



I-95 Widening from Volusia-Flagler County Line to Palm Coast Parkway

This project included 11.5 miles of roadway and bridge widening from four to six lanes, drainage improvements, temporary sheet pile wall design and pavement evaluation for milling and resurfacing. Meskel & Associates Engineering staff provided geotechnical engineering and subsurface investigations for this project between 1999 and 2005.

Estimated Construction Cost: \$40 Million

Design Completion Date: 2005

Client: FDOT District 5

Contact: Kathy Gray, P. E.

Project Responsibilities Included:

- Planning and oversight of all field and laboratory work in accordance with the FDOT Soils and Foundations Handbook including Auger, SPT borings and muck delineation
- Analysis of temporary sheet pile design for construction MOT
- Settlement and slope stability analysis for bridge embankments
- MSE walls external analysis
- Evaluation of shallow and deep foundation systems including drilled shafts and driven piles
- Preparation of estimated ultimate bearing capacity (Davisson Capacity) curves for the proposed pile types including driven concrete and steel “H” piles
- Preparation of 30, 60, and 100% Roadway Soil Survey and Structure Reports

