

# Advanced Traffic Management System (ATMS) Status Report



MARTIN COUNTY  
FEBRUARY, 2009

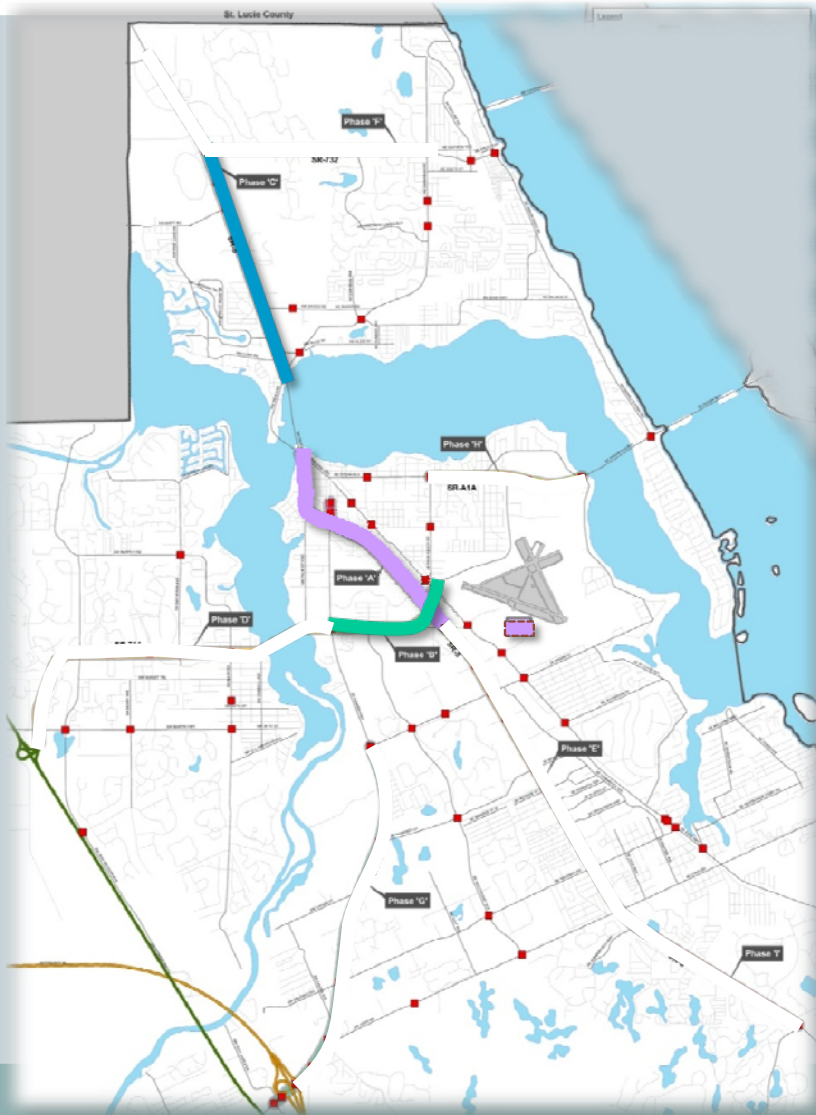


# Advanced Traffic Management System



- **What is an ATMS?**
  - A system of vehicle detectors, cameras, and communication systems used to monitor traffic, optimize signal timing, and improve flow of traffic.
- **How did we get here?**
  - MPO reprioritized \$2,015,000 in State funds through 2010.
  - Martin County B.O.C.C. funded master plan of ATMS.
  - June 30, 2008 Joint Participation Agreement between Martin County B.O.C.C. and FDOT to construct project.

# Advanced Traffic Management System



- Master plan identified nine phases on State arterials US-1, SR-714, SR-732, SR-76, A1A.
- Phasing was prioritized based on congestion and proximity to TMC.
- JPA has funding for phases A-C & equipment for Traffic Management Center (TMC).
- Initial phases on US-1 and SR-714 in City of Stuart
- Remaining phases currently unfunded.

# Advanced Traffic Management Center



- **Project Scope of Work**

- Traffic management center building (County funded)
- Computer / video hardware for traffic management center
- Central traffic management system software
- Fiber Optic Backbone
- Closed Circuit Television Cameras (CCTV)
- New traffic signal controllers & cabinets (where necessary)
- Video detection cameras in lieu of pavement loops
- Training for County Traffic Engineering personnel.

# Advanced Traffic Management System



- **Progress since JPA**

- Martin County Staff has completed a significant amount of preliminary engineering:
  - ✦ Extensive research with electronic vendors, contractors, fiber manufacturers, municipalities, and consultant firms.
  - ✦ Phase A conduit route design completed and permitted.
  - ✦ GPS mapping of existing conduit and pull boxes.
  - ✦ Permitting and inspection of Roosevelt Bridge by to utilize existing conduit.
  - ✦ Agreed to conceptual cost sharing methodology for fiber optic network with Martin County Information Technology.
  - ✦ Negotiation of central traffic management system software.
  - ✦ Submitted permits for TMC building.
  - ✦ Preparation of design-build bid package.
  - ✦ Phase B and C conduit route design in progress by ARCADIS.

# Advanced Traffic Management System



- **Evaluated several methods for ATMS procurement:**
  - ✦ Piggy back other municipalities annual contracts.
  - ✦ System Integrator / System Manager.
  - ✦ Traditional design-bid-build.
  - ✦ Design-Build.
- Limited staff availability for project management and desire for turn key system.
- Unlike road or bridge construction projects training and documentation are necessary for a successful ATMS project.
- Chose Design-Build procurement.
- Design-Build allows selection based on both technical merits and cost.
- Traffic signal controllers, video detection cameras, and cabinets will be procured separately to reduce mark up.

# Advanced Traffic Management Center



- **Schedule**

- March 2009 Design-Build award date.
- April 2009 installation of central traffic signal software.
- May 2009 begin construction of phase A.
- May 2011 completion of all funded phases.
- Evaluate system and seek continued funding for additional phases as necessary.



# Advanced Traffic Management System



Questions

