

# TRAFFIC OPERATIONS DESIGN



- Signalization Design
- Street Lighting Design
- Conventional Lighting
- High Mast Lighting
- Underdeck Lighting
- Decorative Lighting
- Signing & Pavement Marking
- Guide Sign Design
- ITS Design
- Maintenance of Traffic (MOT)

## **D-1 SR 60A WIDENING**

The scope of this project included the preparation of construction plans involving improvements to US 17 extending from south of Bear Creek to SR 60 (Main Street) in Polk County. FTE was responsible for Traffic signal plans, lighting plans, traffic studies, analysis reports, design services for the preparation of Electrical Calculations, Luminaire Data, and Required Plan Details and Quantities for Underdeck Lighting, and post Design Services.

## **D-1 METRO PARKWAY WIDENING**

The project covered the roadway from Winkler Avenue to Martin Luther King, Jr. Blvd (SR 82) for a total length of 2.7 miles. The scope of this project covered the converting of two existing two-way facilities into one-way facilities. In addition, realignment of railroad tracks which run parallel with Evans Avenue. FTE performed the lighting design for this project.

## **D-1 US 41 & COCOPLUM BOULEVARD**

FTE prepared a signalization set for the intersection of US 41 & Cocoplum Boulevard.

## **BURNTSTORE LAKES LIGHTING DESIGN, CHARLOTTE COUNTY**

The scope of this project was to provide the Charlotte County staff with a set of decorative lighting design plans.

## **D-4 I-95 (SR 9) AT OKEECHOBEE BLVD.**

FTE prepared construction plans for the interchange reconstruction, signalization plans, lighting plans, and traffic control plans.

## **D-4 SR 5/US 1 FROM BEACH RD TO COUNTY LINE RD**

FTE is preparing signing and pavement marking analysis and plans.

## **D-6 SR 953/LEJEUNE ROAD FROM SE 11TH PLACE TO 74' NORTH OF SR 934/EAST 25TH STREET**

Design services for signing and pavement markings and signalization improvements along LeJeune Road.

## **MIAMI DADE COUNTY DESIGN SERVICES**

FTE provided services to Miami Dade County working with the county and with the FDOT. Some of the major projects include the intersection and signal design at the Opa-Locka Airport, the flashing-signals for 11 schools, and signal design at six (6) locations. The work involved roadway geometrics, signing pavement marking design, drainage, MOT, landscaping, signalization, bid document preparation and construction administration.

## **D-7 SR 595 (SEMINOLE BLVD.) AT 8TH AVENUE INTERSECTION DESIGN**

The Scope included replacing signal strain poles with mast arms and extending left turn lane lanes on SR 595. Maintenance of Traffic plans with detailed phasing to maintain pedestrian and vehicle traffic throughout the reconstruction.

## **D-7 SR 50A FROM EAST OF CORTEZ BLVD TO EAST OF N. MILDRED AVENUE**

FTE is providing signalization design services.

## **D-7 SR 580 FROM EAST OF ENTERPRISE ROAD TO EAST OF COUNTRYSIDE BLVD**

FTE is providing traffic design, signalization, and signing & pavement marking services.

## **SR 429 (WESTERN BELTWAY) LIGHTING DESIGN, FDOT TURNPIKE DISTRICT**

FTE prepared a lighting justification report to determine the need for highway lighting as part of the design project for a four-lane divided limited access toll road. FTE also performed benefit-cost ratio analysis to determine the ratio of the economic value of the expected nighttime accident reduction to the cost of providing lighting. FTE analyzed several different scenarios to decide which were the most cost effective for the subject corridor. Lighting was designed for the mainline, ramps, side streets, and underdecks.

