condon, MN.

Manufacturers contact: Philip B. Anderson or James Sprague
Clients contact: Philip B. Anderson

GLEESON ARCHITECTS
237 E. Sixth St.
St. Paul, MN 55101
612/221-1940
Established 1977

Daniel Gleeson

AIA 1980 $3,000,000
AIA 1981 (est) 1,500,000

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Office Buildings 50
Banks/Financial 20
Architect Designed Homes 10
Restoration/Renovation 5
Planning 5
Landscape Architecture 5

Upper Midwest: 97% International: Ireland, England 3%

Scanlan International Inc.; Marquette Bank, Fridley; HUD Renovation, St. Paul; Renderings for Oxford Company; Rendering for Baker Assoc.; House in Hudson, Wisconsin

Manufacturers contact: Dan Gleeson

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GRAFFUNDER ASSOCIATES INC.
221-1st Natl. Bank Bldg.
Wayzata, MN 55391
612/473-6727
Established 1948

Carl Graffunder

Gross Construction Volume of Projects
1979 $1 million
1980 $1,200,000

Firm Personnel by Discipline
Architectural 3
Total in Firm 3

Work %
Office Buildings 20
Educational 10
Solar and/or Earth Sheltered 10
Architect Designed Homes 20
Townhouses 30
Churches/Worship 10

Upper Midwest 90% Other U.S. 10%

Holybrook Town Houses, Wayzata; Office Building Renovation, 1201 Harmon Pk., Minneapolis; Dental Clinic, Fairmont, MN, St. Heating; Newspaper Office Renovation, Redwood Falls, MN; Residence, Napa Valley, CA; Christ Church, Episcopal, Woodbury, MN

Manufacturers contact: Carl Graffunder
Clients contact: Carl Graffunder
### Enlee/Reese Associates, Ltd.

**Building-type breakdown by work percentage:**
- Office Buildings: 10%
- Shopping Centers/Retail: 10%
- Industrial: 15%
- Architectural: 5%
- Rendering: 5%
- Interior Design: 5%
- Solar and/or Earth Sheltered: 5%
- Architect Designed Homes: 5%
- Condominiums: 15%
- Municipal Buildings: 5%
- Planning: 5%
- Prime Engineering: 10%
- Landscape Architecture: 5%
- Upper Midwest 70% Other U.S. 30%

**Construction Volume of Projects:**
- Total in Firm: 18
- Architectural: 14
- Technical: 1
- General: 2
- Personnel by Discipline: 1
- Administrators: 10
- Condominiums: 3
- Townhouses/Apartments: 2
- Total in Firm: 11

**Work Percentage:**
- Upper Midwest: 60% Other U.S.: 40%
- Minneapolis Area Vocational Technical Institute, Minneapolis, MN: 25%
- Boise Cascade Manufacturing Plant, Milford, CT: 20%
- Smith, AR: 20%
- American International Manufacturing Plant, Smith, AR: 15%
- Weyerhaeuser Manufacturing Plant, Flying Cloud Drive, Hopkins, MN: 15%
- Greenlee

**Manufacturers contact:**
- Dennis Grebner
- Frank Reese

**Clients contact:**
- Frank Reese
- Richard M. Greenlee

**Grange and Rauma, Architects, Inc.**

**Construction Volume of Projects:**
- Total in Firm: 4
- Architectural: 2
- Engineering: 2
- Firm Personnel by Discipline: 1

**Work Percentage:**
- Upper Midwest: 96% Other U.S.: 4%
- Pipestone Federal Savings & Loan Assn., Marshall, MN: 25%
- First Bank Mineota, Marshall, MN: 20%
- Detached Fac., Marshall, MN: 15%
- Courthouse Renovation Work for Watonwan Co., St. James, MN: 10%
- New Building Facilities for Watonwan Co., Marshall, MN: 5%
- Law Enforcement County Extension Addition, St. James, MN: 5%
- Outdoor Athletic Complex, Marshall High School, Marshall, MN: 5%
- Remodeling/Renovation Work for the Municipal On-Off Sale Liquor Store, Canby, MN: 5%

**Manufacturers Contact:**
- Thomas J. Osterberg
- Ronald D. Halgerson

** Clients Contact:**
- Ronald D. Halgerson
- Thomas J. Osterberg
DELBERT J. HALL ARCHITECT
2021 Hennepin Ave. E.
Suite 189
Minneapolis, MN 55413
612/331-1941
Established 1976

Delbert J. Hall
AIA

Gross Construction Volume of Projects
1979 $1,400,000
1980 $1,800,000
1981 (est.) $4,000,000

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Office Buildings 10
Shopping Centers/Retail 10
Restaurants 20

Townhouses/Apartments/Condominiums 10

Upper Midwest 100%

McDonald's, Towne Square, St. Paul, MN; Pocket Pie, Towne Square, St. Paul, MN; I.P.S. Office, New Hope, MN; Maplewood Commercial Center, Maplewood, MN

Manufacturers contact: Delbert J. Hall
Clients contact: Delbert J. Hall

HAMILTON GREEN AND ABRAHAMSON, INC.
ARCHITECTS/ENGINEERS
2675 University Ave
St. Paul, MN 55114
612/646-7501

Established 1953

Bruce Abrahamson
Perry Bolin
Elton Burow
Rod Erickson
Curtis Green
Richard Hammel
John Anderson

Gross Construction Volume of Projects
1979 $47 million
1980 $54 million

Firm Personnel by Discipline
Architectural 70
Engineering 31
Landscape Architects 1
Interior Designers 3
Other Technical 6
Other General 7
Administrative 21
Total in Firm 139

Work %
Commercial/Industrial Projects (includes Arts) 5
Education 17
Medical/Health Care 17
Solar and/or Earth Sheltered 10
Restoration/Remodel 15
Churches/Worship 8
Planning 7
Landscape Architecture 3
Prime Engineering 10
Municipal Buildings 11
Architect Designed Homes 4
Interior Design 5

Townhouses/Apartments/Condominiums B
Upper Midwest 85–90% Other U.S. 10–15%

Science Museum of Minnesota, MSAIA Honor Award; Honeywell Office Addition, MSAIA Honor Award; St. Mary's Hospital Surgical Expansion; Pillsbury Company Interior Architecture; Colonial Church of Edina; AIA Award; Donaldson Research Laboratories, Bloomington, MN; Northwest Crossing, St. Paul, MN; Colonial Church of Edina, Edina, MN, AIA Award

Manufacturers contact: Rod Erickson
Clients contact: Perry Bolin

RICHARD HANDFORD & ASSOCIATES, LTD.
323 Liberty Bank Bldg.
St. Paul, MN 55104
612/646-4253

Established 1976

Richard W. Handford
AIA

Gross Construction Volume of Projects
1979 $2,500,000
1980 $3,000,000
1981 (est.) $3,500,000

Firm Personnel by Discipline
Architectural 2
Interior Designers 1
Administrative 2
Total in Firm 5

Work %
Office Buildings 5
Banks/Financial 90
Interior Design 5

Upper Midwest 100%

Sprague National Bank, Caledonia, MN

Manufacturers contact: Richard Handford
Clients contact: Richard Handford

LOWELL HANSON ARCHITECT
P.O. Box 187
Spring Valley, WI 54767
715/778-5685
Established 1978

Lowell Hanson
AIA

Gross Construction Volume of Projects
1979 $1 million
1980 $2 million
1981 (est.) $3.5 million

Firm Personnel by Discipline
Architectural 6
Administrative 1
Total in Firm 7

Work %
Office Buildings 5
Shooping Centers/Retail 5
Industrial 50
Banks/Financial 5
Medical Health Care 3
Interior Design 2
Solar and/or Earth Sheltered 2
Architect Designed Homes 1
Townhouses/Apartments/Condominiums 8
Municipal Buildings 15
Restoration/Remodel 5
Churches/Worship 5

Upper Midwest 100%

ITT Meyer Industries Test Facility; Donaldson Industrial Plant; Derrick Townhouses; Federal Land Bank Office; Knights of Columbus Commercial; Winchester Lumber Commercial

Manufacturers contact: John Erickson
Clients contact: Lowell Hanson

ROBERT D. HANSON & ASSOCIATES, ARCHITECTS
Suite 226, 7515 Wayzata Blvd.
Minneapolis, MN 55426
612/544-4122

Established 1973

Robert D. Hanson

Gross Construction Volume of Projects
1979 $2.2 million
1980 $2 million
1981 (est.) $1 million

Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Office Buildings 15
Shooping Centers/Retail 15
Industrial 10
Educational 10
Banks/Financial 10
Medical Health Care 40

Upper Midwest 100%

Washington Nursing Home, Willmar, MN; Addition to Luther Haven Nursing Home, Montevideo, MN; Remodeling at Cambridge State Hospital, Cambridge, MN; Montevideo, MN; Doctors Clinic, Swift County; Benson Hospital, Benson, MN

Manufacturers contact: Robert D. Hanson
Clients contact: Robert D. Hanson

HENDRIX/SNYDER ARCHITECTS, INC.
670 Sexton Building
Minneapolis, MN 55415
612/339-7966

Established 1948

Thomas B. Hendrix
William V. Snyder

Gross Construction Volume of Projects
1979 $1 million
1980 $5 million
1981 (est.) $3.5 million

Firm Personnel by Discipline
Architectural 6
Administrative 1
Total in Firm 7

Work %
Education 100%

Upper Midwest 100%

Milton A. Salk School, Elk River, MN; Elk River Senior High School, Elk River, MN; E. R. Vanderberge School, Elk River, MN; Farmington Senior High School, Farmington, MN; Parker Elementary School, Elk River, MN; Aitkin Jr-Sr High School, Aitkin, MN

Manufacturers contact: William Snyder
Clients contact: T. Hendrix or W. Snyder
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6311 Wayzata Blvd.
Minneapolis, MN 55416
612/545-5676
Established 1941
76 S. 11th Street
Minneapolis, MN 55403
612/375-0495
200 Young Ave.
Cocoa Beach, FL 32931
305/783-8729

Victor C. Gilbertson
Leslie E. Formell
James I. Lammers

Gross Construction Volume of Projects
1979 $15 million
1980 $20 million
1981 (est.) $25 million

Firm Personnel by Discipline
Architectural 8
Interior Designers 1
Administrative 3
Total in Firm 12

Office Buildings 5
Shopping Centers/Retail 5
Restaurants 2
Industrial 5
Educational 15
Banks/Financial 2
Medical/Health Care 40
Interior Design 5
Solar and/or Earth Sheltered 5
Apartments/Condominiums 10
Townhouses 5
Renovation 10
Planning 2
Churches/Worship 15

Upper Midwest 70% Other U.S. 30%

HORAN ASSOC.
Box 27
Navarre, MN 55932
612/471-9305

James Horan

Gross Construction Volume of Projects
1979 $1.2 million
1980 $2.5 million
1981 (est.) $3.7 million

Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 5

Office Buildings 15
Townhouses/Apartments/Condominiums 7
Industrial 10
Educational 10
Banks/Financial 10
Medical/Health Care 10
Interior Design 1
Solar and/or Earth Sheltered 3
Churches/Worship 10
Municipal Buildings 10
Restoration/Renovation 5
Planning 10
Renderings 1
Landscape Architecture 1
Recreational 10

Upper Midwest 100%

HISTORY, RADLOFF, THORPE ARCHITECTS INC.
505 E. Grant Street
Minneapolis, MN 55404
612/335-5656
Established 1955

Thomas Hory
Carl D. Elving
Arnold Berg
Leo Monster
Russell N. Johnson
James C. Elving

Gross Construction Volume of Projects
1979 $10 million
1980 $11 million
1981 (est.) $12 million

Firm Personnel by Discipline
Architectural 9
Engineering 9
Interior Designers 2
Other Technical 1
Administrative 2
Total in Firm 23

Office Buildings 5
Medical/Health Care 75
Planning 5
Townhouses/Apartments/Condominiums 10

Upper Midwest 85% Other U.S. 15%

McKnight Ganimatic Care Center for the Presbytery Home, Arden Hills, MN; Park Plaza Congregate Housing for the Eumenizer Society, Minneapolis, MN; Holy Family Hospital, New Richmond, WI; Buffalo Memorial Hospital, Buffalo, MN; Covenant Manor for Colonial A Home, Golden Valley, MN; St. Luke's Medical Office Building, Duluth, MN.

Manufacturers contact: Leo Monster—architectural, Carl D. Elving—mechanical, Charles Radloff—electrical
Clients contact: Thomas Hory or Carl D. Elving

HISTORY, RADLOFF, THORPE ARCHITECTS INC.
206 Wesley Temple Bldg.
Minneapolis, MN 55403
612/870-7873
Established 1979

Truman Howard
Scott Thorpe
Charles Radloff

Gross Construction Volume of Projects
1979 $2,500,000
1980 $4,600,000
1981 (est.) $6 million

Firm Personnel by Discipline
Architectural 5
Other Technical 1
Administrative 1
Total in Firm 7

Office Buildings 15
Medical/Health Care 20
Industrial 15
Solar and/or Earth Sheltered 40
Interior Design 5
Architect Designed Homes 45

Upper Midwest 95% Other U.S. 5%
J

JAFVERT, MUELLER AND ASSOCIATES, INC.
6700 France Ave.
Edina, MN 55435
612/928-7677
Established 1972
Lloyd R. Jafvert
Steven P. Mueller

Firm Personnel by Discipline
Architectural 2
Interior Designers 1
Other General ½
Total in Firm 3½

Work %
Office Buildings 12
Shopping Centers/Retail 8
Restaurants 5
Industrial 10
Educational 5
Medical/Health Care 5
Interior Design 15
Solar and/or Earth Sheltered 5
Architect Designed Homes 5
Townhouses/Apartments/Condominiums 10
Municipal Buildings 3
Restoration/Renovation 7

Upper Midwest 100%

Minnesota Zoo, 1978 MSAIA Honor Award; Augsburg Park Public Library, 1976 MSAIA Award; S. St. Paul Community Center, 1977 MSLA Award; St. Cloud Public Library; Minneapolis Parkway System, 1974 MSLA Award; Thorbeck Gazebo; Vinland Nat'l. Center

Manufacturers contact: Shashi Suri
Clients contact: Duane Thorbeck or Robert Lambert

Firm Personnel by Discipline
Architectural 5
Landscape Architects 3
Other Technical 1
Other General 2
Total in Firm 12

Work %
Educational 10
Banks/Financial 10
Medical/Health Care 10
Interior Design/Graphic Design 10
Solar and/or Earth Sheltered 10
Townhouses/Apartments/Condominiums 10
Municipal Buildings 10
Restoration/Renovation 10
Landscape Architecture 10
Other 10

Upper Midwest 90% Other U.S. 10%

Lucker Residence, Hager City, WI; Southeast Fire Station, Golden Valley; Clairmont Residence, Bismarck, ND; Delegard Tool,
JOHNSON, SHELDON & SORENSEN
ARCHITECTS INC.
5407 Excelsior Blvd.
Minneapolis, MN 55416
612-920-6956
Established 1972

Roger F. Johnson
Alvin D. Sheldon
Carlyle A. Sorensen

Gross Construction Volume of Projects
1979 $12 million
1980 $14 million
1981 (est.) $16 million

Firm Personnel by Discipline
Architectural 7
Administrative 1
Other General 1
Total in Firm 9

Work %

Office Buildings 10
Industrial 10
Educational 10
Restaurants 10
Medical/Health Care 10
Interior Design 5
Shopping Centers/Condominiums 15
Architect Designed Homes 5

Upper Midwest 100%

37 Unit MHFA Family Hsg., Dodge Center, MN
Add'n. to Northwest Bank, Montevideo, MN
Federal Land Bank, Willmar, MN; St. Albert Parish Center, Albertville, MN; Crosby-Ironton High School Shop Add'n., Crosby, MN
Bethlehem Lutheran Church, Lakeville, MN

Manufacturers contact: Any Principal
Clients contact: Any Principal

Manufacturers contact: Dennis Anderson
Clients contact: Zack Johnson

K

KEGEL ASSOCIATES ARCHITECTS
1050 Lake Ave.
Detroit Lakes, MN 56501
218-847-9876
Established 1981

Fred W. Kegel, Jr.

Gross Construction Volume of Projects
1979 $5 million
1980 $3 million

Firm Personnel by Discipline
Architectural 4
Administrative 2
Total in Firm 6

Work %

Industrial 5
Educational 5
Medical/Health Care 80
Municipal Buildings 5
Restoration/Renovation 5

Upper Midwest 90% Other U.S. 10%

Community College, Fergus Falls; Comm Hospital (PHS), Red Lake; Schools, Detroit Lakes; Fairmaid Nursing Home, Fertile; Hockey Arena, Red Lake; Rainbow Country Fishery, Sault Ste. Marie

Manufacturers contact: Richard E. Duffney
Clients contact: Fred W. Kegel, Jr.

KEISER ARCHITECTURE CORPORATION
Fergus Falls, MN 56537
218-739-2396

Roger J. Keiser

Manufacturers contact: Roger J. Keiser
Clients contact: Roger J. Keiser

KEISER ARCHITECTURE CORPORATION
Fergus Falls, MN 56537
507/376-6419

Roger J. Keiser

Manufacturers contact: Roger J. Keiser
Clients contact: Roger J. Keiser

Brooklyn Law Center; Remodeling of Lake Harriet Baptist Church; Joy Evangelical Free Church; Safeway Bus Co.; Remodeling of Colony Park Baptist Church

Manufacturers contact: Phillip D. Johnson
Clients contact: Phillip D. Johnson

Manufacturers contact: Phillip D. Johnson
Clients contact: Phillip D. Johnson

JOHNSON/HALVERSON/ANDERSON/ARCHITECTS P.A.
117 N. Washington St.
Grand Forks, ND 58201
701-772-7205
Established 1980 (Predecessor 1947)

Gary W. Johnson
Jon C. Halverson
Kent R. Anderson

Gross Construction Volume of Projects
1979 $4,000,000
1980 $3,500,000
1981 (est.) $4,000,000

Firm Personnel by Discipline
Architectural 5
Administrative 1
Total in Firm 6

Office Buildings 20
Townhouses/Apartments/Condominiums 20
Shopping Centers/Retail 10
Restaurants 5
Industrial 5
Educational 20
Banks/Financial 5
Interior Design 5
Churches/Worship 10

Upper Midwest 100%

Starcher Hall, University of North Dakota; Senior High School, Grafton, ND; Wilson Laird Core & Sample Library, University of North Dakota

Manufacturers contact: Any Principal
Clients contact: Any Principal

Manufacturers contact: Any Principal
Clients contact: Any Principal

PHILLIP D. JOHNSON ARCHITECT
5637 Brooklyn Blvd.
Minneapolis, MN 55430
612/533-4235
Established 1978

Philip D. Johnson

Gross Construction Volume of Projects
1979 $800,000
1980 $1.0 million
1981 (est.) $1,300,000

Firm Personnel by Discipline
Architectural 2
Other General 1
Total in Firm 3

Office Buildings 20
Interior Design 15
Architect Designed Homes 15
Townhouses/Apartments/Condominiums 5
Churches/Worship 30
Industrial 10
Solar and/or Earth Sheltered 5

Upper Midwest 100%

Brooklyn Law Center; Remodeling of Lake Harriet Baptist Church; Joy Evangelical Free Church; Safeway Bus Co.; Remodeling of Colony Park Baptist Church

Manufacturers contact: Phillip D. Johnson
Clients contact: Phillip D. Johnson

Manufacturers contact: Phillip D. Johnson
Clients contact: Phillip D. Johnson

ZACK JOHNSON & ASSOCIATES, INC.
1398 Albany Ave.
St. Paul, MN 55108
612-648-8046
Established 1979

Zack Johnson
Jerry Messman

Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4
Total AIA or MSAIA Members 1

Office Buildings 10
Townhouses/Apartments/Condominiums 10
Shopping Centers/Condominiums 15
Restaurants 5
Industrial 10
Banks/Financial 5
Interior Design 5
Solar and/or Earth Sheltered 10
Architect Designed Homes 5

Upper Midwest 95% Other U.S. 5%

Assisted Housing, Excelsior, MN; Elk River Shopping Center, St. Francis, MN; South Shore Assisted Housing, Excelsior, MN; Elk River Downtown Redevelopment, Elk River, MN; Barrington Place PUD, Elk River, MN; Chicago Co. Senior Center, North Branch, MN

Manufacturers contact: Any Principal
Clients contact: Zack Johnson

Manufacturers contact: Any Principal
Clients contact: Zack Johnson

Manufacturers contact: Any Principal
Clients contact: Zack Johnson

KEISER ARCHITECTURE CORPORATION
Fergus Falls, MN 56537
218-739-2396

Roger J. Keiser

Manufacturers contact: Roger J. Keiser
Clients contact: Roger J. Keiser

Manufacturers contact: Roger J. Keiser
Clients contact: Roger J. Keiser

JOHNSON/HALVERSON/ANDERSON/ARCHITECTS P.A.
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Crystal, Opal, Clear, Solar Smoke, HID Lighting with or without prismatic refractors
Irongate Mall, Hibbing, MN; Nortronics Company Inc., Golden Valley, MN; Fire Station, City of Maple Plain, MN; Dataserv Equipment, Inc., Hopkins, MN, Mn. Valley Medical Office, Shakopee, MN; Molecular Genetics, Inc., Eden, MN

Manufacturers contact: James Klapste
Clients contact: Howard Goltz

CLETUS G. KLEIN & ASSOCIATES
7711 Country Club Dr.
Minneapolis, MN 55427
612/546-1116
Established 1970

Cletus G. Klein

Gross Construction Volume of Projects
1979 $3.2 million
1980 $4.5 million
1981 (est.) $4.0 million

Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3

Office Buildings 40
Industrial 20
Solar and/or Earth Sheltered 5
Medical/Health Care 10
Architect Designed Homes 5
Churches/Worship 20

Upper Midwest 100%

Manufacturers contact: Cletus G. Klein
Clients contact: Cletus G. Klein

GEORGE KLEIN & CO. ARCHITECTS
18340 Minnetonka Blvd.
Deephaven, MN 55391
612/473-1505
Established 1974

George Klein
Clifford Buikema
Richard McCarthy
Helen Klein

Gross Construction Volume of Projects
1979 $3.5 million
1980 $4.5 million
1981 (est.) $5.0 million

Firm Personnel by Discipline
Architectural 6
Administrative 1
Interior Designers 1
Total in Firm 8

Office Buildings 20
Industrial 20
Solar and/or Earth Sheltered 5
Architect Designed Homes 15
Townhouses/Apartments/Condominiums 10
Municipal Buildings 15
Planning 5
Restoration/Remodeling 5

Upper Midwest 100%

The Pillsburg World Headquarters, Interior Design Joint Venture: Shedd Brown Corporate Headquarters, Joint Venture; Metroquip Office and Retail/Service Center; Restoration and Remodeling of Lafayette Club; Meadowbrook Press Office Bldg.; Wayzata Bay Ctr. Tenant Warehouse Bldg.; Hennipco Co. Work/Study Release Residence, Adult Corrections Facility, Plymouth, MN

Manufacturers contact: Cliff Buikema
Clients contact: George Klein

BRUCE KNUTSON ARCHITECTS INC.
123 E. Grant St.
Minneapolis, MN 55403
612/874-7050
Established 1974

Bruce Knutson

Gross Construction Volume of Projects
1979 $6.2 million
1980 $10.2 million
1981 (est.) $15.5 million

Firm Personnel by Discipline
Architectural 5
Landscape Architects 2
Interior Designers 5
Administrative 1
Total in Firm 13

Work %

Office Buildings 15
Restaurants 15
Interior Design 20
Townhouses/Apartments/Condominiums 50

Upper Midwest 80% Other U.S. 15%
International 5%

Isles Condominiums, 56 Units; Minnesota Rubber Corporate Office Building; Cedar Isles Townhouses; David Nitz, Custom Residence; Sunset Beach & Tennis Club, Tampa, FL

Manufacturers contact: Dale Tremain
Clients contact: Bruce Knutson

KORNGIEBEL ARCHITECTS
P.O. Box 49
Hutchinson, MN 55350
612/679-4101
612/587-2483
Established 1969

John W. Korngiebel

Gross Construction Volume of Projects
1979 $3 million
1980 $3 million
1981 (est.) $5 million

Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

Work %

Office Buildings 6
Restaurants 2
Industrial 10
Apartments/Condominiums 60
Educational 6
Municipal Buildings 13
Churches/Worship 5

Upper Midwest 100%

Hutchinson Industrial Corp. Plant & Offices; Howard Lake Community Bldg. & Library; McLeod County Social Service Bldg.; McLeod County Developable Achievement Center; Peoples State Bank, Comfrey, Paynesville Elderly Housing

Manufacturers contact: John Korngiebel

KORSUNSKY KRANK ERICKSON ARCHITECTS, INC.
570 Galaxy Bldg.
330 2nd Ave. So.
Minneapolis, MN 55401
612/339-4200
Established 1968

Y. A. Korsunsky
Ronald Krank
Ronald C. Erickson
Michael D. Wirtanen
Richard J. Haluptzok
David W. Broesder
Daryl P. Fortier
Stephen J. Lanak

Gross Construction Volume of Projects
1979 $57 million
1980 $30 million
1981 (est.) $64 million

Firm Personnel by Discipline
Architectural 23
Interior Designers 2
Administrative 5
Other General 1
Total in Firm 31

Work %

Office Buildings 10
Shopping Centers/Retail 10
Restaurants 4
Industrial 15
Bank/Financial 8
Medical/Health Care 4
Interior Design 2
Solar and/or Earth Sheltered 2
Townhouses/Apartments/Condominiums 16
Municipal Buildings 2
Restoration/Remodeling 6
Planning 3
Other 1

Upper Midwest 80% Other U.S. 20%

Galaxy Office Building; Point of Flame Condominiums; Northwestern State Bank of Jordan; Woodbury Office Target Stores; Humphrey Estate, Waverly, MN; Ichi-Ban Japanese Restaurant, Mpls.; Contemporary Designs, Inc.; Elk River Congregate Apts.

Manufacturers contact: Doug Lingren
Clients contact: Ronald Krank, Y. A. Korsunsky
Ronald C. Erickson

TERRY JOHN LAMB, ARCHITECT
1782 Laurel Avenue
St. Paul, MN 55104
612/646-5320
Established 1979

Terry John Lamb

Gross Construction Volume of Projects
1979 $35,000
1980 $355,000
1981 (est.) $500,000

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %

Office Buildings 10
Townhouses/Apartments/Condominiums 10
Shopping Centers/Retail 15
Industrial 10
Interior Design 5
Weatherliner... COMMERCIAL REPLACEMENT WINDOW

AT LAST, THE MIDWEST'S PREFERRED PRIME WINDOW IS AVAILABLE FOR COMMERCIAL REPLACEMENT PROJECTS!

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THE GERKIN COMPANY
1501 Zenith Drive • Sioux City, Iowa 51103
Phone 712-255-5061

COMPLETE DATA & LITERATURE AVAILABLE ON REQUEST
Planning 10
Restoration/ Renovation 20
Upper Midwest 100%
Panama Flats Condominiums; Mackubin Row
Townhouses; Scannon International Office "Pro
Affiliation"; Delina Condominiums, St. Paul;
Marquette Bank, Fridley
Manufacturers contact: Len Lilyholm or Dan
Gleeson
Clients contact: Len Lilyholm or Dan Gleeson

GLEN L. LINDBERG ARCHITECTS
1422 W. Lake Street
Minneapolis, MN 55408
612/822-9300
Established 1973
Glen L. Lindberg
AIA

Gross Construction Volume of Projects
1979 $3.5 million
1980 $4.0 million

Firm Personnel by Discipline
Architectural 3
Total in Firm 3

Work %
Office Buildings 10
Libraries 20
Industrial 15
Interior Design 5
Townhouses/Apartments/
Condominiums 10
 Restoration/Renovation 25
Churches/Worship 15

Upper Midwest 100%
Manufacturers contact: William L. Miller or
Randy D. Moon
Clients contact: Glen L. Lindberg

LINDBERG PIERCE, INC.
512 Nicollet Mall Bldg.
Suite 512
Minneapolis, MN 55402
612/332-3339
Established 1973
James H. Lindberg
AIA
Robert L. Pierce
AIA

Gross Construction Volume of Projects
1979 $7 million
1980 $4 million
1981 (est.) $4 million

Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

Work %
Office Buildings 10
Restaurants 5
Townhouses/Apartments/
Condominiums 5
Banks/Financial 5
Municipal Buildings 50
 Restoration/Renovation 10
Planning 5
Churches/Worship 10

Upper Midwest 100%
Webber Park Community Library; 3M Company
Parking Ramp; 3M Company Skyway Bridges
(3); Victoria State Bank; Franklin Community
Library Remodeling; Resurrection Lutheran
Church, Roseville, MN; Valley Baptist Church,
Golden Valley, MN
Manufacturers contact: James Lindberg or
Robert L. Pierce
Clients contact: Jim Lindberg or Bob Pierce

JACK LINDEMAN—SPECIFICATIONS
CONSULTANT
5000 First Ave. S.
Minneapolis, MN 55419
612/824-8822
Established 1975
Jack Lindeman
AIA

Work %
Commercial/Office/Retail 15
Housing 15
Educational 20
Medical 5
Other Institutional 5
Other 40

Minnesota 80% Other U.S. 20%
Manufacturers contact: Jack Lindeman
Clients contact: Jack Lindeman

LUNDAHL ARCHITECTS
5509 Eden Prairie Rd.
Minnetonka, MN 55343
612/933-3011
Established 1971
Richard L. Lundahl
AIA

Gross Construction Volume of Projects
1979 $2.5 million
1980 $1.5 million
1981 (est.) $2.0 million

Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3

Work %
Office Buildings 10
Industrial 5
Banks/Financial 5
Architect Designed Homes 5
Churches/Worship 70
Restoration/Renovation 5

Upper Midwest 95% Other U.S. 5%
St. Hubert's Catholic Church; Edina Baptist
Church 1974; Edina Baptist 1978; Pheoll Manufacturing
of South Dakota; Eden Prairie Assembly of
God—Phase I
Manufacturers contact: Richard L. Lundahl
Clients contact: Richard L. Lundahl

THE LUNDGREN ASSOCIATES INC.
1140 Minnesota Bldg.
St. Paul, MN 55101
612/224-2475
Established 1949
Louis R. Lundgren
FAIA
George A. Johnson
AIA
June S. Lundgren
PE
Thomas M. Thompson
Assoc. AIA
Cherry Lundgren
Frank Fake, Jr.
AIA

Work %
Office Buildings 15
Shopping Centers/Retail 10
Industrial 5
Educational 5
Interior Design 5
Solar and/or Earth Sheltered 3
Architect Designed Homes 1
Churches/Worship 10
Restoration/Renovation 10
Planning 10
Townhouses/Apartments/
Condominiums 25
Restaurants 4
Banks/Financial 5

Upper Midwest 50% Other U.S. 50%
Kellogg Square; First National Bank of St. Paul;
Como Senior High School; Lake Crystal
Towers; Maplewood Gardens; Aerial Port
Training Facility; Horizon Heights; Prairie
Estates; Hyde & Tanner Fine Leather Goods

Clients contact: Louis R. Lundgren

MacDONALD AND MACK PARTNERSHIP
750 Grain Exchange Bldg.
Minneapolis, MN 55415
612/341-4051
Established 1977
Stuart E. MacDonald
Robert C. Mack

1979 $230,000
1980 $850,000
1981 (est.) $900,000

Firm Personnel by Discipline
Architectural 3
Other General 1
Total in Firm 4

Work %
Restoration/Renovation 75
Historical and Architectural Research 25
Upper Midwest 50% Other U.S. 50%

Manufacturers contact: Stuart MacDonald or
Robert Mack
Clients contact: Stuart MacDonald or Robert Mack

THE MADSEN ASSOC. ARCHITECTS
P.O. Box 345
Battle Lake, MN 56515
218/864-5400
Established 1971
Emil M. Madsen

Gross Construction Volume of Projects
1979 $1.4 million
1980 $3.7 million
1981 (est.) $2.4 million

Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

Work %
Office Buildings 1
Townhouses/Apartments/
Condominiums 65
Shopping Centers/Retail 2
Industrial 7
Educational 3
Banks/Financial 4
Medical/Health Care 11
Architect Designed Homes 3
Churches/Worship 8
Municipal Buildings 3

Upper Midwest 100%

70 Architecture Minnesota/Feb. 1981
Upper Nursing Home 46-bed addition, Fergus MN; Todd Twenty-Seven, Townhouses, Prairie, MN; Forty Unit Senior Citizen ing, Grant County, MN; School Addition, wood, MN; Greenwood 48 Townhouses, na, MN; Mid-America Processing Plant, a, Falls, MN

Manufacturers contact: Emil M. Madsen

OCH-WIRTH ARCHITECTURE & TRATION CO.
W. Lake, Room 204
aples, MN 55408
22-7676

Skyline Blvd.
ient Pines, CA
ishes 1978

ian Malloch

Personnel by Discipline
Architectural 1
ner 1
in Firm 2

Work %
Buildings 10
Design 10
Earth Sheltered 10
ct Designed Homes 50
ation/Renderings 20

Upper Midwest 30% Other U.S. 70%
Silverado Mountain Ranch, Napa, CA; Estate Residence, 1990 Woodside, CA; Timber Inn, Phillips, WI; Earth Barn House, Energy Efficient, Corcoran, MN; Reconstruction of 2 Bldgs., Cable, WI; Ink Drawing for the Restoration of The Masonic Temple Bldg. for Svedberg, Vermont Architects

Manufacturers contact: Duncan Malloch
Clients contact: Duncan Malloch

MASTNY ASSOCIATES, ARCHITECTS
61 Brown Rd. S.
ong Lake, MN 55356
612/476-0276

George G. Mastny

Gross Construction Volume of Projects
1979 $4 million
1980 $1.5 million
1981 (est.) $2 million

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Office Buildings 5
Shopping Centers/Retail 70
Industrial 20
Architect Designed Homes 5

Upper Midwest 100%
Gateway Mall, Bismarck, ND; Swanson Residence, Minnetonka, MN; Faribo West Mall, Faribault, MN; Red Owl Stores, MN, WI, MI; Thomas Engineering Office & Mfg., Brooklyn Park

Manufacturers contact: George G. Mastny
Clients contact: George G. Mastny

MATSON, WEGLEITNER, ABENDROTH
ARCHITECTS
5217 Wayzata Blvd.
N. Plaza Bldg.
neapolis, MN 55416
612/544-8941

Al Wegleitner

AIA
Urban Abendroth

AIA

Firm Personnel by Discipline
Architectural 4
Engineering 1
Interior Designers 1
Other Technical 3
Administrative 2
Other General 2
Total in Firm 13

Work %
Office Buildings 5
Industrial 5
Educational 85
Interior Design 5

Minnesota 100%
Manufacturers contact: Mr. Branscow or E. A. Johnson
Clients contact: Wegleitner or Abendroth

Serving the creative fields of architecture, commercial art, fine art, graphic art and screen printing.
MARK McKECHNIE ARCHITECT
314 West Ave.
Red Wing, MN 55066
612-388-6382
Established 1979
Mark R. McKechnie
Gross Construction Volume of Projects
1979 $100,000
1980 $959,000
1981 (est.) $2 million

Firm Personnel by Discipline
Architectural 2
Administrative 1/2
Total in Firm 2 1/2

Upper Midwest 100%

Single Family House, St. Paul; Chalet Square Offices, Red Wing; Earth-Sheltered Residence, Goodhue, MN; The College Apartments, Red Wing; Goodhue Co. Citizens Bldg., Red Wing, MN

Manufacturers contact: Mark McKechnie
Clients contact: Mark McKechnie

JAMES NELSON McKELLIN III ARCHITECT
604 W. Minnehaha Pkwy.
Minneapolis, MN 55419
612-823-5223
Established 1977
James Nelson McKellin III
Gross Construction Volume of Projects
1979 $4.5 million
1980 $5 million
1981 (est.) $5 million

Firm Personnel by Discipline
Architectural 1
Other General 1
Total in Firm 2

Townhouses/Apartments/Condominiums 100

Upper Midwest 100%

32 Unit Elderly Apartment, River Falls, WI; 40 Unit Elderly Apartment, Amery, WI; 32 Unit Elderly Apartment, Cumberland, WI; 48 Units, Elderly & Family Apts., St. Croix County, WI; 48 Units, Low Income Family Housing, Sawyer County, WI; 16 Units, Elderly Housing, Spring Valley, WI

Manufacturers contact: James Nelson McKellin III
Clients contact: James Nelson McKellin III

MELANDER AND MELANDER ARCHITECTS, INC.
800 Lonsdale Bldg.
Duluth, MN 55802
218/727-5044
Established 1963
Donald K. Melander
Gross Construction Volume of Projects
1979 $2.2 million
1980 $1.8 million
1981 (est.) $2 million

Firm Personnel by Discipline
Architectural 3
Administrative 2
Other General 1
Total in Firm 6

Office Buildings 14
Restaurants 2
Educational 2
Banks/Financial 5
Medical/Health Care 5
Architect Designed Homes 3

Upper Midwest 100%

County Court House Remodeling, Carlton, MN; Mid Mesabi Manor, Eveleth, MN; Duluth Water & Gas Department, Duluth, MN; City of Duluth Projects, Duluth, MN; MN Power Service Co., Long Prairie, MN

Manufacturers contact: Gordon R. Metcalf
Clients contact: Gordon R. Metcalf

VAL MICHELSON & ASSOCIATES, INC., ARCHITECTS
1821 University Ave.
Suite N345
St. Paul, MN 55104
612-646-6377
Established 1963
Valerius L. Michelson
Gross Construction Volume of Projects
1979 $4 million
1980 $7.5 million
1981 (est.) $4 million

Firm Personnel by Discipline
Architectural 1
Other General 1
Total in Firm 2

Office Buildings 20
Industrial 30
Architect Designed Homes 20
Municipal Buildings 10
Restoration/Renovation 20

Manufacturers contact: Gordon R. Metcalf
Clients contact: Gordon R. Metcalf
<table>
<thead>
<tr>
<th>Buildings</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trial</td>
<td>10</td>
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<tr>
<td>National</td>
<td>10</td>
</tr>
<tr>
<td>a/Financial</td>
<td>10</td>
</tr>
<tr>
<td>and/or Earth Sheltered</td>
<td>20</td>
</tr>
<tr>
<td>Architect Designed Homes</td>
<td>10</td>
</tr>
<tr>
<td>Restoration/Renovation</td>
<td>20</td>
</tr>
<tr>
<td>Planning</td>
<td>10</td>
</tr>
<tr>
<td>Midwest 90% Other U.S. 5%</td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
</tr>
<tr>
<td>of, St. Cloud University, MN; Itasca Community College, Planning Study, Brainerd, MN; Bailey Hall Dormitory, Univ. of MN, St. Paul, MN; 555 Park Office Bldg., St. Paul, MN; Child Development Ctr. Planning, U of M, Minneapolis, MN; Public Authority Offices Remodeling, St. Paul, MN.</td>
<td></td>
</tr>
<tr>
<td>Manufacturers contact: David Bowers</td>
<td></td>
</tr>
<tr>
<td>a contact: Val Michelson or Craig Sen.</td>
<td></td>
</tr>
</tbody>
</table>

**AM MILBRATH ARCHITECT**

Box 481

St. Cloud, MN 56301

612-251-4109

Established 1951

Jim W. Miller

Galen Kabe

Jeffrey J. Pilling

Steve Ludwig

MN Milbrath

**Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Gross Construction Volume of Projects</th>
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</thead>
<tbody>
<tr>
<td>1979</td>
<td>$11,000,000</td>
</tr>
<tr>
<td>1980</td>
<td>$12,000,000</td>
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<td>1981 (est.)</td>
<td>$13,500,000</td>
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**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Area</th>
<th>Work %</th>
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</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>10</td>
</tr>
<tr>
<td>Interior Design</td>
<td>1</td>
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<tr>
<td>Other</td>
<td>119</td>
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<tr>
<td>Total in Firm</td>
<td>126</td>
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</table>

**Office Buildings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
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<tbody>
<tr>
<td>10</td>
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</table>

**Shopping Centers/Retail**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Restaurants**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
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</tbody>
</table>

**Industrial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
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<tbody>
<tr>
<td>25</td>
</tr>
</tbody>
</table>

**Medical/Health Care**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

**Interior Design**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

**Banks/Financial**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Architect Designed Homes**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
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</table>

**Apartments-Condominiums**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Restoration/Renovation**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Planning**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Churches/Worship**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

**Minnesota 80% Upper Midwest 20%**

**Northwestern Supply; Roosevelt Office Park; Jack's of Minnesota; Oak Garden Apartments, St. Cloud; Vilo Lanes, Brainerd**

**Manufacturers contact: Jeffrey J. Pilling, Steven Ludwig**

**Clients contact: Jeffrey J. Pilling, Steven Ludwig**

**MILLER-DUNWIDDIE-ARCHITECTS, INC.**

7913 Southtown Ctr.

Minneapolis, MN 55431

612/884-8421

Established 1963

Foster W. Dunwiddie

William J. Miller

**Cross Construction Volume of Projects**

<table>
<thead>
<tr>
<th>Year</th>
<th>Gross Construction Volume of Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1979</td>
<td>$5 million</td>
</tr>
<tr>
<td>1980</td>
<td>$5 million</td>
</tr>
</tbody>
</table>

**Firm Personnel by Discipline**

<table>
<thead>
<tr>
<th>Area</th>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
<td>10</td>
</tr>
<tr>
<td>Other Technical</td>
<td>2</td>
</tr>
<tr>
<td>Administrative</td>
<td>1</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>13</td>
</tr>
</tbody>
</table>

**Office Buildings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**Municipal Buildings**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
</tr>
</tbody>
</table>

**Restoration/Renovation**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
</tr>
</tbody>
</table>

**Airport Facilities**

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
</tr>
</tbody>
</table>

**Upper Midwest 90% International 10%**

**Commandant's House & Officers' Quarters Restoration, Fort Snelling, MSAIA Merit Award 1979; Jet Engine Test Facility, British Caledonian Airways, Prestwick, Scotland; Green**

**Manufacturers contact: Jeffrey J. Pilling, Steven Ludwig**

**Clients contact: Jeffrey J. Pilling, Steven Ludwig**

**The First Security State Bank is newly remodeled with the LONG LASTING BEAUTY OF**

**Quarry Tile flooring and Black Slate check desk and ledges.**

**All furnished and installed by**

**Drake Marble Company**

**CERAMIC TILE QUARRY TILE MARBLE SLATE**

**PLATO BLVD. ST. PAUL, MN 55107 PHONE. 222-4759**

**only the professionals merit this seal**

**EACH PDCA CONTRACTOR**

- Employs only skilled journeymen
- Complies with safety regulations
- Is bonded and insured
- Uses best quality materials

**Painting and Decorating Contractors of America**

**MINNESOTA COUNCIL**

**(612) 483-1125**

**PAINTING AND DECORATING CONTRACTORS OF AMERICA 1984**
<table>
<thead>
<tr>
<th>Manufacturers contact: Foster Dunwiddie or William Miller</th>
<th>Clients contact: Foster Dunwiddie or William Miller</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILLER HANSON WESTERBECK BELL ARCHITECTS, INC.</td>
<td></td>
</tr>
<tr>
<td>Suite 300, Butler Square Bldg.</td>
<td></td>
</tr>
<tr>
<td>100 N. Sixth Street</td>
<td></td>
</tr>
<tr>
<td>Minneapolis, MN 55403</td>
<td></td>
</tr>
<tr>
<td>612/338-7700</td>
<td></td>
</tr>
<tr>
<td>Established 1962</td>
<td></td>
</tr>
<tr>
<td>John R. Miller</td>
<td>AIA</td>
</tr>
<tr>
<td>James E. Hanson</td>
<td>AIA</td>
</tr>
<tr>
<td>Larry Westerbeck</td>
<td>AIA</td>
</tr>
<tr>
<td>Edwin M. Bell</td>
<td>AIA</td>
</tr>
<tr>
<td>Wilton J. Berger</td>
<td>Assoc. AIA</td>
</tr>
<tr>
<td>Jay M. Johnson</td>
<td>AIA</td>
</tr>
<tr>
<td>Gross Construction Volume of Projects</td>
<td></td>
</tr>
<tr>
<td>1979</td>
<td>$23.6 million</td>
</tr>
<tr>
<td>1980</td>
<td>$28 million</td>
</tr>
<tr>
<td>1981 (est.)</td>
<td>$32 million</td>
</tr>
<tr>
<td>Firm Personnel by Discipline</td>
<td></td>
</tr>
<tr>
<td>Architectural</td>
<td>21</td>
</tr>
<tr>
<td>Other Technical</td>
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</tr>
<tr>
<td>Administrative</td>
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</tr>
<tr>
<td>Total in Firm</td>
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<tr>
<td>Office Buildings</td>
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<td>Townhouses/Apartments</td>
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<tr>
<td>Condominiums</td>
<td>50</td>
</tr>
<tr>
<td>Municipal Buildings</td>
<td>5</td>
</tr>
<tr>
<td>Restoration/ Renovation</td>
<td>20</td>
</tr>
<tr>
<td>Medical/Health Care</td>
<td>10</td>
</tr>
<tr>
<td>Solar and/or Earth Sheltered</td>
<td>5</td>
</tr>
<tr>
<td>Upper Midwest 100%</td>
<td></td>
</tr>
<tr>
<td>Lake Point Condominiums, Minneapolis; Bemidji City Hall; Regency Condominiums, St. Paul, MN; Hilltop Manor, Housing for Elderly, Eveleth, MN; Central Towers, Housing for Elderly, Rochester, MN; Bremer Town Townhouses, Austin, MN</td>
<td></td>
</tr>
<tr>
<td>Manufacturers contact: James E. Hanson</td>
<td></td>
</tr>
<tr>
<td>Clients contact: Principals</td>
<td></td>
</tr>
<tr>
<td>ELDON MORRISON ARCHITECTS, INC.</td>
<td></td>
</tr>
<tr>
<td>613 Fourth Street</td>
<td></td>
</tr>
<tr>
<td>White Bear Lake, MN 55110</td>
<td></td>
</tr>
<tr>
<td>612/426-3287</td>
<td></td>
</tr>
<tr>
<td>Established 1967</td>
<td></td>
</tr>
<tr>
<td>Eldon D. Morrison</td>
<td>AIA</td>
</tr>
<tr>
<td>William T. Farnan</td>
<td>Assoc. AIA</td>
</tr>
<tr>
<td>Dennis G. Drews</td>
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<tr>
<td>Gross Construction Volume of Projects</td>
<td></td>
</tr>
<tr>
<td>1979</td>
<td>$5 million</td>
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<td>1980</td>
<td>$5 million</td>
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<td>Firm Personnel by Discipline</td>
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</tr>
<tr>
<td>Architectural</td>
<td>4</td>
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<tr>
<td>Landscape Architects</td>
<td>½</td>
</tr>
<tr>
<td>Other General</td>
<td>½</td>
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<tr>
<td>Total in Firm</td>
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</tr>
<tr>
<td>Office Buildings</td>
<td>10</td>
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<tr>
<td>Shopping Centers/Retail</td>
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<tr>
<td>Restaurants</td>
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<tr>
<td>Industrial</td>
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<tr>
<td>Banks/Financial</td>
<td>5</td>
</tr>
<tr>
<td>Medical/Health Care</td>
<td>5</td>
</tr>
<tr>
<td>Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>Solar and/or Earth Sheltered</td>
<td>15</td>
</tr>
<tr>
<td>Architect Designed Homes</td>
<td>15</td>
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<td>Townhouses/Apartments</td>
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<td>Municipal Buildings</td>
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<td>Restoration/ Renovation</td>
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<tr>
<td>Churches/Worship</td>
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<tr>
<td>Landscape Architecture</td>
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<td>Upper Midwest 100%</td>
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</tr>
<tr>
<td>Solar-Bermed Residence for Corporate Executive, Rosemount, MN; St. Paul's Lutheran Church, Wyoming, MN; Christ Memorial Lutheran Church, Plymouth, MN; Lakewood Village Townhouses, White Bear Lake, MN; John Buckley Earth Sheltered Residence, North Branch, MN; Reel Precision Manufacturing Office Warehouse, Vadnais Heights, MN; Cannon Mall Shopping Center, Cannon Falls, MN</td>
<td></td>
</tr>
<tr>
<td>Manufacturers contact: Dennis Drews or Wayne Mincke</td>
<td></td>
</tr>
<tr>
<td>Clients contact: Eldon Morrison or Dennis Drews</td>
<td></td>
</tr>
<tr>
<td>MYERS &amp; BENNETT ARCHITECTS/BRW BATHER-RINGROSE-WOLSFELD-JARVIS-GARDNER, INC.</td>
<td></td>
</tr>
<tr>
<td>2829 University Ave., S.E.</td>
<td></td>
</tr>
<tr>
<td>Minneapolis, MN 55414</td>
<td></td>
</tr>
<tr>
<td>612/375-7878</td>
<td></td>
</tr>
<tr>
<td>Established 1956</td>
<td></td>
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<tr>
<td>David J. Bennett</td>
<td>AIA</td>
</tr>
<tr>
<td>Donald W. Ringrose</td>
<td>PE</td>
</tr>
<tr>
<td>Richard P. Wolsfeld</td>
<td>PE, AICP</td>
</tr>
<tr>
<td>Peter E. Jarvis</td>
<td>AICP</td>
</tr>
<tr>
<td>Lawrence J. Gardner</td>
<td>PE</td>
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<tr>
<td>Thomas F. Carroll</td>
<td>PE</td>
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<tr>
<td>James E. Boerhave</td>
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</tr>
<tr>
<td>Harry A. Reed</td>
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<tr>
<td>Jack Lynch</td>
<td>ASLA</td>
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<td>Arnold Ullevig</td>
<td>PE</td>
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<td>Gross Construction Volume of Projects</td>
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<tr>
<td>1979</td>
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<td>Firm Personnel by Discipline</td>
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<tr>
<td>Architects</td>
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<tr>
<td>Technicians-Survey Crew</td>
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<td>Administrative</td>
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<tr>
<td>Planning Professionals</td>
<td>9</td>
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<td>Transportation Professionals</td>
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<td>Engineers</td>
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<td>Total in Firm</td>
<td>115</td>
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<tr>
<td>Work %</td>
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<tr>
<td>Office Buildings</td>
<td>10</td>
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<tr>
<td>Shopping Centers/Retail</td>
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<tr>
<td>Educational</td>
<td>22</td>
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<tr>
<td>Banks/Financial</td>
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<tr>
<td>Townhouses/Apartments</td>
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<tr>
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<td>Municipal Buildings</td>
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<tr>
<td>Solar and/or Earth Sheltered</td>
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<tr>
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<tr>
<td>Upper Midwest 85% Other U.S. 15%</td>
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<tr>
<td>Williamson Hall (U of M); 6 Regional and National Arch. Awards; Civil/Mineral Engineering (U of M); U.S.A.F. Academy, Visitor Center; Walker Underground Library, Minneapolis; Bonaventure Center, Ridgegale; Town Oaks Townhouses, Minneapolis, Design &amp; Environment Award for Excellence</td>
<td></td>
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<tr>
<td>Manufacturers contact: Jack Myers or Larry Opseth</td>
<td></td>
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<tr>
<td>Clients contact: Architecture: David Bennett or Mark Swens Planning: Peter Jarvis Transportation: Richard Wolsfeld Engineering: Donald Ringrose or Lawrence Gardner</td>
<td></td>
</tr>
<tr>
<td>DAVID NORBACK &amp; ASSOC.</td>
<td></td>
</tr>
<tr>
<td>1736 Lincoln Ave.</td>
<td></td>
</tr>
<tr>
<td>St. Paul, MN 55105</td>
<td></td>
</tr>
<tr>
<td>612/698-5089</td>
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<tr>
<td>Established 1979</td>
<td></td>
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<tr>
<td>David C. Norback</td>
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<tr>
<td>NORDALE ASSOCIATES</td>
<td></td>
</tr>
<tr>
<td>3250 W. 66th St.</td>
<td></td>
</tr>
<tr>
<td>Minneapolis, MN 55435</td>
<td></td>
</tr>
<tr>
<td>612/925-3646</td>
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<tr>
<td>Established 1972</td>
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<tr>
<td>David E. Nordale</td>
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<td>Upper Midwest 55% Other U.S. 30% International 15%</td>
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<tr>
<td>Manufacturers contact: Dave Nordale</td>
<td></td>
</tr>
<tr>
<td>Clients Contact: Dave Nordale</td>
<td></td>
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<tr>
<td>NORDBLOM &amp; ASSOCIATES</td>
<td></td>
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<tr>
<td>12450 Wayzata Blvd.</td>
<td></td>
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<tr>
<td>Minnetonka, MN 55343</td>
<td></td>
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<tr>
<td>612/546-5753</td>
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<tr>
<td>Established 1932</td>
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<td>Donald O. Nordblom</td>
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<td>1979</td>
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<td>Work %</td>
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<td>Office Buildings</td>
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<td>Upper Midwest 100%</td>
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<td>Ridge Plaza Bldg., Minnetonka; Burnet Office Bldg., Wayzata; St. Paul Union Gospel Mission; St. Paul; M. Fredericks Residence, North Oaks; Pebblebrook Apartments, Bloomington; Holiday Inn Motel, Maplewood</td>
<td></td>
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<tr>
<td>Manufacturers contact: Bruce Schmit</td>
<td></td>
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<tr>
<td>Clients contact: Donald O. Nordblom</td>
<td></td>
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</tbody>
</table>
WHEN THE CHIPS ARE DOWN...
This may be the most important card you hold!

Prompt claim payment, usually within 48 hours of receipt, is an outstanding feature of the MSAIA group insurance program. Compare this to the usual weeks of delay under most other group insurance plans.

Association Administrators & Consultants, Inc. 800/854-0491
18872 Mac Arthur Boulevard, Suite 400, Irvine, California 92715

It's the hospital identification card carried by participants in the Minnesota Society, AIA's Group Insurance Program. It guarantees coverage for eligible expenses for the first two days of hospital confinement, allowing entry without delays.

For information about the MSAIA Group Insurance Program write or telephone our service organization.
PATH ERIKSON MADSON WATTEN, INC.
2311 Wayzata Blvd.
Minneapolis, MN 55405
612-374-3490
Established 1955

Donald M. Erickson
John A. Madson
L. Vern Watten

Gross Construction Volume of Projects
1979 $6 million
1980 $8 million
1981 (est.) $13 million

Firm Personnel by Discipline
Architectural 6
Administrative 2
Other General 1
Total in Firm 9

Office Buildings 5
Shopping Centers/Retail 5
Industrial 5
Educational 10
Medical/Health Care 10
Apartments/Condominiums 30
Townhouses 15
Municipal Buildings 12
Interior Design 2
Planning 3

Upper Midwest 100%

Mercy Hospital Addition, Moose Lake; Bethel Manor II, Sr, Citizen Housing, Alexandria; Atkin Hospital Addition, Atkin; Anoka County Courthouse, Anoka; Scott County Courthouse, Shakopee

Manufacturers contact: Any of the Three Principals
Clients contact: Any of the Three Principals

BENT PAULSEN, AIA
1305 Oakview Lane N.
Plymouth, MN 55441
612-545-3685
Established 1977

Bent Paulsen

Firm Personnel by Discipline
Architectural 1

Office Buildings 5
Shopping Centers/Rental 40
Industrial 10
Educational 5
Interior Design 5
Solar and/or Earth Sheltered 20
Architect Designed Homes 15

Upper Midwest 100%

Gardeneer Home & Yard Center, Minnetonka; *Office Building for Computer Designed Systems, Plymouth; Remodeling of Ice Arena, Plymouth; *Earth Sheltered Home, Owatonna; Middletown Shopping Center, Spring Lake, Park; *Office—Manufacturing Bldg, Rodgers; *Not Built at Present Time

Manufacturers contact: Bent Paulsen
Clients contact: Bent Paulsen

PAULY & OLSEN ASSOCIATES, LTD.
113 Fifth Ave. S.
St. Cloud, MN 56301
612-252-4740
Established 1974

Robert F. Pauly
Richard A. Olsen
Gale J. Eastwood
Joseph R. Bettendorf

Gross Construction Volume of Projects
1979 $4.3 million
1980 $5.8 million
1981 (est.) $7 million

Firm Personnel by Discipline
Architectural 7
Engineering 4
Administrative 2
Other General 1
Total in Firm 14

Office Buildings 7.5
Shopping Centers/Rental 7.5
Educational 15
Banks/Financial 15
Medical/Health Care 3.75
Solar and Earth Sheltered 3.75
Municipal Bldgs. 7.5
Restoration/Remodeling 3.75
Prime Engineering 25
Churches/Worship 3.75

Upper Midwest 100%

Viking Coca-Cola Bottling Company, New Facility, College of St. Benedict, Henrita Academic Bldg. renovation, St. Joseph, Mn; Church of St. Anne, remodeling, Kimball, MN; Maintenance Bldg., St. Cloud State University, St. Cloud, Mn; Sauk Rapids Fire Station; Enfield I-94 Safety Rest Area

Manufacturers contact: Don Schuba
Clients contact: Robert F. Pauly, Richard A. Olsen

PERRENOUD ARCHITECTS, INC.
162 S. Plaza Bldg.
Gamble Center
Minneapolis, MN 55416
612-544-2773
Established 1968

Donald J. Perrenoud
Bruce DeJong

Gross Construction Volume of Projects
1979 $14 million
1980 $8 million
1981 (est.) $10 million

Firm Personnel by Discipline
Architectural 6
Administrative 2
Total in Firm 8

Office Buildings 15
Shopping Centers/Retail 55
Restaurants 5
Industrial 10
Banks/Financial 1
Solar and/or Earth Sheltered 1
Architect Designed Homes 2
Townhouses/Condominiums 5
Municipal Buildings 2
Restoration/Remodeling 1
Interior Design 1
Planning 2

Upper Midwest 90% Other U.S. 10%

Valley West Des Moines Mall; Water Purification Company; Phillips Temro, Inc.; Copper Coil; Beaver Mall; Neal Slate Addition

Manufacturers contact: Bruce A. DeJong
Clients contact: Donald J. Perrenoud

PETE RSON, CLARK AND ASSOCIATES
750 Plymouth Bldg.
Minneapolis, MN 55402
612-333-3215
Established 1960

Wilber B. Clark, Jr.
Richard A. Peterson

Gross Construction Volume of Projects
1979 $16,850,00
1980 $16,500,00
1981 (est.) $6,000,00

Firm Personnel by Discipline
Architectural 1
Planning 1
Interior Designers 1
Other General 1
Total in Firm 2

Office Buildings 2
Restaurants 1
Industries 1
Banks/Financial 1
Interior Design 1
Architect Designed Homes 1
Restoration/Remodeling 1
Churches/Worship 1

Upper Midwest 100%

Northwestern National Bank Operations Minneapolis; Hyatt-Regency Hotel, Minneapolis (Associate Architect and Constr. Manager, Hennepin County Govt. Center, Steel and Glass, Ebenezer Housing Project (Joint Venture with Commissioner of Housing), Minnesota Zoological Garden, MSAIA Award; Midwest Plaza, East Tower, Mpls.

Manufacturers contact: Clark, Peterson, Paulsen
Clients contact: Clark, Peterson

WILLIAM S. PETERSON AND ASSOCIATES
ARCHITECTS
1102 Wesley Temple Bldg.
Minneapolis, MN 55403
612-871-1331
Established 1976

William S. Peterson

Gross Construction Volume of Projects
1979 $2.5 million
1980 $2.7 million
1981 (est.) $3 million

Firm Personnel by Discipline
Architectural 1
Interior Designer 1
Administrative 1
Total in Firm 3

Office Buildings 1
Shopping Centers/Retail 1
Restaurants 1
Banks/Financial 1
Medical/Health Care 1
Interior Design 1
Solar and Earth Sheltered 1
Churches/Worship 1
Planning 1

Upper Midwest 100%

Clients contact: William S. Peterson

76 Architecture Minnesota/Feb. 1981
H. M. PIERCE AIA ARCHITECTS
5930 Kirkwood Lane
Plymouth, MN 55442
612/559-4001
Established 1974
Harold M. Pierce

Gross Construction Volume of Projects
1979 $3 million
1980 $3 million
1981 (est.) $4 million

Firm Personnel by Discipline
Architectural 1.5
Total in Firm 1.5

Work %
Office Buildings 15
Restaurants 20
Industrial 10
Solar and/or Earth Sheltered 5
Interior Design 5
Architect Designed Homes 5
Townhouses/Apartments/ Condominiums 5
Restoration/Renovation 15
Churches/Worship 5
Other 10

Upper Midwest 100%
Trader & Trapper Restaurant, Eau Claire; Blood Plasma Center, Minneapolis; Residence, Fish Lake; Group Home, Sandstone (Renovation); Manufacturing & Warehouse, Golden Valley; Offices for Community Emergency Assistance Programs, Inc., Brooklyn Center

Manufacturers contact: Hal Pierce
Clients contact: Hal Pierce

PAUL PINK & ASSOCIATES, INC.
430 Oak Grove, Suite #306
Minneapolis, MN 55403
612/871-5615
Established 1974
Paul Pink

Gross Construction Volume of Projects
1979 $9,350,000
1980 $10 million
1981(est.) $25 million

Firm Personnel by Discipline
Architectural 7
Other Technical 10
Administrative 4
Total in Firm 21

Work %
Office Buildings 10
Shopping Centers/Retail 70
Restaurants/Theaters 6
Apartments/Condominiums 4
Townhouses 4
Restoration/Renovation 10

Upper Midwest 50% Other U.S. 50%
Brooklyn Park Sports & Health, 1978 MSAIA Merit Award; Yorkdale Townhomes, Edina, MN; Lake Point Condominiums, Joint Venture; Burnhaven Mall, Burnsville, MN; Wards Terrace Shopping Ctr., Robbinsdale, MN; Old Capitol Theatre, Iowa City, Iowa; Los Primos Restaurants, Twin Cities Suburbs

Manufacturers contact: Richard Bastyr
Clients contact: Paul Pink, Jeremy Mayberg or Michael Shields
PETER RACCHINI AND ASSOCIATES, ARCHITECTS
716 Third Street, Gettysburg building
White Bear Lake, MN 55110
612/429-5376
Established 1963

Peter L. Racchini

Gross Construction Volume of Projects
1979 $2.5 million
1980 $1.1 million
1981 (est.) $2.2 million

Firm Personnel by Discipline
Architectural 1
Other Technical 5
Administrative 1
Total in Firm 2

Work %
Office Buildings 55
Medical/Health Care 25
Interior Design 15

POPE ASSOCIATES INC.
533 St. Clair Ave.
St. Paul, MN 55102
612/291-8894
Established 1977

Robert L. Pope
Jon R. Pope
Daniel M. Kleeber

Gross Construction Volume of Projects
1979 $25 million
1980 $35 million
1981 (est.) $50 million

Firm Personnel by Discipline
Architectural 12
Other Technical 1
Administrative 1
Other General 2
Total in Firm 16

Work %
Office Buildings 20
Shopping Centers/Retail 10
Restaurants 5
Industrial 30
Banks/Financial 10
Solar and/or Earth Sheltered 1
Condominiums 15
Townhouses/Apartments/Condominiums 30
Restoration/Renovation 7
Churches/Worship 2
Solar and/or Earth Sheltered 2

RAMBO LOGAN SLOAT ASSOCIATES, INC.
5100 Thimens Ave.
Minnetonka, MN 55343
612/474-4109
Established 1977

Logan W. Johnson
Clark L. Rambo
Lynn D. Sloat

Gross Construction Volume of Projects
1979 $14 million
1980 $10 million
1981 (est.) $12 million

Firm Personnel by Discipline
Architectural 12
Administrative 1
Total in Firm 13

Work %
Office Buildings 60
Solar and/or Earth Sheltered 15
Architect designed homes 10
Churches/Worship 15

Ralph Rapsom & Associates, Inc.
1503 Washington Ave. S.
Minneapolis, MN 55445
612/333-4561
Established 1954

Ralph Rapsom

Gross Construction Volume of Projects
1979 $1.25 million
1980 $1.25 million
1981 (est.) $1 million

Firm Personnel by Discipline
Architectural 1
Other General 2
Total in Firm 13

Work %
Office Buildings 55
Solar and/or Earth Sheltered 15
Architect designed homes 10
Churches/Worship 15

Upper Midwest 70% Other U.S. 30%

Cedar Square West, AIA Honor Award; Merit Award; Performing Arts Center, UMN; MSAIA Honor Award; Performing Arts Center, U of M, Morris, MSAIA Honor Award; Tew Residence, MSAIA Award; Recreation District Building, U of South Illinois, MSAIA Honor Award

Manufacturers contact: Richard L. Harginski
Clients contact: Robert L. Pope or Jon R. Pope
ELY & ASSOCIATES ARCHITECTS, INC.

A. 25th Ave.

3ud, MN 56301

52-5272

V. Remely

AIA

Construction Volume of Projects

$1.9 million

$2.5 million

Personnel by Discipline

Architectural 1

Technical 3

in Firm 4

Work %

Buildings 10

Retail 7

National 5

Financial 5

Health Care 5

and/or Earth Sheltered 25

ct Designed Homes 5

houses/Apartments/

miniums 2

pal Buildings 20

ation/Renovation 7

ing 2

Engineering 1

s/Hospe 5

Midwest 100%

-ition Credit Association; Federal Land

St. Cloud YMCA; St. Cloud Boy's Club;

per Park

acturers contact: Dave Remely

ctact: Dave Remely

CARROLL MULLER ASSOCIATES,

Box 130

First Street S.

St. Paul, MN 55343

Established 1955

C. Robertson

Hennemuth

arson

Barger

Rosopf

L. Williamson

KToukoumos

Reading

Homme

Construction Volume of Projects

$7.5 million

$6.0 million

$9.0 million

Personnel by Discipline

Architectural 6

ering 43

ete Architects 4

Designer 1

Technical 79

ative 26

Firm 159

Work %

Buildings 5

ional 3

al 5

Financial 10

uses/Apartments/

miniums 20

al Buildings 15

ation/Renovation 10

ging 10

Engineering 5

te Architecture 5

Firm Personnel by Discipline

Architectural 3

Other General .5

Total in Firm 3.5

Work %

Educational 85

Banks/Financial 5

Churche/Worship 10

Upper Midwest 100%

Bethany Lutheran Theological Seminary,

Mankato, MN; St. James Elementary School,

St. James, MN; Post Office, New Ulm, MN;

Mail Office, Northwestern Nat'l. Bank, Mankato,

School Addition, Springfield, MN; Federal Land

Bank, Mankato, MN

Manufacturers contact: Walter B. Cheever

ctact: Walter B. Cheever

Upper Midwest 100%

Fairbault City Hall Renovation, Fairbault;

The Renaissance Apartments, Rehabilitation,

Hopkins; First National Bank, Hopkins; Elderly

Housing, Jordan; Dakota NW Office/Bank,

Bismarck, ND; Holiday Inn, Mankato

Manufacturers contact: William H. Hennemuth

lients contact: William H. Hennemuth

ROCKEY & CHEEVER ARCHITECTS

300 Martin Bldg.

Mankato, MN 56001

507/345-3577

Established 1878

Walter B. Cheever

AIA, CSI

Gross Construction of Projects

1979 $800,000

1980 $1.2 million

13 arched windows, 19' wide by 35' high... 2,000 yds.
of casement fabric Austrian swags

A tall order. Northern Federal Building's lobby draperies, per designer's specs, called for 13 uniform works of art on a giant scale.

Metro Draperies people moved in, measured and made layouts. Constructed a 35' high scaffold for measuring and hanging. Cut templates, installed metal support rods and special fasteners. Meanwhile at the Metro Draperies plant a 40' long worktable was constructed to handle the over-size drapery layouts and fabrics.

100-plus after-hours later, Northern Federal's masterworks were complete. Today they hang as 13 beautiful examples of what people who care can do. Put them to work on your next drapery job. You, too, will be proud of the results...big projects or small. Who are these people? The commercial drapery people — Metro Draperies, Inc.

Metro Draperies, Inc.

3543 Grand Avenue, Minneapolis, MN 55408

Phone: 822-6000. Gordon Nelson

Architecture Minnesota/Feb. 1981 79
### DAVID TODD RUNYAN & ASSOC. INC.

2412 Valentine Ave.
St. Paul, MN 55108
612/645-2700
Established 1973

David T. Runyan  
AIA

<table>
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<td>Interior Designer</td>
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<th>Work %</th>
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<td>Industrial 35</td>
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<td>Medical/Health Care 3</td>
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<tr>
<td>Architect Designed Homes 5</td>
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<td>Townhouses/Apartments/Condominiums 6</td>
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Upper Midwest 72%  Other U.S. 28%

### RVK ARCHITECTS

390 E. Richmond
S. St. Paul, MN 55075
612/450-1491
Established 1977

Richard V. Krumm  
AIA

<table>
<thead>
<tr>
<th>Gross Construction Volume of Projects</th>
<th>1979</th>
<th>$1.3 million</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1980</td>
<td>$2.7 million</td>
</tr>
<tr>
<td></td>
<td>1981 (est.)</td>
<td>$3.6 million</td>
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<table>
<thead>
<tr>
<th>Firm Personnel by Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
</tr>
<tr>
<td>Interior Designers</td>
</tr>
<tr>
<td>Administrative</td>
</tr>
<tr>
<td>Total in Firm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Buildings 30</td>
</tr>
<tr>
<td>Restaurants 45</td>
</tr>
<tr>
<td>Interior Design 15</td>
</tr>
<tr>
<td>Architect Designed Homes 10</td>
</tr>
<tr>
<td>Townhouses 10</td>
</tr>
</tbody>
</table>

Upper Midwest 100%

### ROBERT Y. SANDBERG AND ASSOCIATES, INC.

505 E. 26th Street
Hibbing, MN 55746
218/263-7553
Established 1955

Robert Y. Sandberg  
AIA

<table>
<thead>
<tr>
<th>Gross Construction Volume of Projects</th>
<th>1979</th>
<th>$2 million</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1980</td>
<td>$2 million</td>
</tr>
<tr>
<td></td>
<td>1981( est.)</td>
<td>$2.5 million</td>
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<table>
<thead>
<tr>
<th>Firm Personnel by Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
</tr>
<tr>
<td>Other General</td>
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<tr>
<td>Total in Firm</td>
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<table>
<thead>
<tr>
<th>Work %</th>
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</thead>
<tbody>
<tr>
<td>Office Buildings 5</td>
</tr>
<tr>
<td>Shopping Centers/Retail 2</td>
</tr>
<tr>
<td>Restaurants 3</td>
</tr>
<tr>
<td>Industrial 5</td>
</tr>
<tr>
<td>Educational 10</td>
</tr>
<tr>
<td>Banks/Financial 10</td>
</tr>
<tr>
<td>Medical/Health Care 40</td>
</tr>
<tr>
<td>Architect Designed Homes 2</td>
</tr>
<tr>
<td>Municipal Buildings 5</td>
</tr>
<tr>
<td>Interior Design 5</td>
</tr>
<tr>
<td>Solar and/or Earth Sheltered 5</td>
</tr>
<tr>
<td>Restoration/Renovation 5</td>
</tr>
<tr>
<td>Planning 3</td>
</tr>
</tbody>
</table>

Upper Midwest 100%

### EDWARD SCHAFER ASSOCIATES, INC.

Endien Station
1500 South St.
Duluth, MN 55812
218/724-6806
Established 1978

Edward G. Schafer  
Ralph Olson  
Mark Wentzell  
Mark Anderson  
Assoc.

<table>
<thead>
<tr>
<th>Gross Construction Volume of Projects</th>
<th>1979</th>
<th>$3.2 million</th>
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<tbody>
<tr>
<td></td>
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<td>$1.7 million</td>
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<tr>
<td></td>
<td>1981( est.)</td>
<td>$2.5 million</td>
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</table>

<table>
<thead>
<tr>
<th>Firm Personnel by Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
</tr>
<tr>
<td>Landscape Architects 1</td>
</tr>
<tr>
<td>Administrative</td>
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<tr>
<td>Total in Firm</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial 5</td>
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<tr>
<td>Educational 40</td>
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<tr>
<td>Architect Designed Homes 5</td>
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<tr>
<td>Churches/Worship 20</td>
</tr>
<tr>
<td>Municipal Buildings 25</td>
</tr>
<tr>
<td>Landscape Architecture 5</td>
</tr>
</tbody>
</table>

Upper Midwest 100%

### SCHROEDER ASSOCIATES

Roseville, MN 55113
612-631-0159
Established 1976

Harry Schroeder

<table>
<thead>
<tr>
<th>Gross Construction Volume of Projects</th>
<th>1979</th>
<th>$1.3 million</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1980</td>
<td>$2 million</td>
</tr>
<tr>
<td></td>
<td>1981( est.)</td>
<td>$2 million</td>
</tr>
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<table>
<thead>
<tr>
<th>Firm Personnel by Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Work %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Buildings 20</td>
</tr>
<tr>
<td>Industrial 20</td>
</tr>
<tr>
<td>Townhouses/Apartments/Condominiums 20</td>
</tr>
<tr>
<td>Restaurants 20</td>
</tr>
<tr>
<td>Educational 20</td>
</tr>
</tbody>
</table>

Upper Midwest 100%

### RICHARD SCHWARZ/NEAL WEBER, INC.

3601 Park Center Blvd.
Minneapolis, MN 55416
612/725-3542
Established 1970

Richard J. Schwarz  
Neal Weber

<table>
<thead>
<tr>
<th>Gross Construction Volume of Projects</th>
<th>1979</th>
<th>$2 million</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1980</td>
<td>$13 million</td>
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<td></td>
<td>1991</td>
<td>$15 million</td>
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<table>
<thead>
<tr>
<th>Firm Personnel by Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural</td>
</tr>
</tbody>
</table>

Manufacturers contact: Harry Schroeder  
Clients contact: Harry Schroeder

Manufacturers Contact: Robert Y. Sandberg  
Clients Contact: Robert Y. Sandberg

Manufacturers Contact: Edward G. Schafer  
Clients Contact: Edward G. Schafer

Manufacturers Contact: Richard J. Schwarz  
Clients Contact: Richard J. Schwarz

Manufacturers Contact: Neal Weber  
Clients Contact: Neal Weber
### Firm Personnel by Discipline

<table>
<thead>
<tr>
<th>Discipline</th>
<th>1979</th>
<th>1980</th>
</tr>
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<tr>
<td>Architectural</td>
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<td>2</td>
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<td>Total in Firm</td>
<td>6</td>
<td>7</td>
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### Gross Construction Volume of Projects

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
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<tbody>
<tr>
<td>1979</td>
<td>$3.5 million</td>
</tr>
<tr>
<td>1980</td>
<td>$5.5 million</td>
</tr>
<tr>
<td>1981 (est.)</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>

### Work %

- Office Buildings: 15%
- Restaurants: 10%
- Industrial: 5%
- Banks/Financial: 5%
- Architect Designed Homes: 10%
- Townhouses/Apartments/Condominiums: 10%
- Solar and/or Earth Sheltered: 75%
- Restoration/Renovation: 10%

### Upper Midwest 100%

- Office Buildings: 10%
- Banks/Financial: 20%
- Medical/Health Care: 20%
- Churches/Worship: 30%
- Municipal Buildings: 10%
- Restoration/Renovation: 10%

### Manufacturers Contact and Clients Contact

- Manufacturers contact: Richard Schwarz or Neil Weber
- Clients contact: Richard Schwarz or Neil Weber

---

**RICHARDS ROOFING COMPANY**

a RICHARDS company
Port Richards • Savage, Mn. 55378

**INDUSTRIAL AND HIGHWAY ASPHALTS**

---

**Look to the Chas. M. Freidheim Co. for your Block and Ready Mix needs. Call for our new catalog showing our large selection of architectural block.**

---

**ASPHALT ROOFING PAPER**

Richfelt asphalt-saturated organic felt is designed-oriented to architects' specifications. Daily lab testing assures ASTM quality in addition to independent laboratory tests at specified intervals. Identical uniformity with either plain or perforated.

Let us quote on any grade of oxidized asphalt, too. Call collect in Minnesota 612/894-8000—
Out of State 800-328-2711.
### SHEETERS, LEACH & LINDSTROM, INC.
1011 Nicollet Mall
Minneapolis, MN 55403
612/338-6741
Established 1917

A. J. Wilwerding
Richard Vasantha
Basil Ficnowich
George Theodore
Kaare Faber
William Scott

<table>
<thead>
<tr>
<th>Firm Personnel by Discipline</th>
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<tr>
<td>Architectural</td>
<td>35</td>
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<tr>
<td>Engineering</td>
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<td>Other Technical</td>
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<tr>
<td>Administrative</td>
<td>18</td>
</tr>
<tr>
<td>Total in Firm</td>
<td>90</td>
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</tbody>
</table>

**Gross Construction Volume of Projects**
- **1979**: $42 million
- **1980**: $50 million
- **1981 (est.)**: $56 million

**Manufacturers contacted**: Jerry DeZelar
**Clients contacted**: Jerry DeZelar

### SETTER, LEACH & LINDSTROM, INC.
903 Farmers & Mechanics Savings Bank Bldg.
Minneapolis, MN 55402
612/339-2257
Established 1978

David A. Shea III

**Gross Construction Volume of Projects**
- **1979**: $7 million
- **1980**: $9 million
- **1981 (est.)**: $10 million

**Manufacturers contacted**: Steve Haas
**Clients contacted**: David A. Shea, III, AIA

### SHEPHERD RESOURCES, INC.
612/333-6837
Minneapolis, MN 55403

**Gross Construction Volume of Projects**
- **1979**: $7.5 million
- **1980**: $4.5 million
- **1981 (est.)**: $4.0 million

**Manufacturers contacted**: Steve Haas
**Clients contacted**: David A. Shea, III, AIA

### SHANK/KLEINEMAN ARCHITECTURAL DESIGN, INC.
507 Pioneer Bldg.
St. Paul, MN 55101
612/224-7831
Established 1977

Steven Kleineman
Fred Shank
Gerald DeZelar

**Gross Construction Volume of Projects**
- **1979**: $7.5 million
- **1980**: $4.5 million
- **1981 (est.)**: $4.0 million

**Manufacturers contacted**: Gordon Matson
**Clients contacted**: Greg Fern

### SHELTER RESOURCES, INC.
1219 Marquette Ave.
Minneapolis, MN 55403
612/333-6637
Established 1974

Alan D. Raymond
Michael D. Sharratt
Larry F. Lutz
William M. Bracken

**Gross Construction Volume of Projects**
- **1979**: $4 million
- **1980**: $5 million
- **1981 (est.)**: $8.5 million

**Manufacturers contacted**: John Skujins
**Clients contacted**: John Skujins

### SHERMAN ARCHITECTURE
2300 E. 22nd St.
Mpls., MN 55406
612/340-0590
Established 1976

John Skujins

**Firm Personnel by Discipline**
- **Architectural**: 10
- **Financial**: 5
- **Planning**: 10
- **Landscape Architecture**: 10

**Gross Construction Volume of Projects**
- **1979**: $1.75 million
- **1980**: $1.85 million

**Manufacturers contacted**: John Skujins
**Clients contacted**: John Skujins
### Y. GLOTTER ASSOCIATES

La Salle Ave.
Minneapolis, MN 55403
612-1401

Established 1946

Y. Smiley,
Glotter
Y. Laiderman
R. Nyberg

FAIA, RAIC, AHA
AIA, AHA, AHP

<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>$21.2 million</td>
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<td></td>
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<tr>
<td>$27.5 million</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$34.0 million</td>
<td></td>
<td></td>
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</table>

Personnel by Discipline

<table>
<thead>
<tr>
<th>Architectural</th>
<th>Interior Designers</th>
<th>Other Technical</th>
<th>Administrative</th>
<th>Total in Firm</th>
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<tbody>
<tr>
<td>14</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>21</td>
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Firm Personnel by Discipline

<table>
<thead>
<tr>
<th>Architectural</th>
<th>Interior Designers</th>
<th>Other Technical</th>
<th>Administrative</th>
<th>Total in Firm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
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</tbody>
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Work %

<table>
<thead>
<tr>
<th>Office Buildings</th>
<th>Restaurants</th>
<th>Industrial</th>
<th>Educational</th>
<th>Medical/Health Care</th>
<th>Interior Design</th>
<th>Solar and/or Earth Sheltered</th>
<th>Energy Retrofit</th>
<th>Townhouses/Apartments/Condominiums</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>3</td>
<td>12</td>
<td>5</td>
<td>35</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>8</td>
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</tbody>
</table>

Upper Midwest 100%

Belwin Outdoor Orientation Center; United Cerebral Palsy of Minneapolis, Tenant Award; Therepy/Recreation Bldg. St. Peter State Hospital; Billy Graham Center; Camp Friendship; Lufkin Medical Laboratories

Manufacturers contact: Ralph Y. Laiderman
Clients contact: Garold R. Nyberg

### SMITH ARCHITECTS, INC.

2101 Hennepin Ave. S.
Minneapolis, MN 55405
612/871-7900

Established 1959

Alden C. Smith AIA

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>$2 million</td>
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<td>$1.2 million</td>
<td>$1-$2 million</td>
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Firm Personnel by Discipline

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<thead>
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<th>Architectural</th>
<th>Interior Designers</th>
<th>Other Technical</th>
<th>Administrative</th>
<th>Total in Firm</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>3</td>
<td>12</td>
<td>5</td>
<td>35</td>
</tr>
</tbody>
</table>

Work %

<table>
<thead>
<tr>
<th>Office Buildings</th>
<th>Restaurants</th>
<th>Industrial</th>
<th>Educational</th>
<th>Medical/Health Care</th>
<th>Interior Design</th>
<th>Solar and/or Earth Sheltered</th>
<th>Energy Retrofit</th>
<th>Townhouses/Apartments/Condominiums</th>
</tr>
</thead>
<tbody>
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<td>3</td>
<td>12</td>
<td>5</td>
<td>35</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

Upper Midwest 100%

Belwin Outdoor Orientation Center; United Cerebral Palsy of Minneapolis, Tenant Award; Therepy/Recreation Bldg. St. Peter State Hospital; Billy Graham Center; Camp Friendship; Lufkin Medical Laboratories

Manufacturers contact: Aiden C. Smith
Clients contact: Aiden C. Smith

### W. SMITH ARCHITECTS & ENGR. SERVICES

525 Junction Street
Winona, MN 55987
507/452-4196

Established 1976

Jack Smuckler AIA

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>$750,000</td>
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<td>$2 million</td>
<td>$3 million</td>
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Firm Personnel by Discipline

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<th>Interior Designers</th>
<th>Other Technical</th>
<th>Administrative</th>
<th>Total in Firm</th>
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<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

### Inryco

_The pre-finished, pre-insulated Steel Wall System._

Inryco's energy efficient, steel wall systems combine beauty with strength ... attractive exterior surfaces that require minimal maintenance.

Also Available

- Field assembled walls
- Fire-rated walls.
- Acoustical wall panels.
- Explosive release walls.

Manufacturers contact: Alden C. Smith
Clients contact: Aiden C. Smith

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**WHEN YOU THINK OF PANELS THINK OF US.**
Office Buildings
Townhouses/Apartments/Condominiums
Architect Designed Homes
Restoration/Renovation
Upper Midwest 95% Other U.S. 5%
Smaby Residence; Goodman Residence; Anderson Residence; Carlson Residence; Levine Residence; Kenwood Restoration

Manufacturers contact: Dick Sutton
Clients contact: Jack Smuckler

SMSQ, INC., ARCHITECTS & PLANNERS
205 S. Water Street
P.O. Box 390
Northfield, MN 55057
507/645-4461
Established 1949

Edward A. Sövik
Sewell J. Mathre
Clinton L. Sathrum
Robert M. Quanbeck
Terrance J. Schlink

Gross Construction Volume of Projects
1979 $13,475,000
1980 $9 million
1981 (est.) $12 million

Firm Personnel by Discipline
Architectural 11
Landscape Architects 1
Other Technical 2
Administrative 3
Other General 1
Total in Firm 18

Office Buildings 3
Educational 35
Medical/Health Care 10
Interior Design 2
Solar and/or Earth Sheltered 2
Architect Designed Homes 3
Townhouses/Apartments/Condominiums 10
Churches/Worship 30
Industrial 5
Banks/Financial 5
Municipal Bldgs 5
Restoration/Renovation 5
Landscape Architecture 1

Upper Midwest 95% Other U.S. 5%

Our Savior’s Lutheran Church, Jackson; Christiansen Hall of Music, St. Olaf College, Northfield; Visitor’s Center, Stephens College, Solar Project, Columbia, MO; Halenbeck Hall addition, St. Cloud State University; Science building addition, Concordia College, Moorhead, MN; Dormitory, St. Olaf College, Northfield, MN

Manufacturers contact: Technical Librarian
Clients contact: Edward A. Sövik, Robert M. Quanbeck or Sevell J. Mathre

THOMAS H. STAHL, INC. ARCHITECTS
200 W. Old Shakopee Rd.
Bloomington, MN 55420
612/881-5610
Established 1966

Thomas Stahl

Gross Construction Volume of Projects
1979 $3,500,000
1980 $3,750,000

Firm Personnel by Discipline
Architectural 4
Administrative 1

Office Buildings 10
Restaurants 10
Industrial 10
Interior Design 10
Townhouses/Apartments/Condominiums 15
Planning 25
Churches/Worship 20

Upper Midwest 100%

Manufacturers contact: Thomas H. Stahl
Clients contact: Thomas H. Stahl

E. D. STANUS & ASSOCIATES, INC.
168 W. Austin Street
Duluth, MN 55803
218-724-0137
Established 1976

Donald E. Stanus
Ronald E. Stanus
Rickard A. Stanus
Wade A. Lawrence

Gross Construction Volume of Projects
1979 $7 million
1980 $5 million
1981 (est.) $7.5 million

Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

Educational 20
Medical/Health Care 10
Municipal Buildings 7
Restoration/Renovation 10
Townhouses/Apartments/Condominiums 48
Banks/Financial 2
Interior Design 3

Upper Midwest 100%

Bayfield County Nursing Care Facility, Washburn, WI; Bayfield County Law Enforcement Center, Washburn, WI; Midtowne Manor II, Duluth, West End Senior Center, Duluth; Renovation of Midtown I Ramsey Manors, Duluth; Vo-tech Addition to Northwestern H.S., Maple, WI

Manufacturers contact: Ronald E. Stanus or Rickard A. Stanus
Clients contact: Donald E. Stanus

STATION 19 ARCHITECTS INC.
2001 University Ave. S.E.
Minneapolis, MN 55414
612-623-1800
Established 1969

Keith Sjoquist
Darrel LeBarron
Lauren Wold
Greg Shuster

Gross Construction Volume of Projects
1979 $2.5 million
1980 $5.0 million
1981 (est.) $7.5 million

Firm Personnel by Discipline
Architectural 5
Engineering 1
Landscape Architects 1
Interior Designers 2
Other Technical 2
Administrative 2
Other General 7
Total in Firm 19

Office Buildings 10
Townhouses/Apartments/Condominiums 10
Restaurants 10
Banks/Financial 5
Medical/Health Care 20
Interior Design 5
Solar and/or Earth Sheltered 5
Architect Designed Homes 5
Churches/Worship 20
Restoration/Renovation 5
Landscape Architecture 5

Upper Midwest 85% Other U.S. 15%

Station 19 Offices-Restaurant, U of M Campus; Minneapolis, MN; Pracna on Main Restaurant; Minneapolis, MN; Wooddale Dental Center; Louis Park, MN; Elk River United Methodist Church, Elk River, MN; Lake Elmo State Bank; Lake Elino, MN; Brandychase Condominiums, Lauderdale, MN

Manufacturers contact: Greg Shuster
Clients contact: Darrel LeBarron

STEGNER-HENDRICKSON-McNUTT
ARCHITECTS & ENGINEERS
Route #111 P.O. Drawer 1
Brainerd, MN 56401
218-829-8765
Established 1956

L. E. Stegger
W. C. Hendrickson
J. H. McNutt

Gross Construction Volume of Projects
1979 $10 million
1980 $10 million
1981 (est.) $10 million

Firm Personnel by Discipline
Architectural 9
Engineering 1
Administrative 1
Total in Firm 11

Office Buildings 2
Educational 48
Banks/Financial 2
Medical/Health Care 10
Solar and/or Earth Sheltered 1
Architect Designed Homes 2
Municipal Buildings 10
Restoration/Renovation 5
Churches/Worship 10

Upper Midwest 100%

Brainerd Area Vocational Technical Institute Addition, Brainerd, MN; Burnsville High School Addition, Burnsville, MN; Owatonna Auditorium, Owatonna, MN; Marshall Fire Station, Marshall, MN; Murray County Hospital, Slayton, MN

Manufacturers contact: L. E. Stegger, W. C. Hendrickson, J. H. McNutt

M. STENERSON, ARCHITECT
205 E. Walnut
Stillwater, MN 55082
612-439-5329
Established 1974

Maurice Stenerson

Firm Personnel by Discipline
Architectural 1
ARCHITECTS . . .
DESIGNERS . . .
CONTRACTORS . . .
BUILDING OWNERS . . .

When you need a Folding Door or Operable Wall . . . . we can help you with:

DESIGN AND LAY-OUT
PRODUCT SELECTION
SOUND CONTROL
SPECIFICATIONS
COST ESTIMATES
INSTALLATION

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MINNETONKA, MN 55343
PHONE: 535-7759
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MODERNFOLD

THOMAS AND VECCI INC.
1518 E. Superior Street
Duluth, MN 55812
218/724-8802
Established 1971
John Ivey Thomas
Thomas A. Vecchi

Firm Personnel by Discipline
Architectural 3
Interior Designers 2
Other Technical 1
Administrative 1
Total in Firm 7

Office Buildings 10
Shopping Centers/Retail 20
Educational 15
Banks/Financial 10
Exterior Design 10
Planning 18
Exhibit Design 10

Upper Midwest 90% Other U.S. 9%
International 1%

John Ericsson Elementary School, Minneapolis;
Northwestern National Bank of Minneapolis;
Private Banking Center, Minneapolis; Minnesota
Historical Society Forest History Interpretive
Center Exhibit Design, Grand Rapids; Ed-Burt
Women's Wear Showroom, Hyatt Mart,
Minneapolis; The Xerox Store, Minneapolis,
Edina, St. Paul; U of M Mayo Hospital
Admissions Suite, Minneapolis

Manufacturers contact: Sandra Becker or Stacy
Strand
Clients contact: Bernard Jacob

THORSEN & THORSHOV ASSOCIATES, INC.
1000 Title Insurance Bldg.
Minneapolis, MN 55401
612/339-7671
Established 1957
Willard L. Thorsen
Roy N. Thorshov
William L. Fay
Keith von Busch

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able American prices. Sawhill is your source.
Gross Construction Volume of Projects
1979 $14 million
1980 $10 million
1981 (est.) $18 million

Firm Personnel by Discipline
Architectural 7
Other Technical 1
Other General 3
Total in Firm 11

Office Buildings 10
Condominiums 4
Shopping Centers/Retail 35
Restaurants 5
Industrial 2
Educational 10
Medical/Health Care 5
Interior Design 3
Solar and/or Earth Sheltered 8
Municipal Buildings 2
Restoration/Renovation 5
Planning 3
Other 2

Work %
Office Buildings 10
Condominiums 5
Shopping Centers/Retail 35
Restaurants 5
Industrial 2
Educational 10
Medical/Health Care 3
Interior Design 2
Solar and/or Earth Sheltered 5
Municipal Buildings 8
Restoration/Renovation 5
Planning 3
Other 2

Upper Midwest 50% Other U.S. 50%
Kelley Interpretive Center, Elk River, MN;
Midland National Bank Remodeling,
Minneapolis, MN; Basic Medical Science
Building/Univ. of MN, Duluth, MN; Highland
Apartment Building, Willmar, MN; J. C. Penney
Stores, Grand Forks, ND, LaCrosse, WI;
Plymouth City Hall, Plymouth, MN; Employees
Assn. of Minneapolis Office Building, Golden
Valley, MN; Burbank Livingston Griggs House
Restoration, St. Paul, MN

Manufacturers contact: Christopher Ueland
Clients contact: Willard L. Thorsen

TOLTZ, KING, DUVALL, ANDERSON AND
ASSOCIATES, INC.
2500 American Natl Bank Bldg.
St. Paul, MN 55101
612/292-4400
Established 1910
Robert R. Ryder
Wayne A. Olson
James E. Voyen
DuWayne R. Kasma
Duane T. Prew
Walter W. Thorpe

Gross Construction Volume of Projects
1979 $45 million
1980 $50 million

Firm Personnel by Discipline
Architectural 18
Other General 8
Engineering 91
Landscape Architects 2
Other Technical 61
Administrative 30
Total in Firm 210

Work %
Office Buildings 40
Industrial 5
Educational 5
Solar and/or Earth Sheltered 5
Restoration/Renovation 10
Municipal Buildings 10
Planning 5
Prime Engineering 5
Landscape/Architecture 3
Other 2

Upper Midwest 95% Other U.S. 5%
IBM Utility Plant expansion; Red Wing Energy
Education Centers I & II, Minnesota Consultants
Engineers Council State Honorary Award;
Anoka Fire Station; East Bethel City Hall; K3
Dining Commons at Macalester College;
Machinery Hall Arts Center, Mn. State Fair
Grounds, St. Paul.

Manufacturers contact: James Broten
Clients contact: DuWayne Kasma

TRAYNOR, HERMANSON & HAHN,
ARCHITECTS, INC.
311 Medical Arts Bldg.
Box 156
St. Cloud, MN 56301
612/251-8760
Established 1949
Raymond T. Hermanson
Gilbert F. Hahn
Edward L. Deloney
Richard W. Hagemeister

Gross Construction Volume of Projects
1979 $7 million
1980 $8 million

Firm Personnel by Discipline
Architectural 6
Administrative 2
Total in Firm 8

Work %
Office Buildings 13
Shopping Centers/Retail 5
Restaurants 2
Industrial 4
Educational 15
Banks/Financial 2

Kelley Interpretive Center, Elk River, MN;
Midland National Bank Remodeling,
Minneapolis, MN; Basic Medical Science
Building/Univ. of MN, Duluth, MN; Highland
Apartment Building, Willmar, MN; J. C. Penney
Stores, Grand Forks, ND, LaCrosse, WI;
Plymouth City Hall, Plymouth, MN; Employees
Assn. of Minneapolis Office Building, Golden
Valley, MN; Burbank Livingston Griggs House
Restoration, St. Paul, MN

Mervyn Mindess,
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Robert Isenberg,
Senior Geotechnical
Engineer
Patricia Bach,
Engineering Staff

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President
Robert Isenberg,
Senior Geotechnical
Engineer
Patricia Bach,
Engineering Staff
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<th>Work %</th>
<th>Office Buildings</th>
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<th>Interior Design</th>
<th>Solar and/or Earth Sheltered</th>
<th>Architect Designed Homes</th>
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**Gross Construction Volume of Projects**

- **1979**: $3.5 million
- **1980**: $3.5 million
- **1981 (est.)**: $3 million

**Firm Personnel by Discipline**

- **Architectural**: 3
- **Administrative**: 1
- **Total in Firm**: 4

**Work %**

- **Office Buildings**: 13
- **Industrial**: 7
- **Educational**: 15
- **Banks/Financial**: 40
- **Medical/Health Care**: 15
- **Interior Design**: 2
- **Townhouses**: 5
- **Churches/Worship**: 3

**Upper Midwest 100%**

- **Byrne Residence Apts., St. Paul**: MN Federal Office, Richfield; MHFA Energy-Efficient Housing, Owatonna; Office/Warehouse Project, Minnetonka; Barrington Eye Clinic, Owatonna; Senior Community Center, Ortonville

**Manufacturers contact**: L. D. Johnson

**Clients contact**: J. D. Voigt, D. W. Fourré
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Gross Construction Volume of Projects

<table>
<thead>
<tr>
<th>Year</th>
<th>Volume</th>
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<tbody>
<tr>
<td>1979</td>
<td>$4 million</td>
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<td>1980</td>
<td>$5 million</td>
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<td>1981 (est.)</td>
<td>$5 million</td>
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</tbody>
</table>

Firm Personnel by Discipline

- Architectural: 2
- Engineering: 1
- Administrative: 1
- Total in Firm: 4

Office Work:

- Work %
  - Office Buildings: 20
  - Industrial: 10
  - Educational: 10
  - Solar and/or Earth Sheltered: 10
  - Architect Designed Homes: 5
  - Municipal Buildings: 20
  - Restoration/Remodeling: 10
  - Prime Engineering: 5
  - Corrections: 10

Upper Midwest 100%

- Sherburne County Law Enforcement and Judicial Facility, Elk River, MN; WJON-WWJO Radio Station, St. Cloud, MN; Banker Systems, Inc., Corporate Offices, St. Cloud, MN; Northway Professionals Condo Office Bldg., St. Cloud, MN; Hillside Elementary School, Sauk Rapids, MN

Manufacturers contact: Craig Hess

Clients contact: Fredric Wemlinger

ALAN WILLIAMS ARCHITECT

13418 Excelsior Blvd.
Minnetonka, MN 55343

612/933-2011

Established 1978

Alan Williams

Gross Construction Volume of Projects

<table>
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<tr>
<th>Year</th>
<th>Volume</th>
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<tbody>
<tr>
<td>1979</td>
<td>$7 million</td>
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<td>1980</td>
<td>$3.5 million</td>
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<tr>
<td>1981 (est.)</td>
<td>$4 million</td>
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</tbody>
</table>

Firm Personnel by Discipline

- Architectural: 4
- Interior Designers: 1
- Other Technical: 4
- Administrative: 1
- Total in Firm: 10

Office Work:

- Work %
  - Office Buildings: 10
  - Shopping Centers/Retail: 10
  - Restaurants: 5
  - Industrial: 5
  - Educational: 20
  - Banks/Financial: 10
  - Interior Design: 5
  - Solar and/or Earth Sheltered: 5
  - Municipal Buildings: 10
  - Restoration/Remodeling: 5
  - Churches/Worship: 10
  - Medical/Health Care: 5
  - Planning: 5

Upper Midwest 100%

- First National Bank, Mankato, MN; Sr. High School, Jackson, MN; MN Valley Regional Library, Mankato, MN; First Lutheran Church, LeSueur, MN; Production Credit Association, Waseca, MN; Peoples Savings & Loan, Mankato, MN

Manufacturers contact: M. Skarphol, J. Kagermeier or R. Skaar

Clients contact: J. Kagermeier or R. Skaar
Manufacturers contact: Bruce Hassig
Clients contact: Lorenzo D. Williams, Steven M. Decoster, James W. O'Brien or Paul B. Strother

WINSOR/FARICY ARCHITECTS, INC.
28 West 5th Street
Suite 375
St. Paul, MN 55102
612/227-0655
Established 1971
Richard Faricy
Wayne Winsor
Thomas Lynch
Eugene Nelson
Eleanor Smith
John Lavander

Gross Construction Volume of Projects
1979 $14 million
1980 $38 million
1981 (est.) $61 million

Firm Personnel by Discipline
Architectural 32
Interior Designers 8
Administrative 12
Total in Firm 58

Work %
Office Buildings 40
Interior Design 5
Townhouses/Apartments/Condominiums 20

WILLIAMS/O'BRIEN ASSOCIATES, INC.
45 S. 9th St.
Minneapolis, MN 55402
612/338-8981
Established 1962
Lorenzo D. Williams FAIA
James W. O'Brien AIA

Gross Construction Volume of Projects
1979 $16 million
1980 $22 million
1981 (est.) $26 million

Firm Personnel by Discipline
Architectural 10
Administrative 1
Total in Firm 11

Office Buildings 25
Shopping Centers/Retail 5
Industrial 5
Educational 20
Interior Design 5
Solar and/or Earth Sheltered 3
Architect Designed Homes 4
Townhouses/Apartments/Condominiums 20
Municipal Buildings 3
Restoration/Renovation 5
Planning 5

Upper Midwest & International
Oxford Pool Building, St. Paul, MSAIA Award;
Functional Industries, Cokato, MSAIA Award;
Findley Place Housing, Minneapolis, MSAIA Award;
Classroom & Lab Buildings U of M; Learning Resource Center, U of M; Bridgeplace Office & Condominiums, Minneapolis, MN

Manufacturers contact: George Normandin
Clients contact: Richard Faricy, Wayne Winsor, Thomas Lynch, or Eugene Nelson

THE WOLD ASSOCIATION
530 N. Federal Bldg.
St. Paul, MN 55102
612/227-7773
Established 1968
Clark D. Wold
Kern C. Olson
Norman L. Glewwe
Mike S. Cox
Mikio Kirihara
Kevin Sullivan

Gross Construction of Projects
1979 $12 million
1980 $8 million
1981 (est.) $10 million

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Minneapolis/St. Paul
May 17–21

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arker: I am not much on prognostication, but there are important changes taking place around us that are deserving of comment, because in my judgment they will affect the way we do our work and therefore influence the architecture we produce in the coming years. Let me touch on just a few of the ones I consider significant:

**Energy conservation.** Minnesota with its extremes in temperature and weather has of necessity been in the forefront of efforts nationwide to conserve energy in the design of its buildings. Some of these efforts are mandated by state through the Minnesota Department of Energy. Minnesota architects have excellent resources available to support their design efforts in this area such as the Underground Space Center at the University of Minnesota and a number of other public and private agencies presently focusing on the problems of energy conservation. This field has more potential for affecting the esthetic of building design than any other. It affords Minnesota architects a unique opportunity to exploit this potential. Based on what has already suited, I predict that our profession in Minnesota will continue to be at the forefront of investigation and implementation of energy conscious design in the coming years.

**Adaptive re-use and historic preservation of existing buildings.** Each year a higher percentage of the total building construction dollar in our state goes into remodeling existing buildings to extend their useful economic life and to restoring buildings of historic significance for the same purpose. This kind of work not only makes great economic sense, but it also represents a very substantial market for architectural services. Here in Minnesota, our architects have done a truly remarkable job in this field. In the upcoming years more and more of this kind of work will become available, representing great opportunities for revitalizing our existing building inventory and contributing to the quality of the built environment in a way that makes economic sense.

**Technological breakthroughs.** Architecture is on the edge of some very significant breakthroughs in the use of technologies previously available to other industries and professions which have application to and will affect the construction industry. The use of laser technology, computer technology, using plastics more extensively, and of course technologies related to energy conservation are but a few that will change the way we do our work and the way our buildings function and look. Individually and as a profession we must keep abreast of these developments so to utilize the potentials for the betterment they represent.

**Consumerism.** Our work as architects has been made difficult by the proliferation of rules, regulations, codes, ordinances and so on that has taken place over the past ten to fifteen years. These were all enacted to protect public safety and health; presumably, they are necessary and beneficent. But they do sometimes impose constraints, inhibit design and add to already inflated construction costs. Each of these constraints represent an important challenge to our inventiveness and resourcefulness in the 1980's and beyond.

Overall, I believe the next ten years will see some profound changes within our profession. These changes that will require each of us to maximize the use of our energy, talent and dedication if we are to make them work for the improvement of the quality of life related to the built environment.
Cramer: What does the architect have to say to the average person who is not in the upper income bracket? What have we done to help that person improve the quality of life?

Parker: That’s a tough question to answer, mainly because it is often difficult to measure the way in which buildings or environments affect the quality of life or an individual’s sense of well-being as specifically related to the environment. However, if it is true that architecture is the mother of the arts and therefore mirrors the state of well-being and the level of civilization of a society, then one might look at our civic and institutional architecture for a clue. Because it is here that all socioeconomic levels of our society can participate and react. They will either feel it contributes positively to their lives or it doesn’t. My personal reaction to the quality of architecture in these building types is that, qualitatively, it is spotty. We have a few really good buildings, a few really bad ones and a great number of mediocre ones.

I suppose the area where architects might have something to say to the less affluent or average income person is in the area of housing. But, unfortunately, for a number of reasons, we have not made significant contributions here. Only a very small percentage of detached single family housing is architect-designed, and most of this is for people of above average income. In multi-unit housing, architects are much more involved; but once again, in my opinion, the qualitative results are spotty.

Presently, the situation is worsened by the extraordinary inflation rate of construction compounded by incredible interest costs. This takes most people of modest income right out of the housing market. As the housing inventory shrinks, relative to demand, pressure for more new housing is building; and this perhaps presents an opportunity for architects to make more of a contribution than they have made in the past. The challenge is to design quality housing environments at a cost affordable by the largest segment of our population. We’ll have to do better in the future than we have in the past to get that formula to work.

Cramer: Isn’t it true that our architects feel their high expectations for quality design can be realized in Minnesota?

Parker: Jim, the spirit of this place has much to do with the exceptional community of architects who live and work here. They are fiercely competitive on the one hand, but friendly and willing to share ideas and information on the other. We really do goad each other and help each other to do better architecture.

Then I believe Minnesota, particularly the Twin City area, has become an extraordinary place for creative, artistic people. Not just for architects, but for those in all areas of art and culture. Stimulation comes through the interaction of the very talented people who are concentrated in this metropolitan area. New York, Chicago, San Francisco all have traditionally been “hot beds” of architectural excitement. Minneapolis-St. Paul I believe is now or will soon be such a place. That’s one of the positive forces that bodes well for the future of Minnesota architecture.

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If we are concerned with human welfare, we cannot denigrate the human desire for meaning and beauty. To make things that are not only useful but have meaning and beauty, is the human enterprise that more than any other, develops the fullness of human life. Our experiences, in great variety and the long history of mankind provide an endless witness to this. So if architects fail in their commitment to the esthetic, the lives of our citizens are diminished, and their welfare is in some degree denied them. And this is why the word "esthetics" appears regularly in registration law paragraphs that seek to define the practice of architecture.

I believe that the word "esthetics", as it is used in these laws, meant to cover two kinds of perception which ought to be the responsibility of an architect, and his gift to the public.

One of these has to do with making structures into meaningful symbols, symbols that can be understood in some degree rationally, symbols which because they are means of communication, serve to bring people together to merge them into a community and break the silence which surrounds each private person. For it is only through symbols that we know each other, and only through knowing each other that we can know ourselves. The art deals in symbols: if he uses good symbols he can help to lift a society of people into a sense of common purpose, hope, and vision. If he uses poor symbols he can further fracture and erode a society and bring it into incoherence and chaos.

People live in a continuum of time. We have our roots in history, we often treasure those roots, and wish to extend our inheritance into our futures. Or we may want to sever them and start afresh. How we deal with our heritage in architecture is a symbol of our sense of history, and to understand this is part of the architect's responsibility.

Architects have also to deal with mathematics. To the architect, mathematics is not only a tool for solving problems, but a way to think about the world. The abstract relationships of numbers, their sequences and sets, the images of geometry, form a body of symbols. Architects have dealt with these things for thousands of years. It is a way of building a relationship between people and the cosmos. The great pyramid, the Parthenon, medi...
fortifications and cathedrals, the jailed city of Peking, and Corbusier’s modular are a few examples. These mathematical forms are not technical solutions to problems; they are symbolic ideas. They belong to architecture because architecture is not simply problem solving, but symbol making.

Architects, for a third example, must deal with ethics, not merely in their business operations, but in their design conceptions and principles. If we were only technicians we would be content to accept any kind of useful imitation, whether false gothic or plastic phantoms. Because we are artists, we know that it is bad for people to surround themselves with the ersatz and the illusionary. So we try to make our works images of authenticity and integrity. This is the artist, dealing responsibly with the metaphysical problem of ethics. People who don’t think this way shouldn’t be trying to practice architecture.

What I have been saying is to a high degree rational. It is the intellectual aspect of esthetics, as the word is used in the law. But there is another part of esthetics, a part that is intuitive, non-rational. It meets us in our feelings, not our minds. It concerns those qualities of order, appropriateness, and style which we perceive and recognize but do not analyze, factor, or synthesize. It is the butterfly we call beauty, the product of sensibility, imagination and hard work. The thing of beauty brings to wonder, even to awe, as we reflect on it. It is the portal to that sense of Mystery, the Mystery that is both horrifying and benign, remote and immediate, the Mystery in which we live and move and have our being, that calls us to our liveliest and noblest selves and brings all humans together.

It is unthinkable that architects should remember their calling and responsibility to beauty, for beauty is their greatest gift to the public welfare.

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Correction: The name of architectural firm Richard Schwarz/Neil Weber was incorrectly printed in the December 1980 issue. We regret this error.
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The Design Services Guide links architects and interior designers with their suppliers of design products and services: commercial artists, graphic designers, galleries, photographers.

The 1981 Guide will appear in our February, April, June, and October issues. Look for the Guide. Use it. And let us know what you think about it:

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ARCHITECTURE MINNESOTA/FEB. 1981

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New prefinished laminated flooring

Snow-Larson, Inc., announces Softscape, a new system of wall and ceiling panels incorporating efficient acoustical materials with handsome,exceptional fabrics to create interior spaces with elegance and imagination. Softscape system, designed to lend beauty to noisy offices, meeting rooms and lobbies, is manufactured by Capaul Ceilings Division of Acoustex Corporation. Snow-Larson has begun marketing a new prefinished, laminated flooring product called Longstrip. Longstrip is a hardwood flooring laminated to a pine core forming a dimensionally stable product with a finish that is roughly twice as durable as urethane. It is made of a unique three-layer construction specially developed to increase life expectancy and reduce the effects of inking and swelling from moisture. Pemagrain's Longstrip planks create a new dimension in wall design for commercial and residential installations because they can be directly applied to structural studs. For more information about the Softscape Longstrip lines, contact Snow-Larson, Inc., 1221 N. Second Avenue, Minneapolis, MN 55405, (612) 374-46.

Contemporary Designs, Inc. offers art services in the area of original graphics, quality paintings, unusual fiber works, unique sculptures, and photographs. The art services department features the works of regional artists as well as internationally known artists. To find out more about this special service offered by Contemporary Designs, contact Sharon Zweibaum, Director Art Services, 612/544-0383.

Hamele Recreation Company, Inc. is now marketing the new Howard R38 series from United Receptacle Corporation. United's Howard Metalcraft Division has worked with architects, municipalities, government agencies, and designers to develop its comprehensive line of litter control devices. The product line includes pole hung and free standing receptacles. Howard Metalcraft products have been specified by architects, landscape architects, and various governmental agencies for applications ranging from shopping malls to patios. For more information, contact Hamele Recreation Company, Inc., P.O. Box 256, 172 Hamel Rd., Hamel, MN 55340, MINN Wats (800) 362-3508; Wisconsin, Iowa, North Dakota, South Dakota Watts (800) 328-3557.

To make the choice between a movable and a demountable wall system for your office building project, contact Sander & Co., Inc., marketers of the Vaughan Wall Movable Partition System in the North Central region. Sander & Co. markets both movable and demountable wall systems for Vaughan. Vaughan Movable Partition System offers several advantages over a demountable option. It is stronger, quieter (no rattling components), and easier to move because it has fewer parts than the standard demountable wall. In addition, movable walls qualify for investment credit and depreciation advantages. Vaughan wall sections are made of solid gypsum and have a one hour fire rating. Sander & Co., Inc. also markets Vaughan acoustical screens and wall panels as well as the Vaughan Plus™ System, which uses the spaces between unitized panels for component-mounting standards ranging from shelving to seating. The Vaughan Walls contractor can install a total interior wall system, relieving the user or specifier of the burden of coordinating as many as a dozen trades. For more information about the Vaughan line of products, contact: Gary Architecture Minnesota/Feb. 1981 101
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Woodmasters Wins Publishers Award

Woodmasters was among the award recipients at the second annual Publishers Design Awards breakfast, held October 3 at L’hôtel de France as part of the 46th Annual MSAIA Convention. The awards were presented to representatives of 15 companies and the advertising agencies for their excellent advertising in Architecture Minnesota. Woodmasters, marketers of high quality custom cabinets for over 25 years, received the award for their full page black & white (June) ad. We regret that we neglected to mention Woodmasters in our December issue article about the awards.

Florock Northwest specializes in industrial, institutional, commercial, and residential flooring systems; scale and coatings for floors and walls; wall systems; and also offers a special coating for ground cover. Florock products have been used for new construction as well as renovation. The company's Super Pebble Stone Flooring System is new to the North Central region, and offers a variety of uses and advantages. Pebble Stone features uniform coating of epoxy, creating a three dimensional bond with the concrete base, and giving the Pebble Stone exterior a greater strength than conventional cement or concrete. Because of this unique quality, one inch of Pebble Stone can be used as aggregate paneling, providing an attractive appearance while not sacrificing strength and durability or weight. Pebble Stone also makes an excellent substitute for concrete while possessing superior strength. New marketing plans for 1981 include the manufacturing of 12 x 18" patio block to be made available for sale at lawn, garden, and nursery outlets. For more information about Pebble Stone or Florock's other product lines, contact: Ted Husom, Floro Northwest, Inc., 2228 W. 94th St., Minneapolis, MN 55431, (612) 884-8453.

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To the readers, advertisers and friends of *Architecture Minnesota*:

Only once in a very great while is a publisher entitled to break the bonds of professional restraint and do a bit of boasting. Such a time has come for all of us at *Architecture Minnesota*. Beyond a doubt, the next issue promises to be the most important we've ever published. Let me tell you why.

Our April issue will celebrate an unusual occasion—namely, the coming to the Twin Cities in May of some 6,500 architects and design professionals who will be attending the 1981 American Institute of Architects Convention. In anticipation of this great gathering, we have been planning and working on the April issue for many months. It will be the biggest and best *Architecture Minnesota* ever. It will be not only a special issue but a major document of lasting value to all who are interested in knowing how the Twin Cities have grown to be such singular urban places. In fact, the April issue will double as the official *AIA Twin Cities Guidebook*, thanks in generous measure to the staff and material support of AIA itself.

Here are a few of the key features you will find in the April *Architecture Minnesota*:

- **Saint Paul: From River Town to Downtown**, by city planner Weiming Lu and others
- **Minneapolis: Urban Perceptions**, by architect and urban planner Thomas H. Hodne, Jr.
- **A Place for Everyone: Twin Cities Neighborhoods**, by Judith Martin
- **Architecture Response in the 1970's**, by architect, former editor of *Architecture Minnesota*, Bernard Jacob

Beyond the content itself, however, we promise a special surprise: *Architecture Minnesota* will have a completely new look. It is now being redesigned from cover to cover, on the sound publishing principle that if we are determined to be a great regional magazine (as we are), then we must look the part of a great magazine. New logo, new display type, new body type, new design treatment of top-notch photography and provocative words: these will be key ingredients in the new *Architecture Minnesota*.

April is only the beginning. We genuinely believe you will find succeeding issues just as rewarding. So rewarding, in fact, that if you have a friend who is a friend of architecture, you'll want to put in a good word for *Architecture Minnesota*.

James P. Cramer
Publisher
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