



INTEGRATING UTILITY SYSTEMS WITH PRECAST CONCRETE

The most common and efficient method to integrate and install utility systems (such as electrical, plumbing, and HVAC) with precast concrete construction is to locate and position utility lines and openings in precast wall panels at the plant during production. With early involvement and coordination with the architect, general contractor and MEP engineers, electrical conduit, wiring, outlet boxes, and plumbing opening locations can be carefully planned to avoid any design or construction site conflicts. Integrating electrical and plumbing systems during precast production at the plant saves time and money on the jobsite and improves overall project speed of construction and lowers risk with fewer trades on the jobsite.

USD School of Health Sciences Addition



A highly anticipated addition on the University of South Dakota's campus is the new hub for hands-on education, collaboration, and research for the University of South Dakota's health professional disciplines. Faculty and staff are enjoying new office spaces while students are

learning in state-of-the-art simulation rooms and lab settings. The new addition has enabled the University to increase enrollment more than 50% in multiple programs, including dental hygiene, nursing, and social work, with an objective of placing health care professionals in critical high-need South Dakota communities.

match the existing campus structures, the architectural precast concrete wall panels were completed with a sandblast finish and an Endicott thin brick.

Work on the \$22.5 million, three-story, 45,000 square foot addition began in April 2021. The facility opened to students in September 2022.

Architect: **Architecture Incorporated and Perkins&Will**
Engineer: **SEA (Structural Engineering Associates)**
Contractor: **Journey Construction**
Owner: **University of South Dakota**
Precaster: **Gage Brothers**
Precast Specialty Engineer: **Gage Brothers**
PCI Certified Erector: **Journey Construction**
Thin Brick Manufacturer: **Endicott Thin Brick & Tile LLC**
Photo Credits: **Brian Rotert with Cipher Imaging and Interstate Office Products, Inc.**
Location: **Vermillion, SD**
Year of Completion: **2022**

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Kids Can Community Center



The mission of the Kids Can Community Center is to educate, engage, and inspire children through early childhood care and out-of-school experiences. The new community center is key to making the mission a reality. The almost 27,000 square-foot facility has two infant rooms, four toddler classrooms, a cafeteria that doubles as a community meeting space, and three out-of-school classrooms that include a STEM room and a full-court gymnasium.

Precast concrete was chosen for the construction of the community center because it enabled the project to be completed quickly with erection taking place in the winter months. The Precast concrete durability also played a role in its selection for the project. A bonus was the ease with which a storm shelter would be incorporated using precast concrete.

For this project, Coreslab Structures (Omaha) Inc. produced 45 insulated precast concrete wall panels ranging from 12" in the classrooms to 14" in the gymnasium all with three inches of extruded insulation. The wall panels have a grey sandblasted finish. Coreslab Structures (Omaha) Inc. also produced twelve double tees with 4" flanges that were incorporated into the community center's storm shelter.

Architect: **Holland Basham Architects**
Engineer: **Nielsen-Baumert Engineering**
Contractor: **Boyd Jones Construction Co.**
Owner: **Kids Can**
Precaster: **Coreslab Structures (Omaha) Inc.**
Precast Specialty Contractor: **eConstruct**
Image Credits: **Matt Corbitt**
Location: **Omaha, NE**
Year of Completion: **2022**

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American Concrete Products Office Building



When American Concrete Products needed new office space, their choice of building material was never in question. The 3,800 square foot structure was designed to incorporate and showcase precast concrete products. The building, which is situated near

the main entrance gate to their large precast production facility, includes a reception area, lobby, conference room, and multiple private and open office spaces. The final design for the structure is a perfect blend of precast concrete, glass and metal wall panels that fold and wrap around each other to create a visually dynamic piece of architecture.

While American Concrete Products does not produce architectural precast concrete wall panels, their sister company, Enterprise Precast Concrete, does. Enterprise Precast Concrete produced forty insulated precast concrete sandwich panels for the project. Insulated precast concrete sandwich wall panels provide a versatile and economical means to meet the structural, thermal, moisture, and architectural requirements of a structure.

The load-bearing precast concrete panels used on this project incorporate the use of two concrete colors with two different finishes.

The primary exterior finish is acid etch with areas of light sandblast below and above the window openings. Additionally, the design uses two formliners manufactured by Architectural Polymers to break up the scale of the precast panels and create visual interest.

The use of precast also allowed the construction team to get the building enclosed more quickly compared to other more traditional exterior building envelope systems.

Architect: **Carlson West Povondra**
Engineer: **InfraStructure**
Contractor: **Hawkins Construction**
Owner: **Enterprise Properties**
Precaster: **Enterprise Precast Concrete**
Precast Specialty Engineer: **Enterprise Properties**
Formliner Manufacturer: **Architectural Polymers**
Photo Credits: **Arch Photo KC**
Location: **Valley, Nebraska**
Year of Completion: **2022**



www.enterpriseprecast.com



Chippewa Valley Technical College Transportation

At Chippewa Valley Technical College's brand new, state-of-the-art Transportation Education Center, you can drive your future to an in-demand career in the transportation industry. When Molin Concrete Products Company was invited to provide a proposal on this project, the project architect had already specified a special form liner and had a color scheme chosen that would give the new facility an updated contemporary feel.

Once awarded the project, precast concrete samples with color and textures were produced for the architect and owner for review. By being able to see, touch, and feel these samples, the owner and architect were able to better visualize how the completed building would look. A mockup panel was then produced for the architect and owner that illustrated the final color and texture selections as well as project specific details.

The 42,600 square feet of insulated architectural precast concrete wall panels incorporate multiple colors and finishes to add depth and character to the structure. One of the finishes selected was an etch finish on a white architectural concrete mix at the corrugated form liner panels which gave depth to the façade. Other wall panels utilized a light and a dark architectural concrete mix with a light blast finish.

In addition to the architectural precast concrete wall panels, Molin produced 1,600



square feet of solid precast concrete wall panels and 7,800 square feet of hollow core plank. Throughout the process, Molin's project manager and field superintendent

coordinated site access, crane and trucking logistics, safety, and installation plans to make sure installation was completed on budget and on schedule.



Architect: **SDS Architects**
(now River Valley Architects)
Engineer: **Ericksen Roed & Associates**
Contractor: **Market & Johnson**
Owner: **Chippewa Valley Technical College**
Precaster: **Molin Concrete Products Company**
Precast Specialty Engineer:
Stehler Structural Engineering
PCI Certified Erector:
Molin Concrete Products Company
Location: **Eau Claire, WI**
Year of Completion: **2022**

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MLS Stadium



MPC Enterprises produced over 825 pieces of precast concrete for use in the new St. Louis CITY major league soccer stadium. Construction broke ground on the 22,500-seat open air stadium in February of 2022 and the facility opened November 16, 2022. The precast concrete, which included wall panels, stairs, risers, spandrels, beams, and

flat slabs, took eight months to produce and five months to erect.

The wall panels and spandrels received a trowel finish that left the precast ready for paint. The stairs had a light sandblast finish and the risers had a broom finish making both slip-resistant. Custom Helser Riser Forms were used to accommodate the many different rises and runs of the stadium.

During the erection phase, precast concrete loads had to be shuttled through an underground access tunnel with only one way traffic. That same tunnel was used by all trades. Three crawler cranes were in the stadium bowl during the erection process. One of the cranes was used to erect the supporting steel for the precast and main structure. A second crane was used to erect

the precast concrete. The final crane was used to erect the canopy.

Erection of the precast concrete also included lifter patching, grouting, joint caulking, and patching of connections.

Architect: **HOK**
Engineer: **HOK**
Contractor: **Mortenson/Alberici/Keeley**
Owner: **TKFC LC**
Precaster: **MPC Enterprises Inc / AVAN Precast Concrete**
Precast Specialty Engineer: **CEG**
PCI Certified Erector: **Kienlen Constructors**
Location: **St Louis, MO**
Year of Completion: **2022**



www.mpcnt.com



Vue at BlueStone



The Vue at BlueStone, located in Duluth, Minnesota, features 193 luxury, pet-friendly apartment homes with studio, 1, 2 and 3-bedroom floor plans. The apartment homes feature oversized windows, expansive ceilings, custom cabinets, in-home laundry and more. Residents of the Vue at BlueStone can enjoy a year-round indoor swimming pool, large hot tub, steam rooms, fitness areas, oversized great room, game room with a golf simulator, co-working space, large outdoor lawn terrace, underground heated parking, pet spa, and

a 5th floor clubroom for entertaining and events.

Taracon Precast produced the precast concrete pieces that were used to construct the podium for the structure. The precast concrete podium consists of one level of underground parking and the first-floor residential level. Four additional wood framed levels of residential apartments sit on top of the precast concrete podium. The precast concrete podium utilizes 87 precast concrete columns, 161 beams, and

84,648 square feet of solid masonry brick, and several different types of siding. The pool that is situated in the center of the residential level of the podium is framed by spandrel beams. The exterior of the building is a mixture of masonry brick, and several different types of siding.

The Farmer's Almanac lists Duluth as the second worst winter weather city in the

country, so it's not surprising that precast concrete was selected for this project since it was scheduled to be constructed during the winter months. Fortunately for places like Duluth, precast concrete offers rapid on-site installation and cost effectiveness even in frigid weather. Precast also provides an immediate barrier to the elements, including insulating properties against the cold, allowing work to be done inside the building.

Architect: **Doran Architecture**
Engineer: **BKBM Engineers Inc**
Contractor: **Doran Construction Company**
Owner: **Vue at Bluestone, LLC**
Precaster: **Taracon Precast**
Precast Specialty Engineer: **Midwest Structure Engineering**
PCI Certified Erector: **Wysan Precast Services**
Location: **Duluth, MN**
Year of Completion: **2021**



www.taraconprecast.com



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