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The first 25

St. John's the Evangelist Catholic Church, designed in the 1960s by Rafferty Rafferty Tollefson Architects, is this year's recipient of AIA Minnesota's 25 Year Award. The church represents the era's latest thinking in liturgical design by creating an open plan that inspires community involvement. Unlike many newer churches, which often are set back from the community on large lots and surrounded by parking lots, St. John's, seating about 700, is slipped tightly into the neighborhood. Houses surround the church on three sides. The interior, filled with light, further emphasizes community involvement. The narthex is the hub of the church, which leads to the nave, chapel, and other support facilities.

Many buildings deteriorate over time because of flimsy materials. Not here, though. The architects chose materials that are both durable and beautiful, and applied them simply and elegantly.

Walls, inside and out, are brick-masonry, floors are quarry tile and ceilings in the church and chapel are cypress board, while all millwork is dark oak.

It's in the details

Though LaSalle Plaza on Hennepin Avenue in downtown Minneapolis is a large-scale, full-block project that makes a grand gesture to Hennepin Avenue, it also has its quiet side. It's that quiet, subtle side to the interior railings that won this year's AIA Minnesota Divine Detail award. The railings repeat the curved form used in the overall project to express water. A stainless-steel blade floats within the center of each rail, signifying the intersection of Hennepin Avenue to the city's grid. A cherry top lends warmth in contrast to the metal.

Art on CD

ARTISTAVENUE allows art connoisseurs to survey more than 130 artists and their works on CD-ROM. With nearly 800 images representing small minimal prints to a canvas originally housed in Moscow's Tretyakov Gallery, this is the first electronic catalog geared toward the purchase of art. Represented artists are from around the world, from Beijing to Grand Rapids, Mich. The CD is published by K Street Systems, Denver.
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Eco-design charrette

With the environment all the buzz in the design industry today, Minneapolis’s architectural community is also getting in on the act. Approximately 90 architects and related design professionals, students, members of the Phillips neighborhood, and interested participants gathered this fall to brainstorm ideas for a new Eco-Industrial Park for the Green Institute. This nonprofit organization is devoted to creating community-based models to protect the natural and urban environments through education and sustainable economic development.

The Eco-Industrial Park, to be located just east of Hiawatha Avenue between 28th and 29th streets, will include a business incubator for environmentally responsible businesses, and environmental-education center, materials-exchange and reuse center, and offices for nonprofit environmental advocacy groups. The Eco-Industrial Park is intended to create jobs through appropriate technology, solid-waste reduction and energy conservation.

Proposals touched on various solutions. Some suggested restoring the urban fabric of site and weaving the new facility into the existing urban grid, while others viewed the site as a distinct feature within the Phillips neighborhood. Suggestions included underground construction to leave the site as a community park; a Habitat for Humanity eco-village of small-scale industrial, commercial and residential structures; and a series of interior and exterior rooms that could expand or contract based on needs.

The environmental design charrette, one of 19 occurring the same weekend in early October throughout the country, was sponsored by the national AIA Committee on the Environment. Local sponsors included the Green Institute, the Minneapolis chapter of C.O.T.E., and the College of Architecture and Landscape Architecture at the University of Minnesota.

Hot off the presses

In City Life: Urban Expectations in a New World, author Witold Rybczynski says “Our cities are definitely not like Paris. But then what are they like? And how did they get that way?” Rybczynski explores these questions by tracing how American cities developed. “This is a book about cities as they are, not as they might be. It’s also about our cities’ evolution, for I’m convinced that our undistinguished record of the last 50 years of building cities and towns stems at least in part from a willful ignorance of our urban past,” the author writes. Stretching across the country from New York, Philadelphia and Boston, to Chicago, Los Angeles and San Francisco, the book discusses how cities acquired their unique identities and reflect American concerns and lifestyles. Rybczynski, who has written numerous architecturally related books and magazine articles, is a professor of urbanism at the University of Pennsylvania. City Life is published by Charles Scribner’s Sons, New York.

Building Sex: Men, Women, Architecture, and the Construction of Sexuality, by Aaron Betsky, traces the history of architecture as a male-dominated endeavor. Betsky writes, “We live in a strangely and unequally divided world. Our man-made world was made by men. Men founded our cities and designed the buildings in them. Men decided what the world we travel through every day was going to look like, and men decided what the streets would look like. Men planned, designed, built, and ran the towns, suburbs and cities we live in. Where were women during all this? They were the ones who made this world livable. They made the homes comfortable and the streets places of activity. Women brought up the children and cared for the old. They made the grand plans of men real within a framework that contained and imprisoned them.” Betsky is curator of architecture and design at the San Francisco Museum of Modern Art. Building Sex is published by William Morrow & Co., Inc., New York.
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University of Minnesota
Minneapolis
Jan. 12–March 17

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Winter Salon
Mixed Media By Gallery Artists
Circa Gallery
Minneapolis
Through January

Circa’s salons, initiated three years ago, offer an opportunity for the gallery’s represented artists to display their work in an informal atmosphere that encourages interaction and appreciation of the different media explored. The regionally based artists work within a diverse range, from furniture to ceramic, print, and more.

For additional information about the featured artists, call Circa at (612) 332-2386.

Winter Book Marks
Carolyn Ruff Gallery
Minneapolis
Jan. 13–Feb. 17

Books come alive with this new exhibit featuring artists Siah Armajani, Virginia Bradley and Paul Clifford in collaboration, Diane Katsiavicas and Thomas Rose. With a literary bent, they present small works which are based on books, utilize books or are books.

For more information, call (612) 338-8052.

Prairie School Collaborators:
Frank Lloyd Wright and George Mann Niedecken
Milwaukee Art Museum
Through Feb. 4, 1996

This exhibit examines the working relationship between Wright and interior designer Niedecken, who collaborated with Wright from 1904 to 1918. Niedecken created custom furniture, lighting fixtures, rugs and murals that harmonized with Wright’s Prairie-style houses. The exhibit examines the design process the two employed in five commissions spanning a decade, with 75 drawings for furniture, rugs, murals and interior decoration, along with actual objects fabricated from these designs.

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National Building Museum
Washington, D.C.
Through March 17

In the aftermath of the April 19 bombing of the Alfred P. Murrah Federal Building in Oklahoma City and the widespread destruction of the north downtown area, this exhibit examines the community's mobilization toward renewal. Organized into different sections highlighting the city's past, present and future, 'We Will Be Back' looks at Oklahoma City's origins in 1889 on the prairie and continues through recent development. Television and newspaper clips focus on the devastating impact of the bombing, while video interviews with city officials and residents discuss the rebuilding process.

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Harrison Fraker

Passing along a venerable tradition at the University of Minnesota's College of Architecture and Landscape Architecture, Harrison Fraker heads for a new post at Berkeley.

Interview by Bruce N. Wright

For more than 10 years Harrison Fraker has presided over his work like a master chef supervising the production of haute cuisine in the kitchen of a four-star restaurant. A bit of this, a pinch of that; stir up this pot and cool down that one, et voilà! A new creation is born. Only for Fraker, his kitchen is the College of Architecture and Landscape Architecture (CALA) at the University of Minnesota, and his creations are the 600-plus architecture and landscape-architecture students who work their way through the design program on the university's Minneapolis campus. Like a chef, Fraker knows that every dish concocted starts with a good recipe.

Since 1984, when he arrived from Princeton University's Architecture School—where he taught alongside such design heavyweights as Peter Eisenman, Michael Graves and Jean L'Abbateux—to take over the head of the School of Architecture and Landscape Architecture after Ralph Rapson's retirement, Fraker has constantly tinkered with the recipe for a school of design. Within two years of his arrival, Fraker had created the Design Center for the American Urban Landscape, and coaxed away from sunny California the dynamic duo William Morrish and Catherine Brown to head the center. Morrish and Brown were described in a New York Times article as "the most valuable thinkers in American urbanism today."

By 1989, Fraker had successfully maneuvered the school out from under the umbrella of the Institute of Technology into becoming an independent professional college (CALA). And Fraker appointed himself dean. Fraker is no slouch. The list of his accomplishments runs more than 40 pages. He has received a National Endowment for the Arts Design Fellowship, three national solar design awards and a Progressive Architecture citation for applied research in teaching passive-solar design in architecture. He's received several citations for design excellence, an AIA Minnesota Honor Award for his design of a residence on Lake Minnetonka, and second place (out of 400 entries) in the Evanston, Ill., Public Library national design competition.

His changes to the curricula at CALA have been major and numerous, enough to pull the master's program in architecture up to a well-respected sixth among public universities and 13th among all universities.

But now that the recipe has been refined and things are simmering along quite nicely, Fraker is moving on. He begins another cooking project in January 1996 as the dean of the College of Environmental Design at the University of California at Berkeley. Architecture Minnesota caught Fraker during a rare stationary moment in his office in the Architecture Building on the Minneapolis campus of the University of Minnesota as he began the process of handing over the spatula to CALA's numerous and quite capable sous-chefs.

Architecture Minnesota: What motivated you to go into architecture in the first place?

Harrison Fraker: I suppose it would be a number of experiences in my youth. I built a number of elaborate electric-train setups with my father right up into my teens. And I raced sailboats from the time I was a teenager until I went to college, even into college.

For a while I thought I might be a sailboat designer and designed a number of sailboats. I designed a 12-meter boat when I was 16 years old. I actually built a 1-meter model of the boat and sailed it. I've always been fascinated about the way things are made and work. I knew when I went to college that if I wasn't going to major in English I would explore architecture. I've always been good at technical things, and it's been relatively easy for me to do math and physics.

While I was at Princeton I had a sort of epiphany on Earth Day [1972] and said to myself, we need to better understand how buildings interact with their environment and we need to design for that. I discovered that we had lost all kinds of practical wisdoms that were based on good science and good research. I really devoted 10 years of my professional career to developing...
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Cross roads

From prehistoric caves to contemporary urban skyscrapers, architecture has evolved along a curve that presents ever-greater social and business challenges for each new generation of architects

By Janet Whitmore

In the last 15 years, the architectural profession has faced myriad challenges posed by new technology, economic freefall and vigorous social change. With this article, Architecture Minnesota begins a series about the challenges, opportunities and problems that architects face today. Future articles will look at such issues as the design-build process, computer-aided design and community leadership.

The need for shelter and the desire to design it is as old as humanity. In the prehistoric caves of southern France, we find sacred paintings decorating the walls. In the earliest archaeological records at Ur and Mohenjo-Daro, we find traces of planned communities and a clear intention to design and build a specific type of architecture. The sophistication of these developments often surprises us, and yet they might also be viewed as evidence that the social need for intelligent, responsive design is basic to our species.

An historical overview of the architect’s role reveals that four basic types of architect have been at work: the architectural team: the theoretical architect; the gentleman architect: and the solitary eccentric architect.

The first type, the architectural team, is probably the oldest. In fact, that epitome of traditional Western culture, the Parthenon, was the team creation of Pericles, Ictinus and Phidias—client, architect and sculptor, respectively. Two thousand years later, the same team concept produced Versailles, Le Vaux, Le Notre, Le Brun and Louis XIV formed a formidable and interactive team, turning a dreary, swampy estate into the center of European culture for almost 200 years.

The second type of architect, the theoretician, also springs from Greek culture, but it is the Roman Vitruvius who really begins the tradition of the architectural theorist as writer. His comments on “firmness, commodity and delight” still carry meaning today. Vitruvius’s theoretical musings reappeared during the Italian Renaissance in the writings of the Florentine architect Alberti, and perhaps most remarkably in Palladio’s Four Books of Architecture. This writing has influenced architectural design throughout Western civilization, from London to colonial Virginia. Each time the classical trend emerges, whether it’s 16th-century France or 20th-century America, Palladio’s work again becomes a touchstone, a reference point and a guide.

In contrast, the gentleman architect no longer exists in our increasingly compartmentalized, specialized society. The gentleman architect is more of an armchair architect who is not trained or necessarily employed as an architect. But his interest and dedication to architecture are far-reaching. Think of Thomas Jefferson of yesteryear or the Prince of Wales today. They are both classic examples of gentlemen architects. Yet in today’s world, Thomas Jefferson would not be allowed to build Monticello or the University of Virginia until a registered architect approved the design. And with the possible exception of Prince Charles, there are few individuals who can afford to take an active role in contemporary architecture unless they are qualified to make a living by doing so.

The solitary eccentric architect, so well embodied by Howard Roark in Ayn Rand’s novel The Fountainhead, reflects the modern concept of the avant-garde. This particular model for architects appeared in the late-19th century, at least 75 years after the solitary eccentric type emerged in painting, literature and music. In the United States, this model has been a mixed blessing. It supports the notion that a single individual, such as Louis Sullivan or Frank Lloyd Wright, can and should follow their own vision to the exclusion of the nay-sayers and Philistines of the time. However, it also supports the unfortunate perception that architects are unresponsive egotists who are incapable of listening to their clients or designing a functional building.

The reality of architectural practice today is that it requires four to six years of education, a three-year period of apprenticeship, passage of a national registration exam, licensure, and finally the patience and perseverance to learn all the business practices that weren’t taught in architecture school.

Xerxes Architects, founded in 1991, exemplifies the complexity and challenge of practicing architecture in the late-20th century. The three founding partners, Gregory Carroll, Rolf Haarstad and Kathleen Lechleiter, assume a wide range of responsibilities that they did not anticipate during their years of formal education. As Haarstad says, “We were typical architecture graduates with no business background. But we also were fortunate to have worked with a large East Coast firm where we had the opportunity to learn about the complexity of architectural practice. Not everyone becomes a designer. Lots of people become project managers or business specialists.”

Continued on page 61
U.S. Department of Agriculture
Northern Crop Research Center, Fargo, ND
"We wanted...(the structure) to tie into other buildings at the University, so we used a color of brick found on the adjacent structure, plus two other colors predominant on campus. The patterning of the brick draws from the Scandinavian tradition of enlivening utilitarian structures with color and pattern, creating visual interest during the long northern winters."
- Loren Ahles, AIA, Project Designer
- Hammel, Green and Abrahamson, Inc., Minneapolis
Photography: Tom Hlavaty

Burnsville Marketplace – Burnsville, MN
"Brick was chosen as the primary facing material...for all the long established, practical advantages; durability, low maintenance and cost effectiveness. Equally important...were the major aesthetic benefits...Brick was consistent with the surrounding context. The inherent design flexibility of unit masonry coupled with the available ranges of color and texture ensured us that Burnsville Marketplace would indeed age with interest."
- John Gould, AIA, Director of Design
- KKE Architects, Inc., Minneapolis
Photography: Lea Babcock

Bailey Elementary School
- South Washington County Schools, ISD 833,
Dan Hoke, Superintendent
"Brick brought the appropriate scale to this building for a sense of strength and warmth. Its color provides a pleasing contrast to the brightly colored steel elements, and its long-term durability adds value."
- James Rydeen, FAIA, President
- Armstrong, Toseth, Shold and Rydeen, Inc., Minneapolis
Photography: Ralph Berlowitz

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Architecture comes in many forms. A look at this year’s Honor Awards, featured this issue, illustrates the diverse nature of Minnesota design.

Seven projects won awards: the Minnesota Children’s Museum by James/Snow Architects and Architectural Alliance (featured November/December 1995); the Origen Center, also by James/Snow Architects; the Knox Garden by Loom; the Cowles Farmhouse by Meyer, Scherer & Rockcastle; the Limestone Municipal Transit Hub by Ellerbe Becket; the Conceptual River Corridor Plan by Scott Wende Architects; and the Carlson Outbuildings by Salmela Architect. This year’s jurors—Mark Mack of Mack Architects, Venice, Calif.; Laurie Hawkinson of Smith-Miller and Hawkinson Architects, New York; and Frederick Bland of Beyer Blinder Belle, New York—pulled the winners from 102 submissions.

Whenever a group of projects wins awards, we seek to identify common traits. We look for architectural threads that define Minnesota design, architectural characteristics that can’t be found in other states. On the surface, these projects have little in common. One winner is a pair of utilitarian outbuildings in northern Wisconsin, another is a parking garage in downtown Minneapolis, and a third is a colorful museum in an urban setting.

Yet while functionally quite different from each other, several projects share an attitude or approach to design. Take the Knox Garden and the Conceptual River Corridor Plan, for instance. Both seem unlikely winners: They are not particularly glamorous or glitzy. What distinguishes these two is their grass-roots method to design. Both represent community involvement, people taking charge of their neighborhoods. Numerous neighborhood groups participated in the development of the river plan. And those same groups will need the collective will and drive to convert these urban-design concepts into reality. The Knox Garden arose from similar community efforts. Here volunteers rolled up their sleeves and transformed an abandoned lot in north Minneapolis into a garden for children and adults alike. Rather than sitting around and waiting for City Hall to fix the blight, the neighbors fixed it themselves.

Other winning projects also speak of community. The Origen Center, built by a large corporation, is a democratic building. Origen is designed and planned to encourage interaction between different divisions. Here hierarchy is thrown out the window. All who use the building are equal. The Children’s Museum, too, is a place for shared activities and equality. With its range of educational exhibits, the museum is a metro-wide and state-wide playground where children from all neighborhoods are invited.

As this year’s winners indicate, when a community comes together positive solutions result.

Community roots
If you know northern Minnesota, then you know Duluth. And if you know Duluth, then you know Superior Street. Since the 19th century, Superior Street has carried on as the city’s principal thoroughfare, surviving fits of boom and bust. The retail scene has been eclipsed by the Miller Hill Mall “over the hill,” but history lingers on. Superior Street is home to more than six turn-of-the-century buildings; Hennepin Avenue in Minneapolis can claim only one. Of course, when Daniel Greysolon Sieur du Lhut passed through the Lake Superior area in 1679, visions of great architecture were far in the future. For the next 100 years Duluth remained an undiscovered hinterland, until the British Northwest Company established a trading post in 1793. Still, development was slow. In 1857 “du Lhut” incorporated itself as Duluth. Two years later, a Federal Land Office opened shop and eager investors soon discovered the city’s potential. Duluth is a Chicago at the head of the Lakes,” proclaimed Jay Cooke of Philadelphia in 1868. One year later, Cooke established Duluth’s first bank. Commerce was born. And the Northern Pacific Railroad followed. By 1872, Superior Street had emerged as Duluth’s principal business district. Mule-driven streetcars appeared in 1883. And in 1887, the architectural firms of McMillen and Stebbins, and Wirth and Traphagen were formed to help shape the “metropolis of the Northwest.” The best way to understand Superior Street’s architecture is on foot. So bundle up and carry this article along.

If architecture is a barometer of a city’s economic and cultural success, then the inflationary and recessionary 1970s were not kind to Duluth and its treasured Superior Street. Indeed, the 1970 Radisson Hotel by William Tabler at 505 West resembles a Duracell™ battery. Even though the brick-clad structure pushes the envelope of good taste, the hotel is a familiar icon on Duluth’s cityscape, as well as a beloved testament to modern kitsch. The rooftop revolving restaurant and cocktail lounge are fabulous.

Modern architecture redeems itself in Gunnar Birkerts celebrated design for the Duluth Public Library. Opened in 1980, the civic building evokes images of sailing ships, a perfect metaphor for northern Minnesota’s premier city. To further the

BY DAVID ANGER

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oceanliner motif, Birkerts offered several moderne touches, including the building’s rounded front and chrome decorative elements.

Continue along the southern side of Superior Street to the central business district. Between Fourth and Third avenues West stand three architecturally significant buildings: the Medical Arts Office, Torrey and Alworth buildings.

The first stop at 324 West is the Medical Arts Office Building of 1933. Stepped-back in art-deco fashion, the 12-story steel skeleton is the brainchild of Duluth architect Ernest Erickson. It is a familiar design, recalling St. Paul’s heroic city hall with perpendicular windows gracing a cold, smooth skin of white stone. In addition, it is one of the few examples of art deco in the city. However, this building is localized by the stylized sculpted heads of Native Americans that are visible from the street. Erickson moved to Evanston, Ill., where he designed, among other things, apartments along Lake Shore Drive.

Next door is the Torrey Building, dating from 1892. The product of the Duluth architectural duo of Traphagen and Fitzpatrick, the 11-story structure was the city’s tallest building until 1910. It incorporating, one that dwarfs the Tower of Babel to a mere cottage in comparison.” Complete with 275 offices carried on steel beams, columns and girders, the $500,000 Alworth Building was properly identified as “an epoch in the architectural legacy of Duluth.”

For a calorie-heavy yet delicious lunch stop by Mr. Nick’s Famous Charburgers at 220 bay window on the second floor enlivens the façade, while allowing light into an otherwise bleak flat. Joy Kops Gallery at 32 East (218-722-0831) showcases Duluth and Northern Minnesota artists, including gallery owner Jay Kops’ own art furniture. Exhibitions change regularly.

After crossing First Avenue East, walk toward the turn-of-the-century C.H. Oppel Block at 115 East. It can’t be missed—the owner’s name is carved in relief above the third floor. Attributed to the opus of Traphagen, the 1885 building housed a general store and was topped by two levels of apartments. The Richardsonian Romanesque influence is evident in the busy brick and stone work. The Old City Hall and Jail, one of Traphagen’s first commissions, can be found across the street at 126 East. After Duluth’s government was rechartered in 1887, the city needed a new headquarters. In 1889, this building of soft sandstone and spacious windows was realized. Wonder.
Exploring Duluth’s Superior Street by foot reveals a city rich in architectural history

Avenue East discover one of Duluth’s most celebrated buildings: Masonic Temple Opera Building. For a sum of $200,000 the Duluth architectural firm of McMillen and Stebbins watched its bizarre mix of Moorish and Romanesque ideas rise in 1889. Sitting atop the building’s corner stood a Moorish-style cupola. The towering 5-story structure housed the Masonic Lodge, among other things. When passions for the Romanesque plummeted, building owner G.G. Hartley chopped off the upper three stories so that the building would not compete with the classic purity of the new Orpheum Theater.

Kaplan’s 1939 contribution to the city. Take a short jog up Second Avenue East to study the Orpheum Theater of 1910, which was designed by J.E.O. Pridmore of Chicago in the Greco-Roman architectural ethos.

Self-made iron man George Crosby led a citizen’s committee to build the impressive Hotel Duluth at 227 East. When Duluth's population peaked at 113,754 in the 1920s, this palace could compete with the best in Minneapolis, Chicago and beyond. The $2.4 million project boasted 500 rooms as well as steel and reinforced-concrete construction. Architecturally, the building reflects the eclectic fashion of the day. For instance, the management described the hotel as possessing a “thoroughly Italian Renaissance” lobby, leading to a “typical Spanish dining room.”

Overnight guests are no longer welcome here, but long-term residents make it home.

Everyone knows about the spirited medieval landmark at 600 East called Fitger’s Brewery, which is a must see. Designed by the Duluth architectural duo of Trapagen and Fitzpatrick, and completed in 1890, the building’s surface is of Lake Superior black basalt. In addition, small windows endow the place with a castlelike appeal. Nowadays, it is home to a first-rate hotel and restaurant.

To rest weary feet and warm hearts, stop for a microbeer at Fitger’s Brewhouse.

Our walk concludes outside the Kitchi Gammi Club at 831 East, which marked Goodhue’s architectural debut in Duluth. When Goodhue unveiled his design for the $300,000 edifice, senior members of his New York firm winced. The architect broke with the firm’s dogmatic Gothicism by simplifying decoration. Goodhue also added such elements as Georgian pilasters and Tudor details. Still a favorite haunt of Duluth’s establishment for wedding receptions and business gatherings, everyone enjoys the club’s union of traditional metal, wood and stone handicrafts. A rare find, indeed.

next door. Yet much of the stone and detailing remain, including the street’s most impressive entryways.

Next door to the Opera building at 211 East stands the Nor Shor Theater. The art-deco façade is Liebenberg and peaked at 113,754 in the 1920s, this palace could compete with the best in Minneapolis, Chicago and beyond. The $2.4 million project boasted 500 rooms as well as steel and reinforced-concrete construction. Architecturally, the building reflects the eclectic fashion of the day. For instance, the management described the hotel as possessing a “thoroughly Italian Renaissance” lobby, leading to a “typical Spanish dining room.”

(218-726-1392), featuring libations and ciders.

The simple Northwestern Oil Company at 706 East was built in 1921. The gasoline station was conceived as part of the “City Beautiful” movement. Unfortunately, the building lost much of its cache when the dramatic cantilevered canopy—supported by Art Nouveau ironwork—was removed.

New York architect Bertram Goodhue designed Dewey’s architectural debut in Duluth. When Goodhue unveiled his design for the $300,000 edifice, senior members of his New York firm winced. The architect broke with the firm’s dogmatic Gothicism by simplifying decoration. Goodhue also added such elements as Georgian pilasters and Tudor details. Still a favorite haunt of Duluth’s establishment for wedding receptions and business gatherings, everyone enjoys the club’s union of traditional metal, wood and stone handicrafts. A rare find, indeed.
Duluth Sketchbook

Duluth artist Robb Quisling, initially focusing on portraits, has expanded his aesthetic gaze to Duluth's architectural landscape for new inspiration. "I find that many of our local structures have their own personalities, as reflected in their distinct designs and unique historical stories," he says. His drawings are made from wax crayon, litho-crayon, black oil pencil and china marker. He then tints the prints with oil pastels and oil pencils, made transparent with a turpentine wash.

Old Duluth Central High School
Lake Avenue and Second Street
Architects: Emmet S. Palmer and Lucien P. Hall
1892

Apartment Building
214 East Fourth Street
Architect: John Wengenstein with Olav Roen
1890

Duluth's First Jail
126 East Superior Street
Architect: Oliver G. Trophagen
1889

Apartment Building
301-307 East Third Street
Architects: Oliver G. Trophagen and Frances W. Fitzpatrick
Since twilight I’ve been reading by oil lamp, tucked into a creaky wood bed warmed by a handmade quilt and buffalo robe. Retiring meadowlarks and killdeer have quit their lullabies. Evening breezes that tickled dry grass stems peeping from between window frames are still. In the country quiet, the earthen walls and roof sheltering me issue a reassuring permanence that belies a lost history, the lack of similar structures nearby. I leave my bed for one last trip to the outhouse. Pulling open the heavy plank door reveals a celestial sight: fireflies spark the night sky, lighting my way as I walk through big bluestem damp with light rain. Looking over my shoulder, the one-room sod house in which I’m staying rises organically from the landscape—long, squat and sturdy—like a small aberration.

No, I’m not aping Laura Ingalls Wilder, author of Little House on the Prairie and other books about pioneer sodhouse living in the Midwest. I’m describing a night’s stay at the McCones’ sod house on the Prairie, an 1880s-era reconstruction of a “rich-man’s soddy” that’s both a museum and a bed and breakfast. A few yards away from this sod house sits a reconstruction of a “poor-man’s dugout” as well, open for visiting only. Both sods are their own sod outhouses and are surrounded by restored prairie. At one time, “within a 5-mile radius of this spot,” reads the plaque outside the dugout, “stood at least 10 sod houses or dugouts.”

One hundred years after sod houses were a familiar sight on the prairie, Stan and Virginia McCones and family constructed these soddies on their rural property near Sanborn in southwestern Minnesota. The area, once part of the tallgrass prairie that stretched from Canada through western Minnesota to Oklahoma, is now a farmland vista of cornfields, crop sprayers and silos.

“Their names have been forgotten, their homes have vanished, their native prairie is gone,” says Stan McCon of the pioneers. “We hope people will remember them as they visit our sod houses, and appreciate who they were and how they lived.” Part entrepreneurial enterprise, part homage to America’s pioneer farmers or sod-busters, the McCones’ venture is also a tribute to an oft-forgotten form of frontier architecture.

Fortified with Thomas Jefferson’s dream of agrarian democracy and their 160-acres per yeoman farmer, the settlers ventured west during the late 1800s. When they reached the edge of the eastern forests through which they’d been traveling, they were shocked by the treeless grassland that stretched endlessly before them. The pioneers were knowledgeable in such traditional home-building techniques as stone, brick, log and sometimes timber-frame. But on their claims in Nebraska, Colorado, Texas, Oklahoma, the Dakotas, western Kansas and southwestern Minnesota, the only building material present was sod (aside from cottonwoods lining scarce streams and ponds, and the occasional prairie-fire-resistant oak). A bonus for cash-poor pioneers, sod was also free.

Initially, some settlers simply dug caves out of rises in the earth or the sides of small hills. Eventually, they learned that the root-tangled prairie sod (half a square meter of big-bluestem sod may contain 13 miles of rootlets) could be cut into building blocks. Some dug out a hillside for a back or side wall, or dug a pit in the ground, and con-
structed the remaining walls from sod bricks. How they realized the benefits of sod is uncertain, but what we now call earth-sheltered housing has existed in human communities from prehistory through the present.

“It’s possible the sod house came to the prairie as the tribal style which the Indo-European migrants had brought from the treeless steppes of central Asia. It has been used for millennia in those regions...” writes Roger Kennedy in his book, *Minnesota Houses: An Architectural & Historical View*. Consider, also, that Native Americans have carved or built homes out of the earth for centuries: Eskimo igloos, Pueblo kivas, the ancient Indian cliff palace at Mesa Verde. “The earth lodges of the Omaha Indians may have inspired the Mormons in building Nebraska’s first sod houses,” writes Roger L. Welsch in his book *Sod Walls: The Story of the Nebraska Sod House*. Throughout the Great Plains, the Mandan, Pawnee and Arikaree Indians also built dome-like earth houses.

Whatever the inspiration, from the mid-1800s through the early 20th century, settlers taught each other to build sod houses. Always considered temporary housing (the prelude to a “real” timber-frame house), even when lived in for a decade or more, sodsies more than met the climatic, geographic and sociologic perils of pioneer life. The soddy’s thick walls and roof insulated against intense summer heat, winter’s bitter cold and harsh winds. Sod stopped arrows and bullets. And sod houses frequently withstood tornadoes and prairie fire.

However, sod houses posed perils of their own. If a family could not afford to line their sod roof with tar paper, leaks would continue days after a hard rain. Because of their weight, roofs required substantial wooden support; builders who skimmed in this area might end up with tons of soggy sod collapsing on them. Unfinished interior walls and ceilings housed snakes, rodents and bugs that found their way into bedding or dropped on people’s heads. Unplanked dirt floors—despite being tamped to a concrete-like hardness—turned to mud during rain. Cows with itchy backs, having no trees to rub up against, found so-

lace on the corners of a sod house. Buffalo or night travelers, unaware that they were passing over a dugout built into a hillside, might unwittingly cause a roof to cave in.

Nonetheless, in addition to houses, settlers built businesses, churches, schools, barns, corrals, even dog houses out of sod. “The sod house, since it was folk architecture, displayed great variety.” Welsch writes. Many factors determined style, including site, tool availability, and money to buy wood, shingles, windows and hardware; the number of family members; needs of livestock or other business; and the time of year. Most houses were simple rectangles facing south, one wall lined up with the North Star. L-floor and T-floor plans, even round houses could be found. “In the 1860s, 1870s, and even later, western Minnesota was dotted with sod houses of various types and sizes,” reports Merrill E. Jarcho in his book, *The Earth Brought Forth*.

Today no original sod houses or dugouts exist in Minnesota. Only depressions or indentations may remain—like the outline of the sod dugout, immortalized by Wilder in her book, near Walnut Grove, Minn. The grainy photographs of Solomon Devoe Butcher and others, as well as oral histories collected in various texts, piece together a picture of early settlement architecture on the prairie. But for a real sense of sod-house living, nothing beats a stay in the McCones’ soddy.

In the summer of 1987 Stan McConé, a descendent of homesteaders, began constructing a sod house in the manner of his forefathers. He found a low-lying area of virgin prairie and, with the owner’s permission, began cutting the sod with a modified modern grass-sod cutter pulled behind a tractor. (Pioneers developed a butterfly plow for cutting prairie sod, which was pulled by a team of oxen or horses.) The sod was cut in 1-foot-wide strips, 4 to 6 inches thick, and later sectioned into 2-foot blocks. Pulling the root-tangled sod from the earth sounded like “the ripping of a giant canvas.” McConé says. The sod was piled on a wagon (homesteaders in another state called their sod bricks “Nebraska marble”), and transported to the site.

Rows of sod blocks were staggered on top of each other in the manner of bricklay-
The Origen Center, designed by James/Snow Architects in rural Wisconsin, is a gleaming piece of modernist architecture. The building’s beauty is derived from a crystal-clear expression of its structural form and function. As one honor-award juror noted while praising the building, less, plus a little extra, is more.

Julie Snow, formerly of James/Snow Architects and now working independently, has designed several facilities for Phillips Plastics Corporation. In addition, she received an AIA Minnesota Honor Award in 1990 for the corporation’s Short Run plant near New Richmond, Wisconsin.

The Origen Center, the architect says, “continues the ongoing exploration of the relationship between the structure and the skin.”

By Eric Kudalis
At night, the Ongen Center is a beacon on the prairie, with the roof seemingly floating above the structure.

A grid-patterned overhang shields the main entrance.

With many floor-to-ceiling windows, transparency is at the core of the building.
A division of labor finds common ground in this industrial building

Here the skin is a veneer that functions simply as enclosure. “Opacity, translucency and transparency, as well as the operation of the window units, become the dominant expression,” the architect says. “The skin is a taut wrapper, transparent through the structure. Structural information is expressed on the exterior by the transparency of the curtain wall to the structure within.”

Although glass and aluminum framing are dominant materials, the architects soften the façade with cedar and cut granite. Thus this is modernism, but modernism with a heart.

Phillips, which produces highly engineered plastics, conceived the Center as a place for the exchange of manufacturing ideas and expertise, in which a manufacturing training center, a start-up manufacturing-production facility, and an incubator for new businesses combine in a single building. All three divisions—laid out along a 468-foot-long, 12-foot-wide corridor—are separate from each other. Yet common areas—dining, conference rooms, copy center—are shared by all three divisions to encourage interaction. The fact that the functions share a hall also brings people together in casual encounters and conversations.

The interior is light-infused; exterior and interior become one. The reception desk stands at the center of the building, sandwiched between a glass wall and glass entry. Walking along the glass-enclosed main east-west corridor, you alternate visually between interior and exterior views. Even interior rooms are filled with light, such as in production and manufacturing rooms where the sun enters from the clerestories, making the metal ceiling seem to float above the rooms.

As the seasons change, the interplay of daylight on architecture changes. The users’ workday is engaged by the evolution in light and views between inside and outside. This is architecture in which separation and connection dance along the same line.

HONOR AWARD
Origen Center
Menomonie, Wis.
James/Snow Architects
This conceptual project represents one of the rare occasions that an urban-design plan has won an AIA Minnesota Honor Award. Because the Mississippi River, the fuel of Minneapolis-St. Paul's original economic growth, is tied closely to the city's identity, it seems appropriate that the plan should win for identifying the next wave of urban growth. The Mississippi Corridor Neighborhood Coalition plan looks at the river's potential for real growth by examining the existing land use, improving river access for the neighborhoods, and combining these elements for redevelopment and improvements.
On the river

A new urban-design plan looks at the Mississippi River as a place for community-involved growth and development

Perhaps what makes this plan different from other urban-design frameworks is its grass-roots approach. Numerous public meetings led to its development. The Mississippi Corridor Neighborhood Coalition comprises Bottineau Citizens in Action and 11 neighborhood organizations along the upper Mississippi River corridor, from Hennepin Avenue and Nicollet Island to the city limits on the north.

The final report provides a conceptual plan and implementation steps for the neighborhoods. Strategies and potential projects are suggested for individual and collective neighborhood approaches to utilizing the river.

Suggestions include redeveloping some land for parks, pedestrian and bike trails; building a variety of low-rise housing types; enhancing lateral neighborhood connections with landscaping and lighting that would create a sense of entrance to the river; encouraging neighborhood-based commercial enterprises; and implementing neighborhood gateways.

The plan also cautions that certain hurdles must be overcome if any of the ideas are to reach fruition. First, the city needs to change its outdated perspective of the river as an industrial region. The city must recognize the river as a civic place that can help revitalize neighborhoods. Also, the plan advises that the city of Minneapolis, State of Minnesota and Federal government view the river as a national resource exempt from the fickle mood of politics. In addition, the city and the neighborhoods should muster the political will to promote the suggested changes, so that neighborhoods have influence in shaping public policy and revising outdated zoning and development policies.

The Conceptual River Corridor Plan, having laid some groundwork for future growth, is only the beginning. E.K.
Two outbuildings rise above pure function through simplicity and craftsmanship
Scandinavian echoes

The Carlson outbuildings in northern Wisconsin are more than the sum of their parts. The clients, whose summer home is an old farmstead beside a lake, asked for a storage shed for the property’s large maintenance equipment as well as a workshop for repairs and construction hobbies. A builder suggested a standard metal shed—a ubiquitous structure along rural highways that certainly gets the job done. The clients wanted more than pure function though, and hired David Salmela of Duluth.

Salmela has become a perennial favorite at the AIA Minnesota Honor Awards, having taken trophies for his firm’s work several years running. A look at these two outbuildings, set at right angles to each other, shows why. No job is too small for Salmela. Whether designing a Finnish-inspired house in suburban Minneapolis or a getaway cabin in northern Minnesota, Salmela applies a steady design hand that emphasizes a Scandinavian-influenced concern for detailing, materials, craftsmanship and simplicity.

Here each cedar-sided building measures 15 feet by 48 feet, one painted a deep blue, the other a deep red, both with white-trimmed windows. By placing them at right angles, Salmela created a courtyard that faces the lake and original farmhouse, a traditional white-sided house with a Dutch-style roof. The courtyard, then, can be used for multiple functions as it maintains a visible connection between the house and secondary buildings. A portico at the shop’s west end further establishes the open connection between the outbuildings and the house and yard.

Interiors for both buildings are fairly straightforward, with their whitewashed walls, concrete floors, exposed framing and trusses. A large overhead door divides the shop in two: an insulated side with a double-gabled ceiling, and a noninsulated side with an exposed-truss ceiling. When the door is raised, the shop becomes one pavilion. The noninsulated equipment building is essentially a single open space. Vehicles for both buildings enter from the back sides, which abut the woods.

E.K.

HONOR AWARD
Carlson Outbuildings
Northern Wisconsin
Salmela Architect
The Knox Garden in north Minneapolis is a successful example of community members working together to improve—however modestly—their north-Minneapolis neighborhood. In fact, the garden—built for $9,050 in materials and plants—was a real hands-on undertaking. Neighborhood volunteers; a nonprofit job-training program; Sentence to Serve workers; elementary, high school and university students and a group a cross-country cyclists all pitched in.

The clients—the nonprofit Sustainable Resources Center and the Minneapolis Park and Recreation Board collaborating with the Oak Park Community Center and the adjacent Boys and Girls Club—requested a multiuse urban green space. With educational as well as recreational uses in mind, the clients wanted a small gathering space for story-telling, programs, demonstrations, and performances. While the adjacent community center uses the garden as an extension of its own facilities, neighborhood residents have specific spaces for gardening, as well.

The community built the garden with such recycled and local materials as salvaged and repainted wire mesh, steel posts from the
The garden, as seen from Knox Avenue, was built on vacant land. Children’s sketches (left) show ideas for the “garden of worldly delights.”
A north Minneapolis neighborhood reclaims a small part of the city with a multipurpose garden
site and leftover warehouse stock. New and salvaged timber were used for retaining walls, steps and raised beds. And the group reclaimed 100-year-old stone pavers from old city streets for a central meeting area and seating. Donated wood chips form a garden path.

Three major areas define the project: the Original Garden, Eve's space and Adam's space. Wire mesh offers enclosure while leaving the open-air rooms visibly exposed for safety. The Original Garden nurtures native plants and fruit-bearing species. Within the Original Garden is the cylinder-shaped Apple Room, devoted to group gatherings and storytelling around a serpentine stone bench surrounding an apple tree. On the east end of the garden is Eve's space, three small rooms made of red, yellow and orange mesh, with a single seat for Eve carved in timber. On the west end is Adam's space, three rooms of blue, purple and green wire mesh, with a seat for Adam in the green room. Plants in each room correspond to the room's specific colors. Sunflowers, for instance, grow in the yellow room, carrots in the orange room, and bleeding hearts in the red room. E.K.

**HONOR AWARD**
Knox Garden
Minneapolis
Loom

A seating area (above) surrounds an apple tree in the circular Apple Room. Within the Original Garden (opposite) looking toward the Red, Orange and Yellow rooms, a child walks toward the Apple Room (opposite bottom). Painted chain-link fencing, as with all the rooms, make up the Red Room (below).
A transit hub makes its imprint in downtown Minneapolis

Minneapolis-St. Paul may well hold the national record for the number of high-design, award-winning parking structures per capita. The Lemington Municipal Transit Hub, designed by Ellerbe Becket in downtown Minneapolis, is the latest entry to capture an AIA Minnesota Honor Award.

This 7-level, 2,000-space garage occupies an entire city block near the Minneapolis Convention Center and across the street from the 300-room Hilton Hotel. As a transit hub, the facility accommodates more than just cars. Lemington contains a terminal with lobby and commercial spaces to serve the new central-business district’s shuttle-bus system. With car parking beginning on the second level and above, the facility has a seven-gate commuter bus terminal below grade that links to the shuttle lobby and future light-rail transit tunnel. Because the facility is both a transit hub and parking garage, nearly 20,000 people travel through the building daily.

Ellerbe Becket set out to reestablish the urban context of the surrounding blocks by respecting the general heights of existing buildings and providing numerous street-level openings for pedestrians to view interior functions. The building, the architects state, needed to read as a real piece of architecture—not just another municipal garage.

The Lemington Municipal Transit Hub does, indeed, read as real architecture. The exterior is a play of forms, textures, colors and materials that offers an intriguing image to pedestrians. Vertical, glass-enclosed stairwells on each corner contrast with a horizontal, twotoned banding of precast panels along the sides. The façade achieves architectural tension because all the elements are slightly skewed, suggesting motion. Inside, the main pedestrian circulation spine is clean and efficient as it leads to street-level access, as well as parking above and bus terminals below.

In a city lacking grand old train stations with all the hustle of people dashing to and from their destinations, the Lemington Municipal Transit Hub creates a bit of that urban energy. E.K.
DOWNTOWN COMMUTING
Meyer, Scherer & Rockcastle took a modest farmhouse (above) and expanded it into a comfortable country retreat. They added a new garage with a porch (opposite right), and a master bedroom attached via an open-air pergola (opposite bottom). Work also included revamping smaller structures on the property, such as the chicken coop (right), which now serves as an office.
Perhaps we all dream of moving to the country at one time or another, secured away from the crime and noise of the city. This renovated farmstead, in all its white-sided, vernacular quietude, epitomizes why we dream of the country.

Meyer, Scherer & Rockcastle's mission was to transform a 160-acre grouping of farm buildings with an original house into a family retreat. The job entailed remodeling some buildings, tearing down others, revamping the landscape and adding to the house.

On the FARM

The original farmhouse was a fairly typical 2-story rural structure with lap siding. This main house still remains, but significantly transformed inside and out. To one side, the architects added a new attached garage with porch tucked under a comfortably deep overhang. The porch and garage lead to a new stone-floored entry hall. On the other end of the house adjacent to the study, Meyer, Scherer & Rockcastle added a
A new entry hall (opposite) leads from the garage to the main house. The floor was designed and installed by Connie Mayran and Fuller Cowles. The living room and dining area (right) have been renewed, while retaining the original country-style charm. The plan (below) shows the house in relation to existing buildings.

dance studio. At a slight angle from the dance room, they added a new master bedroom or "cabin" on the first level, which is attached to the main house by a glass-covered pergola that provides an open-air link in the summer and a sunny enclosed sitting area in the winter. By attaching the master bedroom with a pergola, the room indeed feels like a cabin, slightly detached from the rest of things.

Beyond the house, the architects renovated other farmstead structures, including the chicken coop, which now serves as a home office. The grounds, once farmed, have been restored to native prairie grasses by landscape architect Herb Baldwin. Where an eroded ravine once lay at the edge of the farm is now a pond. Arranged throughout the property are a new garden, orchard, tennis court and car shed.

E.K.

HONOR AWARD
Cowles Farmhouse
Shafer, Minn.
Meyer, Scherer & Rockcastle
Backroads
of Italy

The less-traveled roads often offer the most intriguing experiences. Ruth and Brad Christian, bikes in gear, peddled through the Tuscan countryside this autumn, past medieval villages, up hills, over woodlands and along sprawling vineyards to discover the scent and flavor of this centuries-old region.

We began in Florence (left), then rode through rolling woodlands of Tuscan (center) landscape near Gaiole, a local center for the production of Chianti Classico wines (top), and finally indulged in the comforts of Castello di Spaltenna, located in the medieval village of Radda in Chianti (above).
Scenes that caught our gaze along the way were an alley in Siena (top), a detail of the well-preserved walled village of Monteriggioni (above), and Colle di Val d’Elsa, a Tuscan town (right).
We caught a view of the surrounding Tuscany countryside and roof tops from a tower in the 12th-century hill town of San Gimignano (left and above). Local men gather for their daily visit (below).
Harbor House
Lake Winnebago
High Cliff State Park
Wisconsin
Todd Biekkola

Designed for the shores of the largest inland lake in Wisconsin, this 8,000-square-foot harbor house bridges the gap between water and land, boaters and landlubbers, tourists and residents. Designer Todd Biekkola positions the structure for panoramic views of the lake, park and cliff. And he pulls his references from land and sea.

The front of the facility, facing the harbor, resembles the hull of a ship. A glass-and-steel façade frames lake views from within. At night the illuminated glass hull is a glowing beacon to ships on the distant water. Meanwhile, a tower with stairs and rooftop deck resembles a modified version of a traditional lighthouse. The back of the building, facing land, pulls references from agrarian architecture. Here the designer clads the façade in weathered wood to reflect traditional barns of the area’s numerous farms.

The harbor house serves multiple purposes with its community room, lounge, offices for the Coast Guard and locker rooms. This is a place for boaters and the community as a whole to come together.
Architecture Minnesota has published an annual directory of landscape architectural firms for the past seven years as a means of informing the public and other design professionals of this rich resource of design talent and judgment.

Firms listed in this directory are those which are either owned and operated by members of the Minnesota Chapter of the American Society of Landscape Architects or are registered landscape architects practicing within AIA Minnesota firms.

Should you wish further information about the profession of landscape architecture, call the Minnesota Chapter of the American Society of Landscape Architects (MASLA) at 612/339-0797.

Peter Rand, FAIA
Publisher

LEGEND

AIA American Institute of Architects
ACIP American Institute of Certified Planners
ASLA American Society of Landscape Architects
FASLA Fellow, American Society of Landscape Architects
PE Professional Engineer
RA Registered Architect
RLA Registered Landscape Architect
RLS Registered Land Surveyor

ARCHITECTURAL RESOURCES, INC.
304 East Howard Street
Hibbing, MN 55746
Tel: 218/263-6688
Fax: 218/272-6903
Other Offices: Duluth & Bemidji, MN
Established 1972
—
Earl Thevens RLA
Richard Rose RLA
Douglas Hildenbrand AIA
Lyle Peters AIA
Mark Wirtanen AIA
—
Firm Personnel by Discipline
Landcape Architects 3
Architects 10
Other Professional 4
Technical 5
Administrative 4
Total 26
—
Site planning & development studies 25
Parks & open spaces 20
Urban design & streetscapes 25
Master/comprehensive planning 10
Waterfront planning 15
—
Hibbing Downtown Streetscapes, Hibbing, MN: Community Square, Amora, MN: Bemidji Lakefront, Bemidji, MN: Superior Parks Renovation, Superior, WI, Baywalk Duluth, Duluth, MN

ATSR/LANDSCAPE ARCHITECTURE
ARMSTRONG TORSETH SKOL AND RYDEEN, INC.
4901 Olson Memorial Highway
Minneapolis, MN 55422
Tel: 612/645-3371
Fax: 612/329-5133
Established 1944
—
Paul W. Erickson AIA
Robert J. Gunderson ASLA
Todd R. Wichman ASLA
Patrick J. Surver ASLA
—
Firm Personnel by Discipline
Landcape Architects 4
Architect 30
Other Professional 12
Technical 42
Administrative 8
Total 96
—
Site planning & development studies 40
Parks & open spaces 10
Recreation areas (golf, ski, etc.) 20
Master/comprehensive planning 20
Irrigation design 10
—
Stillwater Senior High School, Stillwater, MN: Champlin Park Senior High School, Brooklyn Park, MN: Wayzata Senior High School, Plymouth, MN: Brookway Land Use Study, Brooklyn Park, MN: Oak Knoll Lutheran Church, Minnetonka, MN

ARTEKA CORPORATION
15195 Martin Drive
Eden Prairie, MN 55344
Tel: 612/934-2000
Fax: 612/934-2247
Established 1970
—
Stewart K. Hanson
Todd Irvine ASLA
Forrest Janner LA
—
Firm Personnel by Discipline
Landcape Architects 2
Other Professional 2
Technical 1
Administrative 4
Total 9
—
Residential/decks/gardens 50
Master/comprehensive planning 10
Multi-family housing/PLUDS 25
Office park/commercial 15
—

DEAN BAILEY ASSOCIATES, INC.
15281 Creekside Court
Eden Prairie, MN 55346
Tel: 612/937-1124
Fax: 612/937-5711
Established 1992
—
J. Dean Bailey ASLA
—
Firm Personnel by Discipline
Landcape Architects 1
Administrative 1
Total 2
—
Residential/decks/gardens 90
Site planning & development studies 5
Multi-family housing/PLUDS 5

The Fraunhofer Residence on the St. Croix River (entrance area, lighting, garden walls, planting); The Dolognow Residence, Edina, MN (arrival area, lighting, patios, site planting); The Buscher Residence, Minnetonka, MN (sculpture gardens, entrance court, swimming pool area); The Luther Residence, Edina, MN (arrival area, swimming pool area, flower gardens, site planting and lighting); Paper Warehouse Corporate Offices, St. Louis Park, MN (visitor entrance area, parking lot development, site planting).

BARTON-ASCHMAN ASSOCIATES, INC.
111 Third Avenue S., Ste. 350
Minneapolis, MN 55401
Tel: 612/332-0421
Fax: 612/332-6180
Established 1940
Other Offices in Principal Cities Throughout the U.S.
—
Wm. Scott Madson ASLA
Craig A. Churchward ASLA
Lawrence Ryan ASLA
Frederick C. Deck AICP, PE
David B. Warrzla PE
—
Firm Personnel by Discipline
Landcape Architects 4
Civil Engineers 6
Traffic/Transportation Engineers 6
Environmental Scientists 4
Technical 3
Graphic Artist 1
Administrative 4
Total 28
—
Site planning & development studies 20
Environmental studies (EIS) 5
Parks & open spaces 15
Urban design & streetscapes 25
Master/comprehensive planning 10
Transportation planning & design 15
Traills & bikeway planning 10

Woodville Community Vision & Master Plan, Woodville, WI; Montevideo Middle School, Montevideo, MN; German Park Renovation Master Plan, New Ulm, MN: Nicollet Avenue Corridor Study, Minneapolis, MN; Hemepin County Bicycle Transportation Plan, Hennepin County, MN
### 1996 DIRECTORY OF LANDSCAPE ARCHITECTURE FIRMS

#### BRW, INC.
- Thresher Square
- 700 3rd Street S.
- Minneapolis, MN 55405
- Tel: 612/370-0700
- Fax: 612/370-1378
- Established 1956
- Other Offices: Seattle and Portland, OR; Sandusky, OH; Phoenix, AZ; Denver, CO; Milwaukee, WI; Orlando, FL
- 
  - Jack Lynch ASLA
  - Miles Lindberg ASLA
  - Robert Kost ASLA
  - Thomas Harrington ASLA
  
- Firm Personnel by Discipline
- Landscape Architects 28
- Other Professional/Technical 236
- Administrative 57
- Total 343
- 
  - Work %
  - Site planning & development studies 20
  - Environmental studies (EIS) 10
  - Parks & open spaces 15
  - Urban design & streetscapes 20
  - Recreation areas (golf, ski, etc.) 10
  - Master/comprehensive planning 15
  - Multi-family housing/PLDS 10
  - Uplands Condominiums at Parkers Lake, Plymouth, MN; Tanner's Lake Park, Oakdale, MN; Fortune Bay Resort Casino, Tower, MN; Super Valu Corporate Headquarters Master Plan, Eden Prairie, MN; Visitor Access Study, Yosemite National Park, CA

#### CLOSE GRANT LANDSCAPE ARCHITECTS
- 610 Northwestern Building
- 275 E. Fourth Street
- St. Paul, MN 55101
- Tel: 612/222-5754
- Fax: 612/222-1017
- Established 1977
- 
  - Bob Close ASLA
  - Deb Bartels RLA
  - Bruce Jacobson
  
- Firm Personnel by Discipline
- Landscape Architects 35
- Administrative 5
- Total 40
- 
  - Work %
  - Residential/decks/gardens 10
  - Site planning & development studies 10
  - Parks & open spaces 25
  - Urban design & streetscapes 25
  - Master/comprehensive planning 5
  - 

#### COEN + STUMPF + ASSOCIATES, INC.
- 128 North Third Street
- Minneapolis, MN 55401
- Tel: 612/339-5307
- Fax: 612/339-5327
- Established 1992
- 
  - Jon E. Stumpf RLA
  - Shane A. Coen LA
  - Matthew Walter LA
  
- Firm Personnel by Discipline
- Landscape Architects 3
- Administrative 4
- Total 7
- 
  - Work %
  - Residential/decks/gardens 10
  - Site planning & development studies 20
  - Parks & open spaces 10
  - Urban design & streetscapes 30
  - Recreation areas (golf, ski, etc.) 10
  - Master/comprehensive planning 10
  - Spiritual/worship 10
  - Gooseberry Falls State Park, St. Francis Peace Garden, Mayo Clinic; Alice Smith Environmental Courtyard; Jeffers Petroglyphs; Long Lake Conservation Center.

#### CUSTOM ROCK INTERNATIONAL
- 1150 Homer Street
- St. Paul, MN 55116
- Tel: 612/699-1345
- Fax: 612/699-1530
- Established 1971
- Other Offices: Las Vegas, NV
- 
  - Howard M. Merriam ASLA
  - Tony Naski
  
- Firm Personnel by Discipline
- Landscape Architects 1
- Other Professional 2
- Technical 3
- Administrative 3
- Total 9

- Work %
- Residential/decks/gardens 15
- Parks & open spaces 10
- Theme & specialty landscape design & consulting (simulated rockwork, water features, decorative concrete paving) 75

#### DOVOLIS JOHNSON & RUGGIERI, INC.
- 1121 E. Franklin Avenue
- Minneapolis, MN 55404
- Tel: 612/371-6009
- Fax: 612/371-1746
- 
  - Dean Dovolis ASLA
  - Brian Johnson ASLA
  - John V. Ruggieri ASLA
  
- Firm Personnel by Discipline
- Landscape Architects 4
- Architects 19
- Administrative 2
- Total 25

- Work %
- Site planning & development studies 30
- Parks & open spaces 10
- Urban design & streetscapes 20
- Recreation areas (golf, ski, etc.) 10
- Master/comprehensive planning 10
- Multi-family housing/PLDS 20

#### DAHLGREN, SHARDLOW, AND UBAN, INC.
- 300 First Avenue N., Ste. 210
- Minneapolis, MN 55401
- Tel: 612/339-3300
- Fax: 612/337-5601
- Established 1976
- 
  - C. John Uban ASLA
  - John W. Shardlow AICP
  - Geoffrey C. Martin ASLA
  - Wallace L. Case ASLA
  - 
    - Firm Personnel by Discipline
    - Landscape Architects 9
    - Other Professional 3
    - Planners and GIS Specialists 6
    - Administrative 2
    - Total 20

- Work %
- Site planning & development studies 20
- Environmental studies (EIS) 10
- Parks & open spaces 10
- Urban design & streetscapes 15
- Recreation areas (golf, ski, etc.) 5
- Master/comprehensive planning 20
- Multi-family housing/PLDS 15
- Expert testimony 5

Robbinsdale Downtown Master Plan and Streetscape, Robbinsdale, MN; Bismarck (ND) Urban Design and Redevelopment Plan, Bismarck, ND; Excelsior Boulevard Streetscape Master Plan, St. Louis Park, MN; Two Rivers Historical Park, Anoka, MN; City of Plymouth GIS Data Base, Plymouth, MN

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ELLERBE BECKET, INC.  
500 LaSalle Avenue  
Minneapolis, MN 55402-2014  
Tel: 612/376-2000  
Fax: 612/376-2271  
Established 1909  
Other Offices: Washington, D.C.; New York, NY; Kansas City, MO; Los Angeles, CA; San Francisco, CA; Tokyo, Japan

Bryan D. Carlson  ASLA  
Richard Varda ASLA, ASLA  
Krisan Osterby-Benson RLA  
David Loehr AIA, ASLA  
Randy Manthey RLA  

— Firm Personnel by Discipline  
Landscape Architects 8  
Architects 273  
Engineering 71  
Construction  
Corporate & Subsidiary Support 172  
Total 647

Site planning & development studies 60  
Parks & open spaces 5  
Urban design & streetscapes 15  
Master/comprehensive planning 20  

— University of Notre Dame, Framework Plan, Notre Dame, IN  
— Carlson School of Management, University of Minnesota, Minneapolis, MN  
— Science Museum of Minnesota, St. Paul, MN; Hubert H. Humphrey Metrodome Plaza, Minneapolis, MN

ERNST ASSOCIATES  
122 West 6th Street  
Chaska, MN 55318  
Tel: 612/448-4094  
Fax: 612/448-6997  
Established 1977  

Gene F. Ernst  ASLA  
Valerie J. Rivers  ASLA  

— Firm Personnel by Discipline  
Landscape Architects 2  
Technical 1  
Administrative 1  
Total 4

— Work %  
Residential/decks/gardens 3  
Site planning & development studies 15  
Parks & open spaces 27  
Urban design & streetscapes 15  
Recreation areas (golf, ski, etc.) 5  
Master/comprehensive planning 5  
Multi-family housing/PLDS 30  

— Datacard Corporation Party Patio, Deck & Corporate & Sales Entry Plaza, Minnetonka, MN; Chaska City Hall Library; ConAgra Corporate Campus, Omaha, NE; University of St. Thomas, Minneapolis, MN; WestHealth Campus, Plymouth, MN

DAMON FARBER ASSOCIATES  
250 Third Avenue S.  
Minneapolis, MN 55401  
Tel: 612/332-7522  
Fax: 612/332-9036  
Established 1984  

Damon Farber FASLA  
Joan MacLeod RLA  
Todd Johnson ASLA  

— Firm Personnel by Discipline  
Landscape Architects 6  
Administrative 1  
Total 7

— Work %  
Residential/decks/gardens 5  
Site planning & development studies 25  
Parks & open spaces 10  
Urban design & streetscapes 25  
Recreation areas (golf, ski, etc.) 5  
Master/comprehensive planning 25  
Multi-family housing/PLDS 5  

— Cargill Corporate Headquarters, Master Plan, Minnetonka, MN; Canal Park Drive Urban Design & Streetscape Improvements, Duluth, MN; University of Minnesota Campus Entry and Pleasant Street Master Plan, Minneapolis, MN; Winnetka Avenue Streetscape, Golden Valley, MN; Mill Pond Park Comprehensive Plan & Recreational Trail Systems, Austin, MN

HAMMEL GREEN AND ABRAMS-DON, INC.  
1201 Harmon Place  
Minneapolis, MN 55403  
Tel: 612/337-4100  
Fax: 612/337-9013  
Established 1953  

— Other Offices, Milwaukee, WI; Rochester, MN  
— Thomas R. Oslund ASLA  
Gary M. Fishbeck ASLA  

— Firm Personnel by Discipline  
Landscape Architects 9  
Architects 85  
Other Professional 28  
Technical 25  
Other 63  
Administrative 54  
Total 264

— Work %  
Residential/decks/gardens 80  
Recreation areas (golf, ski, etc.) 10  
Neighborhood amenities & renovation 10  

— Edina Country Club (monumentation, signage, lighting, brick paving, planting), Edina, MN; Parkers Lake Suncourt Homes (street scape & intimate-scale private yards), Plymouth, MN; Ashton Residence (pond/fountain, arroyo area/entrance remodeling), Hopkins, MN; Moore Residence (estate arrival area, entrance, swimming pool area, porch addition), Orono, MN

— Work %  
Residential/decks/gardens 5  
Site planning & development studies 35  
Parks & open spaces 10  
Urban design & streetscapes 15  
Master/comprehensive planning 35  

— Appleton Memorial Park and Arboretum Garden, Appleton, WI; General Mills Executive Courtyard, Golden Valley, MN; Campus Master Plan, University of Minnesota at Morris and Duluth; Marine Education Center at Minnesota Zoological Gardens, Apple Valley, MN; Milwaukee Zoo Master Plan, Milwaukee, WI; Kuwait American Foundation Headquarters Master Plan, Washington, D.C.

HAUCK ASSOCIATES, INC.  
3620 France Avenue S.  
St. Louis Park, MN 55416  
Tel: 612/920-5088  
Fax: 612/920-2920  
Established 1990  

Robert P. Hauck ASLA  

— Firm Personnel by Discipline  
Landscape Architects 2  
Other Professional 1  
Administrative 1  
Total 4

— Work %  
Residential/decks/gardens 80  
Recreation areas (golf, ski, etc.) 10  
Neighborhood amenities & renovation 10  

— Work %  
Residential/decks/gardens 5  
Site planning & development studies 35  
Parks & open spaces 10  
Urban design & streetscapes 15  
Master/comprehensive planning 35  

— Appleton Memorial Park and Arboretum Garden, Appleton, WI; General Mills Executive Courtyard, Golden Valley, MN; Campus Master Plan, University of Minnesota at Morris and Duluth; Marine Education Center at Minnesota Zoological Gardens, Apple Valley, MN; Milwaukee Zoo Master Plan, Milwaukee, WI; Kuwait American Foundation Headquarters Master Plan, Washington, D.C.

HOISINGTON KOEGLER GROUP INC.  
7300 Metro Boulevard, #255  
Minneapolis, MN 55439  
Tel: 612/335-9960  
Fax: 612/335-3160  
Established 1982  

Fred Hoisington AICP  
Mark Koegler ASLA  
Michael Schroeder ASLA  

— Firm Personnel by Discipline  
Landscape Architects 6  
Urban Planners 2  
Administrative 1.5  
Total 9.5

— Work %  
Site planning & development studies 20  
Parks & open spaces 20  
Urban design & streetscapes 35  
Master/comprehensive planning 20  
Multi-family housing/PLDS 5  

— Brooklyn Boulevard Streetscape, Brooklyn Park, MN; H.B. Fuller Corporate Center Master Plan & Nature Preserve, Vadnais Heights, MN; Central Middle School Athletic Field Design, Eden Prairie, MN; Bush Lake Beach Park Redevelopment, Bloomington, MN; Downtown Development Guide, Ottumwa, IA; City Center Vision 2002 Plan, Chanhassen, MN; City Center Concept Plan, Plymouth, MN; Mississippi River Parkway, Elk River, MN; Virginia Comprehensive Plan, Virginia, MN

KEEAN & SVEIVEN INC.  
1441 McGinty Road West  
Wayzata, MN 55391  
Tel: 612/931-3122  
Fax: 612/931-8063  
Established 1990  

Kevin J. Keenan ASLA  

— Firm Personnel by Discipline  
Landscape Architects 2  
Technical 6  
Master Gardeners 3  
Administrative 1  
Total 12

— Work %  
Residential/decks/gardens 80  
Public art 20  

— Sharma Residence, North Oaks, MN; St. Paul Cultural Garden, St. Paul, MN; University of Minnesota Green Hall Artwork Project, St. Paul, MN; Lundell Residence, Medina, MN; Gallagher Residence, Edina, MN

Paid Advertising

1996 DIRECTORY OF LANDSCAPE ARCHITECTURE FIRMS

JANUARY/FEBRUARY 1996 49
**DAVID A. KIRSCHT ASSOCIATES, INC.**
5500 Lincoln Drive
Edina, MN 55436
Tel: 612/988-4030
Fax: 612/938-0026
Established 1972

- Firm Personnel by Discipline
  - Landscape Architects: 2
  - Administrative: 1
  - Total: 3

- Work %
  - Residential/decks/gardens: 5
  - Site planning & development studies: 15
  - Golf courses: 5
  - Master/comprehensive planning: 10
  - Multi-family housing/PUDs: 10
  - Office/commercial: 15

**LANDMARK DESIGN, INC.**
105 Orono Orchard Road
Long Lake, MN 55356
Tel: 612/476-6765
Fax: 612/475-8984
Established 1979

- Greg Kellenberger ASLA
  - Dana Kellenberger
  - Firm Personnel by Discipline
    - Landscape Architects: 2
    - Technical: 1
    - Administrative: 5
    - Total: 8

- Work %
  - Residential/decks/gardens: 5
  - Site planning & development studies: 10
  - Parks & open space: 10
  - Urban design & streetscapes: 5
  - Recreation areas: 5
  - Master/comprehensive planning: 15
  - Transit facilities planning: 50
- Burnsville Transit Station, Burnsville, MN; Southwest Metro Transit Station, Eden Prairie, MN; Hopkins School District Athletic Facilities Planning and Design, Hopkins, MN; Medtronic Facilities Master Plan, Fridley, MN; Folwell Park, Minneapolis Park and Recreation Board, Minneapolis, MN; Plymouth Metrolink Park and Ride Study, Plymouth, MN

**LSA DESIGN, INC.**
126 North Third Street
Minneapolis, MN 55401
Tel: 612/339-8729
Fax: 612/339-7433
Established 1989

- James Lasher ASLA
  - Harold Skjeldstad
  - P. J. Andersen
  - Kyle Williams AIA
  - Firm Personnel by Discipline
    - Landscape Architects: 3
    - Architect: 3
    - Administrative: 2
    - Total: 8

- Work %
  - Residential/decks/gardens: 5
  - Site planning & development studies: 10
  - Parks & open space: 10
  - Urban design & streetscapes: 5
  - Recreation areas: 5
  - Master/comprehensive planning: 15
  - Transit facilities planning: 50

**MELCHERT/BLOCK ASSOCIATES, INC.**
367 E. Kellogg Blvd.
St. Paul, MN 55101
Tel: 612/228-5664
Fax: 612/223-5857
Established 1984

- Ronald M. Melchert ASLA
  - Jack M. Walkky PE
  - Firm Personnel by Discipline
    - Landscape Architects: 4
    - Registered Landscape Surveyors: 3
    - Civil Engineers: 5
    - Administrative: 2
    - Total: 14

- Work %
  - Site planning & development studies: 15
  - Environmental studies (EIS): 5
  - Parks & open spaces: 10
  - Recreation areas (golf, ski, etc.): 10
  - Master/comprehensive planning: 10
  - Multi-family housing/PUDs: 20

**MELCHERT/BLOCK ASSOCIATES, INC.**
367 E. Kellogg Blvd.
St. Paul, MN 55101
Tel: 612/228-5664
Fax: 612/223-5857
Established 1984

- Ronald M. Melchert ASLA
  - Jack M. Walkky PE
  - Firm Personnel by Discipline
    - Landscape Architects: 4
    - Registered Landscape Surveyors: 3
    - Civil Engineers: 5
    - Administrative: 2
    - Total: 14

- Work %
  - Site planning & development studies: 15
  - Environmental studies (EIS): 5
  - Parks & open spaces: 10
  - Recreation areas (golf, ski, etc.): 10
  - Master/comprehensive planning: 10
  - Multi-family housing/PUDs: 20

**SANDERS WACKER WEHRMAN BERGLY, INC.**
365 E. Kellogg Boulevard
St. Paul, MN 55101-1411
Tel: 612/221-0401
Fax: 612/297-0817
Established 1979

- William D. Sanders RLA, FASLA
  - Larry Wacker RLA, ASLA
  - John Bergly
  - Firm Personnel by Discipline
    - Landscape Architects: 6
    - Other Professional: 2
    - Administrative: 1.5
    - Total: 9.5

- Work %
  - Residential/decks/gardens: 5
  - Site planning & development studies: 10
  - Environmental studies (EIS): 5
  - Parks & open spaces: 20
  - Urban design & streetscapes: 20
  - Recreation areas (golf, ski, etc.): 10
  - Master/comprehensive planning: 10
  - Multi-family housing/PUDs: 10
  - Cemetery planning: 10

**RLK ASSOCIATES, LTD.**
6110 Blue Circle Drive
Minnetonka, MN 55343
Tel: 612/933-4972
Fax: 612/933-1153
Established 1991

- John E. R. Dietrich ASLA
  - Richard L. Kopp PE
  - Eric R. Johnson RLA
  - Steven B. Schwamek AICP
  - Firm Personnel by Discipline
    - Landscape Architects: 7
    - Other Professional/Technical/ Administrative: 14.5
    - Total: 8.5

- Work %
  - Residential/decks/gardens: 5
  - Site planning & development studies: 25
  - Parks & open spaces: 20
  - Urban design & streetscapes: 20
  - Master/comprehensive planning: 20

- Mninnihaha Park, Minneapolis, MN; Capitol Area Architectural & Planning Board, St. Paul, MN; Croquet Downtown Streetscape, Croquet, MN; Arlington High School, St. Paul, MN; Sandstone Comprehensive Plan, Sandstone, MN; Ironworld, USA
<table>
<thead>
<tr>
<th><strong>SAVANNA DESIGNS, INC.</strong></th>
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<tbody>
<tr>
<td>3511 Lake Elmo Avenue</td>
<td>Lake Elmo, MN 55042</td>
</tr>
<tr>
<td>Tel: 612/770-6910</td>
<td>Fax: 612/770-6910</td>
</tr>
<tr>
<td>Jim G. Hagstrom</td>
<td>ASLA</td>
</tr>
<tr>
<td>Firm Personnel by Discipline</td>
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<tr>
<td>Landscape Architect</td>
<td>1</td>
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<tr>
<td>Parks &amp; open spaces</td>
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<tr>
<td>Master/comprehensive planning</td>
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<tr>
<td>Brandt Residence, Stillwater, MN</td>
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<tr>
<td>Holmen Residence, Dellwood, MN</td>
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<tr>
<td>Irvine Residence, Dellwood, MN</td>
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<tr>
<td>Jud Medical, St. Paul, MN</td>
<td>YMCA</td>
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<tr>
<td>Camp St. Croix, Hudson, WI</td>
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<tr>
<th><strong>SRF CONSULTING GROUP INC.</strong></th>
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<tbody>
<tr>
<td>One Carlson Parkway North</td>
<td>Minneapolis, MN 55447</td>
</tr>
<tr>
<td>Tel: 612/475-0010</td>
<td>Fax: 612/475-2429</td>
</tr>
<tr>
<td>Established 1971</td>
<td></td>
</tr>
<tr>
<td>Barry Warner</td>
<td>ASLA, AICP</td>
</tr>
<tr>
<td>Bob Resco</td>
<td>PE</td>
</tr>
<tr>
<td>Peter Fausch</td>
<td>PE</td>
</tr>
<tr>
<td>Charleen Zimmer</td>
<td>AICP</td>
</tr>
<tr>
<td>Tom Thorson</td>
<td>ASLA</td>
</tr>
<tr>
<td>Firm Personnel by Discipline</td>
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<tr>
<td>Landscape Architects</td>
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<tr>
<td>Planning/Environmental</td>
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<tr>
<td>Traffic/Transportation</td>
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<tr>
<td>Urban design &amp; streetscapes</td>
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<tr>
<td>29th Street/Midtown Greenway, Minneapolis, MN</td>
<td>Cedar lake park Trail, Minneapolis, MN</td>
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<tr>
<th><strong>TOLTZ, KING, DUVALL, ANDERSON AND ASSOCIATES, INC.</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 Piper Jaffray Plaza</td>
<td>St. Paul, MN 55101-2140</td>
</tr>
<tr>
<td>Tel: 612/292-4900</td>
<td>Fax: 612/292-0063</td>
</tr>
<tr>
<td>Established 1910</td>
<td></td>
</tr>
<tr>
<td>Duane Prew</td>
<td>PE</td>
</tr>
<tr>
<td>James Vosen</td>
<td>PE</td>
</tr>
<tr>
<td>Wendy Hendrickson</td>
<td>AIA, AICP</td>
</tr>
<tr>
<td>William Armstrong</td>
<td>AIA</td>
</tr>
<tr>
<td>Richard Gray</td>
<td>ASLA</td>
</tr>
<tr>
<td>Firm Personnel by Discipline</td>
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<tr>
<td>Landscape Architects</td>
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<td>Athletic fields &amp; tracks</td>
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<tr>
<th><strong>SYMMES MAINI &amp; MCKEE ASSOCIATES</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>801 Nicollet Mall, Suite 1600</td>
<td>Minneapolis, MN 55402</td>
</tr>
<tr>
<td>Tel: 612/332-3654</td>
<td>Fax: 612/332-3620</td>
</tr>
<tr>
<td>Established 1953</td>
<td>Other Offices: Cambridge, MA</td>
</tr>
<tr>
<td>Gregory Fern</td>
<td></td>
</tr>
<tr>
<td>James Wolahan</td>
<td>PE</td>
</tr>
<tr>
<td>Michael Holland</td>
<td></td>
</tr>
<tr>
<td>Stefan Helgeson</td>
<td>AIA, ASLA</td>
</tr>
<tr>
<td>Paul Filatraft</td>
<td>ASLA</td>
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<td>Firm Personnel by Discipline</td>
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<tr>
<th><strong>WESTWOOD PROFESSIONAL SERVICES, INC.</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>14180 West Trunk Highway 5</td>
<td>Eden Prairie, MN 55344-2039</td>
</tr>
<tr>
<td>Tel: 612/937-5150</td>
<td>Fax: 612/937-5822</td>
</tr>
<tr>
<td>Established 1972</td>
<td>Other Offices: Buffalo, MN</td>
</tr>
<tr>
<td>Tim Eckkila</td>
<td>ASLA</td>
</tr>
<tr>
<td>Greg Kopischke</td>
<td>ASLA</td>
</tr>
<tr>
<td>Ed Hasek</td>
<td>ASLA</td>
</tr>
<tr>
<td>Dennis Marluna</td>
<td>PE</td>
</tr>
<tr>
<td>Marty Weber</td>
<td>RLS</td>
</tr>
<tr>
<td>Firm Personnel by Discipline</td>
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<td>Master/comprehensive planning</td>
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<td>Civil &amp; traffic engineering</td>
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<tr>
<td>surveying, wetland</td>
<td>environmental studies</td>
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<table>
<thead>
<tr>
<th><strong>ROBERT H. WILLIAMS, R.L.A.</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3300 Forty-Third Avenue S</td>
<td>Minneapolis, MN 55406-2253</td>
</tr>
<tr>
<td>Tel: 612/722-1491</td>
<td>Fax: 612/722-7659</td>
</tr>
<tr>
<td>Established 1994</td>
<td>Internet Address: ROBH <a href="mailto:WILMS@AOL.COM">WILMS@AOL.COM</a></td>
</tr>
<tr>
<td>Rob Williams</td>
<td>RLA</td>
</tr>
<tr>
<td>Firm Personnel by Discipline</td>
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<tr>
<td>Landscape Architects</td>
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<td>Architect</td>
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<td>Other Professional</td>
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<td>Civil/Site Planner</td>
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<td>Administrative</td>
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</table>

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JANUARY/FEBRUARY 1996 51
"Pioneering innovative solutions for fire life safety"

New Construction and Retrofit

- Fire Protection Engineering
- Code Consulting
- Fire Risk Assessment
- Due Diligence

Serving the warehouse, manufacturing, industrial, hazardous materials, retail, entertainment, assisted living facilities markets. We negotiate to closure recommended strategies!

MountainStar
7800 Metro Parkway • Suite 112
Bloomington, MN 55425
(612) 851-3085 • Fax (612) 851-3086

---

You can't

drive to work, walk the dog, cook that pot roast, bake that bread, shower after jogging, watch 60 Minutes, toast the toast, brew the coffee, mow the lawn, call your mother, be cool in the summer, wash your sweat suit, dine out, play computer games, medicate your cold, build your new house, listen to "old blue eyes", ride your bike, videotape that wedding, vacuum the rug, recycle your garbage, play baseball at night, be warm in the winter, fly to Hawaii, check the time, flush the toilet, buy a fresh tomato in winter, fill that cavity, use the cash machine

without an engineer.

For a free copy of the Consulting Engineers directory contact:
Consulting Engineers Council of Minnesota
5407 Excelsior Blvd., Suite A
Minneapolis, MN 55416
(612) 922-9696

H. Robert Anderson & Associates, Inc. would like to thank the many Architects & Engineers that have given us the opportunity to handle their Professional Liability Insurance Program.

We would like to handle yours also!

Specializing in Professional Liability Insurance for Architects & Engineers; Exclusive Minnesota DPIC representation.

4600 W. 77th Street
Ste. 105
Edina, MN 55435
(612) 893-1933
Fax 893-1819
With this issue Architecture Minnesota presents our fourth directory of those Minnesota firms which provide consultative engineering services. Principals of these firms are members of the Consulting Engineers Council of Minnesota or of AIA Minnesota.

Engineers provide those critical design skills which enable our entire built environment to be structurally safe, comfortably warm and well lit. They also design our highways and bridges, water treatment facilities and power generation plants.

In Minnesota, you will find there is a wealth of engineering talent available for your next project. Study this directory and call either the Consulting Engineers Council at 612/922-9696 or AIA Minnesota at 612/338-6763 for additional information and assistance.

Peter A. Rand, FAIA
Publisher

### LEGEND

| PE | Professional Engineer |
| AIA | American Institute of Architects |
| FAIA | Fellow, American Institute of Architects |
| ASLA | American Society of Landscape Architects |
| FASLA | Fellow, American Society of Landscape Architects |
| RLS | Registered Land Surveyor |

### DIRECTOR OF CONSULTING ENGINEERING FIRMS

#### ARMSTRONG, TORSETH, SKOLD AND RYDEEN, INC.

4901 Olson Memorial Highway
Minneapolis, MN 55422
Tel: 612/745-3731
Fax: 612/745-3709
Established 1944

- James E. Rydeen
  - AIA
- Paul W. Erickson
  - AIA
- James N. Ries
- Robert A. Martini
- Terry L. Stofferah

Firm Personnel by Discipline

- **Mechanical Engineers**: 9
- **Electrical Engineers**: 5
- **Architects**: 1
- **Other Professional**: 3
- **Administrative**: 1

**TOTAL**: 13

- **Civil, electrical, mechanical and structural consulting services for buildings and bridges. Design of heating, ventilating, air conditioning, electrical power distribution, lighting systems, and energy management studies for industrial, commercial and institutional facilities. Structural design and investigations for buildings, bridges, heavy and special structure design together with field surveying including construction management service. Historic building preservation. Evaluation studies, Building Commissioning, Railroad engineering, Bridges-track-facilities.**


#### BONESTROO, ROSENF, ANDERLIEK & ASSOCIATES, INC.

1705 W. Hwy. 36
St. Paul, MN 55113
Tel: 612/635-4600
Fax: 612/635-1311
Established 1950

- Otto Bonestroo
  - PE
- Marvin Sorvalla
  - PE
- Thomas Noyes
  - PE
- David Loskota
  - PE
- Robert Pfeiffer
  - PE

Firm Personnel by Discipline

- **Civil Engineers**: 6
- **Structural Engineers**: 6
- **Electrical Engineers**: 1
- **Architects**: 5
- **Other Professional**: 2
- **Technical**: 17

**TOTAL**: 64

- **Architectural and performance space acoustics, building and partition noise isolation, environmental noise control, exterior facade attenuation for aircraft and other sources, sound system design, industrial noise control, acoustic and noise measurements, control of vibration, blasting and small arms ranges, land use compatibility, environmental assessments, impact statements and indirect source permits.**

- **Combined Operations Center/ Heathrow, London, England: Dual Track EIS (air quality assessment), Minneapolis/St. Paul, MN: Norman County College (noise control/HVAC), Bloomington, MN: St. Joseph Church (acoustic design), Lino Lakes, MN: Mille Lacs Reservation (school building acoustics), Mille Lacs Reservation, MN**

#### BKBM ENGINEERS, INC.

210 North 2nd Street, #200
Minneapolis, MN 55401
Tel: 612/333-7101
Fax: 612/342-9482
Established 1967

- Charles L. Ballou
  - PE
- Thomas J. Downs
  - PE
- Ronald J. LaMere
  - PE
- John A. Clark
  - PE

Firm Personnel by Discipline

- **Civil Engineers**: 2
- **Structural Engineers**: 13
- **Mechanical Engineers**: 5
- **Electrical Engineers**: 4
- **Technical**: 13
- **Administrative**: 4.5

**TOTAL**: 38.5

Specializing in transportation planning and traffic engineering; stormwater and water resources planning, design and management; water supply, storage, distribution and treatment; wastewater collection and treatment; roads, bridges and airports; parks, aquatic centers and ice arenas. Services offered include feasibility studies, master planning, detailed design, project surveying, construction inspection/administration, GIS consulting.

- **BRAUN INTERTEC CORPORATION**
  3000 Town Line Avenue South
  Minneapolis, MN 55439-0108
  Tel: 612/294-6900
  Fax: 612/294-6190
  Established 1957
  Other Offices: Minneapolis, Rochester, St. Cloud and St. Paul, MN; Chicago, IL; Billings, MT; Bismarck and Fargo, ND; Portland, OR and La Crosse, WI
  - J.S. Braun PE
  - George D. Kluempke PE
  - Cameron G. Kruse PE
  - Larry A. Glenn CPA
  - Glenn F. Purdhe

  Firm Personnel by Discipline
  - Civil Engineers 50
  - Other Engineers 19
  - Architects 1
  - Other Professional 5
  - Technical 318
  - Administrative 123
  - TOTAL 512

  Braun Intertec is an engineering and environmental consulting and testing company providing services to public and private clients from 20 office locations in six states. Services include geotechnical materials and environmental engineering, infrastructure and pavement management, site assessments, natural resource management and air quality management, industrial hygiene services and laborato ry testing and analyses.

- **CLARK ENGINEERING CORPORATION**
  2855 Wayzata Boulevard
  Minneapolis, MN 55405
  Tel: 612/374-7470
  Fax: 612/374-7449
  Established 1937
  Other Offices: Aberdeen and Rapid City, SD; Fort Meyers, FL
  - Charles E. Hansen PE
  - Larry G. McMurtry PE
  - Habib Najdi PE
  - Michael A. Fowler PE
  - Leslie G. Renchler

  Firm Personnel by Discipline
  - Civil Engineers 17.5
  - Structural Engineers 11
  - Other Professional 4
  - Technical 34.5
  - Administrative 9.5
  - TOTAL 76.5

  - Structural Engineering, Municipal/Environmental Engineering, Transportation Engineering, Surveying, Construction Services, Facility/Site Development
  - Green Bay Packaging Corrugator Plant, Coon Rapids, MN; Hormel Foods Plant Expansion, Austin, MN; Benemee Engineering Co. Plant Addition, Monticello, MN; Wayzata Senior High School, Wayzata, MN; Maple Grove Senior High School, Maple Grove, MN

- **DARG BOLGREAN, MENK, INC.**
  7575 Golden Valley Road, Ste. 210
  Golden Valley, MN 55427
  Tel: 612/544-8366
  Fax: 612/544-8914
  Established 1960.
  - Lloyd W. Darg
  - Gene Bolgrean
  - Harry D. Menk

  Firm Personnel by Discipline
  - Civil Engineers 4
  - Technical 1
  - Administrative 1
  - TOTAL 6

  With expertise in steel, concrete, masonry and wood structural systems, Darg Bolgrean, Menk, Incorporated has engineered well over 3000 projects nationwide including commercial, academic, office/warehouse, industrial, renovation/restorations, multiple housing, government, medical, religious, and parking facilities for the architectural profession, contractors, fabricators and building owners, managers and developers.

  - West Salem Elementary School
  - West Salem, WI; Net Med Office and Parking Ramp, Burnsville, MN; Cargill Office Building, Fargo, ND; Best Buy Headquarters Addition, Eden Prairie, MN; Raven Golf Clubhouse, Phoenix, AZ

- **DOLEJS ASSOCIATES INC.**
  1024 North Riverfront Drive
  Mankato, MN 56001
  Tel: 507/625-7809 or 612/375-1936
  Fax: 507/338-9225
  Established 1977
  Other Offices: Burnsville, MN (612/435-6790)
  - Joseph M. Dolejs
  - David A. Kroells

  Firm Personnel by Discipline
  - Mechanical Engineers 1
  - Technical 8
  - Administrative 1.5
  - TOTAL 11

  Dolejs Associates provides mechanical and electrical design services for the building industry. An experienced and stable staff provides expertise in the HVAC, plumbing, fire protection, temperature control, lighting power, communication and life safety systems. Recent projects include schools, restaurants, athletic facilities, motels, engineered housing, churches, ADA and energy conservation retrofits.

  - Blue Earth Area High School
  - Blue Earth, MN; Burnsville Post Office, Burnsville, MN; Burnsville Read Life Co-op, Burnsville, MN; Dakota Meadows Middle School, Mankato, MN; Luverne Veterans’ Home, Luverne, MN

- **DUNHAM ASSOCIATES, INC.**
  8200 Normandale Blvd., Ste. 500
  Minneapolis, MN 55437-1060
  Tel: 612/820-1400
  Fax: 612/820-2760
  Established 1960
  Other Offices: Rapid City, SD; Las Vegas, NV
  - George F. Dunham
  - Kathleen M. Kolbeck
  - Dale J. Holland
  - Ronald L. Feldhaus
  - Brian P. Szew

  Firm Personnel by Discipline
  - Structural Engineers 10
  - Mechanical Engineers 44
  - Electrical Engineers 26
  - Other Professional 28
  - Administrative 22
  - TOTAL 130

  Dunham Associates, Inc. is a multi-faceted consulting engineering firm that offers mechanical, electrical and structural engineering and communications systems design services. Specialized areas include health care, retail, airport, hotel/casino, skyscrapers, airports, data centers, clean rooms, schools, master planning, and energy studies.

  - Minneapolis/St. Paul International Airport FIS (Federal Inspection Services) Facility, MN; West Health Campus, Plymouth, MN; Souring Eagle Casino/Hotel, Mt. Pleasant, MI; Minneapolis Community College Master Planning, Minneapolis, MN; Medford Outlet Center, Phase II, Medford, MN
hotels and projects include commercial and arena (Buffalo Plant, international in retrofit central collegiate facilities, medical facilities, corporate office buildings, libraries, resorts, stadiums, and airports. Pleasant Hill Library, Hastings, MN; Arlington Senior High School, St. Paul, MN; Stillwater Prison Industries and Education Building Renovation, MCF; Airport Equipment Maintenance Building Metropolitan Airport Commission: Library Archives and Overflow Facility, University of Minnesota.

The practice is international in scope.

University of Minnesota, Carlson School of Management, Minneapolis, MN; Dow Global Data Center, Midland, MI; First Avenue Cooling Plant, Minneapolis, MN; Crossroads Arena (Buffalo Sabers), Buffalo, NY; Moscow Bank of the Russian Federations Savings Bank, Moscow, Russia.

Mechanical and electrical design of HVAC, plumbing, ground source heat pumps, fire protection, specialty lighting, power, voice/data communications, and security/surveillance for a variety of building types. EEA has extensive experience in design of correctional facilities, libraries, educational facilities, data processing centers, manufacturing facilities, clean rooms, aircraft engine test facilities, and airports.

Ericksen, Roed and Associates, Inc.
300 First Avenue North, Suite 420
Minneapolis, MN 55401
Tel: 612/342-9210
Fax: 612/342-9214
Established 1985

— Alfred G. "Bud" Ericksen PE
— Thomas E. Amundson PE
— James D. Roed PE
— Robert A. Curtis PE

Professional Structural Engineering services from planning through construction for corporate, commercial, educational, health care, industrial, sports facilities, parking ramps, aircraft engine test facilities, and restoration engineering. We provide construction documents, specifications, construction observation, existing building analysis reports and forensic engineering.

Minneapolis Federal Courthouse, Minneapolis, MN; Target Center, Minneapolis, MN; University of Minnesota Basic Sciences, Minneapolis, MN; North Memorial Hospital Expansion, Minneapolis, MN; AT&T Office Tower, Minneapolis, MN.
**HOSTER, JACOBS & JOHNSON, INC.**
345 Canal Park Drive, Suite 200
Duluth, MN 55802
Tel: 218/722-3060
Fax: 218/722-1931
Established 1922

- James R. Johnson
- Charles F. Jacobs

Firm Personnel by Discipline
Mechanical Engineers 2
Electrical Engineers 3
Technical 3
Administrative 1.5
TOTAL 9.5

Mechanical and electrical engineering, including design of heating, ventilating, air conditioning, fire protection, plumbing, lighting, power distribution, data, voice, fire and security communications for all building types. Energy audits, studies, building management systems, site and airport lighting.

- Aircraft Rescue Fire Fighting Training Facility, Duluth, MN; Village Apartment Complex, University of Minnesota Duluth, Duluth, MN; Douglas County Courthouse
- Remodel, Superior, WI; Washington Junior High Renovation, Duluth, MN; Mesabi Vermilion Campus Remodeling, Virginia, MN

**GAUSMAN & MOORE ASSOCIATES, INC.**
1700 W. Highway 36 - 700 Rosedale Towers
Rochester, MN 55901
Tel: 612/557-8700
Fax: 612/557-8701
Established 1935
Other Offices: Duluth and Brainerd, MN

- James W. Giefer
- James A. Keller
- D. Lane Hersey
- Robert F. Fulk

Firm Personnel by Discipline
Mechanical Engineers 5
Electrical Engineers 5
Technical 25
Administrative 12
TOTAL 47

A National practice in traditional Mechanical and Electrical Engineering. Services augmented by specialties including Life Safety Renovations, Energy Sources/Conservation, and Forensic Investigative work.

- Media Play, Sunoco, Sun Goody and Shopko Stores, Nationwide; Holiday Companies, Upper Midwest; Hennepin County Medical Center Emergency Room, Minneapolis, MN; USWEST, Plymouth, MN; Technical Colleges in Brainerd, Duluth, Hutchinson/Willmar, Riverland, MN; Public Schools in Minneapolis, St. Paul, Brainerd, and Duluth, MN

**HALLBERG ASSOCIATES, INC.**
2207 Third Street
White Bear Lake, MN 55110
Tel: 612/629-5655
Fax: 612/629-6215
Established 1984

- Joseph W. Hallberg

Firm Personnel by Discipline
Mechanical Engineers 2
Electrical Engineers 2
Technical 7
Administrative 13
TOTAL 21

Mechanical, Electrical and Energy Management Services for educational facilities throughout Minnesota.

- Discovery Middle School, Alexandria, MN; Buffalo Senior High School, Buffalo, MN; Burns Lake Elementary School, Red Wing, MN; Big Lake High School, Big Lake, MN; Little Mountain Elementary School, Monticello, MN

**HAKANSON ANDERSON ASSOCIATES, INC.**
224 Monroe Street
Anoka, MN 55303
Tel: 612/427-5860
Fax: 612/427-3401
Established 1975
Other Offices: Monticello, MN 55362

- Lawrence G. Koshak
- Peter R. Raatikka
- Merlin O. Otto

Firm Personnel by Discipline
Civil Engineers 6
Other Professional 3
Technical 9
Administrative 3
TOTAL 21

Hakanson Anderson Assoc., Inc. offers planning, civil and municipal engineering, survey and landscape architecture services to the public and private sectors. Specialized areas include environmental assessments, wetlands, site master plans, hydrologic studies, streets and roads, park and recreation facilities, wastewater and water supply and distribution, surveying and construction staking.

- Anoka Enterprise Park, Anoka, MN; County 81 Frontage Roads, Osseo, MN; Anoka Electric Cooperative Operations Center, Ramsey, MN; Mille Lacs Wastewater Treatment Facility Study, Mille Lacs and Crow Wing Counties, MN; Grand Marais, Cook County Airport, Grand Marais, MN

**HALLBERG ASSOCIATES, INC.**
2207 Third Street
White Bear Lake, MN 55110
Tel: 612/629-5655
Fax: 612/629-6215
Established 1984

- Joseph W. Hallberg

Firm Personnel by Discipline
Mechanical Engineers 2
Electrical Engineers 2
Technical 7
Administrative 13
TOTAL 21

Mechanical, Electrical and Energy Management Services for educational facilities throughout Minnesota.

- Discovery Middle School, Alexandria, MN; Buffalo Senior High School, Buffalo, MN; Burns Lake Elementary School, Red Wing, MN; Big Lake High School, Big Lake, MN; Little Mountain Elementary School, Monticello, MN

**HAMMEL GREEN AND ABRAHAMSON, INC.**
1201 Harmon Place
Minneapolis, MN 55403
Tel: 612/337-4100
Fax: 612/332-9013
Established 1953
Other Offices: Milwaukee, WI; Rochester, MN

- Harry R. Wilecox
- James M. Moravek
- David J. Galey
- Steve Biemeluck (Rochester)

Firm Personnel by Discipline
Civil Engineers 7
Structural Engineers 9
Mechanical Engineers 25
Electrical Engineers 17
Architects 19
Other Professional 28
Technical 25
Administrative 42
TOTAL 233

HGA Engineering, in addition to serving clients through the full-service A/E approach, has a broad independent client base. HGA engineers pride themselves on using their creativity and innovation to develop workable, cost-effective solutions to engineering challenges. Each discipline is highly capable and intent upon providing the best possible service to all clients.

- 3M, Corporate Administration Building and Cafeteria Building, St. Paul, MN; Northern States Power Company, Eau Claire and LaCrosse, WI; IBM Campus, Rochester, MN; Metropolitan Waste Control Commission, Minneapolis, MN; Iowa-Illinois Gas & Electric, Davenport, IA

**KRECH, O'BRIEN, MUELLER & WASS, INC.**
6115 Cahill Avenue
Inver Grove Heights, MN 55076
Tel: 612/451-4605
Fax: 612/451-0917
Established 1985

- Jim Krench
- Dan O'Brien
- Brady Mueller
- Brian Wass

Firm Personnel by Discipline
Structural Engineers 2
Architects 5
Technical 5
Administrative 1
TOTAL 13

Structural engineering for commercial, industrial, medical, retail, agri-facilities and residential projects. We offer Auto-CAD and have a current library of structural design software. Services are provided for architects, owners, contractors, and various agencies.

- Nahan Printing, St. Cloud, MN; Tappemark Corporation, West St. Paul, MN; Inver Grove Heights Veterans Memorial Community Center, Inver Grove Heights, MN; Bester Bros. Moving, South St. Paul, MN; Genex/Land-O-Lakes Containment Facilities, Nationwide
LARSON ENGINEERING OF MINNESOTA
3524 Lahoe Road
White Bear Lake, MN 55110
Tel: 612/481-9120
Fax: 612/481-9201
Established 1978
Other Offices: Naperville, IL; and Appleton, WI

Lee A. Granquist PE
Henry W. Voth PE
Kesh P. Randurel PE

Firm Personnel by Discipline
Civil Engineers 1
Structural Engineers 11
Technical 4
Administrative 3
TOTAL 19

Larson Engineering provides structural and civil design for commercial, governmental and institutional buildings. We provide structural design of curtainwall systems for architects and contractors. Structural design of bridges along with civil engineering for building sites and roads. We provide complete engineering and design for industrial-related structures of all types including manufacturing, processing and storage facilities. Expertise in grading and material handling systems including unloading, storage, weighing and loading systems.

Jackpot Junction Casino, Morton, MN; Hutch Technology Center, Hutchinson, MN and Eau Claire, WI; St. Louis County Jail, Duluth, MN; Plymouth City Hall and Administration Building, Plymouth, MN; St. Benedicts Student Center, St. Joseph, MN

MAXIM TECHNOLOGIES, INC.
662 Cromwell Avenue
St. Paul, MN 55114
Tel: 612/645-3601
Fax: 612/639-7348
Established 1938

Other Offices: Rochester, MN

Marc Shannon PE
Tracy Toepfer PE
John Stieben PE
Sam Ng PE
Steve Olson PE

TOTAL STAFF 5

Structural engineering services for all building types in the areas of industrial, commercial, religious, institutional, residential, manufacturing, as well as specialized structures for water and wastewater plants. Full range of services including feasibility studies, investigations, construction documents, cost estimates, and field observations.

Bethany Chapel, Mankato, MN; Lyndale Shops, Minneapolis, MN; Office Depot Retail Store, St. Louis Park, MN; Monticello Middle School, Monticello, MN; Dakota Magic Casino and Hotel Complex, Hankinson, ND

MATTSON/MACDONALD, INC.
1516 West Lake Street
Minneapolis, MN 55408
Tel: 612/827-7825
Fax: 612/827-0805
Established 1983

Wesley C. Mattson PE
David H. Macdonald PE

Firm Personnel by Discipline
Structural Engineers 4
Other Professional 2
Administrative 1
TOTAL 7

Mattson/Macdonald provides structural engineering services to architectural firms serving the five-state Midwest area. Mattson/Macdonald has considerable experience with a wide range of building types: housing, retail, office, manufacturing, hospitals, churches and institutional facilities.

Mille Lacs Indian Museum, Garrison, MN; Kanabee County Hospital Expansion, Mora, MN; Redwood Falls Public Library, Redwood Falls, MN; Theater De La Jeanne Leune, Minneapolis, MN; Corpus Christi Catholic Church, Roseville, MN

McCONKEY & ASSOCIATES, INC.
3144 Hennepin Avenue S.
Minneapolis, MN 55408
Tel: 612/822-6950
Fax: 612/822-2335
Established 1978

H. James McConkey PE
Richard W. Johnson PE

Firm Personnel by Discipline
Structural Engineers 3
Technical 2
Administrative 1
TOTAL 6

Structural engineering consulting services for commercial, industrial, institutional, public and residential building projects; Special design for bins, stacks, equipment supports, material handling, rehabilitation and remodeling of existing structure. Structural investigations and reports. Licensed in 23 states.

MCBURNIE & GRIFFITH, INC.
2500 Park Avenue E.
Minneapolis, MN 55404
Tel: 612/377-7200
Fax: 612/377-7204
Established 1928

Other Offices: Milwaukee, WI; Des Moines, IA; Minneapolis, MN; Dallas, TX

John M. MCBurnie PE
Terri Griffith PE

TOTAL STAFF 7

US West Market Street Facilities, St. Paul, MN; Mayo Foundation - St. Joseph's - East Cardiovascular Stress Center, Rochester, MN; United Hospital Patient Focus Care Centers, St. Paul, MN; United HealthCare Corporation, Edina, Minneapolis and Golden Valley, MN; Gustavus Adolphus College, St. Peter, MN; Grand Casino Hinckley and Grand Casino Mille Lacs, Hinckley and Mille Lacs, MN

Maxim Technologies, Inc./Twin City Testing provides QA/QC testing for all types of construction projects including geotechnical engineering, construction materials testing, drilling and failure analysis. Additional services include environmental consulting, materials testing and analytical chemistry. Maxim offices total 53 nationwide with Minnesota offices located in St. Paul and Rochester.

Maple Grove High School, Maple Grove, MN; Midway Market Place, St. Paul, MN; Sears, Mankato, MN; Faribault Elementary School, Faribault, MN; Hopkins Schools, Hopkins, MN
MEYER, BORGMAN & JOHNSON, INC.
810 Plymouth Building
Minneapolis, MN 55402
Tel: 612/339-0713
Fax: 612/337-5325
Established 1955

John E. Meyer PE
Roland V. Johnson PE
Richard E. Wiele PE
Daniel E. Murphy PE
Michael J. Ramper PE

Firm Personnel by Discipline
Structural Engineers 13
Technical 6
Administrative 2
TOTAL 21

Single discipline consisting of Structural engineering services applied to the design of commercial, educational, industrial, medical, recreational, religious, and residential facilities.

Fredrick R. Weisman Art Museum, University of Minnesota, Minneapolis, MN; St. Paul High School, St. Paul, MN; Dayton's, Maplewood, MN; H. B. Fuller Willow Lake Campus, Vadnais Heights, MN; West Health Campus, Plymouth, MN

OSM AND ASSOCIATES, INC.
300 Park Place East
5775 Wayzata Blvd.
Minneapolis, MN 55416-1228
Tel: 612/595-5773
Fax: 612/595-5773
Established 1992

Other Offices: Eau Claire, WI

Jack L. Hunter PE
Jerry A. Turner AIA
Edward J. DeLaForest PE
F. Dennis Hall PE

Firm Personnel by Discipline
Civil Engineers 13
Structural Engineers 3
Mechanical Engineers 12
Electrical Engineers 8
Other Engineers 9
Architects 6
Other Professional 8
Technical 72
Administrative 21
TOTAL 151

Engineers, Architects, Planners and Surveyors providing services to the medical, educational, industrial, commercial, and governmental sectors. Specific Services include: mechanical, electrical and structural engineering, architecture, municipal, water resources, transportation and environmental engineering, land surveying and landscape architecture. Full Service, Client-oriented Firm, experienced with multi-disciplinary projects. Complete project capabilities in-house.

SCHOELL & MADSON, INC.
10580 Wayzata Blvd., Ste. #1
Minnetonka, MN 55305
Tel: 612/546-7750
Fax: 612/546-9065
Established 1954

Esther and John Karwacki

Firm Personnel by Discipline
Civil Engineers 7
Other Professional 25
Technical 3
Administrative 2
TOTAL 40

Complete wetlands identification, classification, and delineation; EAWs, EBS and natural resource services; environmental site assessments, regulatory compliance and permitting; civil engineering, system studies, design and construction/contract administration; land surveying, topographic, construction, and as-built surveys; quality control soil testing.

ROSINO II Business Park, Minnetonka, MN; Laurel Village, Minneapolis, MN; Restoration of Historic Main Street, Minneapolis, MN; Hills of Owasso, Roseville, MN; Cedar Pass, Minnetonka, MN.

SHORT ELLIOTT HENDRICKSON INC. (SEH)
3535 Vadnais Center Drive
St. Paul, MN 55110
Tel: 612/490-2000
Fax: 612/490-2150
Established 1927

Other Locations: Minneapolis and St. Cloud, MN; Madison and Chippewa Falls, WI and Lake County, IN

Donald E. Lund PE
Gary R. Gray PE
Richard A. Olsen AIA
Robert F. Pauly AIA
Bradley E. Forbrook AIA

Firm Personnel by Discipline
Civil Engineers 91
Structural Engineers 10
Other Engineers 35
Architects 20
Other Professional 22
Technical 74
Administrative 62
TOTAL 314

SEH is a multidisciplined A/E consulting firm offering services in Architecture, Civil Engineering, Environmental and Transportation. Specialty services include VRI Virtual Reality Computer Imaging and Public Involvement Programs.

Becker Community Center, Becker, MN; Charles A. Lindbergh Elementary School, Little Falls, MN; St. Cloud Regional Airport Terminal Building, St. Cloud, MN; I-35E/University Sewer Separation Project, St. Paul, MN; Stillwater Flood Control Project, Stillwater, MN

STS CONSULTANTS, LTD.
3650 Annapolis Lane, Ste. 120
Minneapolis, MN 55447
Tel: 612/559-1900
Fax: 612/559-4507
Established 1948

Other Offices: Deerfield, IL; Green Bay and Milwaukee, WI; and Lansing, MI

James H. Overtoom PE
Robert L. DeGroot CPG, PE
Douglas A. Spaulding PE

Firm Personnel by Discipline
Civil Engineers 4
Mechanical Engineers 1
Other Engineers 7
Other Professional 10
Technical 12
Administrative 6
TOTAL 40

STS specializes in geotechnical engineering, environmental engineering, water resources and construction engineering services. Our services include: environmental site assessments, remediation, stormwater management, air quality, and wetland construction, delineation and mitigation, landfill engineering, foundation design, erosion control, embankment stabilization, dam engineering, and materials testing.

Remediation of the Federal Courts Building Site, Minneapolis, MN; Remedial Investigation at TCAAP, Minneapolis, MN; Foundation design and Material testing for Pillsbury Tower, IBM Tower and City Center, Downtown Minneapolis, MN

MICHAUD COOLEY ERIKSON
333 South Seventh St., Ste. 1200
Minneapolis, MN 55402
Tel: 612/339-4941
Fax: 612/339-8574
Established 1946

Dean A. Rafferty PE
Monty L. Talbert, Jr. PE
Douglas C. Cooley PE

Firm Personnel by Discipline
Mechanical Engineers 40
Electrical Engineers 25
Other Engineer 1
Other Professional 1
Administrative 15
TOTAL 82

MCE designs mechanical, electrical, lighting, and special systems for corporate, medical, data processing, high-tech R&D, retail, industrial, educational, public, and commercial buildings. Examples of special systems include: security and surveillance, life/safety, fire protection, audiovisual and sound reinforcement, paging and intercom, cable or master television antenna signal distribution.

Directory of Consulting Engineering Firms
TOLTZ, KING, DUVALL, ANDERSON AND ASSOCIATES INC.
1500 Piper Jaffray
444 Cedar Street
St. Paul, MN 55101-2140
Tel: 612/292-4400
Fax: 612/292-0083
Established 1910

Duane Prew
James Vonen
Darrel Berkowitz
Robert Boyer
Wesley Hendrickson

Firm Personnel by Discipline
Civil Engineers 36
Structural Engineers 10
Mechanical Engineers 7
Electrical Engineers 4
Other Engineers 2
Architects 11
Other Professional 3
Technical 55
Administrative 24
TOTAL 147

A multidisciplined A/E firm offering services in civil, electrical, environmental, mechanical, structural and transportation engineering. Electrical, mechanical and structural building system design in support of our architecture department. Design of municipal utilities, highways, bridges, airports and railroads.

TH 212 Reconstruction, Eden Prairie, MN; Macalester College Field Expansion/Campus Way Construction, St. Paul, MN; Minneapolis/St. Paul International Airport Elevated Roadway Reconstruction, Minneapolis, MN; Wabasha Street Bridge Reconstruction, St. Paul, MN; Southeast YMCA, Woodbury, MN

WALKER PARKING CONSULTANTS / ENGINEERS, INC.
5775 Wayzata Blvd., Suite #25
Minneapolis, MN 55416
Tel: 612/595-9116
Fax: 612/595-9181
Established 1965

William C. Arons
Richard J. Kenney
Terrence A. Hakkola

Firm Personnel by Discipline
Structural Engineers 6
Architects 1
Technical 5
Administrative 2
TOTAL 14

Walker Parking Consultants provides programming, planning, and feasibility studies for parking structure projects including traffic impact statements and parking equipment selection. We also provide structural, mechanical, electrical, and durability engineering services. Our concrete restoration engineers develop specifications for the restoration of concrete structures and building facades.

Wells Engineers
123 North Third St., #203
Minneapolis, MN 55401
Tel: 612/332-6993
Fax: 612/332-2725
Established 1986

Shirley M. Walker
Frances M. Jordan
Charles J. Lewis

Firm Personnel by Discipline
Civil Engineers 2
Structural Engineers 1.5
Technical 1
Administrative 2
TOTAL 5.5

Complete Structural and Civil Engineering services providing prompt personal attention to each client's unique goals and requirements. Structural design experience includes a full range of buildings for commercial, residential, municipal, industrial, recreational, educational and specialty structures. Civil design includes roadways, bridges, drainage, site plans, tunnels and retaining walls.

Federal Express AGT&T Facility, Minneapolis/St. Paul International Airport, MN; Handicap Access for Pick and Edie Halls, University of Minnesota, Minneapolis, MN; Hennepin Parks Trail Bridges, Hennepin County, MN; Windom School Sound Abatement, Bloomington, MN; Marshall/Stellings Street Improvements, St. Paul, MN

WELLS ENGINEERS MINNESOTA, INC.
123 North Third St., #203
Minneapolis, MN 55401
Tel: 612/332-6993
Fax: 612/332-2725
Established 1986

Shirley M. Walker
Frances M. Jordan
Charles J. Lewis

Firm Personnel by Discipline
Civil Engineers 2
Structural Engineers 1.5
Technical 1
Administrative 2
TOTAL 5.5

Complete Structural and Civil Engineering services providing prompt personal attention to each client's unique goals and requirements. Structural design experience includes a full range of buildings for commercial, residential, municipal, industrial, recreational, educational and specialty structures. Civil design includes roadways, bridges, drainage, site plans, tunnels and retaining walls.

Federal Express AGT&T Facility, Minneapolis/St. Paul International Airport, MN; Handicap Access for Pick and Edie Halls, University of Minnesota, Minneapolis, MN; Hennepin Parks Trail Bridges, Hennepin County, MN; Windom School Sound Abatement, Bloomington, MN; Marshall/Stellings Street Improvements, St. Paul, MN

David L. Anderson
Paula S. Gustafson

Firm Personnel by Discipline
Civil Engineers 2
Structural Engineers 1.5
Technical 1
Administrative 2
TOTAL 5.5

Complete Structural and Civil Engineering services providing prompt personal attention to each client's unique goals and requirements. Structural design experience includes a full range of buildings for commercial, residential, municipal, industrial, recreational, educational and specialty structures. Civil design includes roadways, bridges, drainage, site plans, tunnels and retaining walls.

Federal Express AGT&T Facility, Minneapolis/St. Paul International Airport, MN; Handicap Access for Pick and Edie Halls, University of Minnesota, Minneapolis, MN; Hennepin Parks Trail Bridges, Hennepin County, MN; Windom School Sound Abatement, Bloomington, MN; Marshall/Stellings Street Improvements, St. Paul, MN

WOLF ARCHITECTS AND ENGINEERS
6 West Fifth Street
St. Paul, MN 55102
Tel: 612/227-7773
Fax: 612/223-5646
Established 1968

Michael Cox
Norman Glewwe
Kevin Sullivan
Craig Anding
Paul Juntilla

Firm Personnel by Discipline
Mechanical Engineers 10
Electrical Engineers 7
Architects 36
Technical 5
Administrative 12
TOTAL 70

HVAC system design, plumbing system design, fire protection systems engineering, energy management engineering, voice/data communications systems, media technologies, design and specification of primary/secondary electrical systems, and security system design.

High School #4, Rosemount/Apple Valley/Eagan, MN; Midlevel School #6, Rosemount/Apple Valley/Eagan, MN; Ramsey County Correctional Facility Phase II Renovations, Maplewood, MN; Steele County Law Enforcement/Judicial Facilities, Owatonna, MN; Wright-Hennepin Electrical Cooperative Engineering and Maintenance Facility, Rockford, MN
that area [of research] and was one of the pioneers in both experimental buildings [e.g. Princeton Professional Park, and some designs for Butler Manufacturing], as well as some pioneering work on how to analyze those kinds of buildings. The purpose there was to represent the physical phenomena in ways that it could be an active part of your design imagination, and not just numbers.

AM: Who were your heroes when growing up?

HF: Well, I certainly had the usual sports heroes, and some literary heroes. It wasn't really until I got into architecture that I gained professional mentors. I've been absolutely fascinated by the German and English pioneers of architectural history and theory, such as Rudolf Wittkower and Anthony Blunt, and another wonderful mentor was Victor Olgyay, author of Design and Climate.

AM: What would you say were your major accomplishments over the 10 years you've been head and then dean of the school of architecture at Minnesota?

HF: When I first came to Minnesota the faculty was almost entirely an adjunct faculty with a very small core of full-time faculty. Most of the lecture courses were taught by the adjunct faculty. The ratio is now close to 50-50 adjunct to full-time faculty. This has strengthened the full-time faculty impact on the lecture courses (and also in the studios, of course), but this has allowed them to have a research agenda for the core courses. At the same time I had a significant turnover in adjunct faculty so that we tried to develop and move a younger, emerging generation of practitioners into teaching positions. Thus the personality of the college has changed dramatically so that now there is a significant amount of research activity taking place within the college.

We've also increased the amount of funding for research. We've gone from approximately $1,500 per faculty member to $30,000 to $50,000. What that does is completely change the atmosphere of the school. Now 70 to 85 percent of the students are teaching assistants or research assistants and the faculty have significant funds to enhance their travel and attendance at conferences. I think I've tried to support the synergy between the full-time faculty and the adjunct faculty who bring their experience from professional practice into the classroom. It makes a good fit between the two.

We've also gone from $200,000 in total endowment funds (from the mid-1980s) to more than $7 million, and this has allowed us to create four endowed faculty chair positions. [These include two visiting critics or practitioners: one in architecture and one in landscape architecture. The other two are the director and assistant director of the Design Center for the American Urban Landscape.] And this funding has allowed us to increase the scholarships available to students.

This fund also enriches the school experience for students and has allowed us to attract leading thinkers and designers from around the country to come and stay for extended periods. This has been a terrific resource. Not only do these visiting faculty help with the teaching load, they stimulate the design and research interests of the permanent faculty.

I am especially proud of the visiting professorship endowment funds, and the creation of the Design Center for the American Urban Landscape headed by William Morrish and Catherine Brown.

In general the research activity at the college has tried to address some of the most interesting and pressing environmental challenges facing our society. The current faculty is much more engaged in work that relates to that need. These challenges include environmental issues, inner-ring suburbs, affordable housing, transportation issues, landscape restoration, using the environment as a means of revitalizing neighborhoods, and increase sensitivity to construction and materials as a form giver. All of these things are alive and well at CALA.

I've really tried to make CALA a school engaged in the community, not only with the research agenda and the design-studio problems presented to students, but also with the professional community. After all, the profession is one of our most important customers. I've tried to listen to their needs and to engage that community with the school. In that regard, I'm pleased that funds from alumni and the profession that go toward our annual giving campaign have grown from $3,000 to around $10,000.

While we've changed the faculty composition and increased interest in research, we've changed the curriculum. It has gone from a predominantly five-year bachelor of architecture professional degree to what we think is an innovative "one-plus-three" master of architecture degree, which is now the professional degree. I couldn't have done that without the collegiate structure. By having a department head, for both architecture and landscape architecture, the primary effort in running these departments was taken on by that person, freeing me to accomplish more.

With respect to research, there are still some relationships to be developed with the building-construction community. I'd like to see this area of research clustered with the urban-design and building-science stuff that we've started. If you want the profession [architecture] to maintain its value to society, it needs to recapture the understanding that architecture is also the art of building.

In general I've tried to engage the school with the issues of society, engage it with the profession and tried to increase its ability to be a more responsive and better partner in those areas. And, bottom line, my main focus has been to create a better environment for the students.

AM: What are your plans for UC Berkeley?

HF: I look forward to engaging that faculty and the local community in some of the same issues that I've been talking to this community about. I think I can bring a lot to Berkeley because it is my sense that the faculty and the college have been somewhat disengaged. I want to make sure that they really are addressing issues that are relevant to the society in the Bay Area, and that they really are and become players in the discussion and debate that must occur around important social issues. AM
insight
Continued from page 15

Dennis Walsh, a founding partner of the 11-year-old firm Walsh Bishop Associates concurs. “Not everyone will be a big designer,” he says. “We really only need 10 percent of the architects to be designers. We also need managers who can communicate with employees and clients. We need technically competent architects, and we need architects who actually understand construction. Students should be introduced to these choices early in their education so that they can take the courses that apply to their own talents.”

At Xerxes Architects, a typical day finds the partners working in three general categories. Haarstad handles marketing and design; Lechleiter manages projects and deals with contractors, consultants and existing clients; and Carroll handles a number of projects from start to finish. All three assume responsibility for such mundane housekeeping tasks as cleaning the office, making coffee and answering the phone.

“People don’t understand what it takes to run an architectural firm,” Lechleiter stresses. “It’s 90 percent work and 10 percent fun. We have a lot of respect for the work that goes into managing an office or preparing a proposal—we know what’s involved now, and how much time it takes.”

From the perspective of 25 years of experience, Walsh wholeheartedly agrees that mastering basic business practices is mandatory to success. “If we don’t understand business practices ourselves, how can we understand our clients?” Walsh says he believes that architects often “don’t know how to manage, so leadership roles have been taken away from us. We’re in the people business, but we fail to communicate either as speakers or as writers.”

John Cunningham of Cunningham Hamilton Quiter, P.A. offers a similar viewpoint, noting that architects’ problems often come from responsibilities they’ve dodged.

“Architects are shirking their responsibility of telling clients the real cost of a building,” he says. “We don’t explain the financial implications of our services, and we don’t understand what the financial picture is for our clients. We need to know the economic realities of our clients’ markets; and we need to understand why the rules are the way they are.”

Walsh agrees. “Architects don’t comprehend the bigger picture of a client’s situation. We need to talk business and understand finances.”

On marketing in architecture, all three firms focus on a client-centered approach. “We need to ask what clients are looking for from us,” says Walsh. “Marketing is as creative as architecture—you’re creating value for the services architects provide. Architects are good conceptual thinkers; we’re good at problem-solving. What we need to do is market those skills by demonstrating that we can create unique solutions to improve a client’s business. That means we should be involved in strategic planning, real-estate planning and technological advances—demonstrating that we’re business-oriented, not just design-oriented.”

So how can architecture respond to these issues? It’s clear that both Walsh and Cunningham have perspectives that are based on years of experience. The partners from Xerxes Architects offer the counterpoint of a new generation. All agree that the changes begin with architects working together because, as Cunningham says, “there is more work for architects to do than we can handle.”

Haarstad finds that there is more respect for architects outside of the building community than is perceived within. “There’s the romance of making something, and there’s respect for that,” he says. He agrees with partner Lechleiter, however, that within the building community “contractors are often taken more seriously than architects.”

Carroll notes that the fundamental problem is that “People think it’s either good service or good design. That’s a misunderstanding. Good service is a natural by-product of good design.” Walsh agrees. “Good design is part of our basic service—it’s not an additional item.”

Another potential component of positive change is revamping architectural education. “It’s adversarial,” Walsh says. “We’re taught criticism in school, and that’s what we learn—criticize, criticize, criticize.” Cunningham suggests that educators “teach architecture in an integrated way. Teach how it relates to ecology, finance, clients, structure. The focus can be broadened, not narrowed.”

Finally, architects must take an active role in public debates about planning and design issues. “We need to be civic leaders,” according to Cunningham. “We can be constructive about our suggestions, but we must stand up and let the city know when it’s making a bad design decision. We must take a position on public issues. And maybe we’ve got to be throwing ourselves in front of a few more bulldozers.”

sod
Continued from page 23

ing, grass side down, for 2-foot-thick walls. The McCones also laid every third or fourth layer crosswise to bind stacks together. They filled cracks with loose dirt. They set wood door and window frames into the walls as they laid the sod. McCones estimates he used more than 300,000 pounds of prairie sod to build the 30-foot by 21-foot house; 24,000 pounds are on the roof alone. The simple gable, wood-plank roof was first covered with tar paper and then with a 3-inch layer of sod, grass side up. (Poor settlers often just used pole rafters covered with brush and then sod—hence the leaks.)

Lumber salvaged from a 90-year-old flour mill in downtown Minneapolis’s Butler Square was used to build the floor, roof, window frames and door. McCones got the 112-year-old chimney bricks from the Anderheide kiln in New Ulm. Interior walls were whitewashed. The soddy is furnished with two double beds, fainting couch, tables, wardrobes and rocking chairs. In true pioneer style, there are wood-burning stoves for cooking and heat, pitcher and basin for washing, and oil lamps for lighting.

While the bed and breakfast replicates upscale pioneer housing, the more primitive 18-foot by 18-foot
dugout (constructed in 1938) offers a look at how those with less means settled on the prairie. The roof is made of peeled cottonwood poles, brush, slough grass and sod. The dugout has 2-foot-thick walls and a sleeping loft. But the dirt floor, crude furnishings and small interior suggest the difficulty of long winters spent in such cramped quarters, and the toll such times took on settlers like the pioneer wife depicted in O.E. Rolvaag’s seminal novel, Giants in the Earth.

“The sod house was an austere reflection of an austere life,” writes Jean Caspers in Compendium History of the Dugout and Sod House in Minnesota. “Times were hard and we can only with difficulty imagine that sod-house life could have been at all pleasant. But just as the pioneer devised sod houses to bear the assaults of nature, he also strengthened his spirit to meet the constant assaults on his constitution and resolution.”

Today in areas of Great Britain, France and Scandinavia “people still live in pits dug in the ground roofed over by poles and bark, sometimes extended above ground by walls of sod,” Kennedy writes. The ecology movement of the 1960s and ’70s sparked, with a nod at sod houses, an earth-sheltered housing boom that echoed around the world. More recently, the June 1993 issue of Architectural Digest featured a Montana ranch house sporting a sod roof “inspired by pioneer sod-roofed houses,” said the architect. But the McGone sod houses, for as along as they stand, are solitary reminders of a pioneer architecture and lifestyle that vanished, almost as quickly as it appeared, from the American landscape. AM
In 1890, when Andreas M. Miller, a rich Duluth lumber baron and railroad magnate, decided his city needed a prestigious theater, he quickly set the project in motion. To design this building, the Lyceum Theater, he hired Duluth’s busiest architectural team, Oliver G. Traphagen and Francis W. Fitzpatrick, who would also design such city landmarks as the Fitter’s Brewery, First Presbyterian Church, the Duluth Board of Trade and the Torrey Building.

The Lyceum, situated on Superior Street opposite the Spalding Hotel, became a massive Romanesque structure that was dubbed the “handsomest and costliest building in the Northwest.” Most of the 6-story exterior—rising to a seventh at the corner towers—was constructed from brick with sandstone corner quoins. On the lower two levels, however, Traphagen and Fitzpatrick alternated the sandstone and brick, and the triple-arched entrance was decorated with detailed carvings and ornamentation. A pair of stone lions guarded the front steps and several businesses occupied street-level storefronts.

Inside, the auditorium contained the largest stage in the Upper Midwest. Frescoes and bronze fixtures created “such a sensation in the beholder, as he gazes on the magnificent scene of gold and light, that he instinctively thinks of the story of Solomon’s temple and the story of Aladdin,” observed the Duluth Tribune upon the opening of the theater on August 3, 1891.

The Lyceum’s alleged resistance to fire was highly publicized. Years later, when Fitzpatrick left Duluth to advance his architectural career, he became known as “the father of the fire-prevention movement.”

Like many turn-of-the-century theaters, the Lyceum eventually became a movie palace. It also briefly housed Duluth’s first radio station, WJAP, in 1922.

Duluth’s Gateway Urban Renewal Project of the early 1960s spelled the doom of the Lyceum, along with many other buildings in the area. After the theater was razed, the lions went to the Duluth Zoo.

Jack El-Hai