

Timothy A. Gregor | Associate II



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
- Wood Structures
- Instrumentation/Monitoring/Load Testing

CONTACT

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EXPERIENCE

Since joining WJE, Timothy Gregor has specialized in the repair and rehabilitation of concrete structures, including prestressed, post-tensioned, and conventionally reinforced. His experience also includes condition assessments, repair design, and construction observation services related to wood and steel structures. In addition, Mr. Gregor has been involved in the load testing of multiple structures.

Prior to joining WJE, Mr. Gregor studied the seismic application of bracing steel frame 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

- US 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
- 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
- Kennedy Avenue Bridge - Hammond, IN: Condition evaluation and repair design for six-lane reinforced concrete overpass above I-80
- Northshore Towers - Skokie, IL: Condition assessment of condominium tower balconies with concrete deterioration and steel corrosion
- 250 S. Wacker - Chicago, IL: Observation of repairs and improvements to a concrete garage structure

Concrete Structures

- Trustmark Insurance Company Garage - Lake Forest, IL: Condition assessment and repair of entrance plaza, precast/prestressed parking garage, and building snow retention system
- Residence - Crown Point, IN: Structural evaluation, repair, and design of underpinning of a residential house on concrete footings
- 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
- Retaining Wall - Palatine, IL: Analysis of a collapsed conventional concrete masonry retaining wall and design of a replacement reinforced wall
- 400 E. Ohio - Chicago, IL: Condition assessment and structural evaluation of a six-story post-tensioned parking garage structure after a tendon failure

Steel Structures

- Pearl River Bridge Repairs - Jackson, MS: Oversight of contractors constructing scaffolding, sandblasting lead paint, and painting the underside of an interstate bridge
- Baxter Headquarters Parking Garages - Deerfield, IL: Condition assessment, structural evaluation, and repair of steel framed and precast/prestressed parking garages

Wood Structures

- Westgate Condominiums - Mount Prospect, IL: Condition assessment of condominium wood-framed balconies exhibiting extensive decay

Instrumentation/Monitoring/Load Testing

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