



Palm Beach Transportation Planning Agency (TPA)

Tea on Transportation

October 30, 2024

About the TPA



Plan & Prioritize
Federal & State Transportation Funds



Three Advisory Committees:
Technical, Citizens, and Vision Zero



Governing Board of 21
local elected officials



16 staff



Vision: A safe, efficient and connected multimodal transportation system.



Transportation Planning Area

Roadway Miles

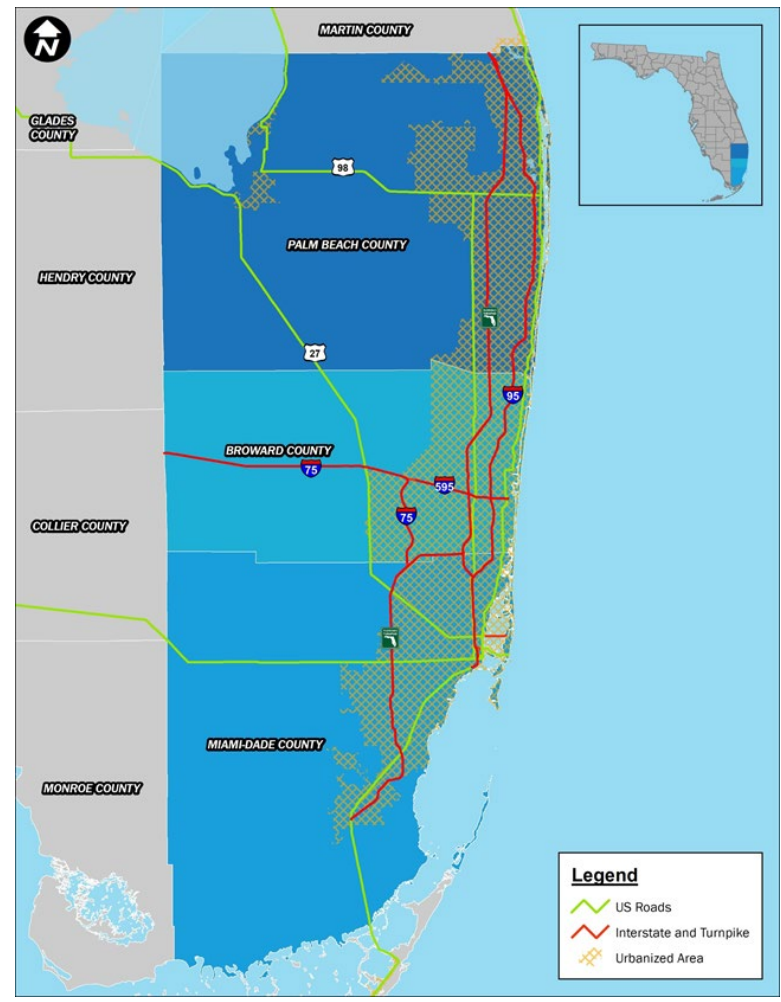
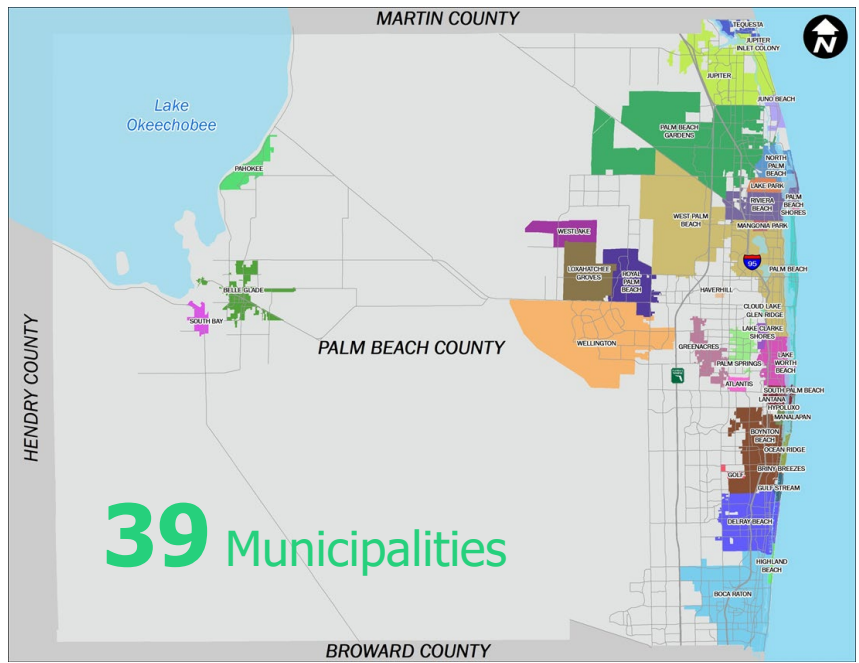
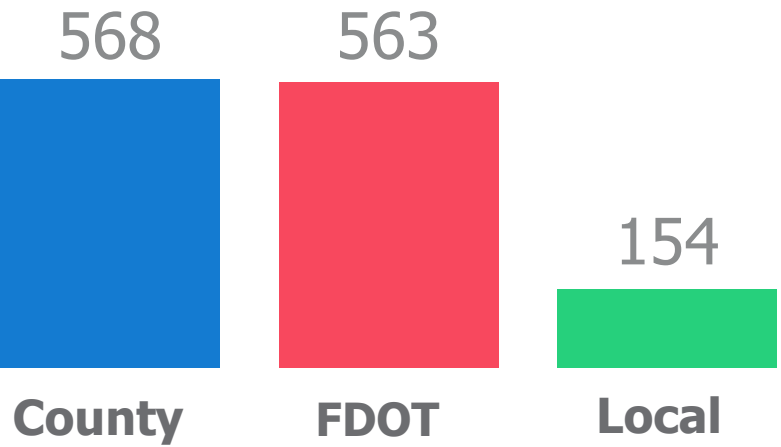
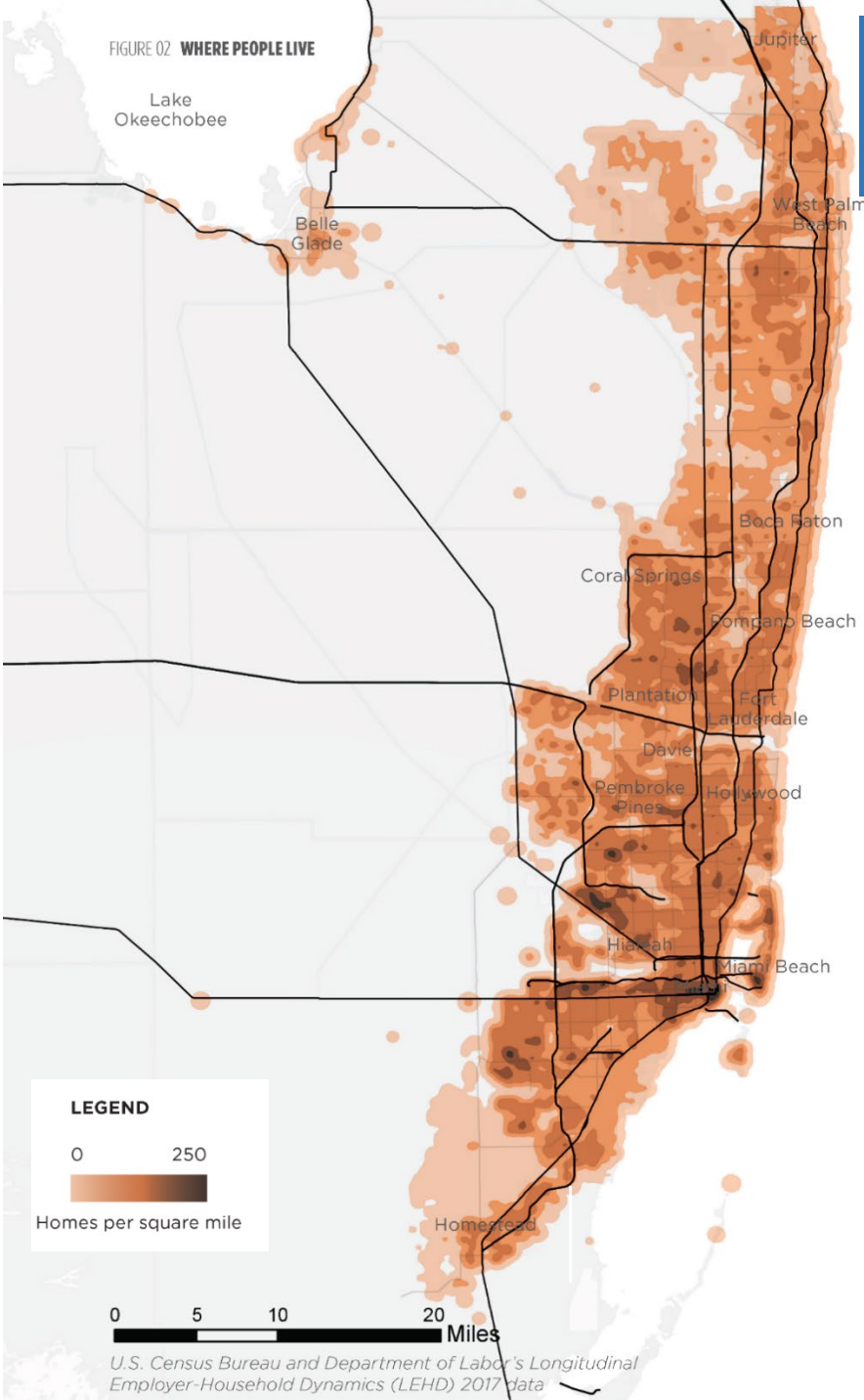
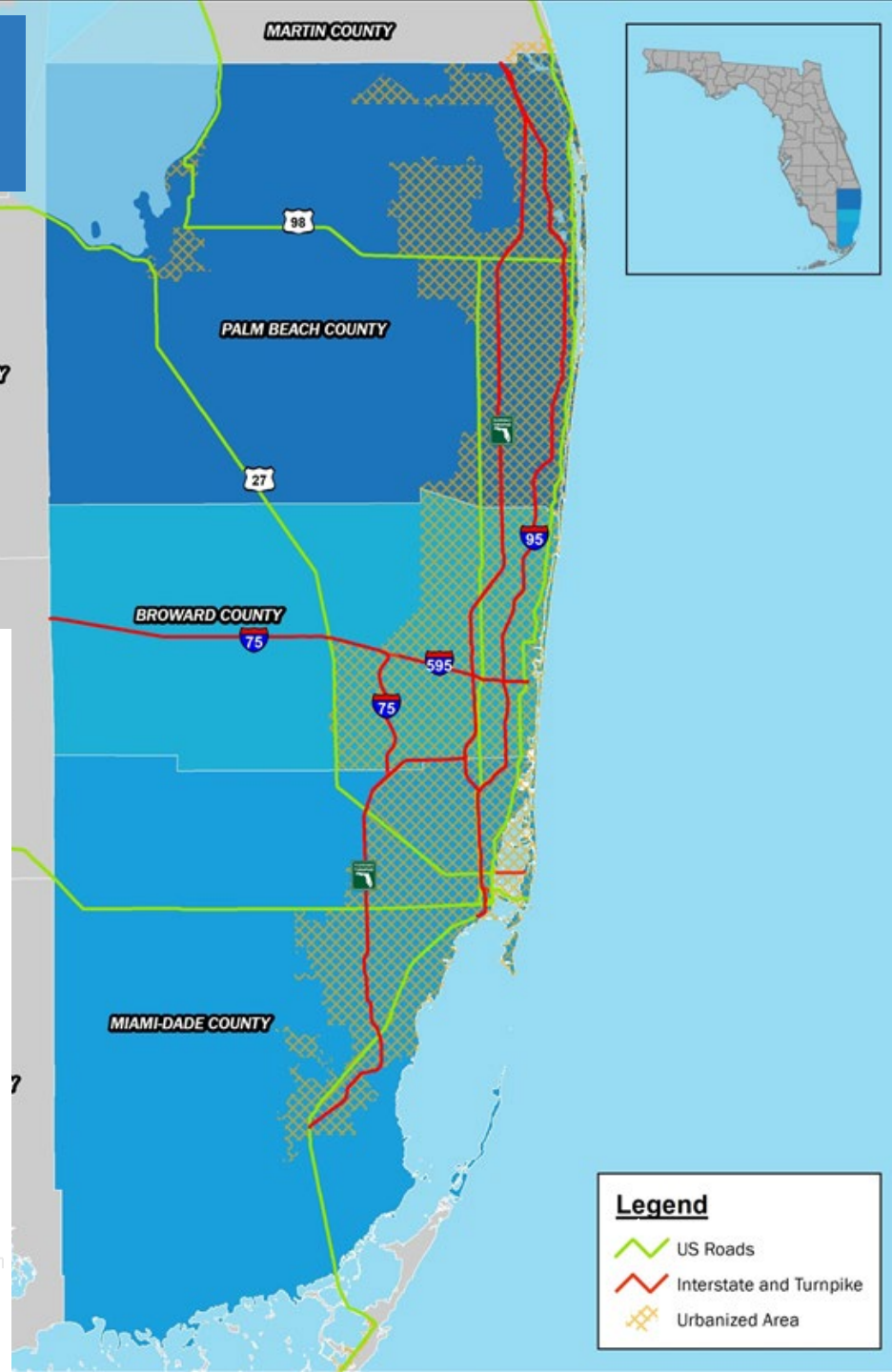
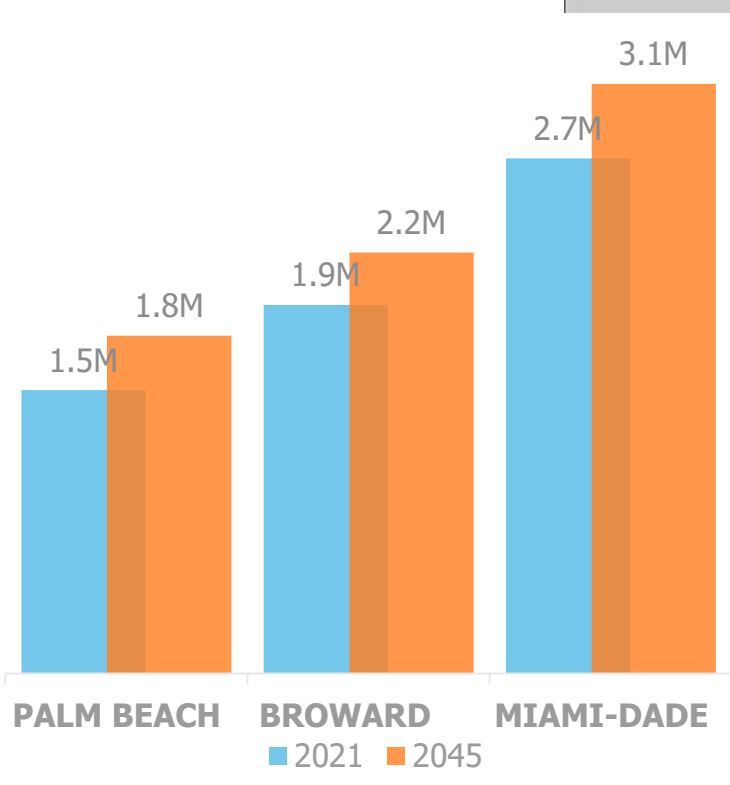


FIGURE 02 WHERE PEOPLE LIVE



Our Region



Transportation Planning Process



Establish goals and objectives



Determine transportation needs



Establish priorities



Program and fund implementation

VISION 2050

Long Range Transportation Plan

Transportation Funding
\$3.36 Billion Fed/State/Turnpike
5 Year Work Program



Sample Survey Results

Top Priorities

	Random Sample Survey	TPA Survey
Providing more housing that is affordable	26%	24%
Managing the county's growth & development	11%	28%

Highest Transportation Priorities

- 1 Addressing Traffic Congestion
- 2 Expanding service for people who are economically disadvantaged
- 3 Improving Traffic Safety

Challenges



Safety

8 deaths & 49 serious injuries daily on Florida roads



Housing Affordability

37% of income spent on **housing** in Palm Beach County



System Reliability

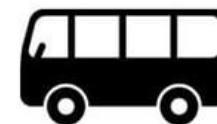
23% of income spent on **transportation** in Palm Beach County

Transportation Priorities

Complete Streets - safe access for transportation users of all ages and abilities

Vision Zero - commitment to vision zero traffic-related fatalities and serious injuries

Mode Shift - Grow walking, bicycling, transit, and telecommuting to maximize efficiency, increase safe access, and enhance prosperity & quality of life



Types of Bicyclists



STRONG & FEARLESS

I'll ride anywhere!

7%



ENTHUSED & CONFIDENT

I'll ride in the road if there's space between me and the cars.

5%



INTERESTED, BUT CONCERNED

I need a barrier between me and the cars.

51%



NO WAY, NO HOW

You will never see me on a bicycle!

37%



Lake Worth Rd. rendering

- ✓ Wider Sidewalks
- ✓ New Crosswalks
- ✓ Transit Shelters
- ✓ Separated Bike Lanes
- ✓ Level Boarding
- ✓ Access Management
- ✓ Travel Lane Size







Welcome to Dillman Trail

Trail open from Sunrise to 10:00 p.m. (City Code Chapter 11)

All pets must be leashed (City Code Chapter 3)

Owners must clean up after their pet (City Code Chapter 3)

Drug Free zone (Florida Statute 893)

No swimming, alligators may be present.

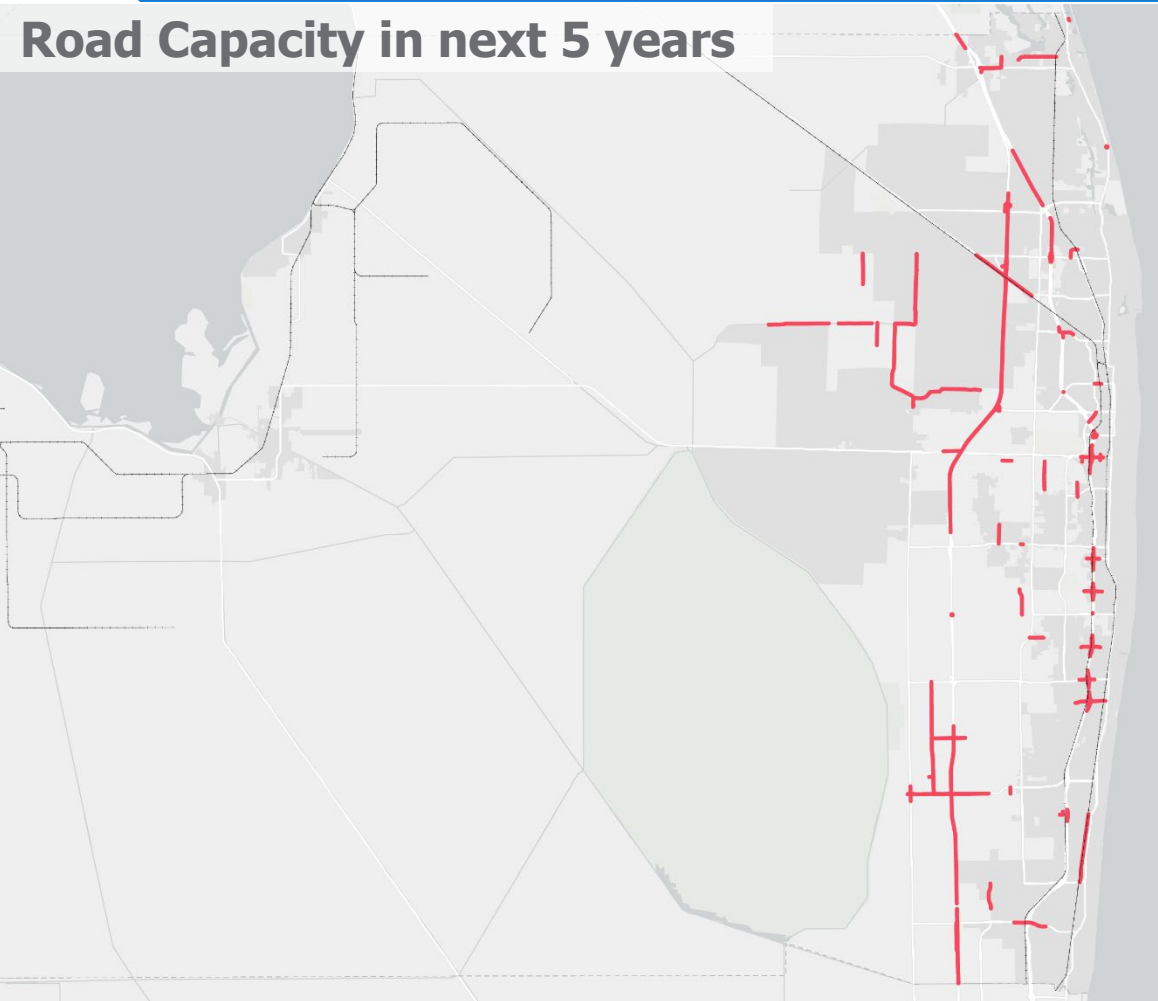
No motorized vehicles, authorized vehicles only.





Today...

Road Capacity in next 5 years



Okeechobee Blvd today

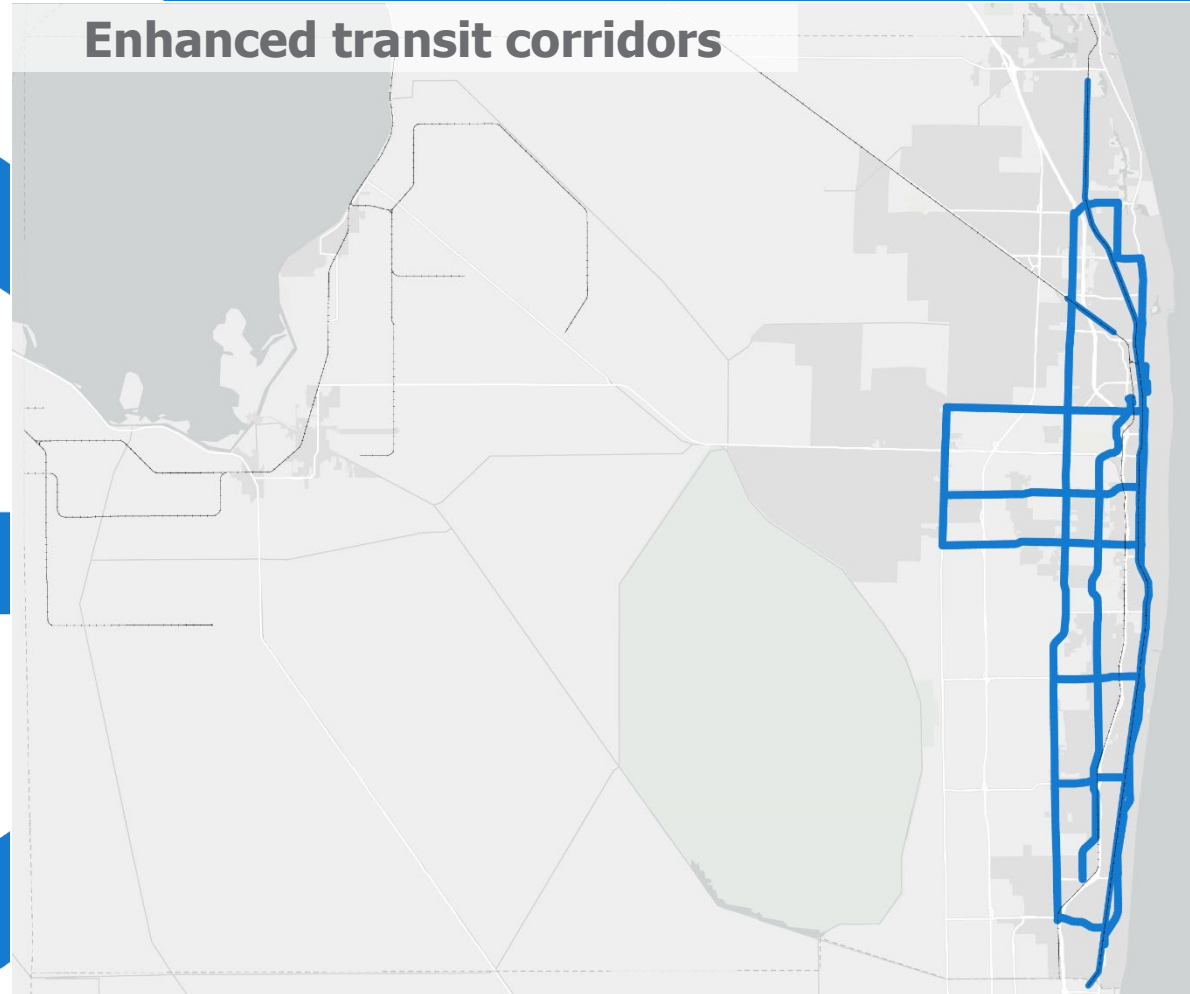


- Built-out roadway network
- Prioritizes vehicle speed
- **\$1.7 Billion** in roadway capacity for next 5 years

- **977 lives** lost in the past 5 years
- Growing congestion

Future...

Enhanced transit corridors



Okeechobee Blvd in 2035? 2050?



- Invest in moving people/goods differently
- Prioritize safety & convenience for everyone

- Transportation & land use connection
- Tradeoffs

Why a Multimodal Corridor Study?

2045 TPA Long Range
Transportation Plan

Palm Tran Transit
Development Plan

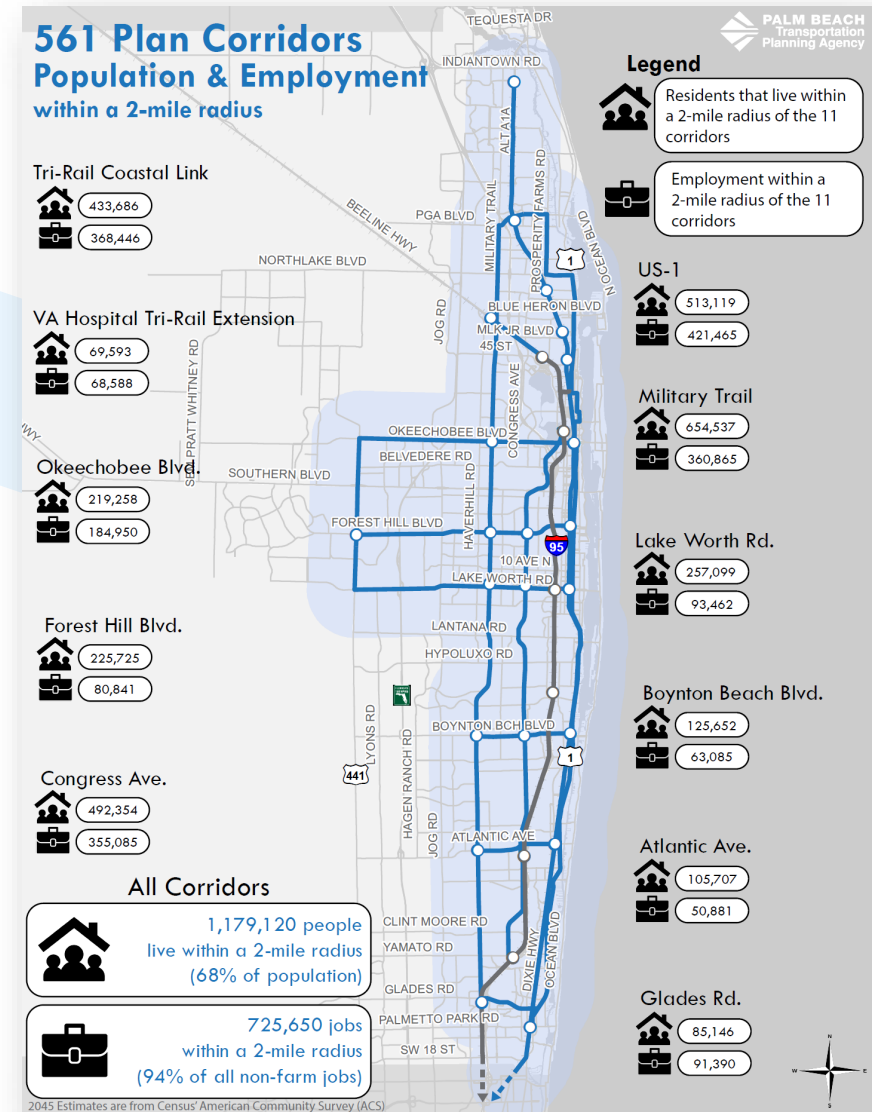
→ **561 Plan
Corridors**

In 2045, these corridors will account for...

94% of all non-farm jobs

And within 2 miles of these corridors...

68% of the population



Alternatives Based in Multimodal Lens



No Build /
No Change



Mixed Traffic Bus
w/ Limited Stops



Business Access and
Transit Curbside Lanes



Curbside Bus
Rapid Transit



Center Platform Bus
Rapid Transit

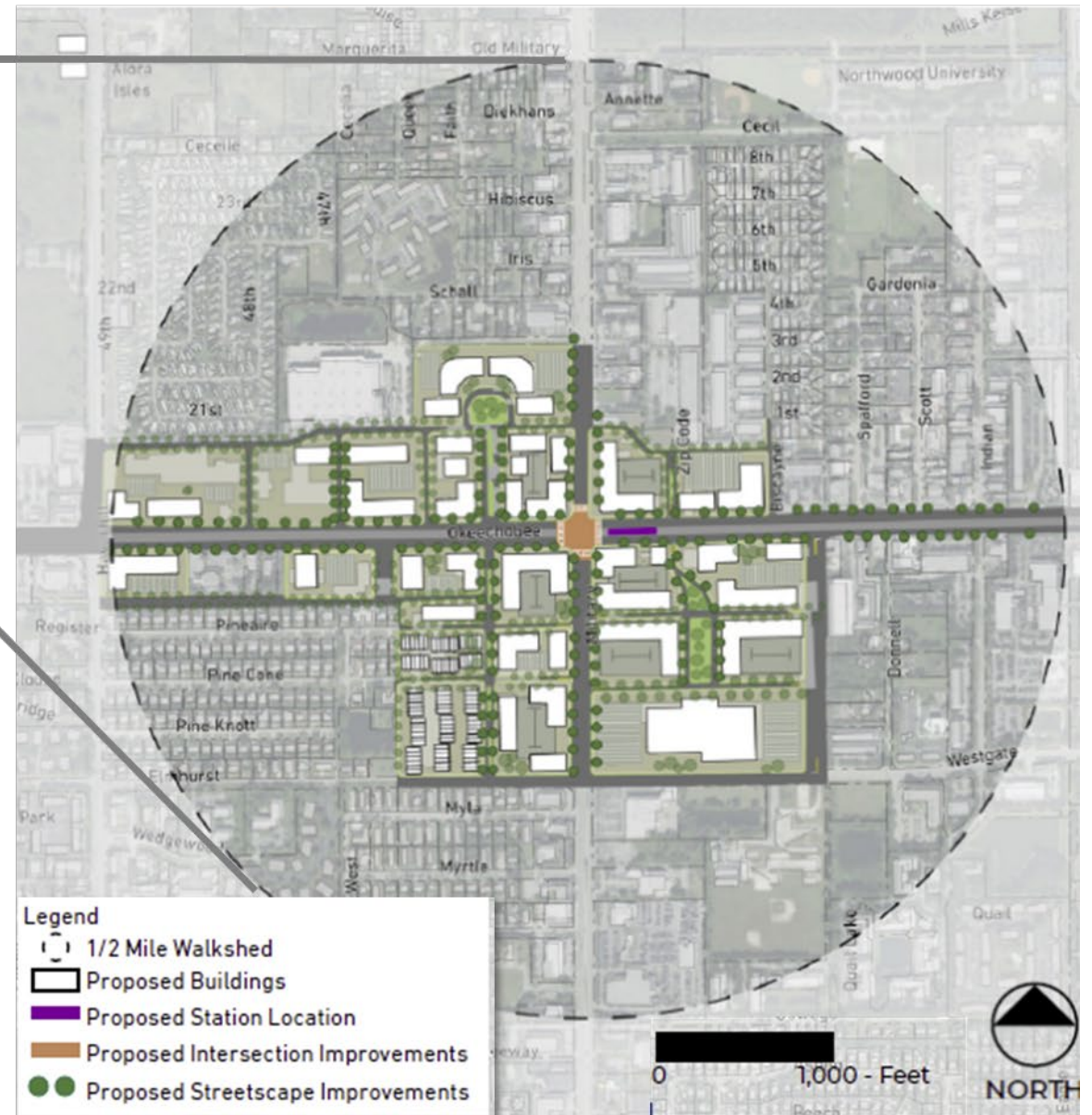
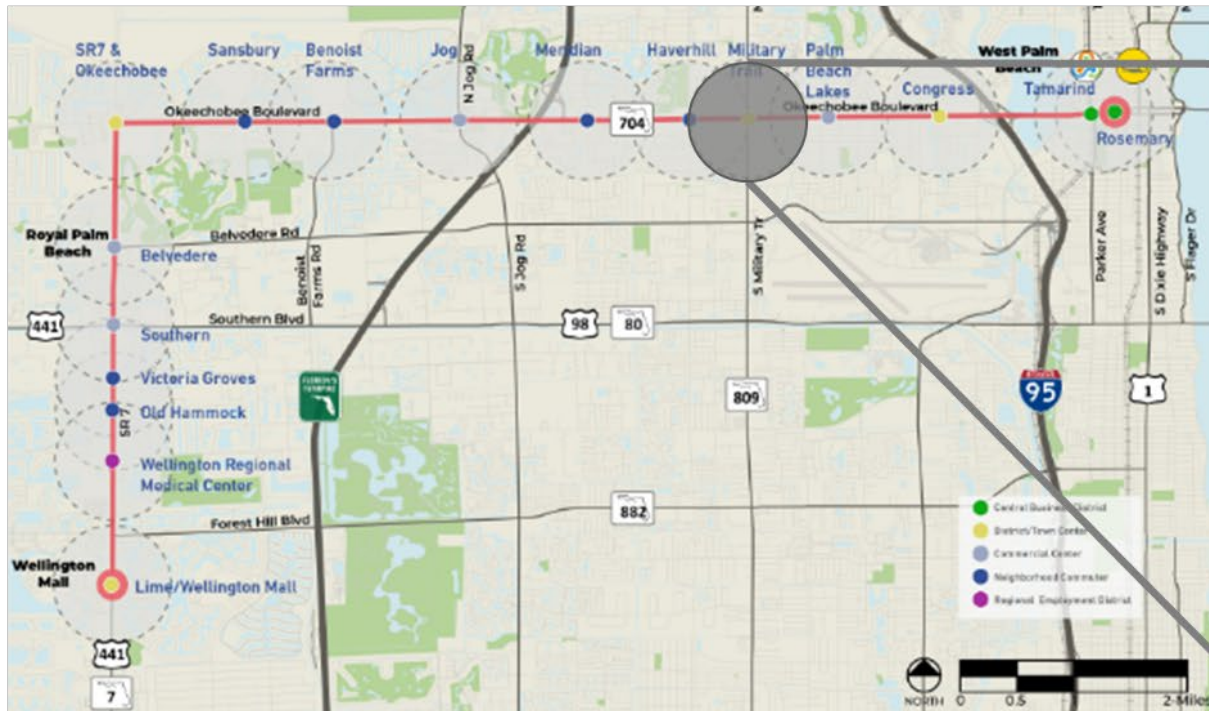


Center Platform Dedicated-
Lane Light Rail (LRT)



Elevated Rail

Station Area Planning – Military Trail



1,100
Potential New Homes



13,200
Potential New Jobs



76
New Affordable Units
(based on AMI assumptions)



\$647 million
Additional ad valorem



Military Trail Station Area



Military Trail Station Area



Wellington Mall Station Area

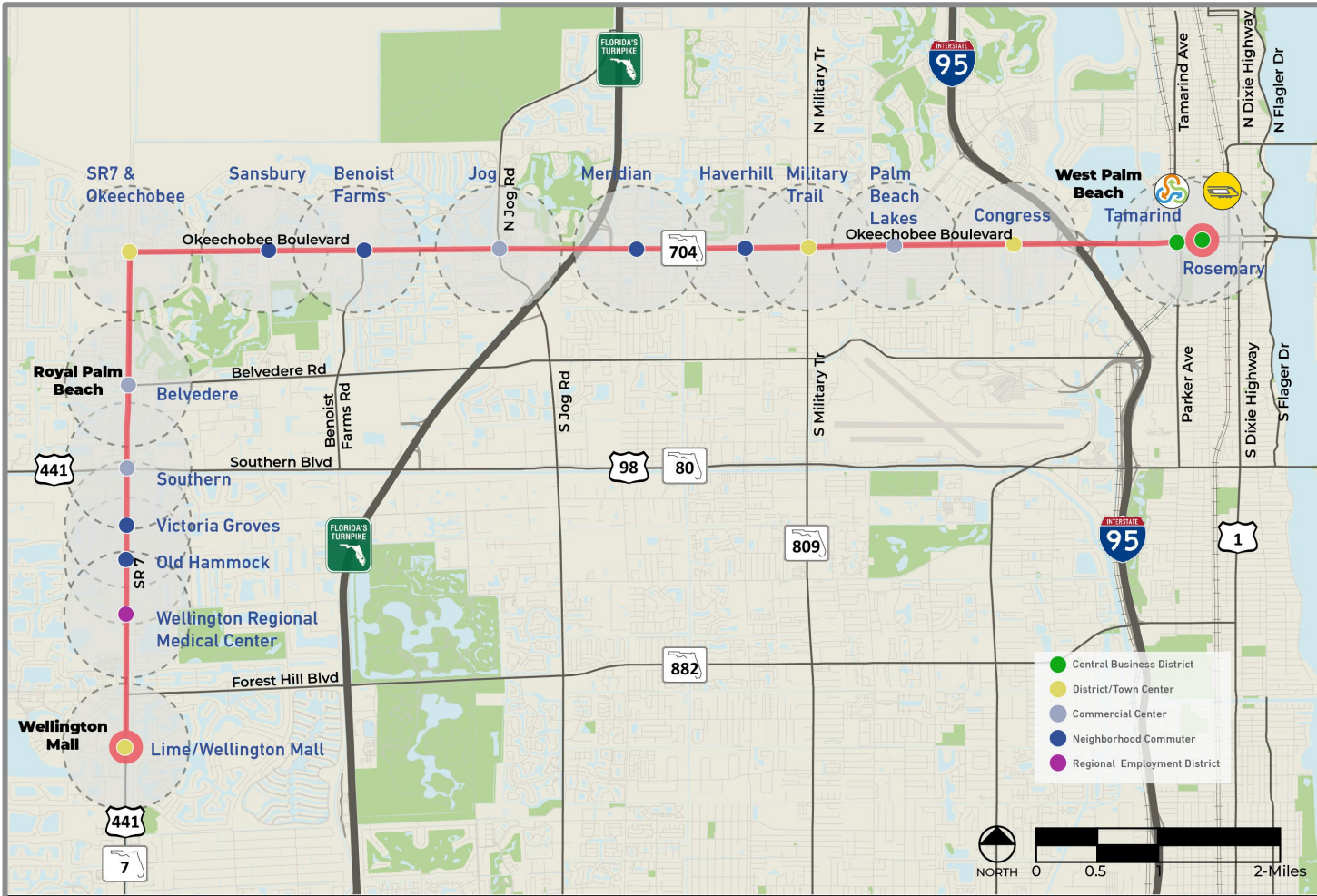




Wellington Mall Station Area



Potential for Okeechobee Blvd and SR 7?



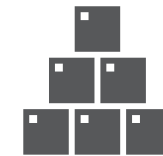
17K
Market



1.2K
Affordable



72K
Jobs



15M
Sq Ft.



40K
Parking



10B
Ad Valorem

Learn More & Get Involved

Resources:

PalmBeachTPA.org/Resources

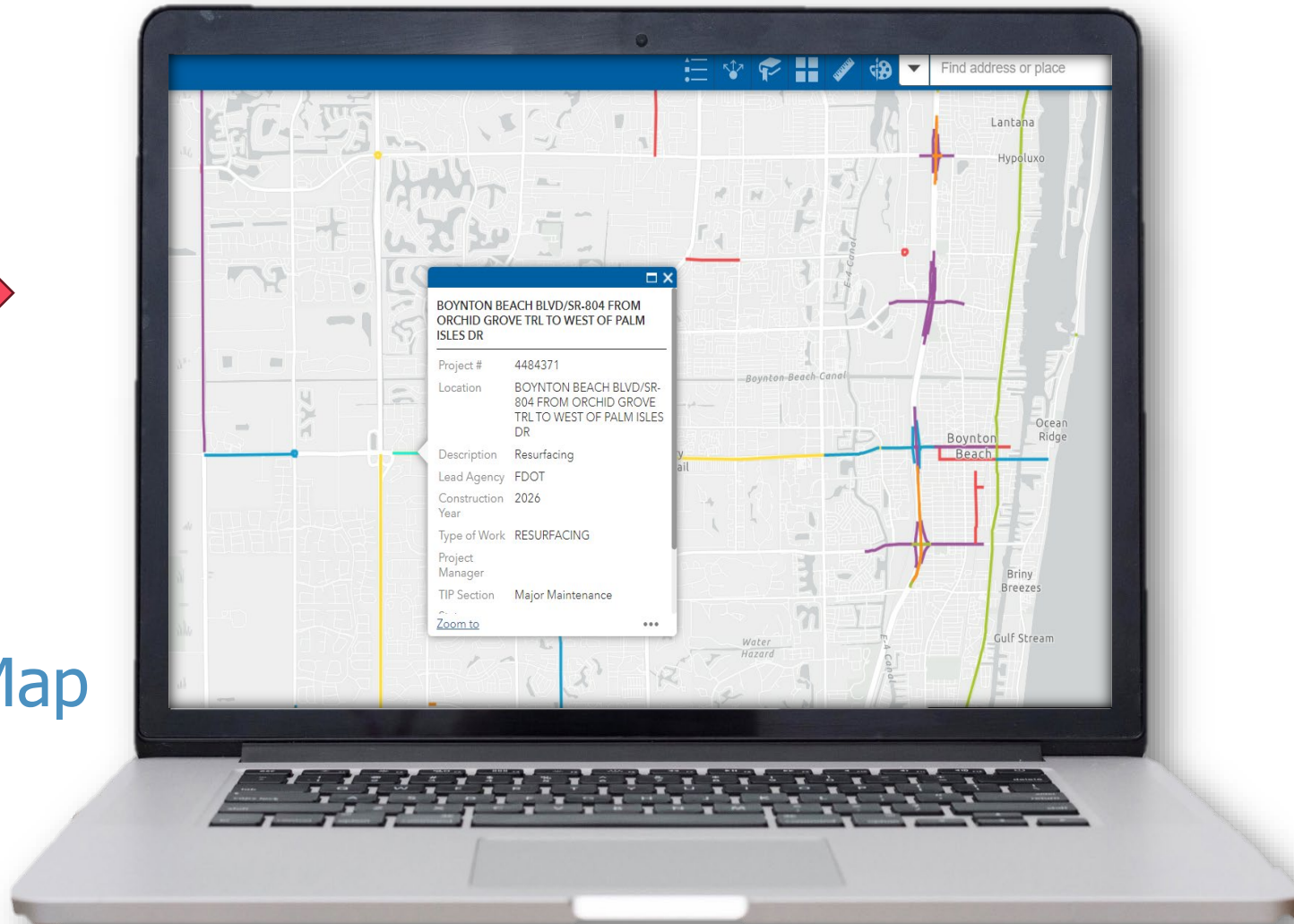
Interactive Map:



PalmBeachTPA.org/Map

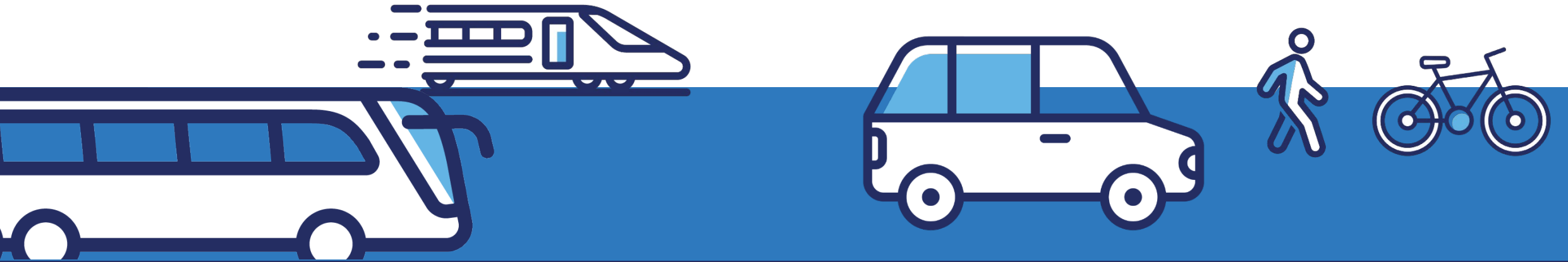
Comment Map:

PalmBeachTPA.org/Comment-Map



Thank you!

PalmBeachTPA.org





The Tea on Transportation

Ivan Maldonado, Executive Director – October, 2024



We provide access to opportunity for everyone safely, efficiently and courteously.



Overview Of Services



150 Vehicles - \$2.00 fare



300 Vehicles - \$3.50 fare



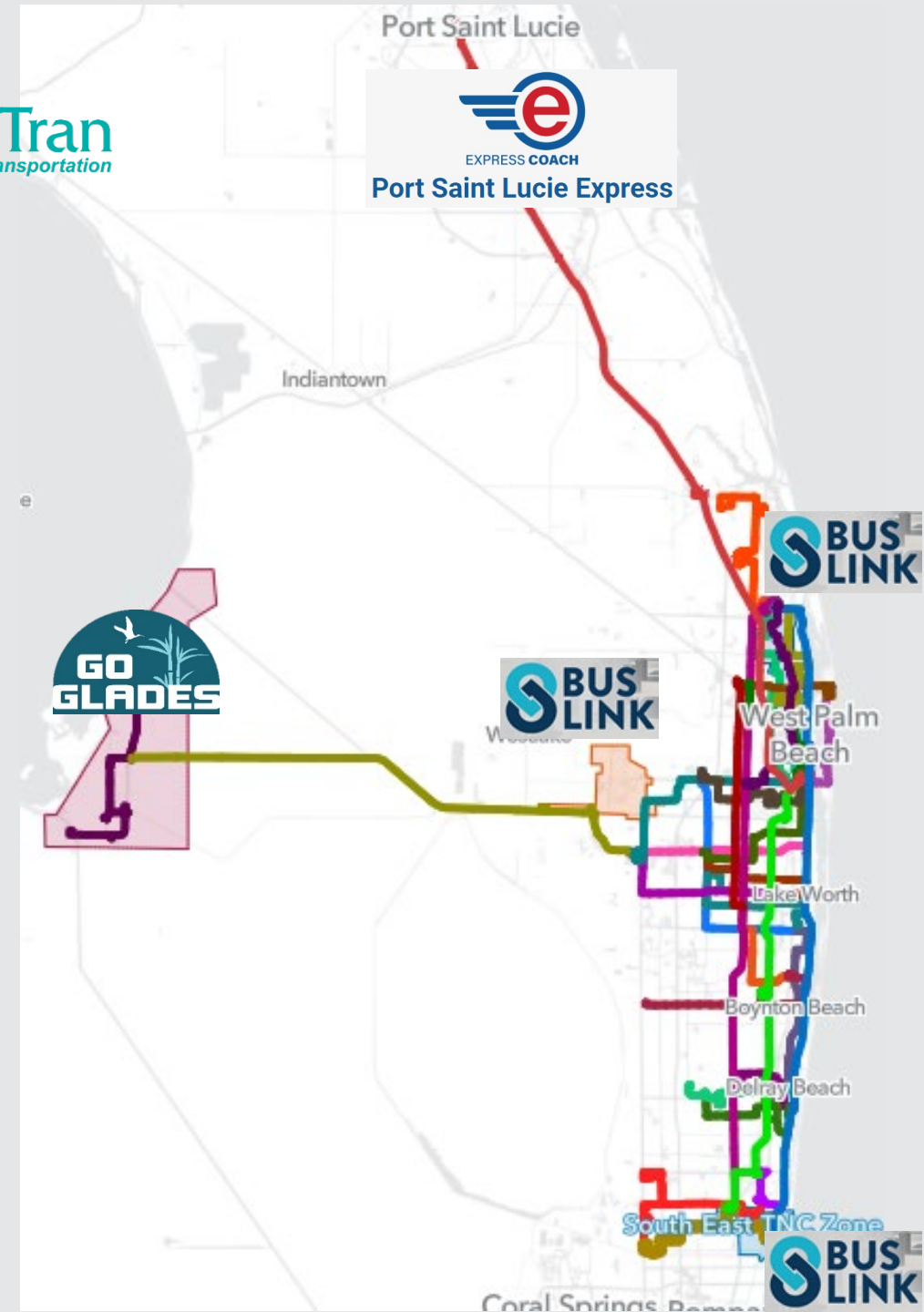
10 Vehicles - \$2.00 fare



3 Vehicles - \$3.00 fare



Voucher - \$8.00



Numbers at a Glance

By land area, Palm Beach is the largest county in Florida and 9th largest county east of the Mississippi River.

More than 1.5 million residents call Palm Beach County home, making it the 3rd most populous county in the state.



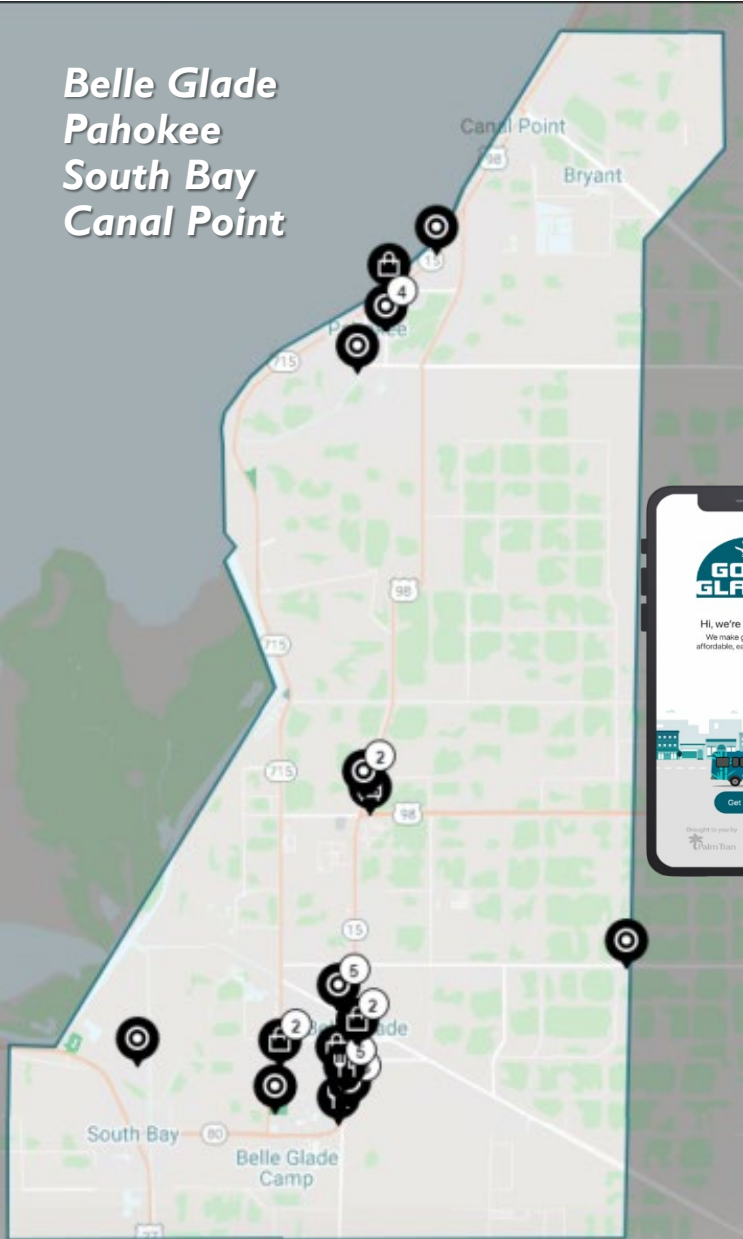
TOTAL WEBSITE VISITS



SOCIAL FOLLOWERS



Go Glades Service Description



On-demand service providing access to opportunity

 **Seven days a week**

Monday – Friday
5 AM to 9 PM

Saturday
7 AM to 9 PM

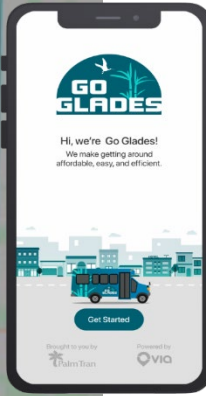
 **\$2 per trip (One-Way Ride)**

Sunday
8 AM to 8 PM

 **Book on web, phone, app**



All pass holders ride at no additional cost!

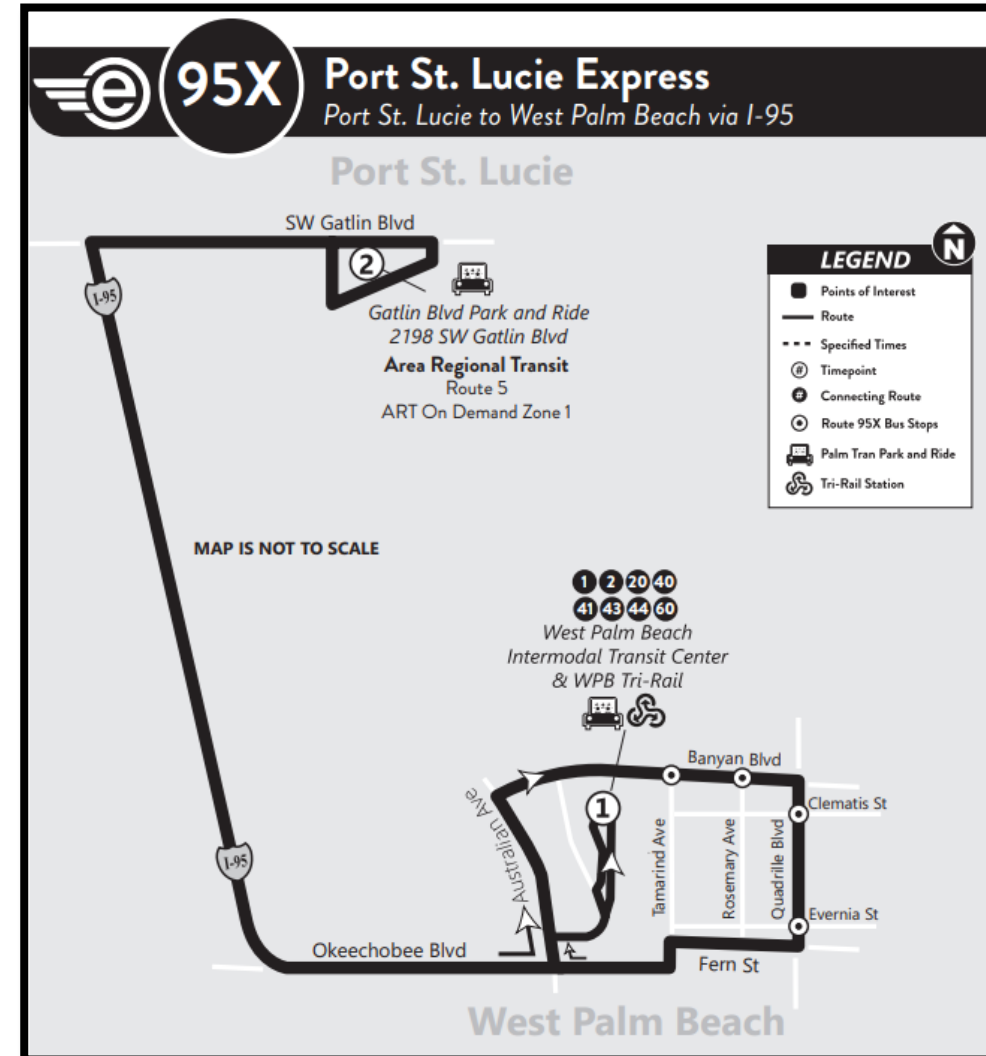


**Get around
the Glades,
easily and
affordably!**

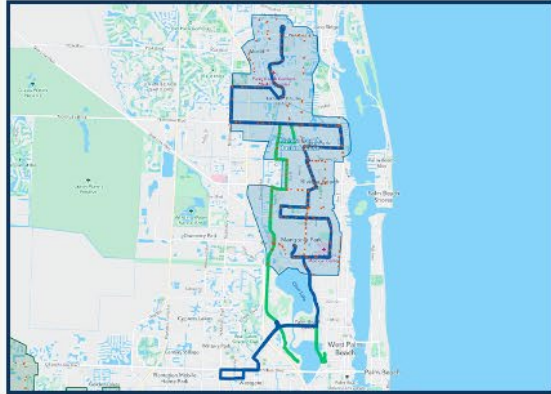
Housing & Transportation



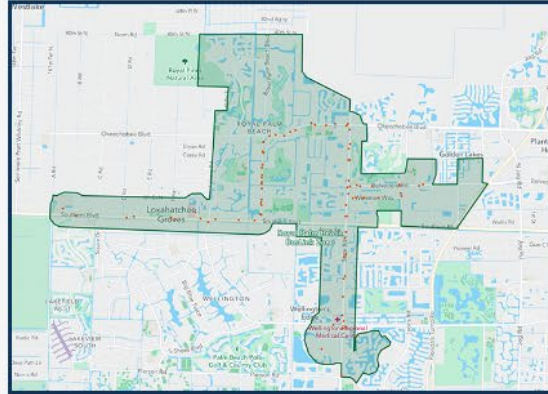
- **Avg. Daily Ridership: 38**
- **Total Boardings: 507**



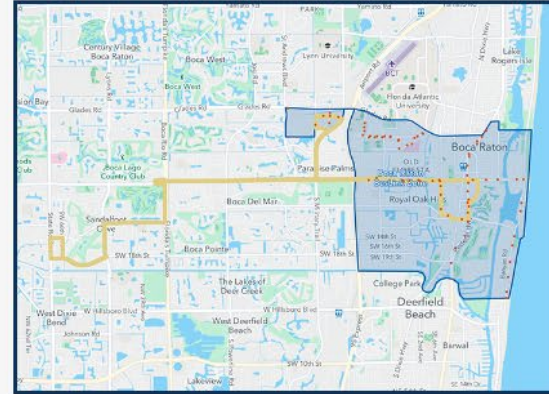
Routes 21, 52, and segments of 92 will no longer be served starting September 22, 2024. See the zones below and the newly aligned routes.



21 Riviera Beach



52 Royal Palm Beach



92 Boca Raton

- **Avg. Ride-Cost: \$7**
- **Ridership: >2000 rides**

Fixed Route Reinvestments - Average Daily Boardings Sep.-Oct. 2023 vs. 2024

Route	2023	2024	Pct Chg
3	2753	3231	17.3%
10	171	189	10.3%
33	504	666	32.2%
40	396	493	24.6%

Bus Stop Improvement Plan (5 Years)



250 New Shelters

100 Replacement Shelters

Real Time Info Screens

Solar Lighting

1000 ADA Improvements



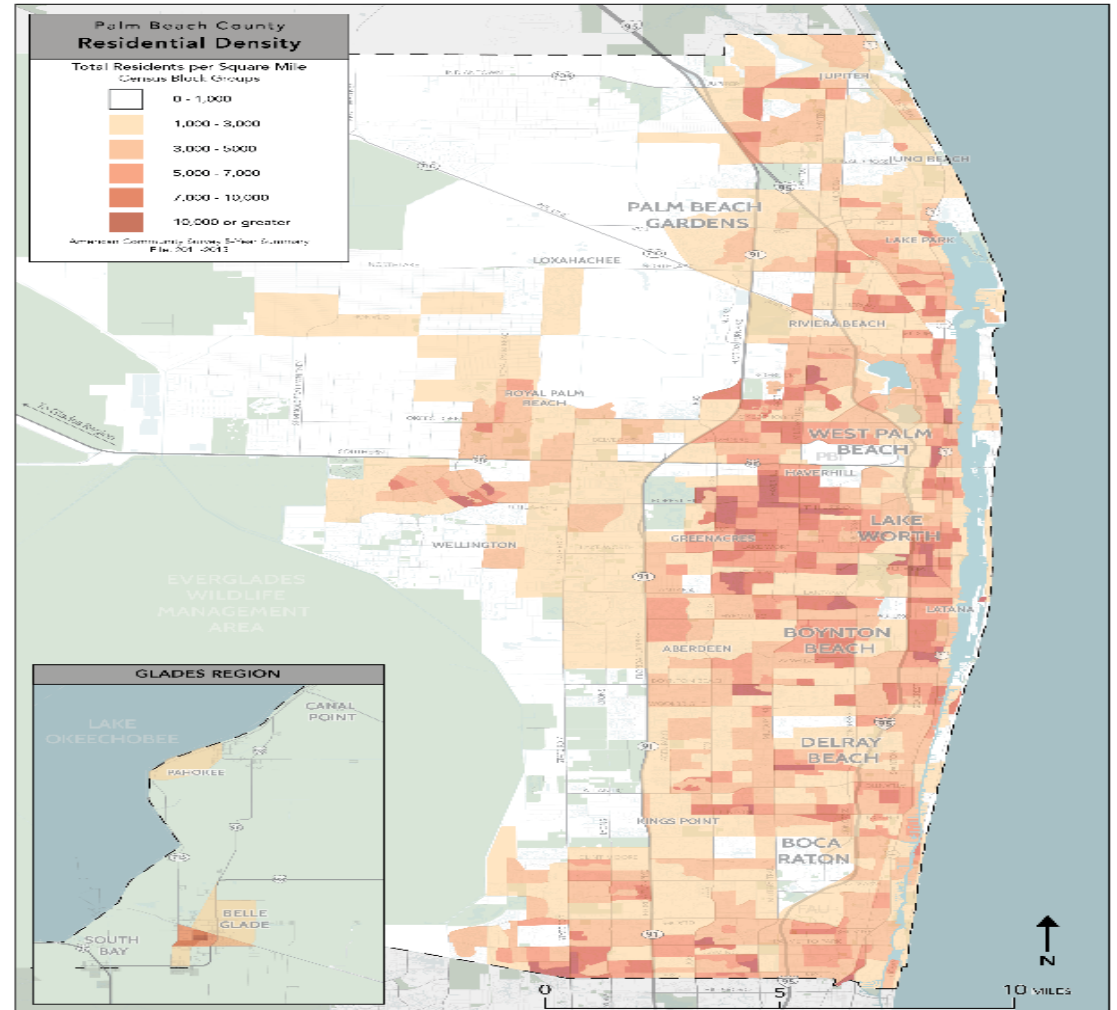
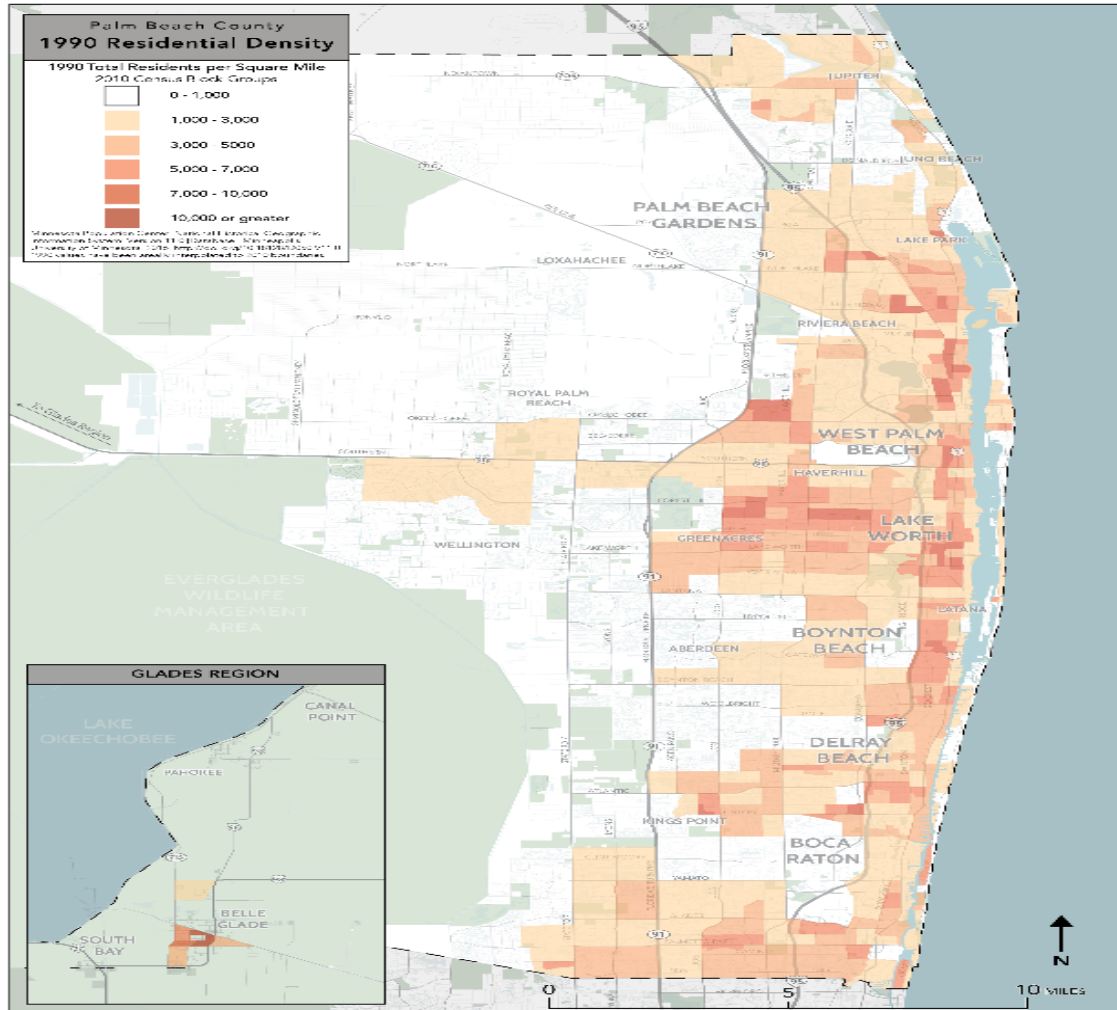
Bus Stop Accessibility Study and Transition Plan

08/19/2024





Population Density



Route Performance MAXIMIZATION

RPM 2.0



Short-Term

Mid-Term

First and Last Mile Connections

Uber



Palm Tran is exploring and will soon be implementing first and last mile solutions that will eliminate obstacles of reaching the fixed-route system. Palm Tran will leverage Uber, and taxi companies.

Mobility on Demand



Mobility on Demand (MOD) provides app-based and phone-enabled on-demand transit service either in-house or through a third-party contractor.

This initiative will build upon the successful pilot program in the Glades Region where MOD is currently operating. Palm Tran is looking at other areas where this feature can be implemented in Palm Beach County.



Long-Term

Enhanced Transit 561 Plan



The 561 Plan, which serves as the Transit Element of the Palm Beach Transportation Planning Agency's 2045 Long Range Transportation Plan, identifies 11 enhanced transit facilities within and through the county.

The corridors are collectively named the "5-6-1 Plan" because they consist of five (5) north/south corridors and six (6) east/west corridors, resulting in one (1) connected system.

The North/South Corridors include:

1. Tri-Rail
2. Tri-Rail Coastal Link
3. US-1 (Palmetto Rd to PGA Blvd)
4. Congress Ave (Yamato Rd to Okeechobee Blvd)
5. Military Trail (Glades Rd to PGA Blvd)

The East/West Corridors include:

1. Okeechobee Blvd (SR-7 to US-1 and SR-7 from Forest Hill Blvd to Okeechobee Blvd)
2. Forest Hills Blvd (SR-7 to US-1)
3. Lake Worth Rd (SR-7 to US-1 and SR-7 from Lake Worth Rd to Forest Hill Blvd)
4. Boynton Beach Blvd (Military Trail to US-1)
5. Atlantic Ave (Military Trail to US-1)
6. Glades Rd (Butts Rd to US-1)

Five (5) N/S Corridors

Commuter Rail: Tri-Rail, Coastal Link, US 1, Congress Ave, Military Trail

Six (6) E/W Corridors

Okeechobee Blvd, Forest Hill Blvd, Lake Worth Rd, Boynton Beach Blvd, Atlantic Ave, Glades Rd

One (1) Connected System

Proposed Palm Tran Network



PALM BEACH
Transportation
Planning Agency

2045

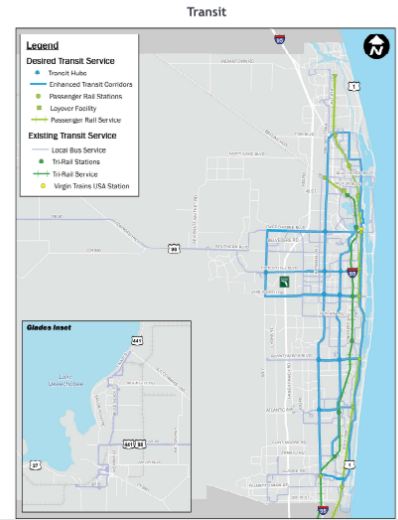
Long Range Transportation Plan

EXECUTIVE SUMMARY

TRANSIT

Using the active transportation demand analysis results along with Palm Tran's current high ridership routes, and 2045 forecasted jobs and population, an enhanced transit network consisting of five (5) north-south corridors and six (6) east-west corridors were identified. These corridors have the greatest potential for enhanced transit service. Included in the (5) north-south corridors are a Tri-Rail extension from the existing Mangonia Park Tri-Rail Station to the VA Hospital and Tri-Rail Coastal Link along the FEC Railroad corridor to the Town of Jupiter.

The corridors are collectively named the 561 Plan because together they create one connected system of enhanced transit services.



- New Mobility on Demand zones
- Bus Rapid Transit Corridors
- Expanded coverage routes
- Increased service frequency and span
- New express routes

PLAN 1-6-15

3 mi





THANK YOU!

We provide access to opportunity for everyone safely, efficiently and courteously.

October 30, 2024

Palm Beach County Department of Airports

Airport Overview

PRESENTED TO:

SMPS Spills the Tea on Transportation

PRESENTED BY:

Cynthia M. Portnoy
Deputy Director of Airports
Palm Beach County Department of Airports



Palm Beach County's Airport System

Palm Beach International Airport

Commercial Service and General Aviation

PBI

**North Palm Beach County
General Aviation Airport**

Reliever, General Aviation

F45



**Palm Beach County Park Airport
(Lantana)**

Reliever, General Aviation

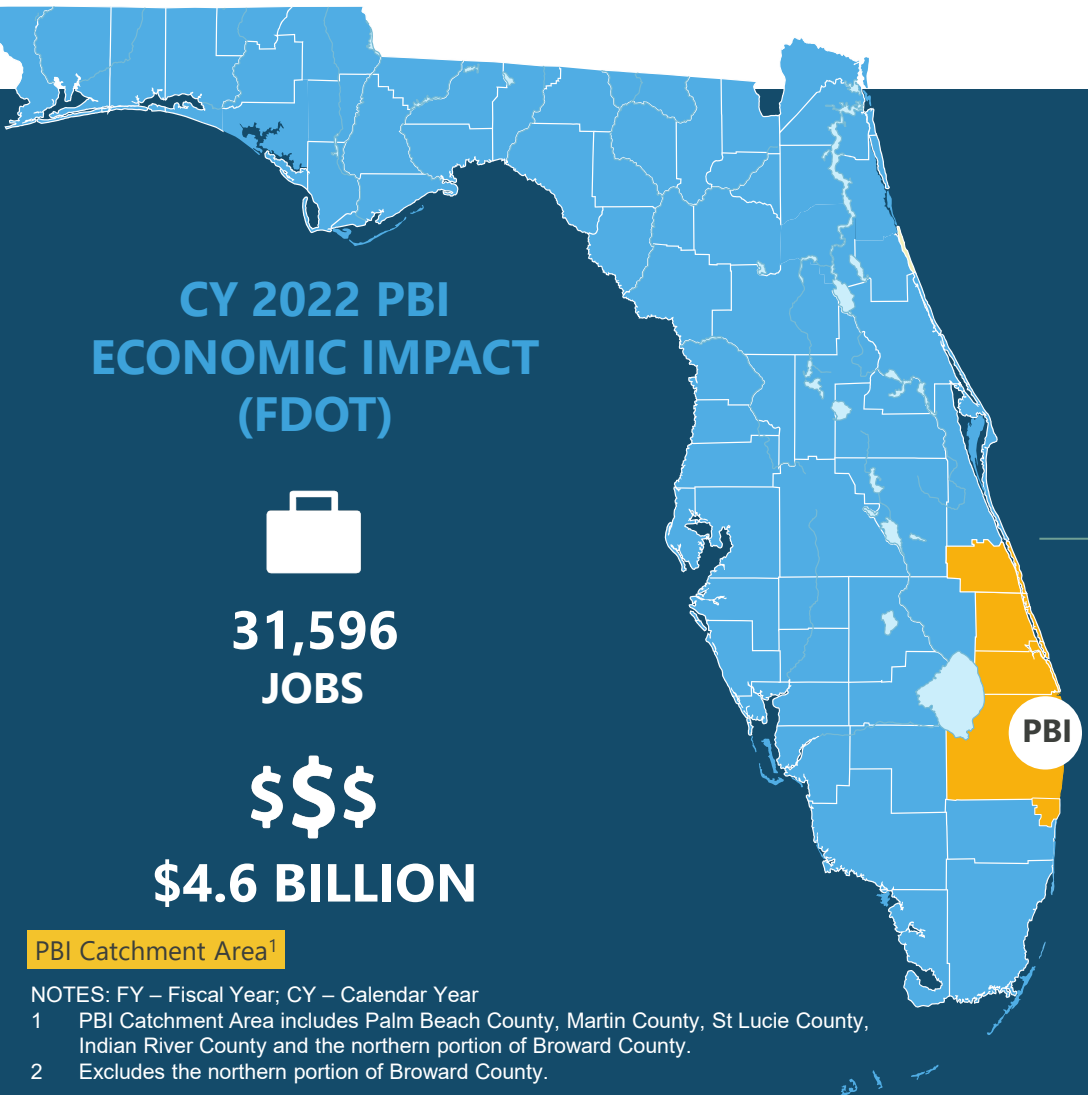
LNA

**Palm Beach County Glades Airport
(Pahokee)**

General Aviation

PHK

Palm Beach County Airport System By the Numbers



KEY ACTIVITY METRICS

2024 PASSENGERS
8.2M
 Up 10% from CY July 2023

14 PASSENGER SERVICE AIRLINES
 As of March 2024

NONSTOP SERVICE TO 38 DESTINATIONS
 As of March 2024

SOCIOECONOMIC CHARACTERISTICS² (PBI CATCHMENT AREA)

TOTAL POPULATION
2.2M → 2.4M
 FY 2023 FY 2030

TOTAL EARNINGS
\$74.3B → \$90.6B
 FY 2023 FY 2030

TOTAL PER CAPITA PERSONAL INCOME
\$81,330 → \$90,595
 FY 2023 FY 2030

CY 2022 GA Airports Economic Impact

F45

467 Jobs
\$77.3 Million

LNA

772 Jobs
\$144 Million

PHK

33 Jobs
\$5.7 Million

Palm Beach County Department of Airports

- Responsible for the operation, management and maintenance of the County's Airport System
- Policy is established by the Board of County Commissioners
- Personnel Complement – 178 (FY25)
- Comprised of the following Divisions:
 - Finance & Administration
 - Marketing & Communications
 - Air Service Development
 - Airport Planning & Development
 - Real Estate & Concessions
 - Operations & Maintenance



Airport Community

Airport Businesses

Airlines

Concessionaires

- Restaurants
- Stores
- Rental Car Agencies
- Advertising

Fixed Base Operators (FBO)

Airline Service Providers

Commercial Tenants

- Warehouses
- Hotels
- Toyota Dealership
- Drive Shack
- PopStroke

Partner Agencies

PBC Fire Rescue - Aircraft Rescue & Fire-Fighting (ARFF)

Palm Beach County Sheriff's Office (PBSO)

Transportation Security Administration (TSA)

Federal Aviation Administration (FAA)

- Air Traffic Control

Customs & Border Protection (CBP)

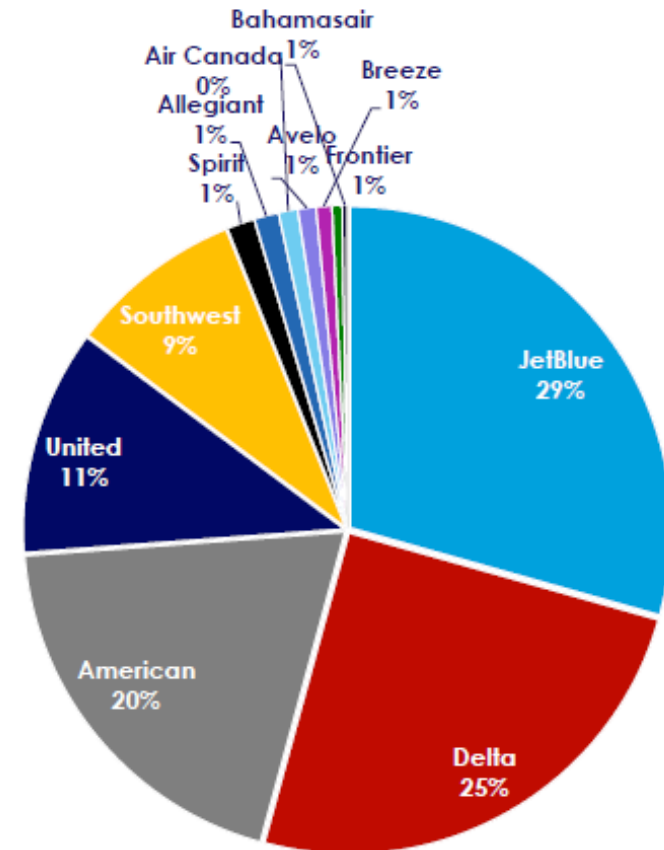
Federal Bureau of Investigation (FBI)



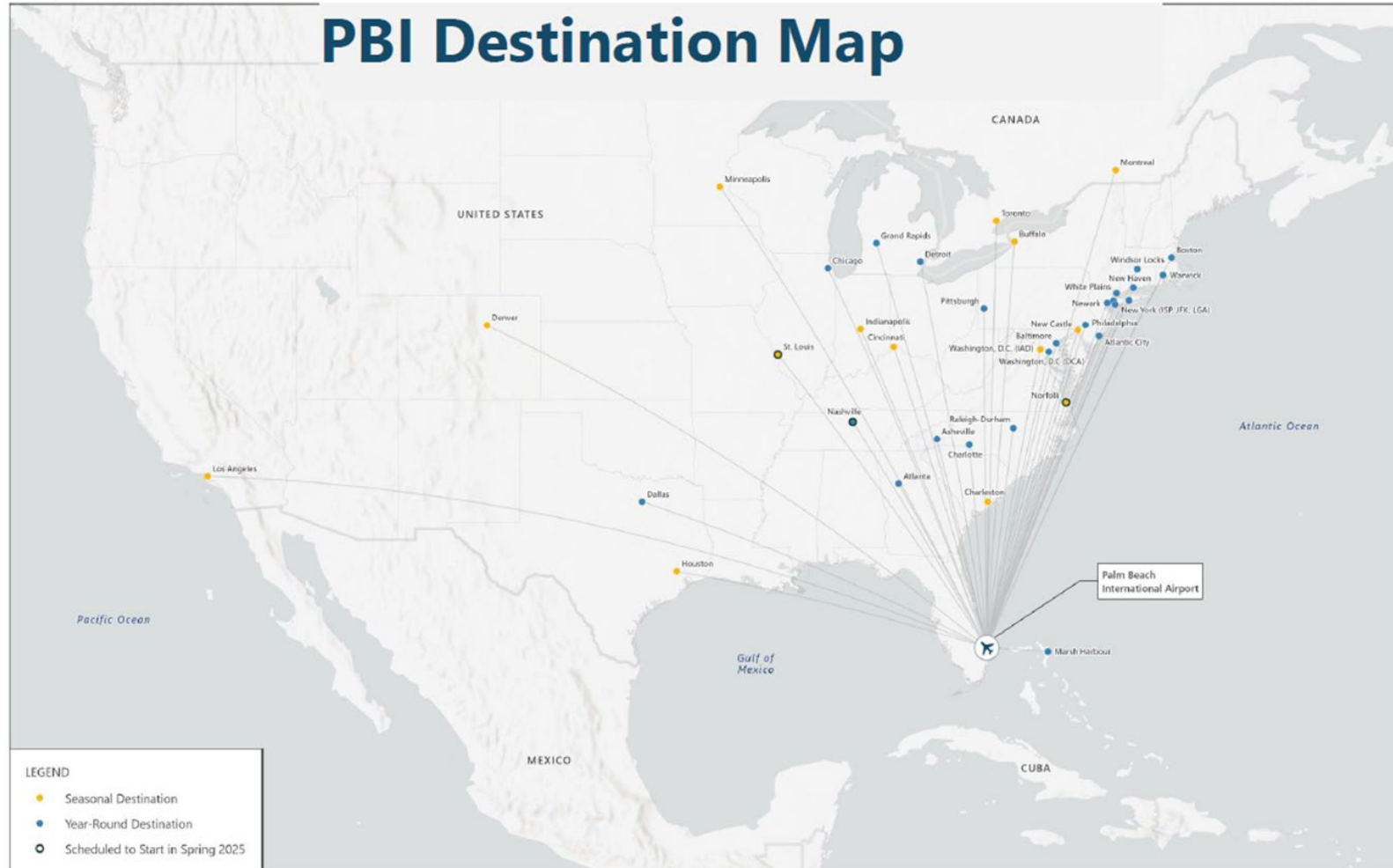
Palm Beach International(PBI)

- 14 Airlines Serving 38 Destinations
- New Canadian Airline Porter Airlines starting November
- 8.2 Million Passengers Annually
- Nearly 175,000 Annual Aircraft Operations
- Nearly 29,000 Tons of Cargo Annually
- Award-winning recognition
 - 5th Best Airport - *U.S. Conde Nast 2024 Readers' Choice Awards*
 - 3rd Best Domestic Airport - *Travel + Leisure Magazine's 2024 World's Best Awards*
 - 7th Best Medium-Size Airport - *2024 J.D. Power North America Airport Satisfaction Survey*

Monthly Flights



Where do we travel?

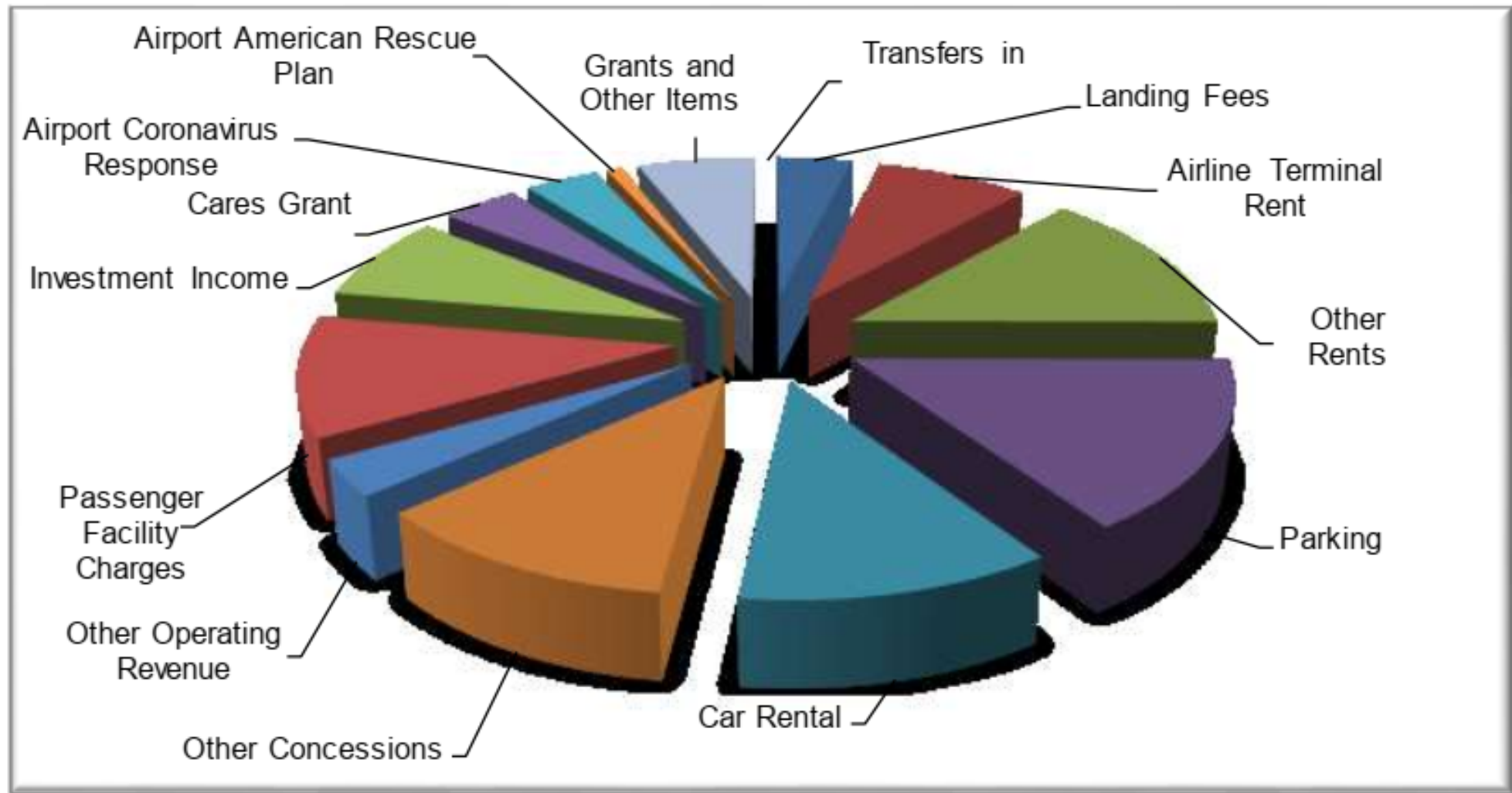


SOURCES: Palm Beach County Department of Airports, June 2024 (aviation activity data); Cirium Diio, June 2024 (published airline schedules).

Department of Airports Funding Overview

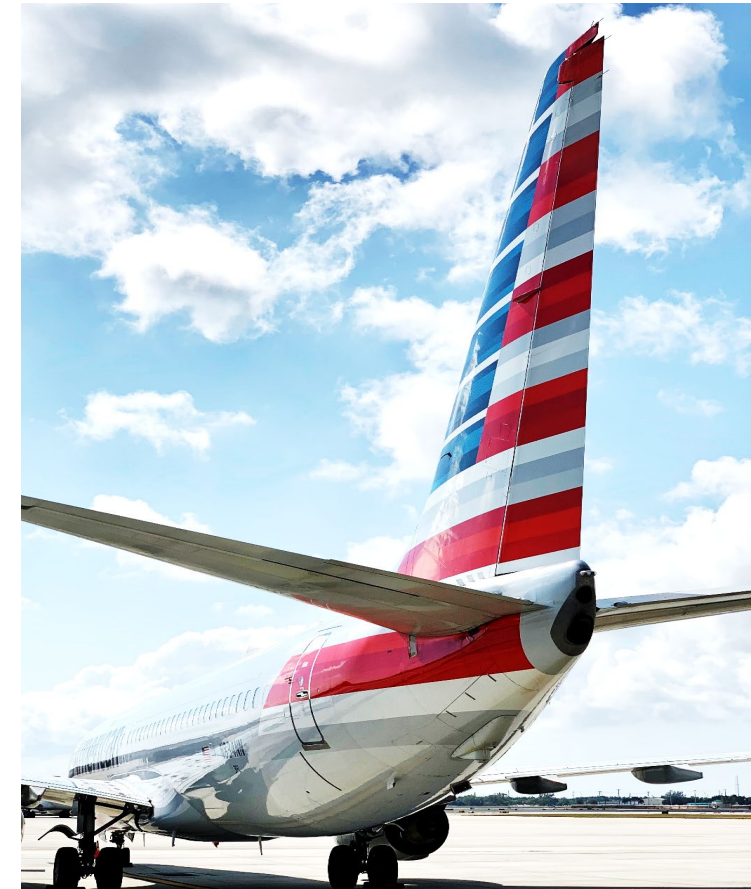
- **Operates as an enterprise fund, no ad valorem tax support**
 - Operation and maintenance costs are funded by user fees paid by airlines, businesses and passengers
 - Capital costs are funded by a combination of Federal and State grants, Passenger Facility Charges (PFC), revenue bonds and airport revenues
- **Revenues consist of “airline” and “non-airline” revenues:**
 - Non-airline revenues reduce overall costs to the airlines (e.g. public parking, concessions, general aviation fees, and commercial leases)
 - Airline rates and charges are determined by agreement with the Signatory Airlines
- **Airport revenues may only be used for the operation, maintenance and improvement of the County’s Airport System**
- The County is considered an “airport sponsor”
- By accepting grant funding, airport sponsors make binding commitments to assure that the public’s interest in civil aviation will be protected

Sources of Airport Funding



Role of the Airlines

- **Signatory Airlines assume significant responsibility for the costs of the County's Airport System:**
 - Each year, airline rates and charges for the upcoming fiscal year are established by estimating airport costs for the upcoming fiscal year
 - At the end of the fiscal year, if the actual costs are greater than the estimated costs, the Signatory Airlines are obligated to pay the differential
 - Rates and charges may be adjusted mid-year in the event the County determines there may be a shortfall
 - By assuming the risk, the Signatory Airlines are entitled to revenue sharing in an amount equal to 35% of net remaining revenues, if any
- **PBI's Cost Per Enplanement (CPE), which is the primary metric used by the airline to determine costs, has historically been significantly lower than peer airports**



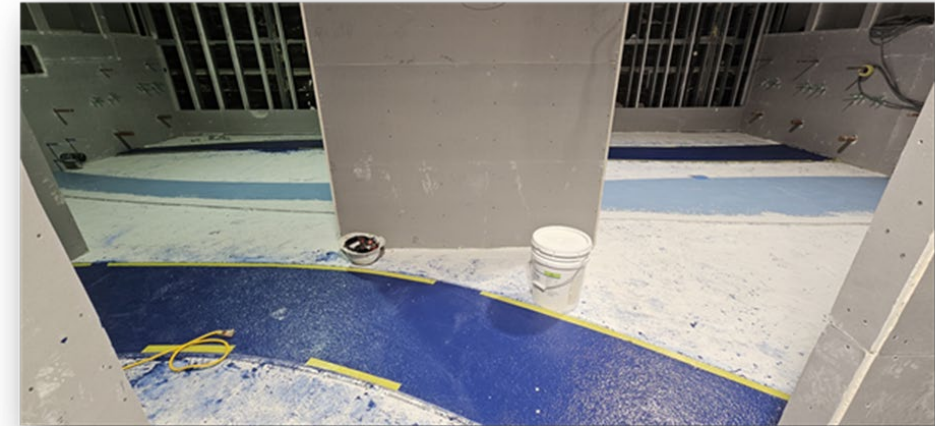
PBI Projects Currently Under Construction

- Terminal Roof Replacement - \$13M
- 400 Hz Ground Power Units (GPU) Replacement - \$7.3M
- Pre-conditioned Air – Point-of-Use Replacement-\$13.6M
- Short-Term and Long-Term Parking Garage Repairs - \$3.5M
- Central Airfield Improvements Phase 2 - \$20M



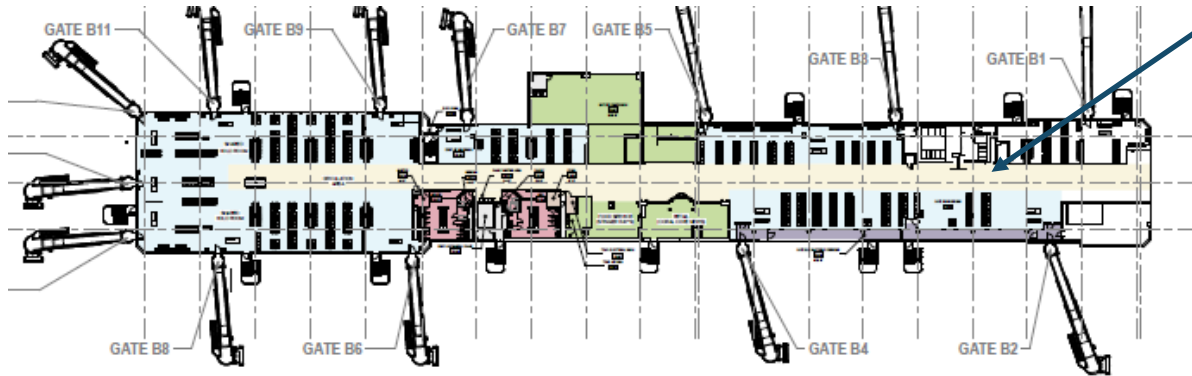
Phase I - Concourse B Expansion - \$14.5M

- Phase I includes the expansion of restroom facilities and construction of approximately 3,000 square feet of new shell space for a future sit down restaurant between Gates B5 and B7.
- Phase I – Restrooms complete by Thanksgiving, Concession space January 2025

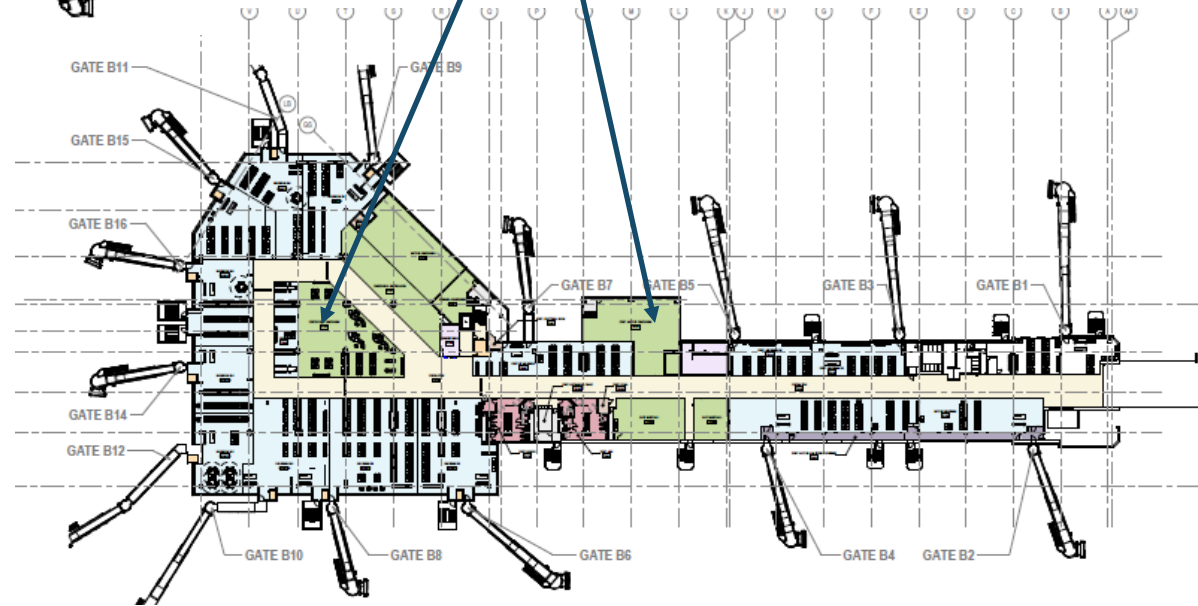


Full Concourse B Expansion

Current Condition

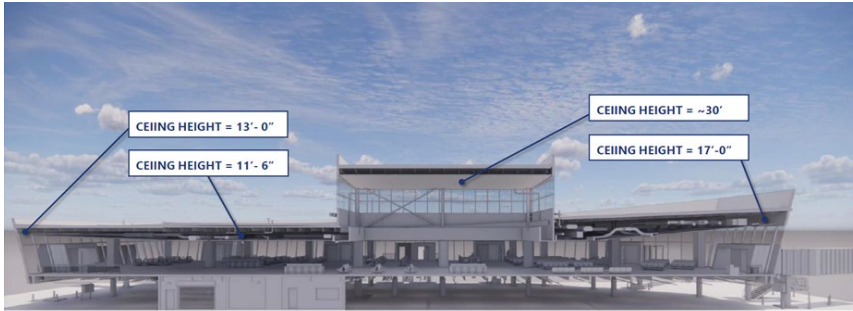


Expanded Concourse



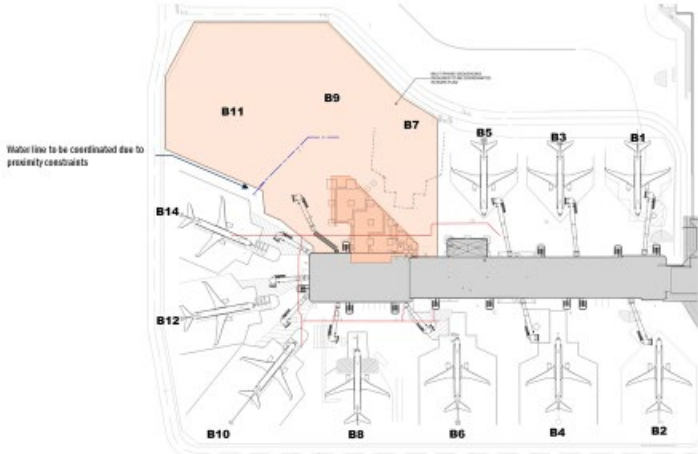
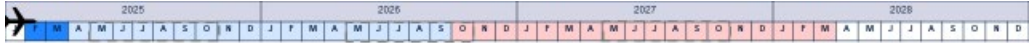
- Additional 56,000 sq. ft.
- Overall Refresh
- Expanded Seating
- Expanded Restrooms
- Elevated Ceiling Heights
- Electrochromic Glass (Key Locations)
- New Restaurant Spaces
- Integrated Nursing Suite
- Infrastructure for (2) Loading Bridges

Concourse B Expansion

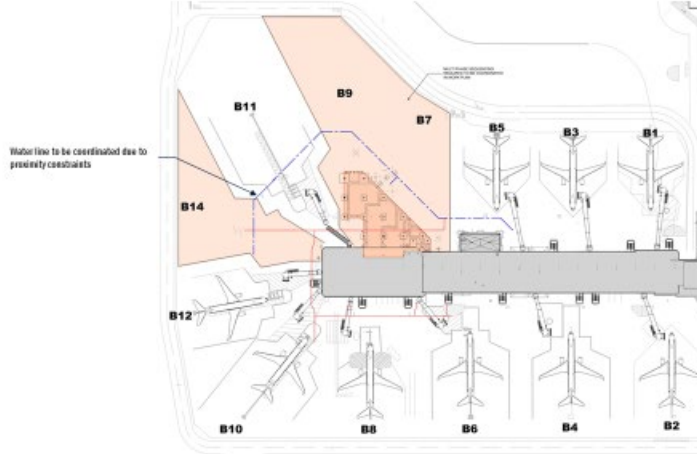
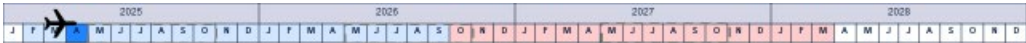


TRANSVERSE SECTION

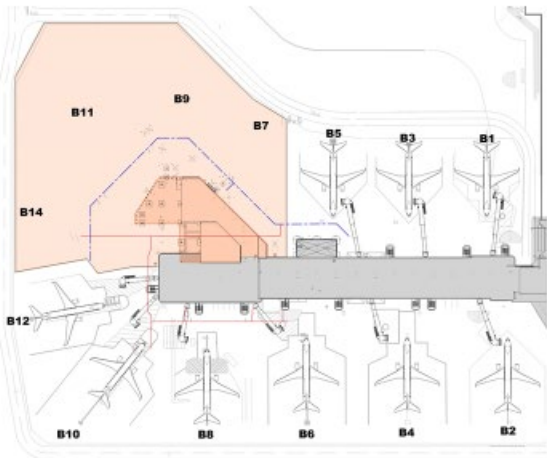
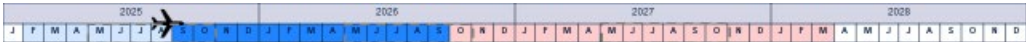
Concourse B Expansion - Phasing



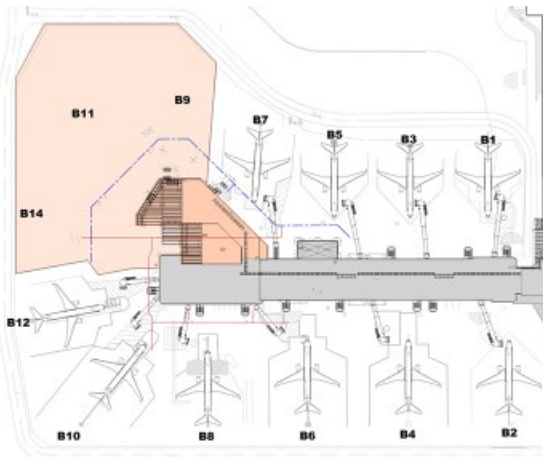
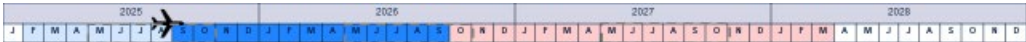
PHASE 1A – APRON & BUILDING | 2 MONTH DURATION | 10 GATES OPERATIONAL



PHASE 1B – APRON & BUILDING | 1 MONTH DURATION | 10 GATES OPERATIONAL

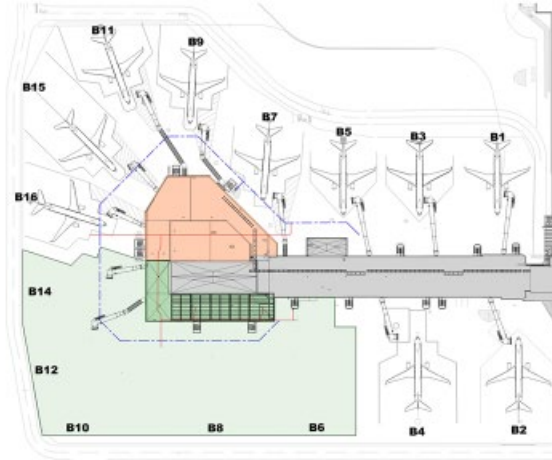
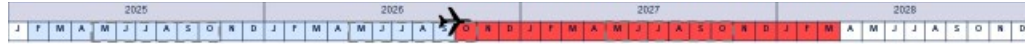


PHASE 1C – APRON & BUILDING | 4 MONTH DURATION | 9 GATES OPERATIONAL



PHASE 1D – APRON & BUILDING | 13 MONTH DURATION | 10 GATES OPERATIONAL

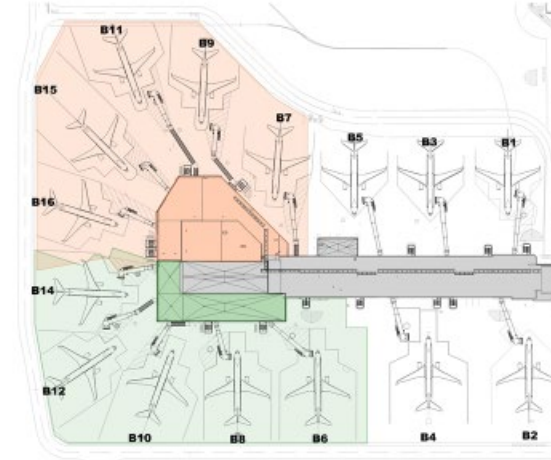
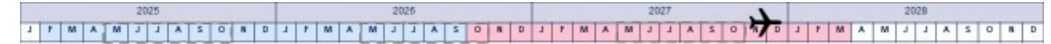
Concourse B Expansion - Phasing



PHASE 2 – APRON & BUILDING | 14 MONTH DURATION



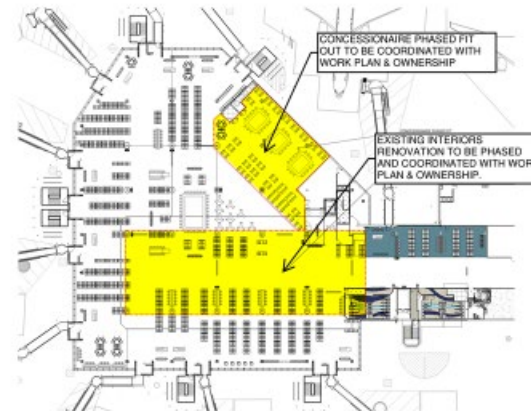
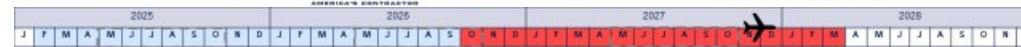
10 GATES OPERATIONAL



APRON & BUILDING END STATE



15 GATES OPERATIONAL



PHASE 3 – INTERIORS | 4 MONTH DURATION



15 GATES OPERATIONAL



Future Opportunities

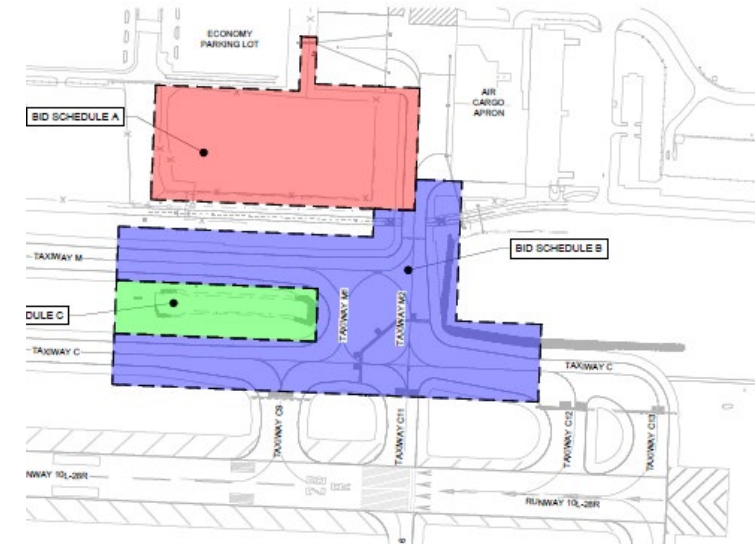
PBI – Food, Beverage & Retail Concession Agreements (2 Opportunities)

▪ Program Goals

- **SOPHISTICATED**, but **NOT EXCLUSIVE**, concepts that provide a sense of place through innovative design features, creating engaging customer experiences
 - Immerse customers in the sights, smells, sounds and tastes of Palm Beach County/South Florida
 - Focus on local, regional, and national concepts for food/beverage
 - Incorporate local/regional products whenever possible
 - Provide a **VARIETY** of options for all price points, including healthy, kosher and vegan options.
 - Include sustainable practices through packaging, reduction of food waste, use of energy efficient appliances, etc...
 - **ELEVATE THE CUSTOMER EXPERIENCE**
-

PBI Future Capital Projects

- Runway 10L-28R Rehabilitation
- Air Cargo Access Road Improvements
- Air Cargo Ramp Expansion, TWY M, M1, M2
- Elevator Replacement
- Air Handler Replacement - Phase 2
- Electrical Infrastructure Improvements – Phase 2
- **New Aircraft Rescue & Fire-Fighting (ARFF) Facility**
- Repairs to Short-Term and Long-Term Garage 3 – Phase 2
- **New Revenue Control Building**
- New GAFIS Building



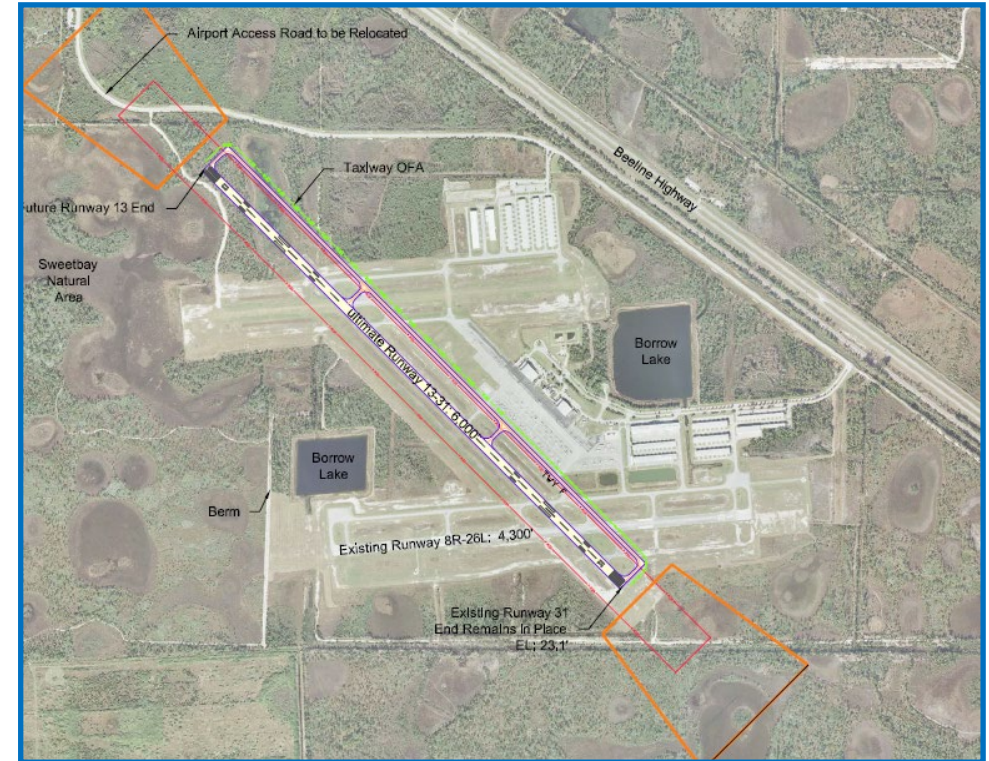
On the Horizon - Main Terminal Modernization

- Connecting Concourses A/B and C through new post-security space
- Replacing the existing skylight with a hard ceiling and clearstory
- New terrazzo flooring
- Expanding security checkpoints
- New expanded common use lounge space
- Space for engaging experiences



On-Going and Future General Aviation Airport Projects

- F45 Ramp Expansion
- LNA RWY 10L-28R Surface Treatment
- LNA West Apron Rehab
- LNA Southside Redevelopment Phase 3 & 4
- LNA Safety Assessment
- LNA Master Plan Update
- LNA Part 150 Noise Compatibility Study
- F45 EA Runway 14/32 Extension



PBI Website Info



Palm Beach County Department of Airports
Airports Planning & Development Division

Upcoming Planning, Design & Construction Opportunities
(as of October 24, 2024)

Project No.	Title	*DBE/SBE	Anticipated or Advertisement Date	Status
DOA 24-22	RFP CMAR Continuing Contract	SBE	November 2024	
PB 24-6	RFP CMAR PBI Facility Systems	DBE	Closed	Selection in Process
PB 24-21	RFP Program Management	DBE	10/27/2024	Submittals Due 12/18/24
PB 24-X	PBI TWY M, M1, Air Cargo Ramp, TWY M Culvert	DBE	Dec 2024	
LN 24-X	LNA PAPI/ Beacon Replacement	DBE	Jan 2025	
PB-24-X	PBI Repairs to Short Term & Long Term Parking Garage 3	SBE	November 2024	
NC 24-X	GA Surface Treatments (PHK, LNA, F45)	DBE	Feb 2025	
NC 24-x	F45 Terminal Ramp Expansion	DBE	November 2024	
PB 24-X	PBI Air Cargo Access Improvements-rebid	DBE	Jan/Feb 2025	
LN 24-X	LNA Southside Infrastructure Phase 3	DBE	Feb 2025	90% Design in progress
PB 24-18	Misc. Pavement Repairs- Package 2	SBE	Closed -Single Bid received by Ranger Construction Industries.	Contract Award

Please Note: All information regarding the projects listed above can be found on the County's Vendor Self Service website at the following link when advertised:

<https://pbcvssp.co.palm-beach.fl.us/webapp/vssp/AltSelfService>

PBI Website Info *(continued)*

Additional Projects Advertised Under Continuing CM-at-Risk Contracts

Project No.	Title	*DBE/SBE	Anticipated Advertisement Date	Status
	Revenue Control Building (CMAR - Whiting-Turner Contracting Co.)	DBE	Winter 2025	Contract Award
	PBI New ARFF Facility (CMAR Contract - the Morganti Group Inc)	DBE	Winter 2025	
	CMAR Concourse B Expansion at PBI - (Suffolk Construction)-Package 2B - Full Expansion	DBE	Advertised 8/26/2024	Bids received 10/23 - under review
	PBI GA FIS Facility (CMAR - Whiting-Turner Contracting Co.	DBE	Spring 2025	Final Selection of CM Firm 11/21/24
	PBI Terminal Connector (CMAR Contract - The Morganti Group Inc.)	DBE	Spring 2025	Shortlist Meeting 10/7/24
	PBI Switchgear Phase 2 (New CMAR Contract - TBD)	DBE	Spring 2025	Final Selection of CM Firm 11/21/24
	PBI Elevator Replacement (New CMAR Contract - TBD)	DBE	Spring 2025	Final Selection of CM Firm 11/21/24
	PBI Air Handler Replacement Phase 2 (New CMAR Contract - TBD)	DBE	Spring 2025	Final Selection of CM Firm 11/21/24
	PBI Access Control Upgrade	DBE	Summer 2025	Final Selection of CM Firm 11/21/24

Please note: These projects are not reflected on the County's Vendor Self Service website.
Contact The CMAR Firm

The Morganti Group Inc.	Brent Martin	bmartin@morganti.com
Suffolk Construction	Walt Chislak	wchislak@suffolk.com
Whiting-Turner Contracting Company	Mike Avni	Michael.Avni@Whiting-Turner.com

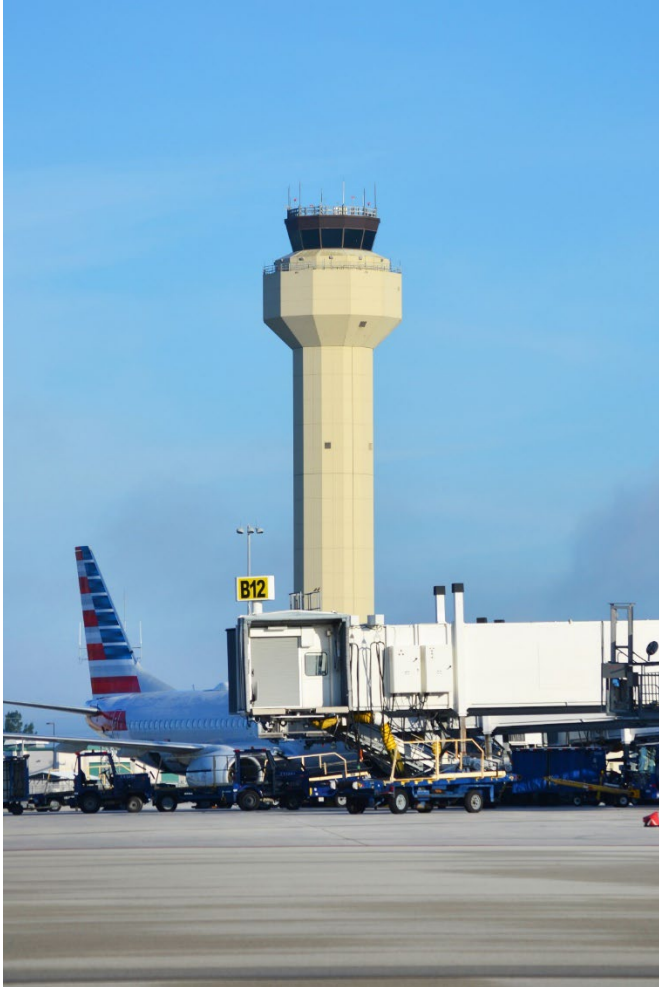
* DBE *Projects referenced as DBE are subject to The Disadvantaged Business Enterprise goal in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d-2000d-4) due to funding source*

** RFP

Current General Engineering/Planning Consultant Contracts Contact Information

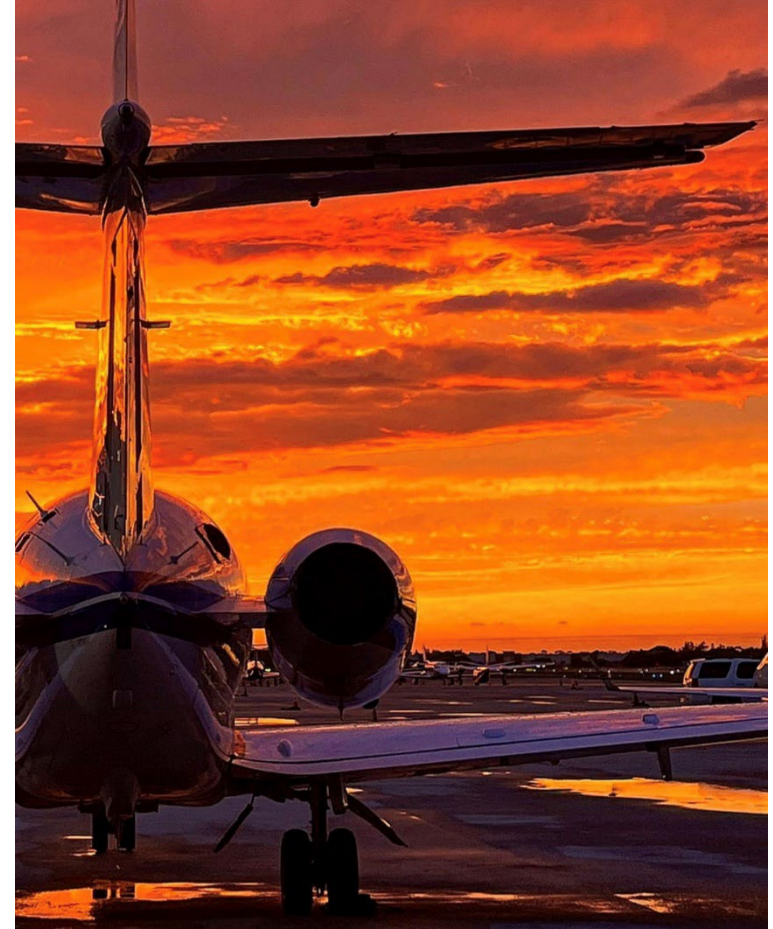
AECOM	Andy Kacer	Andy.Kacer@AECOM.net
RS&H	Aaron Jackson	Aaron.Jackson@rsandh.com
HDR	Cody Parham	Cody.Parham@hdrinc.com
AVCON	Mark Waller	mwaller@avconinc.com
Ricondo	Dave Ramacorti	dramacorti@ricondo.com
EXP	Marcos Souza	marcos.souza@exp.com

Questions?



Contact Info:

Cynthia M. Portnoy, PE
Senior Deputy Director of Airports
Palm Beach County Department of Airports
(561)471-7411
cportnoy@pbia.org





Palm Beach County
The Best of Everything.

Presented By:

*David L. Ricks, P.E.
County Engineer*

ENGINEERING & PUBLIC WORKS FY 2025 Budget

October 2024



EPW VISION, MISSION, AND CORE VALUES

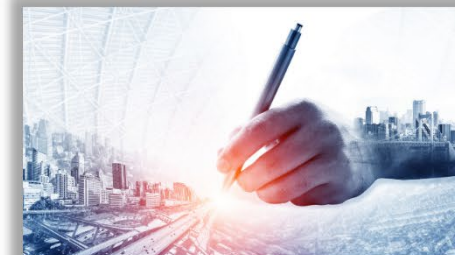
VISION

Engineering Infrastructure for the Future



MISSION

Ensuring Palm Beach County Residents Enjoy Safe, Efficient, and Reliable Infrastructure



EPW CORE VALUES

TEAMWORK

At EPW we work together to solve problems.

ACCOUNTABILITY

We always step up to the plate to get the job done. We take ownership and give credit where credit is due.

QUALITY

We take pride in what we do. We strive to be professional, thorough, careful and courteous.

INNOVATION

Explore when a better way presents itself.

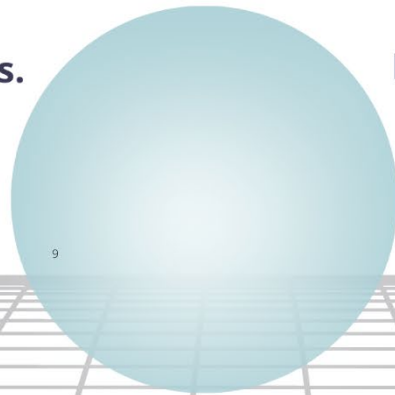
POSITIVITY

It's an attitude!

At EPW, we enjoy what we do and take the time to celebrate with our team.

INTEGRITY

We conduct ourselves in an ethical, moral, honest and honorable way.





DEPARTMENT SNAPSHOT

The Department operates out of three main offices:

- 2300 N. Jog Road
- 2555 Vista Parkway
- 580 State Market Road, Pahokee

County Engineer, Executive Team and Division Directors



ENGINEERING DEPARTMENT MAIN DIVISIONS





Let's Talk EPW



- EPW has gone from maintaining a total of 1,200 lane miles in 1985 to over 3,600 lanes miles in 2023; a 200% increase!
- 2,200 acres of right-of-way mowing
- 1,320 miles of concrete sidewalks
- Drainage Structures Cleaned FY23 – 3,094
- Length of Drainage Pipes Cleaned FY23 – 81,090 feet
- Maintain over 10,700 beautification trees
- Maintain over 1,300 traffic signals and flashers

Since the inception of the Five-Year Road Program (5YRP) in 1985, PBC has focused on building the network, but we are now also obligated to maintain what has been built.



Department Staffing Profile

- 475 Permanent Positions
 - 15% vacancy rate at any given point in time
- Challenges in acquiring talent
 - Trades
 - Professional Engineers (P.E.s)
 - Not limited to the above
- No additional positions requested in FY 2025

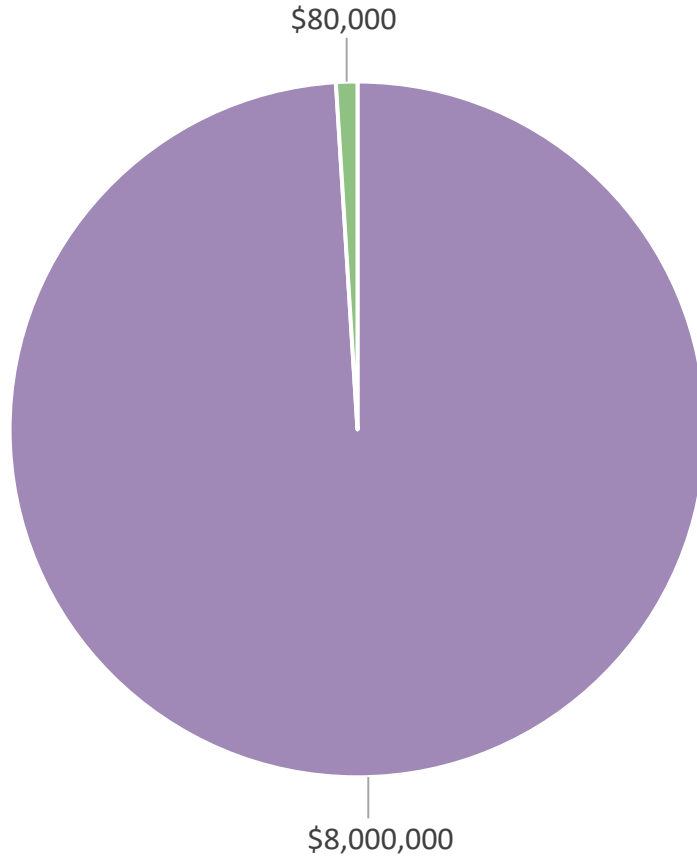




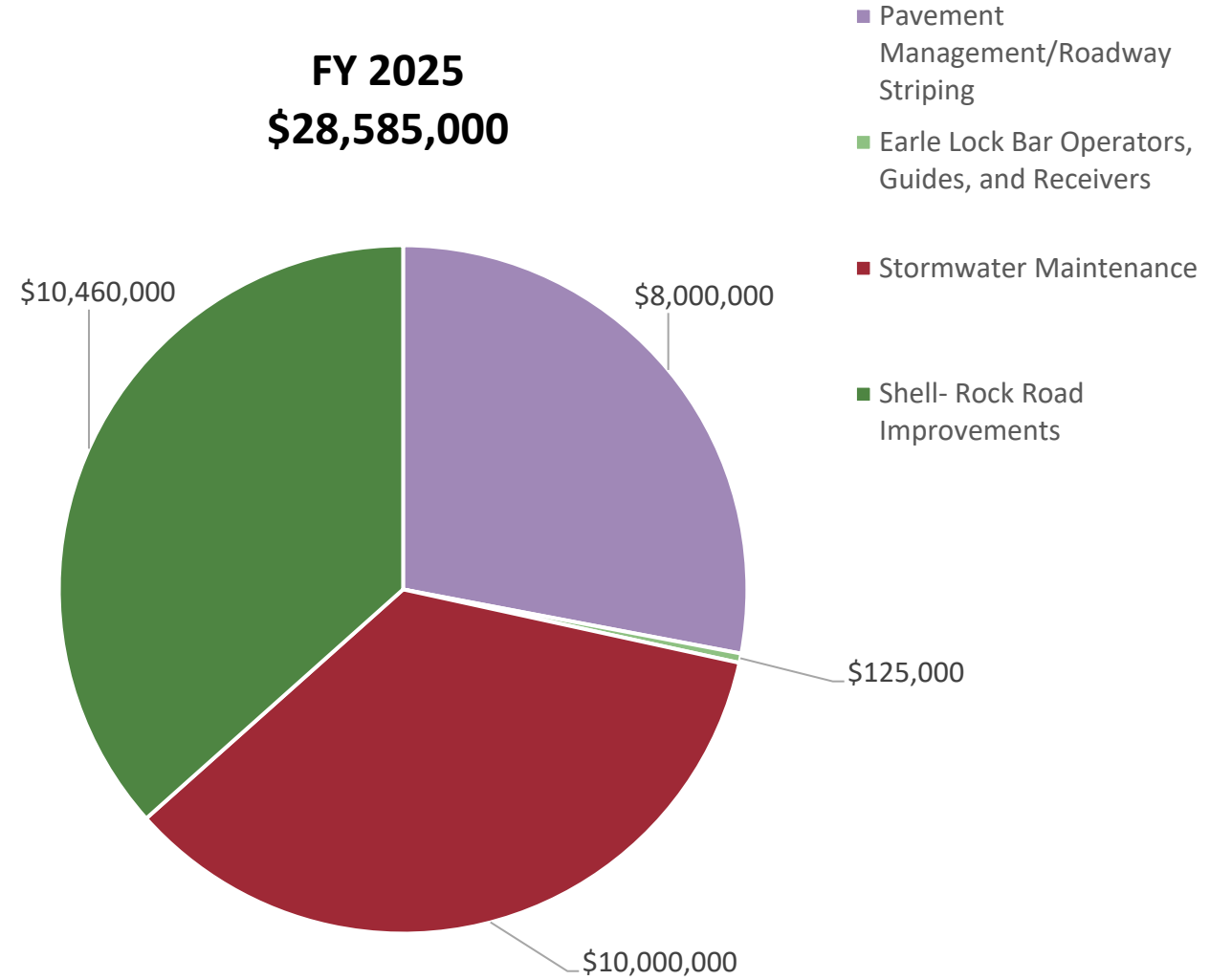
Ad Valorem Funded CIP Projects

- Pavement Management/Roadway Striping
- Earle Lock Bar Operators, Guides, and Receivers

FY 2024
\$8,080,000

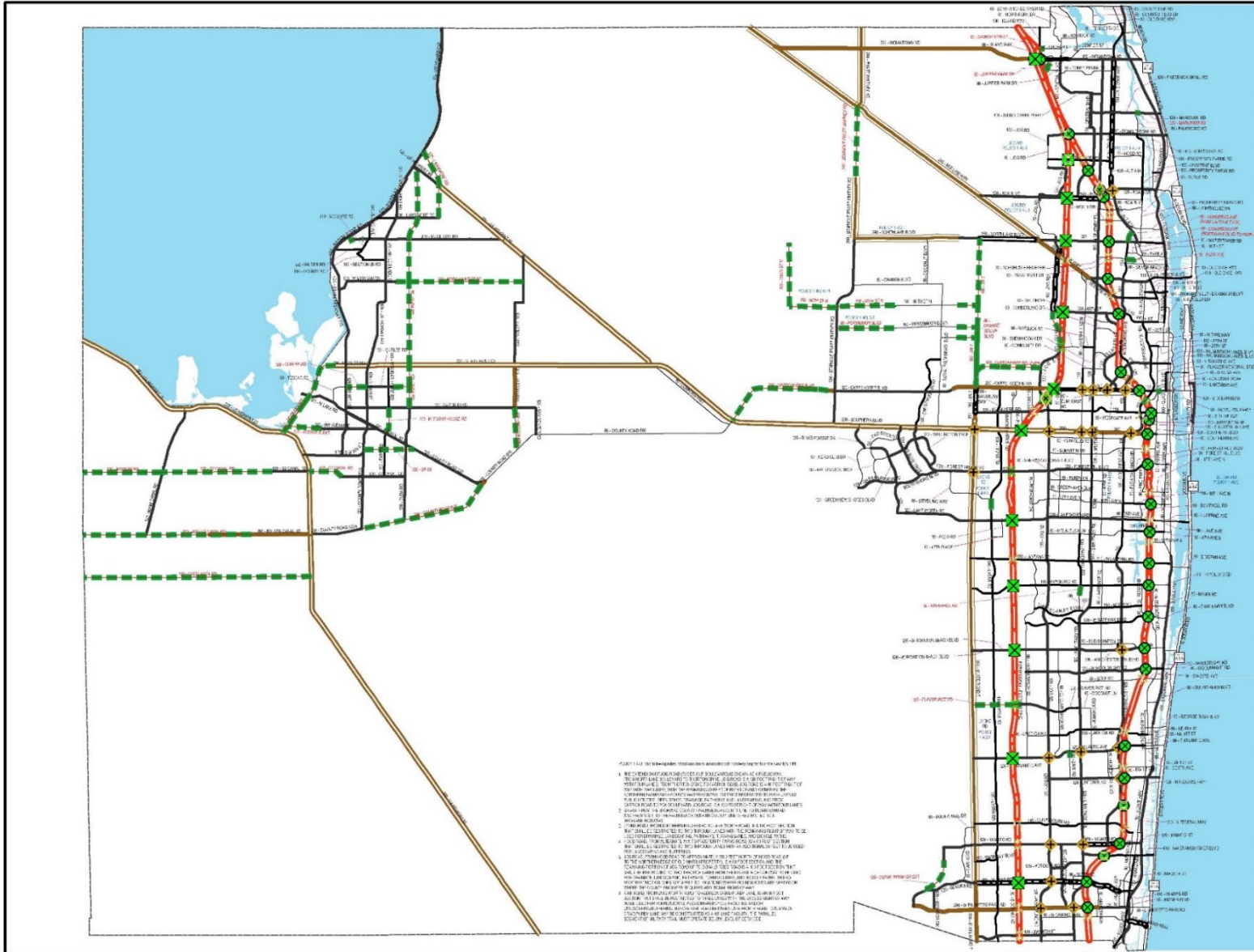


FY 2025
\$28,585,000





Thoroughfare Right-of-Way Identification Map (TIM)



**MAP TE.14.1
THOROUGHFARE RIGHT OF WAY IDENTIFICATION MAP**

THE INTERSECTION OF ALL RIGHTS OF WAY SUBJECT TO THIS CHALLENGE THE RIGHT OF WAY FOR THE PUBLIC THROUGHOUT PALM BEACH COUNTY. THESE RIGHTS SHALL BE DETERMINED BY THE ENGINEERING & PUBLIC WORKS DEPARTMENT. THE COUNTY ENGINEER HAS THE AUTHORITY TO CHANGE THE CHALLENGE RIGHTS OF WAY AT ANY TIME WITHOUT NOTICE TO THE DEVELOPMENT AND RESIDENTS.

NOTE: THIS MAP DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION SHOWN HEREON. THE ENGINEERING & PUBLIC WORKS DEPARTMENT WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LOSSES ARISING OUT OF THE USE OF THIS MAP. THE USER OF THIS MAP SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND PERMITS FOR ANY DEVELOPMENT. THE ENGINEERING & PUBLIC WORKS DEPARTMENT WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LOSSES ARISING OUT OF THE USE OF THIS MAP.

- EXPRESSWAY
- FUTURE ROADS
- URBAN INTERCHANGE
- TURBINE INTERCHANGE
- PARTIAL INTERCHANGE
- GRADE SEPARATION
- FUTURE GRADE SEPARATION

or existing where development precludes obtaining additional ROW

OR AS OTHERWISE INDICATED

110'

120'

140'

160'

180'

200'

220'

240'

NOTES: PROPOSED FACILITIES INDICATE CORRIDOR NEEDS ONLY. LOCATION TO BE DETERMINED BY SPECIFIC CORRIDOR & DESIGN STUDIES.

SOURCES: ENGINEERING & PUBLIC WORKS DEPT.
Last Amended in Round 24-A by Ord. 2023-016

**PALM BEACH COUNTY
COMPREHENSIVE PLAN
MAP SERIES**

Effective Date: 06/11/2023
Filename: N:\Map Series\MXD\Adopted

Contact: PBC Planning Department or PBC Engineering & Public Works Department



Five-Year Road Program

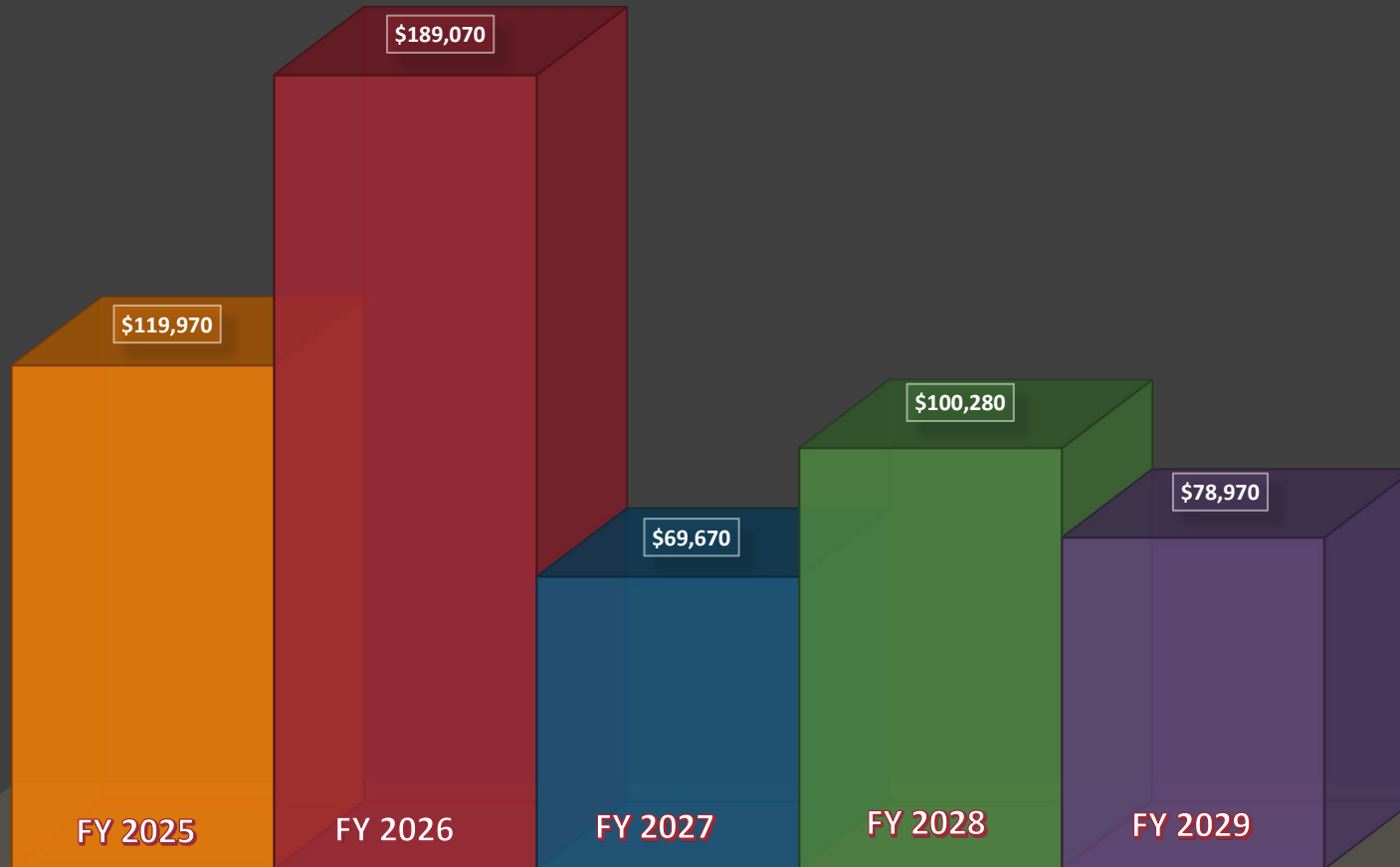
5 YRP
+
PBC CIP

- Created in 1985 and was previously separate from the PBC Capital Improvement Program (CIP).
- Direction received in 2023 to combine the 5YRP with the overall PBC CIP which required ordinance change approved in August 2023. Current PBC CIP now includes the 5YRP.
- With the updates to the 5YRP, all municipalities are contacted and each commissioner is consulted on their priorities. Projects are reprioritized based on this feedback, as funding permits.



5YRP Annual Update – FY 2025

5 YEAR ROAD PROGRAM ANNUAL UPDATE - FY25
($\$1,000$ 'S)



74
**Line Items/
Projects**

Overall Total
\$557,960,000



2024 Construction Bid Schedule

Road	Project Limits	Project Description	Bid Opening	Construction Cost Estimate
Gateway Blvd and Old Boynton Rd	at Lawrence Road	Intersection Improvements	February-24	\$1,000,000
Half Mile Rd	Brook Isles Ave. to Atlantic Ave.	Road Realignment	April-24	\$2,500,000
Blue Heron Blvd	at Congress Ave	Intersection Improvements	May-24	\$2,300,000
Cherry Road	Military Trail to Quail Drive	Sidewalk and Pedestrian Lighting	June-24	\$1,810,000
Australian Avenue	Banyan Blvd to 45th St.	Drainage Improvements	July-24	\$38,000,000
Haverhill Road	S. of Ceceile Ave to N. of Century Blvd	Intersection Improvements	July-24	\$1,200,000
Hagen Ranch Rd	Smith Farm Blvd. to Lantana Rd.	Intersection Improvements	July-24	\$3,000,000
A1A	US1 to Donald Ross Rd	Drainage Improvements	July-24	\$1,400,000
Congress Ave Extension Phase A	Northlake Blvd to Avocado Dr.	0.3 mi, 3 Lanes	July-24	\$4,500,000
Florida Mango Road	10th Avenue North to Edgewater Dr.	0.9 mi, 3 Lanes	August-24	\$9,100,000
Florida Mango Road	S. of Barbados Rd. to Myrica Rd.	Culvert Replacement	August-24	\$800,000
Palmetto Park Rd Bascule Bridge	Rehab/Painting over Intracoastal Waterway	Bridge Rehabilitation	August-24	\$8,600,000
Prosperity Farms Rd	over SFWMD C-17 Canal	Bridge Replacement	August-24	\$8,400,000
Okeechobee Blvd	at Jog Road	Intersection Improvements	September-24	\$1,900,000
Linton Blvd	at Old Dixie Hwy.	Intersection Improvements	September-24	\$300,000
Wallis Rd	at Haverhill Rd	Intersection Realignment	September-24	\$960,000
Congress Ave	at Palm Beach Lakes Blvd	Intersection Improvements	October-24	\$5,600,000
CR 880	Sam Senter Rd. over SFWMD Ocean Canal	Bridge Replacement	October-24	\$15,000,000
Florida Mango Rd	over LWDD L-5 Canal	Bridge Replacement	October-24	\$1,300,000
Miner Rd	at Congress Avenue	Intersection Improvements	October-24	\$2,300,000
Clint Moore Rd	at Military Trail	Intersection Improvements	November-24	\$2,100,000
El Clair Ranch Rd	at Pipers Glen	New Roundabout	November-24	\$600,000
Australian Ave	at Okeechobee Blvd	Intersection Improvements	November-24	\$2,500,000
45th St	E. of Haverhill Rd. to E. of Military Trail	Intersection Improvements	November-24	\$2,760,000
Military Trail	Pheasant Way	Drainage Improvements	December-24	\$3,500,000
Military Trail	at Golf Road	Intersection Improvements	December-24	\$770,000
Northlake Blvd	E. of Seminole Pratt Whitney Rd. to E. of Hall Blvd.	1.0 mi, 4/6 Lane Roadway	December-24	\$11,000,000
Congress Ave	over L-2	Bridge Replacement	December-24	\$1,500,000
GRAND TOTAL:				\$134,700,000



Road & Bridge: Stormwater Section

Equipment & Staff:

- Stormwater team leaders: PW Superintendent, PW Supervisor and PW Crew Chiefs
- 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
- There are currently (23) stormwater positions and (27) pieces of equipment/vehicles

Section Goal:

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

"Protecting OUR Waterways... One Drain at a Time"





Stormwater Projects

- 2199 Radnor Ct. - \$348K
- Boca Rio Rd. - \$132K
- 2097 West Palma Dr. - \$42K
- 4167 Mockingbird Dr. - \$124K
- **Crest Dr. & Lake Placid - \$178K**
- Belvedere Rd. & Benoist Farms Rd. - \$204K
- Canal 4 @130th & 125th - \$100K
- Roan Lane - \$73K
- Kirk @ L-11 Canal - \$898K
- **SW22nd & Sable Pine Ditch - \$86K**
- Seminole Manor Subdivision - \$632K
- Cannongate Subdivision - \$590K
- 17967 Bridle Ct. - \$228K
- Sioux Lane - \$180K
- Seminole Dr. - \$72K
- Lake Charleston Subdivision
(Catalina Isle Dr. / Hatteras Dr.) - \$5.2M
- Whispering Trails Subdivision - \$4.6M
- Haverhill at L-11 Canal - \$1.2M
- **Wynnewood Acres Subdivision
(Woodcrest Rd., Upland Way and Lafayette St.) - \$750K**
- Royal Palm Culverts - \$2.5M
- **Foxwood Estates (Foxwood Lane) - \$1.2M**
- Lantana Rd. Hagen to I-95 - \$2M
- Military Trail - PGA to Donald Ross - \$2M
- **Pratt Whitney Rd. - \$1.3M**
- **Ellison Wilson Rd to Bay Colony /
Oak Harbor Outfall ICWW - \$1.5M**

Green = Completed
Orange = In-Progress

Funded: \$26,137,000



Palm Beach County Bridges Video ITS, Security and Safety Project

- **707 Cato's Bridge** - currently in 95% complete with minor punch list items remaining
- **Donald Ross Bridge** – completing hardware install, and bringing up system for test and tune
- **Ocean Ave Bridge** – Scheduling for infrastructure install (November/December)
- **George Bush Bridge** – Scheduling for infrastructure install (November/December)
- **Woolbright Bridge** – TBD
- **Linton Bridge** – TBD
- **Camino Real Bridge** – TBD
- **Palmetto Park Bridge** – TBD
- **Torry Island/Point Chosen** – will be last to be completed
- **Project Budget \$2M**





Traffic: Current and Future Projects

Technology Evaluation

- Synchrogreen (Adaptive Signal – Hood Rd.)
- NoTraffic (Video Detection – Forest Hill Blvd. and Olympia)
- Bosch Camera (Okeechobee Blvd. and Rosemary Ave.)
- Iteris Vantage Vector (Video Detection – Hood Rd.)

Safety Projects

- Safe Streets For All Program (SS4A)
- Local Roads Safety Program (LRSP), FYA Grant
- LRSP Pre-Signal Grant Application

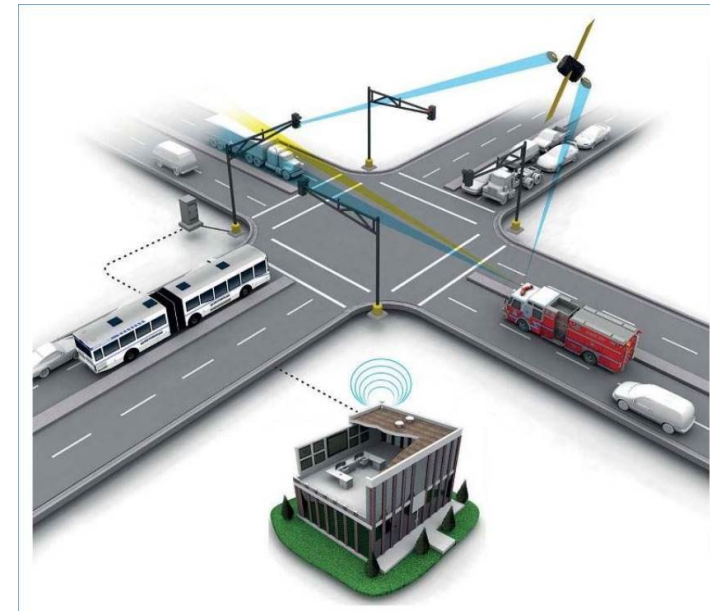
Signal System Improvements

- Okeechobee Blvd. Adaptive Signal System
- Martin Luther King Jr Blvd Adaptive Signal and Passive Pedestrian Detection Implementation



Transit Signal Priority (TSP)/Emergency Vehicle Preemption (EVP)

- TSP (Palm Tran)/EVP (Fire-Rescue) funded through the TPA along US1 from Broward County Line to Northlake Blvd for \$2 million
- To be deployed next on Okeechobee Blvd. and SR7
- EVP Countywide
- One System that does both TSP/EVP
- Procurement is underway - Proposals due on May 16th



Traffic: Current and Future Projects

- EPW evaluated rail crossings safety at signalized intersections and identified the need to install advanced signals or “pre-signals” at 27 intersections
- State/State and State/Municipal road intersections were forwarded to FDOT for consideration (21 intersections)
- Municipal/Municipal intersections were forwarded to WPB for consideration
- EPW applied for \$1.0M Federal Safety Grant to install pre-signals at three railroad crossings on State/County intersections
 - Old Dixie Hwy. and Silver Beach Rd.
 - Alt A1A and Frederick Small Rd.
 - Federal Hwy. and Hypoluxo Rd.



Alt A1A and Frederick Small Rd

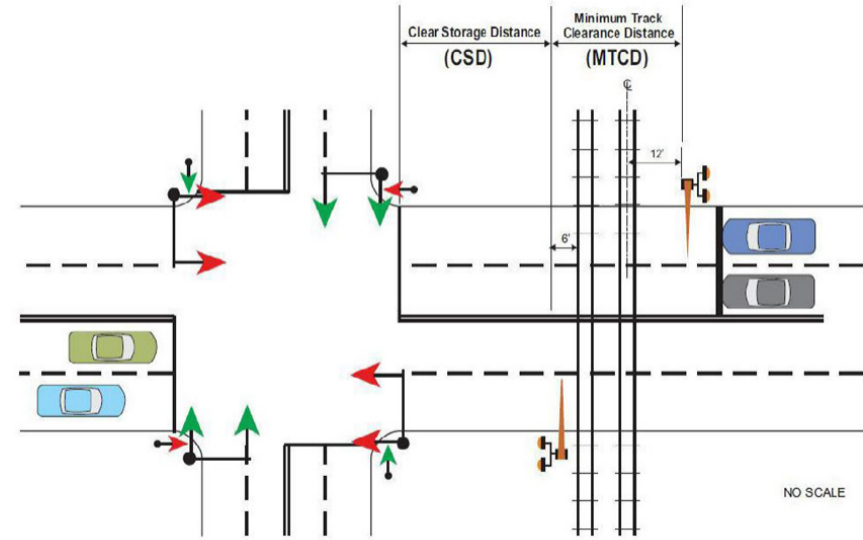


Figure 38. Clear Storage and Minimum Track Clearance Distance

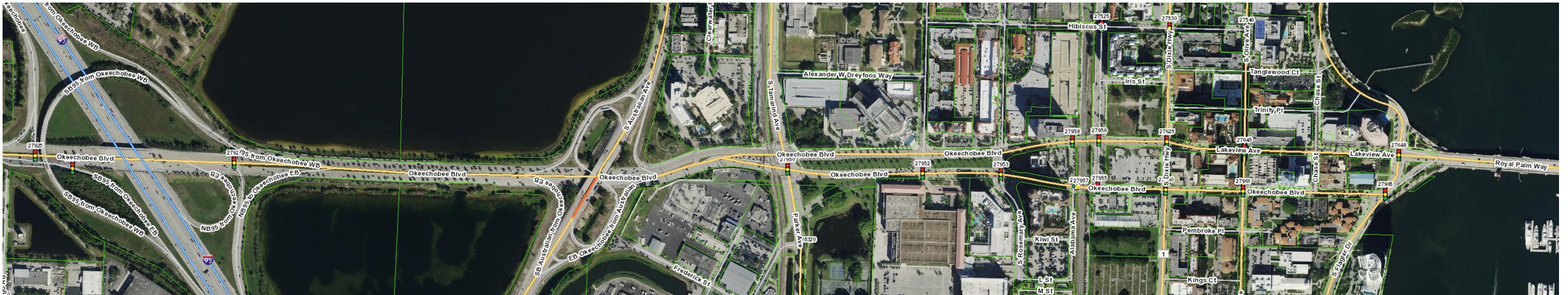
Source: AECOM, Inc.



Traffic: WPB Signal System Improvements

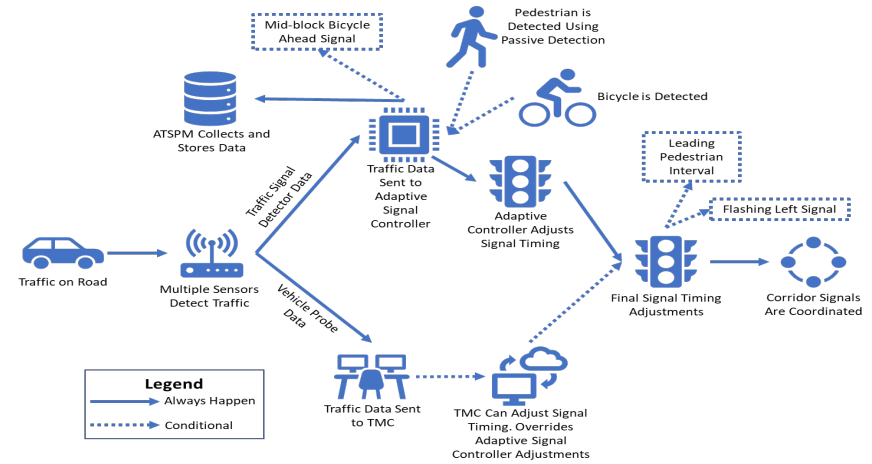
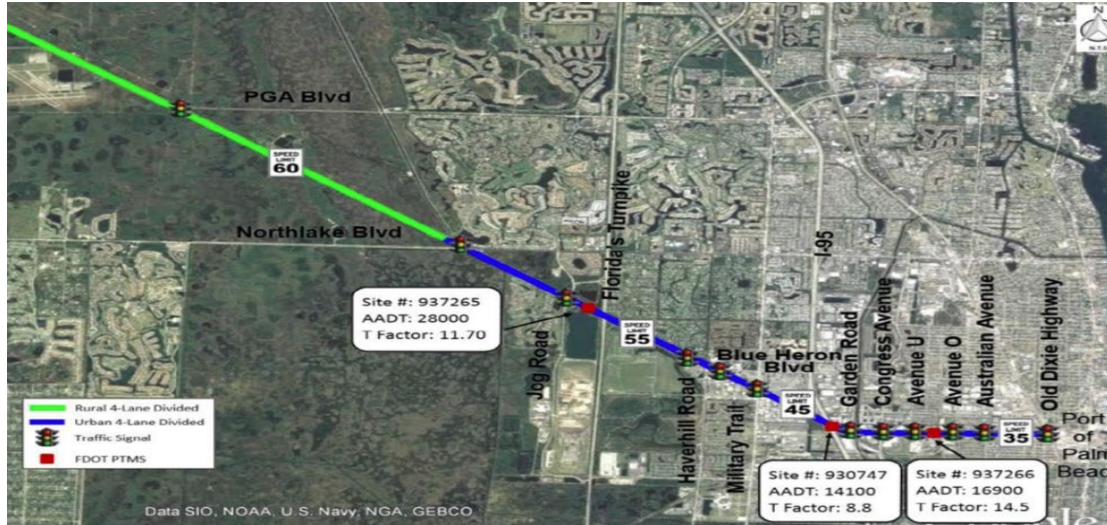
Okeechobee Blvd. Adaptive Signal System

- Signalization enhancements from I-95 to Flagler Drive to decrease travel time and improve safety
- 13 signals spanning 1.9 miles
- Hardware and software upgrades
- Cost is \$2.7M





Traffic: FDOT Project/Pilot – SR-710



Source: FDOT ConOps

Phase I (FY24 Construction)

- ATSPM, Adaptive Traffic Control System, passive pedestrian detection, bicycle detection/warning systems, FYA

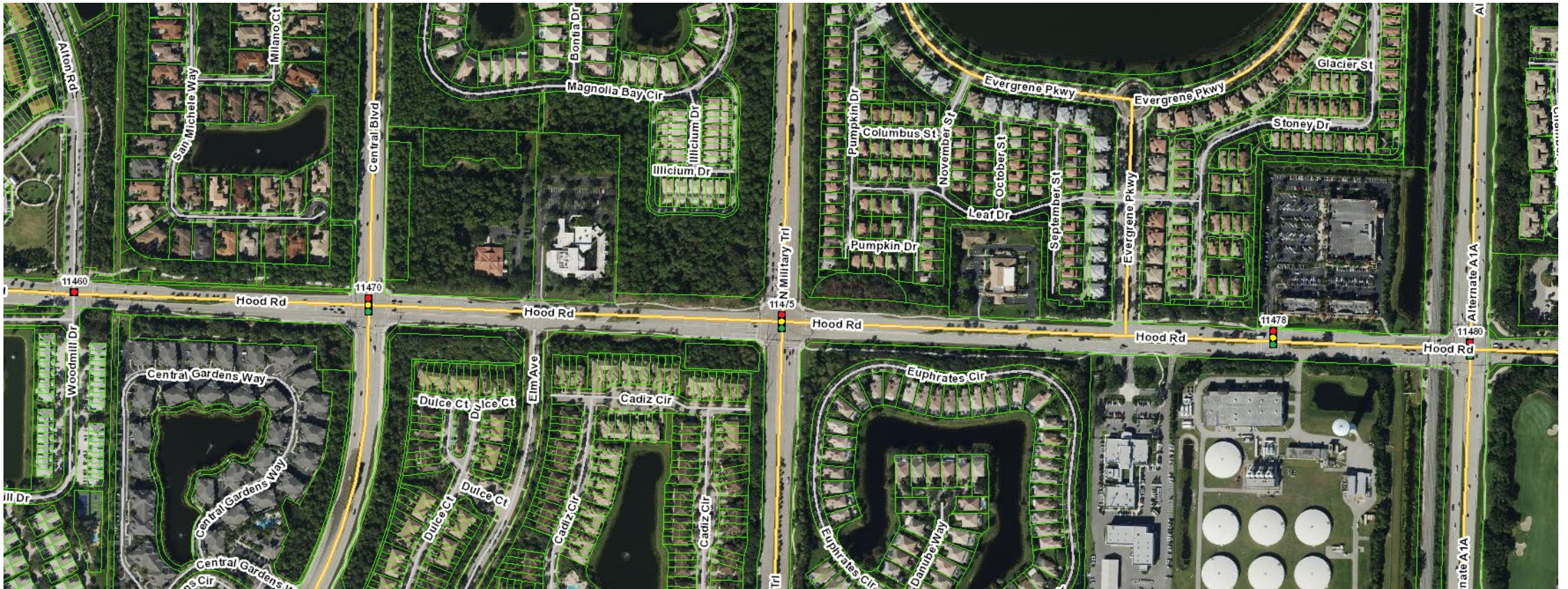
Future Phases (II & III)

- Connected Vehicle (CV) applications including red light violation warning, dynamic red light extension, active pedestrian crossing warning



Planned ATSC Deployments in PBC

- Palm Beach County's pilot Synchro Green deployment at 5 intersections – planning/design in progress





QUESTIONS?

COMMENTS?