



# METROPLAN PRESENTATION

TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS ADVISORY  
AND TECHNICAL ADVISORY COMMITTEES

FEBRUARY 28, 2020

## Project Development and Environment (PD&E) Study

at Florida's Turnpike (SR 91) and Beachline  
Expressway (SR 528)

Financial Project ID (FPID) Number: 438547-1

Efficient Transportation Decision Making Number: 14294

Orange County, FL



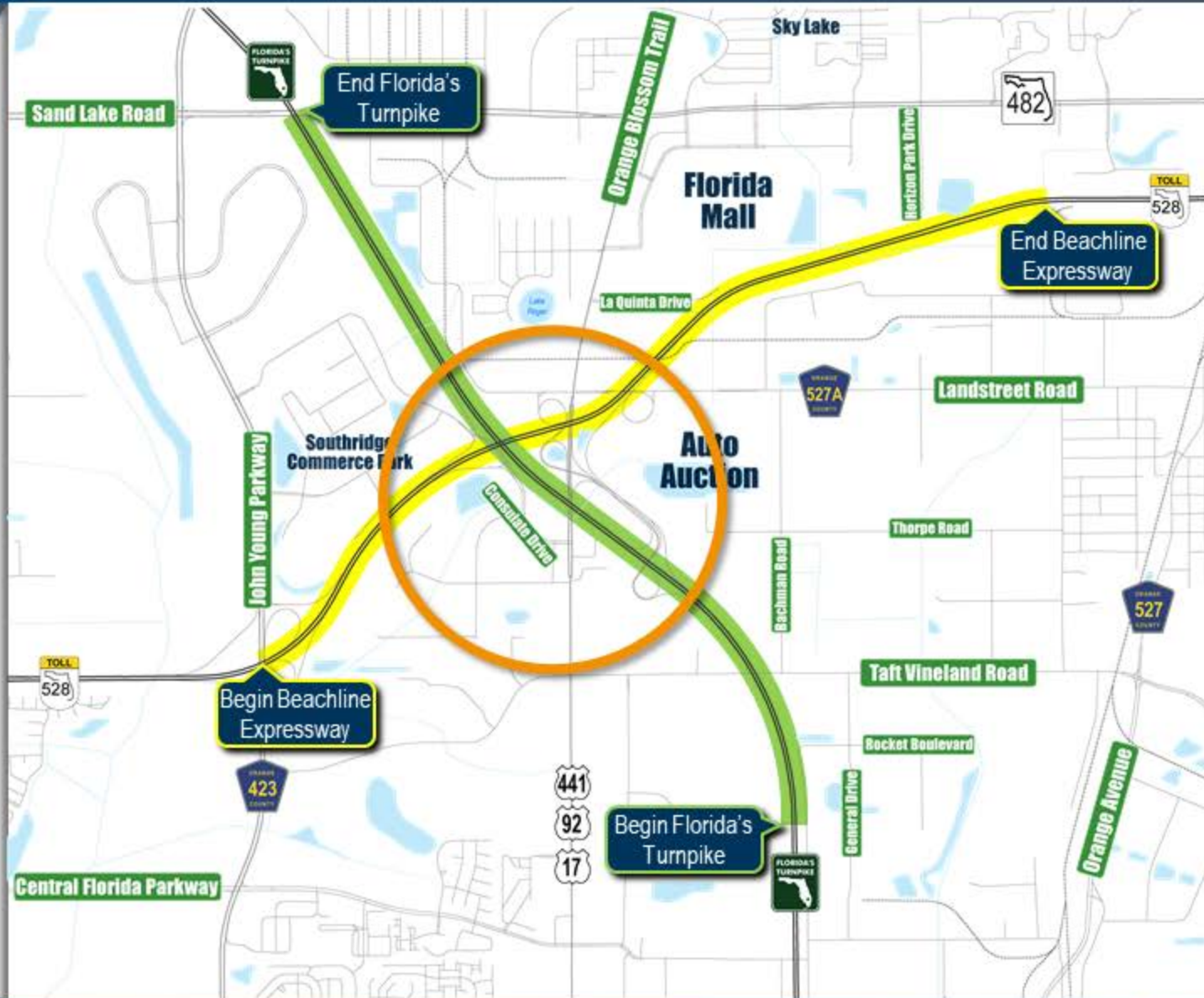


- Project Overview
  - Location
  - Existing Deficiencies
- Preferred Alternative
  - Orlando South Interchange
  - SR 528 / Voltaire Drive
  - SR 91 / Taft Vineland Road
  - Summary Benefits
- Schedule
- Questions





# PROJECT LOCATION & STUDY LIMITS





# PROJECT DESCRIPTION

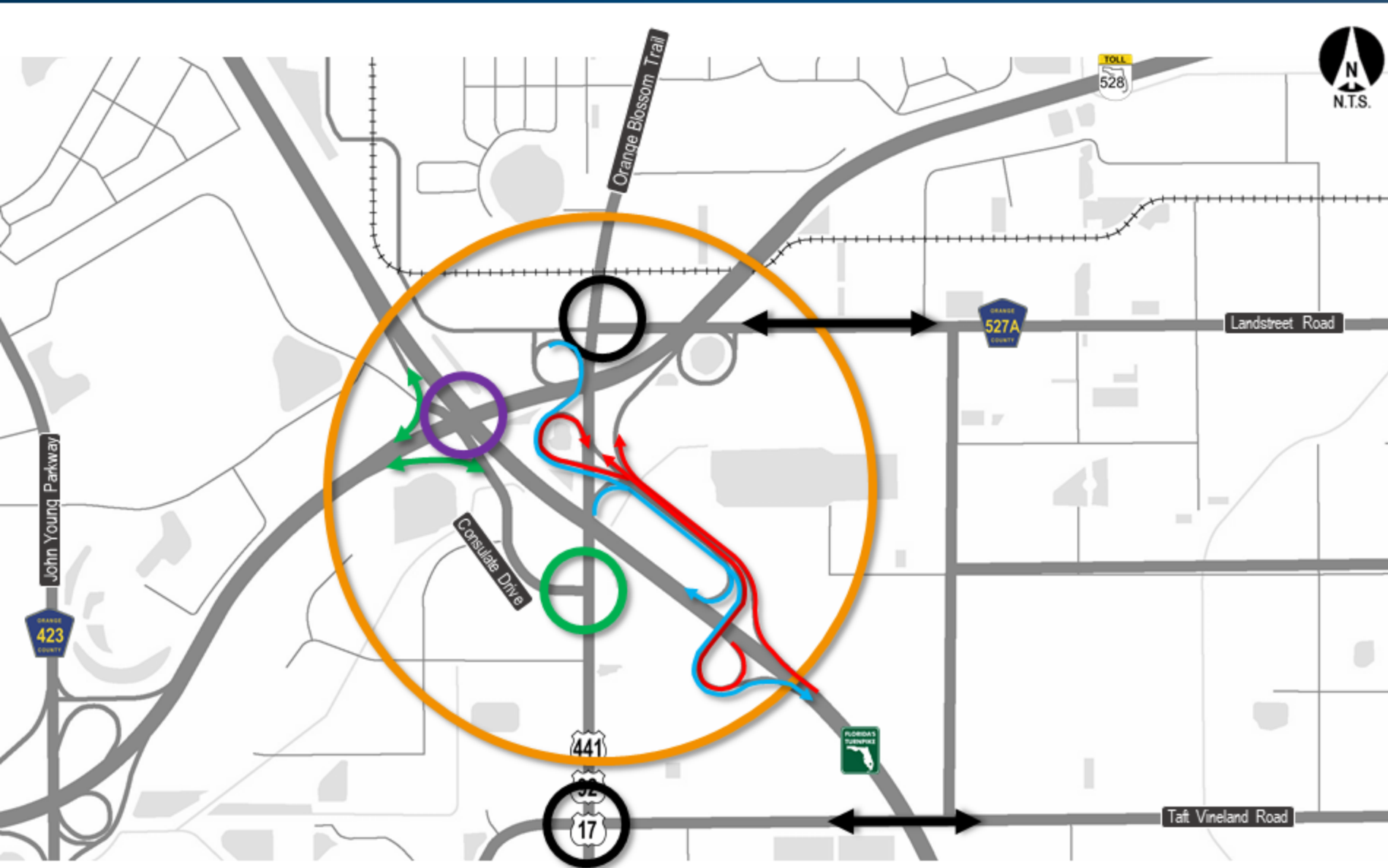


1964



2017

# SUMMARY OF EXISTING DEFICIENCIES



Heavy truck demand leads to congestion at OBT intersections with Landstreet Road and Taft Vineland Road

No direct connections to SR 528 lead to congestion at Consulate Drive / Orange Blossom Trail

Overall – circuitous routings lead to operational inefficiency

Inefficient ramp weaving degrades operations

Low speed ramps decrease operational efficiency

SR 528 bridge is not long enough for 10-lane Florida's Turnpike





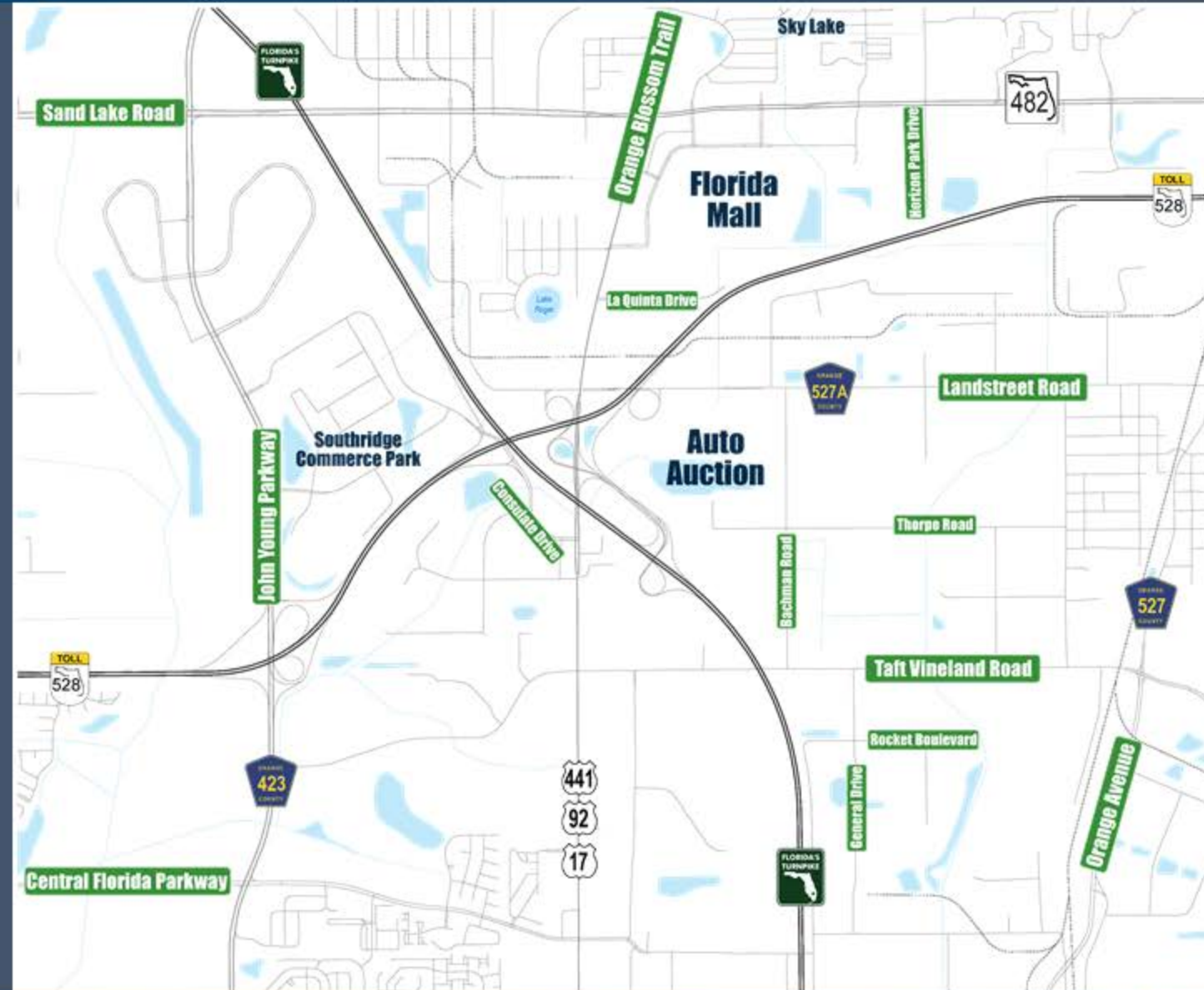
## NO-BUILD ALTERNATIVE

- Advantages

- No additional social, cultural, physical or natural environment impacts
- No additional right of way

- Disadvantages

- Increased local road congestion
- Worse emergency evacuation and response times



# PREFERRED ALTERNATIVE



# APPROACHES TO DEVELOPING PREFERRED ALTERNATIVE



**ENHANCE**  
SAFETY



**ADDRESS**  
TRAFFIC NEEDS



**IMPROVE**  
TRAVEL TIME  
RELIABILITY



**PROVIDE**  
LONG-TERM  
MOBILITY



**MINIMIZE**  
ENVIRONMENTAL  
IMPACTS





# PROJECT DESCRIPTION

## Improvements Include:

### Systems Continuity, Capacity, and Operations

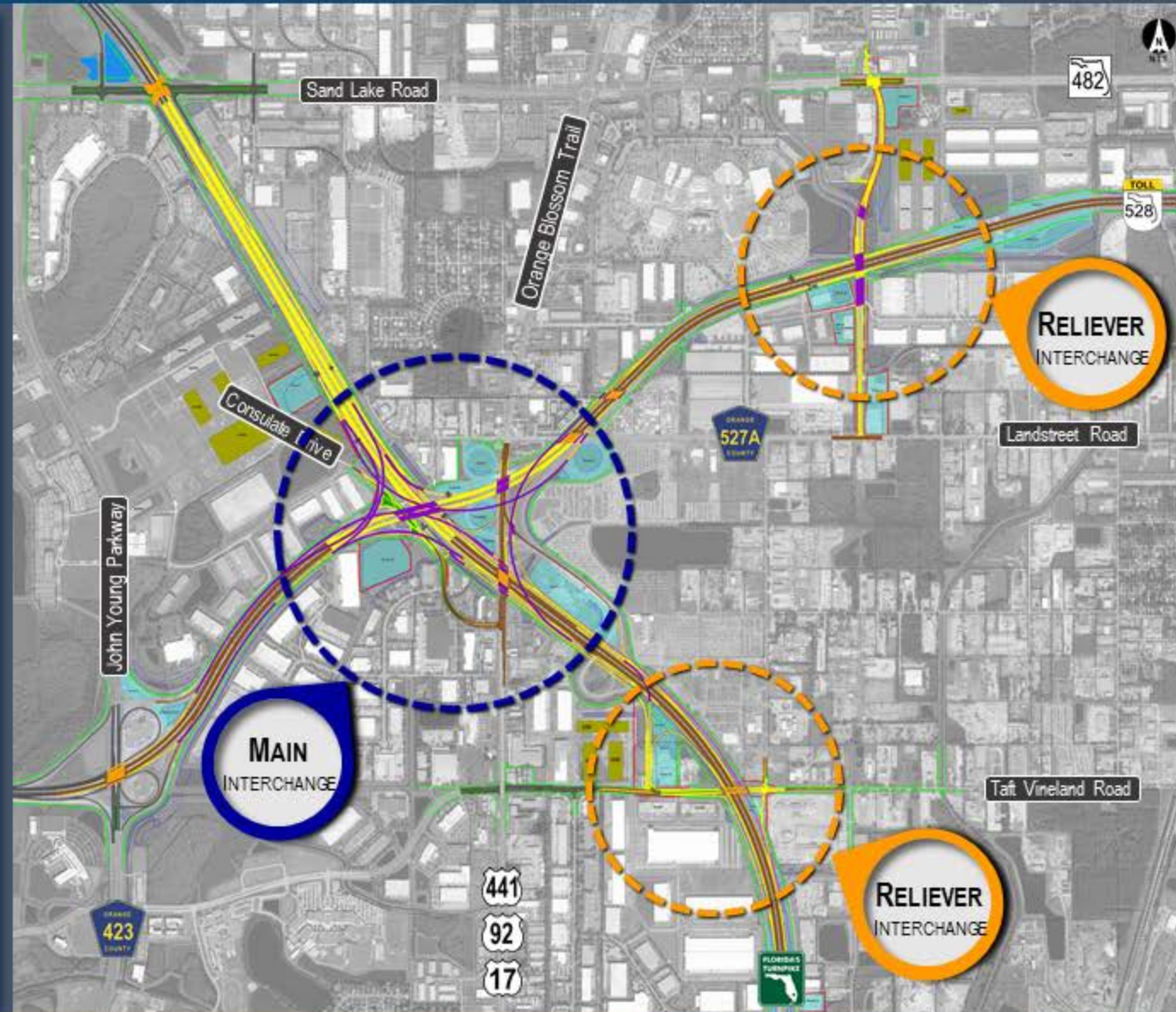
- New directional ramps connecting Florida's Turnpike and Beachline Expressway
- Longer Beachline Expressway bridges for additional Florida's Turnpike lanes
- Auxiliary lanes and braided ramps to improve lane changes

### Ramp Safety Operations

- Separation of ramps to reduce weaving
- All Electronic Tolling with gantries

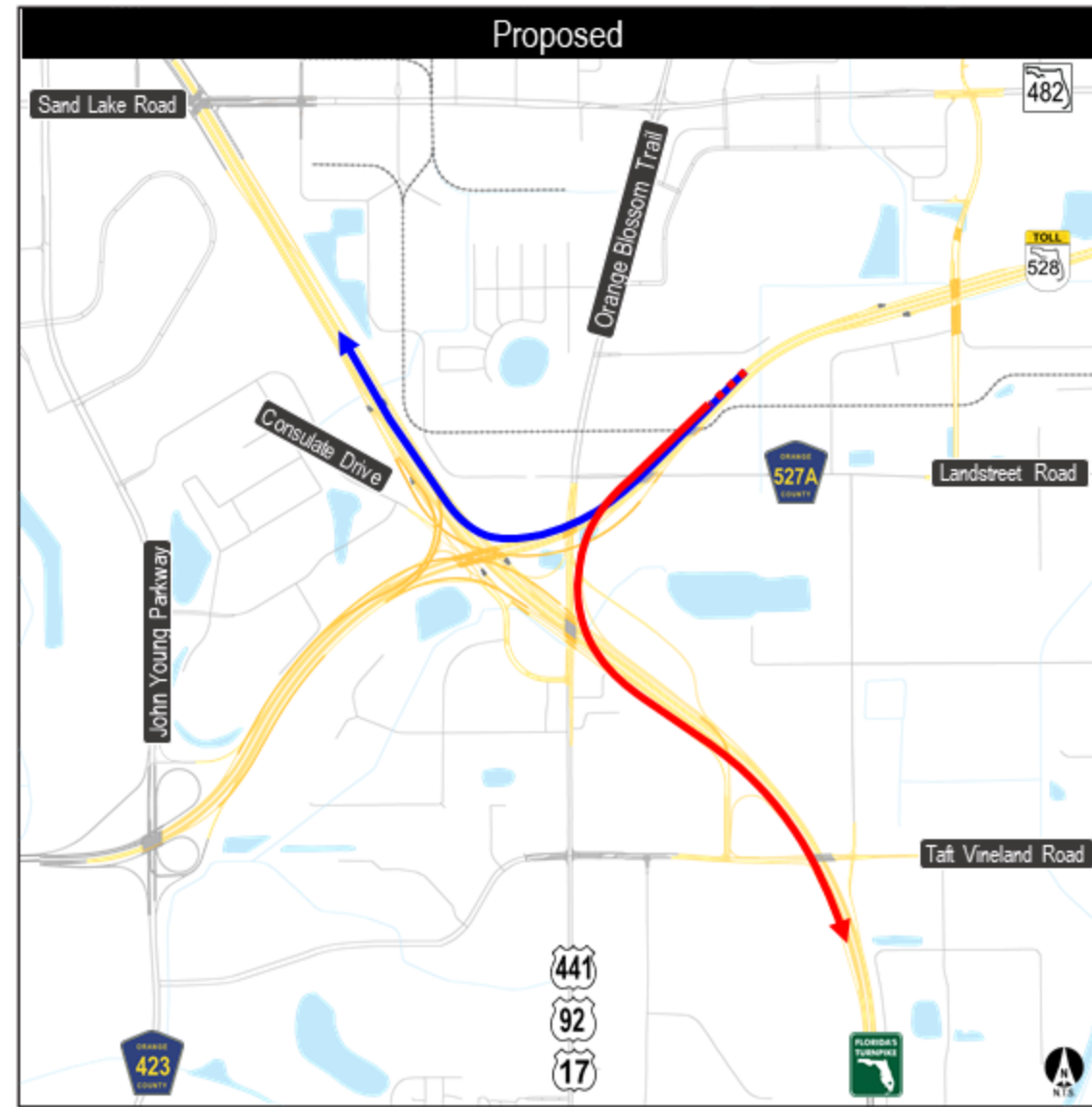
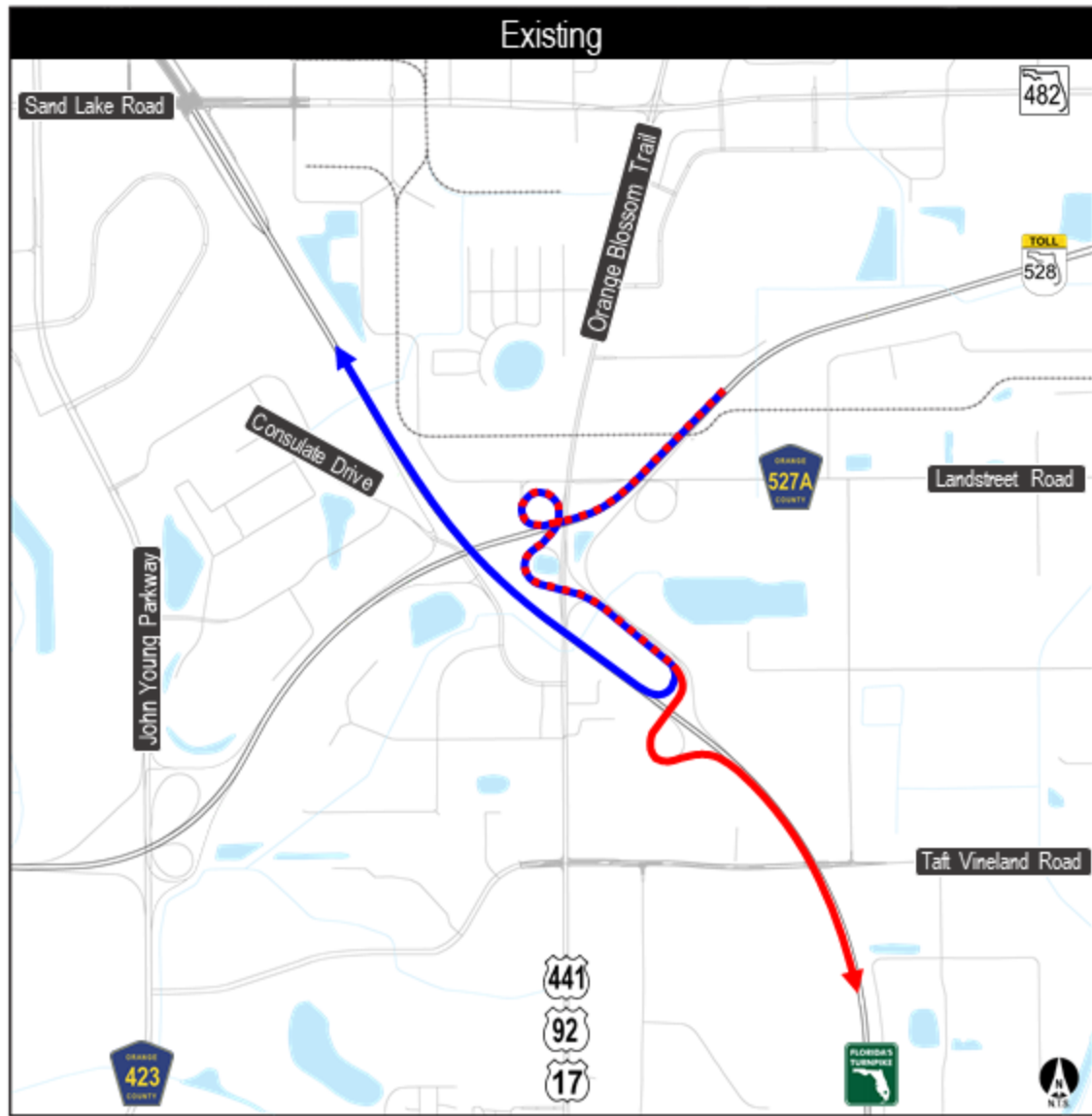
### Surface Street Capacity and Operations

- Two reliever interchanges to disperse traffic demand
- Removal of selected ramps to reduce demand on Orange Blossom Trail
- A Diverging Diamond Interchange and triple left turn lanes at Orange Blossom Trail intersection to improve Consulate Drive efficiency



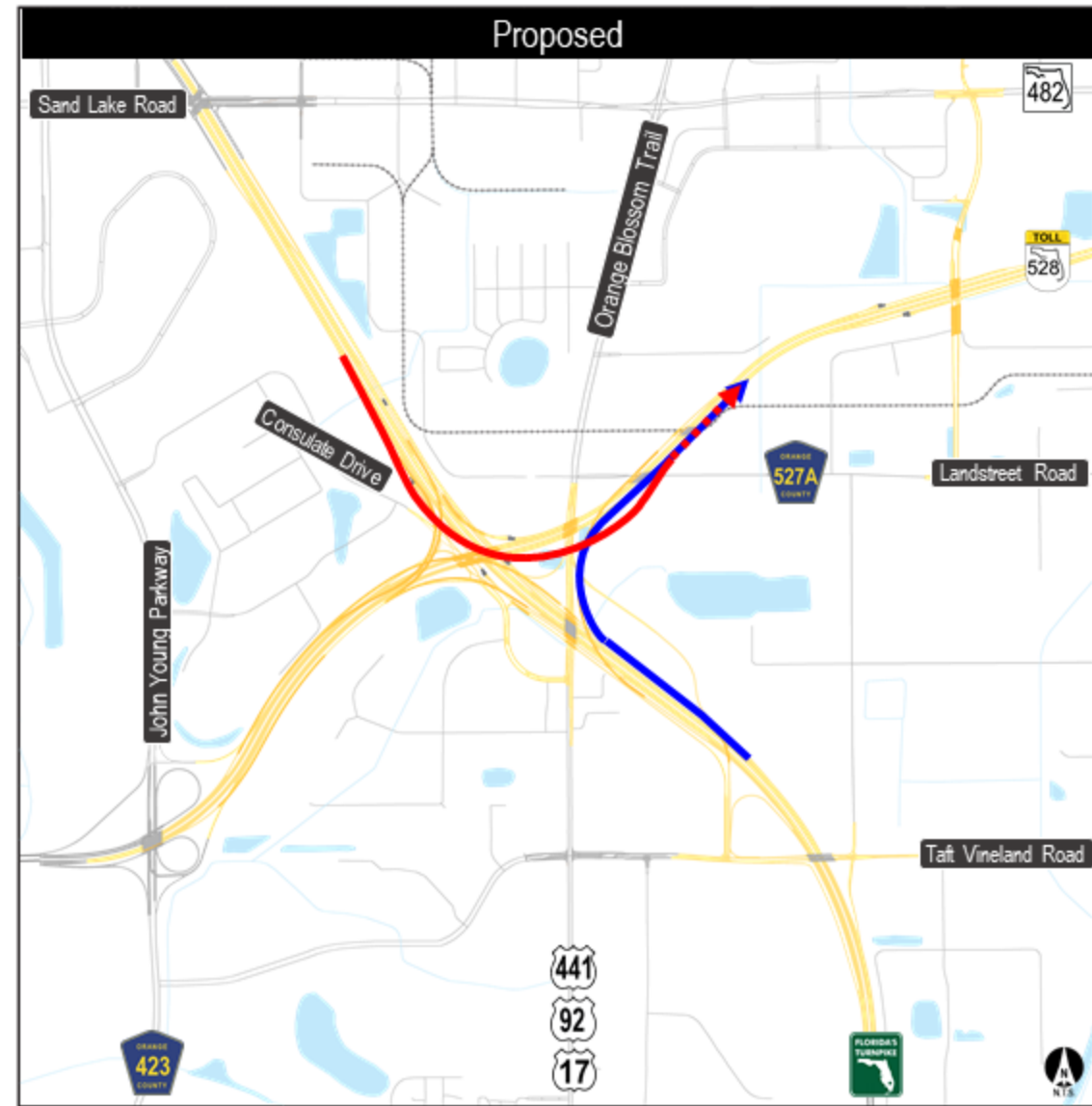
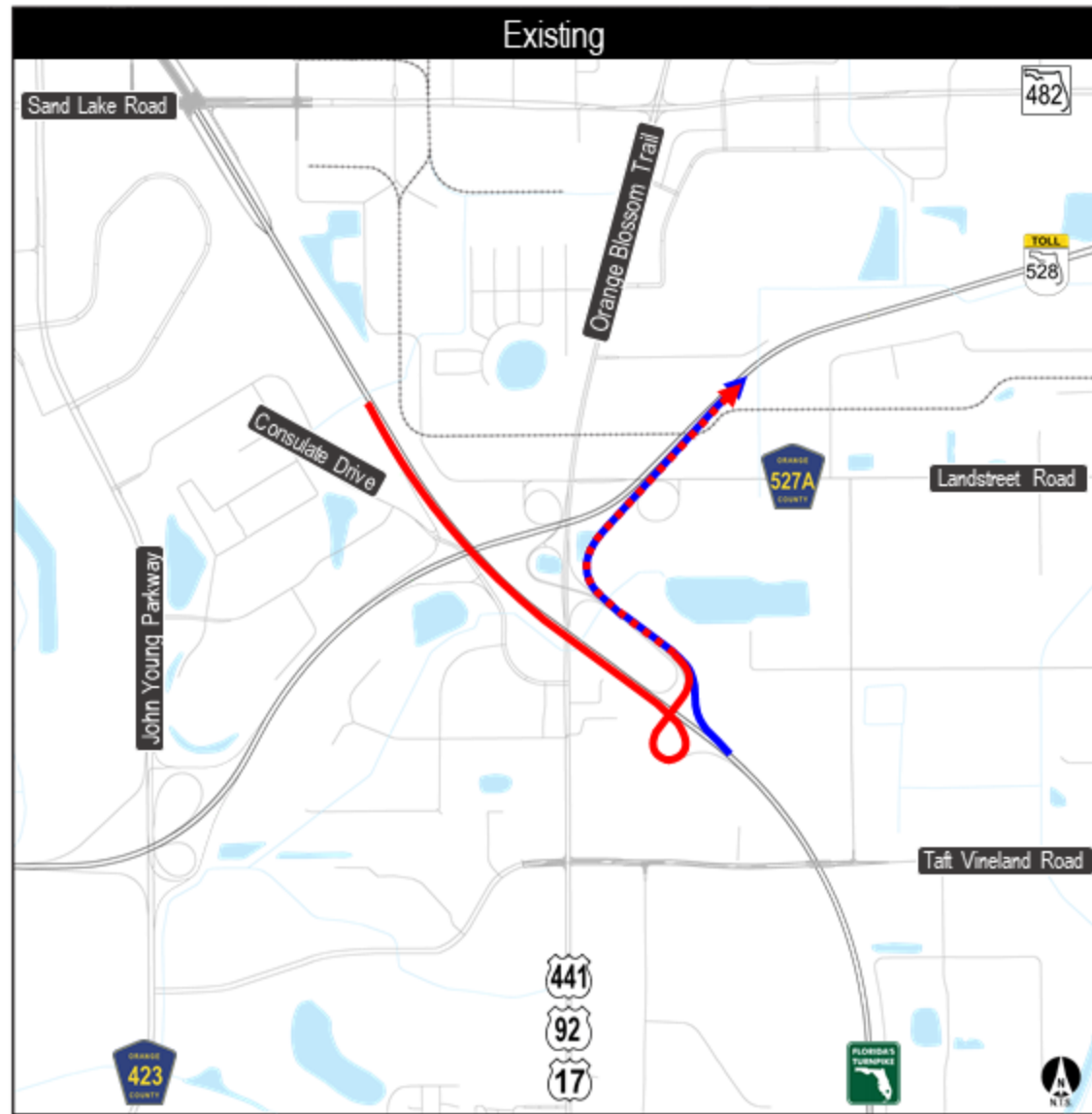


# WESTBOUND BEACHLINE EXPRESSWAY TO FLORIDA'S TURNPIKE

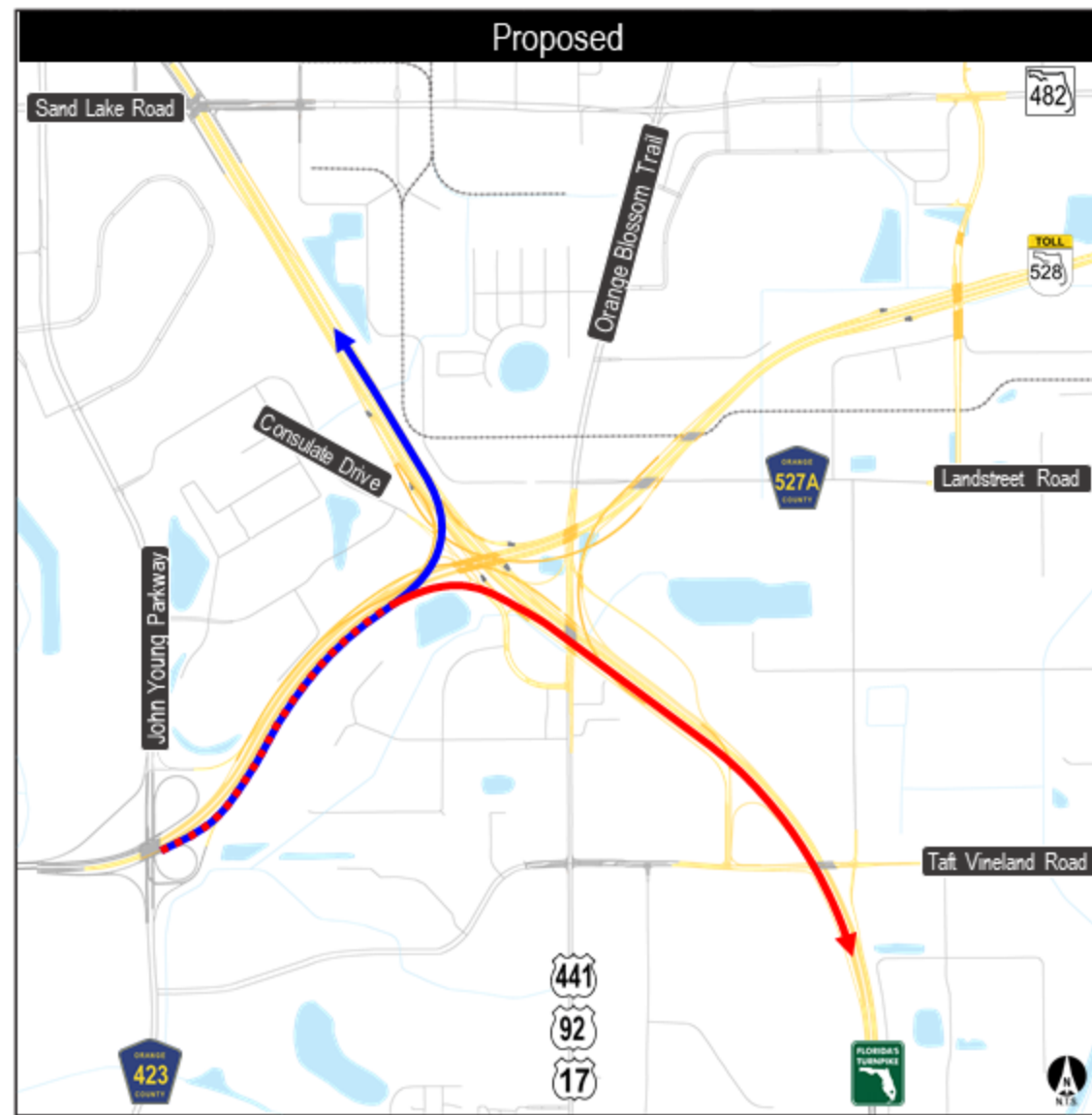
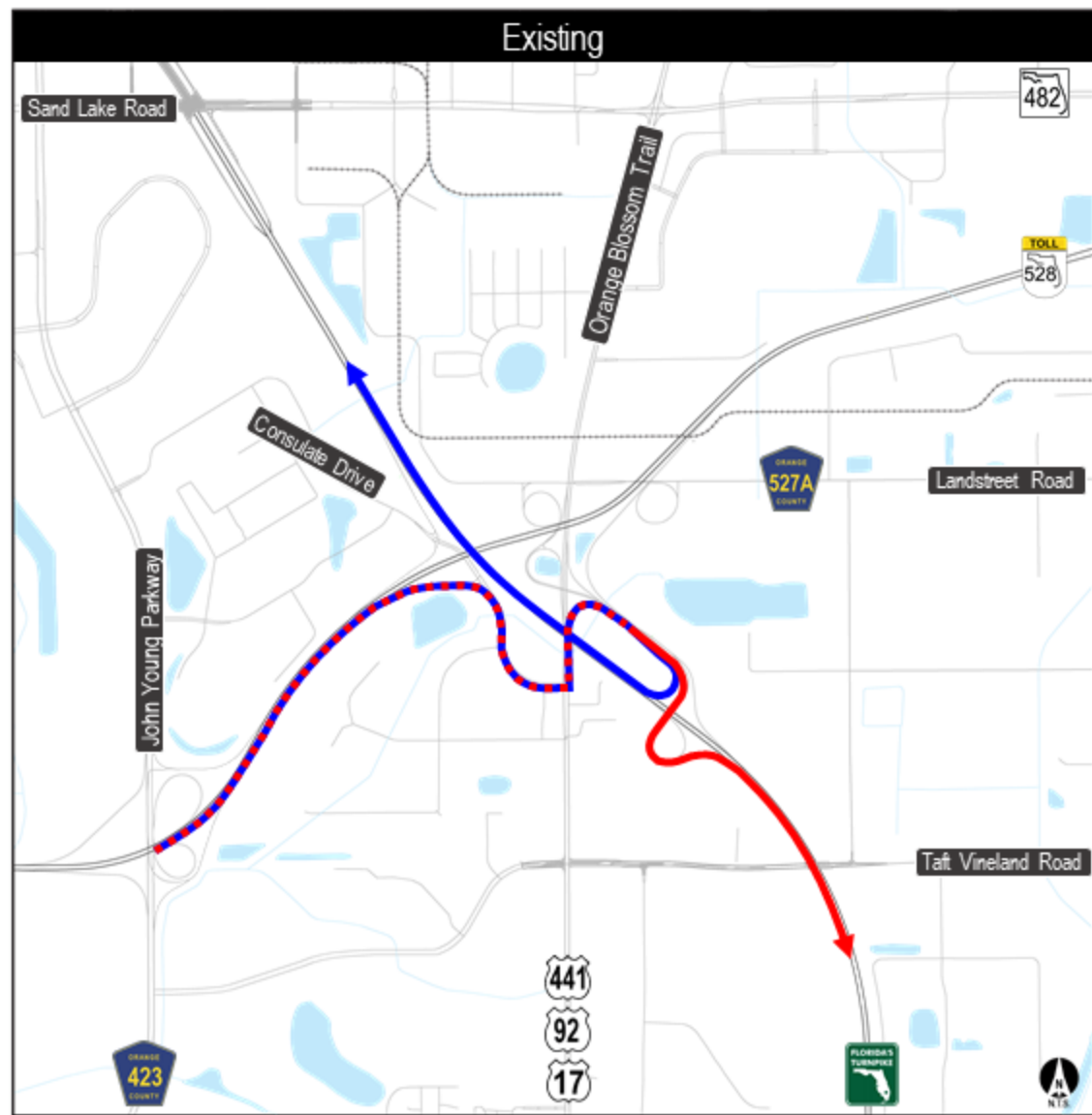




# FLORIDA'S TURNPIKE TO EASTBOUND BEACHLINE EXPRESSWAY

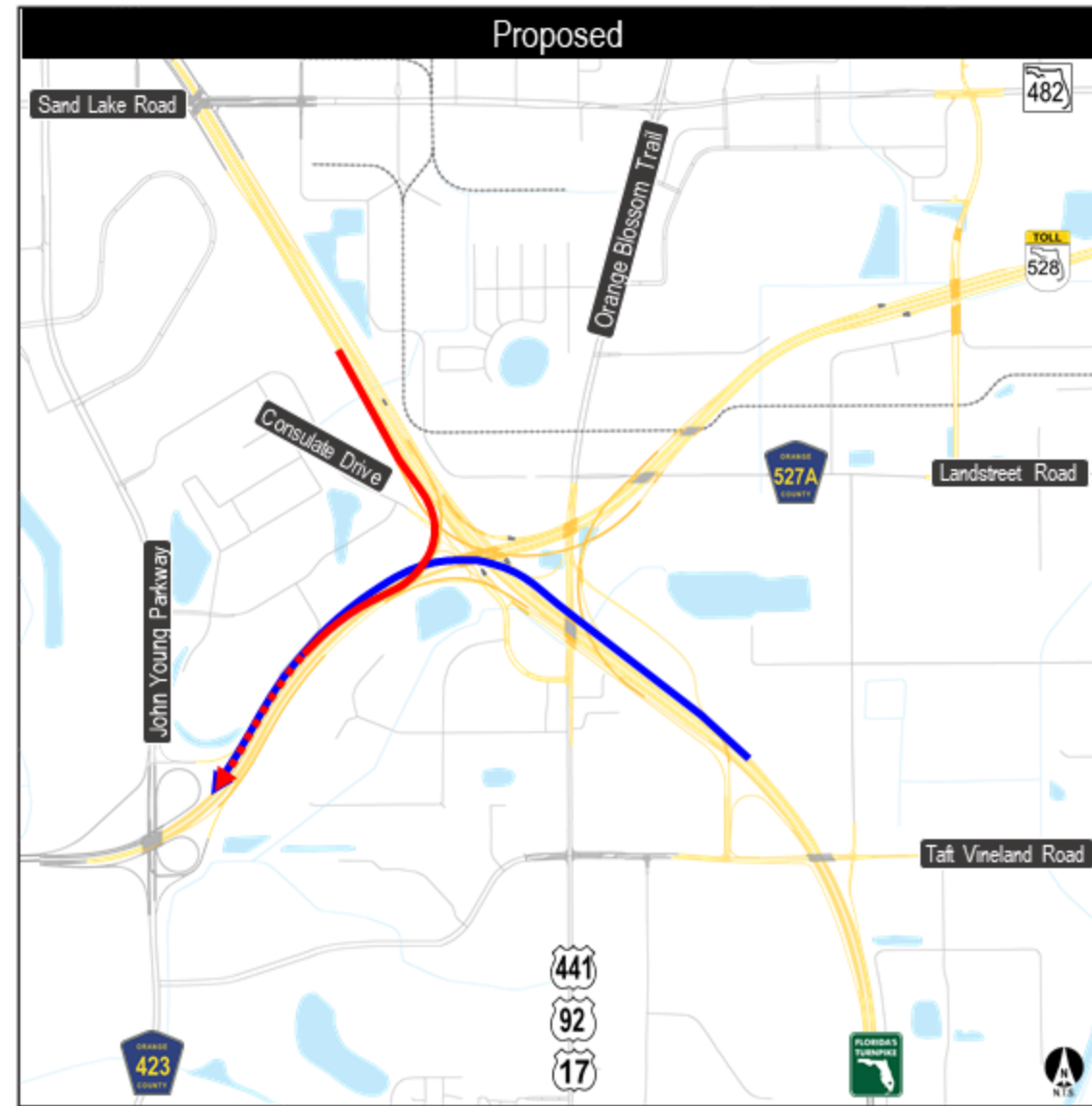
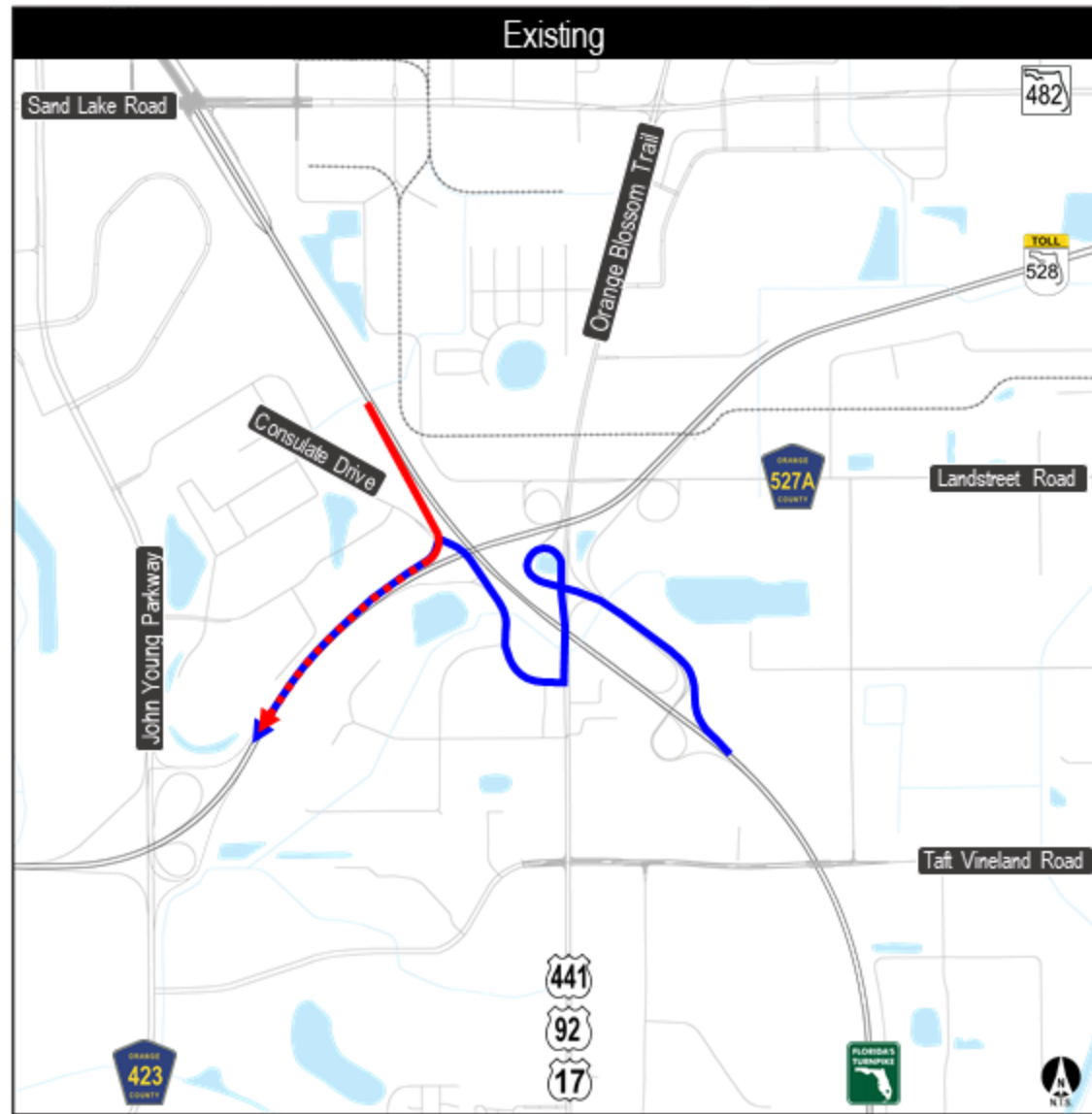


# EASTBOUND BEACHLINE EXPRESSWAY TO FLORIDA'S TURNPIKE





# FLORIDA'S TURNPIKE TO WESTBOUND BEACHLINE EXPRESSWAY





# NEW LOCAL ACCESS INTERCHANGES



Voltaire Drive Extension Reliever Interchange

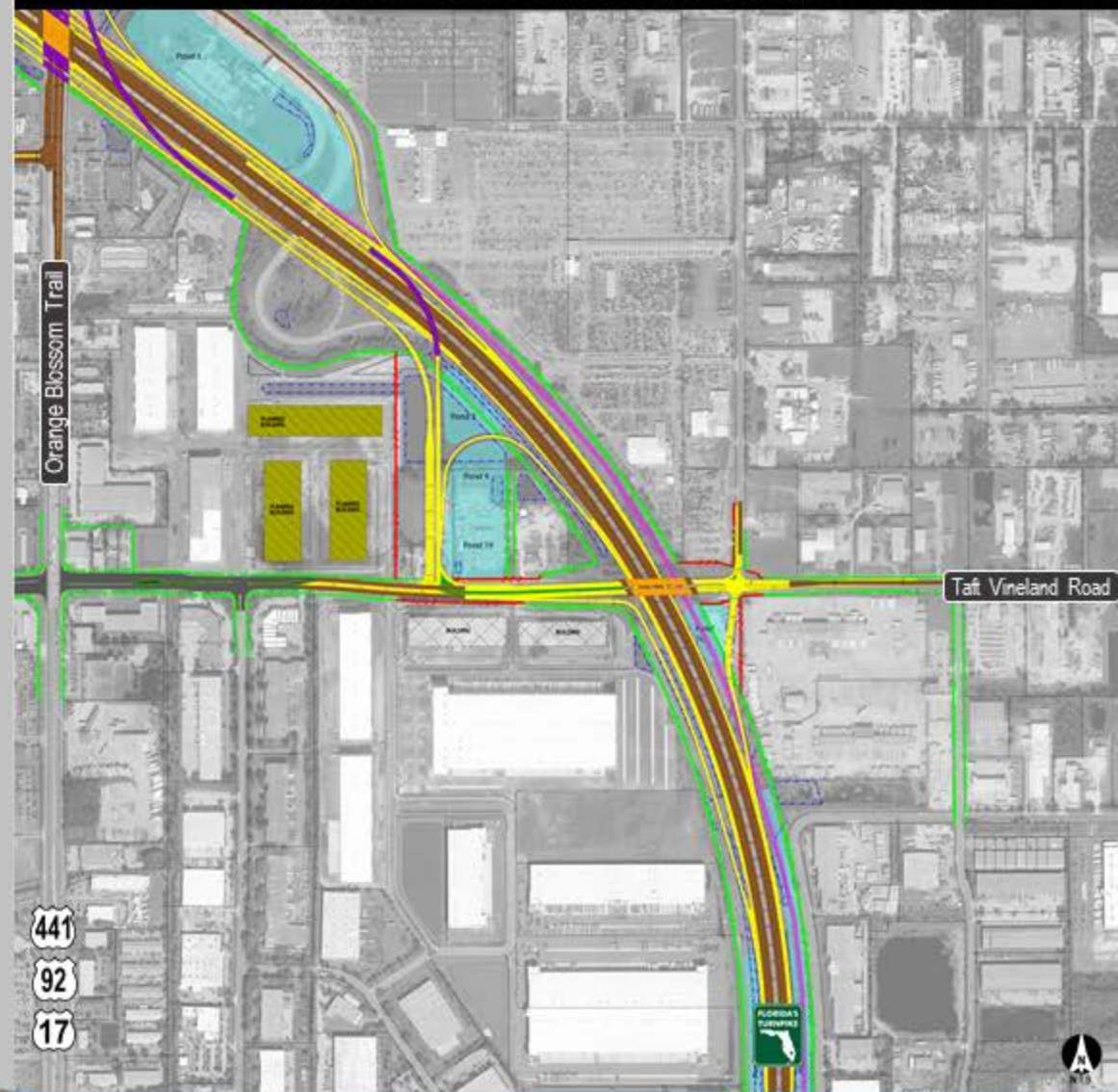




# NEW LOCAL ACCESS INTERCHANGES



Taft Vineland Road Reliever Interchange





## TRAFFIC BENEFITS: BUILD VERSUS NO-BUILD ALTERNATIVE

- 48% reduction in total signalized intersection control delay
- 26% reduction in network travel time
- Reduced congestion on arterials
- Lower potential for crashes
- Lower emissions

### *Benefits*

**-48%**

*Total Signalized Intersection Delay*

**-26%**

*Network Travel Time*

*Reduced Congestion on Arterials*

Build



No-Build

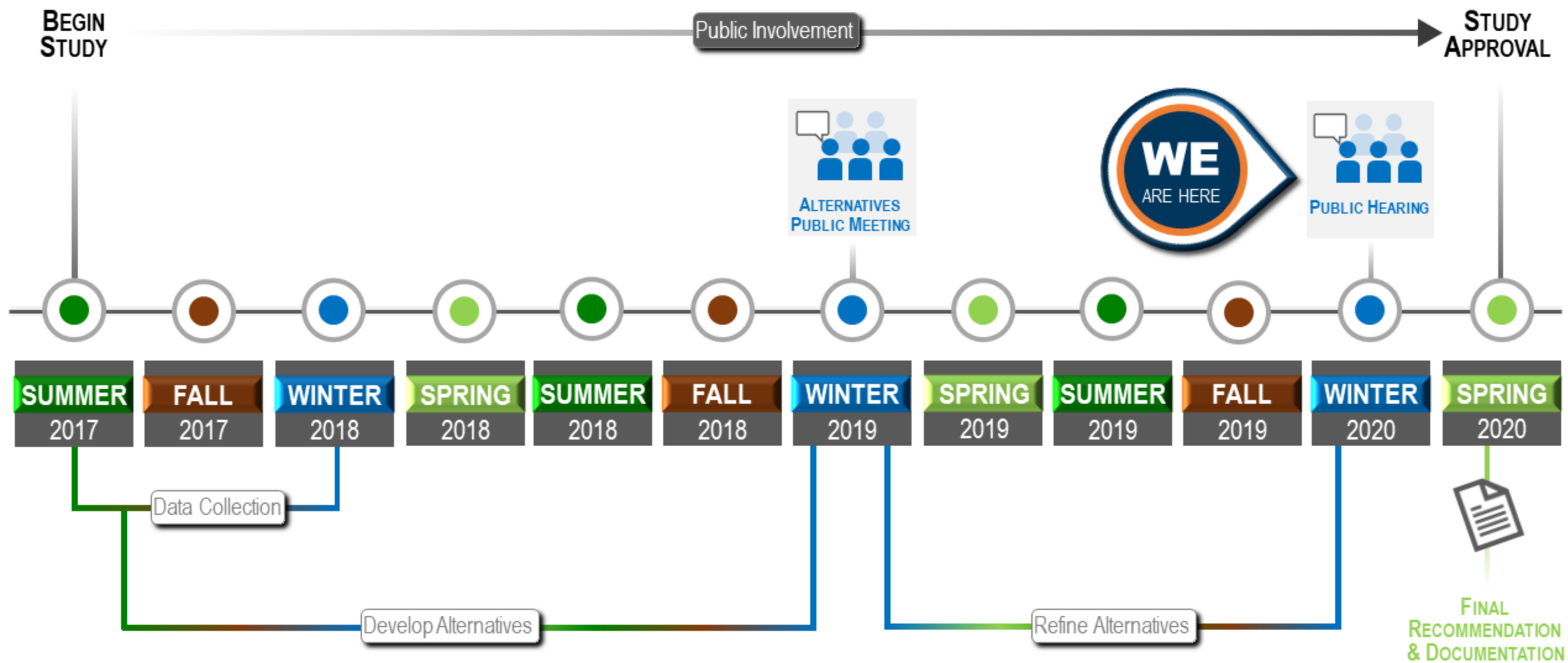




# NEXT STEPS





# STUDY SCHEDULE






- Review the Preferred Build Alternative
  - Conceptual design
  - Access management changes
  - Potential social, economic, and environmental effects
- Receive verbal and written public comments

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**(407) 264-3041**

Project Development and Environment (PDAE) Study at Florida's Turnpike (SR 91) and Beachline Expressway (SR 628)  
 Financial Project ID Number: 438547-1 | Efficient Transportation Decision Making (ETDM) Number: 14294



**SAVE THE DATE**  
**PUBLIC HEARING**  
 Tuesday, March 24, 2020  
 5:30 p.m. – Open House  
 6:30 p.m. – Formal Presentation  
 The Florida Hotel & Conference Center  
 at The Florida Mall  
 1500 Sand Lake Road  
 Orlando, FL 32809

Draft project documents available for review from March 2, 2020 to April 3, 2020	
<b>Universal Orlando Foundation Library (UCF Rosen Library)</b> 9907 Universal Boulevard Orlando, FL 32819 (407) 903-8100 Hours: Sunday 12 p.m. to 8 p.m. Monday – Thursday 8 a.m. to 9 p.m. Friday 8 a.m. to 5 p.m.	<b>Florida's Turnpike Enterprise Headquarters</b> Turkey Lake Service Plaza Communications Office, Stephanie Eisenberg Mile Post 263, Building #5315 Ocoee, FL 34761 (407) 532-3999 Hours: Monday – Friday 8 a.m. to 5 p.m.

A Public Hearing is being held to involve the public and stakeholders in the project development process. The purpose of this meeting is to present to the public the results of the study to date and to obtain comments regarding the preferred alternative.



Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability, or family status. Persons who require special accommodations under the Americans with Disabilities Act or persons who require translation services (free of charge) should contact Anil J. Sharma, P.E. at (407) 264-3041 or by email at [anil.sharma@dot.state.fl.us](mailto:anil.sharma@dot.state.fl.us) at least seven (7) days prior to the Public Hearing. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1(800) 955-8771 (TDD) or 1(800) 955-8770 (Voice).



Preliminary Design is funded. Right-of-way and Construction are not yet funded.

PHASE	
1	Planning Phase
2	Project Development & Environment Study
3	Design
4	Right of Way Acquisition
5	Construction
6	Maintenance



# QUESTIONS

