



#### EDUCATION

- Lawrence Technological University
  - Bachelor of Science, Architecture, 2010
  - Bachelor of Science, Civil Engineering, 2010
  - Master of Civil Engineering, 2014

#### PRACTICE AREAS

- Repair and Rehabilitation Design
- Structural Evaluation
- Concrete Structures
- Failure/Damage Investigations
- Facade Inspections
- Water Leakage Assessment
- Testing and Instrumentation

#### REGISTRATIONS

- Professional Engineer in MI

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2007, Andrew Lobbestael has been involved with numerous projects related to structural engineering and architecture. His responsibilities include the investigation and analysis of existing and damaged structures, nondestructive evaluation of concrete, development of repair and rehabilitation documents, and construction observations. He has performed various structural analyses on steel, concrete, masonry, and wood.

Mr. Lobbestael has investigated several structural failures and has performed numerous water infiltration investigations. The water infiltration investigations have solved long-term water infiltration issues. Additionally, he has performed construction vibration monitoring and performed vibration-related damage assessments. Prior to joining WJE, Mr. Lobbestael performed construction materials testing.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- 411 West Lafayette - Detroit, MI: Waterproofing, post-tensioning, and traffic bearing membrane repairs (multiple years)
- Trotter House - Ann Arbor, MI: Repair design and construction document development for masonry repairs, wood window restoration, and facade cleaning
- Arbor Circle Apartments - Ypsilanti, MI: Assessment and repair design of wood framed balconies

##### Structural Evaluation

- Hoover Building - Ann Arbor, MI: Condition assessments, analysis, and repair design of historic wood trusses for World War I-era factory building
- Karas House Catering - Redford, MI: Bowstring truss failure investigation, analysis, and litigation support
- Materials Processing Warehouse - Riverview, MI: Roof collapse investigation, analysis, and litigation support
- Globe Building - Detroit, MI: Structural analysis of existing wood framing for new mechanical equipment loading
- Grayhaven Marina Village - Detroit, MI: Prepurchase condition survey of multiple wood-framed residential structures

##### Concrete Structures

- JSP South Building - Detroit MI: Condition assessment and design of repairs to 1940s-era concrete frame building
- Southfield Town Center - Southfield, MI: Condition assessment of multiple parking structures, repair design, and construction period inspections
- Beaumont Hospital Parking Structure - Grosse Pointe, MI: Construction period services during concrete and waterproofing repairs (multiple years)
- Pine Tower - Bay City, MI: Assessment of precast concrete columns and estimate of remaining service life

##### Failure/Damage Investigations

- Williams Natatorium - Bloomfield Hills, MI: Investigation and petrographic examination of deteriorated natural stone pool deck
- Best Textiles - Warren, MI: Assessment of reported structural damage at multiple residences caused by natural gas explosion
- Carlyle Place Apartments - Clinton Township, MI: Use of ground penetrating radar to assess extent of voiding beneath slab from water main break
- Lake Local Schools - Lake, OH: Assessment of structural damage at multiple buildings caused by tornado

##### Testing and Instrumentation

- GM Warren Technical Center - Warren, MI: Instrumentation and testing of components of steel rod-supported staircase to estimate in situ tension
- Temple Beth El - Bloomfield Hills, MI: Load-tested fall arrest anchorages
- 413 East Huron - Ann Arbor, MI: Remote monitoring of construction vibrations using engineering seismographs

##### PROFESSIONAL AFFILIATIONS

- American Concrete Institute - Greater Michigan Chapter
- International Concrete Repair Institute - Michigan Chapter, president