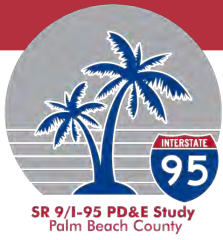


**City of Lake Worth Beach**  
***May 29, 2025***

## **Project Development and Environment (PD&E) Study for SR 9/I-95 from South of Linton Boulevard/CR 782 to North of SR 704/Okeechobee Boulevard**

Southern PD&E Study: Financial Project ID: 444202-1-22-02 | ETDM: 14508  
Northern PD&E Study: Financial Project ID: 444202-2-22-02 | ETDM: 14509

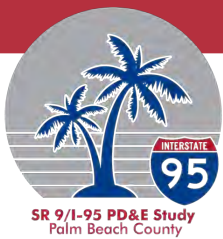




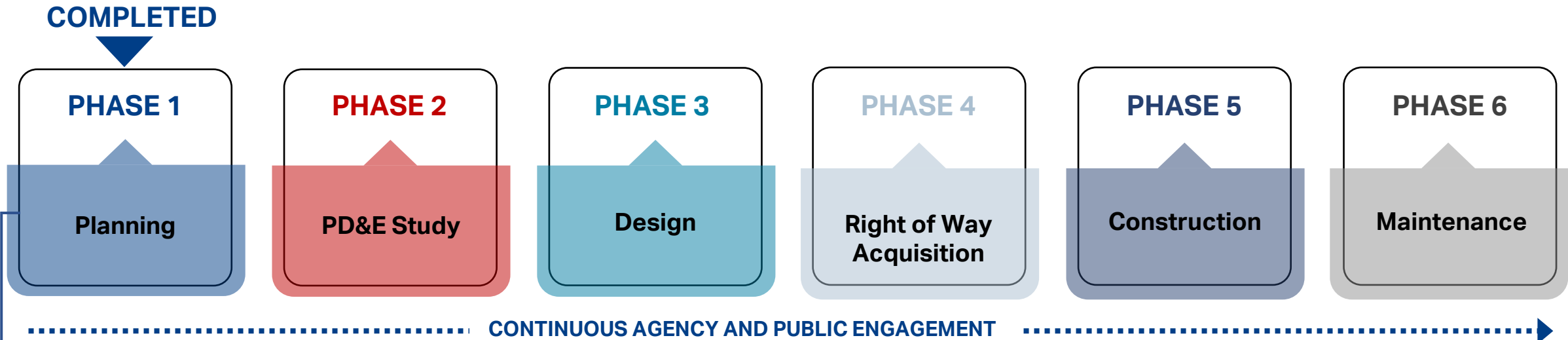
## Agenda

- ☐ Project Delivery Process
- ☐ What are Managed Lanes
- ☐ Master Plan Overview
- ☐ PD&E Studies
- ☐ PD&E Study Process
- ☐ Engineering
- ☐ Environmental
- ☐ Public Involvement
- ☐ Southern PD&E
- ☐ Northern PD&E
- ☐ Schedule
- ☐ Contact Information





# FDOT Transportation Project Delivery Process



I-95 Managed Lanes Master Plan

Completed in March 2019

## What are Managed Lanes

- ❑ Managed Lanes (ML) are an innovative solution to congestion management
- ❑ Limited access to specific vehicle classes by a toll or vehicle volume
- ❑ MLs are an alternative to increase capacity
- ❑ The Department will prioritize this approach to deploy a transportation system that is:
  - Safe
  - Accessible
  - Efficient
  - Resilient



Provide travel  
choices



Offer  
predictable  
travel times



Manage time  
congestion



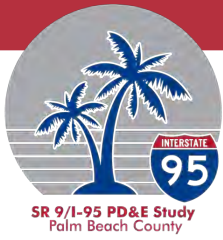
Reduce fuel  
consumption



Decrease air  
pollution



Support transit  
usage



# I-95 Managed Lanes Master Plan

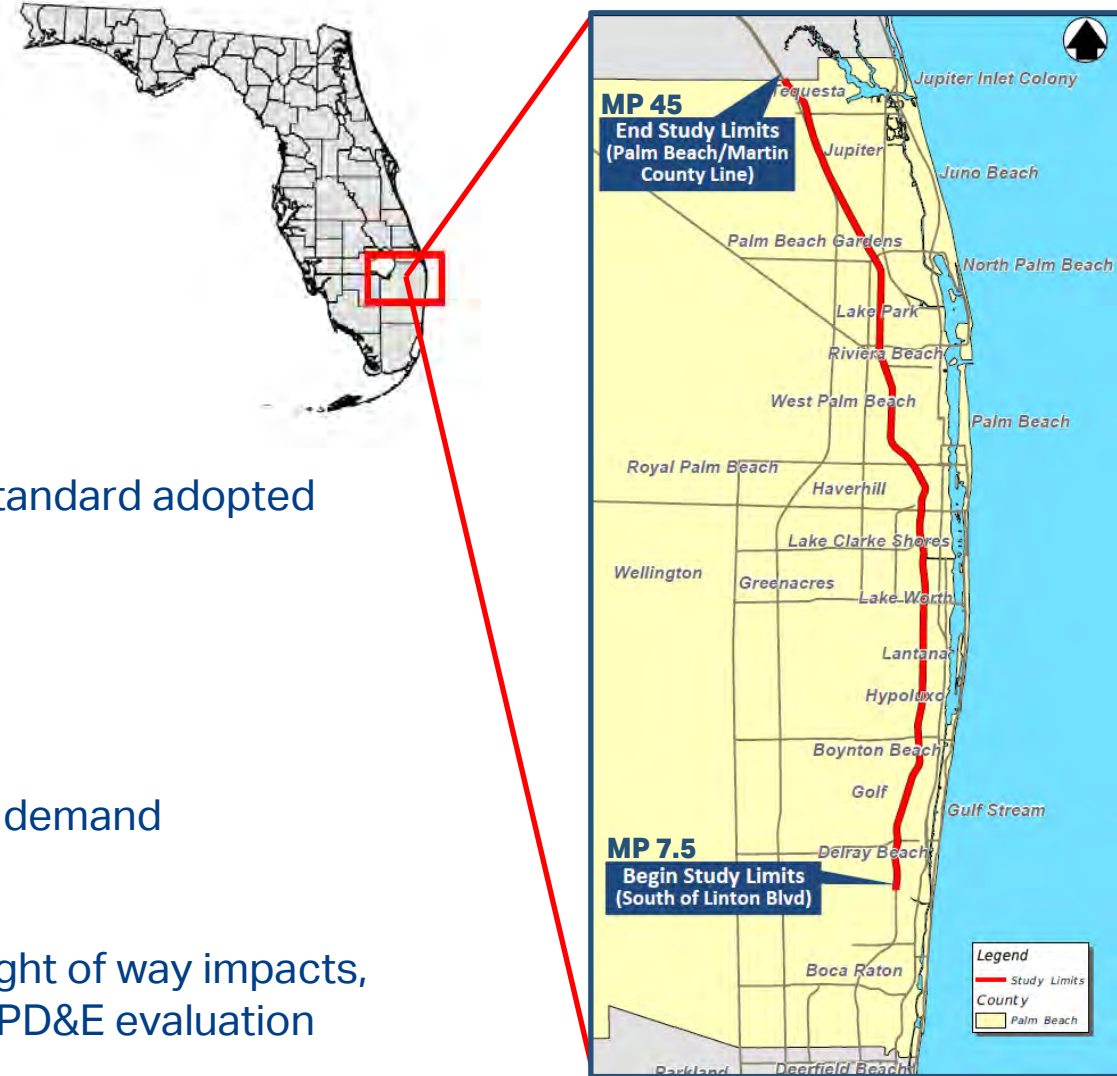
SOUTH OF LINTON BOULEVARD/CR 782 TO MARTIN COUNTY LINE

## ❑ Purpose

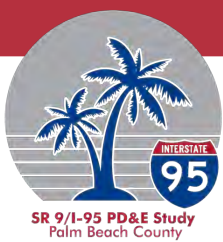
- Identify long-term capacity needs along the I-95 mainline
- Develop managed lanes design concepts
- Address segments operating below Level of Service (LOS) standard adopted as part of the Strategic Intermodal System (SIS)

## ❑ Study Objectives

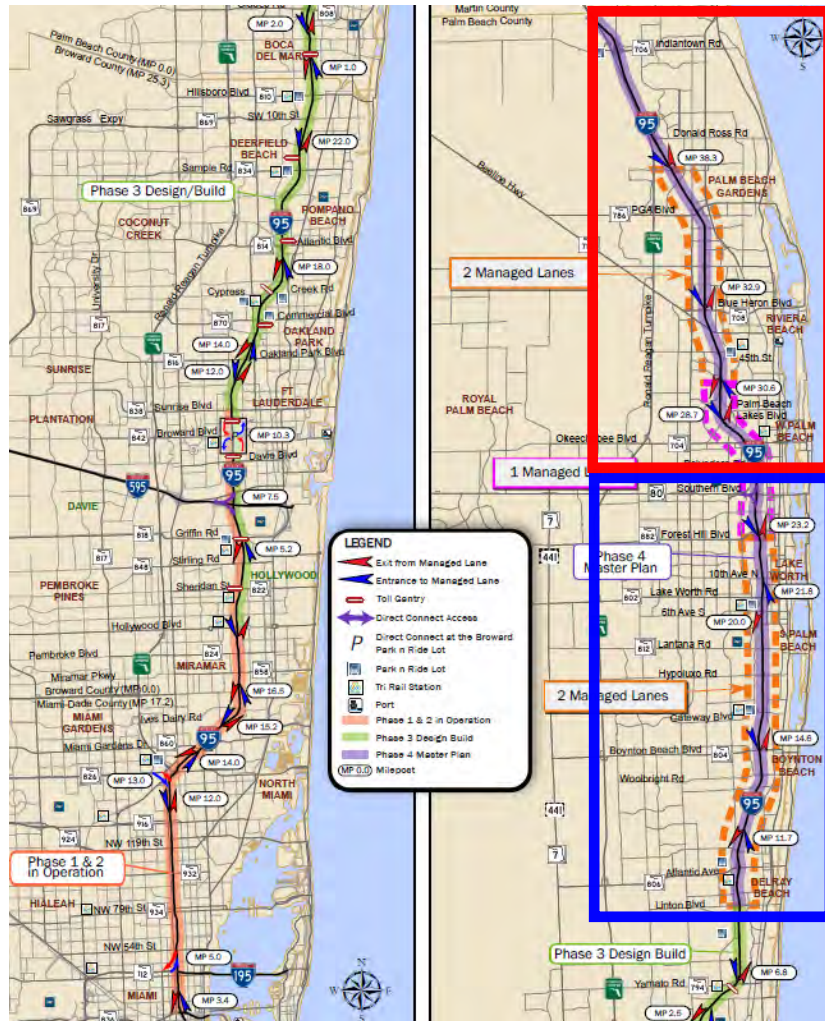
- Identify and document traffic operational deficiencies
- Develop an ultimate capacity improvement plan using traffic demand management and transit techniques
- Compare design constraints, benefits, construction costs, right of way impacts, interagency coordination, and recommendations for further PD&E evaluation







# I-95 Master Plan Access

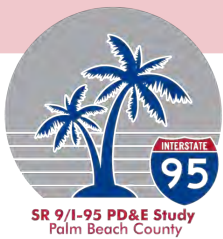


## South Segment

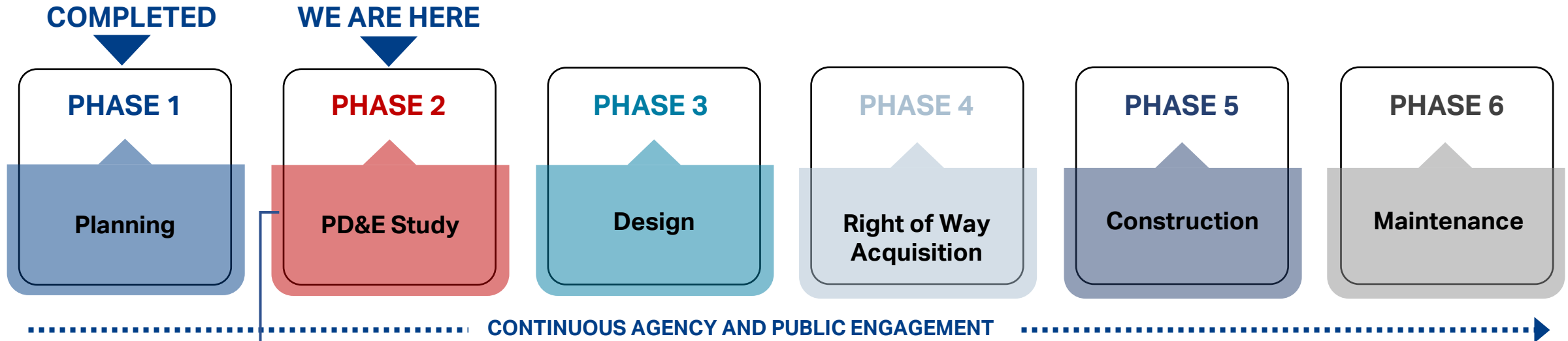


## North Segment





# FDOT Transportation Project Delivery Process



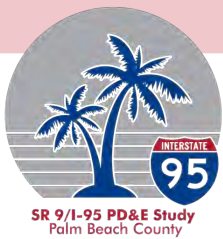
## Evaluate:

- ☐ Engineering Alternatives
- ☐ Environmental Impacts (Social, Cultural, Natural, and Physical Resources)

## Comply with:

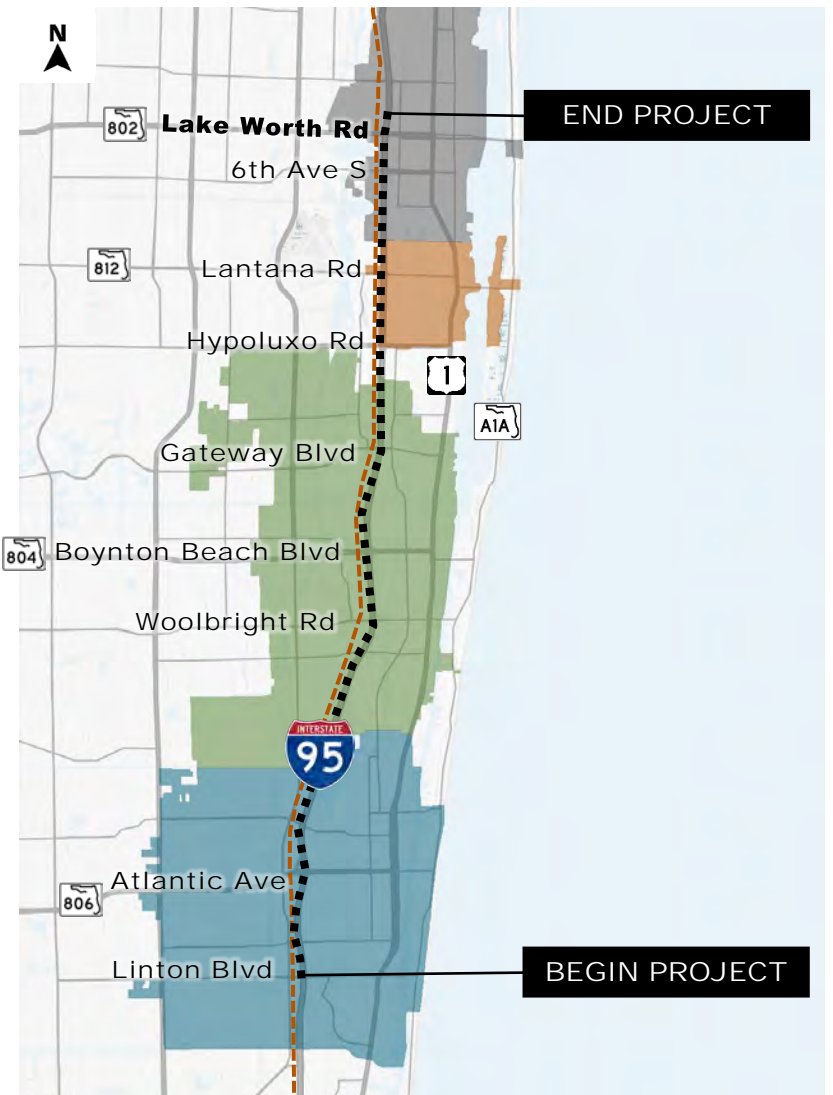
- ☐ National Environmental Policy Act (NEPA)
- ☐ Federal and State Environmental Laws
- ☐ Requirements Involving Federal Funding





PD&E STUDIES FOR SR 9/I-95 FROM SOUTH OF LINTON BOULEVARD/CR 782 TO NORTH OF SR 704/OKEECHOBEE BOULEVARD | Lake Worth Beach

SOUTHERN PD&E STUDY



PROJECT LOCATION

- Strategic Intermodal System (SIS) and National Highway System (NHS) Facility
- Emergency evacuation route

- Palm Beach County
- Project Corridor
- South Florida Rail Corridor

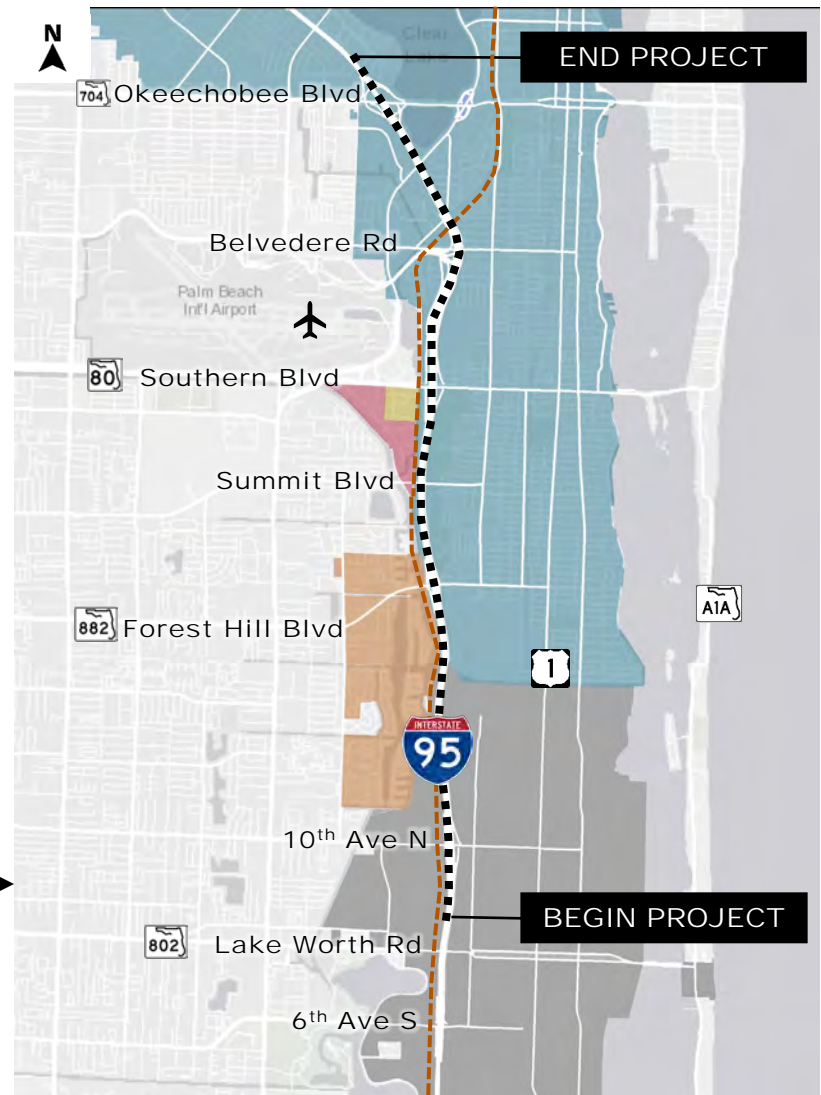
SOUTHERN PD&E STUDY

- Delray Beach
- Boynton Beach
- Lantana
- Lake Worth Beach

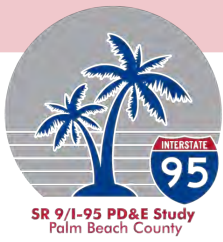
NORTHERN PD&E STUDY

- Lake Worth Beach
- Lake Clarke Shores
- Glen Ridge
- Cloud Lake
- West Palm Beach

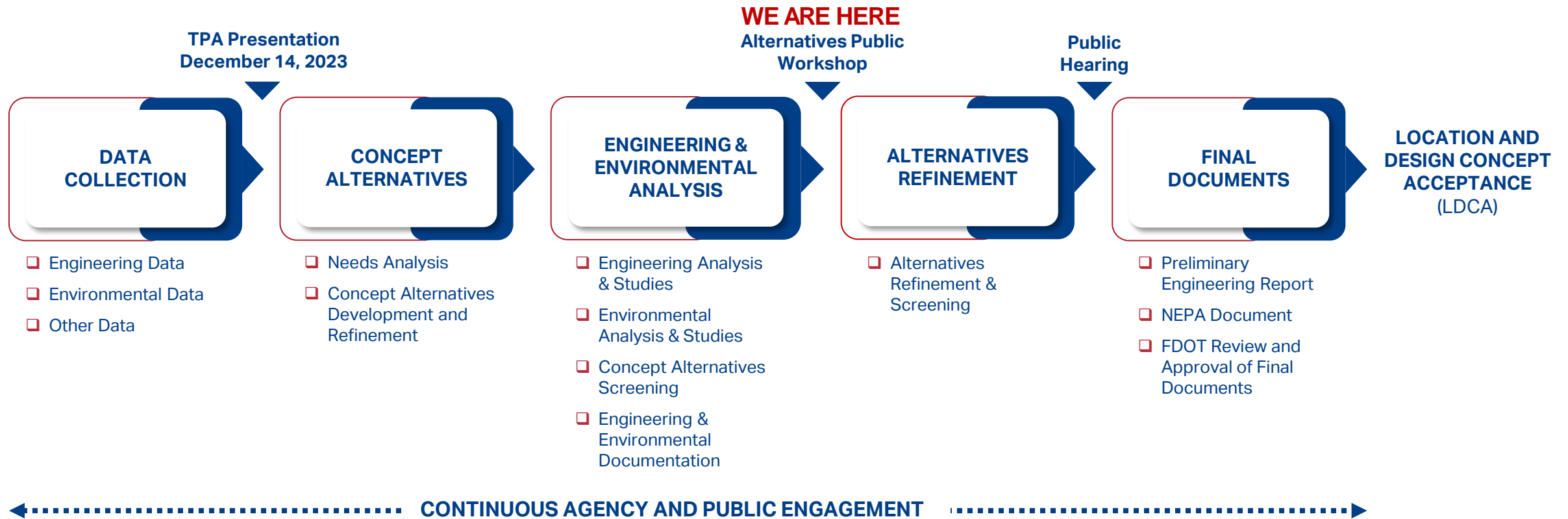
NORTHERN PD&E STUDY

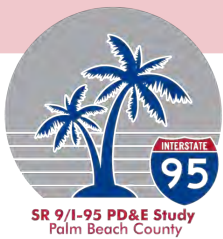






## PD&E Study Process





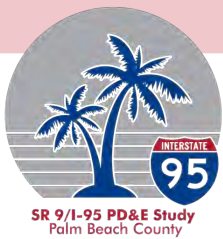
## PD&amp;E STUDIES FOR SR 9/I-95 FROM SOUTH OF LINTON BOULEVARD/CR 782 TO NORTH OF SR 704/OKEECHOBEE BOULEVARD | Lake Worth Beach

## Engineering

- ❑ Roadway Geometry
- ❑ Roadway Capacity
- ❑ Safety
- ❑ Traffic Operations
- ❑ Drainage
- ❑ Structures
- ❑ Right-of-Way Requirements
- ❑ Ingress and Egress Access Points
- ❑ Multimodal Considerations
- ❑ Cost





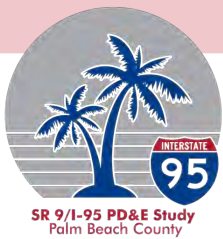


## Environmental

- ☐ Socio-Cultural Evaluation
- ☐ Economic Assessment
- ☐ Land Uses (Existing/Future)
- ☐ Cultural Resources Assessment
- ☐ Recreational Resources
- ☐ Wetlands Evaluation
- ☐ Mobility
- ☐ Water Quality Assessment
- ☐ Wildlife and Habitat Assessment
- ☐ Noise Study
- ☐ Air Quality
- ☐ Contamination Screening Evaluation







## Public Involvement

- ☐ Public Involvement Plan (PIP)
- ☐ Project Kick-off Meeting
- ☐ Elected Official Meetings
- ☐ Agency Meetings
- ☐ Public Workshop
- ☐ Community Presentations
- ☐ Public Hearing
- ☐ Project Website

## Objectives

- Maintain consistent messaging and transparency
- Understand community concerns
- Create opportunities to engage virtually and in-person
- Coordinate with adjacent projects
- Continuous communication through the life of the projects

## Agencies and Stakeholders Coordination

### ☐ Federal and State Agencies

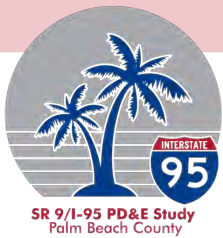
- Federal Highway Administration
- Federal Emergency Management Agency
- Federal Rail Administration
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- Environmental Protection Agency
- Natural Resources Conservation Service
- Florida Department of Transportation Office of Environmental Management
- Division of Historical Resources
- Department of Agriculture and Consumer Services
- Environmental Protection Agency
- Department of Environmental Protection
- Fish and Wildlife Conservation Commission

### ☐ Local Agencies

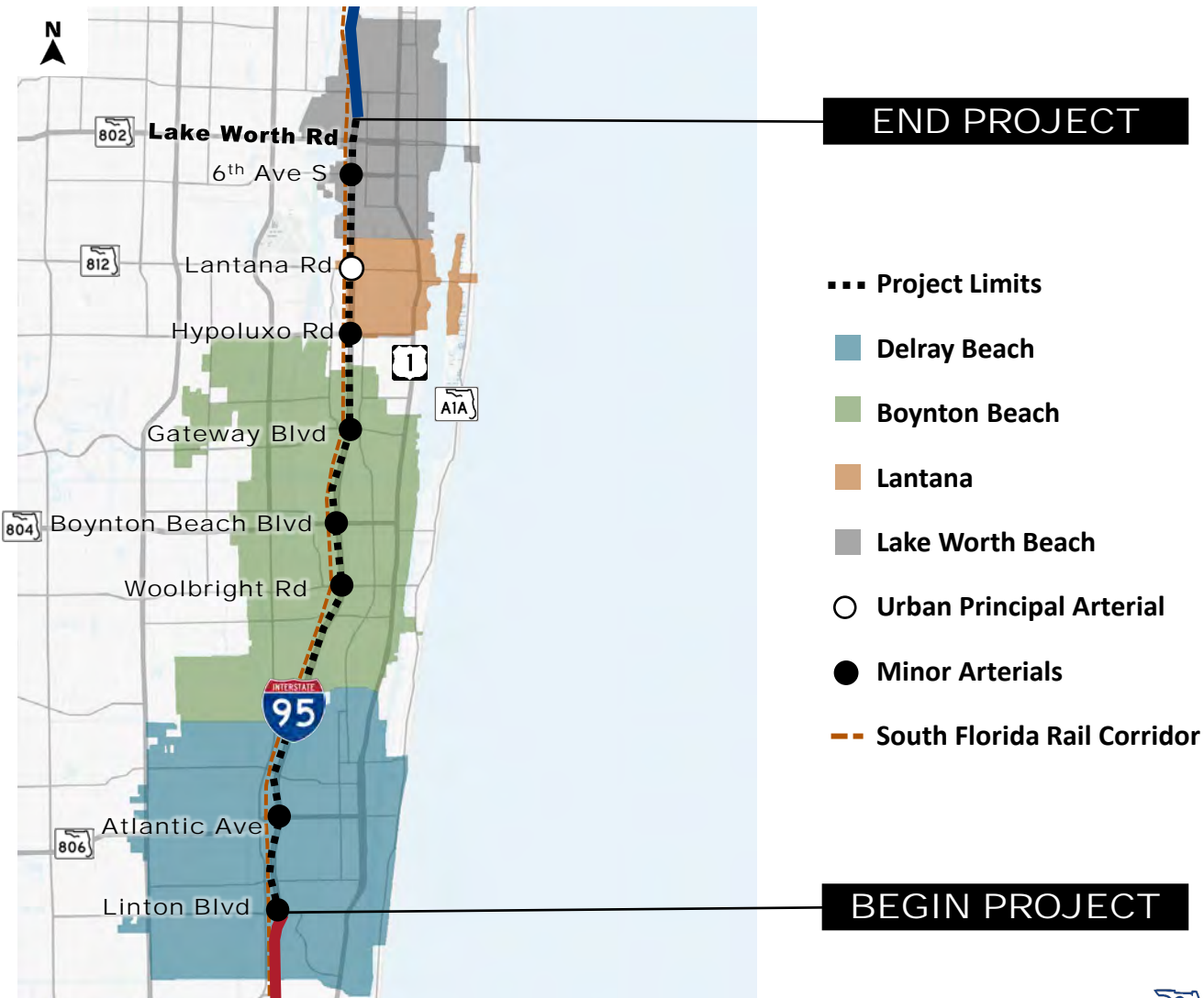
- Palm Beach County
- Palm Beach Transportation Planning Agency and Committees
- Cities/Towns/Municipalities
- Florida Chamber of Commerce
- South Florida Regional Transportation Authority
- South Florida Water Management District
- Treasure Coast Regional Planning Council

### ☐ Other Stakeholders

- Parks and Recreation
- Associations
- Major Businesses
- Schools
- Hospitals



## PD&amp;E STUDIES FOR SR 9/I-95 FROM SOUTH OF LINTON BOULEVARD/CR 782 TO NORTH OF SR 704/OKEECHOBEE BOULEVARD | Lake Worth Beach



## Southern PD&E Study

### FPID 444202-1-22-02

PD&E Study from South of Linton Boulevard/CR 782 to North of 6<sup>th</sup> Avenue South (approximately 13.5 miles)

**Anticipated completion: Spring 2027**

## Adjacent Projects

### FPID 444202-2-22-02

PD&E Study from North of 6<sup>th</sup> Avenue South to North of SR 704/Okeechobee Boulevard

**Anticipated completion: Spring 2027**

### FPID 433109-5-52-01

Phase 3B from Glades Road to Linton Boulevard/CR 782

**Construction completed**

## Purpose and Need

The primary purpose of this study is to find ways to improve the roadway so that traffic flows smoothly both now and in the future. The study will look at ways to make the road safer and improve traffic movements for several modes of transportation such as cars, buses, motorcycles, and trucks.

Project alternatives consist of additional travel lanes and safety enhancements to how vehicles enter and exit the expressway.



**Increase  
Capacity to  
Meet Travel  
Demand**

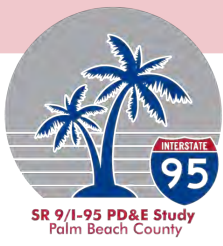


**Operational  
and Safety  
Needs**

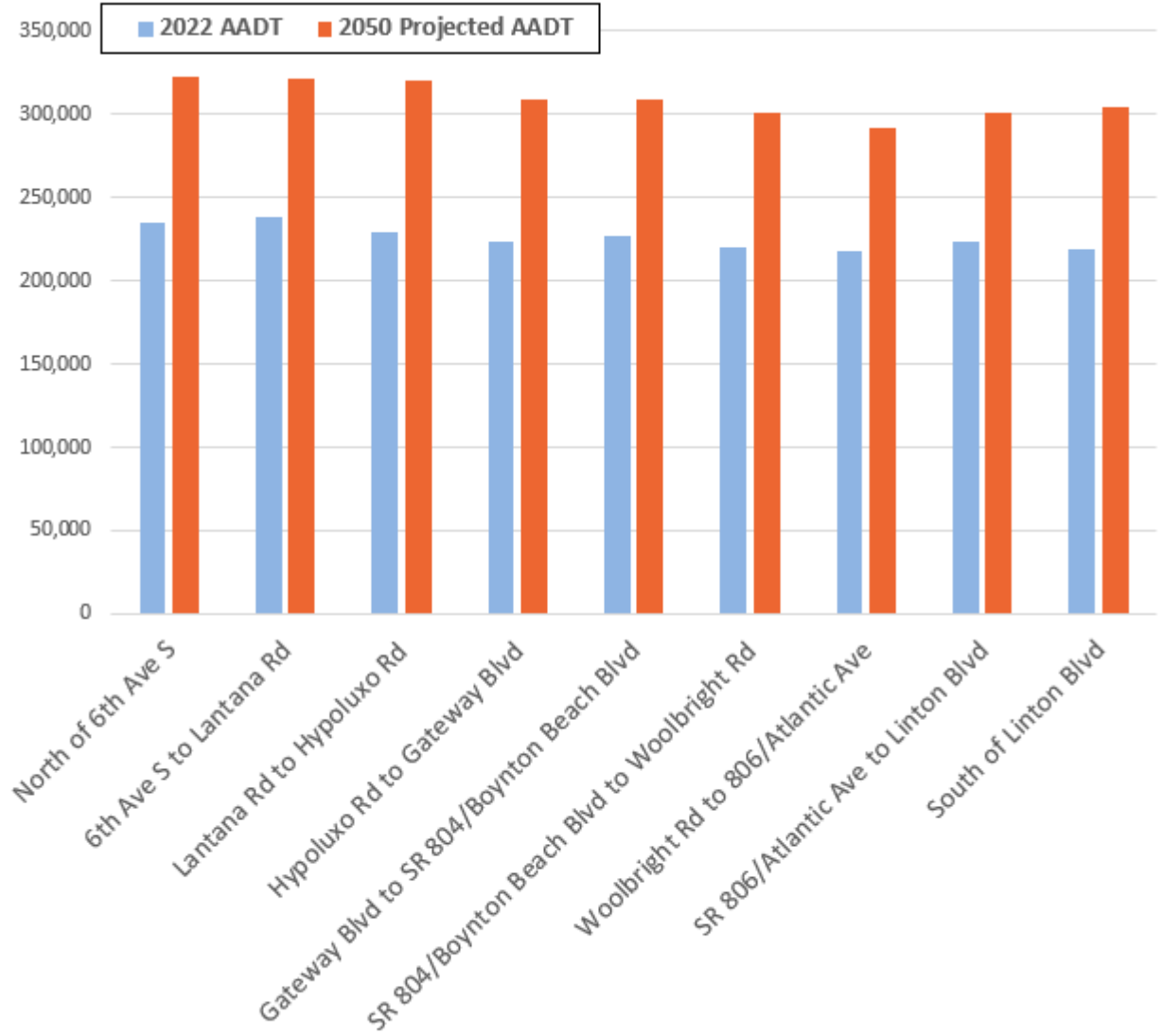
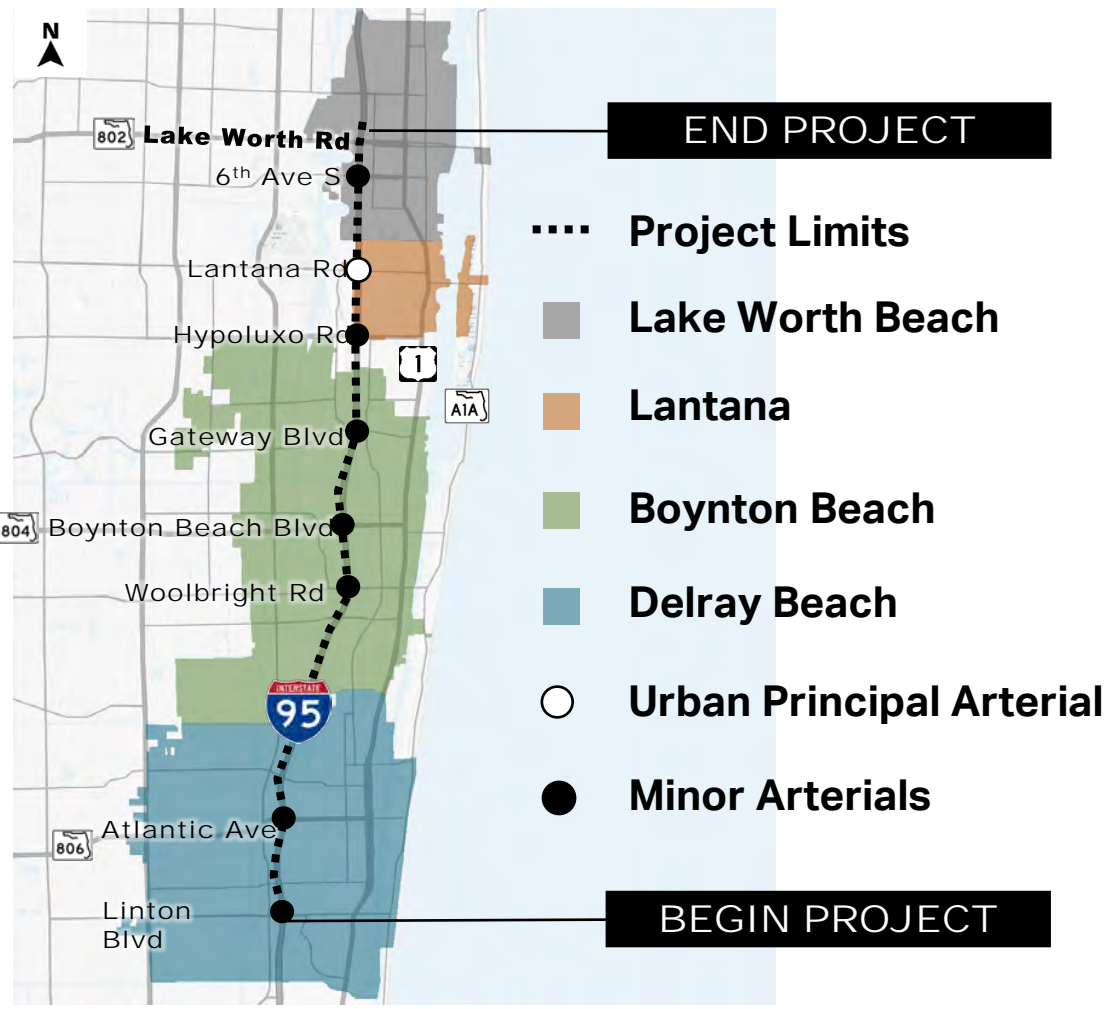


**Modal  
Interrelationships**





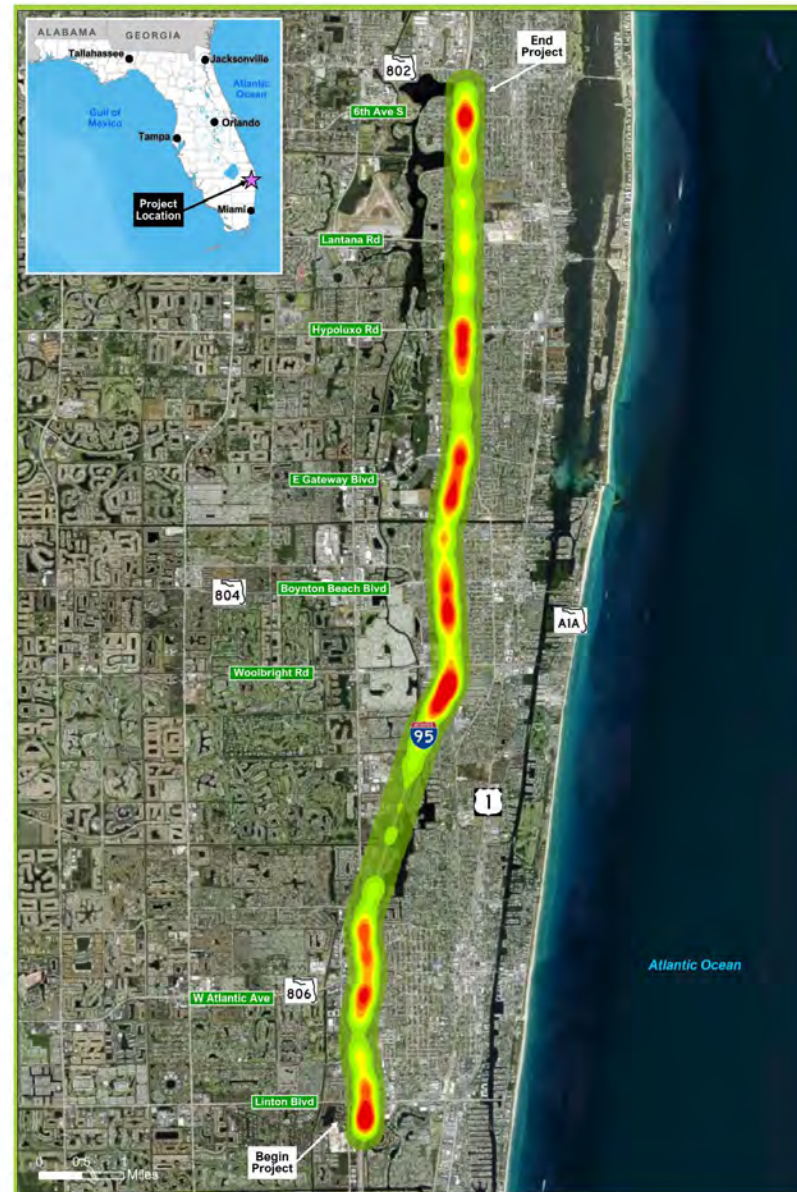
# Traffic

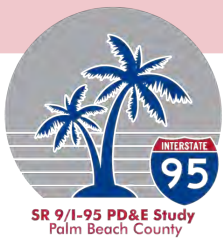


*\*Annual Average Daily Traffic (AADT) - the average number of vehicles that drive on the road in both directions each day over a full year.*

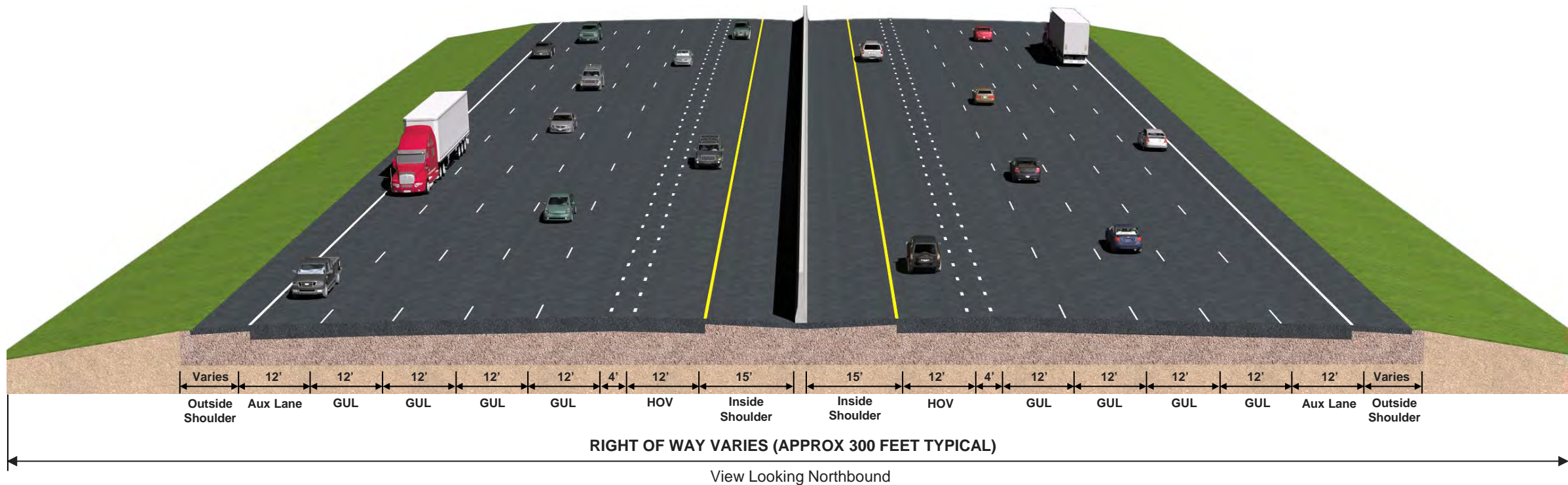
## Historical Crash Data (2019-2023)

- ❑ 6,362 crashes in a 5-year period
- ❑ Fatal crashes accounted for 0.5%
- ❑ Rear end crashes are most common at 43.5%
- ❑ Sideswipe crashes at 20.6%



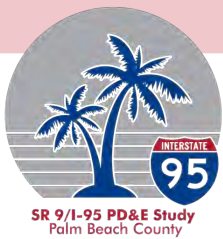


# I-95: Existing Typical Section



- ❑ 15-foot-wide inside shoulder
- ❑ 2 High Occupancy Vehicle (HOV) Lanes, 12-foot-wide
- ❑ 4-foot-wide separation
- ❑ 8 General Use Lanes (GUL), 12-foot-wide
- ❑ 2 Auxiliary Lane (Aux Lane), 12-foot-wide
- ❑ Varied width outside shoulder
- ❑ 65 mph posted speed limit
- ❑ SFRC/CSX Railway parallel to I-95 along west side



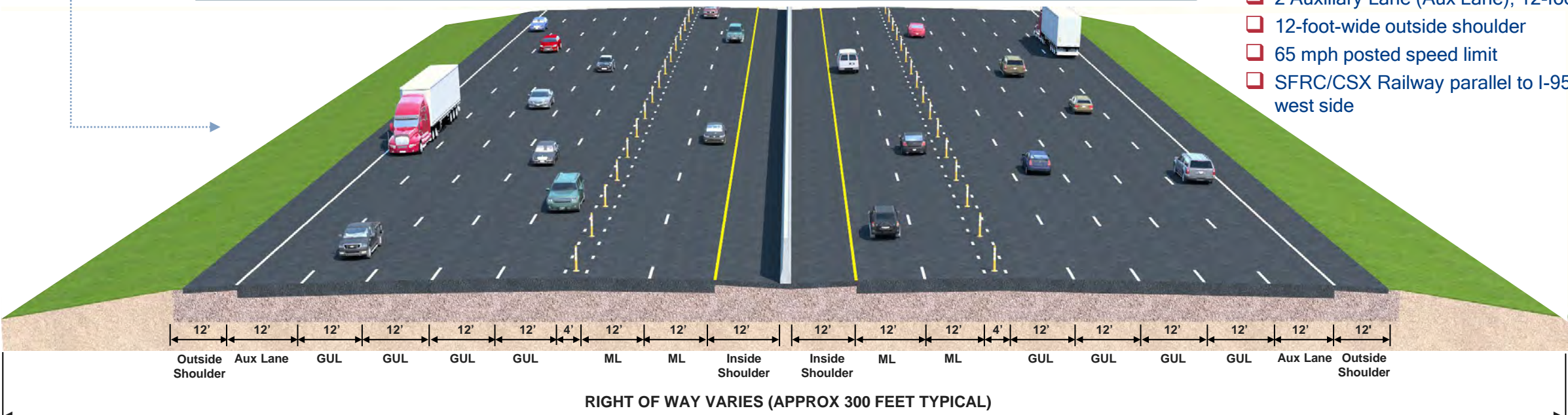


# Alternatives Evaluation

- ☒ **No-Action (or No-Build) Alternative**
- ☒ **Transportation System Management and Operations (TSM&O) Alternative**
- ☒ **Master Plan Concept**
  - Build Alternative** - *widen to provide an additional managed lane along with improvement such as:*
    - Auxiliary Lane*

**ALTERNATIVE  
CONSIDERED BUT  
ELIMINATED**

- ☐ 12-foot-wide inside shoulder
- ☐ 4 Manage Lanes (ML), 12-foot-wide
- ☐ 4-foot-wide separation
- ☐ 8 General Use Lanes (GUL), 12-foot-wide
- ☐ 2 Auxiliary Lane (Aux Lane), 12-foot-wide
- ☐ 12-foot-wide outside shoulder
- ☐ 65 mph posted speed limit
- ☐ SFRC/CSX Railway parallel to I-95 along west side



View Looking Northbound



# I-95 mainline with Access Points: For all Build Alternatives



## Proposed Managed Lanes Access Points

### Northbound

- **Entrance** provided from Atlantic Avenue and interchanges to the south
- **Exit** provided to Gateway Boulevard and interchanges to the north

### Southbound

- **Entrance** provided from Gateway Boulevard and interchanges to the north
- **Exit** provided to Atlantic Avenue and interchanges to the south

## Legend

- ■ ■ ■ Project Limits
- Urban Principal Arterial
- Minor Arterials
- ➡ Managed Lanes Entrance
- ➡ Managed Lanes Exit

# Public Involvement

## Public Meetings

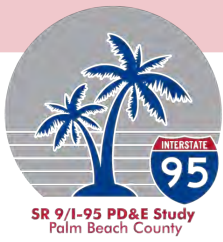
- ☐ Public Kick off Presentation: December 2023
- ☐ Alternative Public Workshops:
  - Virtual:* Wednesday, July 23, 2025
  - In-Person:* Tuesday, July 22, 2025
  - Thursday, July 24, 2025
- ☐ Public Hearing: (Anticipated) Fall 2026



- Attend Public Meetings
- Provide Your Input
- Visit the Project Webpage







## Northern PD&E Study

**FPID 444202-2-22-02**

PD&E Study from North of 6<sup>th</sup> Avenue South to North of SR 704/Okeechobee Boulevard (approximately 7 miles)

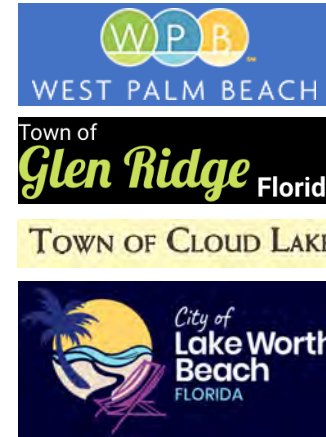
**Anticipated completion: Spring 2027**

## Adjacent Projects

**FPID 444202-1-22-02**

PD&E Study from South of Linton Boulevard/CR 782 to North of 6<sup>th</sup> Avenue South

**Anticipated completion: Spring 2027**



West Palm Beach

Glen Ridge

Cloud Lake

Lake Worth

Lake Clarke Shores

Urban Principal Arterial

Minor Arterials

South Florida Rail Corridor

Interchanges to be evaluated

Project Limits



## Purpose and Need

Increase capacity by adding managed lanes in each direction on I-95 segment between 6th Avenue South and Okeechobee Boulevard and alleviate congestion in the Southern Boulevard interchange.

Additionally, it aims to find improvements to the issues that impact roadway traffic. These issues may include capacity, modal interrelationships, and safety.



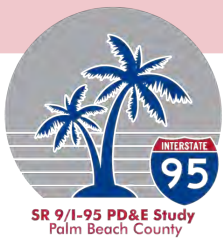
**Increase  
Capacity to  
Meet Travel  
Demand**



**Operational  
and Safety  
Needs**



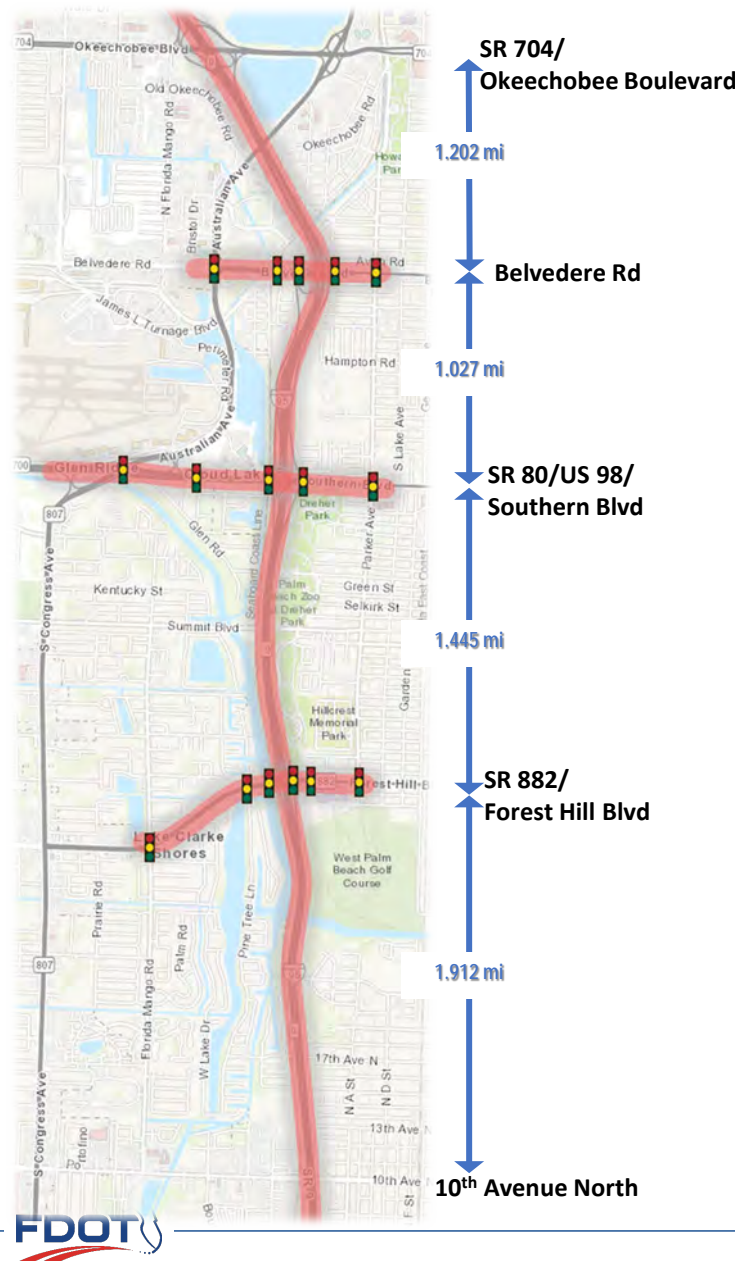
**Modal  
Interrelationships**



## PD&amp;E STUDIES FOR SR 9/I-95 FROM SOUTH OF LINTON BOULEVARD/CR 782 TO NORTH OF SR 704/OKEECHOBEE BOULEVARD | Lake Worth Beach

# Traffic

- ❑ Annual Average Daily Traffic (AADT) Volumes are projected to increase approximately 29%
- ❑ For the no-build condition, the projected AADT for year 2050 is between **292,600** and **332,500** vehicles per day
- ❑ For a No-Build condition, by the year 2050, several freeway segments will operate at **Level of Service (LOS) E** or **F** for at least one peak hour period
- ❑ During morning hours (AM), northbound traffic presents more congestion; It is predicted/estimated to get worse by 2050
- ❑ During afternoon hours (PM), southbound traffic is more congested; It is predicted/estimated to get worse by 2050



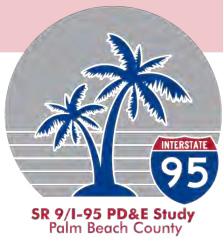
NOT TO SCALE

- Area of Influence
- Signalized Intersections
- Stop Controlled Intersections

## Levels of Service

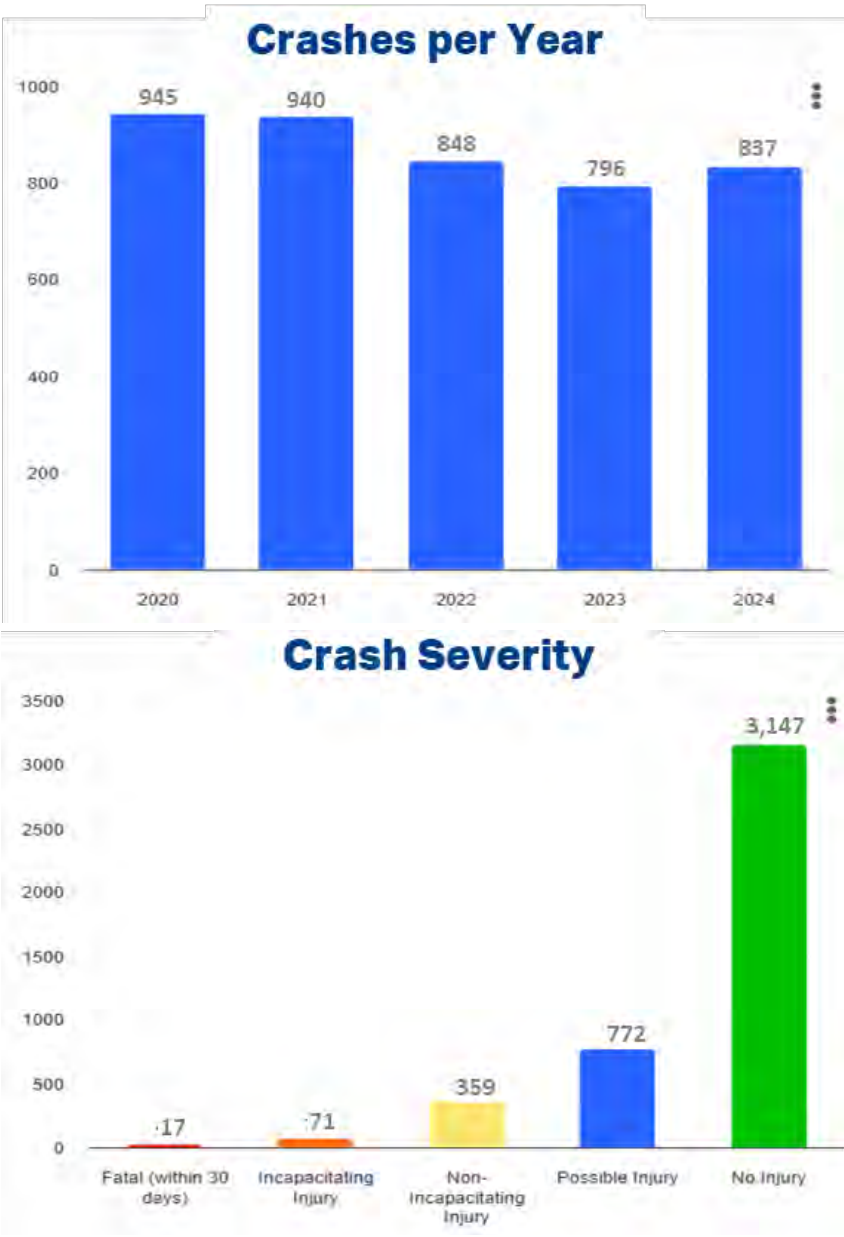
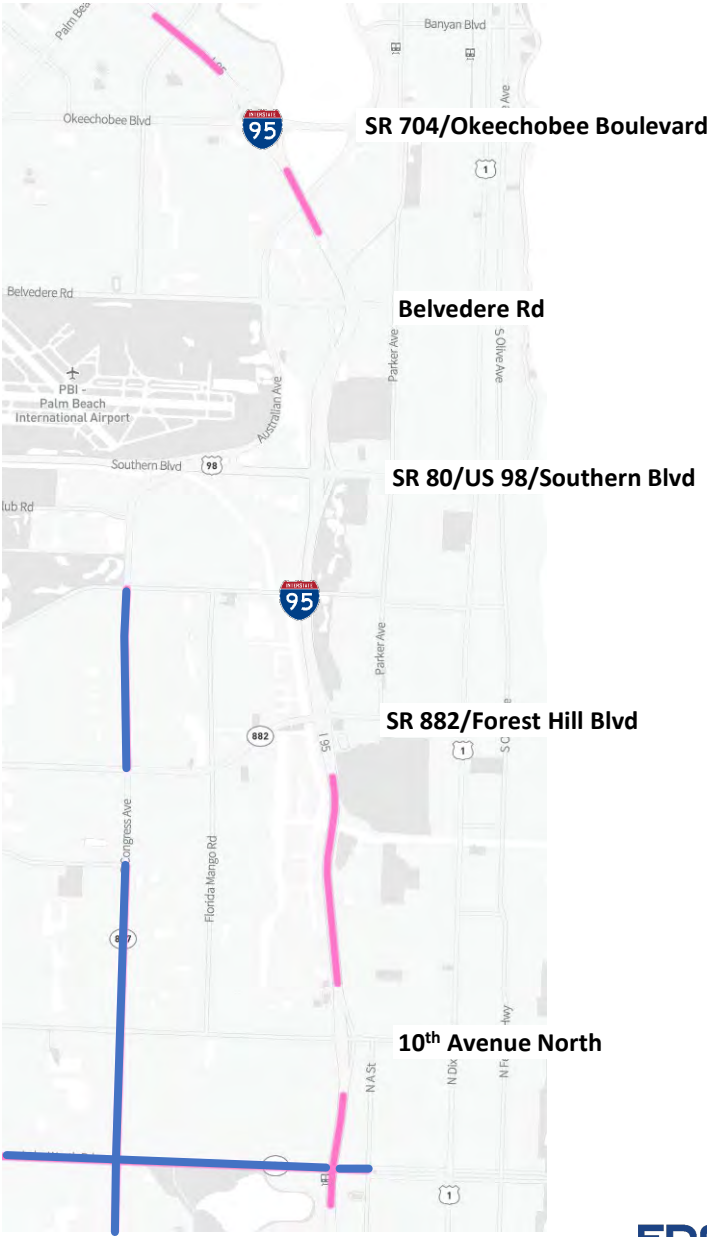
FREE FLOW Low volumes and no delays.	LOS A	
STABLE FLOW Speeds restricted by travel conditions, minor delays.	LOS B	
STABLE FLOW Speeds and maneuverability closely controlled because of higher volumes.	LOS C	
STABLE FLOW Speeds considerably affected by change in operation conditions. High density traffic restricts maneuverability, volume near capacity.	LOS D	
UNSTABLE FLOW Low speeds, considerable delay; volume at or slightly over capacity.	LOS E	
FORCED FLOW Very low speeds; volumes exceed capacity; long delays with stop-and-go traffic.	LOS F	





PD&E STUDIES FOR SR 9/I-95 FROM SOUTH OF LINTON BOULEVARD/CR 782 TO NORTH OF SR 704/OKEECHOBEE BOULEVARD | Lake Worth Beach

# Safety

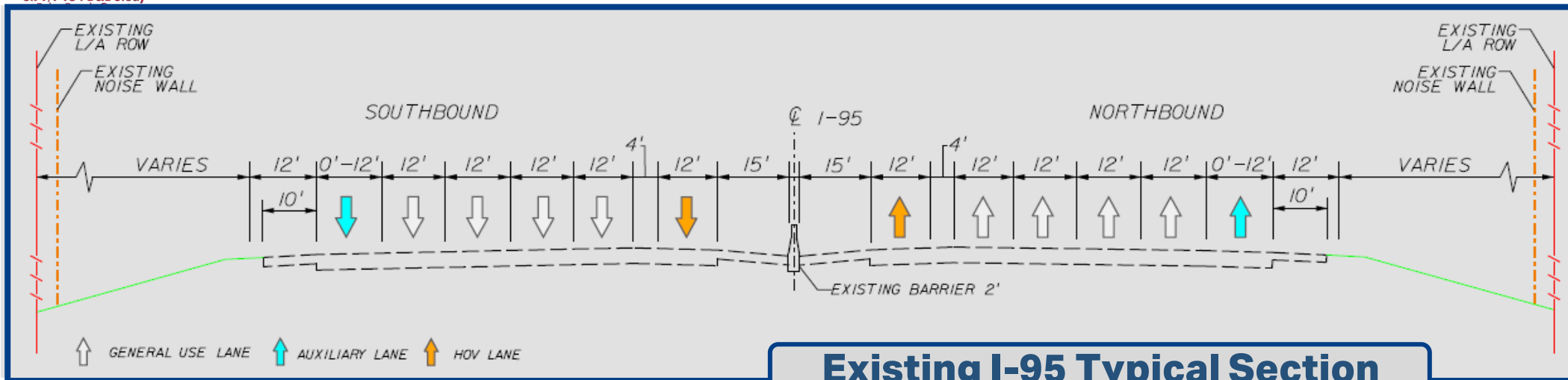




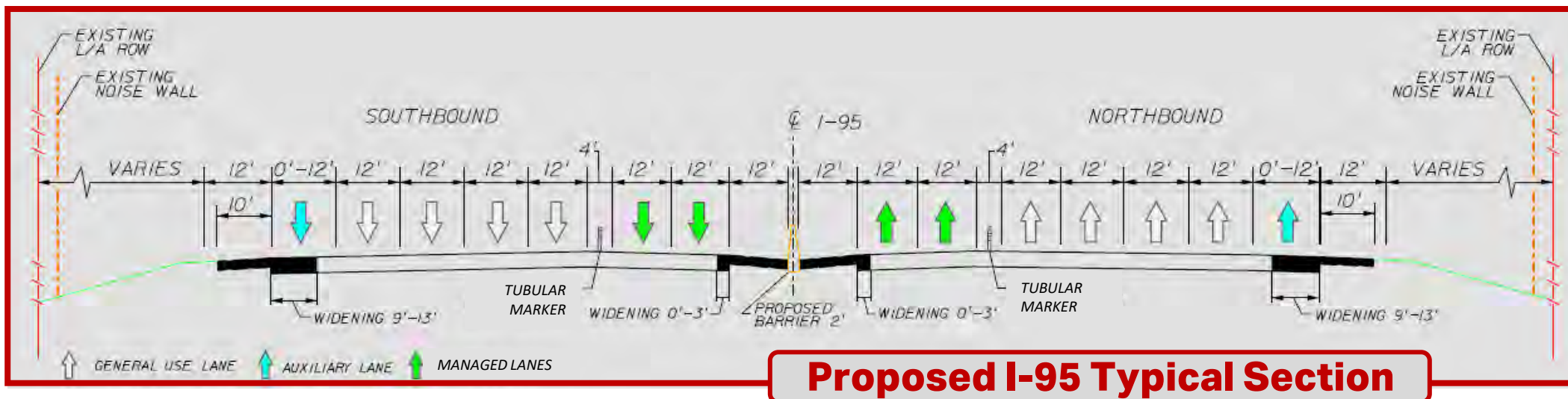


SR 9/I-95 PD&E Study

# I-95: For all Build Alternatives (1 thru 8)

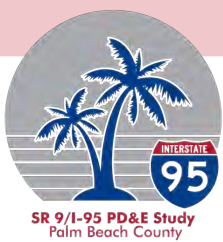


- 8 General Use Lanes, 12-foot-wide
- 2 High Occupancy Vehicle (HOV) Lanes, 12-foot-wide
- 4-foot-wide separation
- 65 mph posted speed limit
- SFRC/CSX Railway parallel to I-95 along west side
- 15-foot-wide inside shoulder

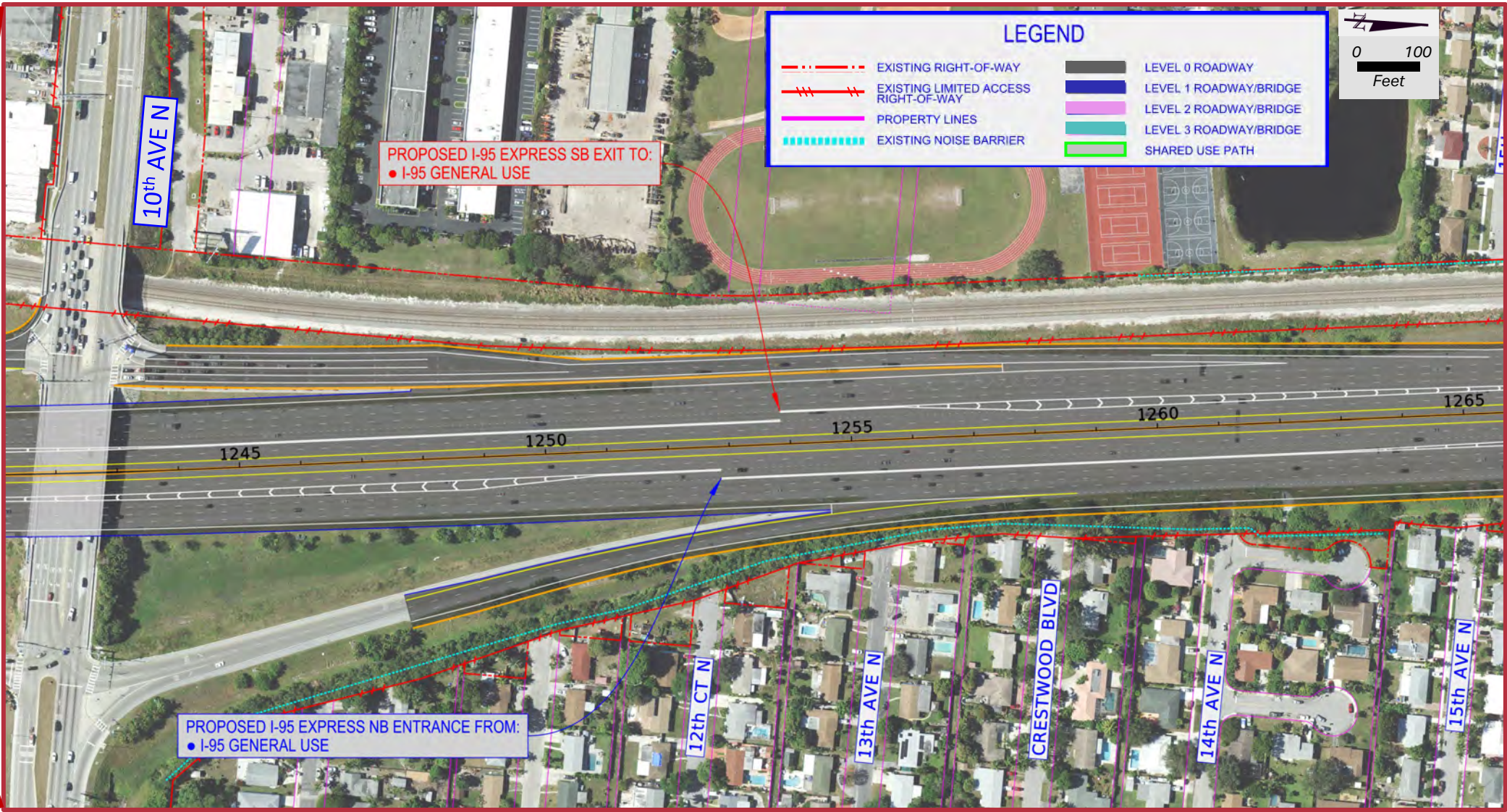
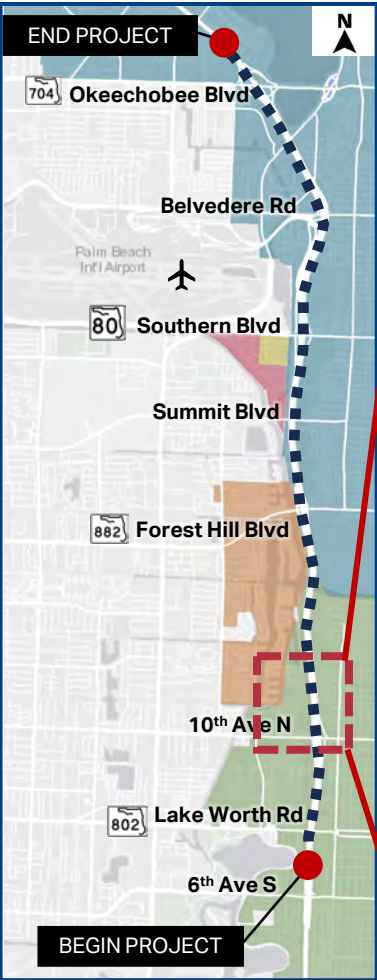


- 8 General Use Lanes, 12-foot-wide
- 4 Managed Lanes, 12-foot-wide
- 4-foot-wide separation
- 65 mph posted speed limit
- SFRC/CSX Railway parallel to I-95 along west side
- 12-foot-wide inside shoulder

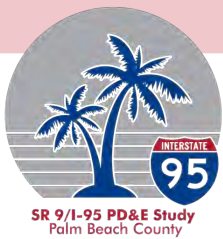




# I-95 mainline with Access Points: For all Build Alternatives

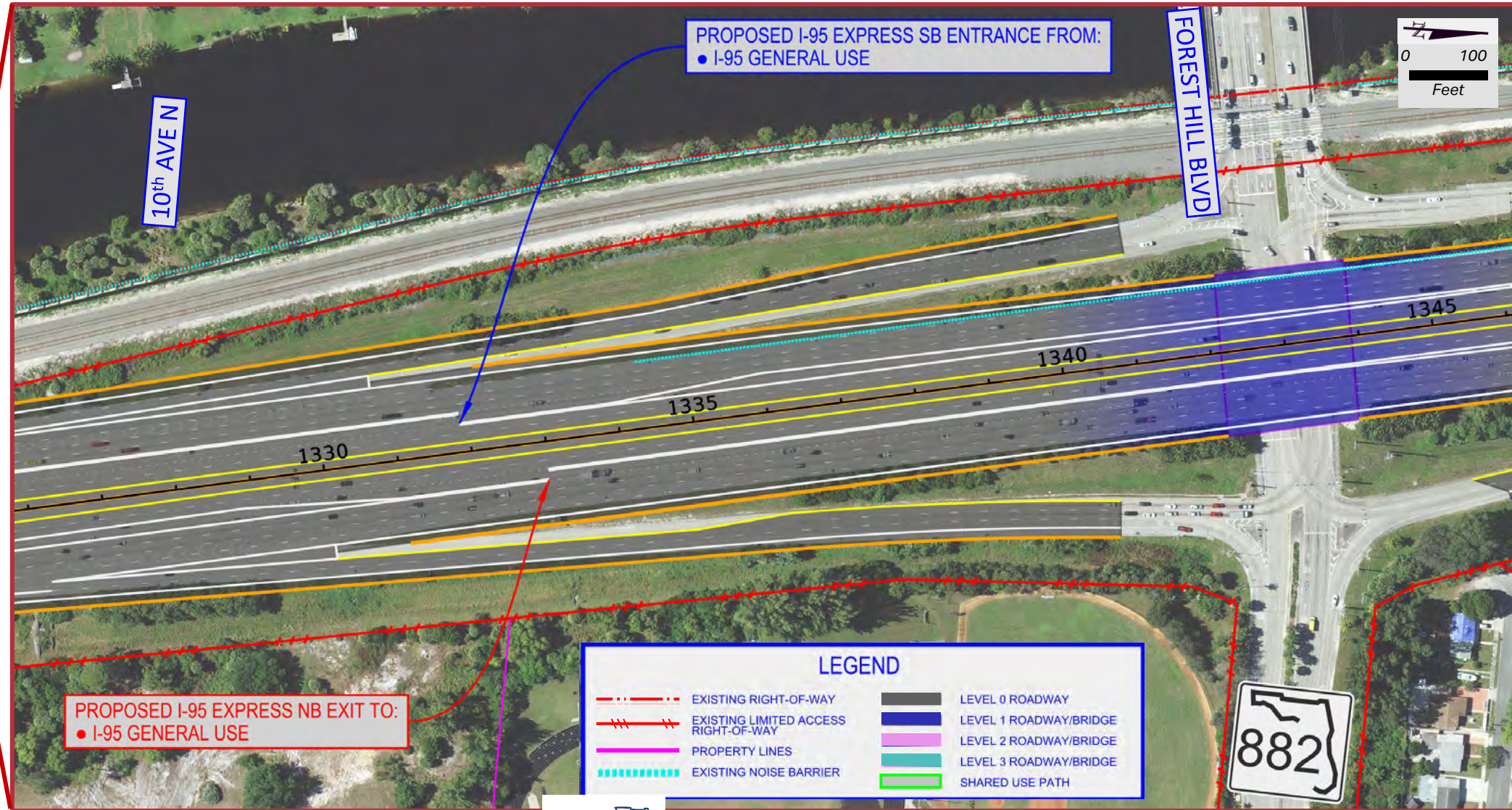
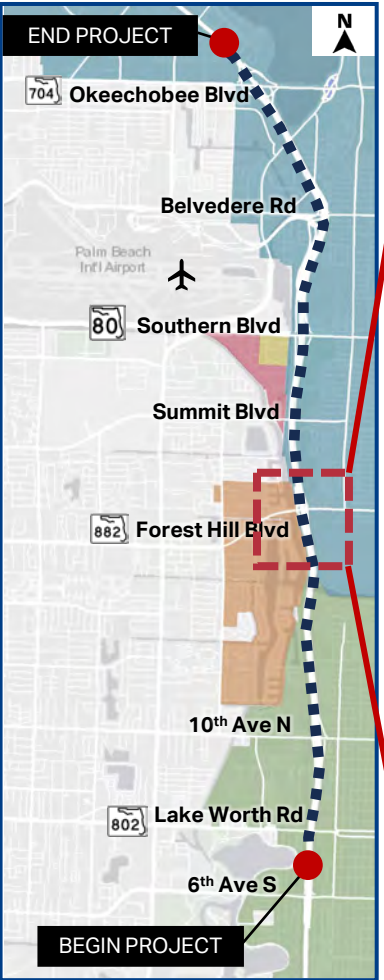






PD&E STUDIES FOR SR 9/I-95 FROM SOUTH OF LINTON BOULEVARD/CR 782 TO NORTH OF SR 704/OKEECHOBEE BOULEVARD | Lake Worth Beach

# I-95 mainline with Access Points: For all Build Alternatives

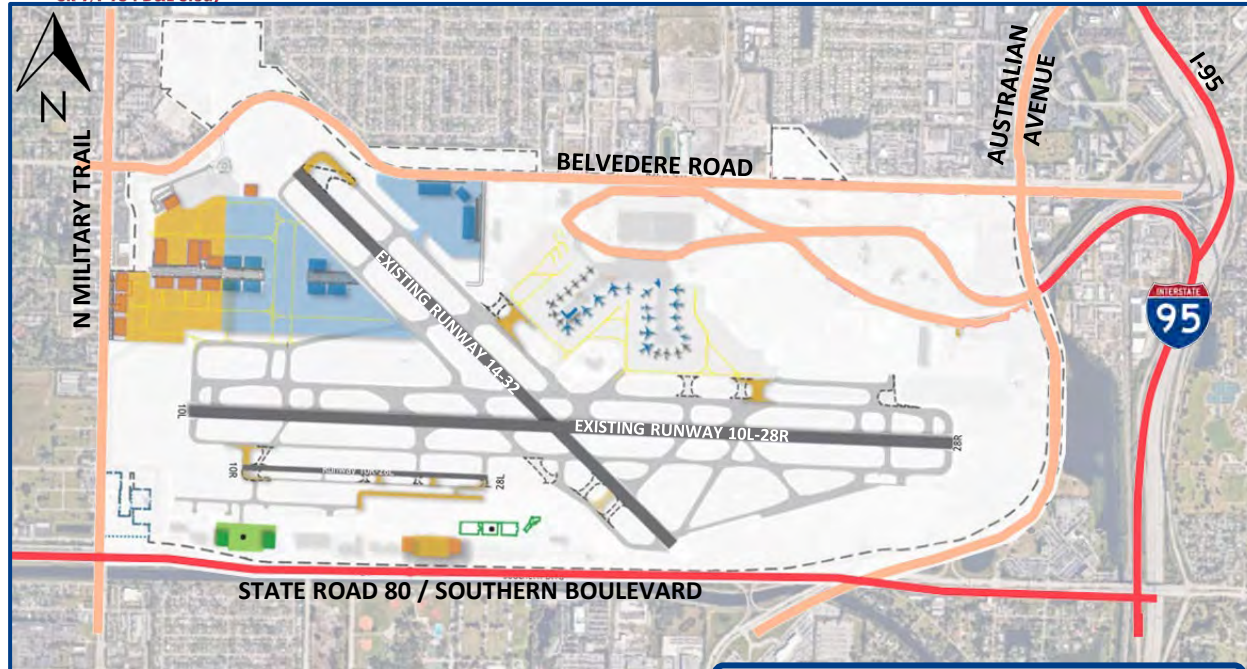
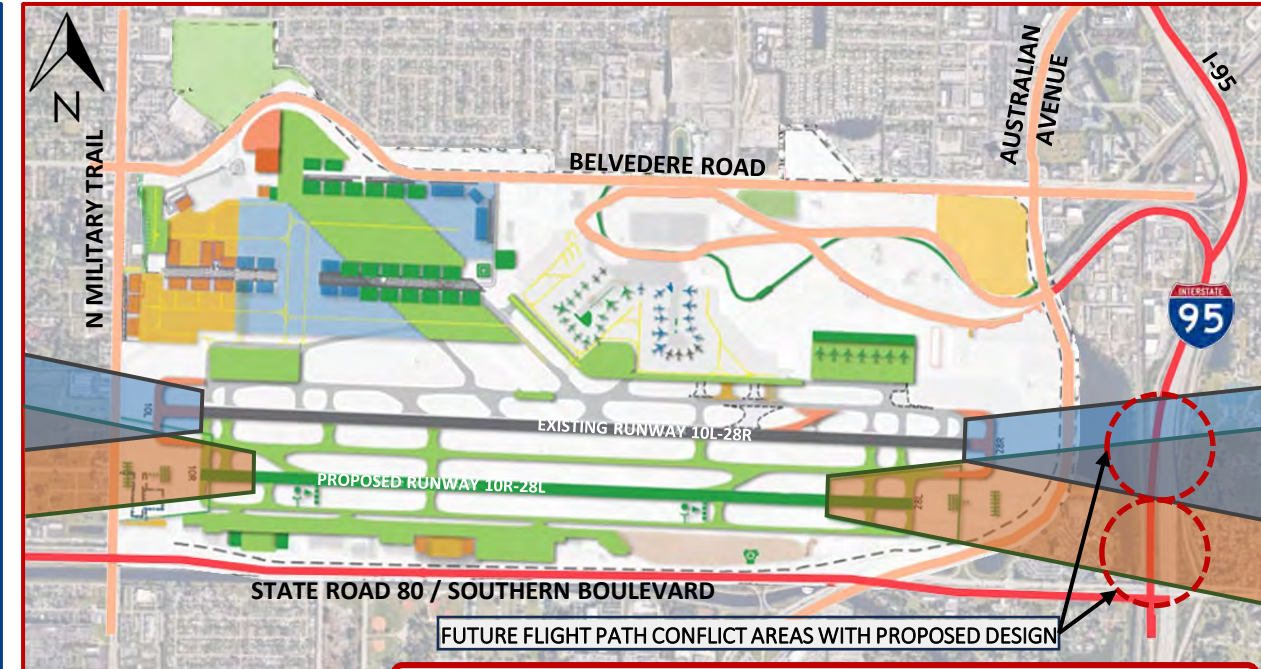






# Palm Beach International Airport Master Plan

SR 9/I-95 PD&amp;E Study

**Existing Airport Layout****Proposed Airport Layout in Master Plan**

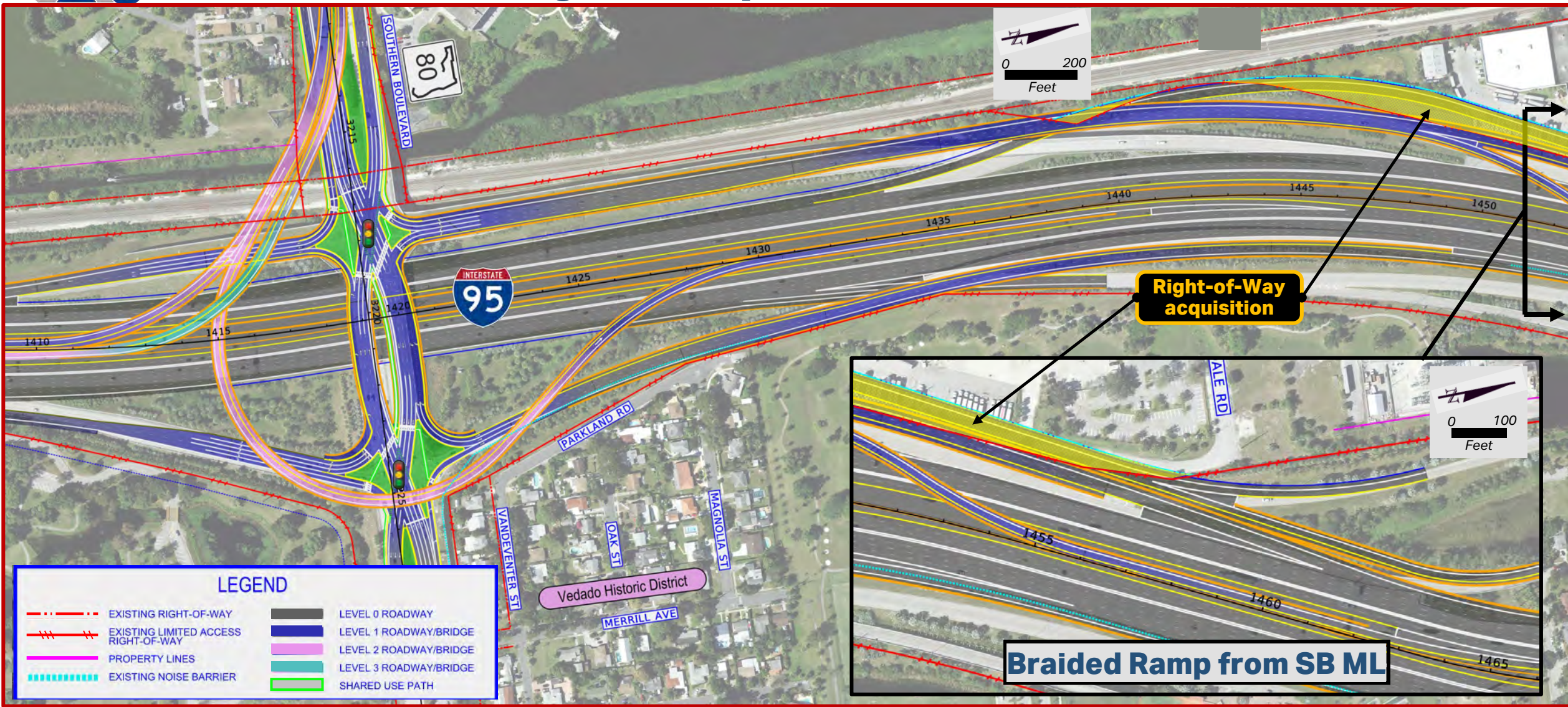
- ❑ The **Master Plan** proposes:
  - Possibly eliminating the diagonal Runway 14-32
  - Extending the existing Runway 10L-28R
  - Adding a new Runway 10R-28L
- ❑ The **flight path of these runways creates a challenge for the project:**
  - The flight path is the designated airspace that aircraft follow when taking off or landing
  - These paths must be kept clear of tall structures to ensure the safe operation of planes
  - Some proposed alternatives for the interchange include elevated ramps that may extend into future flight paths



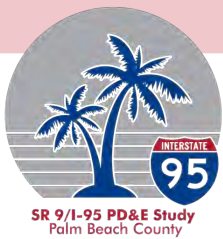




# SR-80 Interchange: Example – Alternative 7A







# Public Involvement

## Public Meetings

- ☐ Public Kick off Presentation: December 2023
- ☐ Alternative Public Workshops:
  - Virtual:* Wednesday, July 30, 2025
  - In-Person:* Thursday, July 31, 2025
- ☐ Public Hearing: (Anticipated) Fall 2026

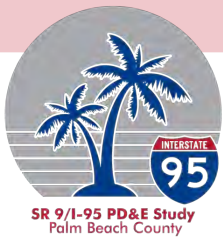


### GET INVOLVED

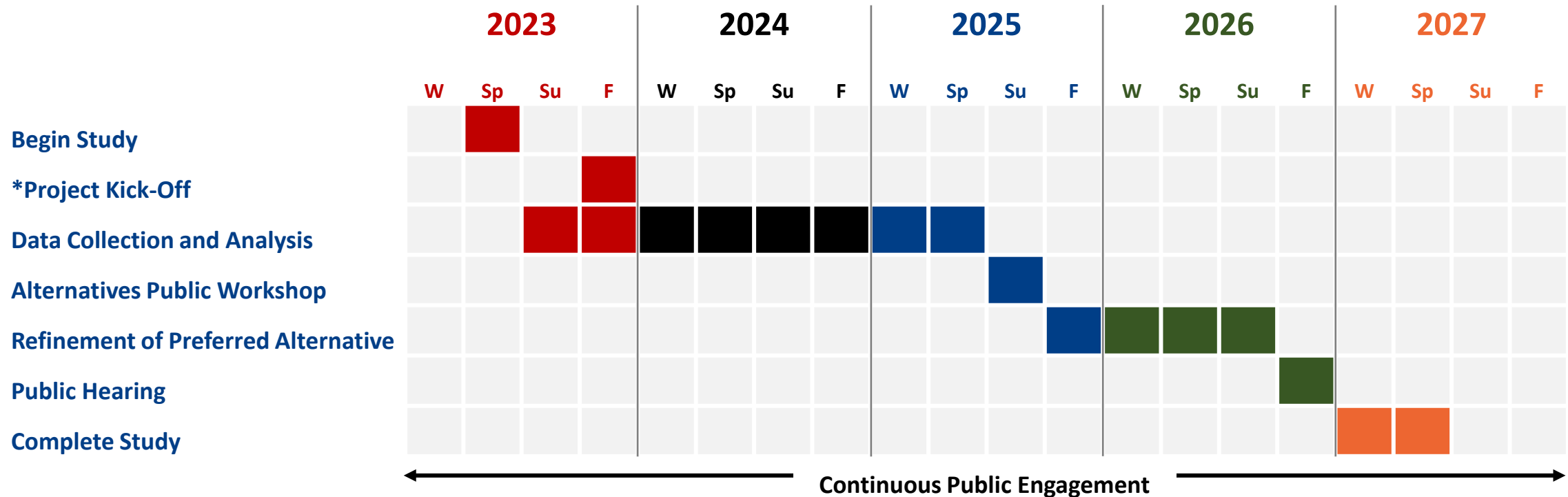
- Attend Public Meetings
- Provide Your Input
- Visit the Project Webpage



**Elected Officials**  
**Agencies**  
**Local Businesses**  
**Local Neighborhoods**



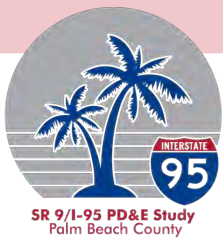
## PD&E Studies Project Milestones Schedule



W: Winter, Sp: Spring, Su: Summer, F: Fall

\*A presentation to kick-off this project was given to the Palm Beach Transportation Planning Agency (TPA) on Thursday, December 14, 2023 at 9:00 am.





## Southern PD&E Study

SR 9/I-95 from South of Linton Boulevard/CR 782 to North of 6<sup>th</sup> Avenue South

**Lance K. Jones, Jr., P.E.**  
FDOT Project Manager

Florida Department of Transportation  
3400 W Commercial Blvd  
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## Northern PD&E Study

SR 9/I-95 from North of 6<sup>th</sup> Avenue South to North of SR 704/Okeechobee Boulevard

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## WHAT YOU SHOULD KNOW

Top 10 states for vehicle thefts  
in 2023:



1. California
2. Texas
3. Florida
4. Washington
5. Illinois
6. Colorado
7. New York
8. Ohio
9. Georgia
10. Missouri



### PROTECT YOUR VEHICLE FROM THEFT



**NHTSA**

[NHTSA.gov/theft](https://www.NHTSA.gov/theft)

Sources: NHTSA and NICB



**City of Lake Worth Beach**  
***May 29, 2025***

# Thank You

**Project Development and Environment (PD&E) Study  
for SR 9/I-95 from South of Linton Boulevard/CR 782  
to North of SR 704/Okeechobee Boulevard**

Southern PD&E Study: Financial Project ID: 444202-1-22-02 | ETDM: 14508  
Northern PD&E Study: Financial Project ID: 444202-2-22-02 | ETDM: 14509

