WJE

Suzanna Barna | Associate III

EDUCATION
- University of Florida
  - Bachelor of Science, Civil Engineering, 2021
  - Master of Engineering, Civil Engineering, Concentration in Structural Engineering, 2022

PRACTICE AREAS
- Nondestructive Evaluation
- Failure/Damage Investigations
- Concrete Structures
- Vibration Monitoring and Consulting
- Building Enclosure Consulting

PROFESSIONAL AFFILIATIONS
- American Concrete Institute (ACI)
- American Society of Civil Engineering (ASCE)

TECHNICAL COMMITTEES
- ASCE 11 - Structural Condition Assessment of Existing Buildings

CONTACT
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EXPERIENCE
Suzanna Barna possesses expertise in the investigation and problem solving of structural and building enclosure systems. Ms. Barna's diverse project experience encompasses residential buildings, parking structures, and industrial facilities. Her areas of expertise include assessment and repair of existing structures, nondestructive evaluation of concrete structures, failure investigations, and vibration monitoring services.

REPRESENTATIVE PROJECTS

Nondestructive Evaluation
- Austin City Lofts - TX: Nondestructive evaluation of reinforced concrete slabs using electromagnetic methods
- Link Logistics Warehouse - Miami, FL: Condition assessment and nondestructive evaluation of reinforced concrete slab-on-ground using electromagnetic methods
- Gateway West Apartments - Charlotte, NC: Nondestructive evaluation using electromagnetic methods to identify penetrations through wood stud framing
- Sailboat Cay Condominiums - North Miami Beach, FL: Nondestructive evaluation using electromagnetic methods to verify in-place reinforcement in concrete
- I-235 Bridge - Oklahoma City, OK: Nondestructive evaluation using electromagnetic methods and inspection openings to identify voids in post-tensioning ducts

Failure/Damage Investigations
- Three-Story Parking Garage - Jacksonville, FL: Forensic investigation following partial collapse
- Mid-Rise Condominium - Orlando, FL: Assessment of alleged hurricane damage to building fenestration
- Champlain Towers South - Surfside, FL: Forensic investigation following condominium partial collapse

Concrete Structures
- Department of Defense: Development of triage condition assessment program for concrete structures
- Mercy Hospital - Miami, FL: Condition assessment of two mid-rise reinforced concrete structures

- Schmidt Family Complex Parking Garage - Boca Raton, FL: Condition assessment and load testing of precast prestressed double-tees
- Veteran's Affairs Hospital - Miami, FL: Condition assessment of concrete structure and building facade
- Radius Parking Garage - Hollywood, FL: Assessment and analysis of post-tensioned parking structure and repair recommendations
- Below-Grade Parking Structure - Miami, FL: Condition assessment and remediation recommendations of hydrostatic slab

Vibration Monitoring and Consulting
- Floranada Elementary School - Fort Lauderdale, FL: Assessment and evaluation of vibrations from adjacent construction
- High-Rise Condominium - Surfside, FL Structural assessment and construction monitoring instrumentation including vibration and crack monitoring
- Ocean House Surfside - Surfside, FL: Structural assessment and construction monitoring instrumentation including vibration and crack monitoring
- Rivage - Bal Harbour, FL: Structural assessment and construction monitoring instrumentation including vibration and tilt monitoring
- High-Rise Condominium - Miami, FL: Vibration monitoring to monitor alleged impact of adjacent construction

Building Enclosure Consulting
- The Ritz-Carlton, Grand Cayman - Cayman Islands: Balcony and roof waterproofing investigation
- Bank of America - Fort Lauderdale, FL: Water testing to diagnose known leaks
- LEED Certified New Construction Projects: Development of building enclosure commissioning closeout reports for structures including academic, government, and high-end retail buildings

WJE | ENGINEERS ARCHITECTS MATERIALS SCIENTISTS