

# ENGINEERING SERVICES

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

### Accomplishments

#### Engineering Services Accomplishments FY 15-16

- Coordinated and completed Capital Improvement Projects funded by Nassau County and the Florida Department of Transportation (FDOT).
  - Provided construction engineering and inspection (CEI) services to complete the Jasmine Street Drainage and Resurfacing Project which is funded by the FDOT and Nassau County. Completed CEI services in December 2015. Project was presented to the BOCC on February 8, 2016 for acceptance.
  - Completed the design and bid documents for the resurfacing of Old Dixie Highway (CR115) from Bypass Road to Henry Smith Road in Callahan. Complete – Project on hold at BOCC direction.
  - Completed the resurfacing project for Middle/Griffin Road from Colby Drive to CR 108.
  - Executed SCRAP agreement for the Andrews Road resurfacing project for \$704,000.
  - Executed SCRAP agreement for the Thomas Creek Road resurfacing project for \$924,000.
  - Continued the design of improvements for the Crawford Road Reconstruction project from CR121 to US 301. Design is at 50% we received direction from the BOCC on December 16, 2015 to continue working with Norfolk Southern Railroad prior to continuing design. BOCC directed us at the March 16, 2016 meeting to redesign the project with a 40 mph speed limit and out of Norfolk Southern right of way. Design currently at 90 percent.
  - Began to acquire right of way to support construction of Crawford Road. Finalizing the agreement with Rayonier/Terrapointe at this time. We will use the finalized agreement to create one to use for WestRock.
  - Complete the construction of Lime Street Drainage Project. Awarded bids on November 9, 2015 and held a preconstruction conference on December 18, 2015. Construction was complete in February 2016 and accepted by the BOCC in May, 2016.
  - Became LAP certified by FDOT on February 3<sup>rd</sup> for the Bailey and Simmons Road Trail project. Reviewed a draft FDOT agreement for consultant scope of work in March.
  - Facilitated SCOP, SCRAP and TRIP agreements with FDOT for FY 16 and requested new projects. We requested 6 projects (2 SCOP, 2 SCRAP, 2 CIGP) with a total construction value of \$21,552,500.
  - Applied on February 29<sup>th</sup> for five (5) FDOT Highway Safety Improvement Program off system funding grants for pedestrian safety improvements, audible edge line rumble strips, safety edge, enhanced signage and markings.
- REDI Community and Innovative Coast Share grant application approved by SJRWMD on February 9<sup>th</sup> and a grant agreement went before the Nassau County BOCC for signature and approval on April 20<sup>th</sup> for the Thomas Creek Phase VII Restoration project. The construction contract to Hayward Construction Group was awarded and approved by the Nassau County BOCC on April 20<sup>th</sup> for the Thomas Creek Phase VII Restoration project and began construction Sept. 6 2016.
- Issued permits and conducted 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.
  - Inspected and bid the repair or replacement of approximately \$50,000 of substandard sidewalk and ADA ramps.
  - Approved 39 plans/plats, submitted to the Development Review Committee (DRC) for conformance with County ordinances in a timely manner.
  - Reviewed 1,343 applications from the building department in regards to legal access determinations for residences.

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- Conducted Construction Engineering Inspection (CEI) services for approximately 15 DRC approved subdivisions or phases of subdivision projects. (i.e. Timber Lakes, Lumbercreek, Heron Isles, Blackrock Park, Amelia Concourse, Woodbrier, Woodbridge, Plummer Creek, etc.)
- Continued to provide Inspection Services for 16 subdivisions.
- Issued 697 driveway/sidewalk permits.
- Issued approximately 201 utility permits and approximately 40 borrow pit permits.
- Conducted investigations in support of requests for roadway safety audits, changes in posted speed limits, special signage, golf cart designations, traffic calming measures, etc.
- Golf Cart Roads within the Wilson Neck area were approved at the January 11<sup>th</sup> BOCC meeting. Twelve golf cart permits were issued to residents in February and March.
- Traffic Signals
  - Continued to provide Traffic Operations Services and Maintenance to ensure that motorists and pedestrians are traversing the safest and most efficient roadway network possible.
  - Provided maintenance to 28 traffic signals and 27 associated assemblies, flashers, etc.
  - Added traffic signal preemption wiring and programming to the traffic signals at A1A/TJ Courson and A1A/Lime Street at the request of the FCRR and FDOT.
  - Integrated a remotely located traffic signal at US1/CR108 in Hilliard into our Advanced Traffic Management System (ATMS).
  - Continued to provide FDOT with coordination and support during construction of SR 200 widening to ensure that constructed signals and other features are compliant with requirements and the goals of the County.
  - Continued 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 SR200.
- Bridge Maintenance Plan.
  - Corrected deficiencies at the CR115A Bridge over the Little St. Mary's River; as reported by the Florida Department of Transportation. (FDOT), and advertised for bids for the CR 115A Bridge over the Little St. Mary's River Repair project. Began construction September 2015.
  - Continued to monitor and follow plan of action for 2 bridges determined by the FDOT to be scour critical.
  - Finalized a plan to systematically address maintenance issues at the other 35 Bridges in the County which are inspected biannually by FDOT.
- Provided engineering support services when feasible in support of other departments.
  - Assisted with debris management, damage assessment and other essential functions in relation the County's Emergency Management Plan.
  - Continued to assist NAU in implementing the department's 10-year Capital Improvement plan.
  - Continued to assist NAU with updating the Asset Management Plan.
  - Assisted Solid Waste with Capital Improvement Projects.
  - Continued to assist Solid Waste and Road and Bridge with pond management.
  - Drafted revisions to Ordinance 99-17, Roadway and Drainage Standards that were sent to the County Attorney's office.