



Palm Beach County

The Best of Everything.

FIVE YEAR ROAD PROGRAM Annual Update and INFRASTRUCTURE UPDATE Engineering and Public Works

Presented By:
David L. Ricks, P.E.
County Engineer

*Public Hearing
December 7, 2021*



FIVE YEAR ROAD PROGRAM

Public Hearing (December 7, 2021)

THE FIVE YEAR ROAD PROGRAM WAS ESTABLISHED BY ORDINANCE 85-40 TO SET FORTH THE ROAD PROJECTS TO BE FUNDED, DESIGNED AND CONSTRUCTED BY THE COUNTY WITHIN THE NEXT FIVE YEARS.

FUNDING SOURCES INCLUDE:

- IMPACT FEES •PROPORTIONATE SHARE •GAS TAXES •INFRASTRUCTURE SALES TAX
- FDOT AGREEMENTS AND MISCELLANEOUS AGREEMENTS (SEE EXHIBIT A, PAGE 1 OF 5)

The Five Year Road Program Annual Update includes adjustments to projects funding for Fiscal Years 2022 through 2026.



ANNUAL UPDATE (FY 2021 – FY 2025) *Public Hearing (December 7, 2021)*

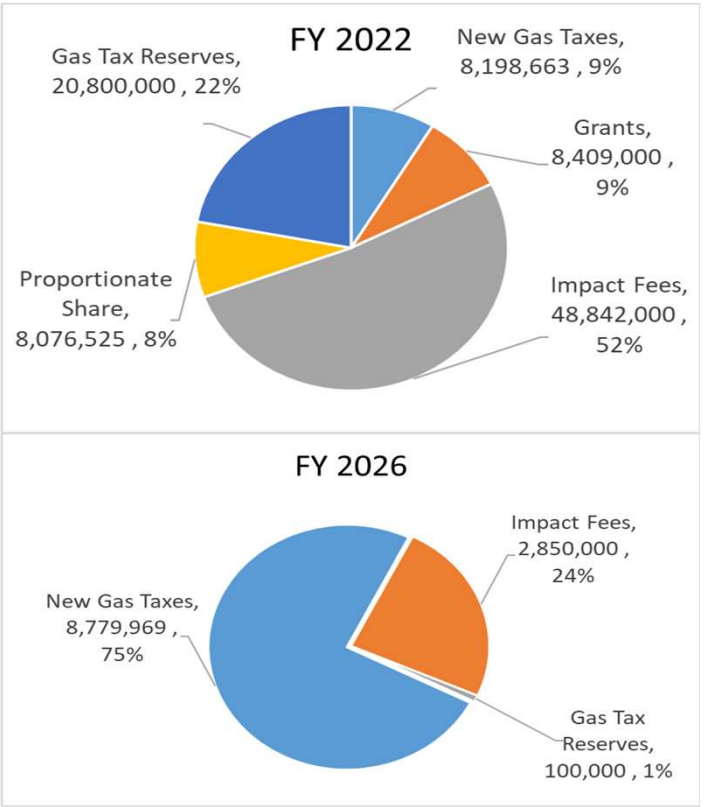
MID-YEAR ADJUSTMENT (FY 2021 – FY 2025)

ANNUAL UPDATE (FY 2022 – FY 2026)

Project Costs

	Annual Update Adopted December 22, 2020	Mid Year Adjustment BCC Resolution, June 8, 2021	Annual Update, Public Hearing December 7, 2021
•FY 2021	\$94,090,000	\$91,050,000	
•FY 2022	\$87,170,000	\$91,690,000	\$94,613,000
•FY 2023	\$39,260,000	\$44,860,000	\$63,190,000
•FY 2024	\$39,100,000	\$38,050,000	\$45,577,000
•FY 2025	\$32,680,000	\$29,740,000	\$29,850,000
•FY 2026			\$11,880,000
TOTAL	\$292,300,000	\$295,390,000	\$244,840,000

Revenues





FIVE YEAR ROAD PROGRAM ANNUAL UPDATE

KEY FUNDING ADJUSTMENTS (Dist. 1)

Public Hearing (December 7, 2021)

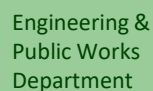
5YR Road Program - FY 2022 District 1 Line Items

Added	Revised	Delayed	Advanced
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PROJECT	LIMITS	DESCRIPTION	FY 2022 Cost	Phase	FY 2023 Cost	Phase	FY 2024 Cost	Phase	FY 2025 Cost	Phase	FY 2026 Cost	Phase	IFA	Commission District
Center Street	Loxahatchee River Rd. to Alt. A-1-A	1.7 mi., 3 L	600	D	1,000	D/R			2,000	C			1	1
Central Blvd.	Indiantown Rd. to Church St.	0.5 mi., 3 L			700	D			300	R			1	1
Church St.	Limestone Creek Rd. to W. of Central Blvd.	0.5 mi, 2 L	2,000	R/M/C	2,000	C							1	1
Congress Ave.	N. of Northlake Blvd. to Alt. A-1-A	0.6 mi, 2 L & 3 L	6,000	R/C									1	1
Donald Ross Rd.	Bascule Bridge	Equipment	8,000	C									T	1
Donald Ross Rd.	Ellison Wilson Rd.	Intersection Improvements (add 2nd NBL)					700	C					1	1
Donald Ross Rd.	U.S. 1	Intersection Improvements (add 3rd EBL & Free Flow SBRTL)			400	D			500	R/M			T	1
Northlake Blvd. TIM Amendment Study	Bay Hill Dr. to SR 7 & Beeline Hwy. to Military Tr.	Corridor Impact Study	350	S									3	1 & 6

TOTALS 16,950 4,100 700 2,800 0

NOTE: Numbers in \$1,000's



KEY FUNDING ADJUSTMENTS (Dist. 2)

Public Hearing (December 7, 2021)

NOTE: Numbers in \$1,000's

TOTALS

18,090

15,600

3,500

5,000

100



FIVE YEAR ROAD PROGRAM ANNUAL UPDATE

KEY FUNDING ADJUSTMENTS (Dist. 3)

Public Hearing (December 7, 2021)

5YR Road Program - FY 2022 District 3 Line Items

Added	Revised	Delayed	Advanced
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PROJECT	LIMITS	DESCRIPTION	FY 2022 Cost Phase	FY 2023 Cost Phase	FY 2024 Cost Phase	FY 2025 Cost Phase	FY 2026 Cost Phase	IFA	Commission District
6th Ave. S.	over Lake Osborne Dr.	Bridge Replacement	580 C					T	3
10th Ave. N.	Boutwell Rd.	Intersection Improvements	2,000 R/C					2	3
Florida Mango Rd.	10th Ave. North to Edgewater Drive	0.9 mi, 3 L (L.W.D.D. L-9 & L-10 Canals Bridge Replacements)	6,600 C					2	3
Florida Mango Rd.	S. of Barbados Rd. to Myrica Rd.	0.7 mi, 3 L (L.W.D.D. L-7 Canal Culvert Replacement)		2,600 C				2	2 & 3
Haverhill Rd.	Hypoluxo Rd. to Lantana Rd.	1.0 mi., 4 L			2,360 C			4	3
Hypoluxo Rd.	Jog Rd.	Intersection Improvements	2,160 C					4	3
Lawrence Rd.	S. of Ponza Place to Lantana Road	0.8 mi, 3 L	3,900 C					4	3
Miner Rd.	Military Trail to Lawrence Rd.	0.6 mi, 3 L	500 R/M		3,800 C			4	3
Miner Rd.	High Ridge Rd	Intersection Improvements	800 R/M		1,200 C			4	3

TOTALS **16,540** **2,600** **7,360** **0** **0**

NOTE: Numbers in \$1,000's



FIVE YEAR ROAD PROGRAM ANNUAL UPDATE

KEY FUNDING ADJUSTMENTS (Dist. 4)

Public Hearing (December 7, 2021)

5YR Road Program - FY 2022
District 4
Line Items

													Added	Revised	Delayed	Advanced
PROJECT	LIMITS	DESCRIPTION	FY 2022 Cost Phase		FY 2023 Cost Phase		FY 2024 Cost Phase		FY 2025 Cost Phase		FY 2026 Cost Phase		IFA	Commission District		
Clint Moore Rd.	Military Tr.	Intersection Improvements			2,100	C							5	4		
Jog Rd.	Potomac Rd. to Yamato Rd.	1.2 mi., 6 L	500 D/R/M		200 R				2,400 C				5	4		
Linton Blvd.	Military Tr.	Intersection Improvements	600 C										5	4 & 5		
Old Dixie Hwy.	Yamato Rd. to S. of Linton Blvd.	3.0 mi, 3 L					8,000 C						5	4		
Palmetto Park Rd.	E. of Military Trail to I-95	Intersection Improvements	2,000 C										5	4		
Palmetto Park Rd. Bascule Bridge	over Intracoastal Waterway	Rehab/Painting	50 C										T	4		
S.E. 23rd Ave.	Federal Highway	Intersection Improvements			50 R/C								5	4 & 7		
TOTALS			3,150		2,350		8,000		2,400		0					

NOTE: Numbers in \$1,000's



FIVE YEAR ROAD PROGRAM ANNUAL UPDATE

KEY FUNDING ADJUSTMENTS (Dist. 5)

Public Hearing (December 7, 2021)

5YR Road Program - FY 2022
District 5
Line Items

Added	Revised	Delayed	Advanced
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PROJECT	LIMITS	DESCRIPTION	FY 2022 Cost Phase	FY 2023 Cost Phase	FY 2024 Cost Phase	FY 2025 Cost Phase	FY 2026 Cost Phase	IFA	Commission District
Boca Rio Rd.	Palmetto Park Rd. to Glades Rd.	1.3 mi. 4/5 L		400 R		2,000 C		5	5
Flavor Pict Rd.	SR7 to Lyons Rd.	1.0 mi., 2 L	3,100 C					5	5
Flavor Pict Rd.	Lyons Rd. to Hagen Ranch Rd.	1.0 mi., 4 L		10 D	4,780 S/D/R			5	5
Linton Blvd.	Military Tr.	Intersection Improvements	600 C					5	4 & 5
Lyons Rd.	Atlantic Ave. to S. of Flavor Pict Rd.	2.4 mi, 4 L		500 R/M		6,000 C		5	5
Lyons Rd.	S. of Flavor Pict Rd. to Boynton Beach Blvd.	3.0 mi, 4 L		12,000 C				5	5
Palmetto Park Rd.	Lyons Rd.	Intersection Improvements		900 C				5	5
Sims Rd.	Lakes of Delray Blvd. to Atlantic Ave.	0.6 mi., 2 L		300 R/M				5	5
S.W.18th Street	Boca Rio Rd.	Intersection Improvements	1,840 C					5	5

TOTALS

5,540

14,110

4,780

8,000

0

NOTE: Numbers in \$1,000's



FIVE YEAR ROAD PROGRAM ANNUAL UPDATE

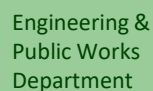
KEY FUNDING ADJUSTMENTS (Dist. 6)

Public Hearing (December 7, 2021)

5YR Road Program - FY 2022
District 6
Line Items

PROJECT	LIMITS	DESCRIPTION	FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		IFA	Commission District
			Cost	Phase	Cost	Phase	Cost	Phase	Cost	Phase	Cost	Phase		
60th St. N.	Seminole Pratt Whitney Rd. to 140th Ave. N.	2.7 mi., 4 L									250	D	3	6
60th St. N.	W. of 140th Ave. to Avocado Blvd.	0.8 mi., 3 L	500	D/R/M									3	6
60th St. N.	Avocado Blvd. to E. of 120th Ave. N.	1.6 mi. 3 L			6,000	C							3	6
Coconut Blvd.	S. of 78th Place North to S. of Northlake Blvd.	1.3 mi. 5 L					3,300	C					3	6
CR 880	Belle Glade to Twenty Mile Bend	Rehabilitation/Heavy Maintenance	1,000	C	1,000	C	1,000	C	1,000	C	1,000	C	T	6
CR 880	Sam Senter Rd. over SFWMD Ocean Canal	Intersection Improvements & Bridge Replacement			2,500	C							T	6
CR 880	over C-51 Canal	Bridge Replacement	4,500	C									T	6
Glades Area	R&R Throughout the Glades	Repair/Reconstruction	700	C	700	C	700	C	700	C	700	C	T	6
Lyons Rd.	S. of L.W.D.D. L-11 Canal to N. of L.W.D.D. L-10 Canal	0.6 mi, 2/3 L			100	P							3	2 & 6
Lyons Rd./Sansbury's Way	Forest Hill Blvd. to Okeechobee Blvd.	Buffered Bike Lanes	6,060	C									T	2 & 6
Northlake Blvd. TIM Amendment Study	Bay Hill Dr. to SR7 & Beeline Hwy. to Military Tr.	Corridor Impact Study	350	S									T	1 & 6
Okeechobee Blvd. - Loxahatchee Groves	A Road to Folsom Rd.	Multi-Use Trail & Roundabout	793	D			2,727	C					T	6
Royal Palm Beach Blvd.	N. of Persimmon Blvd. to N. of M Canal	1.1 mi. 5 L	500	R					3,000	C			3	6
Royal Palm Beach Blvd.	M Canal to S. of Orange Blvd.	1.0 mi, 5 L	6,000	R/C									3	6
Royal Palm Beach Blvd. / Orange Blvd. / Coconut Blvd.	S. of Orange Blvd. to S. of 78th Place North	1.6 mi, 5 L	400	R									3	6
State Road 7	Weisman Way	Intersection Improvements	120	C									3	6
TOTALS			20,923		10,300		7,727		4,700		1,700			

NOTE: Numbers in \$1,000's



KEY FUNDING ADJUSTMENTS (Dist. 7)

Public Hearing (December 7, 2021)

5YR Road Program - FY 2022
District 7
Line Items

														Added	Revised	Delayed	Advanced
PROJECT	LIMITS	DESCRIPTION	FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		IFA	Commission District			
			Cost	Phase	Cost	Phase	Cost	Phase	Cost	Phase	Cost	Phase					
45th St.	E. of Haverhill Rd. to E. of Military Trail	0.6 mi., 6 L	2,460	C									2	7			
Haverhill Rd.	S. of Ceceile Ave. to N. of Century Blvd.	Intersection Improvements, 0.2 mi., 4/6 L			1,200	C							2	2 & 7			
Okeechobee Blvd.	Haverhill Rd.	Intersection Improvements	1,030	C									2	2 & 7			
S.E. 23rd Ave.	Federal Highway	Intersection Improvements			50	R/C							5	4 & 7			
Woolbright Rd.	Seacrest Blvd.	Intersection Improvements	1,400	C									4	7			
TOTALS			4,890		1,250		0		0		0						

NOTE: Numbers in \$1,000's



FIVE YEAR ROAD PROGRAM ANNUAL UPDATE

Public Hearing (December 7, 2021)

			Added		Revised		Delayed		Advanced					
PROJECT	LIMITS	DESCRIPTION	FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		IFA	Commission District
			Cost	Phase	Cost	Phase	Cost	Phase	Cost	Phase	Cost	Phase		
Northlake Blvd. TIM Amendment Study	Bay Hill Dr. to SR7 & Beeline Hwy. to Military Tr.	Corridor Impact Study	350	S									T	1 & 6

Study Highlight – Northlake Blvd

- Produce preliminary layout for 142' ROW, 11' widening on both sides and investigate possibility of additional 11' of widening to replace existing right turn lanes
- Produce preliminary plans for new through lanes at intersections
- Provide preliminary drainage calculations to estimate capacity needs for widening
- Estimate ROW acquisition costs
- Estimate construction costs for widening from 6 to 8-lanes
- November - December 2021: Negotiate Consultant Scope and Fee
- March 2022: Award consultant study contract and begin study
- August 2022: Submittal of Draft Study for PBC Staff Review & Comment
- October 2022: Final Study Submittal



PROJECTS SCHEDULED FOR CONSTRUCTION AWARD IN FY 2022

Project Name and Limits	Description	Estimated Construction Cost	Commission District
Belvedere II	Sidewalk & Pedestrian Lighting	\$1,086,000	2
Congress Ave., N. of Northlake Blvd. to Alt A1A - Phase A	0.6 mi., 2 L & 3 L	\$1,308,000	1
Donald Ross Rd. Bascule Bridge	Equipment	\$800,000	1
10th Ave. N. & Boutwell Rd.	Intersection Improvements	\$1,490,000	3
Benoist Farms Rd., SR 80 to Belvedere Rd.	0.9 mi., 3 L	\$3,750,000	2
Congress Ave. at Palm Beach Lakes Blvd.	Intersection Improvements	\$2,000,000	7
Del Prado Cir. At Palmetto Cir. Intersections	Intersection Improvements	\$520,000	4
Flavor Pict Rd., SR 7 to W. of Lyons Rd.	1.0 mi, 2L	\$3,100,000	5
Lantana Rd. at Congress Ave.	Intersection Improvements	\$670,000	3
Lawrence Rd: south of Ponza Place to Lantana Rd	0.8 mi, 3L	\$3,900,000	3
Linton Blvd. & Military Trl.	Intersection Improvements	\$1,700,000	4 & 5
Lyons Rd. / Sansbury's Way, Forest Hill Blvd. to Okeechobee Blvd.	Buffered Bike Lanes	\$6,060,000	2 & 6
Northlake Blvd., E. of Seminole Pratt Whitney Rd. to E. of Hall Blvd. & E. of Hall Blvd. to Coconut Blvd.	1.0 mi, 4L and 2.4 mi., 4/6 L	\$25,000,000	1 & 6
Palm Beach Lake Blvd. & N. Robbins Dr.	Intersection Improvements	\$500,000	7
Palmetto Park Rd., E. of Military Trail to I-95	Intersection Improvements	\$2,900,000	4
Royal Palm Beach Blvd., M-Canal to S. of Orange Blvd.	1.0 mi., 3 / 5 L	\$6,200,000	6
Wabasso Dr. over L-2 Canal	Bridge Replacement	\$750,000	7
Westgate Ave. from Wabasso Dr. to Congress Ave.	0.9 mi., 3 L	\$4,800,000	7
Total:		\$66,534,000	



ENGINEERING & PUBLIC WORKS INFRASTRUCTURE UPDATE

- 3,500 lane miles of paved roads
- 40 miles of shell rock roads
- 10 miles of asphalt milling roads
- 1,130 miles of concrete sidewalks
- 190 miles of asphalt pathways
- 2,500 acres of right of way to mow
- 8 bascule bridges, 1 swing bridge
- Maintain over 10,700 beautification trees
- Maintain over 44 miles of beautified
- median landscaping on state highways



- 1,250 traffic control signal devices with over 70 coordinated signal systems
- 850 signals with real-time monitoring
- 180 CCTV installations
- 470 miles of fiber optic communications for Intelligent Transportation System (ITS) network



Flashing **Yellow** Arrow for Left Turn

- First deployed November 2019
- Already installed at 15 intersections and 40 more are in the process
- Improves pedestrian safety
- Reduces signal delay
- Adopted as a County design standard for all new signals
- Existing signals will be converted based on safety needs
- Traffic Division developing project proposals to secure federal safety funding for massive conversion of existing signals (over 900)

SEE THIS	DO THIS
	Turn left.
	Prepare to stop or complete your left turn.
	Turn left provided there is a safe gap in vehicle and pedestrian traffic.
	Stop.

Flashing **RED** Arrow for Right Turn

- Improves pedestrian safety at signalized intersections
- Currently in early planning stages
- Anticipated first deployment in late spring 2022



Traffic Signal Infrastructure Improvements

Safety Initiatives

- Transit Signal Priority (TSP) system deployment on US Hwy 1 and Okeechobee Blvd Corridors in FY-23 and FY-24 in cooperation with Palm Tran through a grant from Palm Beach TPA
- Emergency Vehicle Preemption (EVP) system in cooperation with PBC Fire Rescue. Deployment on several major corridors following the TSP deployment
- Installing reflective back plates to improve signal display visibility on all new signals
- Upgrading 27 signals from span wire to mast arm through FDOT
- Deployed cellular communication system at 90 school flashers



Pedestrian Safety Improvement Updates

Flashing Pedestrian Crosswalks

- Received a Transportation Alternative Program grant through Palm Beach Transportation Planning Administration
- 24 existing crosswalk locations on Ocean Dr. and A1A (between Donald Ross Rd. and Indiantown Rd.)

Pedestrian Signals

- Deployed affirmative (audible/visual confirmation) pedestrian push-buttons. More than 200 intersections have been fully retrofitted to date
- Deployed countdown pedestrian signals. More than 75% of all signals have been converted to date



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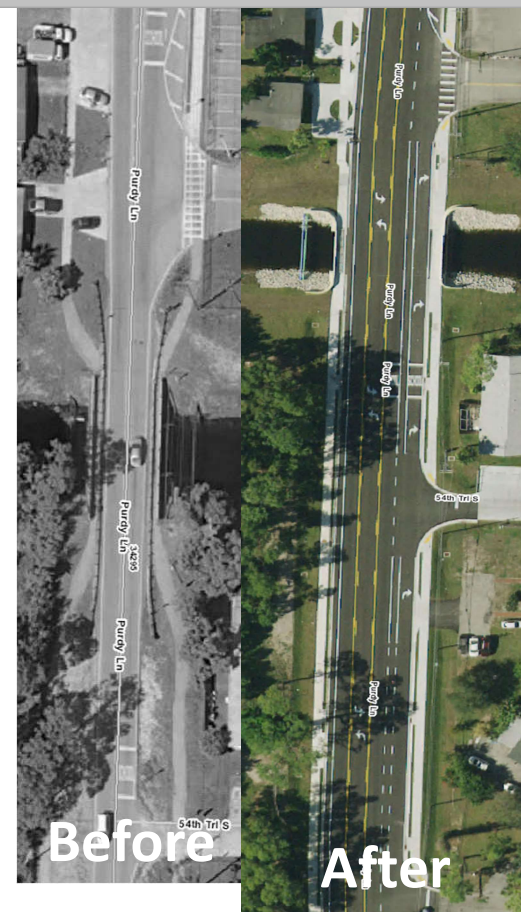
Sidewalk Program

- \$1.5M in annual capital funding.
- Focuses on providing a system of safe pedestrian sidewalks within the County, especially safe access to Schools and other community resources.

Discovery Key Elementary School



Forest Hill Elementary School





Engineering &
Public Works
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Bike Lane Updates

- Lyons Road / Sansbury's Way (Forest Hill Boulevard to Okeechobee Blvd.) – Separated Bike Lanes
 - \$5M
 - Approximately 2.8 miles
 - Scheduled for construction FY 2023
- Cresthaven Boulevard (Jog Road to Military Trail) – Buffered Bike Lanes
 - \$4.6M
 - Approximately 2.1 miles
 - Scheduled for construction FY 2024
- Prosperity Farms Road (Northlake Boulevard to Donald Ross Road) – Standard Bike Lanes
 - \$13M
 - Approximately 5 miles
 - Scheduled for construction FY 2026
- PBC has added or refurbished 311,608 linear feet of bike lanes since 2017.





Railroad Safety

DYNAMIC ENVELOPE PAVEMENT MARKINGS

- We are in the process of applying for a permits to add the new “Dynamic Envelope Pavement Markings” at certain existing crossings with FEC, SCFE and USSC railroads. These are enhanced pavement markings to warn the public of the railroad crossing.
- SFRTA railroad have been adding these marking to their crossings.
- FEC is adding them to the crossings they are working on in north County.
- The FDOT has a federal grant (CRISI) that will add them to several crossings out in the Glades area and several along CSX. The FDOT project along the Beeline will be adding them to impacted railroad crossings as well.
- The County is planning on adding the Dynamic Envelope Markings at 15 crossings: 11 are on FEC Railroad Crossings, 3 at SCFE Railroad Crossings and 1 at an USSC Railroad Crossing (the SCFE & USSC are in the Glades region).

Pictures of Linton Blvd and
SFRTA Rail as installed by FDOT.





FY 2021 RESURFACING UPDATE

FY 2021- RESURFACING PROJECTS (Updated)

Locations / Limits	Estimated Amount
Lyons Road/Hypoluxo Rd to Lantana Rd – Complete Inv. \$612,000	\$1,200,000
Congress Ave/Roberts Ln to Lake Worth Rd– Complete Inv. \$371,000	\$488,000
Hypoluxo Rd/Military Trail to US 1 "ST"– Complete Inv. \$1,371,933	\$1,500,000
Belvedere Rd/Benoist Farms Rd to Jog Rd "ST"– Complete Inv. \$807,839	\$820,000
Lantana Rd/Fla Turnpike to Hagen Ranch Rd "ST" – Complete Inv. \$424,713	\$430,000
El Clair Ranch Rd/Lake Ida Rd to Woolbright Rd 15 days "ST"– Complete Inv. \$522,284.01	\$540,000
Kimberly Blvd SR7 to Lyons Rd - Complete Inv. \$351,412.7	\$350,000
Woolbright Rd / Hagen Ranch Rd to Military Tr - Complete Inv. \$1,004,684.43	\$975,000
Keating Dr - Palm Bch Square Unit 1 & 2 WPB Subdivisions - Complete Inv. IP	\$236,000
Northlake/Alt A1A to Federal - In Process	\$500,000
Lake Ida Road/Congress Av to Swinton Ave	\$440,000
Woodcrest S/D - In Process	\$167,000
Wynnewood Acres-SD - In Process	\$500,000
Seacrest Blvd/Gulfstream Blvd To Hypoluxo Rd "ST" - Complete Inv. IP	\$1,700,000
Woolbright Rd/Congress Ave to Federal Hwy "ST" - In Process	\$650,000
Trends at Boca – Complete Inv. \$254,667	\$260,000
Shorewind Dr/Palmetto Park To Palmetto Park – Complete Inv. \$290,388	\$260,000
Boca Chase Riviera Sec 1– Complete Inv. \$108,253	\$59,000
Boca Chase- 180th Place S from Cul-De-Sac to Boca Chase Dr. – Complete Inv. \$77,959	\$73,000
Dyer Boulevard - 49th Terrace to Military Trail - Complete Inv. \$53,809	\$98,000
New England Blvd from SR7 to Lyons Road - Complete Inv. \$215,425.76	\$197,000
Sandalfoot Cove Sec 9 (Barwood Estates) - Complete Inv. \$137,304	\$150,000

Boca Chase Sec 2– Complete Inv. \$78,293	\$155,500
Boca Chase Sec 4 – Complete Inv. \$56,360	\$66,000
Boca Chase Sec 5 – Complete Inv. \$118,347	\$123,000
Boca Chase Dr / Cain Blvd to SR7 – Complete Inv. \$142,706	\$85,000
50th St/Homeland Rd to SR7 – Complete Inv. \$152,020	\$170,000
Alexander Run from Randolph Siding Rd. to Indiantown Rd.- "ST" – Complete Inv. \$259,991	\$300,000
Alexander Run from Sandy Run to Randolph Siding Rd. – Complete Inv. \$80,068	\$65,000
Folsom Rd/Crestwood Blvd to Okeechobee Blvd "ST" – Complete, Inv. \$278,196.16	\$280,000
Crestwood Blvd / SR80 to Folsom Rd – Complete, Inv. \$561,662.60	\$170,000
Crestwood Blvd/Folsom Rd to Okeechobee Blvd "ST" – Complete, Inv. \$161,474.99	\$700,000
Hypoluxo Rd / Jog Rd to Military Trl. – Complete Inv. \$930,936	\$1,300,000
Lake Belvedere Estates - Complete Inv. \$326,034.89	\$295,000
Browns Farm Road - "ST" - Complete Inv. \$136,099.73	\$250,000
CR 880 - "ST" - Complete Inv. \$145,406	\$300,000
Hatton Hwy/Gator Blvd to SR80 "ST" - Complete Inv. \$209,523.24	\$320,000
Curlee Rd/SR80 to W Sugar House Rd "ST" - Complete Inv. \$116,814	\$150,000
Garden Rd / Beeline Hwy (MLK) to Investment Ln "ST"	\$300,000
Timbers of Boca - Complete Inv. \$138,129.5	\$160,000
A1A / US1 to Donald Ross Rd	\$250,000
Boca Rio Road/SW 18th St to Glades Ro ad- "ST"	\$600,000
Arbor Glenn Pl 1 & 2 - Complete Inv. \$136,925.49	\$170,000
Sandalfoot Cove Sec 4 - Complete Inv. \$102,799	\$115,000
Sandalfoot Cove Sec 5 - Complete Inv. \$135,438.25	\$145,000
Sandalfoot Cove Sec 6 - Complete Inv. \$1,10,056.50	\$120,000
FY 2021 TOTAL	\$18,547,500



FY 2022 RESURFACING

FY 2022- RESURFACING PROJECTS	
Locations / Limits	Estimated Amount
Palmetto Park Road from Glades Road to Crawford Blvd. "ST"	\$3,700,000
Belvedere Road from Jog Road to Haverhill Road "ST"	\$600,000
10th Avenue from Pinehurst Drive to Haverhill Road "ST"	\$700,000
10th Avenue from Pinehurst Drive to Haverhill Road "ST"	\$800,000
Jog Road from Glades Road to Potomac "ST"	\$700,000
Westgate Avenue From Military Trail to 100' west of Wabasso "ST"	\$500,000
Palm Beach Lakes Blvd from I-95 to US 1 "ST"	\$700,000
Palm Beach Lakes Boulevard from Okeechobee Boulevard to I-95 "ST"	\$400,000
Sandy Run from 120th Place to North Jupiter Farms Road "ST"	\$300,000
S.W. 8th Street from S.W. 65th Avenue to Boca Rio Road "ST"	\$400,000
Pipers Glen Boulevard from Jog Road to Military Trail "ST"	\$200,000
Florida Mango Road from Belvedere Road to North of Old Okeechobee Road "ST"	\$200,000
CR 880 - "ST" - 2 MILES - 5 days	\$200,000
Browns Farm Road - "ST" - 2 - MILES 5 days	\$200,000
Prosperity Farms Road from Hood Road to Donald Ross Road "ST"	\$300,000
Ellison Wilson - McLaren Rd to Donald Ross Rd	\$780,000
Camino Del Mar - Sw 18th Street to Camino Real	\$200,000
Cabana Colony S/D	\$890,000
Lakes of Sherbrooke S/D	\$1,000,000
FY 22 TOTAL	\$12,770,000



Engineering &
Public Works
Department

FY 2021 ADA/Crosswalk/Pathway Projects

FY 2021 Project Location / Limits	Project Description	Cost
Pinehurst Dr - Lk Worth Rd to Forest Hill Blvd (SALES TAX)	ADA	\$ 7,800
Florida Mango Rd @ Barbados Rd	ADA	\$ 1,500
Jog Rd - Summit Blvd to Gun Club Rd (SALES TAX)	ADA	\$ 22,300
Woolbright Rd - Lawrence to Congress (SALES TAX)	ADA	\$ 9,300
Frederick Small - Military Tr to Palmwood Rd (SALES TAX)	ADA	\$ 1,300
Frederick Small - Central Blvd to Military Tr (SALES TAX)	ADA	\$ 20,400
Jog Rd - Boynton Beach Blvd to Hypoluxo Rd	ADA	\$ 74,800
Sleepybrook / Winding Creek SD	ADA	\$ 14,500
Overlook Rd - Miner Rd to Hypoluxo Rd	ADA	\$ 27,900
Miner Rd @ Rolling Green Elem	ADA	\$ 5,300
Palmwood Rd - Donald Ross Rd to Frederick Small Rd	ADA	\$ 4,200
Summit Boulevard - Jog Rd to Military Trail	ADA	\$ 50,100
Haverhill Extension - Military Trail to Canal Dr	ADA	\$ 7,900
Juno Isles Blvd - Ellison Wilson Rd to US 1	ADA	\$ 6,300
Loxahatchee River Rd - Eagles Nest to County Line	ADA	\$ 8,800
Central Blvd - Indian Creek Dr to Indiantown Rd (ST)	ADA	\$ 28,700





Engineering &
Public Works
Department

FY 2021 ADA/Crosswalk/Pathway Projects

FY 2021 Project Location / Limits	Project Description	Cost
High Ridge Road - Hypoluxo Rd to Lake Osborne Drive (ST)	ADA	\$ 10,100
High Ridge Road - Miner Road to Hypoluxo Road	ADA	\$ 6,000
Old Dixie Hwy - SW 18th St to Glades Rd	ADA	\$ 76,300
Okeechobee Blvd – Royal Palm Beach Blvd to Wildcat Way (ST)	ADA	\$ 2,400
Central Blvd - Donald Ross Rd to Indiantown Rd	ADA	\$ 82,400
Donald Ross Rd - I-95 to A1A	ADA	\$ 14,900
Congress Ave - Belvedere Rd to Okeechobee Blvd	ADA	\$ 19,300
Central Blvd @ Toney Penna	ADA & Crosswalk Repairs	\$ 1,000
Collin Drive - Kirk Rd to Davis Rd	ADA	\$ 1,900
Shorewind Dr - Palmetto Park Rd	ADA	\$ 17,200
Gateway Blvd - Hagan Ranch Rd - Congress Ave	ADA	\$ 67,600
Indiantown Rd – Brian's Way - Jupiter Farms Rd	Pathway	\$ 149,800
Purdy Lane - Jog Rd	ADA	\$ 6,700
Old Pump House Rd - Coral Ridge	Pathway	\$ 3,000
Charleston Shores - Hagan Ranch Rd - Hagen Ranch Rd	ADA	\$ 14,400
Century Corners - At Haverhill Rd	ADA	\$ 8,200
50th St from - Homeland Rd to SR7	ADA	\$ 7,500
	FY 2021 Total	\$ 779,800





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FY 2022 ADA/Pathway Maintenance Projects

FY 2022 Project Location / Limits	Estimate
Orange Blvd. at Avocado	\$ 4,000
Seacrest Blvd/Gulfstream Blvd To Hypoluxo Rd ST	\$ 168,000
Lake Ida Road/Congress Av to Swinton Ave-"ST"	\$ 39,000
Hypoluxo Military Trail to US1 - IST	\$ 127,000
Jog Road/Okeechobee Blvd to Roebuck Rd	\$ 80,000
10th Ave/Haverhill Rd to Congress Ave	\$ 120,000
Wynnewood Acres - SD	\$ 10,000
Northlake/Alt A1A to Federal	\$ 50,000
Lyons Road/Hypoluxo Rd to Lantana Rd	\$ 40,000
Woolbright Rd/Congress Ave to Federal Hwy "ST"	\$ 50,000
El Clair Ranch Rd from Lake Ida to Woolbright Road	\$ 44,000
Belvedere Rd from Benoist to Jog	\$ 37,000
Crestwood Blvd from Folsom Rd to Okeechobee Blvd	\$ 55,000
Folsom Rd from Crestwood Blvd to Okeechobee Rd	\$ 37,000
Lantana Road from Turnpike to Hagen Ranch Road	\$ 21,000
South County Regional Park - ADA at Yamato Road NE, NW, SE, SW Corners and at Old Pump House Rd NE, NW, SW corners	\$ 7,000
Palmetto Park Road from Glades Road to Crawford Blvd. "ST"	\$ 123,000
Belvedere Road from Jog Road to Haverhill Road "ST"	\$ 49,000
10th Avenue from Pinehurst Drive to Haverhill Road "ST"	\$ 126,000
Jog Road from Linton Boulevard to Lake Ida Road "ST"	\$ 94,000
Jog Road from Glades Road to Yamato Road "ST"	\$ 63,000
Westgate Avenue From Military Trail to Congress Avenue "ST"	\$ 63,000
Palm Beach Lakes Blvd from I-95 to US 1 "ST"	\$ 125,000





Engineering &
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FY 2022 ADA/Pathway Maintenance Projects

FY 2022 Project Location / Limits	Estimate
Palm Beach Lakes Boulevard from Okeechobee Boulevard to I-95 "ST"	\$ 48,000
Sandy Run from 120th Place to North Jupiter Farms Road "ST"	\$ 20,000
S.W. 8th Street from S.W. 65th Avenue to Boca Rio Road "ST"	\$ 56,000
Prosperity Farms Road from Hood Road to Donald Ross Road "ST"	\$ 25,000
East Camino Real - Powerline Rd to FEC Tracks	\$ 20,000
Miner Rd / Lawrence Rd to Congress Ave	\$ 23,000
Park Ln / Military Trail to Donald Rd	\$ 7,000
Dillman Rd / Lyons Rd to Marginal Rd	\$ 25,000
Cambridge St / Haverhill Rd to Military Trail	\$ 28,000
Old Boynton Rd / Military Trail to Boynton Beach Blvd	\$ 72,000
Sanibel Dr / Camino Real to Boca Del Mar	\$ 42,000
Pine Jog Ave / Palmetto Circle S to Elmwood Drive	\$ 41,000
Toledo Rd / Palmetto Park Rd to Palmetto Circle North	\$ 38,000
Pioneer Rd / Lyons Rd to Florida's Turnpike	\$ 36,000
Roebuck Rd / Balmoral Drive to Military Trail	\$ 18,000
Cobblestone Way from Judge Winikoff Road to Ponderosa Dr	\$ 20,000
Collin Drive from Kirk Rd to Davis Rd	\$ 18,000
Mellen Lane from Randolph Siding Road to Indiantown Rd	\$ 60,000
Pioneer Road from Florida's Turnpike to Jog Rd	\$ 75,000
Sandy Run from 129th Place North to Jupiter Farms Rd	\$ 108,000
Seminole Pratt Whitney from SR 80 to Okeechobee Blvd	\$ 115,000
Seminole Pratt Whitney from Okeechobee Blvd to Mayfair Dr E and W (Both sides of Road)	\$ 104,000
Kimberly Blvd/Arizona Ct to Wyoming Ct (S Side) & Tie Ins at South Hampton Pl & Terrace	\$ 59,000
	\$ 2,590,000





FY 2021 Bridge Safety Projects

Bascule Bridge Completed Projects 2021

CR-707 Bascule Bridge:

- Emergency repair of south span lock operator, replaced internal gearbox bearings and bronze drive nut.
- Modified and retrofitted 4-street light fixtures to cobra head LED type.
- West fender system wood walkway and handrail rehab.
- West abutment electrical conduit rack, fabricated and installed chain link barrier to keep kids off high voltage conduits.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

Donald Ross Bascule Bridge:

- Replaced malfunctioning south barrier gate operator gearbox.
- Replaced 6-antiquated hydraulic pump return hoses.
- Coordinated with contractor EHM (Electro machinery hydraulics) with hydraulic fluid test and tank inspection.
- Emergency lighting strike damage repair, with assistance of contractor EHM (Electro machinery hydraulics) we adjusted/repared position inclinometers, replaced damaged PLC input/output card, reprogrammed PLC (Programmable Logic Controller) control circuit parameters.
- Repaired 2 of 6 leaking hydraulic pilot pressure pumps by installing seal kits.
- Fabricated and installed protective weather barriers over 2 large hydraulic power units.
- Coordinated with contractor (General plumbing & AC) with procurement and installation of new bridge house AC system.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.





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FY 2021 Bridge Safety Projects

Ocean Ave. Bascule Bridge:

- Replaced 6-solar navigation light system batteries.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

Woolbright Bascule Bridge:

- Modified and retrofitted 4-street light fixtures to cobra head LED type.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

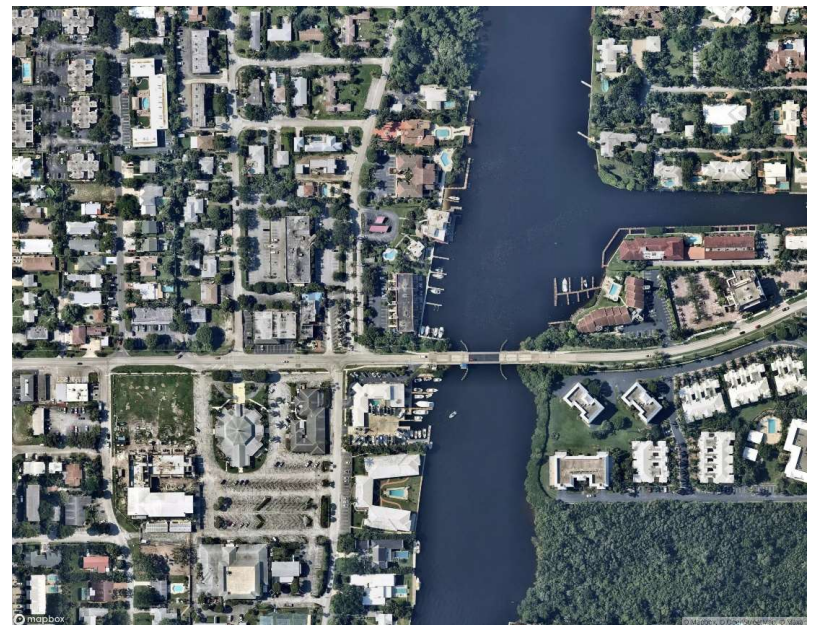
George Bush Blvd. Bascule Bridge:

- Modified and retrofitted 4-street light fixtures to cobra head LED type.
- Coordinated with contractor (LJ Power) to replace/upgrade antiquated stand-by generator transfer switch.
- Coordinated with contractor (General plumbing & AC) with procurement and installation of new bridge house AC system.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

Linton Blvd. Bascule Bridge:

- Replaced antiquated/corroded electrical disconnect switch.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

George Bush Blvd. Bascule Bridge





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FY 2021 Bridge Safety Projects

Palmetto Park Bascule Bridge:

- Replaced control console operation touch screen with assistance from contractor EHM (Electro machinery hydraulics) reprogrammed PLC control circuit parameters.
- Re-routed/replaced buried bridge water service pipe over west parking area to reduce accidental damage.
- Stand-by generator/main electrical control house stabilization project, Completed by contactor Cone & Graham Inc. Engineering completed by WGI.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

Camino Real Bascule Bridge:

- Modified and retrofitted 4-street light fixtures to cobra head LED type.
- Adjusted/shimmed span nose lock guides and receivers.
- Replaced 6-solar navigation light system batteries.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

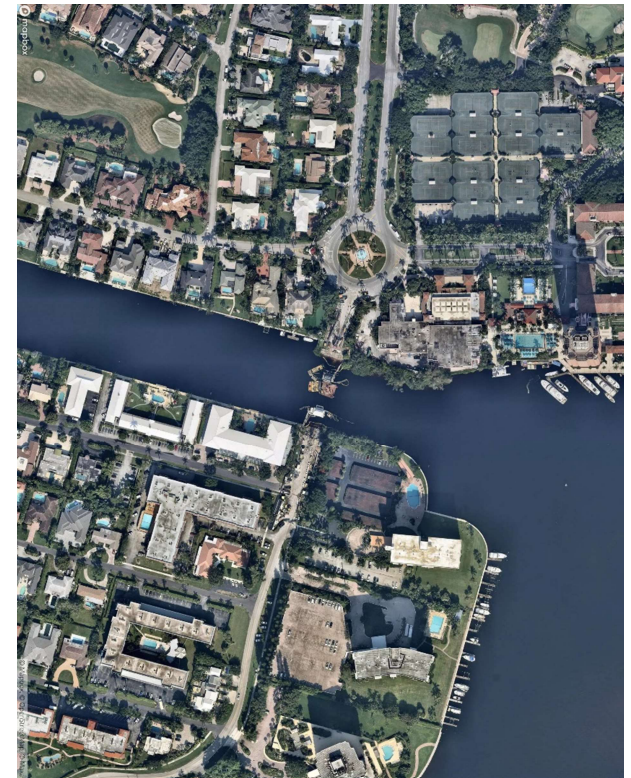
Point Chosen Swing Bridge:

- Replaced 3-solar navigation light system batteries.

L-2 Pump Station:

- Prepped facility for termite/pest tent treatment.
- Stand-by generator 4000 gallon fuel tank, coordinated with contactor (LJ Power) to Polish, filter and install additives.
- Removed 200hp, 6000 lbs. MWI submersible pump with electrical motor, transported to and from manufacture for rebuild. Re-installed pump for service.
- Coordinated with PBC Fire Rescue to procure and install Knox boxes for emergency access to bridge house.

Camino Real Bascule Bridge





Engineering &
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FY 2022 Proposed Bridge Safety Projects

Bascule Bridge Projected Projects 2022

CR-707 Bascule Bridge:

- Replace stand-by generator fuel tank with contractor assistance, LJ Power (procured and in manufacturing process).
- Replace both north and south span lock operators, cushion guides and receivers. (Remanufactured span lock operators, cushion guides and receivers procured, in warehouse).
- East fender system wood walkway and handrail rehab.

Donald Ross Bascule Bridge:

- Fabricate and install 8-external limit switches for new span lock nose actuators (limit switches procured).
- Replace/up-grade span nose lock actuators (2 of 4 actuators procured).
- Change hydraulic system fluid both spans, 1000 gallons (hydraulic fluid test recommended).
- Retrofit/upgrade 100 street light fixtures from 480 volt HPS to LED bulbs (bulbs procured).

Ocean Ave. Bascule Bridge:

- Retrofit/upgrade 28 street light fixtures from HPS to LED bulbs.
- Retrofit/upgrade interior bridge house track light fixtures to LED bulbs.





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FY 2022 Proposed Bridge Safety Projects

George Bush Blvd. Bascule Bridge:

- Upgrade/replace stand-by generator annunciator panel.
- Upgrade/retrofit install 4 - new style machinery brakes.

Linton Blvd. Bascule Bridge:

- Upgrade/Rehab steel span handrail and walkway. (engineered plans)
- Modify and retrofit 14-street light fixtures to cobra head LED type (cobra head retrofit kits procured).
- Upgrade/Replace exterior corroded double steel doors with fiberglass storm rated doors.

Palmetto Park Bascule Bridge:

- Upgrade/Replace 5-sets of exterior bridge house and machinery double doors with fiberglass storm rated doors. (2-sets procured)

L-2 Pump Station:

- Rebuild 2nd of 3 storm water pumps.
- Replace/Install new slide gate actuator. (procured, in warehouse)

Palmetto Park Bascule Bridge:





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FY 2021 Guardrail Projects

- Gator Blvd., Belle Glade: Raised and reset two and a half (2 ½) miles of guardrail and replaced seven end treatments to meet current FDOT Design Standards (\$232,710.75)
- West Palmetto Park Road: Installed 2,450 feet of new guardrail on south side from Lyons Road to Boca Rio Road (\$47,050.00)
- Bridge (PB-934338) Florida Mango Road at LWDD L-8 Canal: Modified existing guardrail for LWDD maintenance access and redirected errant vehicles/ traffic from canal (\$1,194.13)

Guardrail Damage: Before and After views





FY 2022 Proposed Guardrail Projects

- Gator Blvd., Belle Glade: Raise and reset one and a half (1 ½) miles of guardrail and replace end treatments to meet current FDOT Design Standards (\$125,000)
- Pike Road @ LWDD L-4 Canal - Modify existing guardrail for LWDD maintenance access and redirect errant vehicles/ traffic from canal (\$1,500)





Engineering &
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Road & Bridge: Stormwater Section

Section Goal

Operation and maintenance of County stormwater road conveyances, swales, ditches and supporting infrastructure.

Equipment & Staff

- CCTV Van: Operated by MEO IV Operator & MEO II Assistant
- Pathway Sweepers: Operated by MEO II Operators
- Street Sweepers: Operated by MEO IV Operators
- Vactor Trucks: Operated by MEO III Operators & MEO II Assistants
- Menzi Muck: Operated by MEO IV Operators
- Storm-water Team leaders: PW Crew Chief and PW Supervisor
- There are currently (16) active storm-water positions and (27) pieces of equipment/vehicles.

CCTV Van & Street Sweeper Vehicle Graphic Wraps: Designed through Champion 4 Group





2021 STORMWATER UPDATE

2021 Stormwater Accomplishments

- Interactive dashboard developed to track Road and Bridge mapping while performing maintenance operations
- Developed data model consisting of 29 layers with 3 datasets
- 1000+ road plans identified to be rectified



Road and Bridge Camera Truck Mapping Dashboard

2022 Stormwater Program Outlook

- First statewide 20 year stormwater needs report per FS 403.9302 due July 31, 2022
- \$11M ARPA funds allowing Engineering to implement stormwater improvement projects countywide over the next 5 years.



Example ARPA Funded Stormwater Improvement Projects

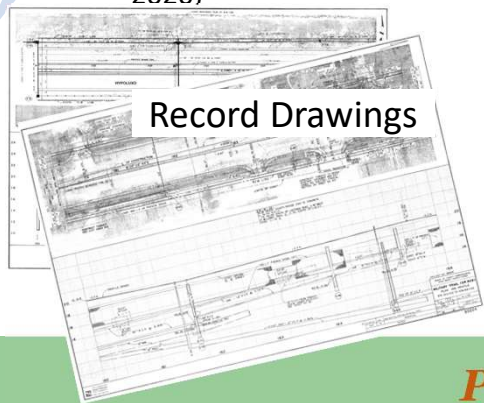
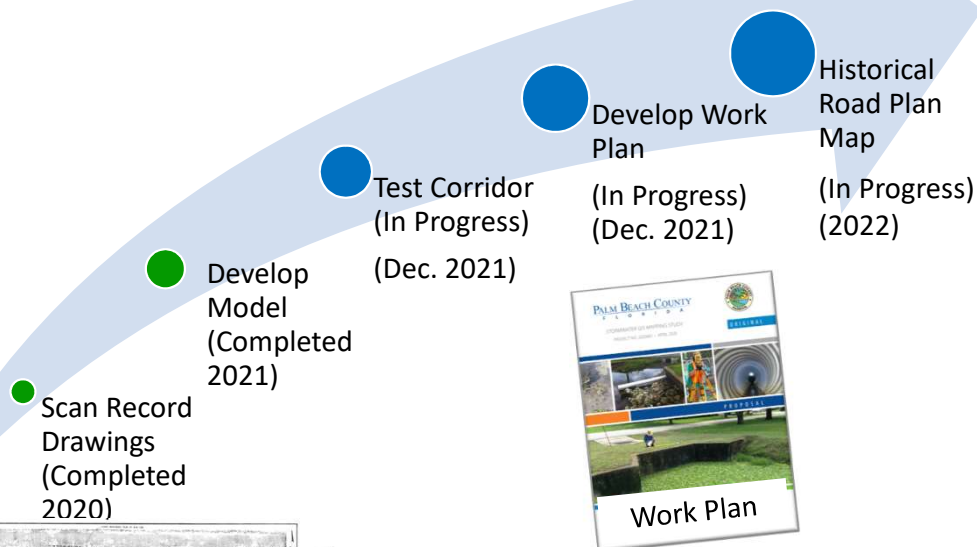
Protecting our Natural Resources One Drain at a Time



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2021 STORMWATER MAPPING UPDATE

Stormwater Infrastructure Mapping



Future Stormwater Mapping Tasks

Map Stormwater
Infrastructure
based on Record
Drawings

Use field staff to
fill gaps in
records

Publish Map



Stormwater GIS
database

Stormwater Map

Meet MS4 Permit
requirements &
objectives

Locate Request

Permit Review

Hazmat Response

Construction Site
Runoff Control

Public Education
and Outreach

Pollution
Prevention/Good
Housekeeping

Total Maximum
Daily Loads

Protecting our Natural Resources One Drain at a Time



Palm Beach County

The Best of Everything.

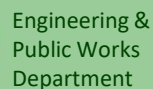
Questions ?



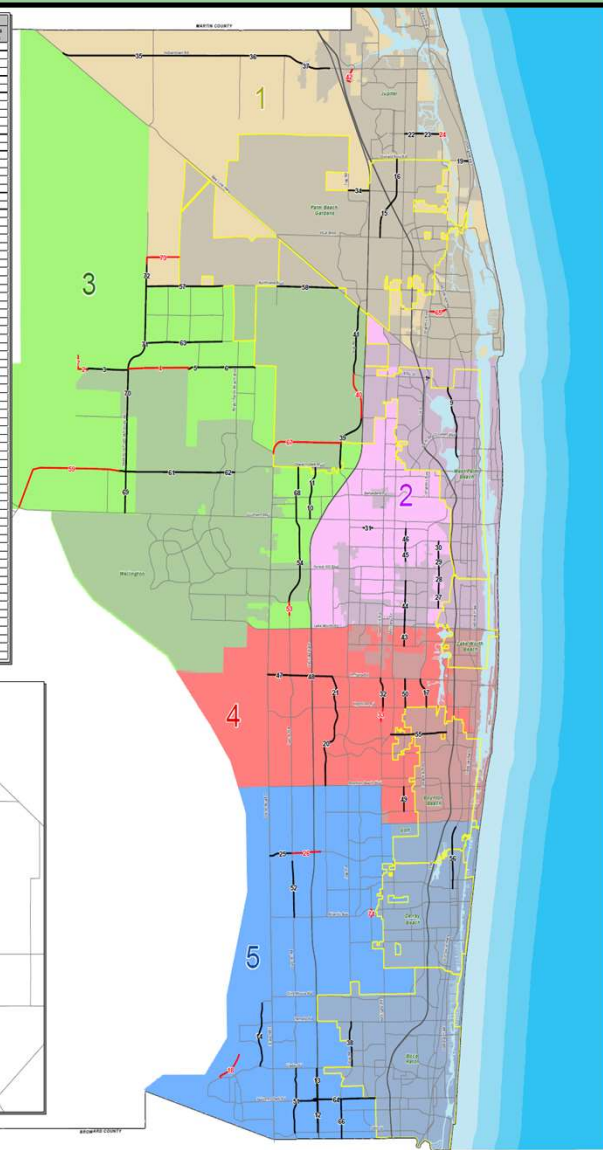
AVERAGE TIMELINES

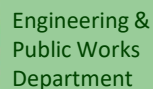
BID OPENING TO BCC CONTRACT APPROVAL

	Engineering							
		Receive bids, create summary, verify					10	days
	OEBO							
		Compliance review					16	days
	Engineering							
		Prepare bid list, make recommendation, note disqualifications, post list and protest period					9	days
	Engineering							
		Draft contract, issue intent to award					8	days
	Contractor							
		Provide contact documentation					20	days
	Engineering							
		Process contractor documents, prepare BCC agenda item					19	days
	Legal							
		Review BCC agenda item					21	days
	Engineering							
		Finalizes BCC agenda item					14	days
	County Administration							
		Approves BCC Agenda Item					60	days
	AVERAGE TIME FROM BID OPENING TO BCC CONTRACT APPROVAL						177	DAYS



ESTIMATED PROJECT
COSTS \$854 M





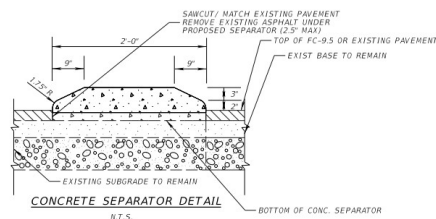
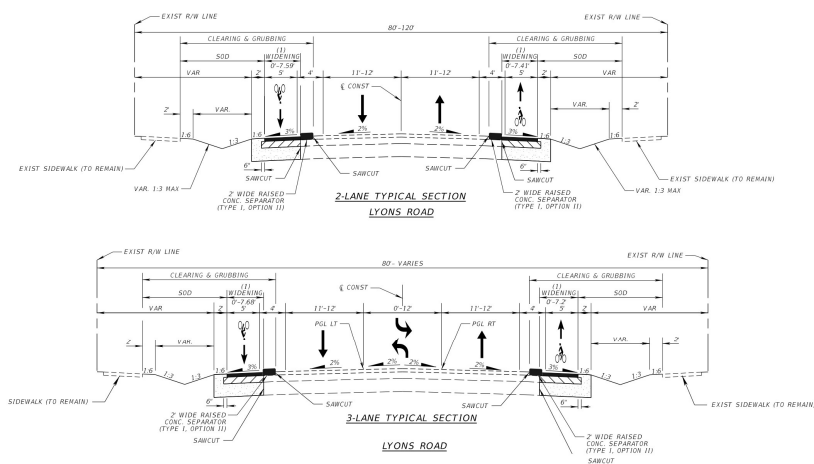
Estimated to be over
\$1 Billion





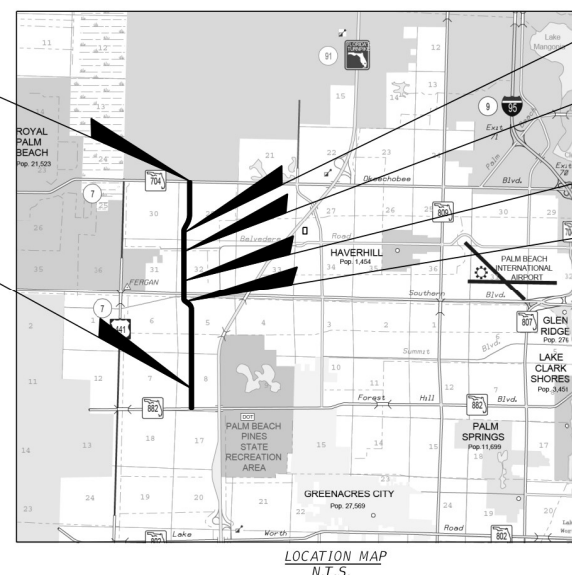
Engineering &
Public Works
Department

LYONS RD / SANSBURY'S WAY SEPARATED BIKE LANES



END PROJECT
STA. 516+76.00

BEGIN PROJECT
STA. 315+82.00

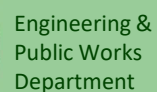


END EXCEPTION
STA. 458+07.28

BEGIN EXCEPTION
STA. 440+30.77

END EXCEPTION
STA. 423+68.51

BEGIN EXCEPTION
STA. 398+05.95





Engineering &
Public Works
Department

LYONS RD / SANSBURY'S WAY SEPARATED BIKE LANES – SUPPORT LETTERS

February 27, 2018

Mr. Motasem Al-Turk, Ph.D., P.E.
Manager, Traffic Engineering Operations

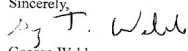
Re: Proposed Separated Bike Lanes – Sansbury's Way/Lyons Rd. (Forest Hill – Okeechobee)

Dear Mr. Al-Turk:

My back yard abuts Sansbury's Way, south of Okeechobee Boulevard. This letter is to express my support for the potential project described in your January 2018 letter. A separated bike lane project makes great sense in this corridor, given the continuity of Lyons Road and the limited number of conflicts from driveways or intersecting streets for this five mile segment. In addition, the project is proposed to use only the existing right-of-way – which is also a positive.

I do have a request for the County. The section of Sansbury's, south of the Thousand Pines entrance has a large number of trees (primarily palms) on the west side. I assume most of the widening for this project will have to be on the west side in this area, as there is no right-of-way available on east side north of the development entrance. I would like the County to try and replant/replace the palms that would have to be removed to accommodate the project – with the replanting happening in the remaining right-of-way on the west side. The County park property, with a nice landscape border, sits on the east side, and this new project and the replanting will co-exist nicely with the County park.

Thank you for the opportunity to comment.

Sincerely,

George Webb
8803 Thousand Pines Circle

Member Thousand Pines HOA Board of Directors


Buena Vida Homeowner's Association, Inc.
1961 Via Buena Vida, Wellington, FL 33411
Phone (561) 422-9191 Fax (561) 422-9860

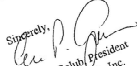
February 12, 2018
Department of Engineering and Public Works
P.O. Box 21229
West Palm Beach, FL 33416-1229

Dear Motasem Al-Turk,

Thank you for reaching out to the Board of Directors of Buena Vida HOA, Inc. regarding CONSTRUCTION OF SEPARATED BIKE LANES – LYONS ROAD/SANSBURY WAY - FROM FOREST HILL BOULEVARD TO OKEECHOBEE BOULEVARD.

It is with pleasure that the Board is responding in support of such an important project for our community and our neighbors. Most certainly the enhancement of safety for bike riders in our very active area is of great value to the Board and our residents.

We wish the Department of Engineering and Public Works much success with this worthwhile project.

Sincerely,

Eliot P. Golohy, President
Buena Vida HOA, Inc.

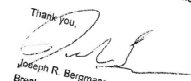
February 14, 2018
Motasem Al-Turk, Ph.D., P.E.
Department of Engineering and Public Works
P.O. Box 21229
West Palm Beach FL 33416-1229


BREAKERS WEST ASSOCIATION, INC.
Website: www.breakerswesthoa.com

RE: LYONS ROAD/SANSBURY'S WAY-FROM FOREST HILL BLVD. TO OKEECHOBEE BLVD.
CONSTRUCTION OF SEPARATED BIKE LANES

Dear Motasem,

Breakers West Association is very much in support of bike lanes being constructed along Sansbury's Way. The location of the lanes would enhance the aesthetics along Sansbury's which borders the east side of Breakers West. In addition, the bike route would allow a safer route to the proposed Palm Beach County Park located between Kings Academy and Thousand Pines, on Sansbury's Way.

Thank you,

Jordan R. Bergmann
Breakers West Association Inc. President

937 DICKENS PLACE • WEST PALM BEACH, FL 33411 • (561) 780-0016 • FAX (561) 780-0570



Engineering &
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Department

LYONS RD / SANSBURY'S WAY SEPARATED BIKE LANES – EXAMPLES

