

Timothy A. Gregor | Associate III



EDUCATION

- Brown University
 - Bachelor of Science, Civil Engineering, 2008
- University of Illinois at Urbana-Champaign
 - Master of Science, Structural Engineering, 2011

PRACTICE AREAS

- Repair and Rehabilitation
- Structural Analysis
- Concrete Structures
- Steel Structures
- Instrumentation/Monitoring/Load Testing

PROFESSIONAL AFFILIATIONS

- Post-Tensioning Institute (PTI)

CONTACT

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EXPERIENCE

Since joining WJE, Timothy Gregor has specialized in the repair and rehabilitation of concrete structures and their waterproofing systems including prestressed, post-tensioned, and conventionally reinforced. He also has extensive experience in structural condition assessments, repair design, and construction observation services related to steel structures. In addition, Mr. Gregor has been involved in the on-site load testing of multiple structures.

Prior to joining WJE, Mr. Gregor studied the seismic application of bracing steel-framed structures with reinforced concrete masonry panels through experimental tests and computational system analyses as a doctoral student at the University of Illinois at Urbana-Champaign. He designed, oversaw construction of, instrumented, and tested large-scale specimens. Mr. Gregor used the experimental data to calibrate analytical models that evaluated the selection of seismic design parameters for a new structural system.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation

- U.S. Bank Garage - Milwaukee, WI: Structural analysis of existing conditions and of proposed repairs for a precast/prestressed parking garage structure that experienced movement due to adjacent construction; evaluation and repair of welded precast double-tee beam flange to flange connections
- 222 S. Riverside Plaza Redesign - Chicago, IL: Evaluation of structural deterioration, analysis of the original structural members for new landscaping, and repair designs for a composite steel frame plaza over active AMTRAK rail lines
- Grocery Store - Chicago, IL: Evaluation and repair of the buried hot-applied waterproofing membrane under the parking deck; repair of the precast connections of a one-story precast concrete structure

Concrete Structures

- Advocate Lutheran General Garage - Park Ridge, IL: Condition assessment and repair of a three-story post-tensioned concrete parking garage.
- One Oakbrook Terrace - Oakbrook Terrace, IL: Condition assessment and repair of a two-story post-tensioned concrete parking garage.
- Mariner's Cove - South Haven, MI: Structural evaluation and underpinning design for a three-story condominium building, repair of roof trusses, and replacement of slab-on-grade with structural slab.
- Trustmark Insurance Company Garage - Lake Forest, IL: Condition assessment and repair of entrance plaza, precast/prestressed parking garage, and building snow retention system
- City Center - Oshkosh, WI: Condition assessment and repair of a three-story structure composed of precast and conventionally reinforced elements with 430,000 square feet of parking above occupied space

Steel Structures

- ASARCO Processing Facility Roof Truss Repairs - Design and oversight of structural steel repairs to repair damage caused by excessive differential settlement
- Baxter Headquarters Parking Garages - Deerfield, IL: Condition assessment, structural evaluation, and repair of steel framed and precast/prestressed parking garages
- Chase Tower Storefront Replacement - Evaluation and repair of deterioration of the steel framing supporting the fifty-foot-tall storefront around the perimeter of the building

Instrumentation/Monitoring/Load Testing

- Chicago Public Schools - Chicago, IL: Initial condition assessment of reinforced concrete structures built in the 1920s prior to load testing, analysis of existing members for deficiencies, monitoring of structural members during loading and unloading, and post-loading evaluation of the structure