



## PERSONNEL QUALIFICATIONS

### Casey R. Jones | Senior Associate



#### EDUCATION

- Purdue University
  - Bachelor of Science, Civil Engineering, 2013
- Texas A&M University
  - Master of Science, Civil Engineering, 2015

#### PRACTICE AREAS

- Bridges and Civil Infrastructure
- Concrete Structures
- Corrosion
- Repair and Rehabilitation
- Structural Analysis
- Instrumentation/Monitoring/Load Testing

#### REGISTRATIONS

- FAA Licensed Remote Pilot
- NACE Certified Cathodic Protection Technician
- NACE Certified Coating Inspector - Level 1 (with Bridge Specialty)
- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- Professional Engineer in AZ, NM, NV, and TX

#### PROFESSIONAL AFFILIATIONS

- Association for Materials Protection and Performance (formerly NACE International)

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2015, Casey Jones has performed assessments, evaluations, and rehabilitations of existing bridges, buildings, and other infrastructure. His projects include investigations and repair design of distressed concrete structures, corroded steel structures, and foundation settlement problems. Mr. Jones' experience also includes destructive and nondestructive field testing of structural systems.

Prior to joining WJE, Mr. Jones worked as a graduate research assistant investigating the use of several nondestructive evaluation (NDE) techniques to perform condition assessments of bridge post-tensioning and stay cable systems. In this research, he evaluated such NDE methods as ground penetrating radar, infrared thermography, ultrasonic tomography, and magnetic flux leakage.

#### REPRESENTATIVE PROJECTS

##### Bridges and Civil Infrastructure

- Austin Avenue Bridges - Georgetown, TX: Condition assessments of two steel girder bridges
- Mosaic Faustina Ammonia Plant Ship Dock - St. James, LA: Above-water inspection
- Port of Houston Wharves - TX: Structural assessment of multiple ship wharves
- SH 99 Overpass - Houston, TX: Investigation of prestressed concrete girder damaged during construction
- University Drive Bridge - Mesa, AZ: Material evaluation of cracking distress within concrete bridge deck

##### Concrete Structures

- CHI St. Luke's Health - The Woodlands, TX: Evaluation of distressed slabs
- Compressor Support Structure - Freeport, TX: Evaluation of potential voiding in concrete tabletop structure
- Orchards Inn Pool Structure - Sedona, AZ: Evaluation of pool foundation elements exhibiting settlement
- One Oakbrook Terrace - Oakbrook Terrace, IL: Development of shoring plan during concrete repairs
- Ship Mooring Structure - Port Arthur, TX: Evaluation of potential voiding in concrete structure

##### Corrosion

- Barbours Cut Wharf 5 - Houston, TX: Assessment, service life modelling, and development of repairs for ship wharf
- Tabletop Foundation - Enid, OK: Development of corrosion mitigation repairs
- Port of Houston Wharves - TX: Corrosion assessments of multiple ship wharves
- Sam Rayburn Dam Substation - Jasper, TX: Investigation of corrosion distress within foundation elements
- Various Bridges - Olive Branch, MS: Corrosion assessment of multiple bridge decks and superstructures

##### Repair and Rehabilitation

- Mustang Cat Facility - Houston, TX: Concrete tilt-up wall panel repairs incorporating cathodic protection
- U.S. Bank Parking Garage - Milwaukee, WI: Assessment of flange connections between precast double-tee elements
- Washington University Parking Garage - St. Louis, MO: Development of repair drawings and specifications

##### Structural Analysis

- 1801 Main Parking Garage - Houston, TX: Analysis of garage deck, superstructure, and vehicular barrier system
- Federal Reserve Bank - Phoenix, AZ: Analysis of existing roof structure for installation of photovoltaic solar panels
- Parc IV and V Condominiums - Houston, TX: Evaluation of existing steel support structures for rooftop cooling tower units

##### Instrumentation/Monitoring/Load Testing

- 1801 Main Parking Garage - Houston, TX: Instrumentation and load testing of garage deck to determine code compliance
- Capitol Tower Parking Garage - Houston, TX: Tension testing of prestressed vehicular barrier cables
- Edwards Elementary School - Chicago, IL: Instrumentation and load testing of roof structure
- Palo Verde Nuclear Generating Station - Tonopah, AZ: Load testing of precast deck anchors on cooling towers