

Heidi L. Mase | Senior Associate



EDUCATION

- University of Illinois at Urbana-Champaign
 - Bachelor of Science, Architectural Studies, 2006
 - Master of Architecture, Structures Option, 2008

PRACTICE AREAS

- Architectural Investigation
- Computer-Aided Design
- Construction Observation Services
- Repair and Rehabilitation Design
- Structural Analysis/Computer Modeling
- Roofing and Waterproofing
- Water Penetration Testing

REGISTRATIONS

- Architect in IL

PROFESSIONAL AFFILIATIONS

- Building Enclosure Council (BEC) - Chicago chapter
- International Institute of Building Enclosure Consultants (IIBEC)
- Structural Engineers Association of Illinois (SEAOI)

CONTACT

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EXPERIENCE

Heidi Mase has broad-based experience in architectural and structural services. Since joining WJE in 2009, Ms. Mase has participated in field investigations, structural analysis and design, computer modeling, repair document preparation, construction observation, and field testing on a number of different structure types ranging from historic wood-framed, masonry buildings to modern pre-cast structures. She is proficient in the use of AutoCAD, SAP2000, and Google SketchUp.

Prior to joining WJE, Ms. Mase worked in the structural engineering group at Skidmore, Owings, and Merrill, LLP (SOM) in Chicago, IL. While at SOM, she was involved with structural designs and participated in progressive collapse studies. While attending graduate school at the University of Illinois, Ms. Mase served as a teaching assistant for a concrete design course.

REPRESENTATIVE PROJECTS

Architectural Investigation

- Allstate Corporate Headquarters - Northbrook, IL: Condition survey of existing sealant joints
- 119 East Laurel - Lake Forest, IL: Inspection of displaced brick due to balcony repairs

Computer-Aided Design

- Iberdrola Renewables Hardscrabble Wind Farm - Little Falls, NY: Preparation of existing foundation drawings
- Pebble Creek Townhomes - Glenview, IL: Preparation of exterior repair drawings
- University of Chicago, New Hospital Pavilion - Chicago, IL: Preparation of drawings for tunnel opening in existing DECAM foundation wall
- Retail Franchise Building - Winnetka, IL: Preparation of repair drawings for retail building

Construction Observation Services

- Holy Name Cathedral - Chicago, IL: Comprehensive investigation, design, and construction-period services for a complex historic structure, including observation of roof framing repairs, concrete column pours, flashing installation, and EIFS installation
- Louis Pasteur Elementary School - Chicago, IL: Observation of parapet rebuild and lintel installation

Repair and Rehabilitation Design

- St. Hedwig Parish - Chicago, IL: Condition assessment, structural evaluation, and repair design for existing foundation and wood-framed floor structure

Structural Analysis/Computer Modeling

- St. Elizabeths West Campus - Washington, D.C.: Analysis of existing trusses using SAP 2000
- Holy Name Cathedral - Chicago, IL: Analysis of exterior masonry walls, design of steel bracing, and design of roof framing
- Milwaukee Federal Building - Milwaukee, WI: Design of netting protection system to address facade distress

Roofing and Waterproofing

- Butler Area School District - Butler, PA: Condition assessment, remedial designs, and construction period observation for several roof replacement projects
- Hotel Bollero - Palatine, IL: Condition assessment, design, and construction observation services for roof replacement work

Water Penetration Testing

- Lincoln Middle School - Schiller Park, IL: Field testing in conjunction with water leakage investigations