Meskel & Associates Engineering

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ENGINEERING, PLLC
GEOTECHNICAL ▼ CONSTRUCTION MATERIALS TESTING

Sharron Road Bridge over Greens Creek | Bridge No. 714046

Clay County, Florida

The existing Greens Creek Bridge is a single-lane structure with a wooden deck supported on 11-inch diameter timber piles. The project includes replacing this bridge with new 3-span concrete structure, approximately 96 feet long. The proposed bridge structure will be supported on 18- or 24-inch square, precast prestressed concrete driven piles.

Estimated Construction Cost: $2.5 Million
Design Completion Date: 2010
Client: England-Thims & Miller, Inc.
Contact: Mr. Robert Mizell, P.E.

MAE Project Responsibilities Included:

- Field explorations which included performing Standard Penetration Test (SPT) borings in the area of the proposed bridge end bents
- Laboratory testing program including laboratory classification testing and corrosion series testing of soil and water samples
- Engineering evaluations of the site and subsurface conditions including determining static pile capacities for the preferred foundation types following FDOT LRFD procedures using FBDeep version 2.02
- Preliminary recommendations were prepared for:
  - Static-pile capacities
  - Negative skin friction forces
  - Pile installation
  - Lateral load analysis
  - Test pile program

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