



## PERSONNEL QUALIFICATIONS

# Steven R. Bruns | Associate Principal and Unit Manager



### SEDUCATION

- Purdue University
  - Bachelor of Science, Civil Engineering, 1984
  - Master of Science, Civil Engineering, 1985
- Indiana University, Kelley School of Business
  - Master of Business Administration, 1999

### PRACTICE AREAS

- Reinforced Concrete Structures
- Structural Analysis
- Failure Analysis
- Disaster Response
- Repair and Rehabilitation
- Prepurchase Surveys
- Litigation Consulting

### REGISTRATIONS

- Professional Engineer in IL and IN

### PROFESSIONAL AFFILIATIONS

- American Concrete Institute - Indiana Chapter, past president
- American Society of Civil Engineers
- International Concrete Repair Institute - Indiana Chapter, past president

### CONTACT

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### EXPERIENCE

Steven Bruns rejoined WJE in 2016 and has more than thirty years of experience in the evaluation and assessment of buildings, structures, and materials in the as-built environment. Mr. Bruns has provided project management and technical leadership for investigations and repair of concrete, steel, masonry, and wood structures. He has significant expertise in property condition assessments and due diligence surveys for capital planning purposes and real estate transactions. Mr. Bruns also has in-depth experience relating to national disaster response and is a structural specialist for Indiana Task Force 1, one of FEMA's twenty-eight nationwide urban search and rescue teams.

Mr. Bruns started his career with WJE as an intern at the Northbrook headquarters before working full-time in WJE's Princeton and Dallas offices. Before rejoining WJE, he spent twenty years working within the Indiana market and was responsible for starting and developing an investigative engineering group for one of the largest A/E firms in Indiana. During his tenure, this group grew to more than fifteen architects and engineers located in five states.

### REPRESENTATIVE PROJECTS

#### Reinforced Concrete Structures

- Ohio State University, CampusParc - Columbus: Condition assessment and fifty-year capital reserve study for thirteen parking garages \*
- Multiple Prison Complexes - Central OH: Condition assessment and capital reserve study \*
- Amtrak Northeast Corridor and Commuter Lines - Northeast US: Investigation of early deterioration of prestressed concrete railroad ties
- Port Columbus Airport Parking Garage - Columbus, OH: Condition assessment and repair recommendations for post-tensioned parking garage \*

\* Indicates with previous firms

### Structural Analysis

- Jefferson County Courthouse - Madison, IN: Fire damage assessment and repair design of historic courthouse \*
- Reagan High School - Houston, TX: Evaluation and repair design for failed concrete supports
- Allstate Regional Operations Center - Jackson, MS: Evaluation, repair design, and monitoring for reinforced columns subjected to later earth forces

### Failure Analysis

- Gary Roosevelt High School - Gary, IN: Collapse investigation of west wing \*
- Monticello Power Plant - Mt. Pleasant, TX: Collapse investigation of six-hundred-foot-tall concrete chimney with brick liner
- Hamilton County Salt Barn - Carmel, IN: Collapse investigation of timber trusses during erection \*

### Disaster Response

- Richmond Hills Explosion - Indianapolis, IN: Structural inspections of multiple homes following natural gas explosion \*
- Tornado Damage Investigations - Kokomo, Nappanee, and Indianapolis, IN: Investigation of damage due to tornados \*
- Hurricane Damage Assessments - NJ: Damage assessment for multiple hospitals following Superstorm Sandy \*
- Indiana Task Force 1: Deployment for search and rescue support during Hurricanes Rita, Ike, and Gustav \*

### Prepurchase Surveys

- San Melia Apartment Homes - Phoenix, AZ: Prepurchase condition assessment and five-year capital plan \*
- Forest Rim Apartments - Tualatin, OR: Prepurchase condition assessment and five-year capital plan \*

### Litigation Consulting

- Apartment Community - Lafayette, IN: Investigation of multimillion-dollar construction defect and design error claim \*
- National Presbyterian Church - Washington, D.C.: Investigation of reported earthquake facade damage claim \*