











SW 10th Street Connector & I-95 from SW 10th Street to Hillsboro Boulevard Project Development and Environment Studies Alternatives Public Workshop, April 24, 2018



FM # 439891-1-22-02, ETDM #14291

FM # 436964-1-22-01, ETDM #14244



Alternatives Public Workshop

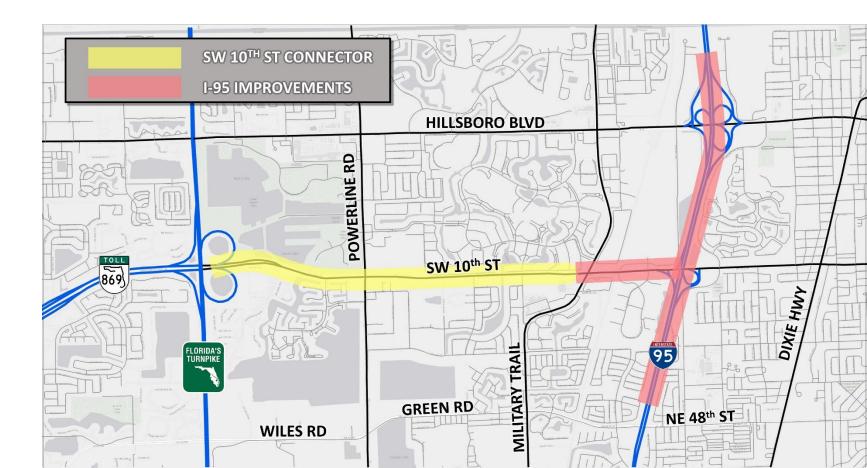
FM 439891-1, SW 10th Street Connector between Florida's Turnpike
 / Sawgrass Expressway to I-95 PD&E Study

■ FM 436964-1, I-95 from SW 10th Street to Hillsboro Boulevard PD&E

Study

Adjacent Studies

SawgrassExpressway

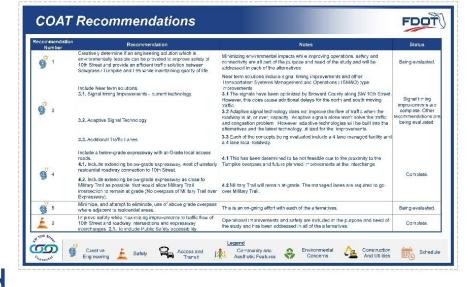




Broward MPO: Community Oversight Advisory Team (COAT)

- Community Oversight Advisory Team
- Outreach to the community
- Provided recommendations
 - 18 main, 15 sub categories = 33 total
 - 29 apply to the SW 10th Street Connector
- Recommendations have been updated
 - Available in display room

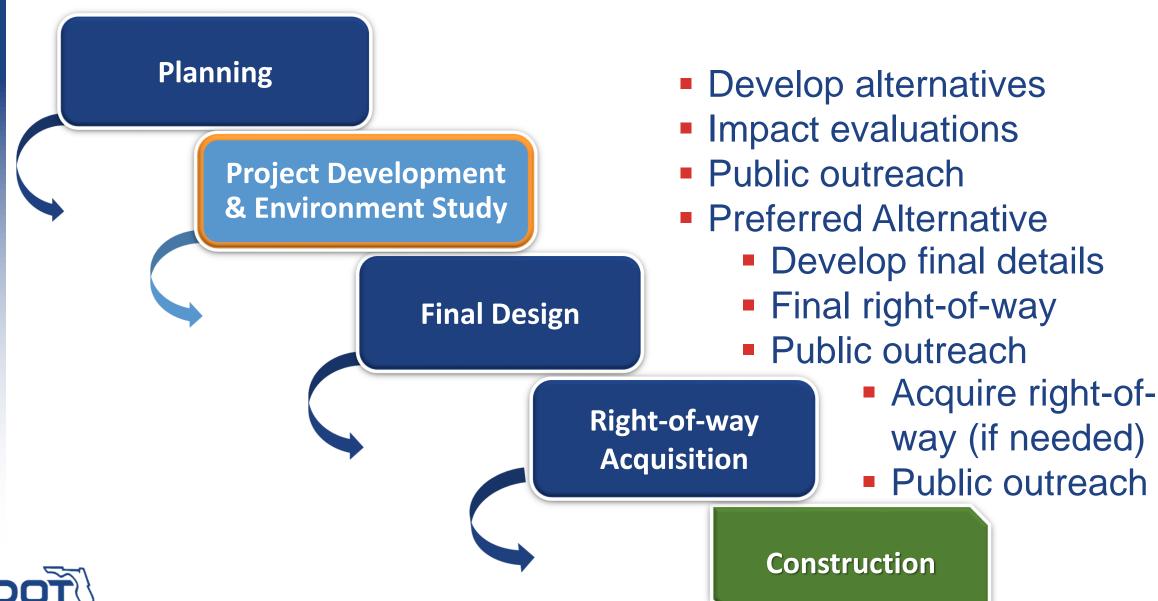








Project Development Process Flowchart



So What Is a PD&E Study?

- Process to satisfy National Environmental Policy Act (NEPA) requirements for transportation projects
- Social, environmental, and engineering evaluations
- Many details developed to conceptual engineering level
- Identify a Preferred Alternative
- Public and agency outreach





OUTREACH

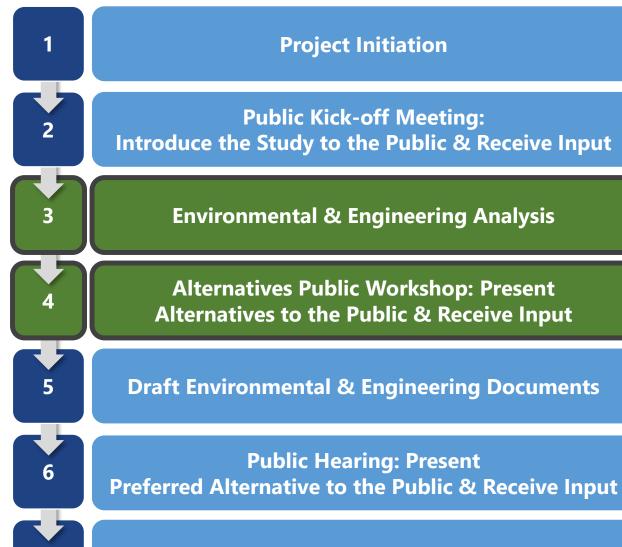
The Process

Data Collection

Engineering Analysis

Environmental **Evaluations**

Community Outreach





Final Environmental & Engineering Documents



Location and Design Concept Acceptance

Purpose and Need – SW 10th Street Connector



- Improve connectivity of SIS and limited-access facilities
- Address local SW 10th Street needs
- Address safety and operational issues
- Enhance emergency response and evacuation
- Enhance social demand, intermodal and economic development





Regional Connectivity

- Close the managed lanes network gap to improve mobility
- Support and encourage economic vitality





Regional Managed Lanes Network Gap





Purpose and Need – I-95 PD&E Study

Primary Need

- Capacity / Operational Deficiencies
- Safety Higher than average crash rate

Secondary Considerations

- Evacuation and emergency services
- Transportation demand









Higher than average crash rate





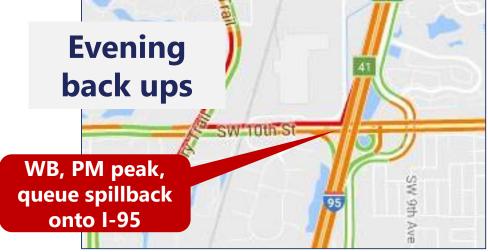


Traffic Back Ups



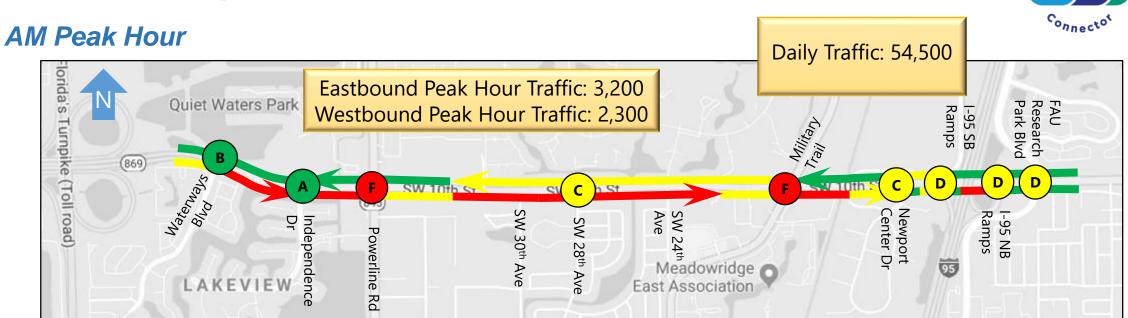


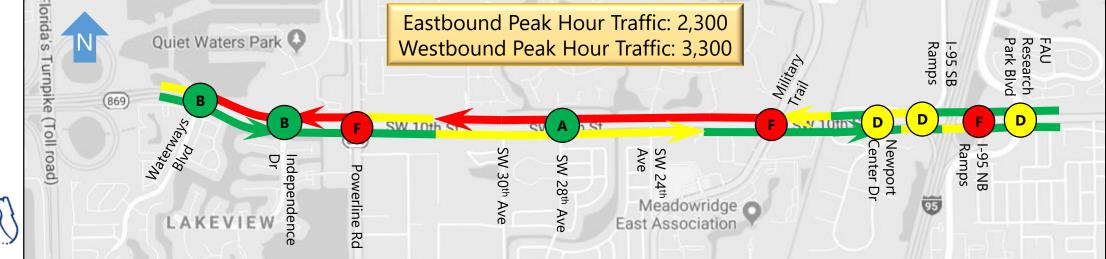






2016 Traffic Operations





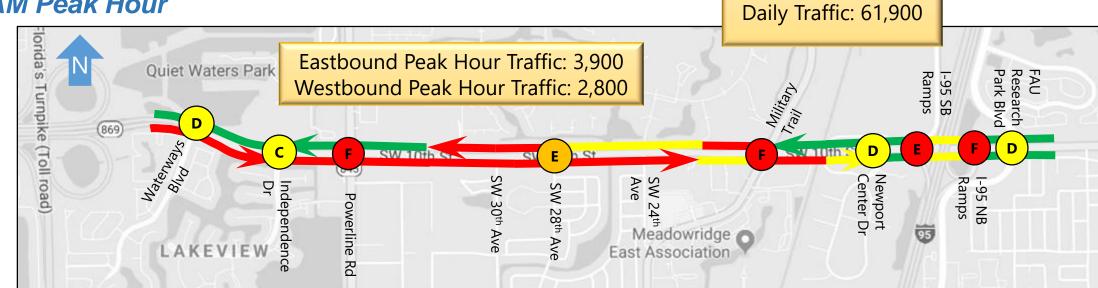


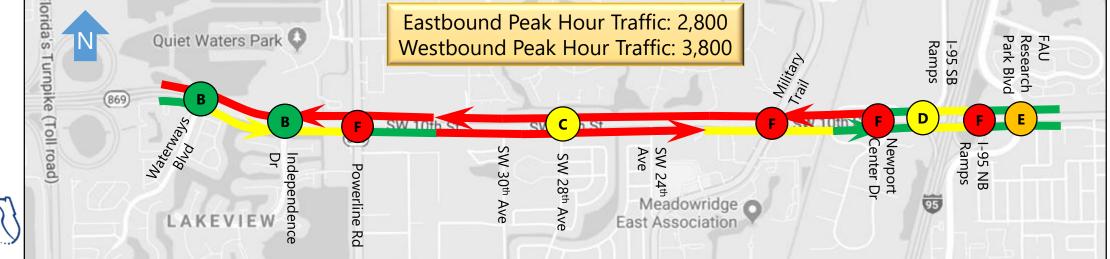
2040 Traffic Operations - No Build Alternative





AM Peak Hour

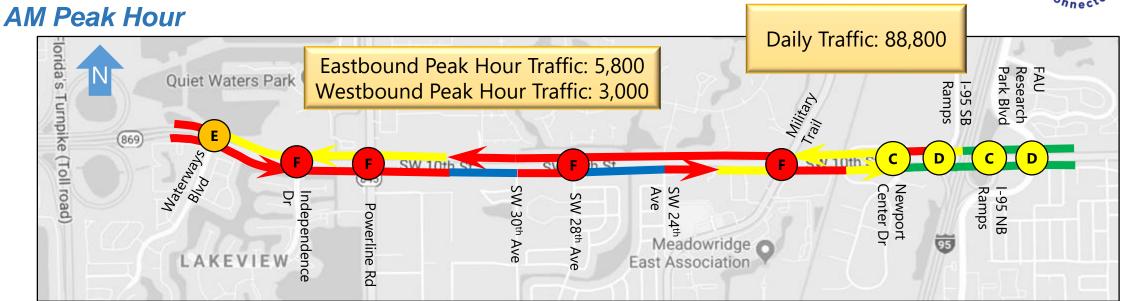


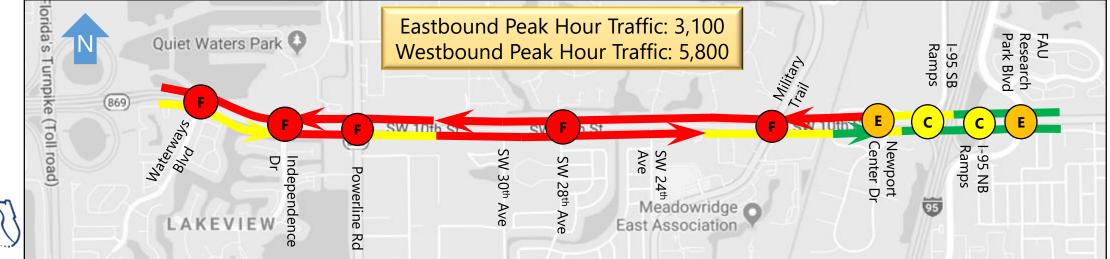




2040 Traffic Operations - Improvements with Interchanges Only (I-95, Sawgrass, Turnpike Managed Lanes & Interchange Improvements)



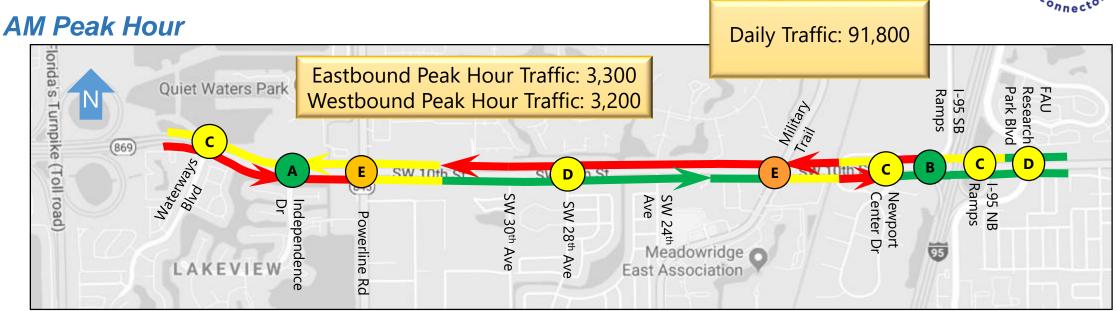


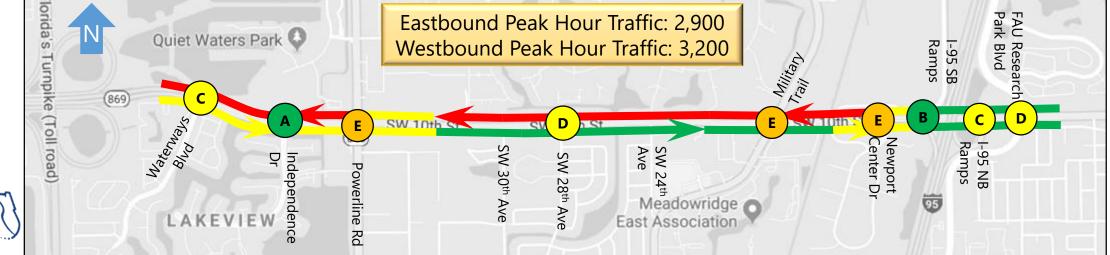




2040 Traffic Operations - Build Alternative









2040 Build Alternative Performance



- Reduces east and west travel times
- 40% less total signalized intersection delay than No Build
- More than 30% of total traffic using managed lanes instead of local lanes
- 30,000 more trips per day in the corridor can be accommodated



Alternatives Considered: SW 10th Street Connector (55)





Alternatives Analysis

Connector

- Develop/refine with input from the public, local governments and agencies
- Meet purpose and need
- Avoid or minimize impacts to the community and environment
 - Evaluation matrix for comparison
 - In the display room
 - No Build Alternative





Alternatives Analysis SW 10th Street Connector



- Two facilities to be evaluated
 - Managed Lanes
 - Entrance / exit ramp locations between Powerline Road and Military Trail
- Limits of the below-grade section continues to be evaluated
 - Local roadway
 - Lower-speed
 - Bicycle lanes
 - Sidewalks
 - Access for businesses and communities











Center Alignment Alternative

Connector

Managed Lanes in the center with local SW 10th Street on either

side as a frontage road

Limits of the below grade section continue to be evaluated





Northern Alignment Alternative



 Managed Lanes on the north side with local SW 10th Street on the south side

Limits of the below grade section continue to be evaluated





Construction of Depressed Section

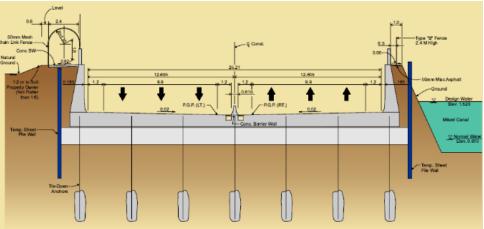
Connector

- Extensive utility relocation required
- 3-5 year construction time (not counting utility work)
- Dewatering ponds required
- Potential business relocations at Powerline Road









Advantages / Disadvantages of Depressed Section



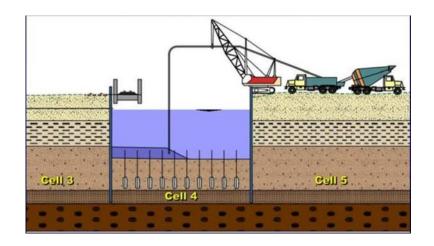
- Advantages
 - May be less visually obtrusive
 - Opportunities for landscape lids
 - Potentially improves noise attenuation

Disadvantages

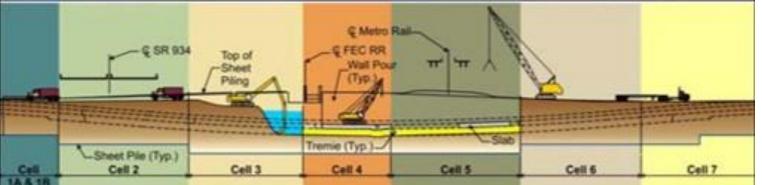
- Requires extensive utility relocations
- Requires dewatering ponds / pumps
- Extended, complicated construction
- More costly than conventional roadway projects
- Potential business relocations at Powerline Road

Permanent pumps / stations

Please see evaluation matrices in the display room for more details.







Alternatives Considered: I-95 PD&E Improvements

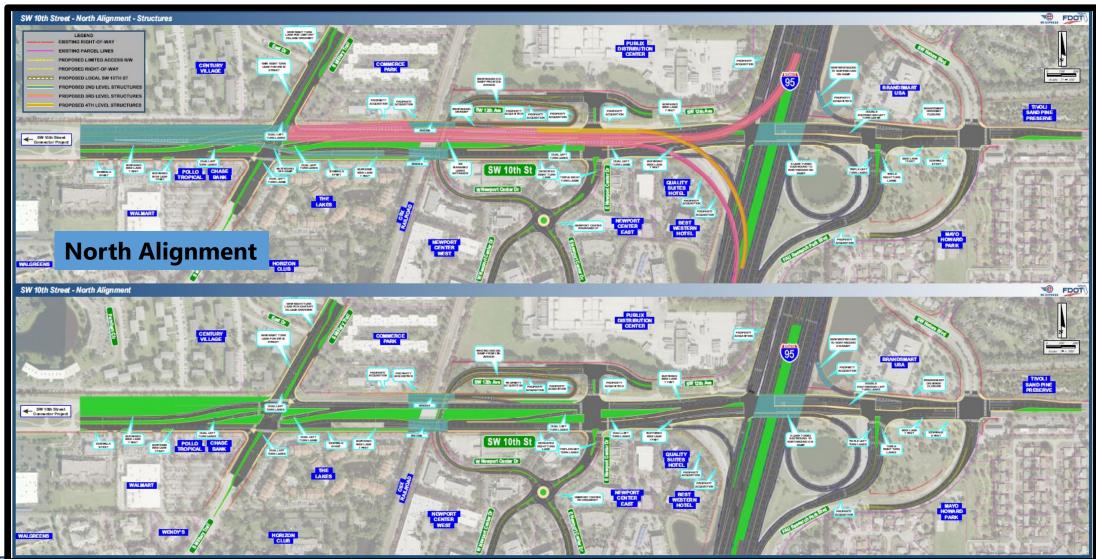






Alternatives Considered: I-95 Interchange at SW 10th St.







Alternatives Considered: I-95 Interchange at SW 10th St.







Military Trail Intersection - Looking North





EB SW 10th Street

27



Alternatives Considered: I-95 Mainline





Mainline Improvements

SW 10th St Interchange Hillsboro Blvd Interchange



Environmental Analysis











Natural Environment

- Wetlands and Surface Waters
 - Surface Waters Canals, ponds, drainage –
 Anticipate only minor impacts
 - No wetland impacts anticipated
- Threatened and Endangered Species
 - Project <u>not</u> within in USFWS Critical Habitat
 - Project within Core Foraging Area of Wood Stork
 Colonies and within USFWS Consultation Area –
 Everglades Snail Kite
 - Bald eagle nest Quiet Waters Park
 - No state or federal listed species observed
 - Anticipate no adverse impact
- Natural Resource Evaluation Prepared









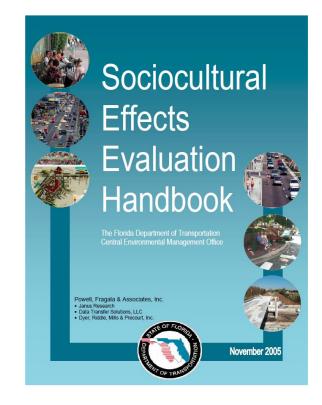
Environmental Analysis





Cultural and Socio-Cultural Environment

- Historic and archaeological anticipate No Adverse Effect
- Section 4(f)
 - Crystal Heights Park North
 - Quiet Waters Park
 - Mayo Howard Park
 - Oveta McKeithen Recreational Complex
 - Tivoli Sand Preserve
 - Willie James Linear Park
- No permanent use anticipated
- Potential temporary use
 - Section 4(f) Determination of Applicability (DOA)
 - Anticipate Section 4(f) de minimis
- Multimodal accommodations







Environmental Analysis







- Contamination Screening Evaluation
 - SW 10th St.
 - Seventeen (17) potential sites
 - No significant concerns
- Air Quality
 - Air Quality Screening
 - Reduced congestion = improved air quality







Noise Analysis – SW 10th Street Connector & I-95

Co of

- Key Concern
 - Future noise levels
 - Adjacent communities may require noise abatement



- Seven residential communities
- Century Village
- The Lakes at Deerfield
- Tivoli Park
- Natura



= Residential



= Commercial



Detailed Noise Analysis

- Noise-sensitive sites identified
- Noise levels measured along both project corridors
- Noise modeling analysis being performed
- Results available Fall 2018
- SW 10th St. 7 residential, 3 recreational, 1 commercial
- <u>I-95</u>: 10 non-residential sites (hotel, parks / trails, restaurant, daycare, & medical office)

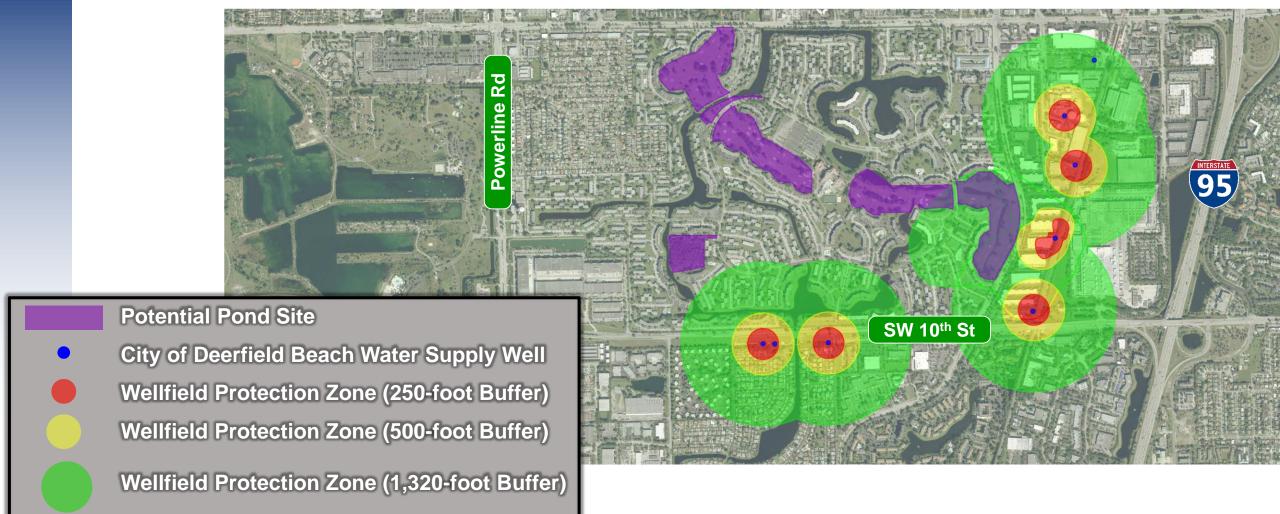




Deerfield Beach Wellfield



Groundwater modeling to be performed this summer



Future Landscape Projects

- SW 10th Street from Powerline Road to West of Military Trail
 - After roadway construction

- I-95 from South of SW 10th Street to the Broward / Palm Beach County Line
 - After roadway construction



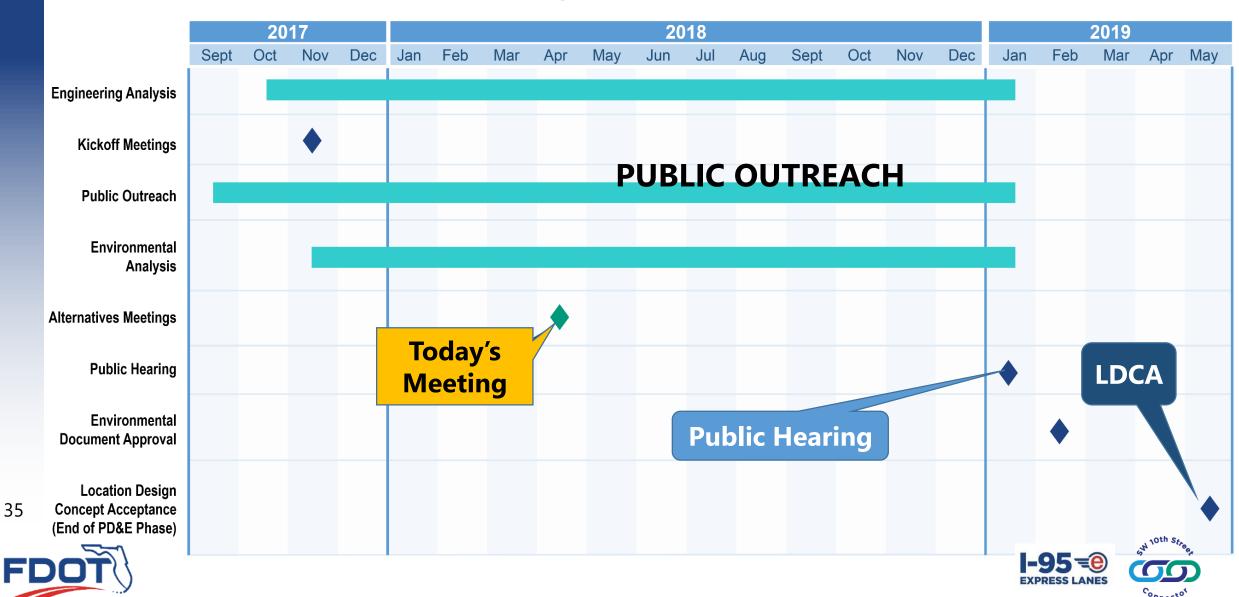








Schedule: SW 10th Street Connector and I-95, SW 10th Street to Hillsboro Boulevard PD&E Studies



Next Steps...

- PD&E
 - Continue alternatives development
 - Continue community outreach
 - Alternatives Public Workshop: Today
 - Public Hearing: early 2019
 - LDCA: May 2019
- Design mid 2019
- Construction Currently funded in 2025
- Tell us what you think by taking the survey, writing a comment card, or both!!







Thank You!

www.sw10street.com







