



SR 417 (Seminole Expressway) to Orlando Sanford International Airport Connector

Concept, Feasibility, and Mobility Study

Seminole County Board of County Commissioners

Michelle Maikisch, CFX Executive Director

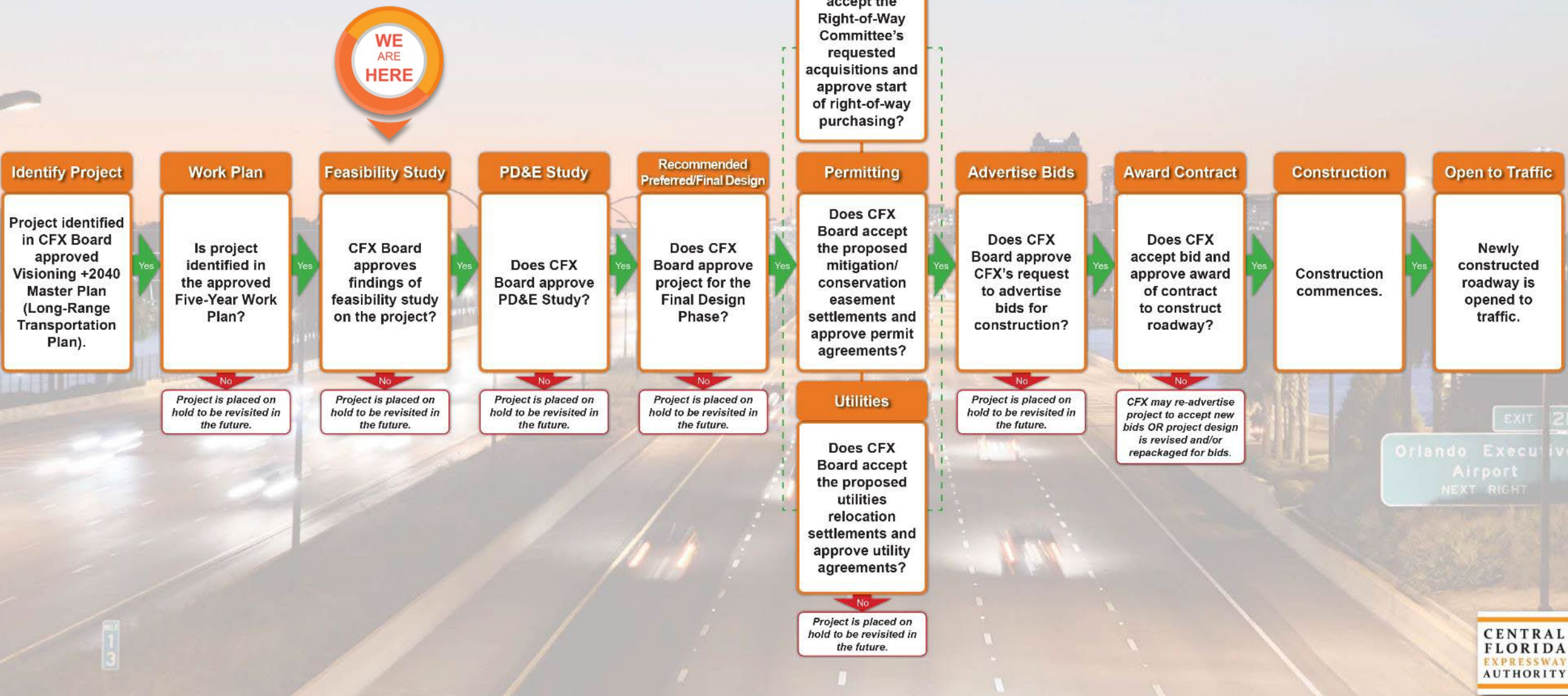
Glenn Pressimone, PE, CFX Chief of Infrastructure

Sunserea Gates, PE, VHB

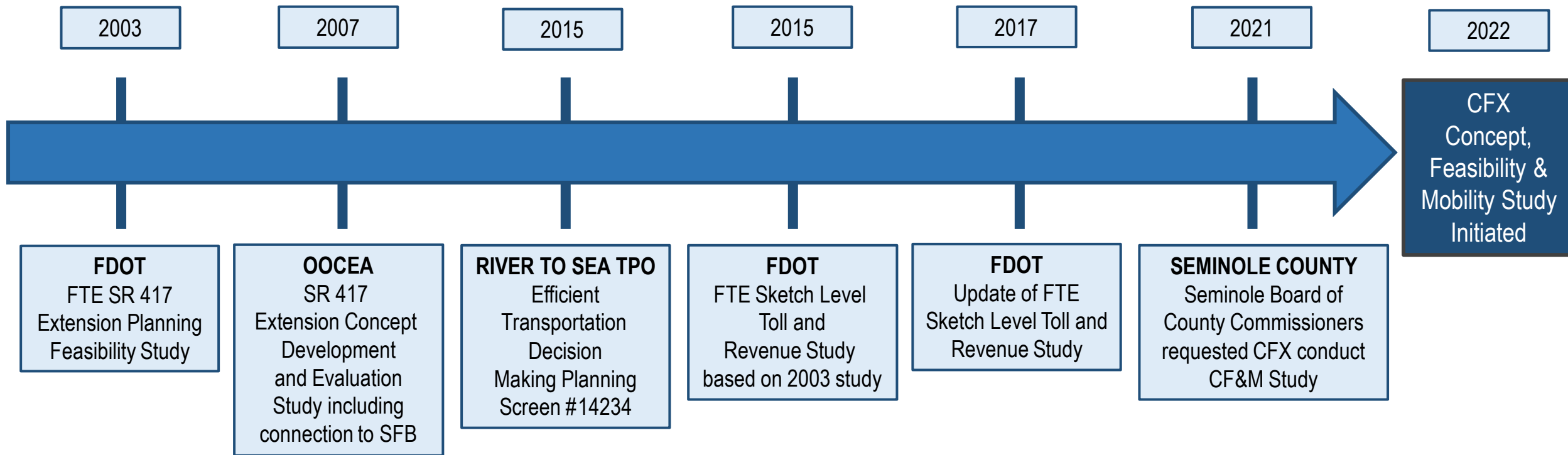
— May 23, 2023 —

PROJECT DEVELOPMENT PROCESS

New Alignment Expansion Projects



Project Background



Study Objectives

Identify Feasible Alternatives to provide a limited access connection within the study limits, including:

- Identify transportation mobility options
- Enhance direct access to the Orlando Sanford International Airport
- Enhance mobility for the area's growing population and economy
- Provide consistency with local plans and policies
- Promote regional connectivity
- Fulfill the recommendation of Seminole Board of County Commissioners to re-evaluate this corridor

CF&M Evaluation Criteria

Social Environment

- ❖ Residential
- ❖ Business
- ❖ Schools
- ❖ Churches
- ❖ Fire Stations
- ❖ Law Enforcement Facilities
- ❖ Cemeteries
- ❖ Approved and Planned Developments

Physical Environment

- ❖ Noise Sensitive Areas
- ❖ Railroads
- ❖ Major Utilities
- ❖ Contamination Sites
- ❖ Hazardous Material Sites
- ❖ Industrial Sites
- ❖ Underground Fuel Tanks

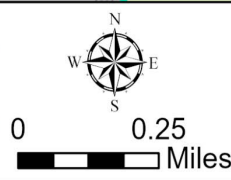
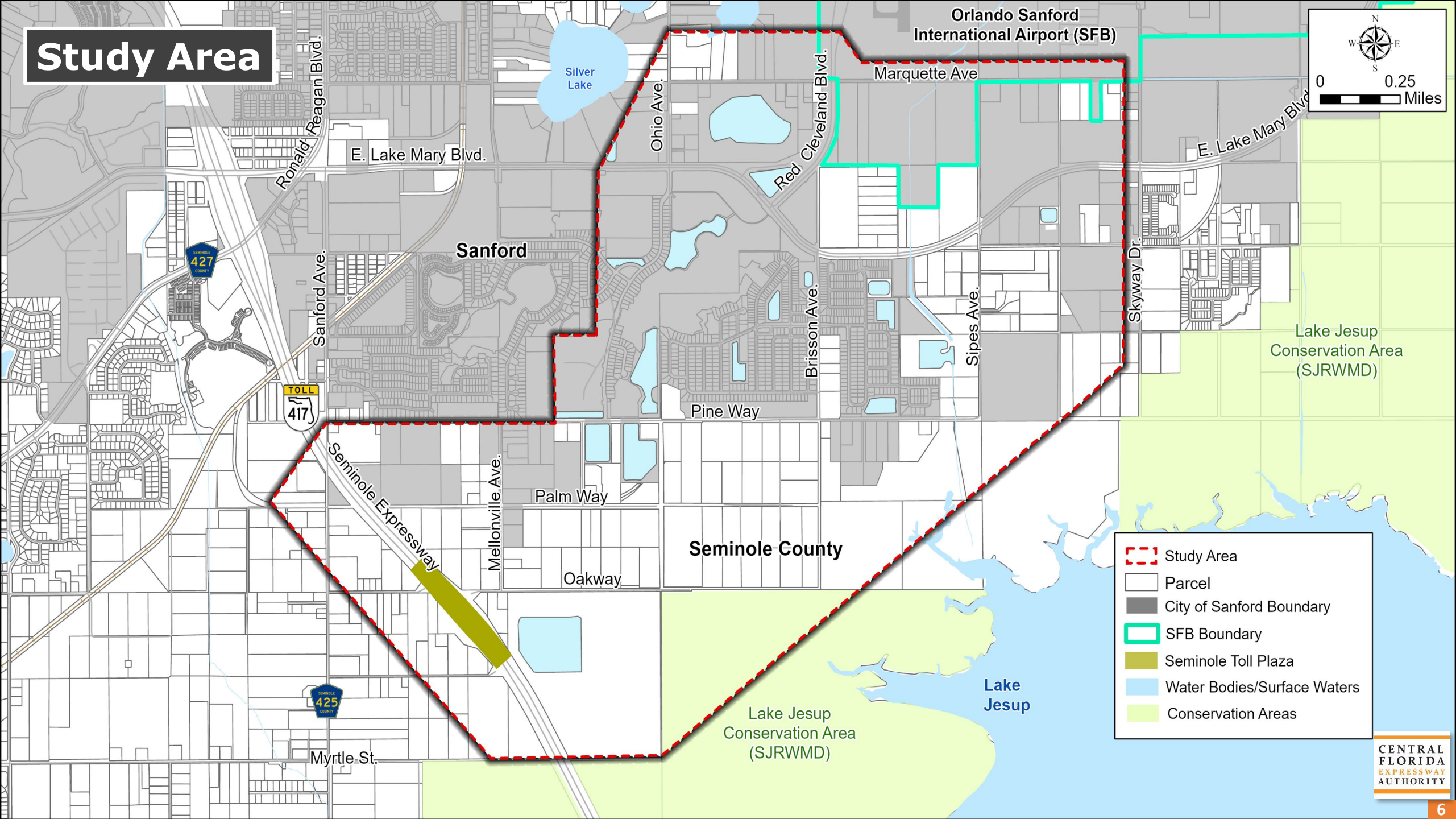
Natural Environment

- ❖ Wetlands
- ❖ Floodplains
- ❖ Protected Species
- ❖ Wildlife Habitat

Cultural Environment

- ❖ Parks & Recreation
- ❖ Public Lands
- ❖ Conservation Areas
- ❖ Trails & Greenways
- ❖ Potential Archaeological Sites
- ❖ Potential Historic Resources

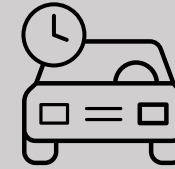
Study Area



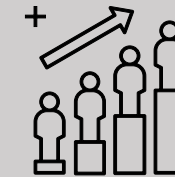
- Study Area
- Parcel
- City of Sanford Boundary
- SFB Boundary
- Seminole Toll Plaza
- Water Bodies/Surface Waters
- Conservation Areas

Purpose and Need

- Existing congestion at SR 417 and CR 427/East Lake Mary Blvd. Interchange
- Socioeconomic Growth
 - Airport projected to serve 2.7M passengers by 2037 (91% increase)
 - Seminole County population growth 21% by 2050
 - 10 planned developments or 55% of study area vacant lands
- Anticipated 2050 Traffic Growth
 - 54% increase on East Lake Mary Blvd. west of Red Cleveland Blvd.
- SR 417 and CR 427/East Lake Mary Blvd. Interchange Traffic Volume (2050)
 - Potential Connector diverts 17,000 vehicles/day
- Minimal decrease in traffic at SR 417 and Airport Boulevard Interchange (2050 Build)



**Relieves
Constrained Local
Roadways**



**Supports
Socioeconomic
Growth**



**Improves Regional
Connectivity**

Sociocultural Constraints

Planned Developments

Agricultural Lands

Vacant Parcel

Study Area

Parcel Boundary

SFB Boundary

City of Sanford Boundary

Water Bodies/Surface Waters

Seminole Toll Plaza

Existing Neighborhood

Trails

Trailhead

School

Sanford Army Reserve

Church

Boombah Sports Complex

Historic Resource Group

Historic Structure

Existing Land Use (Sept. 2022)

Residential

Vacant

Agriculture

Planned Development (Permitted)

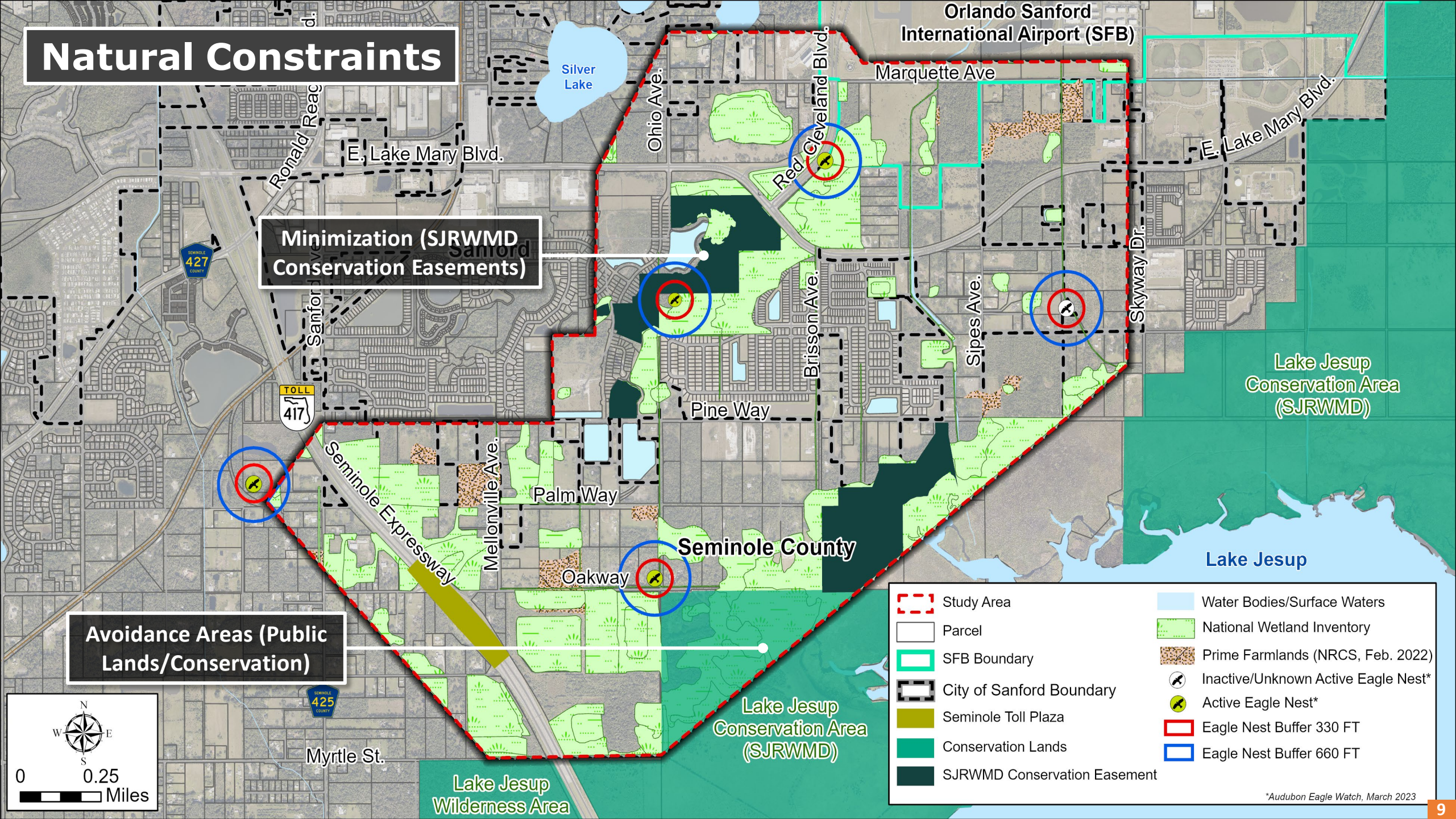
Planned Development (Pending)

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Natural Constraints

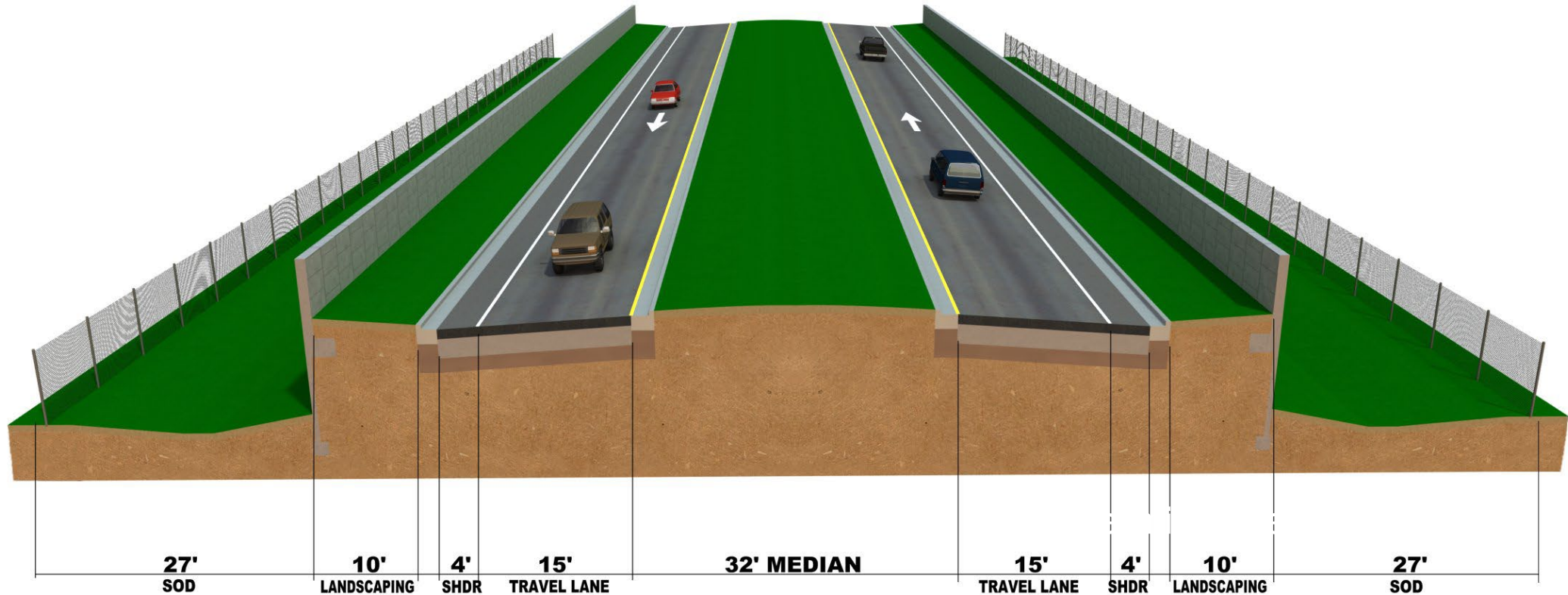
Minimization (SJRWMD
Conservation Easements)

Avoidance Areas (Public
Lands/Conservation)



- Study Area
- Parcel
- SFB Boundary
- City of Sanford Boundary
- Seminole Toll Plaza
- Conservation Lands
- SJRWMD Conservation Easement
- Water Bodies/Surface Waters
- National Wetland Inventory
- Prime Farmlands (NRCS, Feb. 2022)
- Inactive/Unknown Active Eagle Nest*
- Active Eagle Nest*
- Eagle Nest Buffer 330 FT
- Eagle Nest Buffer 660 FT

Proposed Connector Typical Section (2-Lane)



Design Speed = 45 mph
Approximate ROW = 150 feet

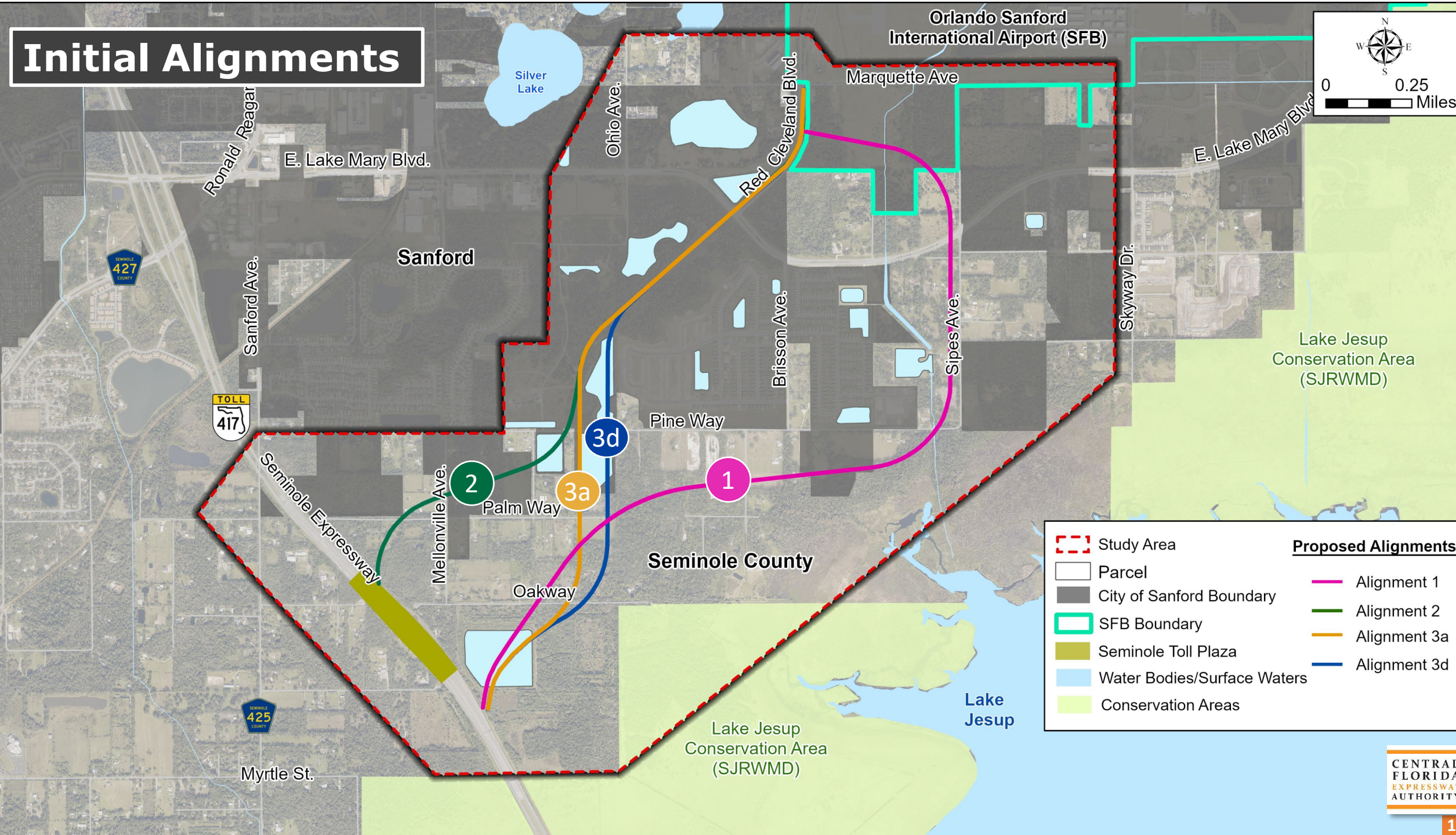
Proposed Interchange at East Lake Mary Blvd.



Preliminary Rendering

- Signalized Intersection
- Access to existing roadways maintained
- Full access to East Lake Mary Blvd.
- Improves future intersection operations

Initial Alignments



Range of Potential Impacts

- Project Length: 2.3 to 3.1 miles
- Projected 2050 AADT: 18,400 to 24,800 vehicles/day
- Anticipated Right-of-Way Needed: 53 to 71 acres
- Current Known Existing/Permitted Residential & Commercial Parcels: 19 to 50
- Public Lands: 0 acres
- Potential SJRWMD Conservation Easements: 2 to 14 acres
- Potential Wetlands: 7 to 19 acres
- Potential Floodplains: 0 to 2 acres
- Bald Eagle Nests in Area: 1 to 3 active nests
- Anticipated Federal-State/listed species involvement: Medium

Public and Agency Input

- ✓ Minimize proximity to Lake Jesup Conservation Area
- ✓ Avoid/Minimize impacts to SJRWMD conservation easements
- ✓ Review potential future wildlife connectivity
- ✓ Identify potential conservation mitigation opportunities
- ✓ Minimize wetland involvement at SR 417 interchange and consider elevated structures
- ✓ Avoid floodplain involvement and increased flooding
- ✓ Improve water quality
- ✓ Provide adequate stormwater management facilities and protect water resources
- ✓ Further evaluation of Alignment 2



St. Johns River
Water Management District



CITY OF
SANFORD
FLORIDA



Public Involvement Opportunities

Public Meeting Anticipated June 2023

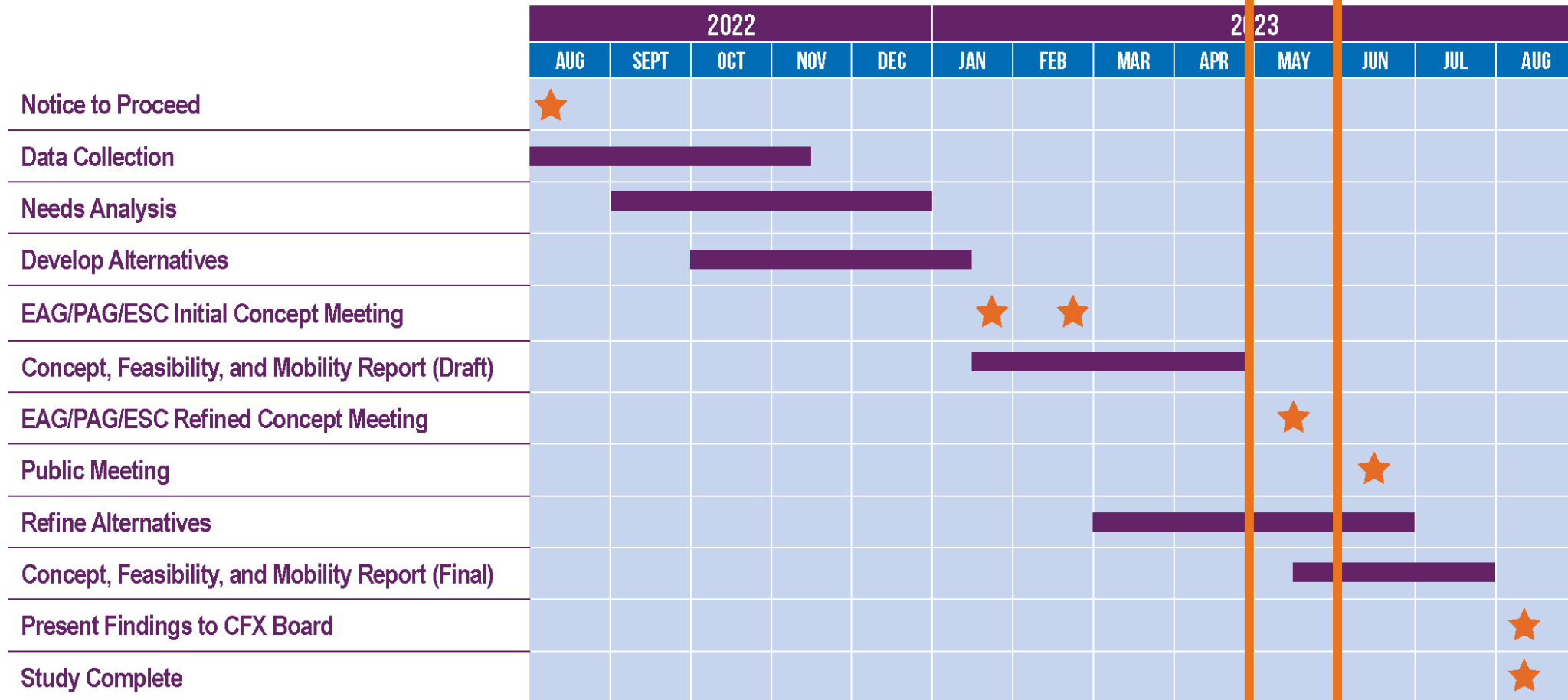
- Shortened study website address:
<http://bit.ly/SR417AirportConnector>
- CFX Web Address:
www.CFXway.com



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CF&M Schedule

(Subject to Change)



An aerial photograph of a multi-lane highway. The highway has several lanes in each direction, separated by a grassy median. On the right side, there is a toll plaza with overhead signs. The signs indicate a 'PAY TOLL 1 MILE' and provide instructions for 'E-ZPASS' (KEEP LEFT) and 'CASH LANES' (KEEP RIGHT). The highway is flanked by lush green trees and grass. The overall scene is bright and clear.

**CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY**

THANK YOU!