



#### EDUCATION

- University of Kentucky
  - Bachelor of Science, Civil Engineering, 2003
- University of Illinois at Urbana-Champaign
  - Master of Science, Structural Engineering, 2004

#### PRACTICE AREAS

- Repair and Rehabilitation Design
- Concrete Structures
- Steel Structures
- Parking Structures
- Plazas and Terraces
- Failure/Damage Investigations
- Construction Troubleshooting
- Structural Analysis/Computer Applications

#### REGISTRATIONS

- Professional Engineer in HI, ND, and WI
- Structural Engineer in IL and NE

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- Post-Tensioning Institute (PTI)
- Structural Engineers Association of Illinois (SEAOI)

#### TECHNICAL COMMITTEES

- PTI DC-60: Repair, Rehabilitation, and Strengthening Field Personnel Certification
- PTI DC-80: Repair, Rehabilitation, and Strengthening Committee, chair

#### EXPERIENCE

Tracy Naso specializes in the investigation and repair of reinforced concrete structures, including conventional, post-tensioned, prestressed, and antiquated systems. Her experience includes a wide variety of structures, including tunnels, parking structures, plazas, stadiums, pools, and high-rise towers. Ms. Naso also investigates failures and collapse due to storms, fire, extreme events, and structural deficiency. She is experienced with available methods of nondestructive testing and sampling to establish properties of existing structures and has developed expertise in the selection of strengthening, repair, and waterproofing methods and materials. Ms. Naso designs structural repairs for the remediation and strengthening of new and existing structures, develops construction documents, and provides construction period observation and administration services for the implementation of repair designs.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- Olympia Centre - Chicago, IL: Development of nonlinear inelastic analysis computer model to determine structural behavior and structural repair design to address shear failure of multiple transfer girders in a sixty-four-story reinforced concrete structure
- 400 East Randolph - Chicago, IL: Repair and renovation of reinforced concrete pool and geodesic glass and metal dome structures
- Warehouse Conversion - Chicago, IL: Evaluation of existing historic masonry and concrete structure for reuse for offices and the addition of new floor
- Northwestern University Utility Tunnels - Evanston, IL: Condition assessment and restoration program for one-hundred year old tunnel system

##### Concrete Structures

- International Airport - FL: Condition assessment and repair of elevated concrete guideway for Automated People Mover system
- University of Nebraska, Memorial Stadium - Lincoln, NE: Condition assessment and repair for ongoing stadium rehabilitation work

##### Parking Structures

- Hospital Parking Garage - Hoffman Estates, IL: Assessment of structural cracking, investigation of failure of structural connectors and sealants, and evaluation of deficient materials in ten-year-old precast/prestressed concrete parking structure
- Baxter Healthcare - Deerfield, IL: Annual assessment and repair of steel-framed parking structures
- Corporate Headquarters - Milwaukee, WI: Condition assessment and repair of post-tensioned concrete parking structure, modification of structure for new exit, and comprehensive review of wayfinding system
- Intrust Bank Parking Garage - Wichita, KS: Condition assessment and repair of post-tensioned concrete parking structure

##### Plazas and Terraces

- Residential High-Rise - Milwaukee, WI: Investigation of structural deterioration and extensive leakage in recently repaired plaza; repair design; and litigation support

##### Failure/Damage Investigations

- Optima Horizons - Evanston, IL: Assessment and strengthening of reinforced concrete floors exhibiting excessive deflection, cracking, and punching shear distress
- Commercial Building - Chicago, IL: Determination of cause of failure of structural connections between precast structural member in three-year old building
- Grocery Store Roof Collapse - Brookfield, WI: Investigation of collapse and repair of steel truss roof
- Fire Damage to Commercial and Residential Buildings - Various Structures in WI and IL: Evaluation of damage caused by fire to unreinforced masonry structures and wood-framed residential structures

#### CONTACT

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