PERSONNEL QUALIFICATIONS



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-onground 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

