PERSONNEL QUALIFICATIONS

Jon Stricker | Associate III

EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 2016
  - Master of Science, Structural Engineering, 2017

PRACTICE AREAS

- Structural Analysis/ Computer Applications
- Structural Evaluation
- Repair and Rehabilitation Design
- Construction Observation and Troubleshooting
- Failure and Damage Investigation

CONTACT

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EXPERIENCE

Since joining WJE in 2017, Jon Stricker has been involved in the inspection, evaluation, and rehabilitation of steel, concrete, and wood structures. He has performed computer analyses to evaluate structures in their as-designed and as-built states. In addition to analyzing the effects of code-prescribed loads, Mr. Stricker also has performed analyses to take into account the effects of project-specific conditions that include out-of-tolerance geometry and excessive foundation settlements. His work also has included design and analysis of structural repairs. Additionally, Mr. Stricker has performed a number of field assessments of structural conditions, inspections of repairs to structures, construction observations, and failure damage investigations.

Prior to joining WJE, Mr. Stricker worked with several firms through a co-op program that alternated with university classes. This co-op experience included design work for new construction, inspection of structural repair and earthwork projects, and development of repair documents.

REPRESENTATIVE PROJECTS

Structural Analysis/Computer Applications

- ASARCO Electrowinning Tankhouse - Kearny, AZ: Processing facility foundation evaluation and repair design
- Munster Steel - Hammond, IN: Analysis of crane building structure to assess out-of-tolerance installation conditions and for realignment of crane equipment
- Blue Creek - Quincy, IL: Design of new bridging for plate-connected wood truss; multiple progressive failure conditions considered
- Flexible Plate Long-Span Arch - Hill City, SD: Determination of load capacity of existing structure; calculation of initial stresses using multistep loading and final stresses using nonlinear finite element analysis

Structural Evaluation

- Chicago Public Schools - IL: Load testing of 1920s vintage reinforced concrete roof structures at several schools
- Baxter Headquarters - Deerfield, IL: Various assessments, including garage structures and tensioned cable structure
- O'Hare Parking Garage - Chicago, IL: Site investigation of existing metal perimeter railings
- 222 S. Riverside - Chicago, IL: Inspection of concrete deterioration above active train tracks
- Load Testing of Facade Anchorages - Various Locations: In situ testing of newly installed facade anchorages using reaction beams and chain pulls

Repair and Rehabilitation Design

- Multiple Projects - Chicago, IL: Design of resistance piers and helical piles to stabilize existing foundations
- Marina Towers - Chicago, IL: Inspection of new storefront and existing structural members

Construction Observation and Troubleshooting

- Wallin Oaks School - Plainfield, IL: Construction observation during ground improvements, including lime stabilization, rammed aggregate piers, and installation of radon evacuation system

Failure and Damage Investigation

- Open Web Truss Collapse - Beloit, WI: Due diligence inspection related to damaged column resulting in a collapse of open web joist roof structure
- Bay Creek 4 - Quincy, IL: Investigation of remaining structure and collapsed trusses; determination of load requirement for new structure after snow load collapse of long-span wood plate-connected truss