



PERSONNEL QUALIFICATIONS

Mark R. Chauvin | Associate Principal and Unit Manager



EXPERIENCE

Mark Chauvin joined WJE in 1999 and has significant experience with forensic investigations of a wide variety of architectural and structural problems with buildings, facades, and bridges. His work has involved inspection, analysis, and repair of structural capacity issues, deterioration, distress, or failure of wood, concrete, masonry, steel, and post-tensioning systems, including multiple collapse investigations. Mr. Chauvin has also performed numerous investigations of performance problems related to EIFS and stucco claddings, brick masonry facades, and roofing and waterproofing systems.

In addition to his project work, Mr. Chauvin has conducted research to assess the effectiveness of several corrosion mitigation and rehabilitation alternatives on a chloride-contaminated reinforced concrete bridge in Minneapolis.

REPRESENTATIVE PROJECTS

Bridge Engineering

- Lowry Avenue Bridge - Minneapolis, MN: Instrumentation and monitoring of pier movement
- Martin Olav Sabo Pedestrian Bridge - Minneapolis, MN: Evaluation and repair of stay-cable failures
- Minnesota Bridge 02037W - Coon Rapids, MN: Inspection, repair, and corrosion monitoring of post-tensioned tendons
- Post-Tensioned Box Girder Bridges - MN: Inspection and assessment of tendon-grouting conditions and materials

Facade Assessment

- Federal Reserve Bank of Minneapolis - Minneapolis, MN: Investigation and repair of leakage and condensation issues
- Kilowatt Community Center - Granite Falls, MN: Investigation and repair of building envelope leakage
- Lincoln Borglum Visitor Center, Mount Rushmore - Keystone, SD: Inspection of granite facade distress
- The Falls at Riverplace - Minneapolis, MN: Investigation of building envelope leakage
- The Metropolitan Opera House - New York, NY: Inspection of travertine facade distress

Failure Investigation

- I-35W Bridge - Minneapolis, MN: Investigation of collapse
- Heritage Lutheran Church - Apple Valley, MN: Investigation of roof collapse
- Life Time Fitness - Savage, MN: Evaluation of precast-plank collapse
- Manufacturing Facility - Cedar Rapids, IA: Investigation of partial roof collapse
- Manufacturing Facility - Omaha, NE: Investigation of collapse
- Quality Time Lanes - Independence, KS: Investigation of roof collapse

Roofing and Waterproofing

- Academy of Holy Angels - Richfield, MN: Roof replacement design and construction observations
- Hennepin County Government Center - Minneapolis, MN: Investigation and repair of waterproofing and expansion joint issues
- Mortenson Construction - Minneapolis, MN: Roof replacement design and construction observations

Structural Evaluation

- Becker-Hanson Building - Pierre, SD: Inspection of corrosion damage and repair design
- Central MN Ethanol Co-op - Little Falls, MN: Evaluation of fire damage to concrete silo
- Cold Spring Brewery - Cold Spring, MN: Investigation of wall cracking and deflection distress at concrete digester
- Congregational United Church of Christ - Ladysmith, WI: Assessment of tornado damage
- St. Mary's University - Winona, MN: Evaluation of Sheffield tile floor structures
- The Union Depot - St. Paul, MN: Condition assessment of train deck structure and construction observations during repair
- U.S. Naval Facility - Quantico, VA: Investigation and repair of reinforced concrete digester

EDUCATION

- University of Minnesota
 - Bachelor of Civil Engineering, 1997
 - Master of Science, Structural Engineering, 1999

PRACTICE AREAS

- Bridge Engineering
- Facade Assessment
- Failure Investigation
- Fire Damage Investigation
- Leakage Investigation
- Roofing and Waterproofing
- Structural Evaluation
- Wind Damage Investigation

REGISTRATIONS

- NHI Course 130078 - Fracture Critical Inspection
- Professional Engineer in IA, KS, MN, ND, and NE
- PTI Certification for Level 1 Bonded PT - Field Installation

PROFESSIONAL AFFILIATIONS

- Post-Tensioning Institute (PTI)

CONTACT

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