



The Boggy Creek at Florida Mall Erosion Control Project consisted of approximately 4600 linear feet of canal which runs along the eastern and southern sides of the Florida Mall Property in central Orange County. Existing erosion control and bank stabilization measures along the length of the canal exhibited subsidence and general structural failure in multiple locations.

Included in the study was an evaluation of existing conditions and an assessment of alternative design solutions. It was required that the retrofit be implemented within existing county right-of-way. Several design alternatives were considered including:

- 1) Regrading the ditch to a milder slope and replacing bank and bed stabilization;
- 2) Piping the ditch either with double box culverts or with multiple flexible closed conduit pipes; and
- 3) Replacing the existing slope and bed stabilization with cable concrete (which was selected).

The assessment evaluated the alternatives based upon estimated cost of construction, permitability, water quality benefits, utility conflicts, aesthetics, and maintenance requirements.

Inwood's responsibilities for the project included engineering assessment, design, and documentation. Subconsultants for this project provided surveying and geotechnical services.

