



## PERSONNEL QUALIFICATIONS

### Elise M. Love | Senior Associate



#### EDUCATION

- Michigan Technological University
  - Bachelor of Science, Civil Engineering, 2007
  - Master of Science, Civil Engineering, 2009

#### PRACTICE AREAS

- Failure/Damage Investigations
- Building Enclosure Commissioning/Consulting/Testing
- Roofing and Waterproofing
- Prepurchase Surveys
- Litigation Consulting
- Masonry
- Bridges and Civil Infrastructure

#### REGISTRATIONS

- Professional Engineer in MI and OH
- NHI Course 130055 - Safety Inspection of In-Service Bridges

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Construction Specifications Institute (CSI) - Board Member, Metropolitan Detroit Chapter
- RCI, Inc.
- Structural Engineering Institute (SEI)

#### CONTACT

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#### EXPERIENCE

Elise Love joined WJE in 2009 and has since been involved in a diverse range of projects including the investigation, analysis, and repair of existing structures and the building enclosure. Ms. Love's project experience includes failure and damage assessments of existing wood, steel, aluminum, reinforced concrete, and concrete masonry structures; repair and rehabilitation design for existing wood, reinforced concrete, and concrete masonry structures. She also has expertise in building enclosure commissioning, consulting, and testing services; roofing and waterproofing assessment/repair design; condition and prepurchase assessments; peer reviews; water infiltration assessments; and weld inspections for open-web steel joists. Ms. Love also conducts assessments of in-situ concrete slab-on-ground cracking; performs construction period building monitoring; provides construction and design-related litigation consulting; and performs structural/safety inspection of bridges.

#### REPRESENTATIVE PROJECTS

##### Failure/Damage Investigations

- Indoor Practice Facility - Ypsilanti, MI: Assessment of air-supported structure (dome) collapse
- Lake Local Schools - Millbury, OH: Structural assessment of structural steel and masonry elements of storm-damaged structures
- Various Residential Structures - Dexter, MI: Assessment/repair design for structural tornado damage in wood-framed structures
- Pontiac Silverdome Stage - Pontiac, MI: Assessment of temporary aluminum stage roof structure collapse
- Stony Creek Apartments - Washington Township, MI: Assessment and repair design of fire-damaged wood trusses
- Career Technology Center - Monroe, MI: Cracking assessment in concrete slab-on-ground
- McKinley Taylor Properties - Taylor, MI: Structural condition assessment of corroded structural steel substructure in crawl spaces

##### Building Enclosure

##### Commissioning/Consulting/Testing

- Sparrow Headquarters - Lansing, MI: Peer review and building envelope consulting services

- Auto Owners Insurance Headquarters - Lansing, MI: Peer review, building enclosure testing, and construction period quality control services
- Toyota PD Building - Saline, MI: Peer review and roofing consulting services
- National Headquarters Building - Lansing, MI: Investigation of water infiltration at windows, curtain walls, and masonry walls

##### Roofing and Waterproofing

- Big Buck Brewery - Gaylord, MI: Metal roofing damage assessment
- University of Michigan - Ann Arbor, MI: Zinc roofing failure investigation and laboratory analysis
- Lakeview Middle School - Battle Creek, MI: Assessment of cause of single-ply roofing damage

##### Prepurchase Surveys

- 6435 Hix Road - Westland, MI: Prepurchase property condition assessment
- Walker Plants - Novi, MI: Assessment of architectural and structural building/property damage and tenant changes

##### Litigation Consulting

- Medical Facility - Grand Rapids, MI: Litigation consulting for construction and design-related building envelope issues
- Gratiot Shopping Center - Saginaw, MI: Litigation-related code consulting regarding structural repairs following partial roof collapse

##### Masonry

- East Hall - Ann Arbor, MI: Historic terra cotta and brick masonry assessment and restoration
- Hill Auditorium - Ann Arbor, MI: Historic terra cotta cornice and brick masonry restoration

##### Bridges and Civil Infrastructure

- Illinois Department of Transportation - Cook and Will Counties, IL: Safety inspection and member force analysis for steel bascule bridges
- US-34 Bridge over Missouri River - Mills County, IA/Sarpy County, NE: Initial safety inspection for concrete and steel bridge