



## PERSONNEL QUALIFICATIONS

### Mark A. Churpek | Associate Principal



#### EDUCATION

- Ohio Northern University
  - Bachelor of Science, Civil Engineering, 2002
- University of Akron
  - Master of Science, Engineering, 2006

#### PRACTICE AREAS

- Failure/Damage Investigations
- Disaster Response
- Structural Analysis
- Wood Structures
- Parking Structures
- Facade Assessment
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in NY, OH, PA, and WV

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers, Forensic Engineering Division, Committee on Forensic Investigations
- International Concrete Repair Institute, Director - Northern Ohio Chapter
- Structural Engineers Association of Ohio, past president

#### CONTACT

mchurpek@wje.com  
216.642.2300  
www.wje.com

#### EXPERIENCE

Mark Churpek joined the Cleveland office of WJE in 2005 and is experienced in forensic engineering investigations, rehabilitation, and repair design of structural systems and facades. His past projects include investigations of structural failures, construction defects, fire damage, natural disasters, material failures, and deteriorated building conditions for historic and contemporary structures. Mr. Churpek's experience also includes condition assessments, prepurchase surveys, construction observations, and litigation consulting. He has examined and evaluated steel, concrete, wood, and masonry components of various types of residential, commercial, and industrial facilities. Mr. Churpek has also been involved with the design, evaluation, and certification of facade access and fall protection systems.

#### REPRESENTATIVE PROJECTS

##### Failure/Damage Investigations

- Lorain County Community College - Elyria, OH: Investigation of fire damage to an underground reinforced concrete tunnel system
- Ohio State University, Agricultural Research and Development Center - Wooster: Structural and building enclosure assessments following tornado damage
- Storage Warehouse - Mansfield, OH: Investigation of a partial floor collapse of a steel-framed warehouse structure
- Horseshoe Casino Parking Garage - Cleveland, OH: Investigation of partial collapse during construction
- Dorchester Village Apartments - Richmond Heights, OH; Investigation and repair design for fire damage to steel decking, steel joists, and concrete masonry unit walls
- Various Buildings, City of Dayton - OH: Assessment of structure and building enclosure of various buildings following EF-4 tornado
- Amega West Services - West Alexander, PA; Evaluation of building movement due to mining activities
- Semco Ceramics - Urichsville, OH: Investigation of partial collapse of one-hundred-year-old beehive kiln

##### Wood Structures

- Medina County Library - Lodi, OH: Investigation of modern heavy timber framing
- Single Family Homes - OH: Investigation and repair design consulting for movement-related distress for home builder
- 911th Airlift Wing - Pittsburgh, PA: Evaluation and repair design for 1950s built-up wood trusses with split-ring connectors
- Horace Mann Elementary School - Indiana, PA: Evaluation of 1909 timber roof structure
- St. Mary, Mother of the Redeemer Church - Norwalk, OH: Investigation and repair design for wood-supported plaster ceiling failure

##### Parking Structures

- Huntington Park Garage - Cleveland, OH: Investigation and repair consulting for precast concrete and waterproofing
- Park Lane Villas Parking Garage - Cleveland, OH: Water infiltration investigation
- Cornerstone Garage - Cincinnati, OH: Distress survey of precast double-tee flange-to-flange connections
- David L. Lawrence Convention Center - Pittsburgh, PA: Investigation and repair design of distressed prestressed concrete double-tees at loading dock
- Central Garage - Cleveland, OH: Assessment and repair recommendations for post-tensioned concrete garage

##### Facade Assessment

- Higbee Building - Cleveland, OH: Facade condition assessment and repair recommendations
- Ohio State University, Math Tower - Columbus: Investigation of brick masonry distress, design of temporary stabilization, and consulting during repairs
- Municipal Court Tower - Columbus, OH: Condition assessment of limestone facade
- St. Luke's Hospital - Cleveland, OH: Investigation and repair design for distress and bowing of multiwythe masonry wall