

MMSA

Michael M. Simpson & Associates, Inc.
Consulting Structural Engineers

MICHAEL M. SIMPSON, P.E.
President / CEO
Senior Structural Engineer / Manager
Michael M. Simpson & Associates, Inc. (MMSA, Inc.)

Years of Experience: 22

Education

B.S., Civil Engineering, 1982
North Carolina State University

Professional Registration

Registered Professional Engineer
Since 1987, GA; SC, FL, NJ, NC

Organizations

American Society of Civil Engineers
American Concrete Institute

Professional Experience:

Mr. Simpson has over 20 years experience as a structural engineer including highway bridges and pedestrian bridge design. His background includes schools, justice / institutional buildings, mid-rise office buildings, parking garages, bridges, research laboratories, and government office / laboratory facilities. As president/CEO, Mr. Simpson's duties and responsibilities include the supervision and execution of calculations, drawings, specifications and adherence to building codes. He also conducts shop drawing reviews, interdisciplinary / quality control coordination with other disciplines, and feasibility studies. Mr. Simpson has 100% ownership of MMSA. He has 100% control of both the operation and management of the firm. His project experience includes the following:

Relevant project experience includes:

BRIDGES

- SC 34 Bridge No. 6 over Great Pee Dee River Overflow, South Carolina DOT. Project manager for design of cast-in-place concrete bridge total span 540' utilizing prestress concrete girders made continuous for live load.
- Pelham Road Bridge over Interstate Route I-85, Greenville, County, South Carolina. This project involved the replacement of existing bridge with a two-span steel composite-slab structure supported by reinforced concrete pier and abutments. Mr. Simpson was responsible for review and coordination of the construction documents.
- Champion International Bridge, Roanoke Rapids, North Carolina. Project Structural Engineer for this project involving the design of a six-span, one-lane, prestressed concrete bridge over the Roanoke River. The superstructure consists of six, 100' span concrete prestressed AASHTO girders and composite slab decking using a continuous span design. The substructure is comprised of reinforced concrete caps supported by steel H-piles.

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- Tribble Mill Park Bridge Abutments, Atlanta, Georgia. Project Structural Engineer for the design of two pedestrian timber bridges and one two-lane AASHTO HS-20, timber bridge. The substructure consists of reinforced concrete piers and end abutments with wing walls.
- Tribble Mill Park Bridge Abutments, Atlanta, Georgia. Project Structural Engineer for the design of two pedestrian timber bridges. The substructure consists of reinforced concrete piers and end abutments with wing walls.

BUILDINGS:

- **Basic Combat Trainee Complex, Ft. Jackson, SC** (Estimated construction cost \$60 million) – Savannah Army COE.
Mr. Simpson is Project Structural Engineer/Manager for design of the 1200 soldier-training complex. The complex consists of five company headquarters, a battalion headquarters, central energy plant, and a dining facility. The structural system consisted of single and multi-level steel framed structures. The foundations consists of spread and continuous wall footings. Note: Anti-terrorism/Force Protection design is provided.
- **Barracks Complex FY-03, Ft. Benning, Ga.** (Estimated construction cost \$32 million).
Mr. Simpson is Project Structural Engineer/Manager for design of the new barracks complex. The complex consists of UEPH barracks, a battalion headquarters, and COF. The structural system consisted of single and multi-level steel framed structures. The foundations consist of spread and continuous wall footings. Note: Anti-terrorism/Force Protection design is provided.
- **Littlejohn Coliseum, Clemson University, Clemson, SC.**
Mr. Simpson is Project Structural Engineer/Manager for the coliseum renovation/addition design and construction. Estimated construction cost is \$15 million.
- **Clemson University Biotechnology & Biology Complex, Clemson, SC.** (Estimated construction cost \$27 million)
Mr. Simpson is Construction Administration Project Structural Engineer for this new college lab building construction.
- **Greenville County Courthouse Renovation and Addition, Greenville, SC.** (Estimated construction cost \$17.4 million).
Project Structural Engineer. The Judicial Wing building (new construction) was primarily a three-story structure with a basement. The structure primarily consisted of reinforced concrete frames, concrete shear walls, and spread footing foundations. The building basement level was used as a garage for passenger vehicle parking. Adjacent to the main courthouse building is a new one story precast beams and columns parking deck with a plan dimension of approximately 178' x 120'. The parking deck first level and basement level was designed for 231 parking spaces.
- **Hollings Cancer Center. Medical University of South Carolina, Charleston, South Carolina**
Mr. Simpson is Project Structural Manager for the new science research facility design and construction. Estimated construction cost \$25.0 million.
- **State of Georgia Archives and History Museum, Morrow, GA.**
Mr. Simpson is Structural Project Manager for the new four-story structural concrete frame building design and construction. Estimated construction cost is \$25 million.

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- **Wade Hampton High School, Greenville, SC.** (Estimated construction cost \$30 million)
Mr. Simpson is Project Structural Engineer/Manager for this multi-purpose new school construction.
- **Woodmont High School, Greenville, SC.** (Estimated construction cost \$30 million)
Mr. Simpson is Project Structural Engineer/Manager for this multi-purpose new school construction.
- **Math and Science Complex Phase II, Winthrop University, Rock Hill, SC**
Mr. Simpson worked with a structural team in developing a seismic code study/analysis that included recommendations and repair for the existing Sims math building at Winthrop College. The seismic upgrade was implemented in the construction documents. As Construction Administration Structural Engineer, his responsibilities included all construction shop drawing reviews for the seismic upgrade, and construction inspection, and quality control coordination. Estimated construction cost \$15.0 million.
- **Fine Arts Center, Greenville, SC.** (Estimated construction cost \$8 million).
Mr. Simpson is Project Structural Engineer/Manager for this multi-purpose new school construction.
- **New Greenville History Museum, Greenville, SC.**
Mr. Simpson is Project Structural Engineer for the new two-story structural steel frame building design and construction. Estimated construction cost is \$7 million.
- **New Greenville Main Library, Greenville, SC.**
Mr. Simpson is Project Structural Engineer for the new three-story concrete frame facility design and construction. Estimated construction cost \$17.8 million.
- **Old Mill Renovation / Restoration, Mt Holly, NC. (New Municipal Building for City of Mt. Holly, NC)**
Mr. Simpson was Project Structural Engineer/Manager for the seismic code study/analysis and seismic upgrade for the existing 1920's era 72,000 SF historical mill into a mixed use development for the city of Mt. Holly that includes: administrative offices for the city, Police headquarters, City council offices, & city maintenance building.
- **Williamsburg Federal Correctional Institute, Williamsburg, SC. (Estimated construction cost \$100 million)**
Mr. Simpson was the Structural Project Engineer for the new FBOP facility complex. The proposed construction consisted of new housing and special housing buildings, administration buildings, athletic facilities, ancillary structures, and firing range site.
- **Infectious Diseases Laboratory Centers for Disease Control, Atlanta, GA (Bldg. 17, Phases I and II) (Estimated construction cost \$40 million phase I and \$ 25 million phase II)**
Mr. Simpson was the Structural Project Engineer for this eight-story structure. The structural framing system consisted of concrete columns with pan and skip-joists framing system with concrete shear walls for lateral stability. The foundation consists for concrete drilled piers, and continuous perimeter foundation retaining walls. Additional construction consisted of concrete and wood pedestrian bridges and utility and pedestrian underground tunnels.
- **Bennettsville Federal Correctional Institute, Bennettsville, SC. (Estimated construction cost \$100 million).** Mr. Simpson was the Structural Project Engineer for the new FBOP facility complex. The proposed construction consisted of new housing and special housing buildings, administration buildings, athletic facilities, ancillary structures, and firing range site.

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- **Commercial Office Bldg 40,000 SF, Greenville, SC (Orchard Road Office Bldg).** (Estimated construction cost \$4 million). Mr. Simpson is Project Structural Engineer/Manager for this two-story design-build design and construction the coliseum renovation/addition design and construction
- **Infectious Diseases Laboratory Centers for Disease Control, Atlanta, GA. West Campus Infrastructure.** (Estimated construction cost \$15 million)
Mr. Simpson was the Structural Project Engineer for miscellaneous structures such as 30' detention structure, numerous site retaining walls, and underground tunnels.
- **US Army Criminal Investigation Laboratory, Ft. Gillem, GA.** (Estimated construction cost \$25 million). Mr. Simpson was Project Structural Engineer/Manager for design of the 90,000 square feet crime lab. The structural system consisted of single and multi-level steel framed structures with skylights. The foundations consisted of spread and continuous wall footings.
- **Commercial Office Bldg 50,000 SF, Greenville, SC. (Jervey Eye Clinic).** (Estimated construction cost \$5 million). Mr. Simpson is Project Structural Engineer/Manager for this two-story design-build design and construction the coliseum renovation/addition design and construction.
- **Clayton County Existing Courthouse Renovation, Jonesboro, GA.** (Estimated construction cost \$8 million). Mr. Simpson was Project Structural Engineer for this three-story construction renovation. The structural renovation consisted of adding new elevated-framed floors with foundations, and replacement of an existing skylight system with a new roof framing.
- **Clayton County Justice Complex, Jonesboro, GA.** (Estimated construction cost \$87 million)
Mr. Simpson was Project Structural Engineer for this four-level courthouse, jail, and housing complex. The structural system consisted on steel column and beam frames, steel vertical bracing, and concrete spread footings. The housing complex consisted of precast concrete and beam walls, hollow-core slabs, and columns. The foundation system consists of concrete spread footings and continuous wall footings.