

# ENGINEERING SERVICES

## FY 15-16 ACCOMPLISHMENTS AND FY 16-17 GOALS

### Goals

#### **Engineering Services Goals FY 16-17**

- Coordinate and complete Capital Improvement Projects funded by Nassau County and the Florida Department of Transportation (FDOT).
  - Complete the resurfacing of Thomas Creek Road SCRAP Project.
  - Complete the resurfacing of Andrews Road SCRAP Project.
  - Complete the design and bid documents for the S. 14<sup>th</sup> Street resurfacing SCRAP project.
  - Complete design for the resurfacing and widening of Old Dixie Highway (CR115) from Bypass Road to Henry Smith Road in Callahan.
  - Complete the resurfacing project for Middle/Griffin Road from Colby Drive to CR 108.
  - Complete the design of improvements for the Crawford Road Reconstruction project from CR121 to US 301.
  - Acquire right of way to support construction of Crawford Road.
  - Complete environmental permitting for Crawford Road.
  - Complete coordination with Norfolk Southern for a Temporary Construction Easement (TCE) or Right of Entry (ROE) to build Crawford Road.
  - Complete the design of the Bailey & Simmons Road trail project.
  - Begin the design of the CR108 roadway safety improvements project.
  - Facilitate SCOP, SCRAP and TRIP agreements with FDOT for FY 16-17 and request new projects.
  - Prepare the CIP for engineering's 5 year Capital Improvement plan.
  - Begin Engineering design for Pages Dairy and Chester Road intersection project.
- Permit and request funding for the Thomas Creek Phase VIII restoration project.
- Issue permits and conduct inspections for driveways, sidewalks, right of way improvements, borrow pits, and residential development to ensure construction meets the requirements of County ordinances in a timely manner.
  - Inspect and bid the repair or replacement of approximately \$50,000 of substandard sidewalk and ADA ramps.
  - Review plans submitted to the Development Review Committee (DRC) for conformance with County ordinances in a timely manner.
  - Review applications to the building department in regards to legal access determinations for residences.
  - Perform Construction Engineering Inspection (CEI) services for DRC approved subdivisions or phases of subdivision projects. (i.e. Timber Lakes, Lumber Creek, Heron Isles, Blackrock Park, Amelia Concourse, Woodbridge, Plummer Creek, etc.)
  - Review and inspect approximately 500 driveway/sidewalk permits.
  - Review and inspect approximately 200 utility permits and approximately 25 borrow pit permits.
- Continue to provide Traffic Operations Services and Maintenance to ensure that motorists and pedestrians are traversing the safest and most efficient roadway network possible.
  - Provide maintenance to 28 traffic signals and 27 associated assemblies, flashers, etc.
  - Perform investigations in support of requests for roadway safety audits, changes in posted speed limits, special signage, golf cart designations, etc.
  - Continue to provide to FDOT coordination and support during construction to ensure that constructed signals and other features are compliant with requirements and the goals of the County.
  - Continue to expand the County's Integrated Traffic Signal (ITS) footprint and continue working with the FDOT and TPO to implement an Adaptive Traffic Control System for the second and third construction phases of SR200.

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- Improve server hosting and backup capabilities of the Automated Traffic Management System with a transition to a virtual server.
- Bridge Maintenance Plan.
  - Correct deficiencies at the CR115A Bridge over the Little St. Mary's River; as reported by the Florida Department of Transportation (FDOT).
  - Assist Road & Bridge in correcting the deficiencies at the Stratton Road Bridge, as reported by FDOT.
  - Continue to monitor the bridges determined by the FDOT to be scour critical or unknown foundations.
  - Continue to systematically address maintenance issues at the other 35 bridges in the County which are inspected biannually by FDOT. We will use FDOT's bridge maintenance contract for five bridges, to repair or replace piles at 5 bridges; and Road and Bridge will clear vegetation at five bridges.
- Provide engineering support services when feasible in support of other departments.
  - Debris management, damage assessment and other essential functions in relation the County's Emergency Management Plan.
  - Assist NAU in implementing Capital Improvement Projects.
  - Assist Solid Waste with Capital Improvement Projects.
  - Assist Solid Waste, Road and Bridge, and NAU with pond management contract.