



## **Mickey Parker, P.E.**

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## **Background**

Mr. Parker holds a B.S. degree in Civil Engineering and is a registered professional engineer in Tennessee, Texas, Arizona, and Florida.

His professional experience has focused on forensic evaluations of buildings, preparing structural engineering designs, providing roofing consultant services, and providing building envelope consulting services. Mr. Parker has broad experience in all aspects of contract negotiation, planning, design, and construction. He has been involved in projects including agricultural, single-family, multi-family, commercial, retail, medical, hospitality, assembly, industrial, emergency services, and military facilities. These projects have involved clients including, but not limited to public agencies, private companies, construction companies, and architectural firms. The projects ranged in size from small offices to a 947,000 square foot hospital with a budget of over \$650 million.

Mr. Parker's structural design experience includes wood (light frame and timber), light gage steel, structural steel, masonry, and reinforced steel. In a more traditional civil engineering role, Mickey designed multiple small, decentralized, waste water treatment facilities, prepared site plans for commercial developments and residential developments, designed storm water management systems, and prepared storm water pollution prevention plans. In the realm of building enclosures, Mickey has been the engineer of record on numerous reroofing projects for public entities, and he has provided building enclosure consulting services (including field performance testing) for projects in the private, public, medical, and military environments. Mr. Parker has also been tested and certified as both a Building Enclosure Commissioning Process Provider (BECxP) and a Commissioning Authority + Building Enclosure (CxA+BE). Many of the projects for which Mr. Parker provided Building Enclosure Commissioning received the LEED credit for enclosure commissioning.

When buildings were either damaged or were performing poorly, Mr. Parker performed field investigations on

buildings ranging from agricultural buildings, to 100+ year old municipal buildings, to new high rise hospitality buildings. The primary focus of many of these investigations was to determine the reason(s) that the building envelope was not performing as it was intended or the extent of damage to the building envelope related to a wide variety of causes. These projects involved in-depth understandings of building code compliance, construction defects, foundation movement, construction contractual disputes, structural failures, building envelope water intrusion, post-fire structural issues, vibration effects resulting from blasting, earthquakes, and construction equipment, storm and flood damage, hail damage, damage from high winds, vehicle impact to buildings, and plumbing leaks.

In addition to Mr. Parker's new construction design and building enclosure consulting experience, he also has extensive experience in the preparation of construction and bidding documents necessary for the restoration and/or rehabilitation of existing properties. These services also include providing construction administration services such as supervising bidding phase, reviewing bids, recommending a contractor, organizing regular project meetings, providing construction quality assurance observations & associated reports, and presiding of the project close-out. Mr. Parker has served as a roofing consultant for over 20 years and has extensive experience in shingle, metal, spray polyurethane foam, shake, slate, tile, built-up, and single-ply (EPDM, TPO, PVC) roofing systems.

## **Representative Design Engagements**

### **Structural Design Projects**

- Boys and Girls Club, Smyrna, Tennessee: This project included reinforced masonry, reinforced concrete, structural steel, and light gage steel.
- 440 Parkway Commercial Buildings, Nashville, Tennessee: This project included structural steel, open web steel joists, and reinforced masonry.
- Multiple rehabilitation projects of 60+ year old buildings for Commercial Industrial Real Estate Association in Nashville, Tennessee. The projects included the Edgehill Villages and the 2300 Charlotte Pike building.: These projects included masonry, open web steel joists, light wood framing, foundation restoration, reinforced concrete, and structural steel.
- North Campus Apartments, Murfreesboro, Tennessee: This project utilized light wood framing for a three (3) story apartment building over a reinforced concrete slab-on-grade foundation system.
- Word and Spirit Church, Mount Juliet, Tennessee: This project utilized insulated concrete forms.
- Williams Funeral Home Gazebo, Columbia, Tennessee: This project combined structural steel and heavy timber construction.
- Rainbow Pediatrics, Clarksville, Tennessee: This project included structural steel, open web steel joists, and reinforced concrete.
- Robertson County 911 Facility, Springfield, Tennessee: This project was a reinforced concrete structure designed to withstand a direct hit from an F-5 tornado.
- Expansion of the Cracker Barrel Training Facility, Lebanon, TN: This project included the use of structural steel and laminated timbers.
- First Commerce Bank, Lewisburg, Tennessee: This project included structural steel, open web steel joists, and reinforced concrete.
- Clubhouse for the Ashwood Cove Condominiums, Murfreesboro, Tennessee: This building utilized light wood framing and reinforced concrete.
- Designed numerous reinforced concrete foundation systems for pre-engineered metal buildings.

### **Civil Engineering Projects**

- The Design and Construction of 11 decentralized waste water treatment facilities in Rutherford County, Tennessee: These projects utilized septic tank effluent pumps, pressurized sewer mains, sand filtration, ultraviolet sterilization, and both spray and drip irrigation for the treated effluent.
- Franklin Printing, Murfreesboro, Tennessee: Constructing an addition to an existing building required the preparation of a new site plan.
- Elite Lawn and Landscape, Murfreesboro, Tennessee: A site plan was required for the development of a landscaping business.
- Storm Water Pollution Prevention Plans (SWPPP) for multiple waterfront residential developments near Smithville, Tennessee.

### **Building Envelope Projects**

- Carl R. Darnall Army Medical Center Replacement (USACE), Ft. Hood, Texas: This project included design review, field quality assurance observations, participation in numerous pre-construction conferences, whole building air leakage testing, infrared evaluation of newly installed roofing systems, water leakage testing of curtain wall, ribbon, and punched windows.
- Army Reserve Center (USACE), Denton, Texas: This project included design review, quality assurance observations, and whole building air leakage testing.
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- Fort Sam Houston METC Dormitories (USACE), San Antonio, Texas: This project included design review, quality assurance observations, and whole building air leakage testing.
- Renaissance Hotel, Dallas, Texas: This project included a design review for an addition to an iconic Dallas building.
- Ralph Carr Colorado Judicial Center, Denver, Colorado: This project included field performance testing of the 60+ foot diameter glass dome atop the entry rotunda.
- Forest Park Medical Center, Southlake, Texas: The field performance testing include whole building air-barrier testing.
- Ft. Carson Commissary (USACE), Colorado Springs, Colorado: The field performance testing include whole building air-barrier testing.
- United States Air Force Academy, Vandenberg Hall Renovations, Colorado Springs, Colorado: The field performance testing on this project included testing recently installed operable window units for water and air leakage.
- Numerous Schools in Williamson County Tennessee: These projects included the preparation of construction documents, selection of bidders, and construction administration related to the reroofing of occupied school buildings.
- 2400 Nueces, Austin, Texas: This project included multiple quality assurance site observations.
- Multiple Shelter In Place Evaluations for gas manufacturing and hazardous waste disposal facilities in Texas and New Mexico.
- High Security Building at Lackland Air Force Base, San Antonio, Texas: Evaluate the air leakage from a server facility before and after upgrades to sealants and mechanical units.
- Austin Public Library, Austin, Texas: A review of the design was performed.
- North Richland Hills City Hall, North Richland Hills, Texas: This project included design review and field quality assurance observations.

### **Rehabilitation Restoration Projects**

- Waters Edge Condominiums, Rockwall, Texas: This project included the preparation of remediation plans and construction administration for water related structural damages to multiple condominium buildings.

- Travis Oaks Condominiums, Austin, Texas: This project included the preparation of remediation plans and construction administration for new siding and structural repairs for balconies for a 42 building condominium complex.
- Lookout Ridge Apartments, Harker Heights, Texas: This project included the preparation of remediation plans for a 3-story apartment building that was damaged by fire.
- Grace Point Church, San Antonio, Texas: This project included the preparation of remediation plans for a fire damaged church.
- Ball Park Apartments, Austin, Texas: This project included the preparation of remediation plans for failed floor trusses in a 3 story apartment building.
- Flatts at Olmos, San Antonio, Texas: This project included the preparation of remediation plans for a 2-story apartment building that was damaged by a tornado.
- Bent Tree Apartments, Austin, Texas: This project included the preparation of remediation plans for a building that was struck by lightning.
- One Barton Place Condominiums, Austin, Texas: This project included the preparation of remediation plans and construction administration for related to the repairs of wood framed balconies for multiple buildings in this complex.
- Woods of Travis Country, Austin, Texas: This project included the preparation of remediation plans and construction administration for the rehabilitation of the street and parking pavement in this private neighborhood.

### **Construction Consultant**

- Matheson Tri-Gas, New Johnsonville, Tennessee: Construction consulting services were provided to the client in relation to the expansion of an existing specialty gas manufacturing facility.
- Highland Cove Condominiums, Smithville, Tennessee: Construction consulting services were provided to the client in relation to the construction of 11 3-story condominium buildings.

### **Field Performance Testing**

- ASTM E1105: Water penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform or Cyclic Air Pressure Difference
- ASTM E783: Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
- AAMA 501.2: Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems
- ASTM E779: Determining Air Leakage Rate by Fan Pressurization
- ASTM E1186: Air Leakage Site Detection in Building Envelopes and Air Barrier Systems
- ASTM E1827: Determining Airtightness of Buildings Using an Orifice Blower Door
- ASTM C1060: Thermographic Inspection of Insulation Installations in Envelope Cavities of Frame Buildings
- ASTM C1153: Location of Wet Insulation in Roofing Systems Using Infrared Imaging
- ASTM E2813: Building Enclosure Commissioning
- Electronic Leak Detection: The use of low and high voltage equipment to identify breaches in installed waterproofing, roofing, and coatings.

### **Education and Certifications**

- Civil Engineering, B.S.: Tennessee Technological University
- Registered Professional Engineer: Arizona, Florida, Tennessee, Texas
- Building Enclosure Commissioning Process Provider (BECxP)

- Commissioning Authority + Building Enclosure (CxA+BE)
- Certified Infrared Thermographer, Level 1