

We Hope Your Plans Include Precast Concrete



HOW PRECAST BUILDS



The most versatile of building systems is precast concrete construction. Its ability to adapt to many different functions makes it a favorite of architects, engineers, and contractors alike. What can you build with precast concrete? Ask that question to anyone in the design community and you will receive MANY different answers of their favorite applications of precast concrete. From NFL stadiums, office buildings, schools, data centers, and student housing, to retail, prisons, courthouses, parking structures and much more, precast concrete reinvents itself every time it is specified. If you can dream it, precast concrete can build it!

Kinnick Stadium North End Zone Renovations

The University of Iowa's rebuilt north end zone grandstand at Kinnick Stadium pays homage to the past. The Kinnick Edge project replaces the existing general admission seating bowl in the north end zone with upper and lower general admission seating bowls, two concourses, and a premium club level. Both concourses increase and improve concession and restroom facilities. The main concourse on street level enjoys an unobstructed view of the field. The upper concourse has open decks at the east and west ends with views to the field and places where fans can congregate. Between the two concourse levels is a premium club level. The footprint of the site is very small, pinched to the north by Evashevski Drive. To fit, the new program requires a three-deck superstructure that cantilevers up and partially over Evashevski Drive. The design takes advantage of modern materials, creating a unique façade for the club and upper concourse while aligning with the geometry and massing of historic east and west towers. The exterior of the upper levels is a combination of glass and precast architectural panels that wrap the north end to provide a windbreak enclosure. The new scoreboard features a logo to the exterior and, with its elevated position above the upper bowl, serves as beacon to the north that is visible for miles. Because of the proximity of a street on the north side of the stadium, the new construction created more vertical space. In addition to creating a louder environment



inside the stadium, about the only thing Iowa coach Kirk Ferentz requested of the new space, the vertical nature of the facility created closer viewing opportunities.

The north end zone expansion project was fully coordinated using BIM by all trades. This allowed for maximum coordination between all construction trades as well as ensuring there were no job components that interfered with the final finished space; for example, drain locations were moved on the underside of the tub sections so as to

not interfere with where TVs were hung in the suite areas. As a result of using BIM, no field fixes were required for fitment issues or interference with the steel raker beam structure.

The project was funded entirely through the sale of the area's premium seats, donations and reserves from Iowa's self-supporting athletics department.

Project and Precast Concrete Scope

- 50,000 square-feet of precast stair tread & risers
- 13,000 square-feet of precast tubs
- 25,100 square-feet of platforms, stairs & vomitory walls
- 4,500 square-feet of elevator wall panels

Location: **Iowa City, Iowa (University of Iowa)**
Architect: **Neumann Monson Architects/ HNTB Sports Architecture**
Engineer: **HNTB/Raker Rhodes**
Contractor: **JE Dunn**
Owner: **University of Iowa**
Precast Specialty Engineer: **Adam Roark, Gage Brothers**
Photo credit: **Brian Ray/HawkeyeSports.com**



The Capp/Lowa46



In October of 2017, Molin Concrete Products Company was invited to join the development team for The Capp, which is a precast concrete multi-family housing/mixed-use project. The Capp is located in Minneapolis next to the Blue Line light rail station in the Longfellow and Hiawatha neighborhoods. The structure includes a 5-story 148-unit residential building with 3,000 square feet of small shop retail, a 46,127 square foot Cub Foods grocery store, heated underground parking, and a

large public plaza.

Molin Concrete Products Company's full-service design build team provided early design development assistance on a precast layout that includes minimal columns and large span beams that allows for more options when considering space usage. Throughout the design phases of the project Molin also helped with value engineering and budgetary assistance.

To meet the desired aesthetics, insulated and non-insulated architectural precast wall panels were used with cast-in thin brick veneer.

Molin Concrete Products Company's scope of work included designing, producing, and installation of:

- 2,457 lineal feet (81 pieces) of precast columns
- 3,743 lineal feet (158 pieces) of prestressed beams
- 99,685 square feet of 8", 12" and 16" Hollow Core and solid slabs
- 55,200 square feet of insulated and non-insulated architectural precast wall panels

Precaster, Precast Specialty Engineer, and PCI Certified
Erector: **Molin Concrete Products Company**
Architect: **Pope Architects, Inc.**
Engineer: **BKBM Engineers**
Contractor: **Anderson Companies**
Owner: **Oppidan Investment Company**
Location: **Minneapolis, MN**



MOLIN

www.molin.com

Heart Ministry Center

Omaha's Heart Ministry Center, the state's largest food pantry, outgrew the building it had been occupying since 2005 and broke ground on its expansion project in December 2018. The new facility, which added 14,000 square feet to the North Omaha campus, houses offices for the Fresh Start program and food pantry along with sorting and distribution areas for food and basic needs items.

The exterior façade of the building features architectural precast concrete insulated wall panels. The precast exterior was chosen due to its architectural versatility and cost savings and because of its ability to accelerate the construction schedule. The exterior of the building consists of thin brick and decorative acid etch white accent panels along with full size acid etched panels located at the distribution area of the building. There are several distinct brick coursing patterns along with recessed



lettering incorporated into the exterior while the interior was treated with a sandblasted broom finish in the sorting/distribution area of the building.

The use of precast concrete provided Heart Ministry Center with a beautiful yet functional facility that will continue to serve the community well for many years to come.

Architect: **Alley Poyner Macchietto, Omaha, NE**
Structural Engineer: **Thompson Dressen and Dörner, Omaha, NE**
Contractor: **MCL Construction, Omaha, NE**
Owner: **Heart Ministry Center, Omaha, NE**
Location: **Omaha, NE**



www.coreslab.com

Veterans Memorial Parkway Warehouse

Doubling the size of a warehouse facility may seem like a challenging undertaking, however, construction is efficient with the use of Insulated Sandwich Walls. The flexibility of insulated sandwich wall panels helped Compass Commercial Construction Group to construct Phase 2 of a warehouse

expansion project in one summer.

County Materials manufactured and delivered 103 Insulated Sandwich Wall (ISW) panels to an industrial park southeast of Lafayette, IN. Sitting just off of Veterans Memorial Parkway, a 157,000 sq. ft.

warehouse, home to several companies, was set to double in size. Insulated Sandwich Walls were the ideal choice for this demanding job because they are manufactured to meet project specifications and are ready to erect upon arrival.

The wall panels were designed and manufactured so they could precisely line up with and be connected to the existing building. They matched the look and met the exact needs and functions of the warehouse facility. Each ISW panel was also engineered to meet the requirements of the additional trades that will be working on the building.

Contractor: **Compass Commercial Construction Group, LLC**
Location: **Lafayette, IN**



www.countymaterials.com



220 SE 6th Office Building

The 220 SE 6th Office Building is a high-quality addition to the fast-growing East Village area of Des Moines. The project provided a new home for the offices of PDM Precast and Metals as well as to other companies. PDM Precast provided the precast concrete members as well as the precast concrete specialty engineering to support the owners' and architect's vision for the project. The speed of precast concrete erection coupled with the industrial/loft feel of the interior space allowed for a short construction timeline. The building effectively demonstrates precast concrete's ability to meet both architectural and structural design needs on a cost and time effective basis.

From the use of structural units to provide the superstructure for both the parking and office portions of the project, to fully insulated sandwich wall panels offering high insulation values and a brick architectural finish, precast concrete gifted the building designers the flexibility to easily design a space that works to satisfy the needs of all



of its occupants. The interior of the building utilizes exposed precast concrete members including double tees, columns and beams to give the space an open, natural feel.



Project and Precast Concrete Scope

- 441 Precast Pieces
- 91,000 square feet of Double Tee structural units in both the parking deck and office building.
- 16,000 square feet of insulated brick cladded panels
- 3-story, open-span building

Architect: **Simonson & Associates Architects LLC**
Engineer: **Raker Rhodes Engineering, LLC**
Contractor: **DCI Group**
Owner: **220 SE 6th Street Properties, LLC**
Precast Specialty Engineer: **PDM Precast, Inc.**
PCI Certified Erector: **Northwest Steel Erection, Inc.**
Location: **Des Moines, IA**

PDM
www.pmprecast.com

Learn & Earn Box Lunches

PCI Midwest provides continuing education programs on a variety of topics. These programs are easily tailored to conference room or classroom lunch programs. Architects and engineers can learn about precast concrete hollow-core floors and walls, architectural precast concrete, precast parking structures, glass fiber reinforced concrete, high performance precast concrete and much, much more. Contact mike@pcimidwest.org to request a program for you or your company.



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