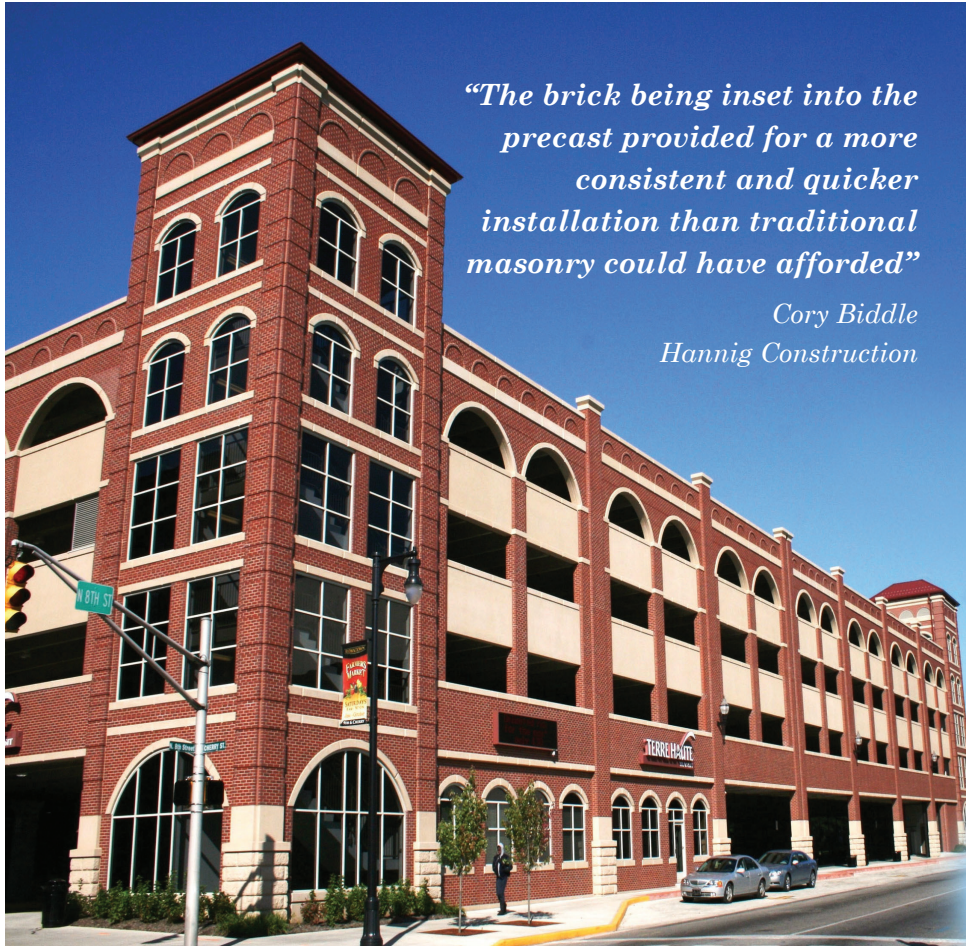


Cherry Street Transit Facility

Terre Haute, Indiana

CORESLAB[®]
STRUCTURES
(INDIANAPOLIS) INC.



“The brick being inset into the precast provided for a more consistent and quicker installation than traditional masonry could have afforded”

*Cory Biddle
Hannig Construction*



Architect: Sanders & Associates
Engineer: Rich & Associates
Contractor: Hannig Construction
Structural Precast: Coreslab Structures
Architectural Precast: Gate Precast

The busy downtown community of Terre Haute near the college campus of Indiana State University was short on parking. The city and Indiana’s Department of Redevelopment’s response is the Cherry Street Transit Facility, housing a five-level, 216,000 square-foot, 636 space parking structure and a transit headquarters and bus transfer facility.

The structure consists of 1,100 pieces of structural and architectural precast concrete components. 60’ long prestressed double tees span over the lower level transit areas and the parking bays above, which provides the users with very open, column-free spaces. The double tee floor members are provided pre-topped, where the finish surface of the plant-cast 6,000 psi concrete is the actual driving surface, providing excellent durability, lower maintenance costs, and a shorter construction time-frame. The double tees are also designed to meet a 2-hour fire rating, required for the multiple uses within the garage.

The exterior architectural precast columns, spandrels, and wall panels were provided as load bearing for the structural precast floor members, which greatly reduced the material required to construct a façade after the structure was erected. This also reduced construction costs in material savings and shorter construction schedule. The overall construction duration was 455 calendar days, erection of the precast structural and architectural members was done in 80 working days, from July 2007 to October 2007.

The Precast system allowed the crane to work within the building footprint for 80% of the erection duration, and precast pieces were delivered just in time, so no lay-down areas or material handling areas outside of the building footprint were required.

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