

BAILEY LAKE PARK

Burleson, Texas



COMPLETION DATE

2017

CONSTRUCTION COST

\$1.3 million

SERVICES

Structural Engineering,
Civil Engineering

ARCHITECT

GSBS Architects

KEY PERSONNEL

Stuart Markussen, PE,
RPLS, LEED AP
Principal-in-Charge

Michael McLaren, PE, SE, ENV
SP, F. ASCE
Structural Project Manager

Brent E. Lewis, PE
Civil Project Manager

PROJECT DESCRIPTION

RLG Consulting Engineers provided Civil and Structural services for improvements to Bailey Lake Park, an 8-acre lake located north of W. Hidden Creek Parkway near Village Creek in Burleson, TX. The improvements included the construction of a new 1,500 sq. ft. pavilion and the addition of a 20-space parking area located off SE Gardens Blvd., north of W. Hidden Creek Parkway.

RLG's Civil team provided design services for a new 10-foot wide, 2,100 linear feet paved walking trail offering direct access to three sides of Bailey Lake. Amenities along the trail include lighting, connection to an existing paved and unpaved path, two lake landings, a floating fishing dock, and several picnic areas. Additional civil services included grading, culvert improvements, cut and fill modifications to meet current standards of FEMA floodplain studies, and to provide a no-rise certification. RLG also provided water, sanitary sewer services, and bank stabilization.

Our Structural team provided structural design services for the 28'-0" X 48'-6" pre-engineered open park pavilion. RLG's team of structural engineers designed the pavilion's bathrooms with reinforced concrete masonry walls in addition to a reinforced concrete raft foundation to support the superstructure.

A unique feature of the project is the reinforced concrete dock mooring/abutment, which connects to the park trail and allows people the ability to walk out onto the lake to fish.