PERSONNEL QUALIFICATIONS

Stephen Foster | Associate Principal and Unit Manager

EDUCATION

- University of Texas at Austin
  - Bachelor of Science, Architectural Engineering, 2008
  - Master of Science, Architectural Engineering, 2010

PRACTICE AREAS

- Condition Assessment
- Repair and Rehabilitation
- Construction Observation Services
- Corrosion Protection
- Failures and Disasters
- Historic Preservation
- Litigation Consulting

REGISTRATIONS

- AMPP Certified Coatings Inspector
- NACE CP2 - Cathodic Protection Technician
- NACE Corrosion Technologist
- Professional Engineer in FL and TX
- Structural Engineer in AZ

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- Association for Materials Protection and Performance (AMPP)
- International Concrete Repair Institute (ICRI)

CONTACT

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EXPERIENCE

Since joining WJE in 2010, Stephen Foster has been involved in the evaluation, design, and rehabilitation of numerous engineering projects, including concrete, steel, wood, and masonry structures. He has performed assessments related to corrosion distress, design and construction deficiencies, foundation-related movement, and leakage distress. Mr. Foster is experienced with preparing construction documents and has performed construction administration work on several repair projects, including experience with numerous field testing and ASTM procedures. He also has experience and specialized training for assessment, specification, and quality assurance inspection of coating and cathodic protection systems.

Prior to joining WJE, Mr. Foster worked as a graduate research assistant investigating the optimization of bridge deck reinforcement for a research project sponsored by the Texas Department of Transportation. While at the University of Texas, he worked as a field engineer with a general contractor and as a structural designer with an architectural engineering firm.

REPRESENTATIVE PROJECTS

Condition Assessment

- Queen Isabella Causeway - South Padre Island, TX: Condition assessment and nondestructive evaluation of corrosion-induced distress and inspection of metalizing coatings
- Seabrook Station - Seabrook, NH: Condition assessment of cracking in equipment vault
- Turning Basin Terminal - Port of Houston, TX: Condition assessment and nondestructive evaluation of concrete docks

Repair and Rehabilitation

- Palo Verde Water Reclamation Facility - Tonopah, AZ: Design of repair and rebuild documents for comprehensive concrete repair and maintenance plan
- Waco Independent School District Administration Building - Waco, TX: Structural steel and coating repairs for exterior fire escape stair tower and catwalks
- Second Street Parking Garage - Austin, TX: Traffic coating repairs

Construction Observation Services

- U.S. 181 - Aransas Pass, TX: Quality control inspections and testing of cathodic protection installation
- Army Medical Hospital - Killeen, TX: Construction observations of concrete column repairs
- Navajo Generating Station - Page, AZ: Inspection of scaffold installations

Corrosion Protection

- Parking Garage - Houston, TX: Design and construction observation of thermal spray metalizing of chloride-induced corrosion
- Barbours Cut Terminal - La Porte, TX: Design and construction observation of cathodic protection jackets and thermal spray metalizing for piers
- Port of Entry Domestic Water Tank - Tornillo, Texas - Corrosion assessment and repair recommendations of glass-fused-to-steel domestic water tank

Failures and Disasters

- Organic Dairy Barn - Paul, ID: Investigation of steel roof truss failure
- Fertilizer Plant Explosion - West, TX: Assessment of various structures subject to blast wave
- Precast Plant - San Marcos, TX: Investigation of prestressing assembly failure

Historic Preservation

- Lee County Courthouse (ca. 1899) - Giddings, TX: Foundation stabilization and structural repairs
- Williamson County Courthouse (ca. 1911) - Georgetown, TX: Condition assessment and rehabilitation design of historic masonry
- Goliad County Courthouse (ca. 1894) - Goliad, TX: Condition assessment and rehabilitation design of water infiltration and structural distress

Litigation Consulting

- Water Treatment Plant - Cedar Park, TX: Condition assessment; repair design of concrete and coating systems to address leakage, corrosion, and various construction defects; construction observation services