

Loring Park Apartments Caisson Cage

Geostructural Solution – Minneapolis, MN



History

Loring Park Apartments is a 36-story high rise building in the heart of the historic Loring Park neighborhood, which consists of 355 luxury apartments.

Problem

The jobsite was on a ¼ city block, which is quite small for building a high rise. The space was further limited by the presence of two drill rigs, two cranes and a concrete crew. Due to the limited space, even moving around the jobsite was a challenge. It would have been extremely difficult for Veit & Company to build 50-70' long rebar cages 3' to 6' in diameter onsite.

Solution

Veit & Company partnered with Skyline Steel to redesign the rebar cages and allow Skyline Steel to build and fully assemble them prior to delivery. The rebar cages were built in Skyline Steel's yard located in Camp Hill, PA. Grade 75 threaded bars were used to replace the rebars with couplings and hex nuts helping to ease constructability. Specially designed end plates and spacers were used to keep all the bars aligned during assembly and cage installation.

Once the rebar cages were fully assembled, they were then transported directly to the jobsite. Taking all the necessary precautions into consideration, the cages were built, shipped, unloaded and installed safely and efficiently to ensure the project needs were met.

Project Partners

Owner

Magellan Development Group, Chicago, IL

Contractor

James McHugh Construction Company & Adolfsen & Peterson Construction (JV) Chicago, IL & Minneapolis, MN

Subcontractor

Veit & Company, Rogers, MN

Engineer

Magnusson Klemencic Associates Seattle, WA

Architect

Loewenberg Architects LLC, Chicago, IL

Products

#18 Threaded Bar Cages