

LICENSES

- Professional Engineer 60000 (Florida)
- Special Inspector 7003474 (Florida)
- Certified General Contractor CGC1529326 (Florida)
- Professional Engineer Georgia, Texas, South Carolina, Alabama

EDUCATION

- 1996 Bachelor of Science, Civil Engineering, University of Florida
- 1996 Masters of Science, Civil Engineering, (Materials), University of Florida
- PhD Civil and Environmental Engineering, December 2019, University of Alabama-Huntsville

AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)
- Member, Society of American Military Engineers (SAME)
- Member, Associated Builders and Contractors (ABC)
- Member, Florida Structural Engineering Association (FSEA)
- 2000-2014, 2019-2021 University of North Florida Adjunct Professor, College of Engineering

Experience Overview

Tamara Baker is a licensed structural engineer, general contractor, and threshold inspector with twenty-five years of experience in the engineering and construction industry. Her project experience includes engineering design, inspections, and field project management and construction in commercial, municipal, light industrial, residential, roofing, and marine engineering projects. She has also performed roofing, bridge, and building inspections for over a decade. Tamara is an expert in dealing with a unique variety of building materials from the 1920's to today's products. She specializes in knowing how to handle existing conditions and renovating existing buildings and roofs while dealing with older materials and products. She is a problem solver and out of the box thinker that is creative in coming up with solutions to making spaces and facilities more functional and user friendly.

Relevant Project Experience

Charlton County Courthouse Historic Rehabilitation and Expansion, Folkston, Georgia, Construction Manager, Lead Engineer

Design and construction services for the historic renovation of this 1923 county courthouse. Renovations included ADA access, new storage areas, renovated courtrooms, new office spaces and restroom facilities.

Ebenezer Baptist Church Roof Replacement, Atlanta, GA, Construction Manager, Engineer of Record

Design and construction services for this historic renovation of the 1929, 6,000 square-foot gothic-style brick church located within the Martin Luther King Jr. Historic District. Services provided included a roof replacement and mechanical upgrades, including the repair and retro commissioning of three existing air handling units (AHU) in the church.

530 Auburn Avenue Rehabilitation, Atlanta, GA, Construction Manager, Engineer of Record

Design and construction services for the rehabilitation of this 3,960 sf. historic 2-story, single-family home which stands 300 feet from Dr. King's birth home. BK is currently completing the restoration of the house to its post-1931 appearance. Work includes roof replacement with a historically correct pattern and material, repair and replacement of the paint of the original wood siding, repair and reconstruction of the front and rear porches, repair of the chimney and correction of groundwater intrusion.

Rehabilitation of 1334 Walnut Street, Jacksonville, FL, Construction Manager, Engineer of Record

Originally owned by American Bakeries and used as a cracker factory, 1334 Walnut Street had seen many uses, from factory to a church, before being purchased in 2005 as the new office for Baker Klein. Services included the design of new roof and beams, new walls, foundation changes, and the addition of multiple clerestory windows, ensuring the building was ready for occupancy in 2008. The renovations conformed to all guidelines from the Department of the Interior (DOI) in order for the building to be recognized as a historic structure. The renovation was a 2008 City of Jacksonville Historic Preservation Commission Award Winner.

Julius Guinyard Pool Improvements, City of Jacksonville, Special Inspector

This improvement to a historically significant pool in the City of Jacksonville, included structural improvements to the pool deck and surrounding structure, and an addition to the existing building. Improvements also included the repair of existing walls, foundations and roof members, a new exterior entrance and renovation of the East entrance, the addition of stairs and balustrades, and the addition of a new water feature. The Julius Guinyard pool was the first pool open to African Americans in Jacksonville, and as such is a historic landmark in the City.

Jessie Ball DuPont Center Threshold Inspections, Jacksonville, FL, Special Inspector

Structural Threshold Inspection services for the newly renovated Haydon Burns Library, a historic building located in downtown Jacksonville. This \$21 million renovation offers tenant space for nonprofit organizations as well as meeting space, conference space and reception halls for the public.

Duval County Unified Court House, Jacksonville, FL, Special Inspector

Structural Threshold Inspectors responsible for construction compliance of all structural elements of this 800,000 square foot building. Inspections were made around the clock for two years to maintain the City's construction schedule and to verify that all structural elements were in compliance with the contract documents.

MD Anderson Cancer Center, Baptist Health, Jacksonville, FL, Special Inspector

Threshold Inspection services for this 300,000+ sf. 11-story medical facility located in Jacksonville, FL.

Everbank Field/Daily's Place, Jacksonville City Council, Jacksonville, FL, Special Inspector

Threshold inspection services for the shoring system, Ischebeck Megashore, during the construction of the Jacksonville Jaguars Amphitheater and Flex Field, part of the \$90 million improvements at Everbank Field, home of the Jacksonville Jaguars. Baker provided multiple inspections throughout the construction.

Brewster Hospital Relocation and Renovation, City of Jacksonville, Jacksonville, FL, Special Inspector, Engineer of Record

Foundation design and structural inspections during relocation of this first African American historic hospital located in Jacksonville, FL.

NAVFAC Southeast Truck Offload Facility Canopy – Naval Station Mayport, FL

Tamara designed a new metal canopy structure on the flight line at Naval Station Mayport. This job required extensive safety plans and quality control due to its unique location adjacent to active aircraft, and also close cooperation with Naval Facilities Southeast in order to ensure all military requirements were met in a timely fashion. Tamara designed this structure, including the uplift and lateral loading analysis, in accordance with the Florida Building Code (FBC) 2007 and ASCE 7-05.

NAVFAC Southeast Truck Offload Facility Canopy, Naval Station Mayport, FL, Engineer of Record

Tamara was the engineer of record for the design of this new metal canopy structure on the flight line at Naval Station Mayport. This job required extensive safety plans and quality control due to its unique location adjacent to active aircraft, and close cooperation with Naval Facilities Southeast to ensure all military requirements were met in a timely fashion. Tamara designed the steel members for this structure, including the foundations and uplift and lateral loading analysis, in accordance with the Florida Building Code FBC 2007 and ASCE 7-05.

Bath House Renovation, Bldg. 268, Naval Station Mayport, Jacksonville, FL, Project Manager

Project management and construction, interior demolition and renovation of existing Bath House. Renovations included: demolition and construction of walls; new doors; painting; new floor coating; plumbing fixtures; and shower and toilet partitions.

Building 1012 Roof Replacement, Florida Air National Guard at Jacksonville International Airport, Project Manager

Project management for the installation of a new roof system at Building 1012 onboard the FANG station at Jacksonville International Airport. This project took place while the building was occupied and was completed on time and within budget.

Building 100 Cool Roof Replacement, Marine Corps Support Facility Blount Island, FL, Project Manager

Project Management of the design and installation of a new 23,000 square foot “cool roof” system. The system installed was a Uniflex elastomeric coating with polyester fabric embed, which will allow more sunlight to reflect back into the atmosphere, thereby helping to reduce temperatures inside the building. A two-coat system was installed to 50 mils and included an Energy Star rating. Work was performed while the building was occupied and in use, with minimal interruptions to the staff. Building 100 is located on an active Marine Corps facility, with very strict access and safety controls.

Semper Fi, Blount Island, Jacksonville, FL, Project Manager

Project Manager for this Construction project which was performed to improve drainage around buildings 369 and 811T located on Semper Fi Way at the Blount Island Command. Flooding had been observed around these buildings during heavy storm events. In order to improve the drainage from this area to meet the required 10 year storm events, the following improvements were necessary. Installation of a 42-inch RCP along Semper Fi Way. Replacement of the existing 15-inch RCP running under Semper Fi Way with a 24-inch RCP Installation of inlet and manhole structures to connect the new RCP. Replacement of paving. Special efforts were made to protect existing base infrastructure along path of the new work.

Tamara G. Baker, PE, SI, CGC, PhD

Structural Engineer, Special Inspector, General Contractor



Breaking Ground Contracting Green Roof, Jacksonville, FL

Remodeling an existing office, including the removal and replacement of the existing roof with a Green LEED Certified teaching roof with solar panels, and an extensive roof garden and walkway. The roof system consists of metal joists and a steel deck with lightweight concrete fill. Structural design consisted of raising CMU walls, a new structural roof system, new balcony and support of new solar panels and awnings.