



LEAGUE OF CITIES

Engineering and Public Works

FY 2018 Programs and Services

David Ricks, P.E.

County Engineer

26 SEPTEMBER 2018

Department Overview

	Budget	Positions
Total Budget	\$52,226,110	440
Total Revenues	(\$13,417,475)	
Total Gas Tax	(\$27,394,000)	
Total Ad Valorem	\$15,414,635	368
Executive Office and Administrative Services Net Ad Valorem	\$2,054,140	19



DEPARTMENT OF ENGINEERING AND PUBLIC WORKS

September 24, 2018

COUNTY ENGINEER
David Ricks, P.E.

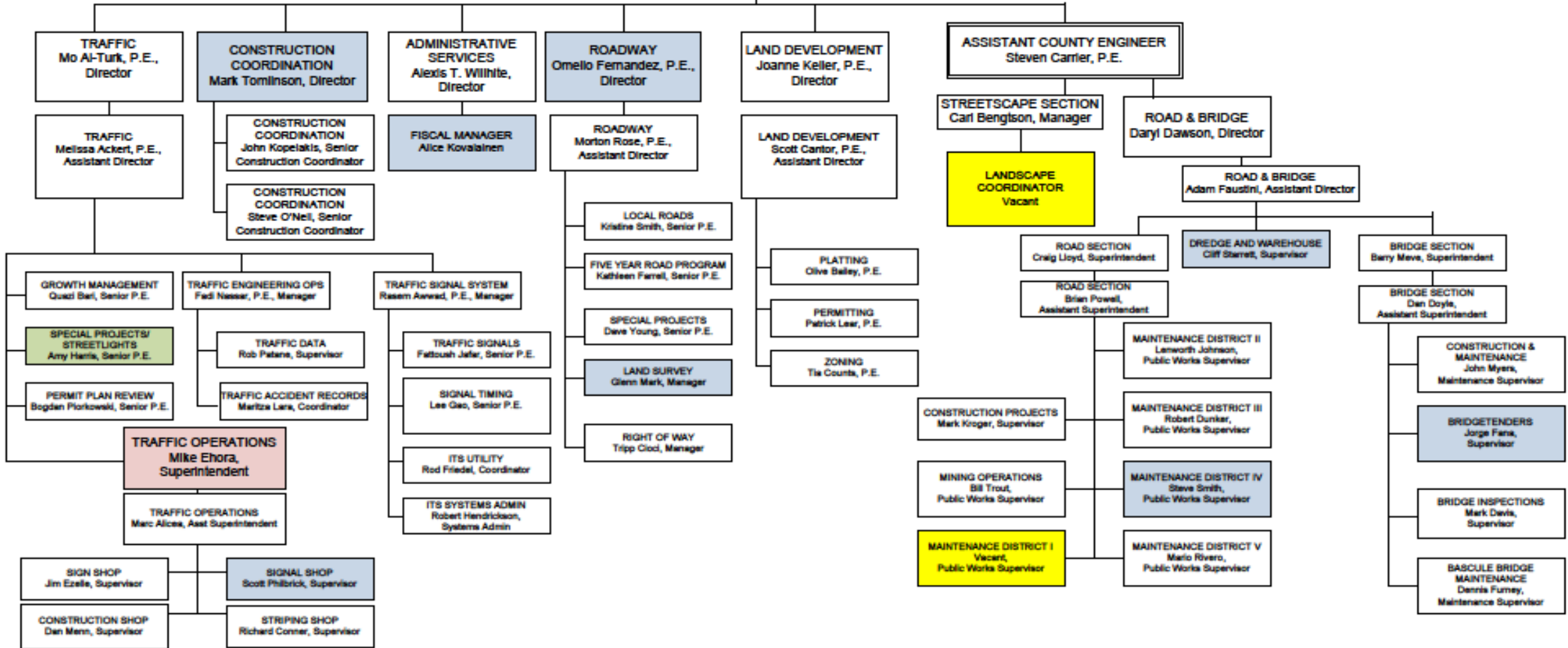
EXECUTIVE SECRETARY
Cathy Stewart

DEPUTY COUNTY ENGINEER
Tanya N. McConnell, P.E.

VACANT

EMPLOYEE IN DROP
(Set to retire before 8/31/19)

EMPLOYEE IN DROP
(Set to retire between 8/31/19 and 2/28/23)



Road and Bridge



	Budget	Positions
Total Budget	\$22,391,207	187
Revenues and Gas Tax	(\$13,730,454)	
Net Ad Valorem	\$8,660,753	187

- Road Section

- Annual Resurface / Pathway and Minor Construction Office
- Maintenance
 - 3,500 lane miles of paved roads
 - 40 lane miles of shell rock roads
 - 4 miles of milling roads
 - 190 miles of asphalt pathways
 - 2,250 miles of concrete sidewalks
 - mow 2,500 acres of Road right of way
 - Countywide Stormwater Drainage System

- North and South Sand Transfer Pumping Stations

- Bridge Section

- Bridge Tending
 - Staffs the Bascule Bridges with Bridge Tenders 24 hours a day 7 days a week
- Maintenance
 - 8 Bascule Bridges over the Intracoastal Waterway
 - one Swing Bridge at Point Chosen
 - 304 various types of fixed structures
 - Guardrails
 - Sidewalks/Pathways
 - L-2 Stormwater Pump Station



Traffic Engineering and Operations

	Budget	Positions
Total Budget	\$22,026,505	132
Revenues and Gas Tax	(\$18,665,369)	
Net Ad Valorem	\$3,361,136	132

- Intelligent Transportation System
 - real time control and monitoring of 850 traffic signals, 166 CCTV installations and other ITS devices connected over 500 miles of fiber-optic communications network

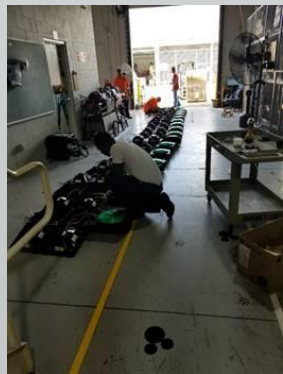


- Roadside Vendor Program
- Traffic Calming Program
- Annual Pathway Program

- Designing, installing, and maintaining
 - Signalization of more than 1,100 traffic signal devices and over 70 coordinated signal systems
 - Pavement markings
 - Signing

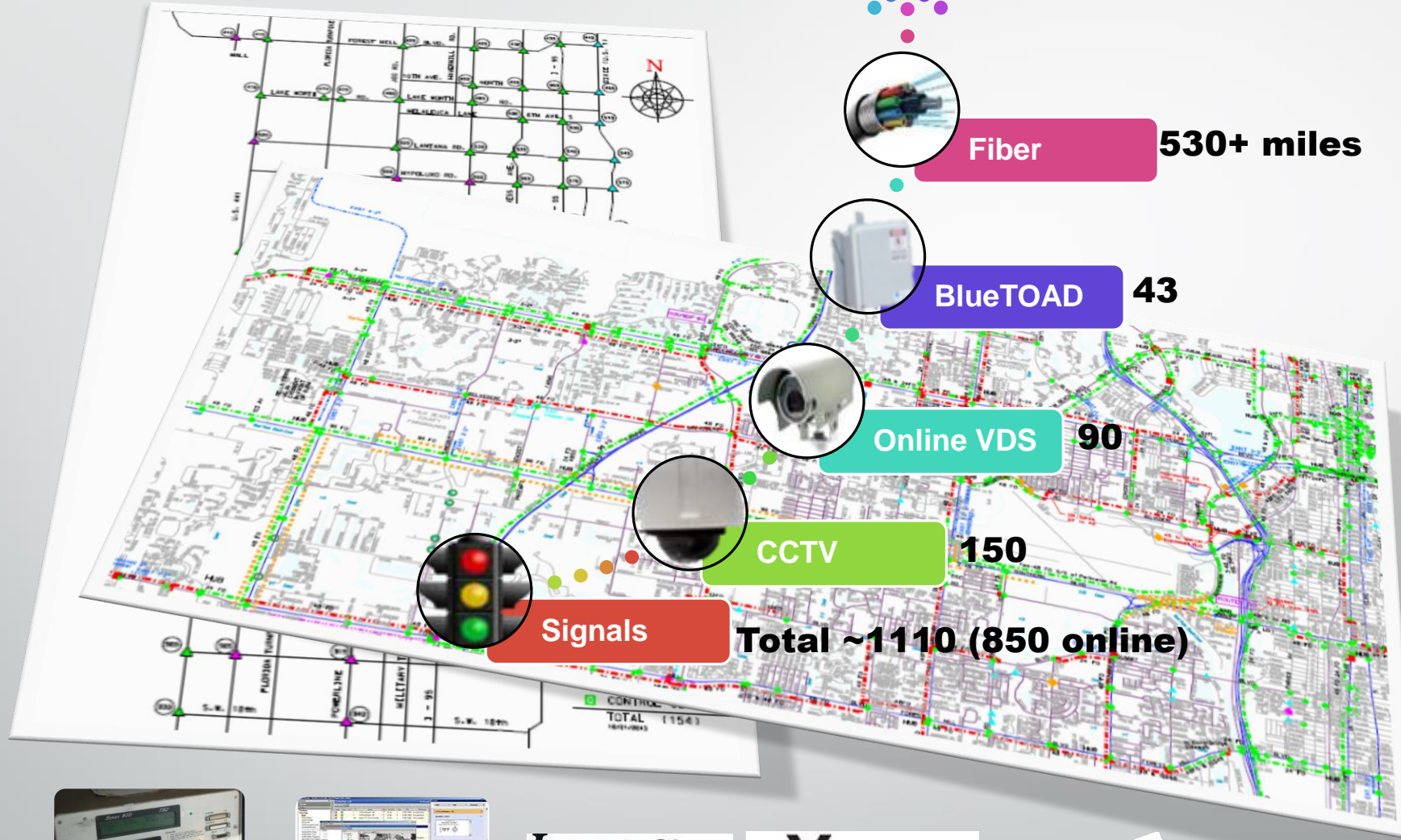


- Traffic Analysis and Performance Standards
 - Major road construction projects
 - Land development
 - Site planning
 - Transportation planning
- Street Lighting
- Traffic Accident Records





EXISTING ITS INFRASTRUCTURE



Naztec TS2



ATMS.now

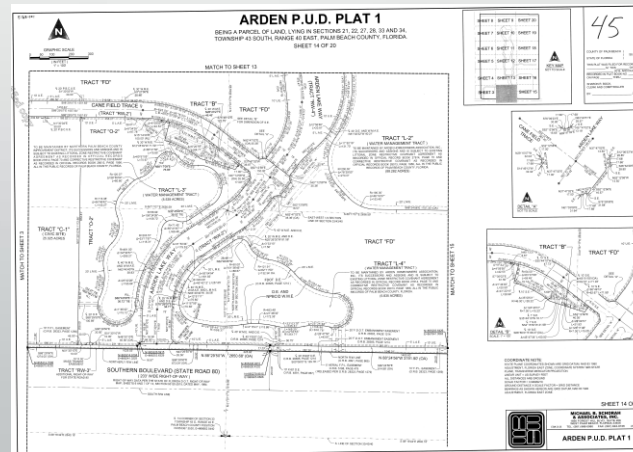


Land Development

	Budget	Positions		FY 2017
Total Budget	\$1,936,828	16	Public Hearing Applications	170
Revenues	(\$1,150,000)		Development Review Office Applications	182
Net Ad Valorem	\$786,828	16	Permits Issued	819
			Abandonments Reviewed	28
			Plats Recorded	50
			Plats Reviewed for Technical Compliance	53

- Permitting
 - Construction, maintenance, encroachments and landscaping within County maintained road rights of way
- Platting
 - Platting and approval of construction plans for residential and commercial subdivisions proposed within unincorporated areas of the County for conformance to current criteria
 - Per Article 11, staff has 30 days to review submittals and return to developer

- Zoning
 - Engineering review of Zoning applications
- Customer Service
 - Abandoning plats, roads and easements; Due diligence



Streetscape Section

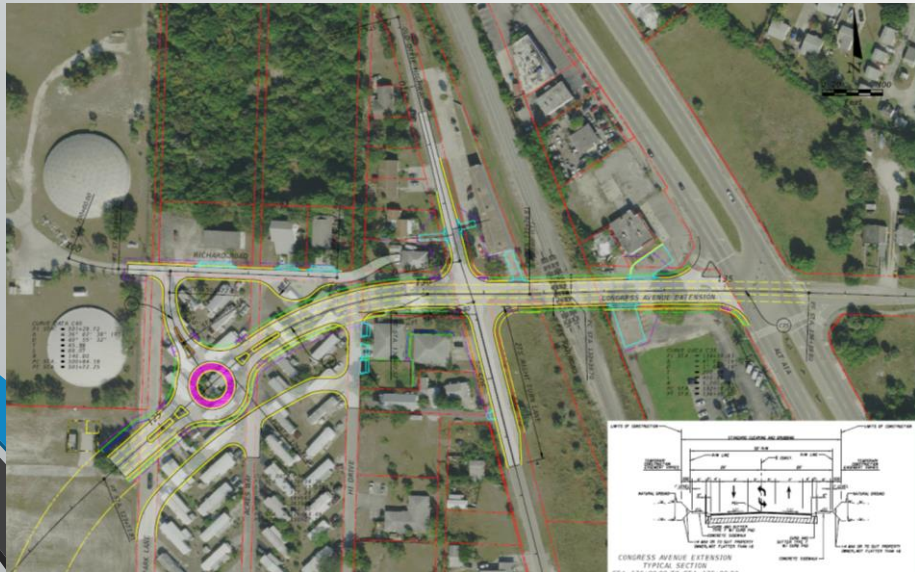
	Budget	Positions
Total Budget	\$3,622,150	14
Revenues and Gas Tax	(\$3,070,371)	
Net Ad Valorem	\$551,779	14

- Maintain 72 Irrigation Pump stations and 5 Telemetry control towers.
- Remove over 50 Tons of trash from Public Road and Public Property per year through an annual landscaping contract.
- Maintain a 13 acre tree farm allowing the County to accept tree donations for use in our beautification programs and for tree rehabilitation purposes.



- Maintain 150 miles of beautified median landscaping on County thoroughfare roads.
- Maintain 44 miles of beautified median landscaping on Florida State Highway systems through reimbursable agreements.
- Maintain over 10,700 beautification trees
 - Sequester over 100 tons of Carbon per year
 - Provided the net cooling effect of 85,000 room sized air conditioners operating 20 hours a day.
- Florida Green Building Coalition practices
 - All 72 irrigation pump stations equipped with rain 'cut-off' sensors and are equipped with flow sensors which are monitored and logged for water usage (shallow aquifer withdrawal) and time of operations.
 - Uses reclaimed water for irrigation where available.
 - All Construction Coordinators, Irrigation Techs, Crew Chief and Professionals are trained in "Florida Friendly" Practices.
- Landscape Architectural and Environmental support for other Divisions and Sections of Engineering Department, as well as ERM and Planning Zoning & Building.

Roadway Production



	Budget	Positions
Total Budget	\$3,002,324	52
Revenues and Gas Tax	(\$3,002,324)	
Net Ad Valorem	\$0	0

- Division has 142 projects which are presently under design, Right-of-Way Acquisition or Construction.
- **Five Year Road Program**
 - Design/Study – 63 active projects
 - Right-of-way -216 parcels in the acquisition process
 - Construction – 40 Projects under construction at a cost of \$57 million providing 20 lane miles of additional roadway.
- **Sections**
 - Thoroughfare Roads
 - Right-of-Way Acquisition
 - Land Survey
 - Contracts
 - Special Projects
 - Local Roads

Construction Coordination



	Budget	Positions
Total Budget	\$990,708	20
Revenues and Gas Tax	(\$990,708)	
Net Ad Valorem	\$0	0

- Ensures that County, State, and required standards and specifications are applied and adhered to for the construction of:
 - Thoroughfare roads
 - Bridges
 - Minor street improvements
 - Housing and Economic Sustainability projects
- Monitors construction within County-permitted subdivisions, and within County rights-of-way for compliance with plans, specifications, and permit requirements.

Type	Number of Projects	Total Budget
Active Construction	19	\$41,821,711
Bid Projects (Upcoming)	7	\$25,210,378
Total	26	\$67,302,089



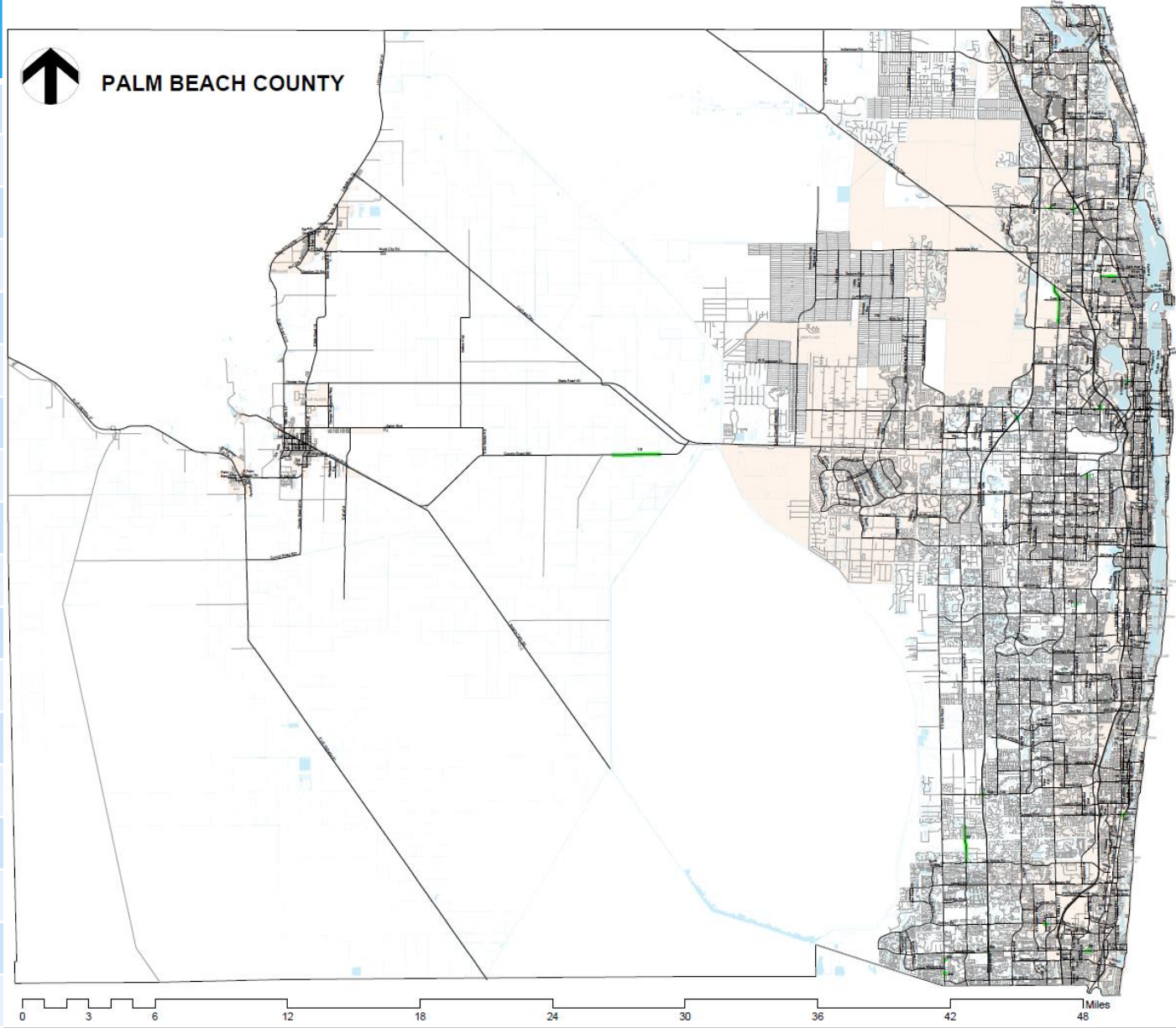
FIVE YEAR ROAD PROGRAM ESTIMATED COSTS

•FY 2018	\$60,660,000
•FY 2019	\$95,981,000
•FY 2020	\$71,060,000
•FY 2021	\$42,590,000
•FY 2022	<u>\$43,430,000</u>
TOTAL (FY18- FY22)	<u>\$313,721,000</u>



COUNTYWIDE CONSTRUCTION PROJECTS MAP (FY 18)

Projects	
1	Atlantic Ave. and Florida's Turnpike
2	Australian Ave. and Palm Beach Lakes Blvd.
7	Congress Ave., North of Okeechobee Blvd. to Ware Dr.
10	CR880, 3.7 Mi. W. of SR 80 to 1.5 Mi. W. of SR 80
11	Davis Rd. over LWDD L-6 Canal
15	Glades Rd. and Butts Rd.
18	Haverhill Rd., N. of Caribbean Blvd. to Bee Line Hwy.
22	Jog Rd., over Florida's Turnpike
30	Lyons Rd., Clint Moore Rd. to N. of LWDD L-39 Canal
38	Palmetto Park Rd., SW 7th Ave. to SW 5th Ave.
40	PGA Blvd. and Central Blvd.
41	PGA Blvd. and Military Trail
44	Sandalfoot Blvd./SR 7 over LWDD E-1 Canal
48	Silver Beach Rd., E. of Congress Ave. to Old Dixie Hwy.
50	S.W. 3rd. St./SR 7 over LWDD E-1 Canal
67	Linton Blvd. and S. Federal Hwy.
68	Palmetto Park Rd. & Boca Rio Rd.
72	Lawrence Rd., over LWDD L-17 Canal

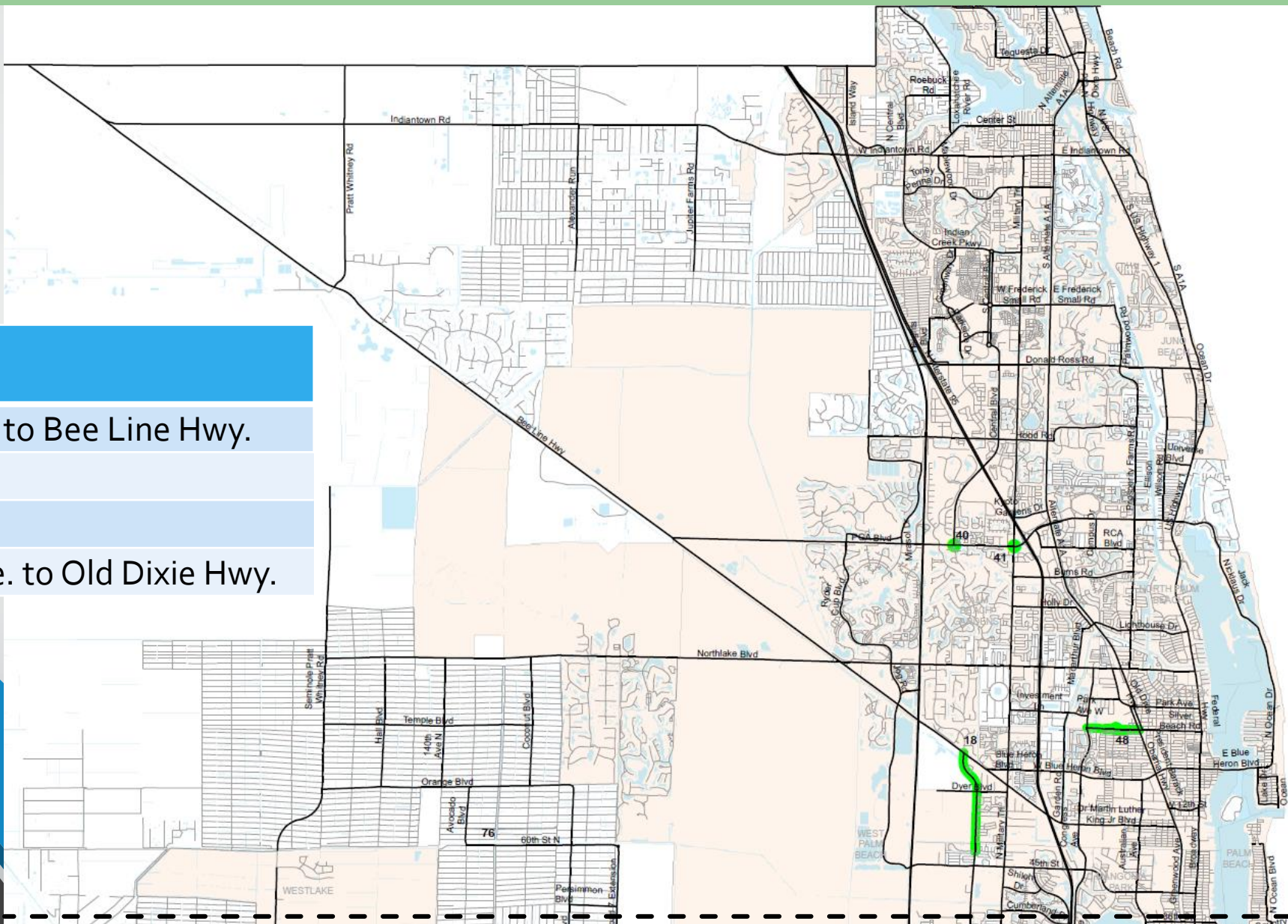




NORTH COUNTY CONSTRUCTION PROJECTS MAP (FY 18)

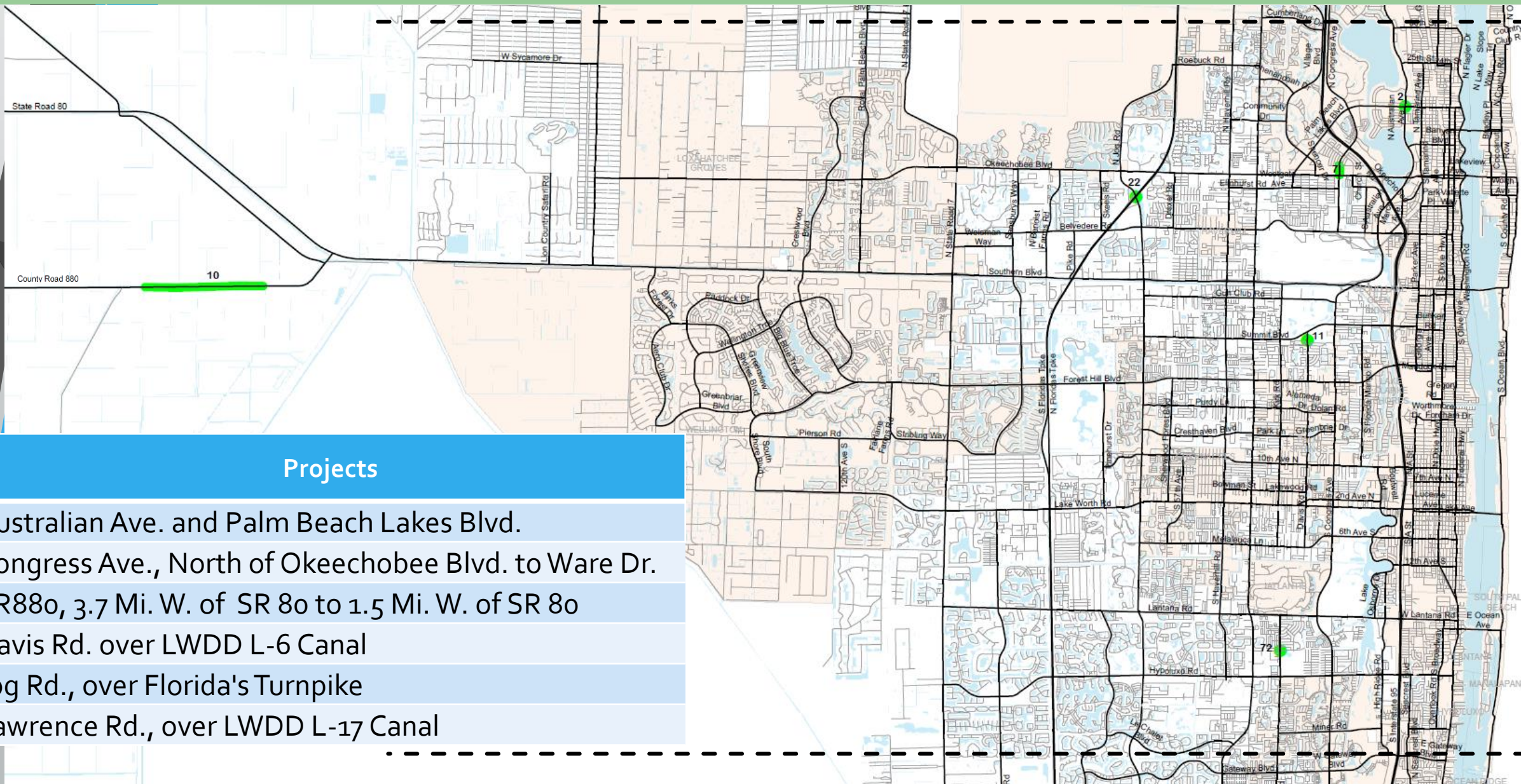
Projects

- 18 Haverhill Rd., N. of Caribbean Blvd. to Bee Line Hwy.
- 40 PGA Blvd. and Central Blvd.
- 41 PGA Blvd. and Military Trail
- 48 Silver Beach Rd., E. of Congress Ave. to Old Dixie Hwy.





CENTRAL COUNTY CONSTRUCTION PROJECTS MAP (FY 18)



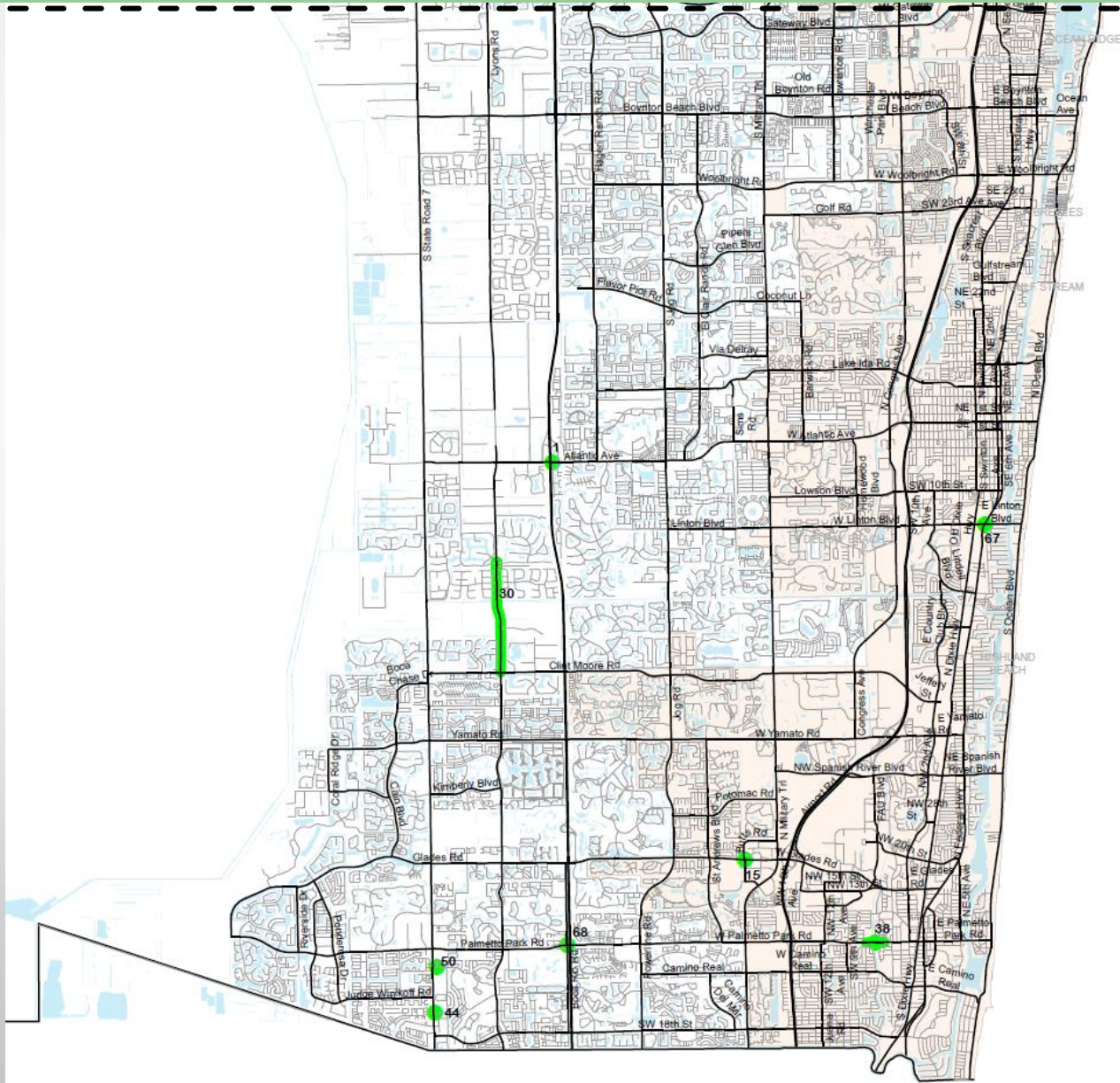
Projects

- 2 Australian Ave. and Palm Beach Lakes Blvd.
- 7 Congress Ave., North of Okeechobee Blvd. to Ware Dr.
- 10 CR880, 3.7 Mi. W. of SR 80 to 1.5 Mi. W. of SR 80
- 11 Davis Rd. over LWDD L-6 Canal
- 22 Jog Rd., over Florida's Turnpike
- 72 Lawrence Rd., over LWDD L-17 Canal



SOUTH COUNTY CONSTRUCTION PROJECTS MAP (FY 18)

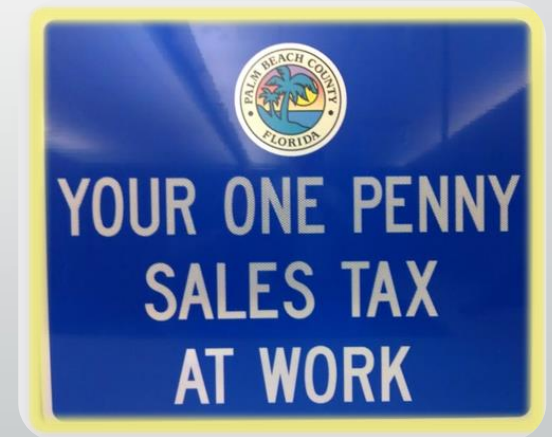
Projects	
1	Atlantic Ave. and Florida's Turnpike
15	Glades Rd. and Butts Rd.
30	Lyons Rd., Clint Moore Rd. to N. of LWDD L-39 Canal
38	Palmetto Park Rd., SW 7th Ave. to SW 5th Ave.
44	Sandalfoot Blvd./SR 7 over LWDD E-1 Canal
50	S.W. 3rd. St./SR 7 over LWDD E-1 Canal
67	Linton Blvd. and S. Federal Hwy.
68	Palmetto Park Rd. & Boca Rio Rd.



Engineering Sales Tax Projects

Bridges	\$ 43.4 m	(27)
Roads (Resurfacing)	\$ 77.6 m	(121)
Roads (Restriping)	\$ 9.0 m	(many)
Pathways	\$ 5.0 m	(8)
Signals & Signal Systems	\$ 15.0 m	(17)
Street Lighting	\$ 12.0 m	(many)
CR 88o Canal Bank Stabilization	\$ 5.0 m	
Belvedere Road Canal Piping	\$ 1.0 m	
Drainage (Pipe Repairs)	\$ 3.0 m	(4)
Drainage (Improvements)	\$ 25.0 m	(8)

TOTAL \$ 196.0 m



Engineering Sales Tax for FY 2018

Bridge Design

- Wabasso Dr. over LWDD L-2 Canal
- Belvedere Rd. over E-3 Canal
- Prosperity Farms Rd over SFWMD C-17 Canal

Road Restriping – various locations countywide

Drainage Pipe Replacements – various locations countywide

Streetlighting (replace high pressure sodium with LED) – various locations countywide

Signals

- Blue Heron Blvd & Riviera FS #2
- Boynton Beach Blvd & Seacrest Blvd
- School Zone System upgrade
- Upgrade Video Detection

Road Resurfacing

- Cannon Gate (residential roads)
- Congress Ave: Lake Ida Rd to Summit Dr
- Congress Ave: Miner Rd to S of Hypoluxo Rd
- Community Dr: Haverhill Rd to Military Trl
- Duda Extension: CR 88o to Gator Blvd
- Military Trl: Hypoluxo Rd to Lake Worth Rd
- Military Trl: South County Line to Palmetto Park Rd
- Northlake Blvd: Military Trl to Beeline Hwy
- Okeechobee Blvd: Sem Pratt Whitney Rd to Royal Palm Beach Blvd
- Lawrence Rd: Boynton Beach Blvd to Lantana Rd
- Randolph Siding Rd: 110th to Jupiter Farms Rd
- Old Boynton Rd: Knuth Rd to Congress Ave
- Pratt Whitney Rd: Indiantown Rd to N County Line
- Sam Center Rd: CR 88o to Gator Blvd
- Summit Blvd: Military Trl to Congress Ave
- Golf Rd: Military Trl to Congress Ave
- 2 miles of CR 88o
- 2 miles of Browns Farm Rd



QUESTIONS?