

### 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 Evaluation and Analysis

#### REGISTRATIONS

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

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- Structural Engineers Association of Nebraska

#### CONTACT

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#### EXPERIENCE

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

Ms. Dimig focuses on evaluating structures to assess conditions related to design deficiencies, construction issues, and deterioration resulting from environmental factors. She has performed computer analyses to model the behavior of existing structures. Ms. Dimig has applied her expertise 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

- Truss Bridges - IA: 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

##### 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 steel truss bridge collapse
- Kansas City Power and Company, 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

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

##### Repair and Rehabilitation Design

- Apartment Parking Garage - Schaumburg, IL: Foundation settlement investigation and underpinning repair of precast parking structure under construction
- Johnson Complex - Saint-Hyacinthe, QB: Design of foundation repairs for seven-story office building
- Chicago Public Schools - IL: Structural evaluation and design of steel and fiber-reinforced polymer strengthening for 1920s reinforced concrete school structures
- Lincoln Financial Group - Omaha, NE: Structural condition assessment and concrete and waterproofing repairs for multiple reinforced concrete parking structures
- University of Nebraska-Lincoln, Memorial Stadium: Structural condition assessment and concrete and waterproofing repairs for various areas of the 1920s stadium structure
- Ochsner Medical Center - New Orleans, LA: Structural rehabilitation of pile cap foundations

##### Structural Evaluation and Analysis

- Guaranteed Rate Field - Chicago, IL: Structural analysis and evaluation of steel-framed light towers for new signage
- ASARCO EW Building - Pinal County, AZ: Structural analysis and reinforcement of steel truss frames subjected to large settlements
- US Airways Center - Phoenix, AZ: Structural analysis and reinforcement of long-span steel roof trusses
- Illinois River Energy Silos - Rochelle: Field investigation and analysis to evaluate distress in a reinforced concrete silo structure
- Kraft Foods - Aurora, IL: Field investigation and analysis to evaluate ponding instability on a steel joist roof structure