

Jennifer A. Dimig | Senior Associate



EDUCATION

- Marquette University
 - Bachelor of Science, Civil Engineering, 1994
- University of Minnesota
 - Master of Science, Civil Engineering, 1996

PRACTICE AREAS

- Bridge Engineering
- Failure Investigation
- Peer Review
- Repair and Rehabilitation Design
- Structural Analysis/Computer Modeling
- Structural Evaluation

REGISTRATIONS

- Professional Engineer in IL
- Structural Engineer in IL and NE

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Structural Engineers Association of Nebraska (SEAON)

CONTACT

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EXPERIENCE

Jennifer Dimig is experienced in the investigation, analysis, evaluation, and repair of existing structures. Her projects have involved such structures as bridges, office and warehouse buildings, stadiums, and parking garages and have included conventionally reinforced concrete, post-tensioned concrete, steel, masonry, and wood structural systems.

Much of Ms. Dimig's work at WJE has consisted of the evaluation of structures to assess conditions related to design deficiencies, construction issues, and deterioration resulting from environmental factors. She has performed numerous computer analyses to model the behavior of existing structures. Ms. Dimig has also worked extensively in the analysis and load rating of steel truss bridges, including the evaluation of gusset plates. In addition, she has performed structural design reviews of new structures, analyzed bridge erection equipment, and conducted laboratory testing of industrial storage rack systems.

REPRESENTATIVE PROJECTS

Bridge Engineering

- Iowa Truss Bridges: Analysis, load rating, and gusset plate evaluation of three steel truss bridges
- Maumee River Crossing - Toledo, OH: Analysis of gantry crane system for bridge erection
- NB Route 291 Bridge - Liberty, MO: Analysis, load rating, and retrofit design of members and gusset plates for steel truss bridge
- Veterans Memorial Bridge - Sioux City, IA: Routine bridge inspection

Failure Investigation

- Four-Span Continuous Post-Tensioned Girder Pedestrian Bridge: Investigation of failure of post-tensioned concrete girder
- I-35W Bridge - Minneapolis, MN: On-site field investigation of collapse of steel truss bridge
- KCPL LaCygne Station Bridge - LaCygne, KS: Investigation and analysis of failure of steel structural plate arch bridge structure
- MidAmerican Energy - Council Bluffs, IA: Investigation and analysis of conveyor collapse

Peer Review

- Memorial Stadium, University of Nebraska-Lincoln: Structural analysis and peer review of multiple stadium expansions
- Midtown Crossing - Omaha, NE: Structural analysis and peer review of three eight-story post-tensioned concrete buildings

Repair and Rehabilitation Design

- Chicago Public Schools: Structural evaluation and design of fiber-reinforced polymer (FRP) reinforcements for multiple 1920's reinforced concrete school structures
- Lincoln Financial Group - Omaha, NE: Condition survey, design of repairs, and observation during installation of repairs for a reinforced concrete parking structure
- Memorial Stadium, University of Nebraska-Lincoln: Condition survey, design of repairs, and observation during installation of stadium concrete repairs, expansion joints, and waterproofing
- Ochsner Medical Center - New Orleans, LA: Structural rehabilitation of pile cap foundations

Structural Analysis/Computer Modeling

- US Airways Center - Phoenix, AZ: Structural analysis and reinforcement of long-span steel roof trusses

Structural Evaluation

- Illinois River Energy Silos - Rochelle, IL: Field investigation and analysis to evaluate distress in a reinforced concrete corn silo structure
- Kraft Foods - Aurora, IL: Field investigation and analysis to evaluate ponding instability on a steel joist roof structure
- Union Camp Corporation - Dover, OH: Field investigation and analysis to evaluate the floor load capacities of a three-story reinforced concrete building constructed in 1919