



SIGNAL OPTIMIZATION

PROJECT

COMMUNITY DEVELOPMENT
DEPARTMENT

Find Your Florida

Presentation Objective

To provide City Council with implementation costs for Phase 1 of the Signal Optimization Project and receive City Council approval.



Strategic Action Plan

- Objective 1.1: To enhance infrastructure in order to maintain quality neighborhoods and business districts
- Objective 1.2: To assess the need to expand infrastructure for sustainable growth
 - Strategy 1.2.2: Coordinate facility capacity upgrades to meet the City's growth needs appropriately
- Objective 5.2: Enhance safety measures throughout the community
 - Strategy 5.2.2: Continue to enhance safety improvements at intersections and along roadways



Proposed Plan

Safer and More Efficient

- MAXIMIZE CAPACITY of our roadways and make them SAFER

Advanced Traffic Management System (ATMS)

ATMS Benefits

Benefits provided by implementing ATMS*

- Travel Time Reductions: 8 - 35%
- Increase in Average Speed: 8 - 17%
- Fuel Consumption Reduction: 5 - 13%
- Emissions Reduction: 8 - 15%
- Stop Reduction: 11 - 75%
- Delay Reduction: 7 - 93%
- Crash Reduction: 28 - 31%

*Data Provided by the U.S. Department of Transportation



ATMS Components

- Fiber Optic Cable - FiberNet
- Closed Circuit Television Cameras (CCTV)- Traffic Control Cameras
- Traffic Controllers
- Vehicle Detectors
- Traffic Management Center (TMC)





Priority Corridors

FY 2016

- Palm Coast Pkwy – Florida Park Drive to Pine Cone Drive - (12)

FY 2017

- Belle Terre Pkwy – Pine Lake Pkwy to Palm Coast Pkwy (WB) - (5)
- Belle Terre Pkwy – East Hampton Blvd to Whiteview Pkwy - (4)
- SR 100 – Belle Terre Pkwy to I-95 – (6)
- Palm Coast Pkwy – Pine Lakes Pkwy to Corporate Drive & Clubhouse Drive to Palm Harbor Pkwy – (7)



Recommendations

Approve the following expenditures for Phase 1

- Purchase & installation of ATMS Software and Hardware components - \$90,700
- Fiber connection at 34 intersections - \$229,341.50
- Installation of CCTV cameras and communications switches at 12 intersections - \$40,436
- Creation of a small scale Traffic Management Center - \$67,579.35
- Acquiring Testing Equipment for traffic signal components - \$17,800
- Upgrading Pedestrian Signal Heads to Countdown Type at 9 intersections – \$6,116
- Contingency (10%) - \$45,197.29

Total Expenditures: \$497,170.14

Remaining FY 2016 Budget: \$515,000.00





Next Steps

- FY 2016: Implement initial Traffic Management System as approved by City Council
- FY 2017 – FY 2019: Incorporate future phases in 5 year CIP



Questions?

