

Megan M. McAlister | Associate III



EDUCATION

- University of Kansas
 - Bachelor of Science, Architectural Engineering, 2018
- University of Michigan
 - Master of Engineering, Structural Engineering, 2019

PRACTICE AREAS

- Repair and Rehabilitation
- Disaster Response
- Nondestructive Evaluation
- Concrete Structures
- Structural Analysis/Computer Applications
- Facade Failure and Leakage

REGISTRATION

- Professional (Civil) Engineer in MO
- Professional Engineer in WI
- Professional (Structural) Engineer in KS

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Institute of Steel Construction

CONTACT

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EXPERIENCE

Megan McAlister joined WJE in 2019 and has experience in condition assessments, repair and rehabilitation design, analysis of existing structures, and construction period services. Ms. McAlister has worked with various structural materials, including prestressed and post-tensioned concrete, steel, aluminum, masonry, and wood. Her project work has also involved nondestructive evaluation of reinforced concrete structures using sounding, ground penetrating radar (GPR), and ultrasonic pulse velocity (UPV) testing.

Prior to joining WJE, Ms. McAlister was a mechanical and structural intern at an engineering firm in Lawrence, Kansas. She also assisted with a NASA fellowship for the development of a tiny home for hurricane disaster relief. Working with fellow students, she constructed a life-size prototype and presented it before engineering industry leaders.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation

- Old Chicago Post Office - IL: Inspection, repair design, and construction period services for concrete and steel structures at plaza and track level
- The Corners of Brookfield - Brookfield, WI: Inspection, repair design, and construction period services for concrete structure and water management system
- Chicago Public Schools - IL: Initial condition assessment and construction period services for repairing and strengthening reinforced concrete structures built in the 1920s
- Chase Tower Elevator Shaft - Chicago IL: Evaluation of deterioration in fifty-seven-story elevator shafts
- Multiple Apartment and Condo Buildings - Chicago, IL: Structural analysis and design of underpinning systems to address foundation settlement in multistory structures

Disaster Response

- Multiple Apartment and Condo Buildings - Southern FL: Inspection of hurricane damage to windows and doors of more than thirty apartment buildings

Nondestructive Evaluation

- Salt Lake City International Airport - UT: UPV testing of a five-story, post-tensioned concrete parking structure
- Plainfield School District Buildings - Plainfield IL: Flatness/levelness testing of concrete slab-on-ground
- Chicago Public Schools - IL: GPR assessment of existing conventional steel reinforcement layout in various concrete members

Concrete Structures

- Trustmark Insurance Company - Lake Forest, IL: Construction period services for the repair of entrance plaza, precast/prestressed parking structure, and the building's snow retention system
- City Center - Oshkosh, WI: Construction period services of a three-story structure composed of precast and conventionally reinforced concrete framing with 430,000 square feet of parking above occupied space
- RiverCentre Ramp - St. Paul, MN: Condition assessment of an eight-level, one-way, post-tensioned parking structure