

### Heba Elsayed | Senior Associate



#### EDUCATION

- Lehigh University
  - Bachelor of Science, Civil Engineering, 2015
- Georgia Institute of Technology
  - Master of Science, Civil Engineering, 2016

#### PRACTICE AREAS

- Repair and Rehabilitation Design
- Failure/Damage Investigations
- Construction Administration
- Nondestructive Testing
- Parking Structures
- Structural Analysis/Computer Modeling
- Structural Investigation
- Historic Preservation
- Facade Assessment

#### REGISTRATIONS

- Professional Engineer in GA

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers

#### CONTACT

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#### EXPERIENCE

Heba Elsayed joined WJE in 2017 and has participated in various structural investigations, analyses, repair designs, and construction administration projects. Ms. Elsayed works on concrete, steel, and wood structures. Her experience also includes repair and rehabilitation of several historic masonry and stone structures.

Prior to joining WJE, Ms. Elsayed gained experience in construction services at a major construction management firm. She also participated in a three-year research project at Lehigh University, using computer analysis to optimize disaster repair scheduling in major cities after an earthquake incident.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- Gaines Hall - Atlanta, GA: Evaluation, analysis, and stabilization of historic masonry building after fire damage
- Lexington Home Brands Plant No. 1 - Lexington, NC: Evaluation and repair of historic masonry chimney after fire damage

##### Failure/Damage Investigations

- Assumption Church - Nashville, TN: Investigation and repair of historic church structure after tornado event
- Sounds Stadium - Nashville, TN: Post-tornado structural assessment
- Bella Luna Condominiums - Orange Beach, AL: Post-hurricane assessment of building envelope damage
- I-75 Northwest Corridor - Atlanta, GA: Investigation and repair of partially collapsed retaining wall panels
- Cooper Tire and Rubber Warehouse - Albany, GA: Field investigation, assessment, and rehabilitation of steel-framed warehouse after tornado damage; overseeing of masonry, steel, concrete, and roofing repairs during construction administration

##### Construction Administration

- Baggage Building - Nashville, TN: Assessment and rehabilitation of historic masonry structure and overseeing of limestone repairs
- I-75 Northwest Corridor - Atlanta, GA: Investigation and repair of partially collapsed retaining wall panels on northwest express lanes

#### Nondestructive Testing

- University of Georgia, Sanford Stadium Culvert - Athens: Investigation of 1,000-foot-long concrete culvert structure
- Bridgeport Old Highway 66 Bridge - Bridgeport, OK: Assessment of concrete substructure and foundation
- Home Depot - Holly Springs, GA: Investigation of partially collapsed retaining wall; evaluation of remaining structure

#### Parking Structures

- Georgia Institute of Technology Parking Decks - Atlanta: Evaluation, cost estimation, and development of repairs for five parking structures; construction services

#### Structural Analysis/Computer Modeling

- Miami Marine Stadium - FL: Large-scale evaluation of stadium using SAP3000 and RISA

#### Structural Investigation

- Atlantic Station Anchor Load Testing - Atlanta, GA: Load testing of facade anchorages used for signage
- Corbel Load Testing - Greenville, SC: Load testing of precast concrete steel corbels

#### Historic Preservation

- Martin Luther King, Jr. State Historic Site - Atlanta, GA: Building investigation and development of historic structures report
- Fulton County Courthouse - Atlanta, GA: Restoration of terra cotta facade
- Robert Toombs House - Washington, GA: Condition assessment of historic structure
- Auburn Antebellum Home - Natchez, MS: Condition assessment of historic structure

#### Facade Assessment

- McFadden Place Apartments - Pembroke, GA: Water leakage investigation of brick masonry facade
- @1377 Apartments - Atlanta, GA: Interior and exterior condition assessment; water investigation and repairs to stucco facade