PERSONNEL QUALIFICATIONS

Brian Greve | Principal

EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 1998
  - Master of Science, Structural Engineering, 2000

PRACTICE AREAS

- Structural Evaluation
- Repair and Rehabilitation Design
- Failure Investigation
- Facade Assessment
- Load Testing
- Parking Structures
- Stadiums and Arenas

REGISTRATIONS

- Professional Engineer in IL
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- Structural Engineers Association of Illinois

TECHNICAL COMMITTEES

- ACI 437 - Strength Evaluation of Existing Structures
- ACI 440 - Fiber-Reinforced Polymer Reinforcement

CONTACT

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EXPERIENCE

Brian Greve is experienced in the investigation, analysis, evaluation, and repair of existing structures. His projects have involved buildings, stadiums, parking garages, bridges, and facades and have included conventionally reinforced concrete, post-tensioned concrete, steel, masonry, and wood structural systems.

Since joining WJE in 2000, Mr. Greve has participated in a wide variety of projects involving the evaluation of structures to assess conditions related to design deficiencies, construction issues, and deterioration resulting from environmental exposure. He also has experience in instrumentation of structures and has performed full-scale load tests of many structures to verify the capacity of deteriorated and strengthened members.

REPRESENTATIVE PROJECTS

Structural Evaluation

- Cedar Street Bridge Over the Illinois River - Peoria, IL: Evaluation of steel trusses
- Tunnel Under Clark Street - Chicago, IL: Evaluation of structural steel and concrete deterioration
- Great American Ballpark - Cincinnati, OH: Review design and construction claims
- Building Plaza Deck - Huntington, WV: Assessment of steel framing deterioration
- Chase Tower Chiller Replacement - Chicago, IL: Evaluation of existing floor structure to support new loading
- Lurie Children's Hospital - Chicago, IL: Pre and post-construction condition assessment surveys; vibration monitoring, and analysis

Repair and Rehabilitation Design

- Ochsner Hospital - New Orleans, LA: Structural rehabilitation of foundation
- Chicago Public Schools - IL: Investigation and repair design for heavy timber roof trusses
- Chase Tower - Chicago, IL: Assessment, analysis, and repair design for steel framing of monumental storefront structure
- Grandin House - Cincinnati, OH: Repair of corrosion-damaged post-tensioned slab
- Guaranteed Rate Field - Chicago, IL: Investigation and repair design for multiple capital repair projects
- Chicago Public Schools - IL: Structural evaluation and design of fiber-reinforced polymer and steel reinforcement for twenty school structures
- Chase Tower - Chicago, IL: Assessment and repair design for steel cooling towers and house stage support system
- McKinsey & Co. - Chicago, IL: Steel floor analysis and structure modifications
- 222 S. Riverside Drive - Chicago, IL: Plaza structure evaluation and repair design

Failure Investigation

- Louis Nettelhorst Elementary School - Chicago, IL: Investigation of heavy timber roof truss failure
- Navy Pier - Chicago, IL: Inspection of precast double-tees following partial collapse of exhibition floor
- Chase Bank - Chicago, IL: Evaluation of steel structure following vehicle impact
- Vaulted Sidewalk - Chicago, IL: Failure investigation of steel framing for vaulted sidewalk

Facade Assessment

- Chase Tower - Chicago, IL: Assessment and repair design of granite facade
- Marina Towers - Chicago, IL: Assessment and repair of landmark facade
- 150 N. Wacker Drive - Chicago, IL: Assessment and repair of concrete shear walls
- River North Point - Chicago, IL: Facade assessment and repair design

Load Testing

- Perry's Victory and International Peace Memorial - Put-in-Bay, OH: Load testing of plaza deck
- Midway Airport Parking Garage - Chicago, IL: Load testing of parking structure
- Chicago Public Schools - IL: Load testing of 1920s vintage reinforced concrete roof structures at twenty schools
- Arizona Charlie's Parking Garage - Las Vegas, NV: Load testing of distressed double-tee beams