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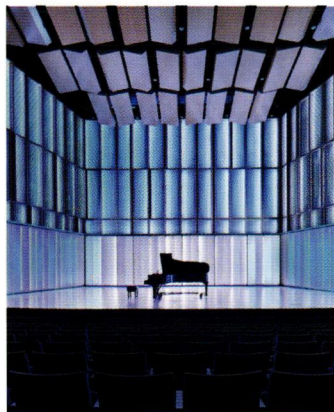
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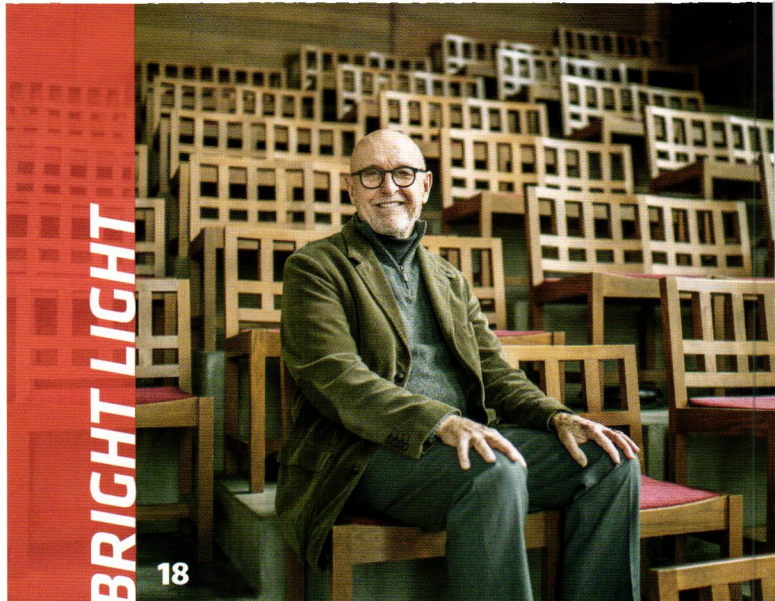
Architecture MN, the primary public outreach tool of the American Institute of Architects Minnesota, is published to inform the public about architecture designed by AIA Minnesota members and to communicate the spirit and value of quality architecture to both the public and the membership.



## ON THE COVER

Carleton College Music and  
Performance Commons  
Northfield, Minnesota

"Our team really enjoyed shooting the Music and Performance Commons," says photographer **Corey Gaffer**. "The rhythm of the exterior brick, the beauty and flexibility of the performance hall, and the seeming ease with which the addition is integrated into the Weitz Center for Creativity all add up to an inspiring environment for the Carleton community."



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By Joel Hoekstra

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By Joel Hoekstra

This past summer, Minnesota's Dream the Combine took over the MoMA PS1 courtyard in New York City with *Hide & Seek*, a site-specific architectural installation with some mind-bending dimensions.



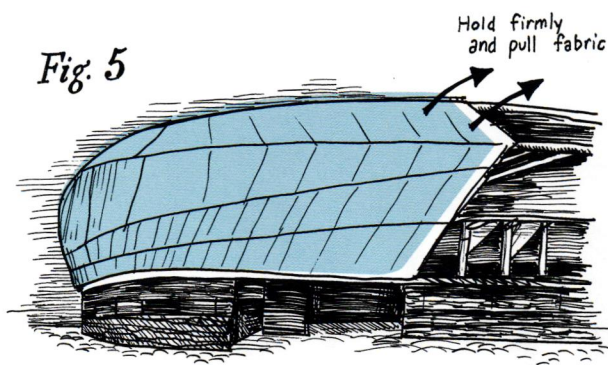
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# The Climate Imperative

In the context of these turbulent and troubling times, reading the October 2018 report from the United Nations Intergovernmental Panel on Climate Change or the 1,656-page National Climate Assessment can make you feel as if the universe is just piling on.

It's not just California wildfires and more frequent and powerful East Coast hurricanes. Here in Minnesota, mega-rain events are happening more frequently, Lake Superior is warming, and species of maple trees are creeping into the Northwoods where they've never been before. We are facing a near-term future where Minnesota's clean air degrades, agricultural and fishing-based economies are upended, and stormwater systems are overwhelmed.

It's tempting to turn away—to close the door, leave the baby crying inside, and walk away.

Neglecting these climate reports is indeed equivalent to neglecting our own children. It is, during these extreme times, also somehow understandable. Yes, I've had to put a screaming child in a crib and close the door for a while to gather my sanity. But the world is not going to exhaust itself and stop crying of its own accord. We need to recalibrate ourselves to our new, sustained reality and walk back through the door.

Humanity is capable of creating a resilient future. We already have the answers.

We already know that buildings consume about 40 percent of the energy in the U.S. each year. We know that buildings are responsible for almost 50 percent of the carbon dioxide in the atmosphere that traps solar energy and fuels climate change.

We also know how to design and operate buildings to be "net zero," where the energy used by a building equals the amount of renewable energy it creates. Better than that, an increasing number of architects know how to design and operate buildings to be "regenerative"—to create *more* energy than is used, energy that is carbon-free.

The AIA recently adopted a new standard within its code of professional ethics. AIA architects are now *required* to discuss the potential environmental and social impacts of their projects with their clients. (Great news: Most Minnesota-based architects need no code-of-ethics update to meet this requirement—they've been passionately working toward sustainable and resilient design for years.) If you are an architect, banker, financier, construction manager, HVAC operator, building owner, or user of a building, you can hold yourself and others accountable; you can reject short-term, short-sighted thinking and push for choices that better serve both our present and our future.

What we expect from our buildings and the many decision makers involved in creating and operating those buildings can have a tremendous impact on the pace and magnitude of climate change. Making better choices takes more than hope—it takes actively rejecting the lure of despair and recognizing the future we're already capable of creating.

Mary-Margaret Zindren, CAE  
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## INTERACT & CONNECT



Shida Du at Sky Peshier  
on Instagram  
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Affordable Housing  
Design Award video  
architecturemn.com/videos



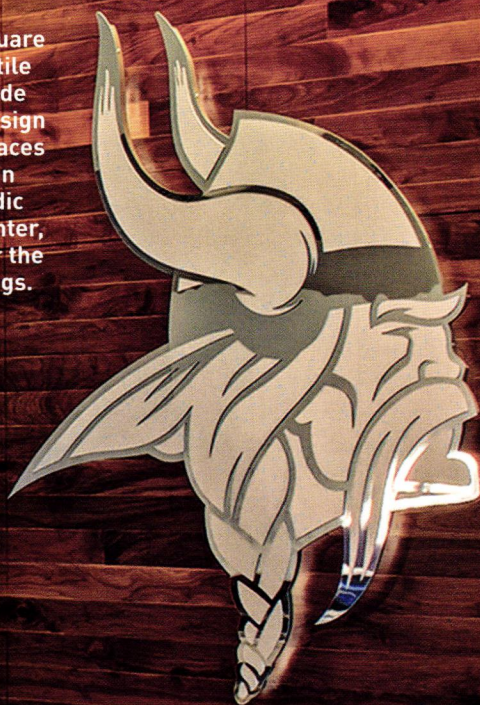
Chicago design travel  
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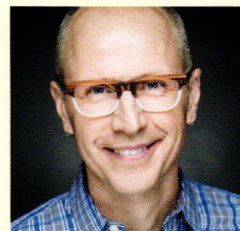
Mary-Margaret Zindren  
Executive VP

## CONTRIBUTORS

Get to know our writers and photographers.  
They're an interesting bunch.



**AMY GOETZMAN** is a Minneapolis freelance writer. She writes about the arts and culture and other inspiring things that happen in inspiring spaces.



**ERIC MUELLER** is a Minneapolis-based artist, photographer, and teacher. He loves simplicity.



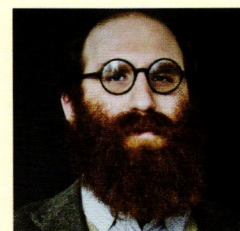
**SHERI HANSEN** is the American Institute of Architects Minnesota's director of communications, advocacy, and public outreach.



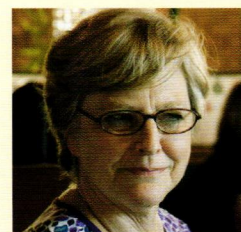
**JOHN REINAN**, a reporter for seven newspapers from Alaska to Florida, also spent nearly a decade marketing high-end architectural products.



Minneapolis writer **JOEL HOEKSTRA** contributes frequently to *Architecture MN*.



**ANDY STURDEVANT** is a writer and artist living in Minneapolis. He is the author of *Potluck Supper with Meeting to Follow* and *Downtown: Minneapolis in the 1970s*.



Minneapolis-based **LINDA MACK**, author of *Madeline Island Summer Houses: An Intimate Journey*, writes on architecture and design for local and national publications.



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PHOTOGRAPHY

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# Talk Time

## Two architecture firms get people talking with illuminating conversation events

Across professions, people are gathering to hear expert speakers and engage in thoughtful discussions on big topics. Call these events the children of TED Talks; there's no doubt that series, launched in the 1980s and boosted by YouTube in this century, has changed the way we explore issues. Minnesota architecture is particularly rich with opportunities for stimulating conversation. —Amy Goetzman



## Urban Currents

**WHAT:** Building Capacity in Our Communities to Adapt to Climate Change

**WHO:** Kristin Raab and Nissa Tupper

**WHERE:** Cunningham Group Architecture, 212 2nd St. SE, Mpls

**WHEN:** January 23, 5:30–7:00 P.M.



For Cunningham Group Architecture (page 18), the discussion forum isn't a trendy experiment. For the past 18 years, the firm's Minneapolis office has hosted Urban

Currents, a free bimonthly event at which speakers from a wide range of disciplines share ideas and lead a conversation about important urban issues.

It was created to help us understand the unique culture and factors that contribute to the quality of life in Minnesota," says marketing manager Rebecca Nash. "People really embraced the series, and it's become an ongoing part of the local architecture conversation."

Recent topics have included e-scooters, bike lanes, arts in the built environment, and how hosting the Super Bowl impacted the Twin Cities.

## Next Design

**WHAT:** Water as Risk and Resource:

Climate, Water, and the Built Environment

**WHO:** Speakers to be announced

**WHERE:** WORKSHOP, 1230 Quincy St. NE, Mpls

**WHEN:** February 28, 5:00–7:30 P.M.



MSR

MSR Design's Next Design series features a new theme each year and investigates the topic from a variety of architecture-focused perspectives. The first

year, Next Design speakers explored generative design. The second year, it was equity in design. The 2019 theme is water.

"Water isn't always considered a precious resource in Minnesota, where access to fresh water is abundant. But water *should* be treated as precious," says MSR principal Traci Lesneski, Assoc. AIA. "We want to examine innovations related to water use and the built environment, our profession's assumptions about water, and how design professionals' actions influence water quality and human health."

**WORKSHOP** in Northeast Minneapolis is one of the artful settings for Next Design forums.

**"Architects have to be so adaptable to what's happening in the world.** Our profession is built on relationships and ideas, and these face-to-face events help bring perspectives and information from areas of society that are impacted by architecture."

—Rebecca Nash,  
Cunningham Group  
Architecture

# DESIGN DIRECTOR

Dean **Carol Strohecker** brought a love of learning and a unique interdisciplinary perspective to the University of Minnesota College of Design in 2017. *Architecture MN* sat down with her for a look back on her first year and a look ahead that includes programming, research, and celebration of the first 15 years of the College of Design.



INTERVIEW BY SHERI HANSEN PHOTOGRAPH BY CHAD HOLDER

**As you reflect on your first year as the dean of the College of Design, what are some highlights for you?**

It's been a year of learning, which I enjoy. I now know most people's names, and I don't need GPS everywhere I drive; these are small things that make for a good foundation for getting some work done. I'm also getting to know the academic programs and people at the U. I'm on the Twin Cities Dean's Council. This year, I'm also on the president's Senior Leadership Team, which is giving me important context for understanding things that are happening in the college.

The biggest thing from the past year has been engaging our strategic-planning process. We call it Coordinated Action Planning, or CAP for short. Through that process, throughout the spring, we engaged a wide array of stakeholders—students, faculty, staff, alumni, retired faculty, members of community groups, and firms with whom we work. And by listening to all of them, we now have a wonderful trove of data suggesting ways forward. The most frequent message we heard in those sessions was one of unity for the college, and we are talking about trying to embody that in some sort of “common core” curriculum.

**What do you bring from your previous work as vice provost at the Rhode Island School of Design to developing and improving interdisciplinary programming in this college?**

Inclusion of multiple perspectives is inherent in interdisciplinary work, essential to good design, and key to addressing 21st-century problems. RISD, like many institutions of higher education, has some pretty well-developed silos of disciplinary focus. So, the discussion there is about how to better connect the disciplines. Where

interdisciplinary work happens most strongly at RISD is in the freshman foundation-year program. Members of the College of Design share this desire to hold strongly to our disciplines while better connecting them.

I also draw heavily on my experience at MIT. At MIT's Media Lab, they brand themselves as “anti-disciplinary.” Their use of the term isn't quite tongue-in-cheek, but they understand that it rides on the edge, and that's part of the ethos. I loved the experience as a graduate student at MIT and then in Media Lab Europe. I led a research group around the notion of everyday learning. We can learn anytime, anywhere, throughout our lifetime.

Students in our working groups had a lot of latitude to choose the team members best suited to projects, from computer scientists to graphic designers, to anthropologists, to urban designers and developers. Project by project, the mix of people would change, and we were able to be very responsive to the stated needs because of the way in which the broad research agenda was framed. I think the value of interdisciplinary work is not just in mixing things up for the sake of it, but in really working with a clear direction and useful outcomes in mind.

**How are you working to foster the broader design mindset across several programs and two campuses?**

The idea of making the college “whole” pertains to a shared identity, an overall esprit de corps, and better connecting our physical spaces and programs. We are working on all of that.

The notion of a common-core curriculum is a significant concept we're exploring to help bridge the gaps. It might mean

**“THE IDEA OF MAKING THE COLLEGE ‘WHOLE’ PERTAINS TO A SHARED IDENTITY, AN OVERALL ESPRIT DE CORPS, AND BETTER CONNECTING OUR PHYSICAL SPACES AND PROGRAMS. WE ARE WORKING ON ALL OF THAT.”**

a foundation freshman year, or only a semester. Maybe it's only one well-positioned course. Perhaps it's a full year, and it's the senior year. As we have those conversations and begin to implement the ideas in our different curricula, my theory is that the experience of transfer students will also improve. Our CAP research was a first step toward developing some sort of shared curriculum.

Another big thing that people are calling for is more social space, meaning time as well as place. I think if we take an open and welcoming approach to creating more social space, we'll get some interesting mixes of people, and over time that will help to improve the sense of social cohesion and shared identity among people in the college.

**You are not an architect, but you've worked to build connections to the local architecture community. How have Minnesota architects been helpful to you as you're working on your vision for the College of Design?**

My graduate degrees are from MIT, from programs in the Media Lab, in the department of architecture, which was the first design program at MIT. The founder of the Media Lab had gone through the architecture program. Bill Porter and Bill Mitchell, both former deans of architecture at MIT, were very important figures in my development of knowledge about all things design; Bill Mitchell, in particular, became something of a mentor. So, architecture is more familiar to me than people might realize at first blush.

>> continued on page 54



# PEOPLE + ARCHITECTURE

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**EW**  
Eric Mueller Photography

# Iversen Center for Faith

PROJECT COMPLETION: FALL 2020

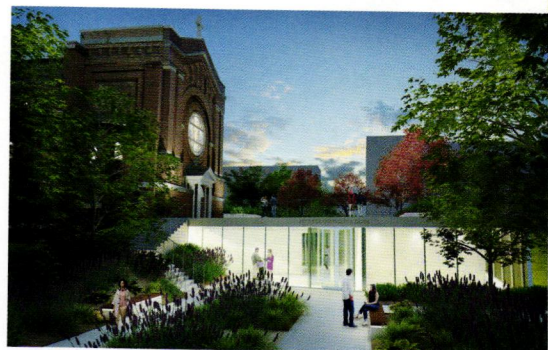
The University of St. Thomas will renovate its Chapel of St. Thomas Aquinas and expand it with a subterranean, 23,000-square-foot addition that puts the landmark church on a lighted pedestal

"The building's form was informed by the existing geometry of the quad, with **architecture and landscape working together** to emphasize the existing chapel," says Opus AE Group design director Ernesto Ruiz-Garcia, AIA. "The design intent is to blend the architecture of the addition into the landscape while shaping new outdoor spaces that create stronger connections to both the campus and the community."



OPUS AE GROUP

The historic Emmanuel Masqueray-designed chapel sits about six feet above the surrounding grade. That enabled the Opus AE Group design team to create an **on-grade entrance** at the northeast corner of the expansion, as well as direct access through a new amphitheater plaza. The addition's cast-stone accent bands will further link it to the chapel. ►



◀ The building is largely composed of **glass elevations** that follow the topography. Three skylights offer views of the existing chapel and emphasize the connection between the new and old structures. "We have a minimal material palette that predominantly consists of glass and grass," says Opus AE Group senior designer Katie Hughes.



**Project team:** Opus AE Group, LLC, architect, interior designer, and structural engineer; Opus Design Build, LLC, construction manager; Damon Farber, landscape architect



o much architecture performs  
or you. This room takes a step back  
o make room for your thoughts."

# Room with a View

Architect Shida Du finds uplift in the underground *Sky Pesh*

BY AMY GOETZMAN | PHOTOGRAPH BY ERIC MUELLER

Many visitors to the Walker Art Center and the Minneapolis Sculpture Garden never even notice one of the most astonishing works on the 19-acre campus. James Turrell's *Sky Pesh* doesn't stand out—it stands *under*. Or rather, visitors stand over it. Or they walk into it. Tucked into a hillside, this remarkable installation could be mistaken for a utility vent or a discreet staff entrance to the Walker. Shida Du, AIA, an architect with BWBR (page 24) in St. Paul, discovered *Sky Pesh* by accident years ago, when he was touring the garden with a class as a graduate student.

"I saw the cutout of an entry, and I thought it was another opening to the gallery," he says. Curious, he walked inside and discovered one of the Twin Cities' most special, almost-secret spaces. Just 16 feet square, the concrete-lined room offers a deeply contemplative reprieve from the city. Its only adornment, a large skylight opening, perfectly frames the ever-changing sky. A continuous bench is integrated into the perimeter of the room, and Du and his classmates sat down for perhaps half an hour to experience the piece. He's been back numerous times.

"It's not categorically architectural. It lies somewhere between fine art and architecture—a hybrid," he says. "The space has several very subtle nuances that are artistic and ergonomic. The walls are slightly tilted toward the sky, and the benches seem to be as well, so your attention is directed to the ceiling."

*Sky Pesh*, one of several Skyspaces designed by Turrell, also has otherworldly sonic qualities. It's hosted small concerts and weddings, and Cantus, a men's vocal ensemble, has recorded inside it. During his first visit, Du noticed that he and his classmates lowered their voices in response to the echo effect the chamber created. "It's not conducive to long

conversations! But it does filter out the daily noise of the world, and that allows you to reflect," says Du. "So much architecture performs for you. This space takes a step back to make room for your thoughts. In practice, the mission of architecture should be to form a space to accommodate something higher."

"Something higher" doesn't have to mean something bold or grandiose, says Du. "Most shelters are built so that families can dwell and prosper," he says. "Architecture is sometimes instead about ego, economics, and public attention. Perhaps it shouldn't be about itself but about the life that occurs inside."

Du is the winner of the 2018 Ralph Rapson Traveling Fellowship design competition. He plans to spend six weeks in Nepal and China's Sichuan Province to observe how the two countries have approached rebuilding after devastating earthquakes. China relocated the entire population and built new. Nepal, home to 12 UNESCO World Heritage sites, is rebuilding slowly. "This allows Nepal to continue without losing the nuance, richness, and essence of ordinary life," says Du. "It could be a model for American society as we struggle to accommodate housing after disasters and other situations. Building a new city, as China did, is an impressive undertaking. But it's meaningful to a culture to let some things remain the same."

Perhaps it's his appreciation of what endures that makes *Sky Pesh* such an inspiring space for Du; the chamber's simplicity amplifies the life around it. "The piece itself is always the same—so still and constant," he adds. "But that opening makes it a dynamic experience as the light, the weather, and the seasons change. Even time becomes a tangible force around you. *Sky Pesh* is a benchmark around which everything seems to move." **AMN**

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# Urban Fabric

Allianz Field revitalizes a material approach that has blemished local history

BY ANDY STURDEVANT

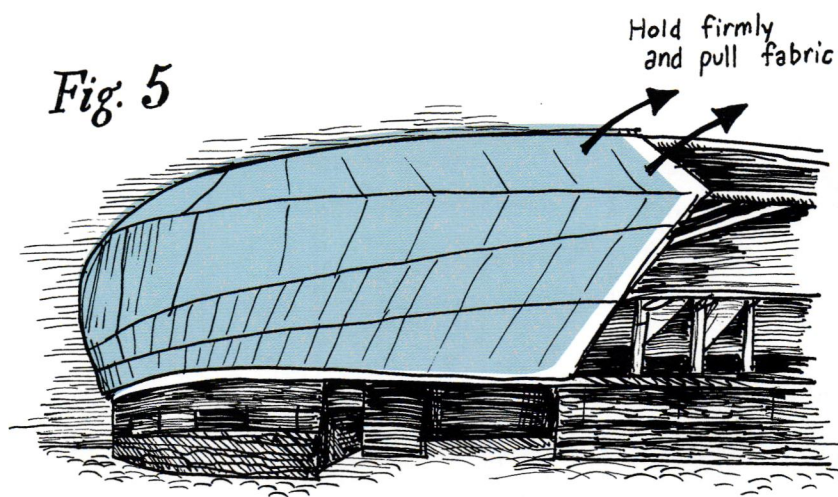
Back when the Twins were at the Metrodome, they used to have a graphic that would turn up on the scoreboard when an opposing pitcher walked a batter: a dead-eyed ghost, rendered in glorious orange LEDs, who'd peek up and say, in a drippy, horror-movie speech bubble, "WALKS WILL HAUNT!"

It wasn't just walks that haunted, though. Despite its cost-efficiency and—there is no other phrase for it—amiable idiosyncrasy, the Metrodome haunts the stadia of Minnesota from the grave. Not the beloved, 125-decibel hunderdome that hosted the 1987 and 1991 World Series, but the sad, old embarrassment whose final humiliation was the Teflon roof's biblical rending in twain under the weight of a snowstorm on a live cable-TV feed during its final season.

The stadia of Minnesota have been haunted by fabric. It's the inevitable elephant in the room when you talk about fabric and architecture in this state—an elephant draped in pillowy, white Metrodome Teflon into which baseballs disappear.

Which is maybe unfair to the old 'Dome, but that's the way it is. Bruce Miller, AIA, knows this. The lead architect on Allianz Field for Populous, the Kansas City-based firm developing the stadium for Minnesota United, Miller had to break the fabric-related aspect of the project to Minnesotans gently. "There was strong

Fig. 5



sentiment, let's say, against anything that had white fabric like . . ."

Here he pauses, choosing his words carefully: "Another fabric that another building in Minnesota used to have." Teflon will haunt!

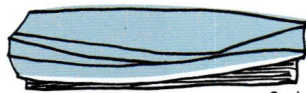
Miller continues: "There was a strong, almost visceral reaction when we said we were using fabric—we got a lot of pushback. We had to convince our clients that it would look different, that it would not be perceived in the same way, that the color would be different."

Indeed, it won't be perceived the same way. Fabric is a versatile medium, capable of being deployed in any number of ways. It doesn't always have to billow. The signature design element of Allianz Field, in the final stages of taking shape at Snelling Avenue and I-94 in St. Paul, is its taut, shimmering crown of polytetrafluoroethylene (PTFE) screen. In

daylight, it reflects the color of the sky above; at night, it glows when illuminated from within. It manages to look both elemental, acting as a link between earth and sky, and like some sleek, engineered surface from the not-so-distant future.

Appropriately for its use in a venue for soccer—the most international of sports—the PTFE screen gives the design a look that's very much in conversation with stadia across the world. It's a look that isn't going for the sheer bulk and brutality of U.S. Bank Stadium, or the nostalgia of a Fenway Park or Wrigley Field. A soccer stadium can be ethereal and cosmopolitan, using whatever materials might achieve those qualities. Go anywhere on earth, and you'll find stadia with no allergy to fabric as a viable material. From South Korea to Brazil, the last 20 years have produced soccer stadia with Teflon elements that create all types of forms, ranging from

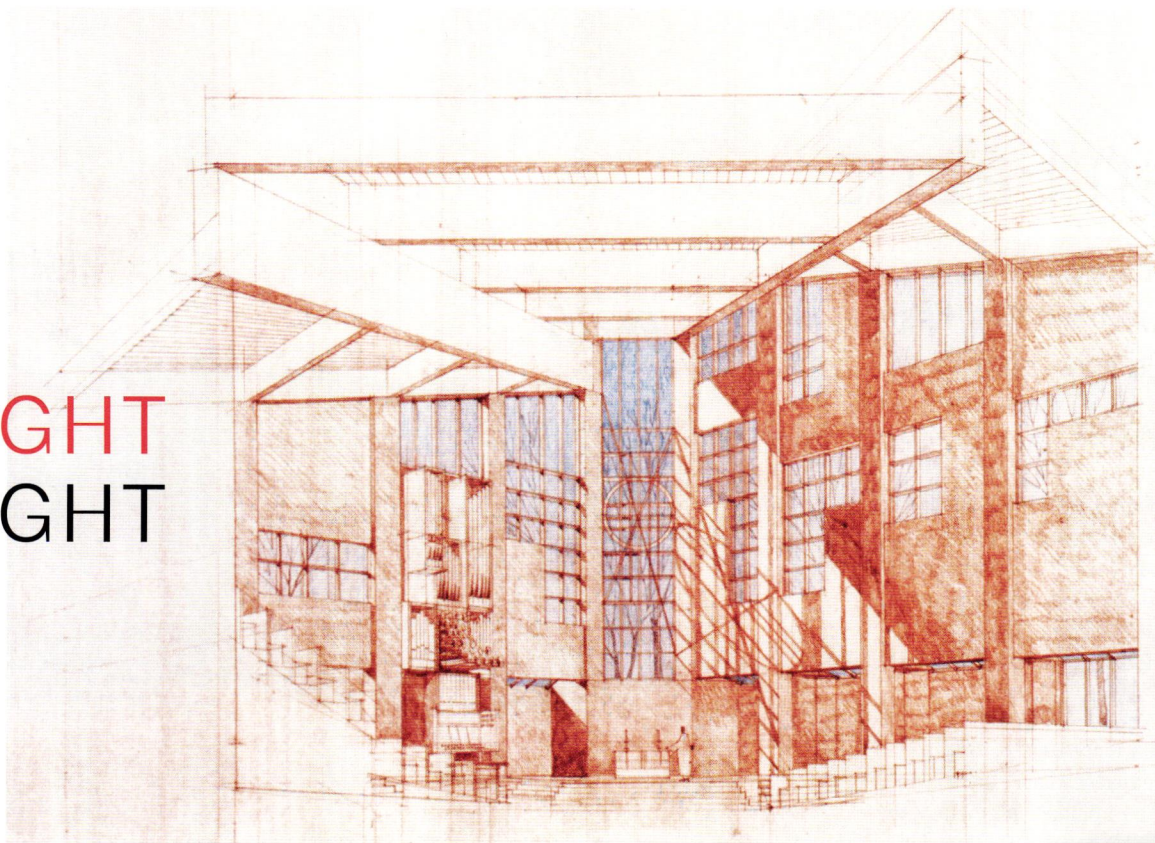
>> continued on page 45



NEXT: Finishing the fold for your completed stadium.

"We looked at a series of materials. A stainless metal panel, or this tensile membrane with sort of a cable-net facade, with something applied to it. We looked at changing the facade, but then we came across this fabric."

# BRIGHT LIGHT



## 2018 GOLD MEDAL AWARD

**When John Cunningham's firm moved** to St. Anthony Main in 1992, the Minneapolis riverfront was still an abandoned industrial landscape. "This whole complex was empty," says Cunningham. "Now, the area is on the brink of unimaginable growth."

Minneapolis' central riverfront could be a metaphor for Cuninghams Group Architecture. Established in 1968, just four years after its founder received his master's degree from Harvard University, the firm now employs 350 in eight offices, which stretch from the U.S. to Doha and Beijing.

While many firms founded by brilliant architects have soared and died—or been purchased—Cuninghams Group has weathered economic storms to flourish. The secret: the founder's commitment to nurturing the talents of others. "We give a lot of responsibility and a lot of ownership to our people, and it has been incredibly motivating," says Cunningham.

His assessment is mirrored by those who have worked there.

"John empowers people—young and senior designers alike—to be a critical voice in the design process," says Tim Dufault, FAIA, Cuninghams Group's president and CEO since 2007.

"John has always embraced diversity in the profession, from those early days in the 1970s when he took a chance on hiring a young woman architect like myself when there were few of us in the field," says JLG Architects' Linda McCracken-Hunt, FAIA. "He influenced diversity in the industry decades before it was on the table."

Cuninghams also recognized the importance of transitioning ownership. Today there are 38 owners. He retired on October 1, 2018, 50 years to the day after the firm was founded.

For these attributes and accomplishments and a host of others, John Cuninghams was honored in late 2018 with the highest individual award given to an architect in Minnesota—the biennial AIA Minnesota Gold Medal.

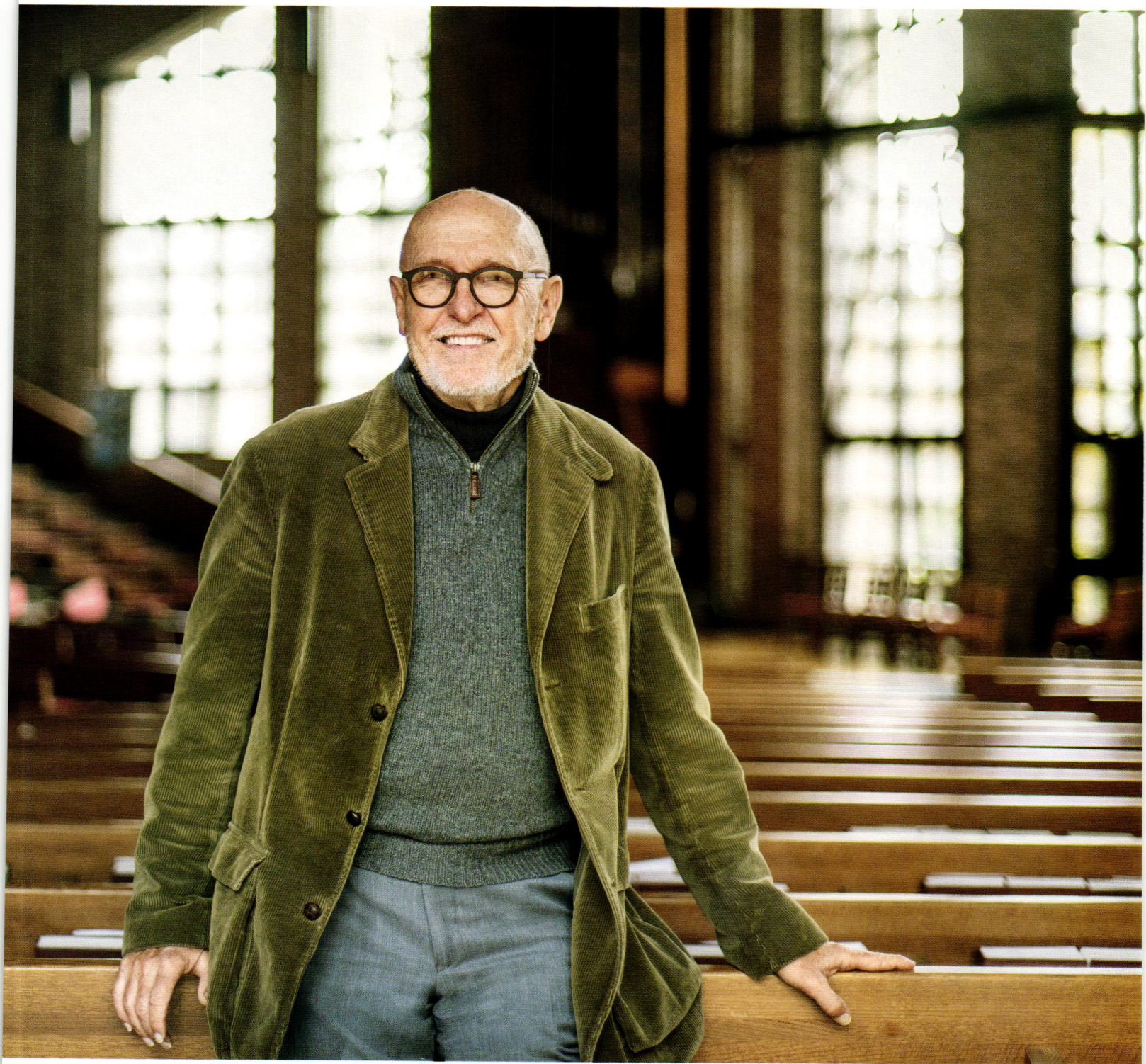
*Opposite: John Cuninghams in the Breck Chapel of the Holy Spirit. "I just love that it is the crossroads of the school," he says. Above: Cuninghams's original sketch of the space.*



CHAD HOLDER

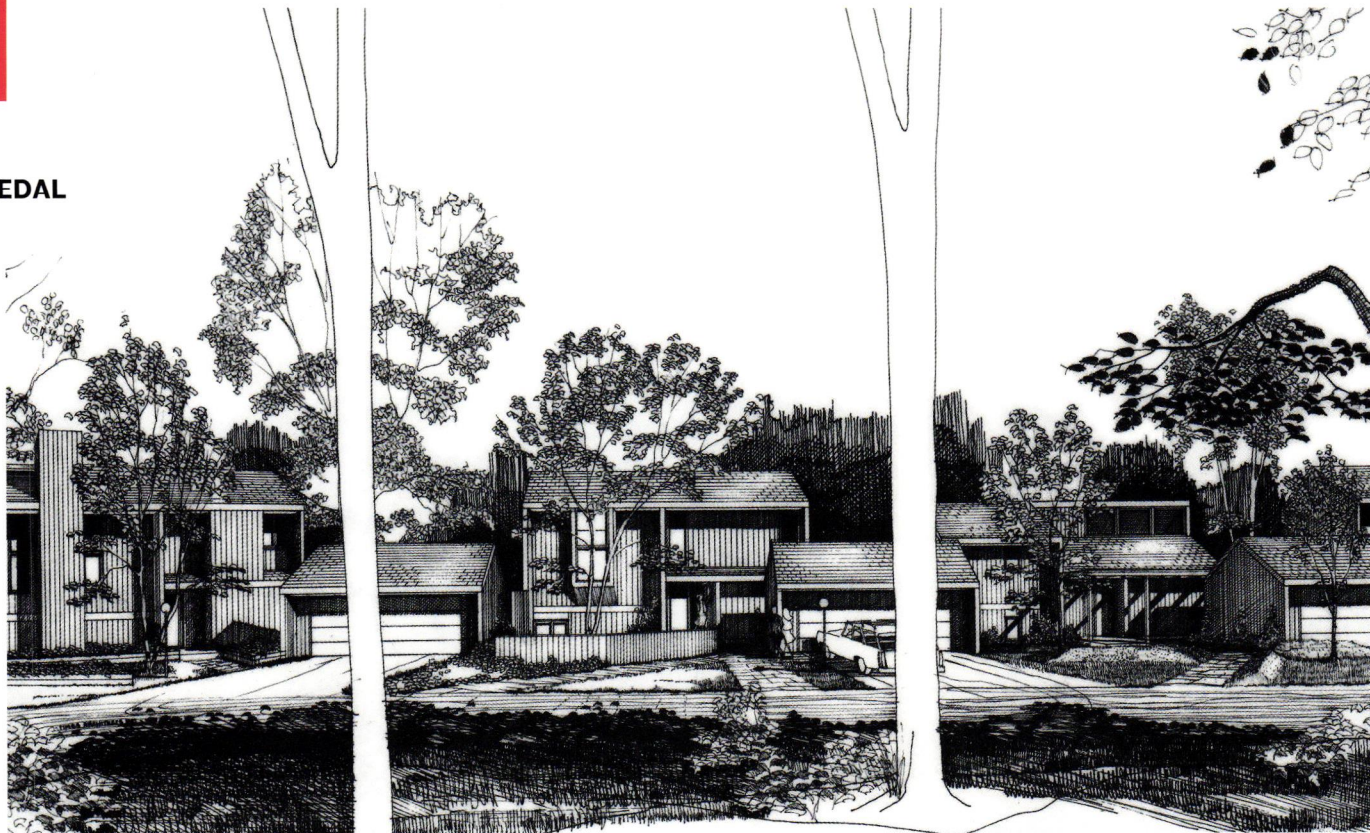
BY LINDA MACK

Cunningham Group Architecture founder **John Cunningham, FAIA**, is awarded the AIA Minnesota Gold Medal for his enormous impact as a designer and as a mentor to future leaders in the field





**2018  
GOLD MEDAL  
AWARD**



**"The environment John cultivated was collaborative and empowering to young architects, and it made an enormous impact on my development. He created a shared passion about the work and fostered the belief that design could profoundly change the world—particularly in K-12 education, in working with underserved communities, in the public realm, and around sustainability and urban issues."**

—JENNIFER YOOS, FAIA, VJAA

*Cunningham's drawing of the Chelsea Woods community in Plymouth, Minnesota, a project that won an AIA Minnesota 25 Year Award.*

**COMMUNITY AND LEARNING**

Cunningham's love of architecture was instilled at the University of Minnesota, where he studied and later taught under legendary dean Ralph Rapson, and studied under and later worked for modernist James Stageberg. "I was so lucky to have been in school at that golden time," he says. "They loved what they did. And I was just swept into it."

After teaching at the university for 17 years, he stepped down to focus on his practice, but he has always thought of the firm as "a learning organization." Highly regarded for its support for the profession's internship programs, the firm has always given employees time to study for their registration exams and covered the costs of the tests, says Dufault.

At the U, Cunningham also imbibed a philosophy of architecture as a civic activity. "Our profession is the primary steward of the built environment," he says. In 1996, the still-new Cunningham Group office at St. Anthony Main buzzed with activity as 10 visiting design firms—including two from the Netherlands—

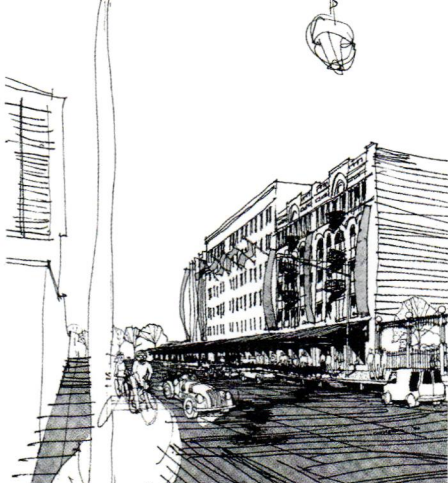
sketched visions for the Minneapolis riverfront. "That's one of my fondest memories," he says. "We wanted to make people aware of the assets."

The riverfront charrette gave rise to another firm initiative: Urban Currents (page 9), a monthly, open-to-the-public breakfast presentation by community leaders in transit, education, housing, arts, or culture. "I thought we would do it for a year," says Cunningham. "We're now in our 15th."

And each of the Cunningham Group offices in the U.S. adopts a community organization. As the firm celebrated its 50th anniversary in 2018, Cunningham visited each office, gave a talk about the firm's history, and saw each studio pursue a community project. In Minneapolis, employees packed lunches for the Sheridan Story, which fights child hunger.

"John is a citizen architect," says architect Mohammed Lawal, AIA, who worked at Cunningham Group before starting his own firm, LSE Architects.

Cunningham's sketch of the Itasca project in Minneapolis' North Loop.

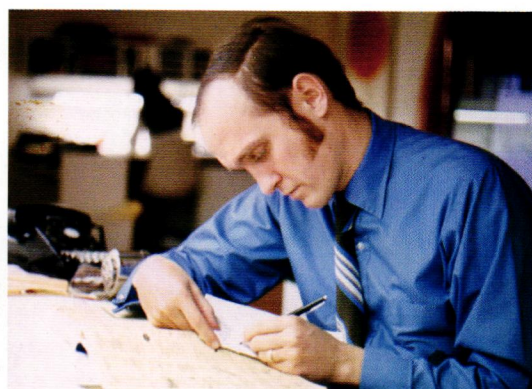


"John has always embraced diversity in the profession, from those early days in the 1970s when he took a chance on hiring a young woman architect like myself when there were few of us in the field. He influenced diversity in the industry decades before it was on the table."

—LINDA MCCracken-HUNT, FAIA, JLG ARCHITECTS



Early team spirit: a firm softball game, staff in 1978, and Cunningham at work circa 1968.



PROVIDED BY CUNNINGHAM GROUP ARCHITECTURE

# A STORIED CAREER

Of course, it's the practice of architecture itself that's driven Cunningham's career, from his first house designs to a quarter-century working for Epic Systems, the giant medical software company based in Verona, Wisconsin. "Everything I learned about architecture, I learned doing houses," he says. "Managing budgets, monitoring construction, working with owners. How to adjust the dreams to the pocketbook."

He also learned what developers need when he became co-developer of the Itasca in Minneapolis' North Loop, the first adaptive-reuse condominium project on the river. He moved his firm there in 1982, and, he notes, "We've been on the river ever since." Other favorite projects include Breck Chapel of the Holy Spirit in Golden Valley and the Episcopal House of Prayer in Collegeville (both winners of AIA Minnesota's prestigious 25 Year Award, which celebrates time-tested design) as well as the Fair School in downtown Minneapolis ("500 kids on one acre—I love it!"), Heinavara Elementary School in Finland, and the ongoing work at Epic.

Epic founder and CEO Judy Faulkner says she's been working with Cunningham Group since her company had 30 employees. Now with 10,000 employees on 1,000 acres, Epic boasts five themed campuses and an 11,000-seat underground auditorium called Deep Space, all designed by Cunningham Group.

"I wanted the auditorium underground so it wouldn't dominate the campus," says Faulkner. "John pointed to a hill and said, 'That's our 11,000-seat auditorium.'" A wide-span structure, Deep Space won the Associated General Contractors of America Grand Award for the best building built in the U.S. in 2014.

"It's been a good match between two people who think out of the box," says Faulkner of their long working relationship—and friendship.

"There's a bigger dimension to architecture. It's not just keeping people warm and dry," says Cunningham. "You know it when you see it. You're walking around and inside it, and what do you feel? It's uplifting." **AMN**

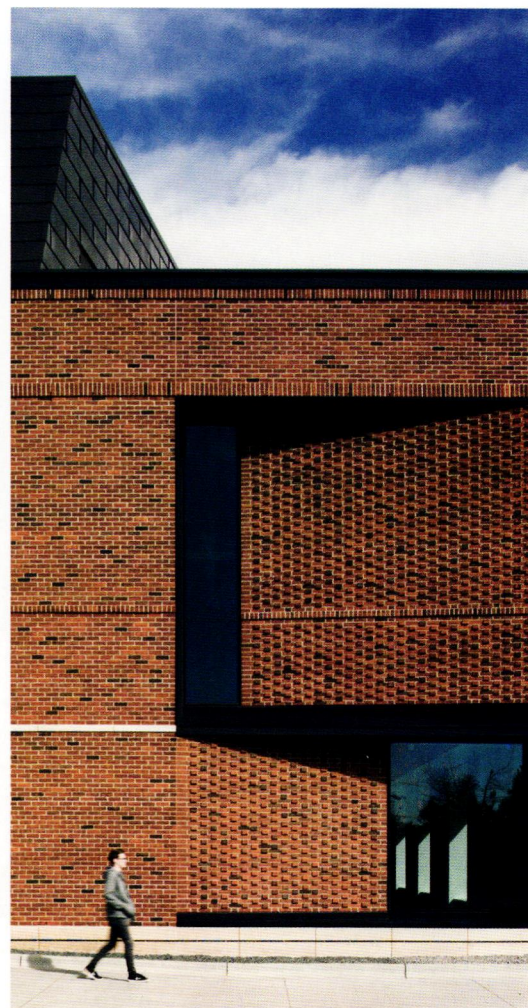
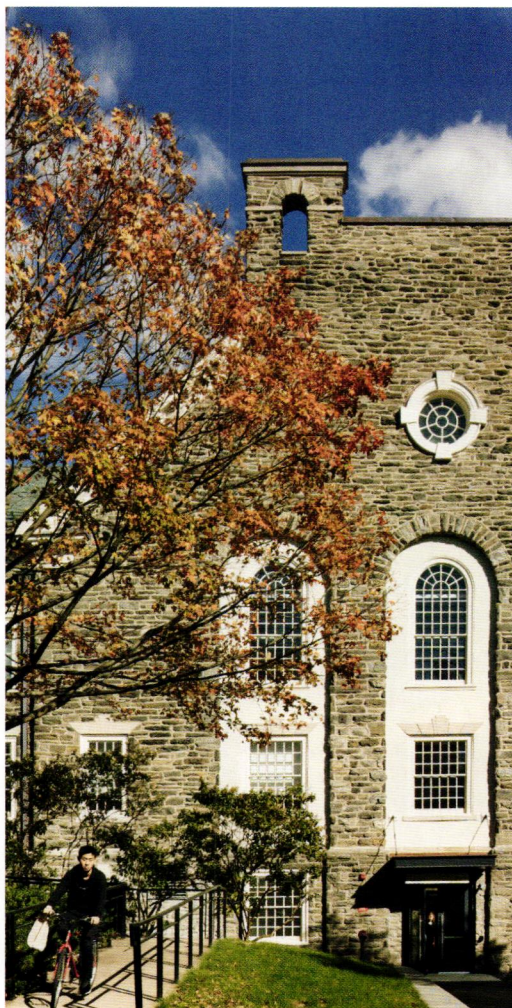
**"Twenty-five years ago, John graciously agreed to support and host Minneapolis' first-ever Architectural Youth Program, an after-school outreach effort that introduced minority, female, and at-risk students to architecture and the design arts. He participated in sessions when we visited his firm and provided great inspiration to the would-be designers."**

—MOHAMMED LAWAL, AIA, LSE ARCHITECTS

*The AIA Minnesota Gold Medal is one of the highest honors bestowed by the association. It recognizes individuals whose work has had a lasting influence on the theory and practice of architecture in Minnesota. Recipients are nominated by their peers in the field. John Cunningham is the 21st Gold Medal Award recipient.*



# Room&Board



**On Campus** When an established institution of higher learning expands or reinvigorates its campus with a new facility, a major addition, or an adaptive reuse, odds are it's a project worth paying attention to. That's because **21st-century colleges and universities** are in the business of engaging and inspiring young minds, and they need to make the most of their architectural opportunities. In the following pages, three schools aim high with their buildings for student athletes and creatives.



## University of Minnesota athletics take a quantum competitive leap forward with the new Athletes Village

By John Reinan

**Athletes Village at the University of Minnesota features two dominant views:** TCF Bank Stadium to the east and the downtown Minneapolis skyline to the west. One points to the present, the other to the future.

This \$166 million complex in the heart of Dinkytown was created to serve University of Minnesota athletes during their college careers, as well as prepare

them for their professional careers after graduation. The new facility is being called one of the best in the nation.

"When you have visiting players from powerhouse athletics programs complimenting Minnesota, you know you've done something right," says Greg Fenton, AIA, principal and senior vice president at St. Paul-based BWBR, the project's architect of record.

*The inviting entry plaza can be used for game-day rallies. The large "Minnesota" sign is the perfect spot for an Instagram moment for students and visiting recruits.*



*The Land O' Lakes Center for Excellence (above) and its soaring entrance hall (below). Signage and displays throughout Athletes Village celebrate the U's athletic history.*

“The first thing we always talk about when we’re talking with student athletes, whether they’re already here or we’re recruiting them, is that we want to provide a world-class experience.”

—University of Minnesota  
head football coach P.J. Fleck

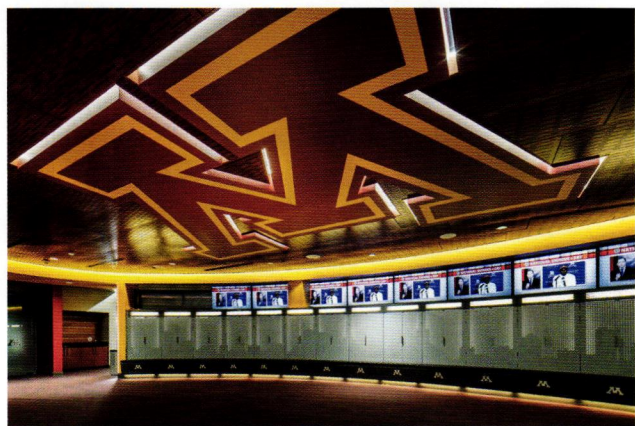




"The first thing we always talk about when we're talking with student athletes, whether they're already here or we're recruiting them, is that we want to provide a world-class experience," says University of Minnesota head football coach P.J. Fleck. "Athletes Village and the David and Janis Larson

Football Performance Center do all of that, and that is what makes this place really special. This isn't just an athletic complex or a football complex—this is a life complex."

As the university strives to build a highly ranked athletics program, Athletes Village is a key recruiting tool, especially in the big-money sports of football, men's basketball, and women's basketball. "You look at other universities around the country and see how they are escalating their efforts to attract Division I athletes. I think the U saw the need to be more competitive," says Tom Whitlock, president of Minneapolis landscape-architecture firm Damon Farber, which handled site planning and improvements throughout the village district.



#### UNIVERSITY OF MINNESOTA ATHLETES VILLAGE

**Location:** Minneapolis, Minnesota

**Client:** University of Minnesota

**Architect of record:** BWBR  
[www.bwbr.com](http://www.bwbr.com)

**Principal-in-charge:**  
Greg Fenton, AIA

**Project lead designer:**  
Daniel Treinen, AIA

**Associate architect:**  
RDG Planning & Design

**Experiential design:** Advent

**Energy modeling:** The Weidt Group  
[theweidtgroup.com](http://theweidtgroup.com)

**Landscape architect:** Damon Farber  
[damonfarber.com](http://damonfarber.com)

**Construction manager:**  
Mortenson Construction

**Size:** 337,400 square feet

**Cost:** \$166 million

**Completion:** January 2018

**Photographer:**  
Brandon Stengel, Assoc. AIA



“You look at other universities around the country and see how they are escalating their efforts to attract Division I athletes. I think the U saw the need to be more competitive.”

—Damon Farber president Tom Whitlock



The weight room (above) and team meeting room (left) are furnished with everything the student athletes need to prepare for competition.

From world-class medical care (opposite) to full-size indoor practice fields (top), Athletes Village offers the U's nearly 800 student athletes a facility that ranks among the best in the nation.

Scott Ellison, the U's associate athletics director for facilities and capital projects, smiles as he recalls the Athletes Village tour he gave to a Texas gymnastics recruit and her father. “I could tell the father was getting more and more despondent, because his daughter was getting more and more excited about coming to Minnesota,” he says. “She was dazzled.”

Recruits aren't the only ones dazzled by the village. “We had the Big Ten facility managers conference here this year,” Ellison adds. “They loved it. They loved how compact and how close to everything it is.”

With 337,400 square feet of new construction, Athletes Village brings together practice spaces, weight training, medical care, nutrition, academics, and recreation in a compact site designed to foster camaraderie among players. “We were trying to reinforce the sense

of community among the athletes,” says Al Oberlander, AIA, a principal with the Des Moines office of RDG Planning & Design, the associate architect on the project. “It becomes kind of the living room that brings all the athletes together.”

The architects also took pains to integrate the complex with the campus, creating a highly visible entrance on a busy Dinkytown street, along with a public plaza that can be used by students and fans. The entry plaza's signature piece is “Minnesota” spelled out in giant precast-concrete gold letters.

“We were looking for that Instagram moment for recruits,” says Sam Nolden, the village's director of operations. “You need to have features that will appeal to visiting 16- and 17-year-olds.”

The tight site, bounded by city streets and crisscrossed with railroad tracks, utility corridors, and easements, presented a

challenge that BWBR and RDG solved by going vertical. Athletic complexes at other major universities tend to be low, sprawling structures of one or two stories, often located far from the campus center. Athletes Village ascends to six stories at its highest point, and it includes an unusual stacking of the men's and women's basketball spaces.

Even with the vertical planning, distances between athletic activities are short. "It's pretty condensed, but a lot of thought went into connecting everything," says Whitlock.

The verticality also heightens the visual link to the downtown Minneapolis skyline, a soaring symbol of the corporate strength of the Twin Cities. "The siting and the views were purposely focused toward downtown Minneapolis to show what these athletes might experience after graduation," says BWBR's Fenton. "They use the phrase 'backpack to briefcase.'"

In the Land O' Lakes Center for Excellence, where that view is at its best, student athletes can connect to employment opportunities through seminars, CEO appearances, and career counseling. In the lobby of the sixth-floor Leadership Center is a touch screen listing all the Fortune 500 companies with a Twin Cities presence. Each company listing includes a roster of U student-athlete alumni working at the firm.

"Only two percent of Division I athletes will play professionally in their chosen sports," notes the U's Ellison. For the rest, the building's focus on academics and corporate networking gives them ample opportunity to succeed in their educational and professional pursuits. The new facility has 34 tutoring rooms, for example; previously, the athletic department offered only seven.

Although the village is primarily used by athletes, it features many public spaces.

*Throughout the complex, materials and finishes are durable and beautiful—but not over the top. "There's no Carrara marble in the lobby," one U official says with a chuckle.*





“The siting and the views were purposely focused toward downtown Minneapolis to show what these athletes might experience after graduation. They use the phrase ‘backpack to briefcase.’”

—BWBR senior vice president Greg Fenton, AIA



In addition to the plaza, which is open to all, walkways lead through the village to Jane Sage Cowles Stadium, the U's softball facility; Siebert Field, home of the Gophers baseball team; and the track-and-field stadium. The massive lobby is used for public events, and all U students, as well as members of the public, can dine in the nutrition center, which features an omelet bar, a panini bar, and grill and pasta stations.

Energy and environmental measures include solar panels and LED lighting throughout the complex. The project's tight site and complex programming required an innovative stormwater-retention plan that put some of the largest tanks in the area underneath the football practice facility.

The interior finishes are Minnesota Nice, says Nolden: “It’s well planned, functional, and beautiful, but it’s not over the top.” The design team sourced materials and furnishings from local vendors where possible, and thus the facility features Cold Spring granite, Sage electrochromatic glass, and Wenger lockers.

Ellison says Athletes Village is the project he’s most proud of in his more than 30 years in the U’s athletics department. “It’s got a wow factor,” he says, “and it benefits so many students.” **AMN**

*The dining hall (top) is open to all U students as well as to the public. The Leadership Center (above) offers career counseling and a dramatic view of the Minneapolis skyline.*



## At Haverford College, MSR transforms the interior of an old gymnasium into the Visual Culture, Arts, and Media Building, a maker space for every student on campus

By Joel Hoekstra

**A few years ago, Haverford College, a small liberal arts school outside of Philadelphia,** was looking to hire an architect, and English professor Laura McGrane was one of the project leads. As director of Haverford's Hurford Center for the Arts and Humanities, McGrane had been tasked with developing a center

focused on new media and culture. The Visual Culture, Arts, and Media (VCAM) Building would be a brick-and-mortar project, but it would be different from most other buildings on campus because it would be shared by everyone. "The project wasn't intended to house an individual department," says McGrane.

*An inventive adaptive reuse at Haverford College turns a much-loved but long-underutilized building into a reimagined, culture-rich campus landmark.*





Before

MSR

Above: The empty, pre-renovation gym with its suspended running track and exposed roof-truss system.

“The project wasn’t intended to house an individual department. We wanted to invite the full campus to think about what it means to work on, think about, and reflect on arts and visual culture.”

—VCAM director Laura McGrane



“We wanted to invite the full campus to think about what it means to work on, think about, and reflect on arts and visual culture.”

While the project was picking up steam, McGrane happened to visit Carleton College in Northfield, Minnesota, and got a tour of the Weitz Center for Creativity (page 36), an arts facility designed by MSR. The firm’s name rang a bell: MSR had also designed another project she admired, an arts building at Drexel University in Philadelphia. What’s more, both endeavors were inventive adaptive-reuse projects. McGrane had a hunch that MSR might be a good fit for what Haverford had in mind.

The Haverford campus is small, with just 1,300 students on 200 acres. Space for new construction was limited, but school officials wondered if VCAM might fit

into the Old Gym, a solid stone structure erected on the college’s central green in 1900. The building hadn’t hosted a sporting event in a half century—in fact, it hadn’t been used at all for several decades. Over the years, Haverford had asked several architects, including AIA Gold Medal recipient Stephen Holl, to draw up schemes for the building’s reuse, but nothing ever came of the proposals. “It was a building that was much loved but underutilized,” McGrane observes.

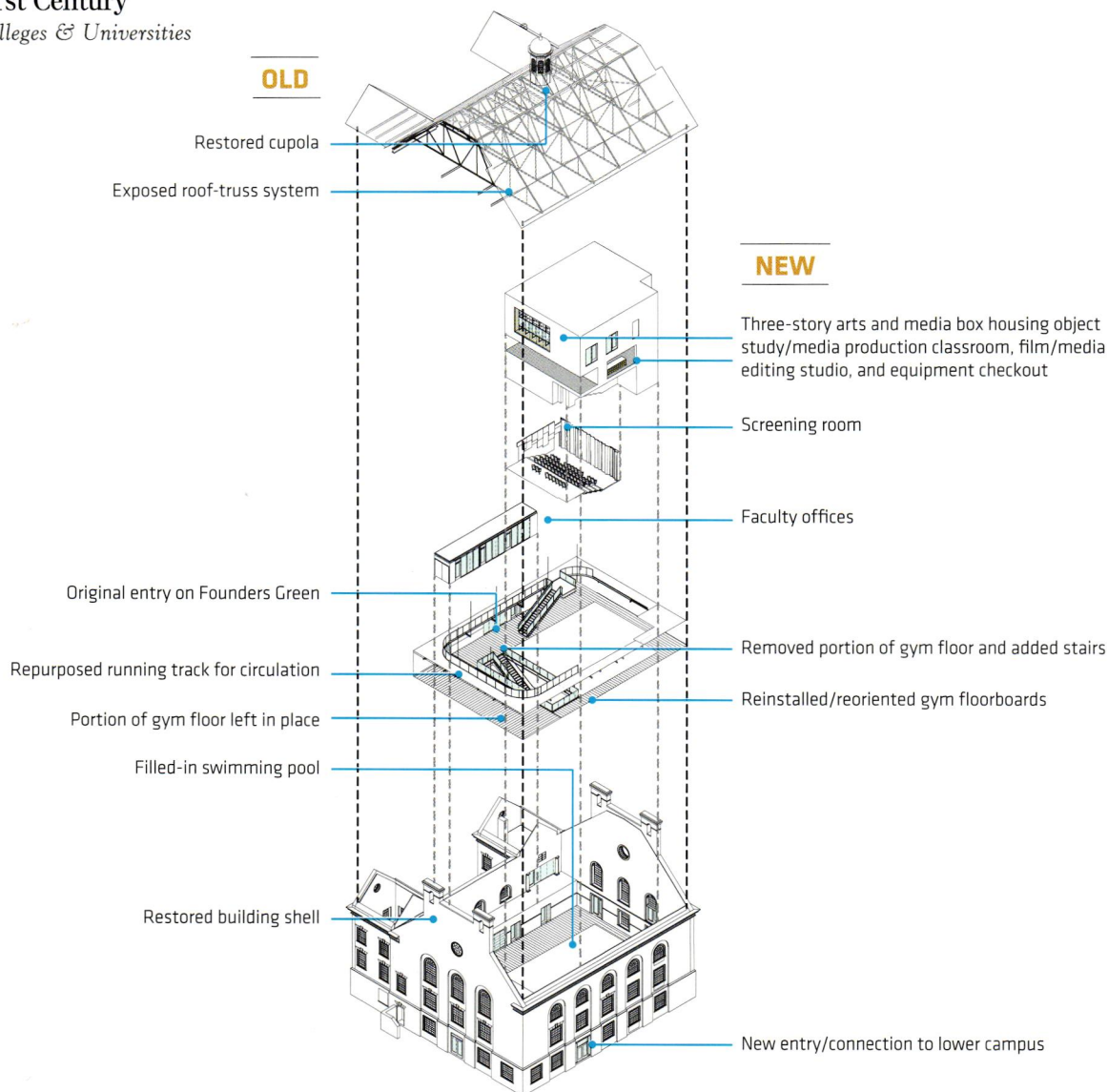
The program was challenging. Planners wanted VCAM to house both a screening room for films and a maker space where hammers, drills, buzz saws, laser cutters, and other noisy equipment could be used to cobble together almost anything a student might imagine. Additionally, the building needed to include a handful of classrooms and offices. And some lounge areas. And a working kitchen with

Above and opposite  
The Old Gym, built in  
1900, retains its historic  
exterior character  
but the interiors take  
inspiration from contemporary  
maker spaces



*Above and right: Despite its overall open aesthetic, VCAM also houses enclosed studio and study spaces and an intimate screening room.*





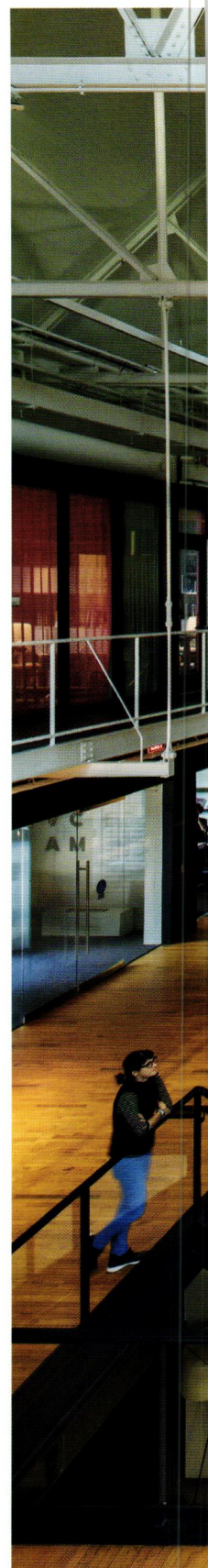
a refrigerator, range, and oven. "Food is part of the maker culture and experience," says McGrane. "Students really wanted a space where they could gather, eat, and build community."

Known for its innovative approach to adaptive reuse, MSR saw the Old Gym as an opportunity to meld past, present, and future. The interior of the three-story space was open, daylit by enormous arched windows. Thin, elegant trusses soared over the gym floor, while a suspended track ringed the perimeter. MSR found ways to preserve the character-defining elements, inserting a box into the space that met programming requirements without the need for additions. "We were in

continual communication to maintain a delicate balance between scope and available budget," says MSR principal Traci Lesneski, Assoc. AIA. "We tried to emphasize that bigger wasn't better—that quality and experience were key."

The resulting 25,000-square-foot building mixes open and closed spaces. Students can watch a quiet film in the 65-seat screening room totally unaware of the laser cutters and 3D printers being operated a short distance away. From up on the track, students nestled into comfy chairs can gaze down at a performance in the lounge area. Sightlines even extend into the basement: A cutout in

>> continued on page 45



*No wasted opportunities:  
A wall becomes a projection  
surface and a building  
becomes a gallery that can  
morph to meet changing needs.*



#### HAVERFORD COLLEGE VISUAL CULTURE, ARTS, AND MEDIA (VCAM) BUILDING

**Location:**  
Haverford, Pennsylvania

**Client:** Haverford College

**Architect:** MSR Design  
[msrdesign.com](http://msrdesign.com)

**Principal-in-charge:**  
Traci Lesneski, Assoc. AIA

**Project lead designer:**  
Dagmara Larsen, Assoc. AIA

**Energy modeling:**  
Bruce E. Brooks & Associates

**Landscape architect:**  
Haverford College  
Arboretum

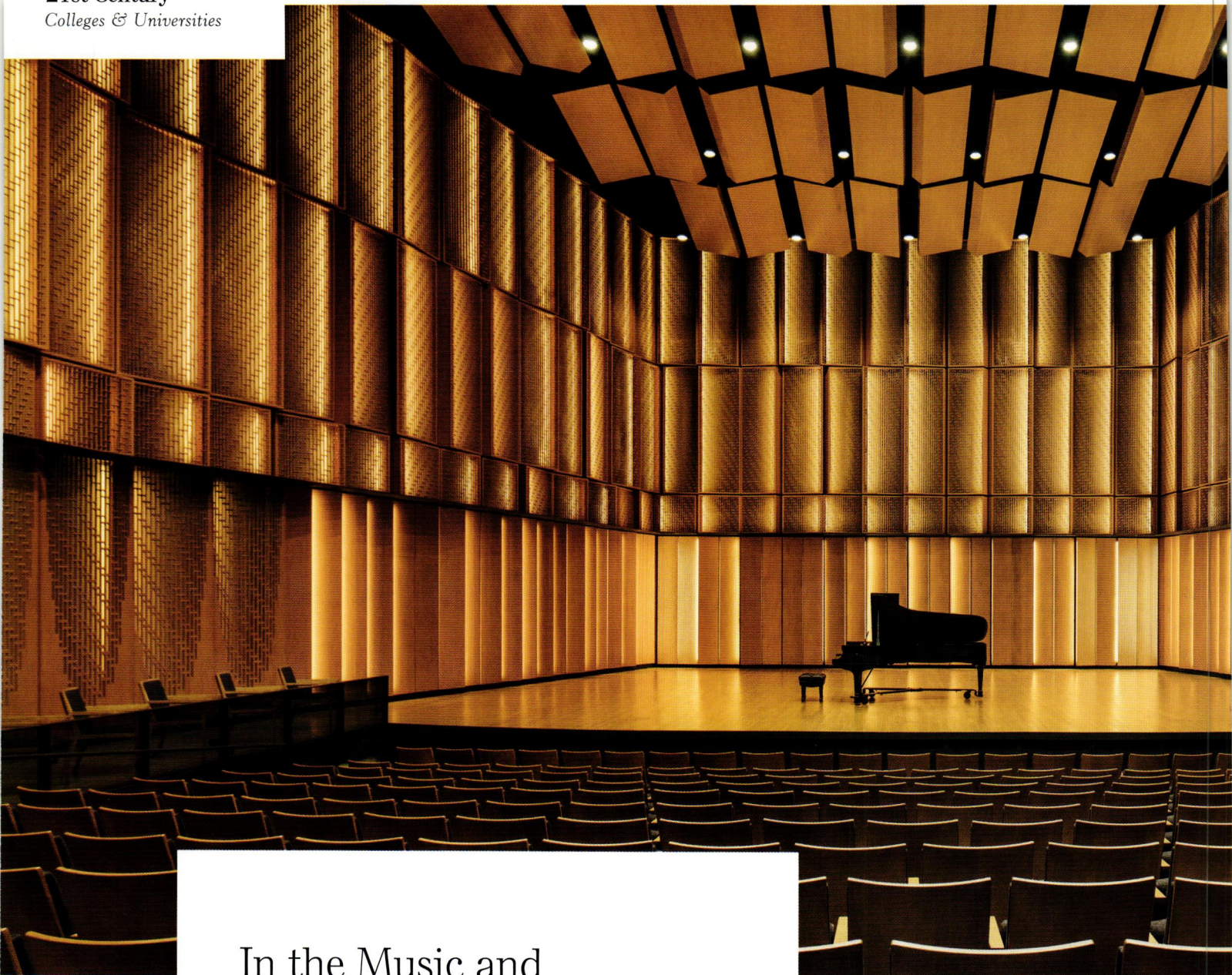
**Construction manager:**  
Whiting-Turner

**Size:** 25,000 square feet

**Total project cost:**  
\$15.5 million

**Completion:** October 2017

**Photographer:**  
Lara Swimmer



In the Music and  
Performance Commons,  
**Carleton College** has  
a dynamic new home  
for its music students  
and faculty

By Joel Hoekstra





**Carleton College, a liberal arts school with roughly 2,000 students, lies on the northern edge of Northfield,** a small town in southern Minnesota. Expanding the campus, which is hemmed in by the Cannon River and a woodland-prairie arboretum, has often proved challenging. Residents are generally wary of projects that push into town, concerned that institutional buildings will alter the feel of Northfield's historic residential neighborhoods.

But in 2011, Carleton opened the Weitz Center for Creativity, a multipurpose arts facility by MSR Design, in a former middle school surrounded by a church, a city park, and charming older homes. The award-winning adaptive reuse, plus the addition of a new wing, was heralded as a success by nearly everyone. Home to the college's multidisciplinary arts

departments, the Weitz Center ignited interest in dance, theater, and media and film studies.

The project fell short in only one respect: Despite considerable effort, the budget and programming ultimately did not allow for the inclusion of Carleton's music department, which desperately needed a new home. (The program's resources were divided among three locations.) Plans to unify the music department in one location were set aside.

But not for long. Six years later, Carleton opened the Weitz Center's Music and Performance Commons, a 55,000-square-foot addition with more than enough space to house music faculty, classrooms, practice rooms, and performance spaces. Designed by HGA



*Top: Artfully perforated wood panels with integrated lighting create a dynamic environment in the performance hall. Far left: A student lounge outside of lower-level practice studios. Left: A series of "carved," richly textured window compositions enliven the south facade.*

*Natural light pours  
into the northeast corner  
of the Music and Performance  
Commons. At night, calm LED  
lighting makes that space a  
lantern for the adjacent park.*

Architects and Engineers, the expansion integrates seamlessly with the rest of the building, fulfilling the college's goal of cultivating collaborations among music students and faculty and their counterparts in other arts programs.

"The premise is that the arts are a powerful tool for fostering creative educational exploration," says Steve Richardson, Carleton's Puzak Family Director of the Arts. "The possibilities for developing new forms of art and pushing the bounds of art are unlimited in the expanded facility."

The 400-seat Kracum Performance Hall, the centerpiece of the addition, was designed to accommodate a full range of events, from dance recitals to lectures, from drumming groups to chamber symphonies. Pivoting wood panels surround the stage, allowing users to change the look and feel of the hall and accommodate stage entrances for dance.

The back wall of the stage includes a section of integrated acoustic towers that can be rolled forward to create a smaller space for intimate performances. Adjustable LED lighting can transform the space in seconds, from somber to celebratory, dark to brilliant.

"There's also a floor-to-ceiling drop-down screen for multimedia projection, expanding the use of the space for a variety of performance types," says HGA project manager Rebecca Celis, AIA. The theatrical lighting, pivoting walls, and world-class acoustics add up to a dynamic space.

"The biggest challenge was weaving all the functions into the building on such a tight site," says HGA principal Roxanne Nelson, AIA. "It took planning, stacking, and creative thinking." A large rehearsal hall, for example, doubles as

>> continued on page 51



*"The arts are a powerful tool  
for fostering creative educational  
exploration. The possibilities  
for developing new forms of art  
and pushing the bounds of art are  
unlimited in the expanded facility."*

—Steve Richardson, Carleton College  
Puzak Family Director of the Arts

## MUSIC AND PERFORMANCE COMMONS

**Location:**  
Northfield, Minnesota

**Client:**  
Carleton College

**Architect and  
landscape architect:**  
HGA Architects  
and Engineers  
[hga.com](http://hga.com)

**Principal-in-charge:**  
Roxanne Nelson, AIA

**Design team:**  
Tim Carl, FAIA;  
Andrew Weyenberg, AIA;  
Rebecca Celis, AIA;  
Rebecca Krull Kralling, AIA;  
Andrew Holmgren, AIA

**Energy modeling:**  
HGA; The Weidt Group

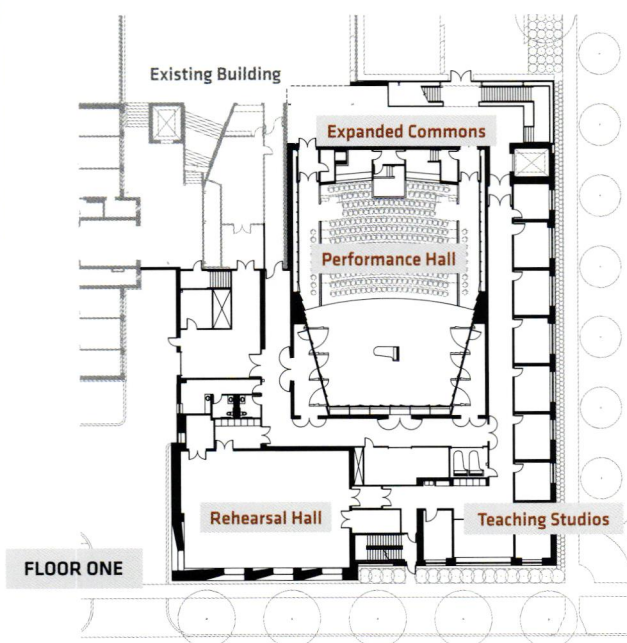
**General contractor:**  
McGough Construction

**Size:** 55,000 square feet

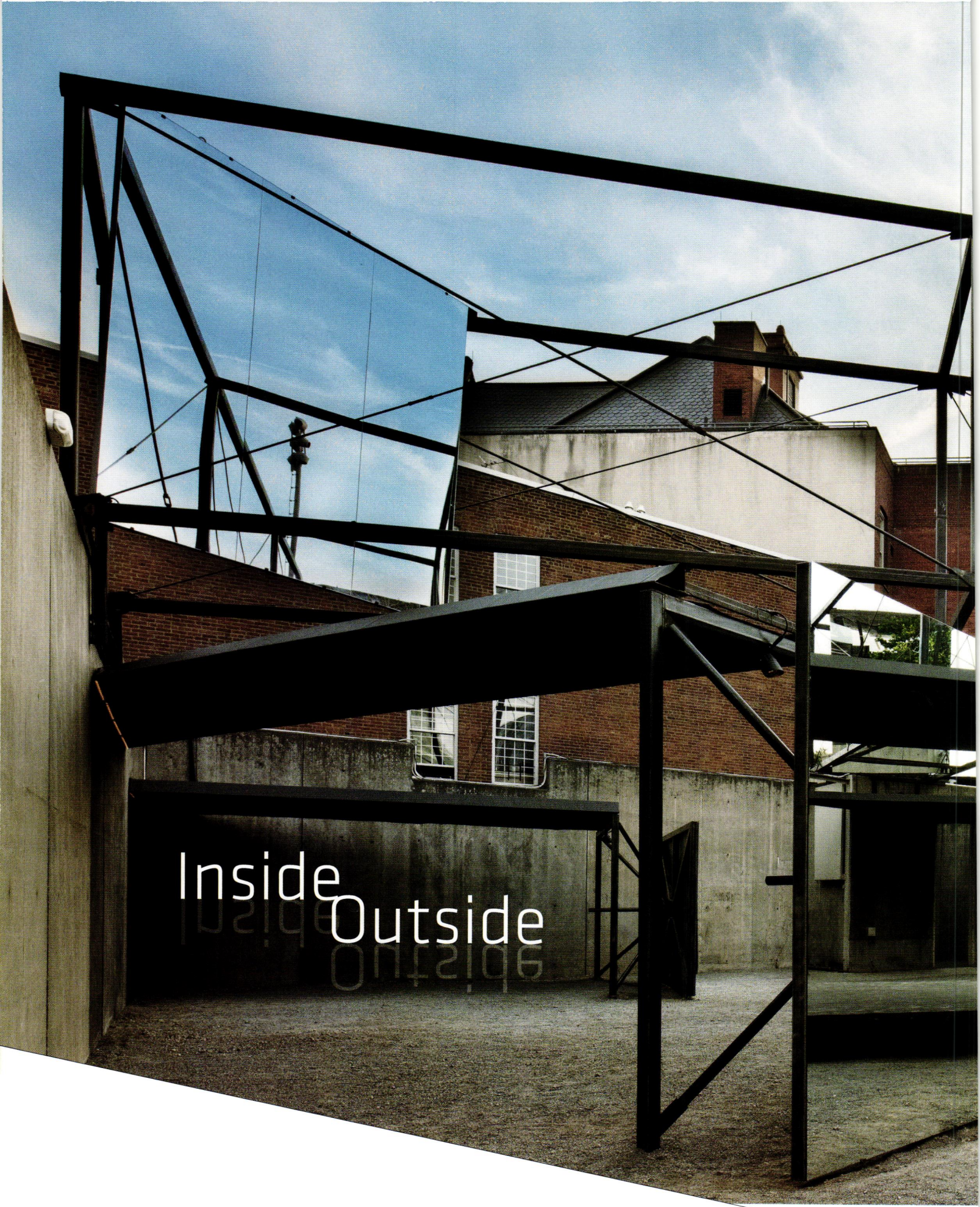
**Cost:** \$28 million

**Completion:** August 2017

**Photographer:**  
Albert Vecerka



*Flexible spaces enable the building to do more. The second-floor recital hall, for example, can double as a classroom.*



# Inside Outside



**VIRTUAL EXPERIENCE:** Dream the Combine's Jennifer Newsom and Tom Carruthers provide a video tour of this dynamic installation in "Infinite reflections in a kinetic environment" on YouTube.

**Minnesota's Dream the Combine  
designs an intriguing installation  
for MoMA PS1 in New York City**



The final design was composed of interlocking steel frames, canvas canopies, and giant mirrors on gimbals; the mirrors rotated in the breeze or at the lightest touch.

By Joel Hoekstra

The courtyard of MoMA PS1 in New York City is surrounded by 15-foot-high concrete walls. But this past summer, people on either side of the barrier could easily glimpse and wave to each other when conditions were right. As part of *Hide & Seek*, an installation conceived by the Minnesota-based design practice Dream the Combine, giant mirrors were positioned like a periscope to afford views from inside to outside and vice versa.

The design was the work of Jennifer Newsom, AIA, and Tom Carruthers, AIA, married partners who in 2013 launched Dream the Combine (whose name comes from a dream their young son had). Newsom, who has worked for such firms as Adjaye Associates and Deborah Berke Partners, is also an assistant professor at the University of Minnesota. Carruthers, formerly with Diller Scofidio + Renfro and Gwathmey Siegel, operates a metal-fabrication shop in Northeast Minneapolis. The purpose of their work, they say, is to "create site-specific installations exploring metaphor, imaginary environments, and perceptual uncertainties that cast doubt on our known understanding of the world."

Some Minnesotans may have seen the couple's earlier work *Longing*, a 2015 installation that involved kinetic mirrors placed at either end of an abandoned Minneapolis skyway bridge, which created the illusion of infinite space.

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*With its subtle responses to wind, light, and human activities, Hide & Seek was a different installation at different times of the day. A canvas canopy brought relief from the sun and created a sense of intimacy in an urban space that is typically open.*





#### HIDE & SEEK

**Location:** MoMA PS1,  
Long Island City, New York

**Architect:** Dream the Combine  
[www.dreamthecombine.com](http://www.dreamthecombine.com)

**Lead designers:**  
Jennifer Newsom, AIA;  
Tom Carruthers, AIA

**Structural engineer:** ARUP

**Lead structural engineer:**  
Clayton Binkley

**Lighting designer:** ARUP

**General contractor:**  
Jacobsson Carruthers

**Photographers:**  
Pablo Enriquez;  
Caylon Hackwith;  
Andrew Latreille

**"Sometimes architecture has the ability to disappear. Depending on who was using it, the structure might be noticeable or simply vanish into the background."**



*Top and right: Strategically placed giant mirrors on gimbals added visual interest and expanded the dimensions of the installation to infinity. Visitors took full advantage of the wide polyester-net hammock, day and night.*



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## Haverford College

< continued from page 34

The original gym floor creates visual connections between the lowest level of the building and the highest. VCAM is also wired for the best-quality sound and video technology, yielding numerous opportunities for performances, art installations, expanded documentary, and experimental media work.

Getting all the construction equipment and materials into the building took some doing. The Haverford campus is an arboretum, so, as McGrane puts it, "Every tree matters." The vehicles and machinery had to carefully navigate tree roots and branches. There was even debate over whether some hydrangeas could be moved. "Getting this space constructed was definitely a dance that required some choreography," says McGrane. "But in the end, I think it was quite successful."

Winner of a 2018 AIA Education Facility Design Award, the VCAM Building is now open 24/7, allowing makers of every stripe to indulge their creativity—whether it's baking cookies, crafting a documentary, or soldering a motherboard—whenever the impulse strikes. Lesneski says she knows the building is thriving because the flow of images on the @haverfordvcam Instagram feed is endlessly entertaining. The photo stream reveals a compelling model for how to meld cultural, media, and arts pursuits while also rooting them in a sense of history and place. **AMN**

## Urban Fabric

<< continued from page 17

organic to artificial, suggesting anything from massed sails to membranes.

Interestingly, the Allianz Field architects began with a concept, not a material. There was no sense of tracking Asian, South American, or European stadium trends, or echoing the design of a Busan Asiad Stadium or an Estádio Beira-Rio, to name two earlier buildings with noteworthy fabric elements. Instead, the earliest concepts for Allianz Field were meant to evoke and reflect the wide prairie sky and the movement of water on the surface of a lake or river. The architects wanted something expansive and elemental that

>> continued on page 50

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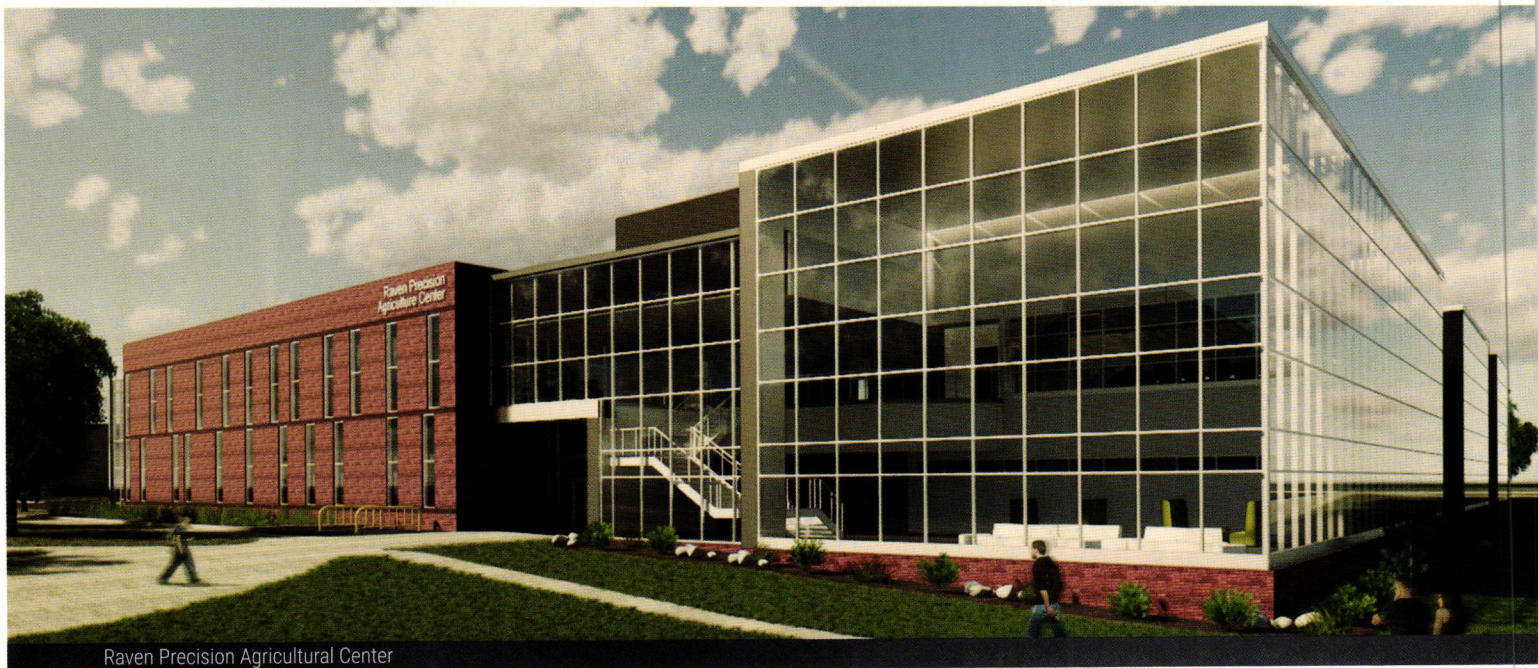
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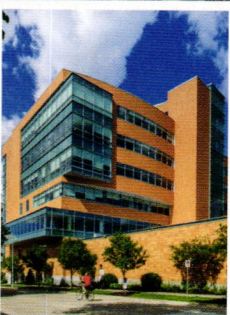
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## Urban Fabric

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would complement aspects of the surrounding area. In addition, they wanted something that motorists on I-94 would read as monumental to soccer fans coming from the light rail or A Line bus on the opposite side would experience as more human-scaled.

How this would be achieved was not immediately clear.

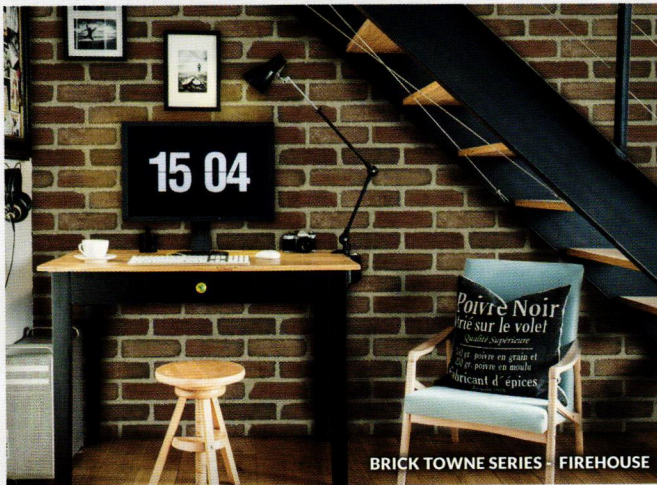
"We had these renderings, and we didn't know what it was going to be," says Miller. "We looked at a series of materials. A stainless metal panel or this tensile membrane with sort of a cable-net facade, with something applied to it. We looked at changing the facade, but then we came across this fabric."

It was the fabric that made the initial concept possible. At the same time, it was strong enough to resist wind and create a microclimate within the stadium. It could also shield the neighborhood from some of the crowd noise and direct it onto the pitch. The PFTE is a weave made of fiberglass that's treated with an iridescent silver pigment and then laminated with polymer. It's manufactured in New England, sent to China for cutting and seaming into panels, then shipped back over in rolls that resemble giant beach noodles. Onsite, the panels are lifted like a drape and stretched over the curving steel tubes that encircle the structure; that's what's been happening, panel by panel, over the past few months.

I take a bus down I-94 every day on my commute, and I've watched the fabric go up. High tech though it is, it reminds me of a very old technology.

In college, I worked at an art-supply and framing store. One of my jobs was to stretch canvases. If you're a painter, you know this process well. You've got a wooden frame and a pile of canvases sitting in a corner—ideally neatly folded but usually not. Through a careful combination of brute strength and finesse, you start from the middle of each side of the frame and staple your way to the corners. Slowly, with expert folds in the corners and little tucks here and there, your flimsy, floppy rectangle with puckered edges morphs into a beautiful, sleek object. I thought of that task every day I passed the construction site—all that tightening and

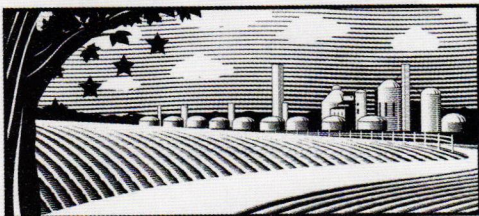
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## Urban Fabric

<< continued from page 50

tautening transforming the structure from a loose, gray Christo installation into a smooth, streamlined halo.

I mention all this to Miller, and he chuckles with recognition. "That was a real trick—making sure the detailing had that adjustment in the field," he says. "The process had to allow for a degree of adjustability that was unknown. You don't really know until the final tense is done. It looks so perfect, and then you see you have a little pucker in the corner."

When I zipped by Allianz Field this morning, there wasn't a pucker in sight. In the gray winter sky, it seemed to hover slightly over the ground like a cloud—appropriate for a venue for a soccer team whose fan base is known as the Dark Clouds. Whatever haunting happens in Allianz Field when it opens in March will hopefully be the chants of thousands of United supporters echoing down on the pitch, reverberating off the stadium's perfectly tuned silver wrap. **AMN**

## Carleton College

<< continued from page 38

the backstage for the concert hall. A smaller rehearsal hall can be used as a master classroom or a performance space for small ensembles.

Another major challenge was fitting the building into the scale of the neighborhood. To moderate its impact, HGA clad the addition in red brick and limestone that draw from the 1910 middle school, and the highest points of the building are set back from the street, so the structure doesn't overwhelm the neighborhood. "We kept asking, 'How far can we push the form of this building while still maintaining the integrity of the complex?'" says HGA's Andrew Weyenberg, AIA, the lead designer on the project.

Students, faculty, and the Northfield community have responded positively to the building. The gallery spaces, recital rooms, and concert hall are solidly booked with student works, faculty recitals, and guest performances. In that regard, says Richardson, the building is working exactly as envisioned. "Demand for all the spaces is off the charts," he adds. "I think we're just beginning to understand all the possible permutations for a building like this." **AMN**



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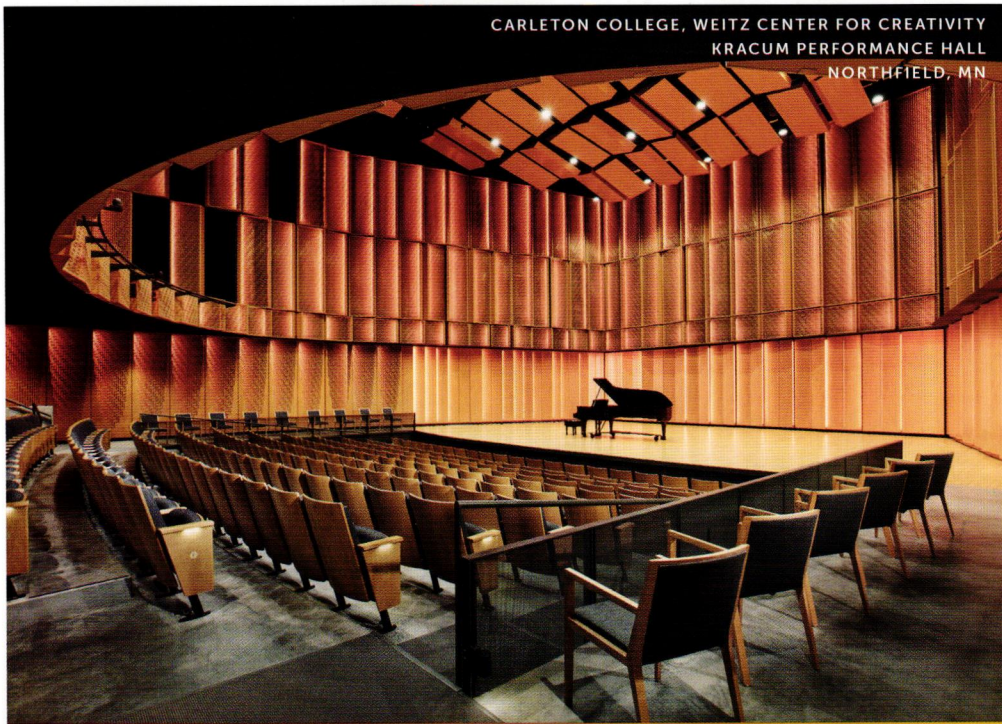
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## Inside Outside

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Other design aficionados may have visited *Clearing* at Franconia Sculpture Park in Shafer, Minnesota. The 2017 installation incorporated 12 repurposed lampposts and mirrors placed along paths mowed through the prairie landscape.

In early 2018, the pair got word that MoMA PS1's annual Young Architects Program had selected them from a group of five finalists to create an installation for the museum's courtyard for the summer. Because the space was outside, they had to incorporate seating, shade, and water, as well as create an experience that would engage people of all ages. "They were looking for a design that dynamically shaped public spaces," says Newsom. Adds Carruthers: "We wanted to create a dialogue between the context and the people interacting with it."

The final design, completed with the help of ARUP engineer Clayton Binkley, was composed of interlocking steel frames, canvas canopies, and giant mirrors on gimbals; the mirrors rotated in the breeze or at the lightest touch. Visitors could reposition the mirrors to get a different view, lounge in a huge polyester-net hammock, or simply rest in the shade. Children played in the space during the day, and party crowds danced there at night.

"Jen and Tom tried to take away the 'object-ness' of the experience," says Sean Anderson, associate curator in the department of architecture and design at MoMA, who oversaw the project. Previous installations in the Young Architects series tended to be sculptural or architectural structures that visitors moved around. Dream the Combine built something that was more malleable, yet "participants could immediately figure it out," says Anderson. "Sometimes architecture has the ability to disappear. Depending on who was using it, the structure might be noticeable or simply vanish into the background."

Newsom and Carruthers say they enjoyed watching people interact with the structure, whether it was walking down the catwalk-like platform or moving the mirrors to see people outside. "People didn't have to come into the museum to see what was going on in there," says Carruthers. And once they got a glimpse over the walls, more than a few curious folks made their way inside—drawn to the scene and the structure. **AMN**

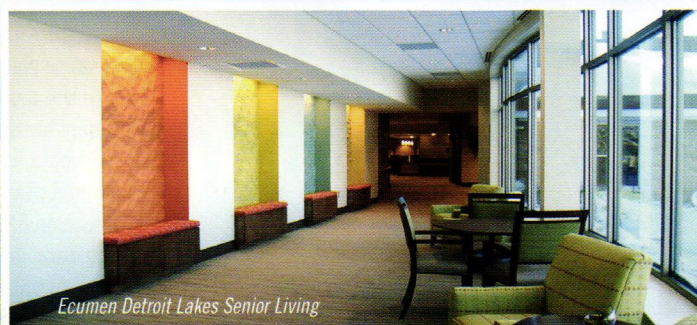
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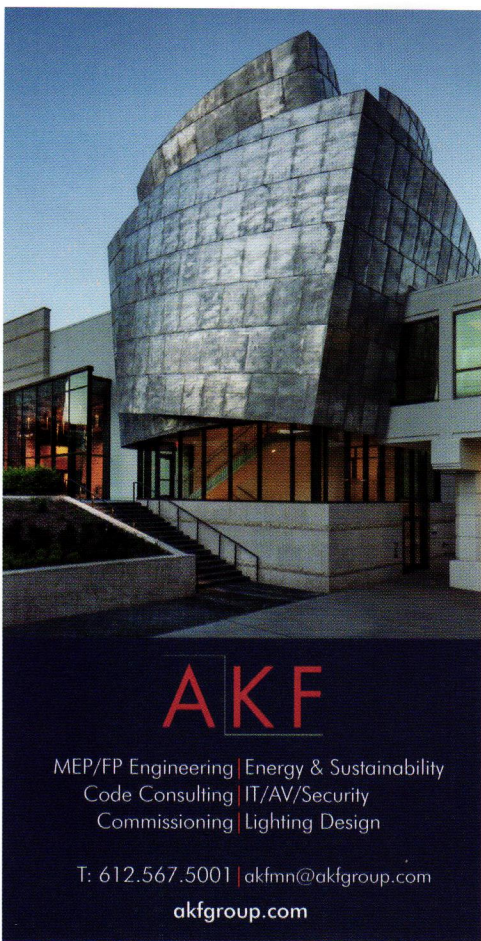
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## Design Director

<< continued from page 11

People in the Minnesota architecture community have been so welcoming and curious about what I bring to the table, what kinds of connections I see. There are several architects on the collegiate advisory board. We have so many adjunct faculty who are practitioners in the community, and their input has also been integrated into our strategic-planning data. Local architects have also been wonderful about sharing their views of where the profession is heading and how that impacts the future of our academic programs. They are very much involved, and I'm very grateful for their contributions.

***We know that students think about how design can effect social change and solve big problems. How is the College of Design harnessing that mindset?***

I've been very happy to consistently see and hear in all our programs the idea of designing *with* rather than *for* communities. Our students are taught throughout their coursework that they need to be able to collaborate with many different people in the communities with whom they work.

It's hugely important, and I think it's very well understood in this college.

***Data shows that the students in architecture programs are, as a group, much more diverse than the workforce in architecture today. What might help the profession retain this diverse body of students in the years ahead?***

We need to change the image of architects in mass media, so young people can see themselves in the profession. We need to broaden our recruiting and provide support for the students while they are here.

The college has much more work to do in this area, which is not unusual. We must have as broad an outlook as we can, be as well traveled as we can be, and be as educated as we can be about what different kinds of cultures and subcultures are like. We also need to make sure that our environment is welcoming, and that we sustain that welcoming attitude and perspective.

We devote a lot of attention to sustaining a multiperspective cultural climate within the college, which our students demand, and will demand throughout their careers. I've also been trying to extend collegiate-advisory-board invitations to new voices, to make the group sitting around that table a lot more diverse than it has been in the past.

We have the benefit of a generational wave of students who bring with them certain expectations about diversity and certain habits, ways in which they've already, in their own lives, been able to realize some of the things that older generations are still scratching their heads about. So as today's students enter the workplace and start their own firms, they will just "make it happen" to some degree.

***What's ahead that you're most anticipating?***

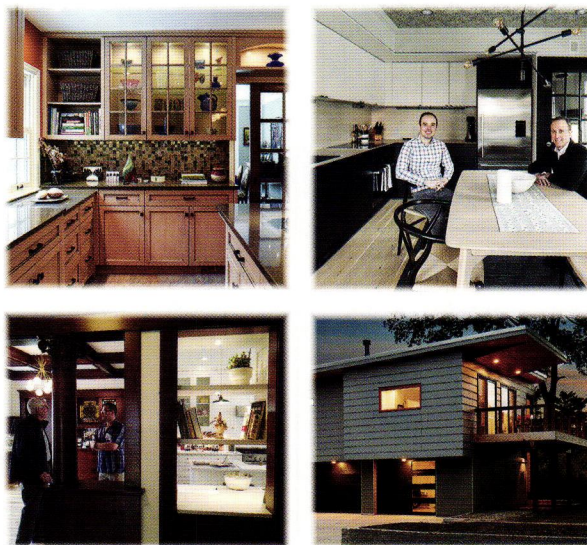
We're creating a collection of papers written by College of Design faculty and collaborators all around what it means to think like a designer. And more specifically, what it means to think like a designer in the context of a community-engaged university. We have an inclusive editorial team that will be reviewing materials this coming spring and summer, and we expect to have a publication soon afterward.

We're also already looking out to 2021, the 15th anniversary of the college. We'll do symposia, exhibitions, and publications. We'll honor the past, celebrate the present, and create the future for our students and communities. **AMN**

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continued next column

*New Harbor Bridge, 175 year service life design, Corpus Christi, TX; RUTE, Alt. wind turbine base concrete design & aggregate vetting, nationwide; Sioux City Hobby Lobby floor investigation, Sioux City, IA; Design of concrete for Ford Motor Company high temperature rooms, Detroit, MI; Assessment of expansive cementitious material in a residential spa, MN; Thermal control plans for Red Wing bridge; Troubleshooting geopolymer production, CA; MSP Airport silver ramp concrete construction troubleshooting, Minneapolis, MN*

## BKBM ENGINEERS



6120 Earle Brown Drive, Ste. 700  
Minneapolis, MN 55430  
Tel: (763) 843-0420  
Email: twyffels@bkbm.com  
www.bkbm.com  
Year Established: 1967  
Total in MN Office: 58  
In Other Offices: 4  
Other Offices: Denver, CO  
Contact: Time Wyffels, (763) 843-0420

### Firm Principals

Ronald J. LaMere, P.E.  
Andrew M. Rauch, P.E., S.E.  
Thomas J. Cesare, P.E.  
Katherine A. Russell, P.E.

BKBM Engineers is a nationally renown, multi-discipline engineering firm providing structural, civil, restoration design, and investigative services for a wide range of building types and sizes. Our goal is to develop and maintain long-term relationships with direct clients and end users/owners. By listening to our clients, we identify unique needs allowing us to present alternatives and recommend solutions to achieve design objectives. BKBM is committed to on-schedule project completion, client satisfaction, and a contractor-friendly approach.

*Land O'Lakes Corporate Building, Arden Hills, MN; Amundson Hall Gore Annex Addition, Minneapolis, MN; Hawthorne Ecovillage, Minneapolis, MN; Legacy Condominium Development, Minneapolis, MN; The Moline, Hopkins, MN; Grand Living at Lake Lorraine, Sioux Falls, SD; Edina High School Addition, Edina, MN; Como High School Athletic Field, St. Paul, MN*

## BKV GROUP



222 N. Second Street, Ste. 101  
Minneapolis, MN 55401  
Tel: (612) 339-3752  
Email: info@bkgvgroup.com  
www.bkgvgroup.com  
Year Established: 1978  
Total in MN Office: 113  
In Other Offices: 63  
Other Offices: Chicago, IL; Washington, DC; Dallas, TX  
Contact: Mike Krych, (612) 339-3752

### Firm Principals

Jack Boorman, AIA, NCARB  
Chad Kurdi, PE  
Mike Krych, AIA  
Kelly Naylor, CID, LEED AP  
Mat Nugent, AIA  
Tom Daskiewicz, Assoc AIA  
Jack Barbaccia, AIA  
John Maisto, AIA, LEED AP

BKV Group is an holistic design firm providing architecture, engineering, interior design, landscape architecture and construction administration. Since 1978, BKV Group has grown from a sole proprietorship into a diverse partnership with practice sites in Chicago, Dallas, Minneapolis, and Washington DC, serving clients locally and nationwide. BKV Group's clients appreciate our collaborative approach to incorporating innovation, proven processes and technology to bring their vision to life.

*A-Mill Artist Lofts, Minneapolis, MN; Abilitan, Minneapolis, MN; Mill City Quarter, Minneapolis, MN; Barrel House, Minneapolis, MN; Owatonna Arts Center, Owatonna, MN; Pennington County Justice Center, Thief River Falls, MN; Leech Lake Tribal Justice Center, Cass Lake, MN; Shakopee City Hall, Shakopee, MN*

## CAIN THOMAS ASSOCIATES, INC.



4215 White Bear Parkway, Ste. 100  
Saint Paul, MN 55110  
Tel: (651) 426-9549  
Email: jcain@CTAMEP.com  
www.CTAMEP.com  
Year Established: 1983  
Total in MN Office: 19  
Contact: Jay J. Cain, (651) 287-1120

### Firm Principals

Jay J. Cain, PE  
Scott D. Thomas, PE, LEED AP, BD+C  
Ryan D. Stephens, PE

Cost effective, energy conscious, sustainable mechanical and electrical engineering design on a wide variety of project types, including but not limited to healthcare, specialty housing, hospitality, retail, transportation, public works, office education, worship, recreational, data/communications and industrial. Specialties include interior and exterior lighting, geothermal heating/cooling, vehicle specialties, renewable energy, radiant floor, green design, streetscape electrical, commissioning, energy modeling, LEED, sustainable design, fire protection and heat recovery for a coast to coast market.

*Four Winds Casino, South Bend, Indiana; City Public Works Facility, Williston, ND; MSH 43 Bridge Replacement Electrical, Winona, MN; MN Veterans Home SNF, Minneapolis, MN; National Guard Armory Renovation, St. Cloud, MN; Anoka Ramsey Community College Student Services/Library Remodel, Coon Rapids, MN; Ho-Chunk Casinos Four Site Expansion, Wisconsin; Trinity Springs AL and IL, The Villages, Florida*

**CIVIL SITE GROUP**

4931 West 35th Street, Ste. 200  
St. Louis Park, MN 55416  
Tel: (612) 615-0060  
Email: psarver@civilsitegroup.com  
www.CivilSiteGroup.com  
Year Established: 2009  
Total in MN Office: 19  
Contact: Patrick Sarver, (952) 250-2003

**Firm Principals**

David Knaeble, PE  
Matt Pavak, PE  
Robert Binder, LA  
Patrick Sarver, LA  
Cody Johnson, PLS  
Rory Synsteliën, PLS

Civil Site Group is an award winning professional consulting firm serving the land development marketplace with services in civil engineering, surveying, landscape architecture and municipal land entitlements. Our firm is built on a foundation of providing market leading professional site engineering services with a creative, integrated, solution oriented approach. Our project successes are most often the direct result of our client centered project management style, and our unparalleled team oriented mindset.

*Elevate Apartments, Mixed-Use, Eden Prairie, MN; Bailey Meadows, Single-Family, New Port, MN; Minnesota Eye Clinic, Medical Office Campus, Woodbury, MN; Rex 26/Aldi, Mixed Use, Minneapolis, MN; La Doña Brewing/Royal Foundry Distillery, Minneapolis, MN; Cherrywood Pointe, Senior Housing, Plymouth, MN; Borealis, Multi-Family Residential, Minneapolis, MN; Riverdale Apartments, Multi-Family, Coon Rapids, MN*

**CLARK ENGINEERING**

12755 Highway 55, Ste. 100  
Minneapolis, MN 55441  
Tel: (763) 545-9196  
Email: info@clark-eng.com  
www.clark-eng.com  
Year Established: 1938  
Total in MN Office: 25  
Total In Other Offices: 34  
Other Offices: Sioux Falls, Aberdeen, Pierre, Watertown, SD  
Contact: Sylvia Murray, (763) 545-9196

**Firm Principals**

Abi Assadi, PhD, PE  
Tim LaBissoniere, PE  
Cory Casperson, PE  
Vladimir Scheglowski, PE  
Seth Spychala, PE  
Kevin Goff, PE  
Steve Myer, PE  
Don Weigel, PE

Clark Engineering is an experienced multi-disciplinary engineering and technology firm with 80 years of dedication to meeting the needs of government institutions, property developers, consultants, contractors, industrial manufacturers and others worldwide. Clark Engineering provides expertise in project development, project management, civil and structural engineering, landscape architecture, environmental services, survey, and renewable energy and resource recovery.

*Orchard Path Senior Housing, Apple Valley, MN; Gray Wolf Peak Casino, Missoula, MT; Kasson-Mantorville Senior High School, Kasson, MN; Humboldt High School Remodel, Kasson, MN; Hometown Bank, Shakopee, MN; Woodspring Suites, Woodbury and Mendota Heights, MN; Weyauwega High School, Weyauwega, WI; Highcrest Distribution Centers 2 and 3, Roseville, MN*

**COMMERCIAL AQUATIC ENGINEERING**

6500 Carlson Drive  
Eden Prairie, MN 55346  
Tel: (952) 345-6447  
Email: gstoks@caqua.com  
www.fountaindesigns.com  
Year Established: 1997  
Total in MN Office: 30  
Contact: Greg Stoks, (952) 345-6447

**Firm Principal**

Greg Stoks

Commercial Aquatic Engineering (CAE) differs from many water feature companies in that we specialize in providing services to support all aspects of the project. This includes concept development and validation services, feature consultation on functionality and performance, budgeting analysis, construction documentation, installation, and maintenance support services. Our expertise includes structural design, waterproofing, finishes, mechanical operating systems and electrical control systems.

*Rainforest Cafes, worldwide; Lakewood Cemetery Renovation, Minneapolis, MN; 20 Washington Renovation, Minneapolis, MN; Hennepin County Government Center, Minneapolis, MN; MN Zoo Sea Otter, Penguin, Grizzly exhibits & Central Plaza, Apple Valley, MN; Westminster Church, Minneapolis, MN; New East Commons Park, Minneapolis, MN; Firemans Park, Chaska, MN*

**DUNHAM**

50 South Sixth Street, Ste. 1100  
Minneapolis, MN 55402  
Tel: (612) 465-7550  
Email: info@dunhameng.com  
www.dunhameng.com  
Year Established: 1960  
Total in MN Offices: 100  
Other MN Offices: Duluth & Rochester, MN  
Contact: Jay Rohkohl, (612) 465-7550

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**Firm Principals**

Jay Rohkohl, PE  
Steven J. Gentilini, PE  
Matthew L. Jensen, PE  
Greg Steinmetz, PE  
Nicolas J. Igl, PE  
Randy Olson, PE  
Tom Lind, PE  
Darin May, PE  
Mark Azure, PE

Dunham offers mechanical, electrical, and low voltage consulting engineering services to our clients across the United States. Our practice areas are commissioning + energy services, commercial, education, healthcare, mission critical, and retail. We have teams of specialists in indoor air quality, sustainable design, LEED certification, and CFD modeling, enabling us to help our clients optimize the performance of their building systems.

*Hennepin Healthcare, Clinic + Specialty Center, Minneapolis, MN; Jack Links Headquarters, Minneapolis, MN; TCO Performance Center at Viking Lakes, Eagan, MN; UMD, Chemistry and Advanced Materials Sciences Building, Duluth, MN; Elk River Public Schools, RetroCx, Elk River, MN; Regions Hospital, Birth Center, St. Paul, MN; Hennepin County, Data Center Expansion, Confidential Location; Nordhaus Multi-family High-rise, Minneapolis, MN*

**EAPC ARCHITECTS ENGINEERS**

539 Bielenberg Drive, Ste. 115  
St. Paul, MN 55125  
Tel: (763) 225-5050  
Email: jim.tyler@eapc.net  
www.eapc.net  
Year Established: 1967  
Total in MN Office: 9  
In Other Offices: 120  
Other Offices: MN: Bemidji; ND: Fargo, Grand Forks, Minot, Bismarck, Williston; SD: Sioux Falls; AZ: Arizona  
Contact: Jim Tyler, (701) 258-3116

**Firm Principals**

James Tyler, PE  
Paul Prout, PE  
Jay Haley, PE  
Cory Vaughn, PE, LEED AP  
Anthony Corcoran, PE LEED AP  
Tim Gustafson, PE

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APC is an award-winning, full service design consulting firm specializing in architecture and engineering for all project types including healthcare, education, multi-family housing, civil, commercial, recreation, and cultural facilities.

Allina Health Mercy Hospital Rooftop Helipad, St. Paul, MN; Allina Health East Region Pharmacy USP 797/800 Upgrades, St. Paul, MN; Bemidji State University, Control Commissioning, Bemidji, MN; Schoolcraft Learning Community School, Bemidji, MN; Peterson Veterinary Clinic, East Grand Forks, MN; Essentia Health, Neonatal Intensive Care Unit, Fargo, ND; Precision Ag, South Dakota State University, Brookings, SD; Missouri Ridge School, Williston, ND

## EMANUELSON-PODAS



7705 Bush Lake Road  
Edina, MN 55439  
Tel: (952) 930-0050  
Email: info@epinc.com  
www.epinc.com  
Year Established: 1957  
Total in MN Office: 62  
Contact: Christopher Blissett,  
(952) 930-0050

### Firm Principals

Mike Webert, PE  
Scott Vander Heiden, PE, LEED AP BD+C  
Matt Fults, PE, LC  
John Nordstrom, PE  
Troy Nystrom, PE

Emanuelson-Podas helps make amazing spaces happen. We're a mechanical and electrical engineering firm specializing in the design of HVAC, building automation, plumbing, lighting, power, communications, life/safety, power generation and sustainable building systems, and offering premier energy modeling and building commissioning services. A values-driven company, our key industry areas include the corporate, civic, education, fitness, financial, healthcare, hospitality, housing, industrial / manufacturing, municipal, restaurant, retail and worship sectors.

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City of Minneapolis East Side Storage & Maintenance Facility, Minneapolis, MN; Life Time Fitness, nationwide; RBC Wealth Management, nationwide; St. Paul Public Schools, Highland Elementary, St. Paul, MN; St. Paul Public Schools, Horace Mann Elementary, St. Paul, MN; Dorothy Day Place, Catholic Charities, St. Paul, MN; Avidor Edina, Edina, MN; Fraser, Woodbury, MN

## ENGINEERING DESIGN INITIATIVE, LTD.



1112 North Fifth Street  
Minneapolis, MN 55411  
Tel: (612) 343-5965  
Email: jhruby@edilimited.com  
www.edilimited.com  
Year Established: 2002  
Total in MN Office: 16  
Contact: Jay Hruby, PE, (612) 343-5965

### Firm Principal

Jay Hruby, PE

EDI provides innovative M/E engineering solutions for a variety of building types. Our services include M/E engineering, commissioning, energy modeling, and daylight modeling services. EDI is committed to delivering design that are energy efficient, maintainable and sustainable. We are passionate in our creative design, attention to detail and committed to teamwork - from defining initial performance goals through validation by commissioning.

Hennepin County Walker Library, Minneapolis, MN; City of Roseville Fire Station #1, Roseville, MN; St. Paul Schools District Wide Security Upgrades, St. Paul, MN; Sherburne County Government Center/ Courts Addition, Elk River, MN; Hennepin County E911/Dispatch Commissioning, Plymouth, MN; Beltrami County Jail Security Electronics Upgrade, Bemidji, MN; Clay County Jail and Law Enforcement Center, Moorhead, MN; Minneapolis Sculpture Garden Renovation, Minneapolis, MN

## ERICKSEN ELLISON AND ASSOCIATES, INC.

305 2nd Street NW, Suite 105  
New Brighton, MN 55112  
Tel: (651) 632-2300  
Email: tpeterson@eeaengineers.com  
www.eeaengineers.com  
Year Established: 1954  
Total in MN Office: 19  
Contact: Todd Peterson, (651) 632-2320

### Firm Principals

Matthew E. Armstead, PE  
Terri A. Fleischhacker  
Todd A. Peterson, PE

EEA is a mechanical/electrical engineering company with extensive experience in design and commissioning of Public Projects: judicial/correctional, libraries, government, and maintenance. Commercial: medical facilities, data centers, and retail. Education: K12 Schools, Classroom Facilities, recreation centers, libraries, laboratories, dormitories, and campus centers; EEA has LEED certified engineers specializing in system modeling and innovative approaches for reducing energy consumption without sacrificing utility or comfort. EEA has specialty engineering experience in Fire Protection, Low Voltage and security systems, and Arc Flash studies.

SPPS St Anthony Elementary Renovation, St. Paul, MN-Design/Renovation; ISD 287 Ann Bremmer Education Center, Brooklyn Park, MN-Design/Renovation; MCF St. Cloud Intake & Health Services Ph 1, St. Cloud, MN-Correctional/Renovation; Olmstead County Courthouse Remodel, Rochester, MN-Design/Renovation; DNR Glenwood Office Building, Glenwood, MN-Design/LEED Cert/Net Zero Energy; Capitol Complex Arc Flash Study Update, St. Paul, MN-Engineering; Involta Data Centers, multiple locations-Design/Data Centers; Red Wing Shoes, Multiple Locations-Design/Retail

## ERICKSEN ROED & ASSOCIATES



2550 University Avenue W, Ste. 423-S  
St. Paul, MN 55114  
Tel: (651) 251-7570  
Email: info@eraeng.com  
www.eraeng.com  
Year Established: 1984  
Total in MN Office: 70  
Total in Other Office: 8  
Other Office: Eau Claire, WI  
Contact: Mike DeSutter, (651) 251-7570

### Firm Principals

Michael A. DeSutter, PE  
William T. Buller, PE, SE  
Michael S. Steenson, PE  
Steven J. Clark, PE  
Jamie D. Richardson  
John T. Madden, PE  
Kent D. Larson  
Ryan S. Bonniwell, PE, SE

A full service structural engineering firm delivering innovative and economical design solutions. Our experience includes: retail, commercial, medical, energy, multi-family, hospitality, educational, arts/ entertainment, parking ramps, sports/recreational, high-rise, renovation and remodeling. ERA is registered in all 50 states, uses Revit/BIM software and developed the patented ER-POST™ precast building system. Other services include: long-span structures, connection design, strong floors, blast panels, seismic masses, forensic analysis investigations and specialty engineering.

The Finn, St. Paul, MN; Wayzata Lake Effect, Wayzata, MN; Life Time Living Dallas Midtown, Dallas, TX; Element Hotel, Bloomington, MN; Avera McKennan Specialty Campus, Sioux Falls, SD; 800 Harbor Blvd, Weehawken, NJ; Ford Motor/ DTE Energy Plant, Dearborn, MI; Westport Apartments, Kansas City, MO

## GAUSMAN &amp; MOORE

Gausman  
& Moore

1700 Highway 36 W, 700 Rosedale Tower  
Roseville, MN 55113  
Tel: (651) 639-9606  
Email: tbartlett@gausman.com  
www.gausman.com  
Year Established: 1935  
Total in MN Office: 47  
Total in Other Offices: 31  
Other Offices: Duluth, MN; Los Angeles, CA  
Contact: Tim Bartlett, (651) 604-3128

**Firm Principals**

Edward Studniski, PE, LEED AP  
James Manning, PE, LEED AP  
Dave Blume, PE, LEED AP  
Dan Fox, PE, LEED AP  
Anthony Basden, PE LEED AP

A mechanical and electrical consulting engineering firm providing design services for corporate, government, healthcare, industrial, educational, and retail clients nationwide. Our specialized services include: sustainable design, commissioning, fire protection, forensic studies, arc flash studies, mission critical power systems, and productivity software development. Our 70+-person staff includes 15 licensed Professional Engineers and 13 LEED Accredited Professionals. We are committed to innovative, timely, and sustainable solutions for your building needs.

*Target Stores, Nationwide; US Army Corps of Engineers, Nationwide; Fergus Falls Library, Fergus Falls, MN; Petco Stores, Nationwide; St. Louis County Government Services Center, Virginia, MN; St. Luke's Sports & Event Center, Proctor, MN; Gander Outdoors, Nationwide; Cape Cod Mall Renovation, Hyannis, MA*

## HALLBERG ENGINEERING, INC.



1750 Commerce Court  
White Bear Lake, MN 55110  
Tel: (651) 748-1100  
Email: info@hallbergengineering.com  
www.hallbergengineering.com  
Year Established: 1979  
Total in MN Office: 44  
Other Office: Duluth, MN  
Contact: Andrea Loppnow, (651) 748-1100

**Firm Principals**

Richard L. Lucio, CEO/Principal, PE LEED AP  
Paul Fettingner, President/Principal, PE LEED AP

Hallberg Engineering (HEI) offers a full range of services to satisfy all of your mechanical, electrical and technology systems design and operations needs. Our process includes thorough, efficient coordination with a building owner's staff and design team, project consultants and architectural and interior design firms. Our services include: mechanical, electrical and technology design services; commissioning, recommissioning and retro-commissioning; energy modeling and property condition assessments. HEI is licensed in 49 states and four Canadian Provinces and is a Certified Minority-Owned Business (MBE) and a Disadvantaged Business Enterprise (DBE).

*Anoka-Hennepin School District, Anoka, MN; Minneapolis Public Schools, Minneapolis, MN; St. Michael-Albertville Ice Arena, Albertville, MN; H&M Stores, Nationwide; Xfinity Stores, Nationwide; Heywood Bus Garage, Minneapolis, MN; First Universalist Church of Minneapolis, Minneapolis, MN; Essentia Health, Duluth, MN*

## HGA

## HGA

420 North 5th Street, Ste. 100  
Minneapolis, MN 55401  
Tel: (612) 758-4000  
Email: info@hga.com  
www.hga.com  
Year Established: 1953  
Total in MN Offices: 345  
Total in Other Offices: 538  
Other Offices: Rochester, MN; Milwaukee, WI; Sacramento, San Francisco, San Jose, Los Angeles, CA; Washington DC; Boston, MN  
Contact: Jennifer Haferbecker, Dir. Marketing (612) 758-4507

**Firm Principals**

Paul Asp, PE, SE LEED AP, Structural  
Chuck Cappellin, PE, LEED AP, Science, Technology/Manufacturing  
Pete Dahl, PhD, LEED AP, CEM, Energy & Sustainability  
Leighton Deer, PE, LEED AP, Sustainability  
Jeff Harris, PE, LEED AP, Mechanical  
Leigh Harrison, PE, LEED AP, Electrical  
Kenny Horns, PE, LEED AP, Civil  
Joe Wettrenach, PE, LEED AP Electrical

HGA offers Civil, Electrical, Mechanical, Structural and Industrial engineering services. HGA also has specialists in commissioning, clean environments, central plants, district energy, renewable energy production, energy master planning, energy saving, utility infrastructure, facility assessments, telecommunications systems, lighting and sustainable design. Our engineering teams work collaboratively with owners, stakeholders, contractors and architects to create comprehensive solutions that meet the needs of each project. With contemporary knowledge and extensive experience, we deliver reliable solutions that achieve operational, aesthetic and sustainability goals with responsive, cost-effective service.

*Macalester College Theater and Classroom Building, St. Paul, MN; MetroHealth Patient Tower and Central Plant, Cleveland, OH; Thrivent Corporate Center, Minneapolis, MN; University of Pittsburgh Medical Center Presbyterian Hospital Patient Tower and Central Plant, Pittsburgh, PA; GSA Altmeyer Office Building Renovation, Baltimore, MD; Gundersen Lutheran St. Joseph Hospital replacement, Hillsboro, WI*

## KOMA

## KOMA

6115 Cahill Avenue  
Inver Grove Heights, MN 55076  
Tel: (651) 451-4605  
www.komainc.com  
Year Established: 1985  
Total in MN Office: 22  
Contact: Ashley Riley, (651) 789-4135

**Firm Principals**

Marc DuBois, AIA  
Matthew Van Hoof, PE  
Michael Lisowski, PE  
Stephen Iaria, AIA  
Brian L. Riley

KOMA offers comprehensive architectural, structural engineering and interior design services. We create inspiring, aesthetically pleasing and high functional spaces for people to live, work, play, learn and worship. Our wide-ranging project experience reflects our delight in rising to the unique challenges of each new project and exceeding the expectations of each new and continuing client.

*Buhler Food Application Center, Plymouth, MN; Scandia Elementary, Scandia, MN; Warners' Stellan, Falcon Heights, MN; Rahr Malting, Shakopee, MN; CityPlace, Woodbury, MN; Universal Academy Charter School, Minneapolis, MN; Nuevas Fronteras Elementary, St. Louis Park, MN*

## LARSON ENGINEERING, INC.



3524 Labore Road  
White Bear Lake, MN 55110  
Tel: (651) 481-9120  
Email: info@larsonengr.com  
www.larsonengr.com  
Year Established: 1979  
Total in MN Office: 59  
In Other Offices: 147.5  
Other Offices: AZ, GA, IA, IL, MO, ND, NY, WI, WA  
Contact: Ann Skeie, (651) 481-9120

**Firm Principals**

Lee Granquist, SE, PE  
Kesh Ramdular, PE  
Henry Voth, SE, PE

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Larson Engineering specializes in structural and civil services. This includes new designs and remodels for industrial, commercial, retail, religious and residential facilities; as well as material handling systems and plant expansions. Larson provides site design, pavement maintenance services and athletic facility engineering services. Larson also excels in exterior cladding, curtain and masonry wall renovations and inspections.

*St. Cloud YMCA, St. Cloud, MN; Osseo Area Schools, Maple Grove, MN; Sartell City Hall, Sartell, MN; Daikin Applied, Plymouth, MN*

## LKPB ENGINEERS, AN IMEG COMPANY



3001 Broadway Street NE  
Minneapolis, MN 55413  
Tel: (612) 540-5000  
Email: [jen.c.bolstad@imegcorp.com](mailto:jen.c.bolstad@imegcorp.com)  
[www.lkpb.com](http://www.lkpb.com)  
Year Established: 1969  
Total in MN Office: 40  
In Other Offices: 1,200  
Contact: Jen Bolstad, (612) 540-5000

### Firm Principals

John Costello, PE, BEMP, LEED AP +C  
John M. Killeen, PE, LEED AP  
Al Theisen, PE  
Michael Westemeier, PE, LEED AP  
Rhonda Smude, LEED AP

IMEG Corp. is one of the largest design consulting firms in the U.S. specializing in high-performing building systems, infrastructure, program management, and construction-related services. We are a national firm with core, regional teams ensuring strong quality control and client value.

Services include: Structural, Mechanical, Electrical, Plumbing, Fire Protection, Civil, Survey, GIS/ Data Collection, Technology, Security, Acoustics, Architectural Lighting, Bridge Engineering, Commissioning, Sustainable Design, Energy Modeling, Medical Equipment Planning, Process Engineering, and Utility Infrastructure.

*Gustavus Adolphus College, Beck Academic Center, St. Peter, MN; Normandale Lake Office Park, 8200 Tower, Bloomington, MN; Mayo Clinic Health System, Mankato Hospital, Mankato, MN; Mayo Clinic Health System, Dan Abraham Healthy Living Center, Rochester, MN; Mankato State University, Dining Center, Mankato, MN; Gustavus Adolphus College, Nobel Hall, St. Peter, MN*

## MATTSON MACDONALD YOUNG, INC.



901 North 3rd Street  
Minneapolis, MN 55401  
Tel: (612) 827-7825  
Email: [info@mattsonmacdonald.com](mailto:info@mattsonmacdonald.com)  
[www.mattsonmacdonald.com](http://www.mattsonmacdonald.com)  
Year Established: 1983  
Total in MN Office: 19  
Contact: Stephanie Young, (612) 827-7825

### Firm Principals

Stephanie J. Young, PE  
Joe A. Cain, PE  
Kenneth J. Green, PE  
Kirk T. Davis, PE

A structural engineering consulting firm providing innovative and practical design for a wide range of buildings, homes, and specialty structures. With expertise in wood, concrete, masonry, steel, light gage, aluminum, and more, our engineers collaborate with design teams, owners, and contractors. We provide design and engineering for both new and existing structures, including historic buildings. We provide assessment of existing conditions, evaluate options, inform feasibility studies, and seek creative ways to re-use structures.

*Dorothy Day/Higher Ground, St Paul, MN; North Loop Tower, Minneapolis, MN; Minneapolis Armory Renovation, Minneapolis, MN; Thresher Building/ Canopy Hotel, Minneapolis, MN; Venue Mixed Use, Chanhassen, MN; Hmong Academy-Phase IV, St. Paul, MN; DNR Office, Glenwood, MN; North Loop Ramp, Minneapolis, MN*

## MEYER BORGMAN JOHNSON

MEYER | BORGMAN | JOHNSON  
STRUCTURAL DESIGN + ENGINEERING

510 Marquette Avenue South  
Minneapolis, MN 55402  
Tel: (612) 338-0713  
Email: [mcurran@mbjeng.com](mailto:mcurran@mbjeng.com)  
[www.mbjeng.com](http://www.mbjeng.com)  
Year Established: 1955  
Total in MN Office: 79  
In Other Offices: 15  
Other Offices: Duluth, MN; Rochester, MN; Green Bay, WI; Phoenix, AZ  
Contact: Murphy Curran, (612) 604-3623

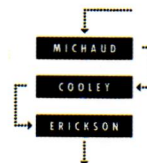
### Firm Principals

Daniel E. Murphy, PE  
Jerod Hoffman, PE  
Jason Pederson, PE  
Kathleen John  
Brion Szved, PE, LEED AP  
Matt Thomas, PE, SE  
Ryan Hopeman, PE, SE  
J.W. Murphy Curran, PE

Thorough, responsive, and creative structural design and engineering for all building types. Providing design solutions that fulfill the architectural vision while maintaining constructability and value to the owner. Services include design, analysis, feasibility studies, construction documents, field observation, special inspections, forensics, ramp condition surveys, preservation engineering, fabricator services, integrated steel design and detailing, and more.

*American Express Office Campus, Phoenix, AZ; Discovery Square Biosciences Building, Rochester, MN; Fairview Riverside East and West Campus Renovations, Minneapolis, MN; Hub Minneapolis Apartments, Minneapolis, MN; UMD Heikkila Chemistry and Advanced Materials Science, Duluth, MN; Mayo Clinic Expansion, Phoenix, AZ; Kraus Anderson Block, Minneapolis, MN; Berkman Apartments Mixed Use Development, Rochester, MN*

## MICHAUD COOLEY ERICKSON



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Email: [info@michaudcooley.com](mailto:info@michaudcooley.com)  
[www.michaudcooley.com](http://www.michaudcooley.com)  
Year Established: 1946  
Total in MN Office: 127  
Contact: Doug Cooley, (612) 339-4941

### Firm Principals

Doug Cooley, PE, LEED AP  
Kerry Cooley Bruggemann, PE, LEED AP  
Jeff Clark, LEED AP  
Jason Petermann, PE, LEED AP  
Greg Trende, PE, LEED AP  
Eric Stelmack, PE, LEED AP

Minneapolis-based Michaud Cooley Erickson (MCE) designs and commissions mechanical, electrical, lighting, fire protection, security, technology systems and energy management solutions for buildings of any size and function. MCE's dedicated professionals specialize in engineering-intensive projects and efficient internal systems operations, devising innovative engineering solutions in aviation, corporate, healthcare, science & technology, mission critical, and other markets. Our clients include more than 80% of Minnesota's Fortune 500 companies and all of the state's top ten employers.

*Metropolitan Airports Commission, Minneapolis, MN; 3M, Maplewood, MN; Fairview Health Services, Minneapolis, MN; Medtronic, Nationwide, USA; Mayo Clinic, Rochester, MN; Dunwoody College of Technology, Minneapolis, MN; Target, Nationwide, USA; US Bank, Nationwide, USA*

## NORTHERN TECHNOLOGIES, LLC



6160 Carmen Avenue East  
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www.ntigeo.com  
Year Established: 1996  
Total in MN Office: 45  
In Other Offices: 65  
Other Offices: Fargo, Grand Forks,  
Bismarck & Minot, ND; Sioux Falls  
& Rapid City, SD; Ramsey, MN  
Contact: Tanya Pierce, (651) 389-4170

### Firm Principals

Barry Morgan, PE  
Ryan Benson, PE  
Nick Berglund, PE  
Jim Wentzlaff, PE

Northern Technologies LLC (NTI) is a consulting engineering firms with expertise in geotechnical engineering, materials testing, special inspections, nondestructive testing, quality assurance and quality control. Founded in 1996, our project teams provide clients with innovative and exceptional service as registered engineers, engineers in training, special inspectors, laboratory and field technicians. NTI serves clients in the commercial, industrial, and municipal markets from eight offices throughout North Dakota, South Dakota and the Twin Cities.

*University of Minnesota Athlete's Village, Minneapolis, MN; Hennepin County Medical Center Addition, Minneapolis, MN; Rex 26, St. Paul, MN; Theatre Garage, Minneapolis, MN; University of MN Medical Center, Fairview Health Services, Minneapolis, MN; Rise at Prospect Park, Minneapolis, MN*

## REIGSTAD ENGINEERS, INC.



192 West 9th Street  
St. Paul, MN 55102  
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Email: jcollins@reigstad.com  
www.reigstad.com  
Year Established: 1979  
Other Offices: Gulfport, MS  
Contact: Jim Collins, (612) 770-1471

### Firm Principals

Gordon Reigstad, PE, SE, PhD  
Jim Collins  
Jason Reigstad  
Jared Reigstad, PE

Established in 1979, Reigstad provides structural design, precast engineering and parking consulting for both new and renovation projects throughout the US. We work with a broad range of clients, both public and private, on a variety of project types and sectors. Our goal is to provide a safe, efficient and economical system tailored to our clients' needs, meeting time and budget requirements. We offer alternate design options for every project.

*Wayzata Blu, Wayzata, MN; RiverCentre Parking, St. Paul, MN; City Vue Apartments and Parking, Eagan, MN; Running Aces Hotel, Columbus, MN; DaVinci Academy, Blaine, MN; Vikings Practice Facility, Eagan, MN; UFG Building, Cedar Rapids, IA; Potawatomi Hotel & Casino Phase II, Milwaukee, WI*

## SEH



Building a Better World  
for All of Us®

3535 Vadnais Center Drive  
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Email: trustedadvisor@sehinc.com  
www.sehinc.com  
Year Established: 1927  
In MN Office: 433  
In Other Offices: 296  
Other Offices: Denver, Lakewood, Pueblo, CO; Indianapolis, Michigan City, Munster, IN; Des Moines, Mason City, IA; Brainerd, Duluth, Grand Rapids, Hutchinson, Mankato, Minnetonka, Rochester, St. Cloud, Virginia, MN; Omaha, NE; Bismarck, ND; Sioux Falls, SD; Appleton, Chippewa Falls, Delafield, La Crosse, Madison, Milwaukee, New Richmond, Rice Lake, Sheboygan, WI; Cheyenne, WY  
Contact: Scott Blank, (651) 490-2000

### Firm Principals

Scott Blank -Architecture  
Sue Mason-Civil  
Chad Westbrook -Mechanical/Electrical  
Ben Wolf-Structural  
Miles Jensen-Water  
Karen Cavett-Wastewater  
Deric Deuschle-environ. & natural resources  
Benita Crow-airports

At SEH, our professional consultants connect government, commercial and industrial clients to solutions they need to succeed in the world today. We're simplifying the world's complex challenges by improving mobility, designing better places, engineering clean water and renewing infrastructure. Together, we're Building a Better World for All of Us®.

*Osceola Discovery Center, Osceola, WI; Lake Street MTC Transit, Minneapolis, MN; Nicollet Mall Reconstruction, Minneapolis, MN; Maplewood City Hall HVAC Upgrades, Maplewood, MN; McLeod County Historical Museum, McLeod, MN; City of Wadena Utility Building Remodeling, Wadena, MN; Rice Lake Public Works Building, Rice Lake, WI; City of Hudson Water Treatment Plant #10, Hudson, WI*

## SRF CONSULTING GROUP, INC.

1 Carlson Parkway N, Ste. 150  
Minneapolis, MN 55447  
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Email: mmcgarvey@srfconsulting.com  
www.srfconsulting.com  
Year Established: 1961  
Total in MN Office: 280  
In Other Offices: 30  
Other Offices: Fargo, ND; Bismarck, ND; Madison, WI; Milwaukee, WI; Omaha, NE  
Contact: Mike McGarvey, (763) 249-6753

### Firm Principals

Mike McGarvey, PLA, LEED AP  
Paul Schroeder, PLA  
Mike Aaron, PE  
Eric Roerish, PE  
Steve McHenry, PE  
Matt Cramer, PE  
Dean Dusheck, PLS

Headquartered in Minneapolis, SRF's 310 engineers, landscape architects and planners work with public and private sector clients across the Midwest, including North Dakota and Wisconsin. Our award winning projects range from site master planning and designing sustainable site developments to revitalizing neighborhoods and urban spaces. SRF is committed to delivering lasting quality, striving for innovation and sustainability, providing superior service and being true to the spirit of collaboration.

*Treasure Island Center, Saint Paul, MN; MacQueen Equipment, Saint Paul, MN; Berean Baptist Church, Burnsville, MN; Hyland Ski Area Chalet Site Design, Bloomington, MN; Civic Center / 2nd Street Riverfront Urban Design, Fargo, ND; Auburn Meadows Senior Living, Waconia, MN; Kensington Runestone Park Visitor Center, Alexandria, MN; Hy-Vee Grocery Stores, Fitchburg, WI*

## STEEN ENGINEERING, INC.



5430 Douglas Drive North  
Crystal, MN 55429  
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www.steeneng.com  
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Total In MN Office: 31  
Contact: Mark Brengman, (763) 585-6742

*continued next column*

## Firm Principals

Mark Brengman, PE  
Steve Youngs, PE

Green Engineering provides mechanical and electrical engineering design from feasibility studies to construction documents. Design experience includes corporate, municipal, medical, hospitality, institutional and retail. Providing HVAC, plumbing, fire protection, lighting, power distribution, life safety, automatic temperature control, energy and analysis and deficiency studies.

The Waters Senior Living, throughout MN;  
Target Field Station, Minneapolis, MN;  
Banfield Pet Hospitals, throughout US;  
Prospect Park, Minneapolis, MN; Green  
on 4th Apartments, Minneapolis, MN;  
Finnegan's Brewery, Minneapolis, MN;  
Simply Self Storage, Woodbury, MN;  
Bruegger's Bagels, throughout MN

TKDA



444 Cedar Street, Ste. 1500  
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www.tkda.com  
Year Established: 1910  
Total in MN Offices: 255  
Total in Other Offices: 26  
Other Offices: Duluth, MN; Chicago, IL;  
Los Angeles, CA; San Bernadino, CA;  
Seattle, WA  
Contact: Tom Stoneburner, (651) 292-4485

## Firm Principals

Tom Stoneburner, PE, LEED AP  
Jeff Lipovetz  
Ruth Christensen, PE, SE  
John Ahern, PE  
Rusty Steitz, PE  
Brad Jones, PE  
Robert Young, PE  
Dennis Postler, PE

Single source, multidisciplinary firm serving clients in the following markets: Corporate + Industrial, Education, Government, and Mining. Services include: Mechanical, Electrical, Structural, and Civil/

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Site Engineering; and Architecture, Interiors, and Landscape Architecture. Systems: Structural and Architectural Building Systems; Boiler and Chiller, Process Piping, HVAC, Plumbing, and Fire Protection; Power Distribution, Lighting, Fire Alarm, Security, Instrumentation and Controls; Access Roads, Parking Lots, Utilities, Water Supply, Water and Wastewater Treatment.

Pioneer Hall Renovation, University of Minnesota, Minneapolis, MN; Camp Ripley Education Center M/E Upgrades, MN Dept of Military Affairs; MAC, Ongoing Architectural, Civil, Structural, MEP Projects, Minneapolis-St. Paul International Airport; Metropolitan Council Environmental Services, Wastewater Treatment Plant Upgrades, Minneapolis-St. Paul Metro Area; Metro Transit, Ongoing Architectural, Mechanical, Electrical, Structural, Civil Projects, Minneapolis, MN; Xcel Energy, Ongoing Architectural, Mechanical, Electrical, Structural, Civil Projects, Nationwide; United Taconite, Ventilation Study, Forbes, MN

## VAA, LLC



2300 Berkshire Lane North, Ste. 200  
Plymouth, MN 55441  
Tel: (763) 559-9100  
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www.vaaeng.com  
Year Established: 1978  
Total in MN Office: 160  
In Other Office: 4  
Other Office: Sioux Falls, SD  
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## Firm Principals

Jeff Schrock, PE  
Keith Jacobson, PE  
Mark Mielke, PE  
Brian Dalton, PE, SE  
Andy LaPalme, PE  
Kelsey Brown, PE, SE  
Quin Vincent  
Vlad Dain, PE

VAA appreciates architectural design priorities, recognizes other engineering disciplines and listens to owner objectives. We offer civil and structural engineering while

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regularly using 3D modeling for commercial and industrial buildings, including corporate, medical, retail, hospitality and Government-related work. Nationwide experience with architects, contractors and owners has bolstered our resume in seismic and high coastal wind design along with an understanding of regional construction techniques and materials.

Veterans Affairs Medical Center, Minneapolis, MN; LAT14, Golden Valley, MN; Maple Grove Junior High School Gym Expansion, Maple Grove, MN; Bellecour, Wayzata, MN; Camp Ripley Education Complex Addition, Little Falls, MN; Roseville Fire Station #1, Roseville, MN; MN Veterans Home Building 22, Minneapolis, MN; Disney Springs The BOATHOUSE, Lake Buena Vista, FL

## WENCK



7500 Olson Memorial Highway, Ste. 300  
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Year Established: 1985  
Total in MN Office: 245  
In Other Offices: 78  
Other Offices: Duluth, Maple Plain, St. Paul, Windom, Woodbury, New Hope, MN; Roswell, GA; Mandan, Fargo, ND; Fort Collins, Denver, CO; Cheyenne, Sheridan, WY  
Contact: Peter Miller, (763) 252-6800

## Firm Principals

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Vince Vander Top, PE  
William Brown, PE  
Peter Miller, PSS, PSC  
Larry Berndt, PE  
Pamela Massaro, PE  
Lori Bartels, PE  
Kathryn Anderson, PE

Founded in 1985, Wenck provides environmental, engineering, construction, and response services to both public and private clients across the United States and Canada. We are a team of 275+ technical experts committed to air, water, waste, land/natural resources, and infrastructure.

## WOLD ARCHITECTS AND ENGINEERS



322 Minnesota Street, Ste. W2000  
St. Paul, MN 55101  
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www.woldae.com  
Year Established: 1968  
Total in MN Office: 200  
In Other Offices: 240  
Other Offices: Palatine, IL; Denver, CO

## Firm Principals

R. Scott McQueen, AIA  
Vaughn Dierks, AIA  
Lynae Schoen, IIDA  
Kevin Marshall, PE  
Matt Mooney, PE  
Joel Dunning, AIA  
Paul Aplikowski, AIA  
Josh Ripplinger, AIA

Wold Architects and Engineers is a full-service design firm focused on sustainable architecture and engineering for education, government, healthcare and senior living facilities. Since 1968, Wold is committed to delivering exceptional, long-term service to clients and their communities.

Milwaukee Federal Courthouse BAS Upgrades Milwaukee, WI; Hutchinson Health Inpatient Care Addition, Hutchinson, MN; Centerview Elementary, Blaine, MN; City of Cottage Grove Fire Station, Cottage Grove, MN; Lyngblomsten Care Center Renovation, St. Paul, MN; New Minnesota Veterans Homes in Bemidji, Montevideo and Preston, MN; Scott County Campus Addition and Renovation, Shakopee, MN; Shakopee High School Addition, Shakopee, MN

**University of Minnesota  
Athletes Village**

**Page 24**

Location: Minneapolis, Minnesota  
Client: University of Minnesota  
Architect of record: BWBR  
Principal-in-charge: Greg Fenton, AIA  
Project lead designer: Daniel Treinen, AIA  
Project manager: Dustin Rehkamp, AIA  
Project architect: Michael Jensen, AIA; Mike Gray; Kate Poland, AIA  
Project team: Hanna Kuehl; Kyle Lunke; Bryan Desma, AIA; Roger Larson, AIA; Mike Schnegelberger; Dan Sterner; Pete Haag; Emma DeMartelaere; Danny Sim; Rachael Spire, AIA; Sheldon Wolfe; Chris Fischer, AIA; Al Oberlander, AIA; Sean Page, AIA; Blaine Perau; Cathy Neumann; Hanna J. Hayes; Renee Thomas, AIA  
Associate architect: RDG Planning & Design  
Experiential design: Advent  
Energy modeling: The Weidt Group  
Structural engineer: Palanisami & Associates, Inc.  
Mechanical and electrical engineer: MEP Associates  
Civil engineer: Pierce Pini & Associates  
Lighting designer: RDG Planning & Design  
Interior designers: BWBR; RDG Planning & Design  
Dining: Rippe Associates  
Construction manager: Mortenson Construction  
Landscape architect: Damon Farber  
Landscape project team: Thomas Whitlock; Lance Schuer  
Precast: Wells  
Cabinetwork and millwork: Aaron Carlson Corporation  
Wood athletic flooring: Robbins Sports Surfaces  
Artificial turf: FieldTurf  
Resilient athletic flooring: Plae  
Tile: CD Tile & Stone  
Window systems: Egan Company  
Architectural metal panels: MG McGrath  
Concrete work: Northland Concrete & Masonry  
Photographer: Brandon Stengel, Assoc. AIA

**Haverford College Visual  
Culture, Arts, and Media (VCAM)  
Building**

**Page 30**

Location: Haverford, Pennsylvania  
Client: Haverford College  
Architect: MSR Design  
Principal-in-charge: Traci Lesneski, Assoc. AIA  
Project lead designers: Traci Lesneski, Assoc. AIA; Dagmara Larsen, Assoc. AIA  
Project manager: Dagmara Larsen, Assoc. AIA  
Project architect: Bob Ganser, AIA  
Principal design advisor: Thomas Meyer, FAIA  
Project interior designer: Veronica McCracken  
Signage designer: Ligeia Cholensky  
Other project team members: Ben Lewis; Patrick, Lynch; Martin Meyer; Benjamin Schwarz; Daniel Vercruysee, AIA  
Energy modeling: Bruce E. Brooks & Associates  
Structural engineer: Keast & Hood Co.  
Mechanical and electrical engineer: Bruce E. Brooks & Associates  
Civil engineer: Nave Newell, Inc.  
Lighting designer: Gallina Design, LLC  
Interior designer: MSR Design  
Construction manager: Whiting-Turner  
Landscape architect: Haverford College Arboretum  
Landscape project team: Haverford College Arboretum; MSR Design; Nave Newell (civil engineer)  
Masonry Restoration (schist stone and limestone): Zavorski Masonry Restoration  
Cabinetwork: Stofanak Custom Cabinetry  
Custom woodwork: Glick  
Tessuti mosaic tile: Appiani  
Savoy wall tile: Ann Sacks  
Advance rubber flooring (track): Mondo  
Carpet: Superflor (Interfaceflor); Lita (DESSO)  
Wood-frame window restoration: Iconic Windows  
Hollow metal frame: Curries (Assa Abloy)  
Interior storm windows: Allied Window  
Copper roofing details, slate shingle roof, and snow rails: GSM Roofing  
Custom copper cupola cap: AC Gentry  
Custom steel canopies, entry wraps, stairs, handrails, and guardrails: Anvil Craft  
Concrete work: Bazella Group  
Photographer: Lara Swimmer

**Carleton College Music and  
Performance Commons**

**Page 36**

Location: Northfield, Minnesota  
Client: Carleton College  
Architect: HGA Architects and Engineers  
Principal-in-charge: Roxanne Nelson, AIA  
Design principal: Tim Carl, FAIA  
Project lead designer: Andrew Weyenberg, AIA  
Project manager: Rebecca Celis, AIA  
Project architects: Rebecca Krull Kraling, AIA; Andrew Holmgren AIA  
Project team: Nat Madson, AIA; David Johansson, AIA; Ariane Laxo; Danielle Peterson; Steven Philippi  
Energy modeling: HGA; The Weidt Group  
Structural, mechanical, electrical, and civil engineer: HGA  
Engineering team: Jon Wacker; Leighton Deer; Zachary Poynter; Bradley Roath  
Lighting designer: Schuler Shook; HGA  
Lighting team: Paul Whitaker; Christa Belasco  
Theatrical design and specialty lighting: Schuler Shook  
Acoustics and audiovisual design: Acoustic Distinctions  
Interior designer: HGA  
Interior design team: Ariane Laxo; Danielle Peterson  
General contractor: McGough Construction  
Mechanical contractor: Schadegg Mechanical  
Electrical contractor: Hunt Electric  
Landscape architect: HGA  
Landscape team: Theodore Lee  
Face brick: McGough Construction  
Wood flooring: Anderson Ladd  
Curtain wall: Twin City Glass  
Architectural metal panels: MG McGrath  
Concrete work: McGough Construction  
Cabinetry and millwork: Wilkie Sanderson  
Specialty theatrical equipment: Wenger Corporation  
Photographer: Albert Vecerka

**Hide & Seek**

**Page 40**

Location: MoMA PS1, Long Island City, New York  
Architect: Dream the Combine  
Principals and lead architectural designers: Jennifer Newsom, AIA; Tom Carruthers, AIA  
Project team: Max Ouellette-Howitz; Tom Vogel; Nero He; Emmy Tong; Mikki Heckman  
Structural engineer: ARUP  
Lead structural designer: Clayton Binkley  
Structural engineering team: Kristen Strobel; Alex Reddihough; Vaidas Razgaitis  
Lighting designer: ARUP  
Lead lighting designer: Yuliya Savelyeva  
Lighting design team: Janelle Drouet; Brian Stacy; Susheela Sankaram  
General contractor: Jacobsson Carruthers, LLC  
Fabrication and installation team: Bo Jacobsson; Tom Carruthers, AIA; John Friedrichsen; Nate Gustafson; Axel Schow; Maddie Vail; Jane Thompson; Shannon McElree; David Koloc; Allisen Graff; Tiara Hill; Mark Greenlund; Erik Grinde; Elliot Post  
Rigging: Murphy Rigging  
Rigging team: Justin Gallo; Wayne Bachman; Lonny Dickenson; Andy Millwright; Andrew Klosowski; Shawn Cason; Ian Buckley; Charles Matthews; Tim Skager; Nolan Ferrick; Tim Cray; John Wickoren  
Custom fabrication: LnJ Tech Services  
Custom fabrication team: Jason Hughes  
Construction: Liskelly Construction  
Welding: Checkpoint Welding  
Additional welding team: Greg Henderson; Kristine Kim; Abby Walsh; Joseph Dudley  
Installation volunteers: Griffin Pemberton; Dillon Pranger; Justin Tan; Joseph McGranahan; Alejandro Garcia; Victoria Clarke; Nicole Cheng; London King; Michael Babcock; Youngjin Yi; Emily Cass; Page Comeaux; Adam Feldman; Phoebe Harris; Katie Lau; Jackson Lindsay; Christine Pan; Deirdre Plaus; Rhea Schmid; Seth Thompson; Kay Yang; Kyle McGahan; Haniyeh Mirdamadi; Lalitphan Pongpornprot; Kuan-I Li; Chandi Azeez; Yishan Zhuang; Marta Casarin; Ana Ahumada; Mreenvoy Paul; Saumya Monga; Jacinda Ross; Leonard Roussel; Srushti Totadri; Marien Velez; Greg Melitonov; Mathew Ford; Saw Hla Nwe; Belinda Silverne  
Welding inspection: Kevin Foote; Denise "Seven" Bailey; Spencer Whynaucht

Mosaic system programming:  
Jlyssa Eilbott

Canopy fabric: Hunter Douglas  
Architectural (Mermet E-Screen,  
100-percent openness in charcoal)

Linear lighting fixtures: Q-Tran

Flood lights: Insight

Lighting and mist control system: ETC  
(Electronic Theater Controls, Inc.)

Lighting representative agency:  
Enterprise Lighting Sales

Lifting system: Biogenesis  
HEFOGSYSTEM

Hammock netting: InCord (5/8-inch,  
1/2-inch diagonal mesh three-strand  
polyester rope cargo net with 815 bed  
net lashed to the perimeter in black)

Mirror installation: Complex Metal  
and Glass

Mirror supplier: Kings Glass

Steel supplier: Garelick Steel

Shipping: Acorn Express

Insurance: Insurance Advantage  
Agency

Food service: Court Square Diner

Accommodations: Boro Hotel;  
City Sonnet

Additional project support: University  
of Minnesota College of Design; Peggy  
Lucas; Peterssen/Keller Architecture;  
3WBR; DLR Group; HGA Architects  
and Engineers; Snow Kreilich  
Architects; 4RM+ULA; Sarah Nettleton  
Architects; Perkins+Will; Albertsson  
Hansen Architecture; Cuninghame  
Group Architecture

Video: Isaac Gale

Photographers: Pablo Enriquez;  
Caylon Hackwith; Andrew Latreille

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*International Falls sits on the Rainy River across from Ontario, Canada. It's record low temperature is 55 degrees below zero, set on January 6, 1909.*

International Falls, Minnesota, takes great pride in its reputation as the Icebox of the Nation, so Alliance developed a Nordic Voyage, Nordic Frost design theme for the city's new 17,000-square-foot airport terminal. The rich interior warmth of **Falls International Airport** is hinted at with a wood-lined wall at the entry, and the the Nordic concept carries through into the interiors with regional building materials, landscape-framing windows, and colors and patterns that evoke Scandinavian textiles. The terminal's warm wood ceilings, sunny yellow furniture, and toasty fireplace invite travelers to admire the chilly northern landscape while basking in the cozy indoors.

