



PERSONNEL QUALIFICATIONS

Douglas L. Smith | Principal and Unit Manager



EDUCATION

- Texas A&M University
 - Bachelor of Science, Civil Engineering, 1983
 - Master of Science, Civil Engineering, 1985

PRACTICE AREAS

- Construction Materials
- Masonry
- Pavement Investigation
- Repair and Rehabilitation

REGISTRATIONS

- Professional Engineer in TX

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineering, past president - Dallas branch
- International Concrete Repair Institute, North Texas chapter - past president

CONTACT

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EXPERIENCE

Douglas Smith evaluates, investigates, and designs repairs for pavement systems, civil infrastructure, parking garages, building facades, and a wide variety of materials used in construction. He has particular expertise in solving materials problems related to performance, durability, and compatibility with other materials or systems. Mr. Smith works frequently with WJE's laboratories and has developed a number of test programs to assess construction materials. He is also the manager of WJE's Dallas operations.

Prior to joining WJE, Mr. Smith served as a vice president with 3D/International (3D/I), a program and construction management firm. He was also a materials engineer with Law Engineering and Environmental Services, Inc., and worked at Southwestern Laboratories, Inc., a geotechnical and construction materials testing firm. At his prior firms, Mr. Smith managed large construction programs, conducted many investigations on building structures, systems, and components, and developed considerable laboratory experience.

REPRESENTATIVE PROJECTS

Construction Materials

- Riverfront Thirteen-foot "Horseshoe" Concrete Tunnel - Dallas, TX: Assessed the condition of the 1,400-foot, thirteen-foot diameter, 1930s concrete tunnel for use in a redevelopment program
- Beltwood Reservoir - Dallas, TX: Investigation of cracking and other distress of ten-million-gallon concrete water storage tank
- Rowlett Sanitary Sewer Main - Rowlett, TX: Investigation of hydrogen sulfide corrosion of ductile iron pipe forced main and gravity system
- Corinth Street Viaduct - Dallas, TX: Investigation of fire-damaged concrete at historic 1930s bridge
- Whirlpool Distribution Center - Fort Worth, TX: Investigation of premature corrosion and failure of below-grade ductile iron pipe fire protection system
- Vernon Newsom Stadium - Mansfield, TX: investigated gypsum-based handrail anchorage system

Masonry

- River Bend Villas - Fort Worth, TX: Investigation of premature deterioration of clay brick masonry screen walls and building cladding
- Jones AT&T Stadium, Texas Tech University - Lubbock, TX: Investigation of cast stone exterior cladding
- Laredo Federal Courthouse - Laredo, TX: Investigation of limestone cladding distress
- Retail Center - Mansfield, TX: Investigation of adhered manufactured stone veneer system
- University of Texas at San Antonio, Downtown Campus - San Antonio, TX: Investigation of sandstone building cladding materials and anchorage

Pavement Investigation

- Cottonwood Valley - Irving, TX: Investigation of pavement distress and design of repairs and replacement for three-hundred-acre residential development
- Ford Motor Company Arizona Proving Ground - Yucca, AZ: Investigation of distress of asphalt pavement at twenty-six-acre vehicle dynamic testing area
- Retail Development - Frederick, MD: Assessment of pervious pavement
- Dr Pepper Star Center - Plano, TX: Investigation of post-construction movement of the two ice rinks at the facility

Repair and Rehabilitation

- Sulphur Springs High School - Sulphur Springs, TX: Investigation and repair design for floor slab and precast concrete double-tee beam distress
- West Texas Steam Electric Station - Monahans, TX: Repair design to address severe reinforcing steel corrosion and concrete deterioration of 25,000-square-foot concrete cooling tower basin
- The Montane - Dallas, TX: Investigation and design of repairs to the below-grade parking garage walls