PERSONNEL QUALIFICATIONS

Ross J. Smith | Principal

EDUCATION

- University of Michigan
  - Bachelor of Science in Engineering, Civil and Environmental Engineering, 2000
  - Master of Science in Engineering, Civil (Structural) Engineering, 2001

PRACTICE AREAS

- Building Enclosure Consulting and Commissioning
- Structural Design
- Repair and Rehabilitation
- Failure/Damage Investigations
- Roofing and Waterproofing
- Litigation Consulting
- Facade Assessment
- Peer Review

REGISTRATIONS

- Certified Construction Documents Technologist
- LEED Accredited Professional, BD+C
- Professional Engineer in IN, KY, MI, and PA

CONTACT

rsmith@wje.com
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EXPERIENCE

Ross Smith is experienced in structural evaluation, building enclosure commissioning (BECx), unique failure investigations, repair design, and construction quality control. His work also includes structural and architectural failures related to water infiltration, fire, wind, snow, condensation, and material failures. Mr. Smith also specializes in full building condition surveys, coordinating multiple engineering disciplines for a comprehensive analysis and then assisting owners in developing and administering asset management systems. He is also experienced in new building design, sustainable construction, peer reviews, and litigation assistance.

REPRESENTATIVE PROJECTS

Building Enclosure Consulting and Commissioning

- University of Michigan, Metro Health Hospital - Wyoming: Comprehensive building enclosure assessment of roofing, windows, masonry, metal panels, and building structure
- Gordie Howe International Bridge, U.S. POE and Canadian POE Facilities: BECx services
- VA Outpatient Clinic - Wyoming, MI: Peer review and construction observation
- Sparrow Ionia Hospital - Ionia, MI: Peer review, construction observation, and performance testing
- Various Toyota Production Facilities - Midwest U.S.: Peer review and BECx

Structural Design

- University of Notre Dame, Hesburgh Library - South Bend, IN: Renovation structural peer review and shoring design
- University of Notre Dame, Joyce Athletic and Convocation Center - South Bend, IN: Code review and repair design for suspended catwalk in basketball arena
- Landfill Gas Reclamation Facilities - MI and PA: New design, structural rehabilitation, and retrofit for engine exhaust stack support

Repair and Rehabilitation

- Battle Creek City Hall - Battle Creek, MI: Terra cotta pediment inspection and restoration
- Salvation Army Adult Rehabilitation Center - Grand Rapids, MI: Full building recladding and window replacement
- Univ. of Michigan, Various Facilities - Ann Arbor: Facade investigation, testing, and repair design; parking ramp improvements
- McKay Tower - Grand Rapids, MI: Building assessment; terra cotta rehabilitation
- Multiple Urban High-Rises - Chicago, IL; St. Louis, MO; and Grand Rapids, MI: Investigation of thin stone granite, masonry, terra cotta, limestone, and metal/glass cladding systems
- Grand Rapids Public Museum, VAMC - MI: Roof and facade inspections, repairs, and recommissioning

Failure/Damage Investigations

- Fire, tornado/high wind, snow, and flood related building damage/collapse investigations; repair design drawings
- Municipal Water Main Collapse - Holland, MI: Investigation and litigation support for failure and building collapse
- Unique Failure Investigations: Floating wave attenuation system; channel induction furnace core failure; fabric structure; liquid nitrogen leakage

Roofing and Waterproofing

- Bankers Life Fieldhouse - Indianapolis, IN: Rappelling-assisted field investigation, repair drawings, and specifications
- Ludington Pumped Storage Facility - Ludington, MI: Roof plaza and concrete water stop investigation and repair design
- City of Grand Rapids - MI: Roofing inspection, asset rating, and budgeting of more than twenty city-owned and managed facilities

Litigation Consulting

- University of Michigan Football Stadium - Ann Arbor: Structure recoating construction claim support
- Library of Congress, NAVCC - Culpepper, VA: Architectural peer review, detail redesign, construction administration, and litigation documentation support

AWARDS

- Engineer of the Year, MSPE, Western Chapter, 2020
- Young Engineer of the Year, MSPE, Western Chapter, 2009
- Young Structural Engineer of the Year, SEAMi Western Michigan Chapter, 2009