



## PERSONNEL QUALIFICATIONS

### Craig E. Quadrato | Senior Associate



#### EDUCATION

- US Military Academy at West Point
  - Bachelor of Science, Civil Engineering, 1991
- University of Missouri
  - Master of Science, Engineering Management, 1995
- Stanford University
  - Master of Science, Structural Engineering, 2001
  - Master of Science, Construction Engineering Management, 2001
- University of Texas at Austin
  - Doctor of Philosophy, Structural Engineering, 2010

#### PRACTICE AREAS

- Concrete Structures
- Masonry
- Steel Structures
- Wood Structures
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in MO, TX

#### PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)
- Institute for Leadership in Capital Projects (I-LinCP)
- International Concrete Repair Institute (ICRI)
- Structural Stability Research Council (SSRC)

#### EXPERIENCE

Craig Quadrato brings more than twenty-eight years of experience as a civil/structural engineer in the areas of concrete structure assessment and repair design; analysis and design of wood, masonry, and steel structures, heavy civil and roadway design; and engineering education.

Prior to joining WJE, Dr. Quadrato served for more than twenty-five years as a United States Army Engineer Officer, serving his last six years as an Academy professor in the U.S. Military Academy's Department of Civil and Mechanical Engineering. He was deployed worldwide, supporting U.S. and coalition forces by designing and managing the construction of roads, forward operating bases, and support facilities. Dr. Quadrato also led U.S. Army engineering design and construction units engaged in numerous projects in the United States and served as a consultant for the U.S. Department of Defense's industrial base modernization program.

#### REPRESENTATIVE PROJECTS

##### Concrete Structures

- Robot Warehouse, Port San Antonio (PSA) - TX: Evaluation of existing concrete taxiway and overlay design for pre-engineered metal building foundation and roadway
- San Antonio Light Print Building - TX: Nondestructive evaluation and documentation of existing reinforcement
- Ripley's Believe It or Not! - San Antonio, TX: Concrete floor vibration study
- Haven for Hope Resource Center - San Antonio, TX: Distress documentation, member strength analysis, and subsurface water infiltration investigation
- Rivera Apartments Parking Garage - San Antonio, TX: Distress documentation and repair design for post-tensioned concrete beams
- Lee County Annex Building - Giddings, TX: Assessment of foundation and water infiltration remediation plans

##### Masonry

- San Antonio Water Systems - TX: Lateral load resisting system analysis and reinforcement repair design for water distribution facility

- PSA Pump House - San Antonio, TX: New pump house design for wet and foam fire suppression systems

##### Steel Structures

- PSA Hangars/Buildings 1610 and 1612 - San Antonio, TX: Main truss and secondary member analysis and strengthening design for wet and foam fire protection retrofit
- Nationwide Call Center - San Antonio - TX: Fall protection anchor certification
- Barracks and Office Structural Assessment - San Pedro de Copan, Honduras: Determination of strength and stability of office and living space for military forces\*
- Sharana Maintenance Facility - Paktyka Province, Afghanistan: Construction of 4,000-square-foot fabric-covered pre-engineered metal building\*

##### Wood Structures

- Residences at la Cantera - San Antonio, TX: Assessment and analysis for balcony truss plate connections
- Army Barracks Renovation - Tacoma, WA: Design and execution of the rehabilitation of thirty World War II-era barracks\*
- International Lodging Facility - Paktyka Province, Afghanistan: Design and construction of more than twenty living and office buildings\*

##### Litigation Consulting

- Rio Grande City High School - Rio Grande City, TX: Lateral load resisting system and cladding support
- Acelity Headquarters Building - San Antonio, TX: Foundation distress documentation, movement monitoring, and exterior perimeter drain design

*\*Projects performed while with the U.S. Army*

##### TECHNICAL COMMITTEES

- AISC - National Student Steel Bridge Competition Rules Committee, Member
- ASCE - University of Texas San Antonio Student Chapter, Practitioner Advisor
- Structural Stability Research Council QTask Group 02 - Beams, Chair

#### CONTACT

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