



EDUCATION

- Rose-Hulman Institute of Technology
 - Bachelor of Science, Civil Engineering, 2004
- University of Illinois at Urbana-Champaign
 - Master of Science, Civil Engineering, 2005

PRACTICE AREAS

- Computer-Aided Drafting
- Construction Observation and Inspection
- Facade Assessment
- Failure Investigation
- Fiber-Reinforced Polymer (FRP)
- Load Testing
- Stadiums and Arenas
- Structural Analysis/Computer Modeling

REGISTRATIONS

- Structural Engineer in IL
- ATC 20 Post Earthquake Evaluation Certification

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Illinois (SEAOI)

CONTACT

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EXPERIENCE

Noah Fehrenbacher joined WJE in 2006. His predominant areas of work include structural analysis, as well as inspection of reinforced concrete and fiber reinforced structures. In addition to inspection, his work with fiber-reinforced polymer (FRP) has included analysis and material and load testing. Mr. Fehrenbacher also has extensive experience with tent and membrane structures.

Mr. Fehrenbacher has been involved with evaluating local building codes throughout the country. He has analyzed concrete, steel, wood, glass, and membrane structures. Prior to joining WJE, Mr. Fehrenbacher worked for the Indiana Department of Transportation and MS Consultants, Inc. During this time, he was involved in surveying, material testing, computer-aided drafting, and bridge design.

REPRESENTATIVE PROJECTS

Construction Observation and Inspection

- 1401 South State Street - Chicago, IL: High-rise reinforced concrete residential tower
- Chicago Midway Airport - Chicago, IL: Reinforcement of existing parking garage structure using FRP

Facade Assessment

- Marina Towers: Chicago, IL: High-rise reinforced concrete residential tower
- 350 West Mart: Chicago, IL: High-rise reinforced concrete commercial tower

Failure Investigation

- Bridgeview Manufacturing Facilities - Bridgeview, IL: Investigation of wind damage to masonry and steel joist single-story structures

Load Testing

- Chicago Public Schools - Chicago, IL: Testing of reinforced concrete structures prior to FRP strengthening

Stadiums and Arenas

- U.S. Cellular Field - Chicago, IL: Construction observation and structural analysis
- Soldier Field - Chicago, IL: Inspection and construction observation
- Louisiana State University Tiger Stadium: Baton Rouge, LA: Investigation of construction claims
- Great American Ballpark - Cincinnati, OH: Materials testing

Structural Analysis/Computer Modeling

- UniverSoul Circus - Various Locations: Nonlinear analysis of tent membrane; analysis of bleachers for assembly occupancy
- Chase Tower - Chicago, IL: Analysis of existing structure for changes in loading and framing