

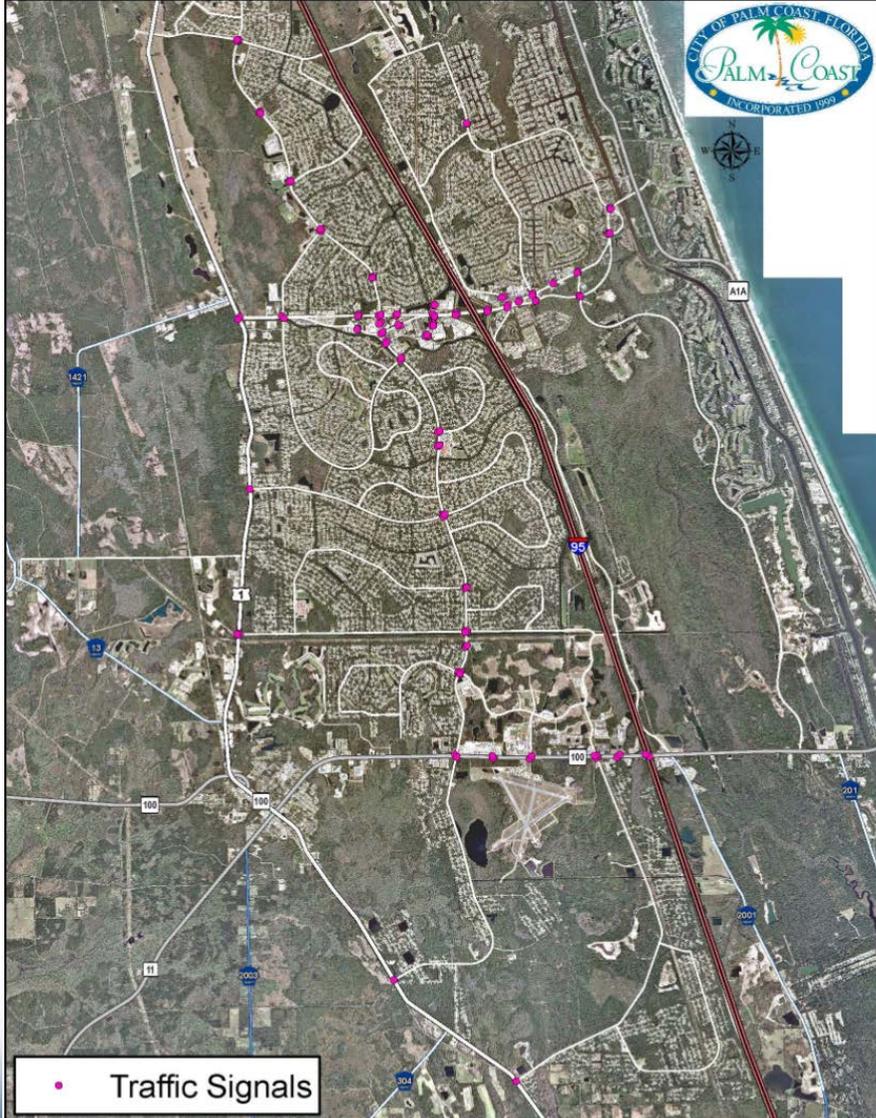
SIGNAL OPTIMIZATION STUDY



COMMUNITY DEVELOPMENT DEPARTMENT

Find Your Florida

PROJECT PURPOSE



- The purpose of this study is to improve signal operations to enhance traffic flow and safety within the City of Palm Coast
- The City currently owns and maintains 50 signals.

PROJECT BENEFITS

The benefits from this study include:

- Inventory of all traffic control equipment
- Knowledge of the different equipment/systems available to improve traffic flow
- Master planning the implementation of traffic signal improvements

PROJECT TASKS

The following tasks are associated with completing this study:

Tasks The City will Perform

1. Preparing an inventory and GIS Map of the current traffic signal equipment
2. Create an improvement plan for the implementation of new equipment/systems
3. Evaluate system effectiveness based on data from different municipalities

Tasks the Consultant will Perform

1. Assist the city in preparing forms for inventory use
2. Research the different types of traffic detection equipment
3. Create an improvement plan for the implementation of new equipment/systems
4. Evaluate system effectiveness based on data from different municipalities
5. Provide recommendations for a system that would best fit the cities current and future needs.



PROJECT CONSULTANT

- Request for Proposal (RFP) sent to consultants under the City of Palm Coasts Traffic Engineering Continuing Services Contract
- DRMP was chosen as the consultant, out of two submitting firms, to perform the study due to their strong qualifications and project experience
- DRMP will provide expertise and additional technical resources to the City of Palm Coast to prepare the Signal Optimization Study
- DRMP has performed the following projects within the City of Palm Coast:
 - Palm Coast Parkway Six-Laning project
 - Corporate Drive and Seminole Woods Blvd Pedestrian Signal and Crossing Improvements
 - Old Kings Road (North) Widening
- DRMP and the City will be working together on this project



PROJECT COSTS

- **Study Costs**
 - \$55,224 for the complete study to be performed by DRMP
 - \$22,776 saved by performing the inventory and GIS work in-house.
- **Amount Budgeted**
 - For FY 2015, \$530,000 was budgeted for the study

STREETS IMPROVEMENT FUND		FY 15	FY 16	FY 17	FY 18	FY 19
Prior Year Carry-over		4,986,249	1,783,667	1,899,513	1,361,563	1,848,043
Revenues						
Local Option Fuel Tax		1,620,000	1,620,000	1,620,000	1,620,000	1,620,000
Ad Valorem Taxes		-	-	-	-	-
Discretionary Surtax		-	-	-	-	-
State Revenue Sharing		707,500	721,700	736,100	750,800	765,800
Grants:						
PCP Six Lane Construction	54501	4,230,000	934,935	-	-	-
PCP Six Lane CEI & Compliance	54501	413,425	106,535	-	-	-
OKR Extension Phase 1	54502	6,289,495	600,000	-	-	-
OKR North Widening Design	54507	1,500,000	-	-	-	-
OKR North Widening ROW	54507	60,000	-	-	-	-
Matanzas Woods 4 Lane - Ph 2		-	-	-	1,903,000	-
SR 100 Medians	52003	200,000	-	-	-	-
County Held Impact Fees - Palm Harbor Extension		2,000,000	-	-	-	-
<i>Fines & Forfeitures</i>		850,000	750,000	650,000	550,000	450,000
Interest on Investments		2,493	892	950	681	924
Total Revenues		17,872,913	4,734,062	3,007,050	4,824,481	2,836,724
Total Available Funds		22,859,162	6,517,729	4,906,563	6,186,043	4,684,767
Expenditures						
<i>Operating Expenditures</i>		550,000	450,000	350,000	250,000	150,000
Projects						
Wetland Mitigation Engineering Study	59004	50,000	-	-	-	-
Street Resurfacing	54104	1,200,000	1,500,000	1,600,000	1,600,000	1,700,000
Royal Palms Shoulders Design	54404	-	-	-	-	-
Royal Palms Shoulders Construction	54404	1,330,000	-	-	-	-
Traffic Signals	54405	530,000	345,000	-	-	-
- replacement cabinets from accidents		45,000	45,000	45,000	45,000	45,000

Recommendation & Next Step

- **Recommendation**

- City Council to approve the \$55,224 Contract with DRMP to prepare a complete study

- **Next Step**

- Present findings and recommendations of the study to the City Council

