

# LOQUAT BRIDGE DESIGN/BUILD

## TRANSPORTATION ENGINEERING

### PROJECT DESCRIPTION

This design/build project was performed by NFPS and Anderson Columbia. The project consisted of replacing the unsafe bridge on Loquat Way in Lake City. The existing bridge had been deemed unsafe by the Florida Department of Transportation (FDOT) and the road had been closed to traffic. Due to the bridge being rated as unsafe, the City was awarded a grant by FDOT for up to \$300,000 to replace the bridge with a box culvert. By using a box culvert instead of a new bridge structure, the City can maintain the entire street and relieve the bridge maintenance responsibilities of the FDOT.

SCOPE OF THE PROJECT: Demolish the existing bridge structure and replace with a 10-foot wide by 32-foot long box culvert; Repave Loquat Way, including tie-in to existing curb and gutter; Replace existing guardrail and extend to meet current FDOT specifications and standards; Relocation of All Utilities below the creek; Potable Water: removal of an abandoned 6-inch water line and directional drill and relocation of existing 12-inch water main; Sanitary Sewer: removal of 55 feet of the existing 8-inch sewer main (between two manholes) and replace with a new lift station; Natural Gas: the City relocated the existing 4-inch gas line. NFPS was responsible for all engineering design and permitting for this project, as well as construction inspection activities. Anderson Columbia Company was responsible for all construction activities.

**TOTAL CONTRACT FUNDING**  
(approximately)

**\$295,000**

### PERFORMANCE PERIOD

330 Calendar Days

#### DAYS 1-120

- SURVEYING
- DESIGN PLANS COMPLETION
- PERMITTING

#### DAYS 121-280

- REMOVE / DISPOSE OF EXISTING BRIDGE
- RELOCATE GAS, WATER & SEWAGE LINES
- INSTALL NEW SINGLE BARREL CONCRETE BOX CULVERT
- BACKFILL AROUND & COVER BOX CULVERT
- 6-INCH LIMROCK BASE & 12-INCH SUBGRADE

#### DAYS 281-330

- PROVIDE 1-1/2-INCH ASPHALT PAVEMENT
- CONSTRUCT GUARDRAIL
- SIGNS & PAVEMENT MARKINGS
- PERFORMANCE TURF & SOD

### CLIENT REFERENCE

City of Lake City  
205 N Marion Ave  
Lake City FL 32055

Wendell Johnson  
City Manager  
386-719-2373  
johnsonw@lcfcla.com

### PROJECT MANAGER

Gregory G Bailey, PE  
1450 SW State Road 47  
Lake City FL 32025  
386-752-4675  
gbailey@nfps.net

### SERVICES PROVIDED

- Roadway Design
- Drainage Design
- Environmental Permitting
- Signing & Pavement Marking
- Bid Preparation and Negotiation
- Post Design Services

