



EDUCATION

- Illinois Institute of Technology
 - Bachelor of Science, Architectural Engineering, 2002
- University of Minnesota
 - Master of Science, Structural Engineering, 2004

PRACTICE AREAS

- Failure/Damage Investigations
- Stadium and Arenas
- Repair and Rehabilitation
- Structural Analysis
- Historic Preservation

REGISTRATIONS

- Professional Engineer in IL
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- Structural Engineers Association of Illinois (SEAOI)

CONTACT

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EXPERIENCE

Since joining WJE, Christine Freisinger has been involved in the investigation, evaluation and repair of a variety of structures, including stadiums, warehouses, parking garages, low-rise buildings, and high-rise buildings. Her projects have included documentation of the condition of existing structures, evaluation of structures under a variety of design and proposed loading conditions, and development of repair drawings. Ms. Freisinger's structural investigations have involved steel, timber, concrete and masonry structures. She has significant experience with structural analysis computer software programs.

While attending the University of Minnesota, Ms. Freisinger completed her master's thesis on the load rating and load testing of horizontally curved composite steel girder bridges. She designed and completed a truck load test on an in-service bridge in Duluth, Minnesota, to research the load ratings of horizontally curved bridges according to AASHTO.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Aquascape Roof Collapse - Saint Charles, IL: Investigation of built-up tapered steel girders supporting a green roof
- Cora Texas Sugar Warehouse - Cora, TX: Investigation of warehouse collapse associated with Hurricane Gustav
- Weyerhaeuser Warehouse Roof Collapse - Bowling Green, KY: Investigation of bottom-flange bracing of continuous steel girders
- Continental Refrigerated Services - University Park, IL: Investigation of storage rack failure

Stadium and Arenas

- Aloha Stadium - Honolulu, HI: Investigation of steel stadium for wind and seismic loads; Investigation of steel stadium for replacement of concourse decks
- Aloha Stadium - Honolulu, HI: Structural repair of curved pedestrian bridges
- Arizona Cardinals Stadium - Phoenix, AZ: Investigation of reinforcing steel quantities in construction of stadium

Repair and Rehabilitation

- Aon Center - Chicago, IL: Design of interior stairs and miscellaneous steel supports for a tenant build-out for several adjacent floors
- CNA Center - Chicago, IL: Repair and coating of roof framing to support house rig
- Lakeview Presbyterian Church - Chicago, IL: Strengthening and repair of timber trusses
- Prudential Plaza - Chicago, IL: Investigation of roof framing for new roof deck
- Prudential Plaza - Chicago, IL: Investigation of lobby framing for lobby renovation project, including a signature canopy

Structural Analysis

- Duke University - Durham, NC: Investigation of Guastavino vaulted ceiling system supported on stone ribs
- NBC Tower - Chicago, IL: Analysis of post-tensioned roof framing for house rig replacement
- Art Institute of Chicago - IL: Structural peer review for new museum wing
- Art Institute of Chicago, Ryerson Library - IL: Investigation of existing steel framing

Historic Preservation

- Gateway Arch - St. Louis, Missouri: Investigation of corrosion on stainless steel panels