

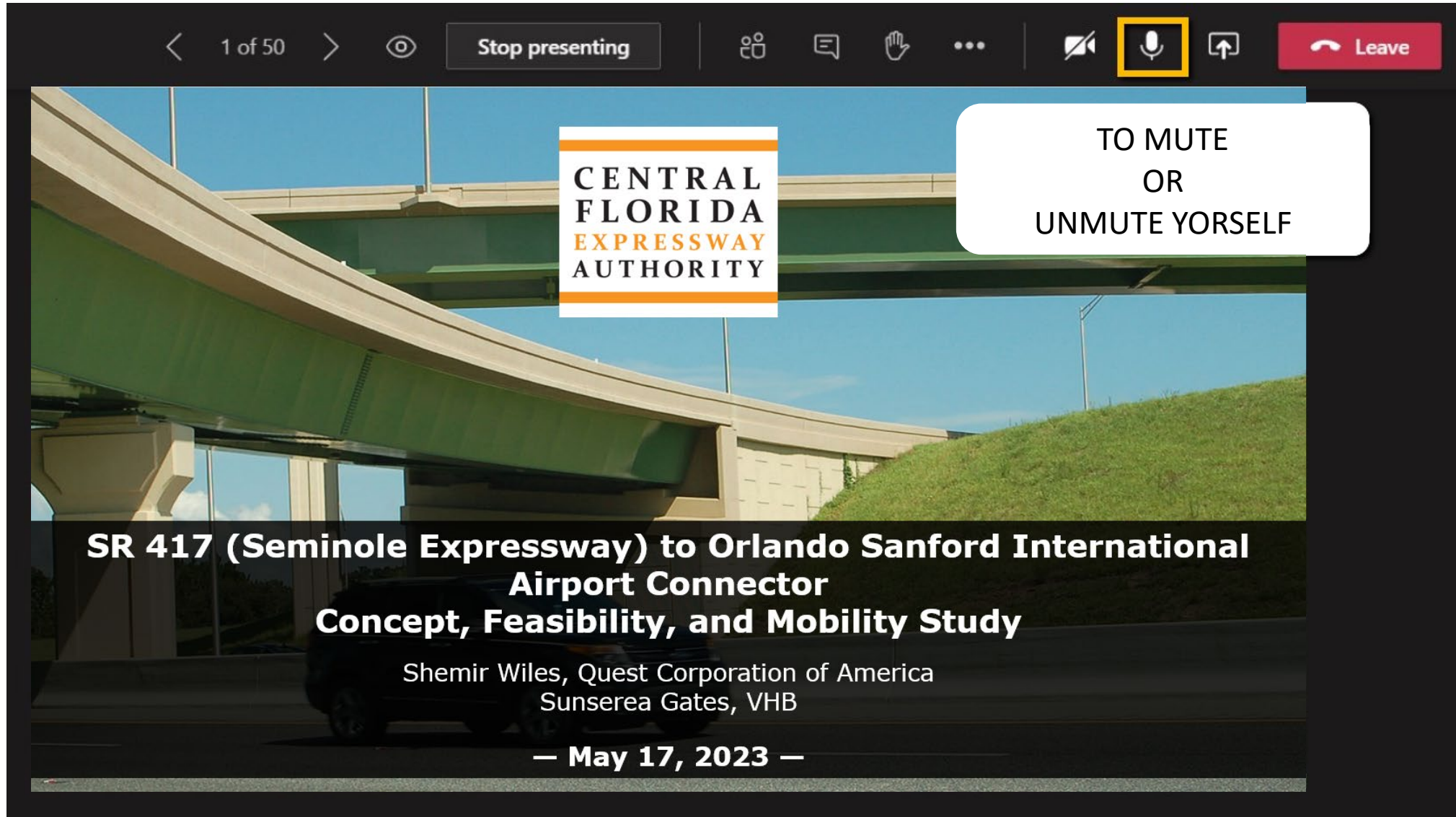


**SR 417 (Seminole Expressway) to Orlando Sanford International
Airport Connector
Concept, Feasibility, and Mobility Study**

Shemir Wiles, Quest Corporation of America
Sunserea Gates, VHB

— May 17, 2023 —

SR 417 to Orlando Sanford Airport Connector



The image is a screenshot of a video presentation interface. At the top, there is a dark control bar with various icons: a back arrow, '1 of 50', a full-screen icon, a 'Stop presenting' button, a person icon, a chat icon, a hand icon, a three-dot menu, a mute icon (highlighted with a yellow box), a share icon, and a red 'Leave' button. The main content area shows a slide with a background image of a highway interchange. The slide features the Central Florida Expressway Authority logo in the upper center. A white callout box on the right side of the slide contains the text 'TO MUTE OR UNMUTE YOURSELF'. The slide title is 'SR 417 (Seminole Expressway) to Orlando Sanford International Airport Connector Concept, Feasibility, and Mobility Study'. Below the title, the presenter's name and affiliation are listed: 'Shemir Wiles, Quest Corporation of America' and 'Sunserea Gates, VHB'. At the bottom of the slide, the date '— May 17, 2023 —' is displayed. In the bottom right corner of the video frame, there is a small version of the Central Florida Expressway Authority logo.

CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY

TO MUTE
OR
UNMUTE YOURSELF

**SR 417 (Seminole Expressway) to Orlando Sanford International
Airport Connector
Concept, Feasibility, and Mobility Study**

Shemir Wiles, Quest Corporation of America
Sunserea Gates, VHB

— May 17, 2023 —

CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY

SR 417 to Orlando Sanford Airport Connector

The image shows a Zoom meeting interface. The main video area displays a presentation slide with the Central Florida Expressway Authority logo and a title about a study for a road connector. A white callout box with a hand icon says 'TO RAISE YOUR HAND TO SPEAK'. The top toolbar includes 'Request control', a hand icon, and a 'Leave' button. The right sidebar shows a list of participants with their names and icons indicating if they can speak. The bottom of the screen shows a row of participant tiles for Colleen Shea, Dalton, Sunseara/ORL, Kathy Putnam, and Michael Baker.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TO RAISE YOUR HAND TO SPEAK

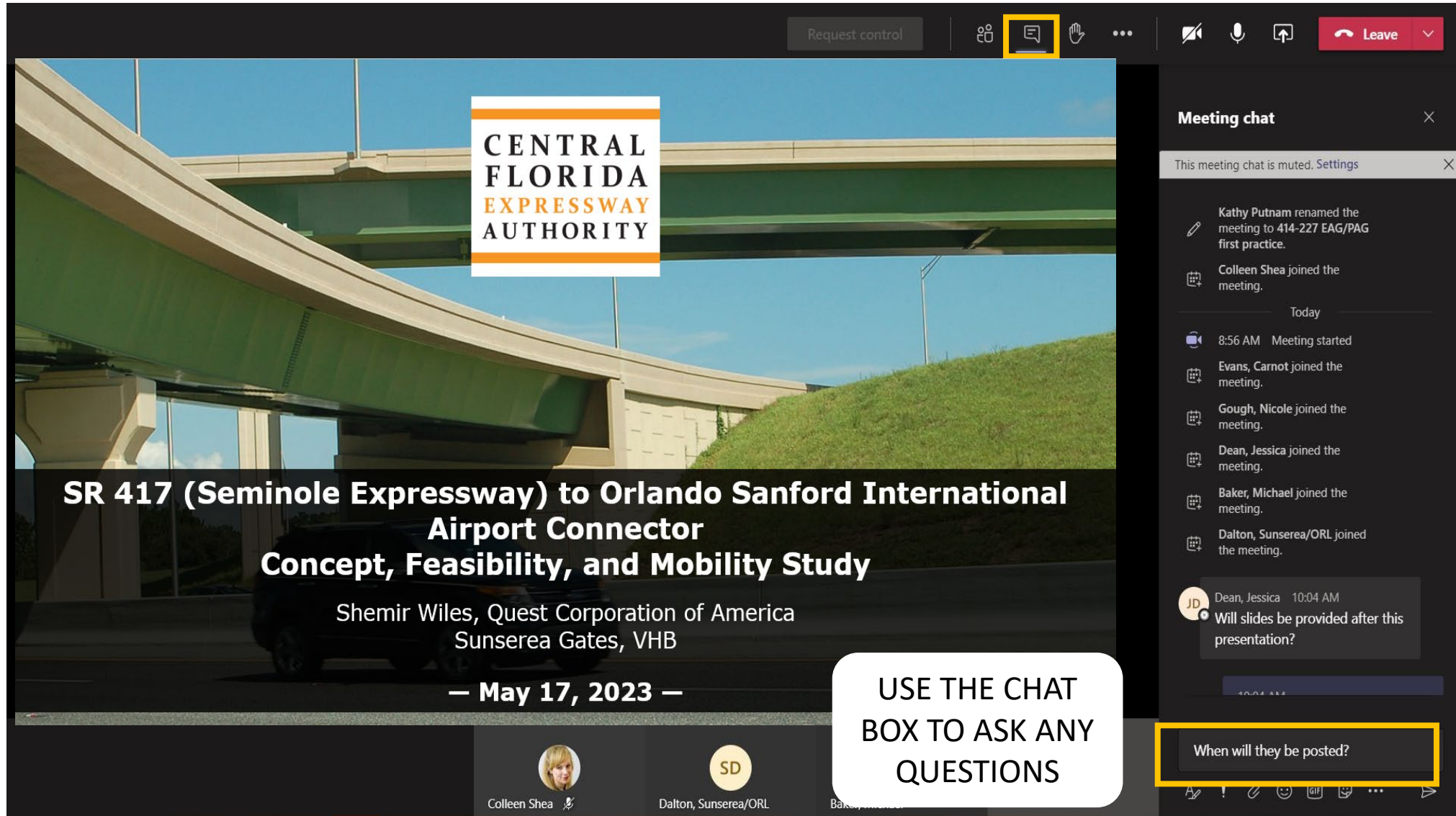
SR 417 (Seminole Expressway) to Orlando Sanford International Airport Connector
Concept, Feasibility, and Mobility Study
Shemir Wiles, Quest Corporation of America
Sunseara Gates, VHB
— May 17, 2023 —

Participants

- In this meeting (4)
 - MB Baker, Michael
 - KP Kathy Putnam, Organizer, Outside your organization (Hand icon)
 - CS Colleen Shea, Outside your organization
 - SD Dalton, Sunseara/ORL
- Others from chat (1)
 - JD Dean, Jessica

Participant Tiles: CS Colleen Shea, SD Dalton, Sunseara/ORL, KP Kathy Putnam, MB Baker, Michael

SR 417 to Orlando Sanford Airport Connector



The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide with the Central Florida Expressway Authority logo at the top. The slide title is "SR 417 (Seminole Expressway) to Orlando Sanford International Airport Connector Concept, Feasibility, and Mobility Study". Below the title, it lists "Shemir Wiles, Quest Corporation of America" and "Sunserea Gates, VHB", followed by the date "— May 17, 2023 —". The slide background features a rendering of a highway interchange. The Zoom interface includes a top toolbar with icons for "Request control", participants, chat (highlighted with a yellow box), and a "Leave" button. On the right, a "Meeting chat" panel is open, showing a muted chat status and a list of participants who have joined. A chat message from "JD" (Dean, Jessica) asks, "Will slides be provided after this presentation?". At the bottom of the chat panel, a text input field contains the question "When will they be posted?". The bottom of the Zoom window shows a gallery of participants, including Colleen Shea and Dalton, Sunserea/ORL.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SR 417 (Seminole Expressway) to Orlando Sanford International Airport Connector
Concept, Feasibility, and Mobility Study

Shemir Wiles, Quest Corporation of America
Sunserea Gates, VHB

— May 17, 2023 —

USE THE CHAT BOX TO ASK ANY QUESTIONS

Meeting chat

This meeting chat is muted. Settings

Kathy Putnam renamed the meeting to 414-227 EAG/PAG first practice.

Colleen Shea joined the meeting.

Today

8:56 AM Meeting started

Evans, Carnot joined the meeting.

Gough, Nicole joined the meeting.

Dean, Jessica joined the meeting.

Baker, Michael joined the meeting.

Dalton, Sunserea/ORL joined the meeting.

JD Dean, Jessica 10:04 AM
Will slides be provided after this presentation?

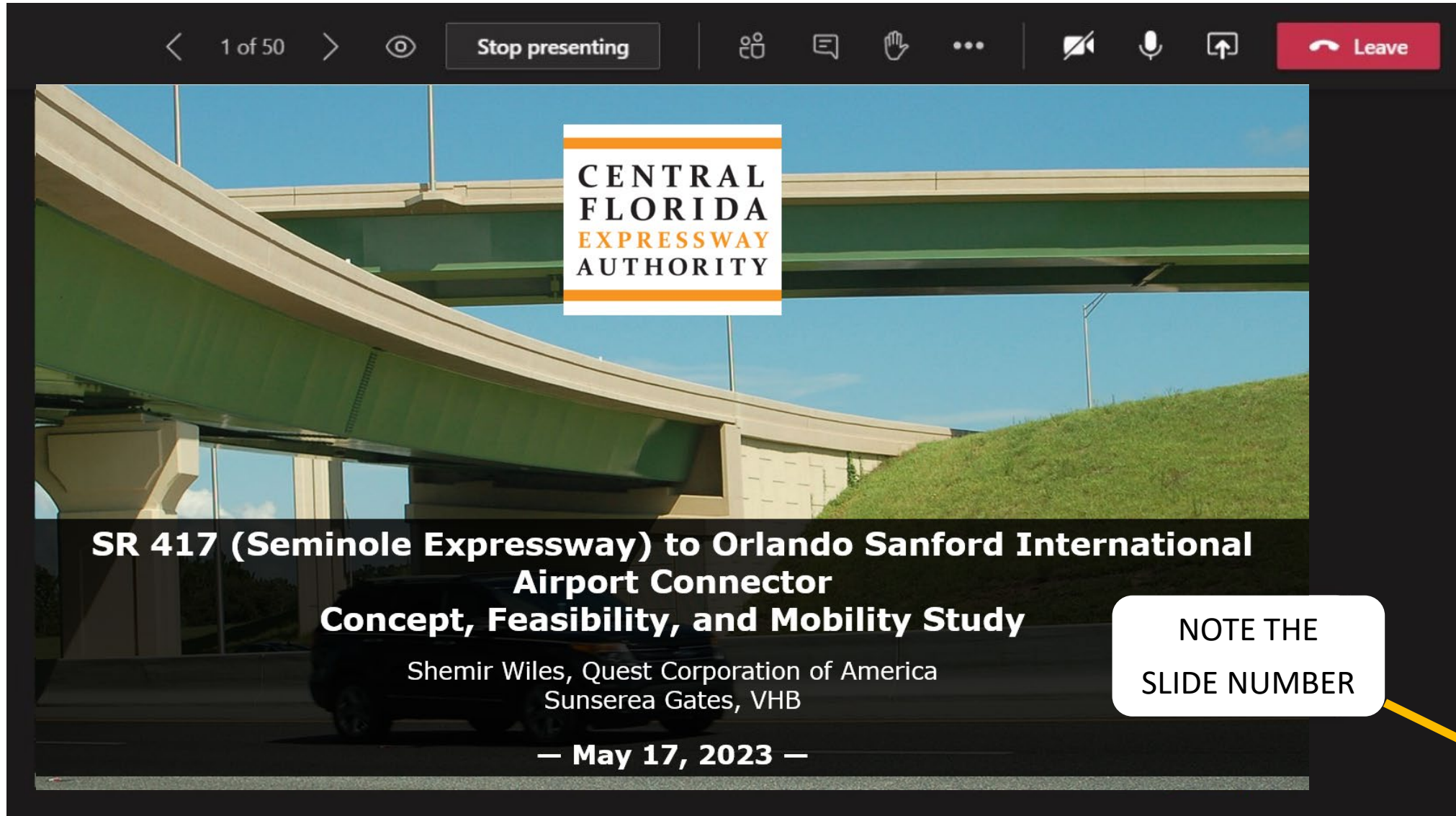
When will they be posted?

Colleen Shea

Dalton, Sunserea/ORL

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SR 417 to Orlando Sanford Airport Connector



1 of 50

Stop presenting

Leave

**CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY**

**SR 417 (Seminole Expressway) to Orlando Sanford International
Airport Connector
Concept, Feasibility, and Mobility Study**

Shemir Wiles, Quest Corporation of America
Sunserea Gates, VHB

— May 17, 2023 —

NOTE THE
SLIDE NUMBER

SR 417 to Orlando Sanford Airport Connector

The image shows a Zoom meeting interface. The main video area displays a presentation slide with the Central Florida Expressway Authority logo and a call to action to view participants. The slide text includes the project title, presenter information, and the date. The right sidebar shows a list of participants, and the bottom bar shows the active participants' avatars.

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

TO VIEW THE PARTICIPANTS

SR 417 (Seminole Expressway) to Orlando Sanford International Airport Connector
Concept, Feasibility, and Mobility Study

Shemir Wiles, Quest Corporation of America
Sunserea Gates, VHB

— May 17, 2023 —

Participants

Type a name

In this meeting (4) **Mute all**

- MB Baker, Michael
- CS Colleen Shea
Outside your organization
- SD Dalton, Sunserea/ORL
- KP Kathy Putnam
Organizer
Outside your organization

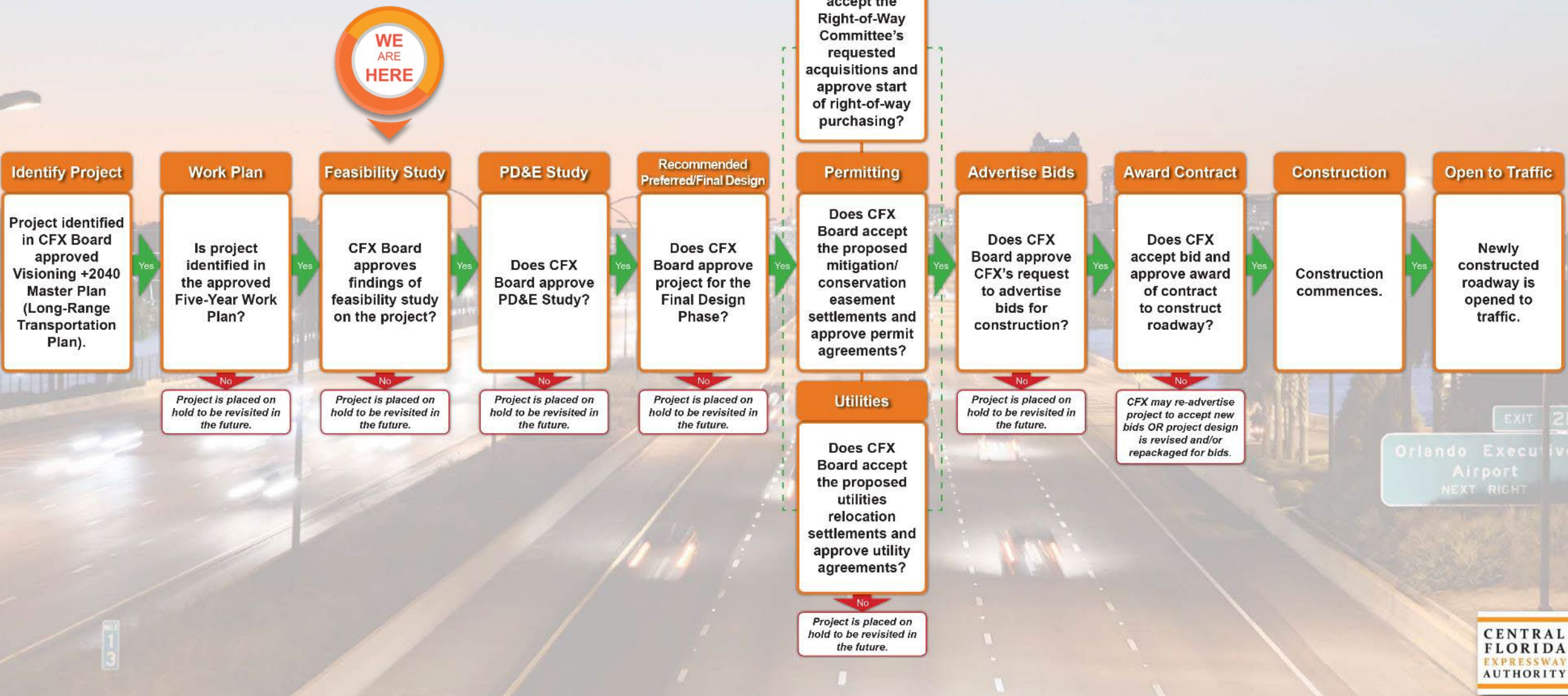
Others from chat (1)

- JD Dean, Jessica

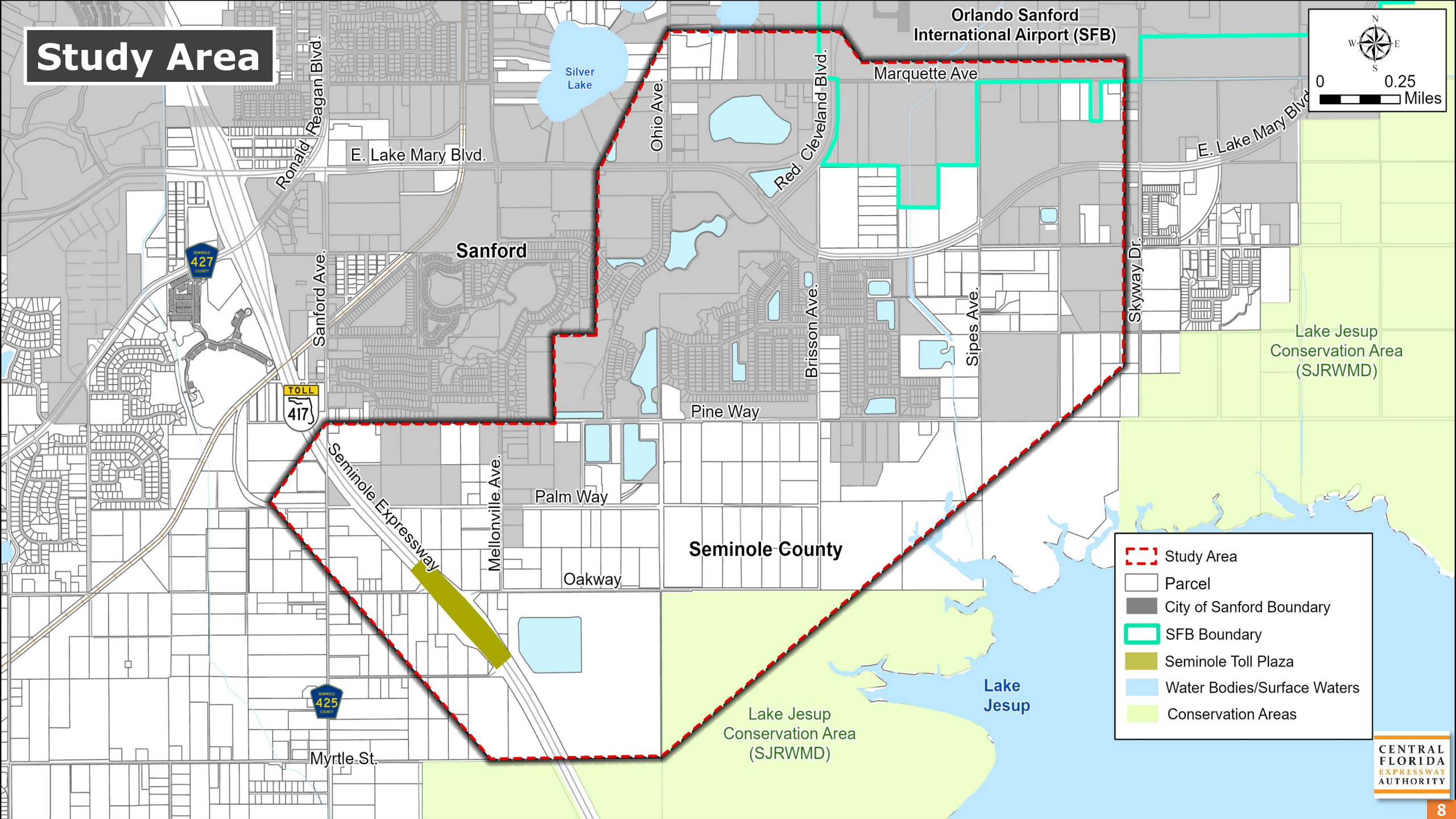
Active Participants: CS Colleen Shea, SD Dalton, Sunserea/ORL, KP Kathy Putnam, MB Baker, Michael

PROJECT DEVELOPMENT PROCESS

New Alignment Expansion Projects

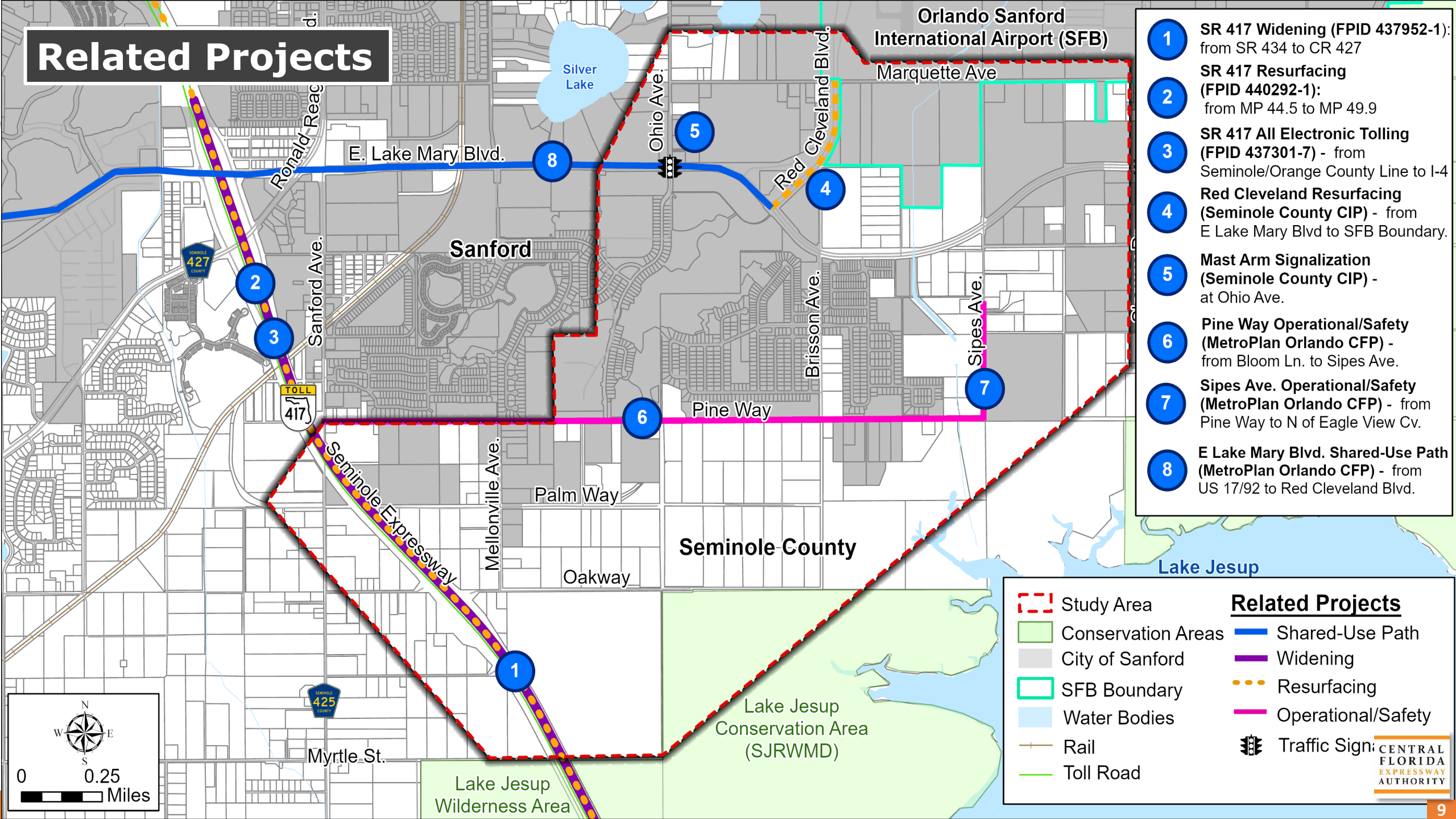


Study Area



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

Related Projects



- 1 SR 417 Widening (FPID 437952-1):
from SR 434 to CR 427
- 2 SR 417 Resurfacing (FPID 440292-1):
from MP 44.5 to MP 49.9
- 3 SR 417 All Electronic Tolling (FPID 437301-7) - from
Seminole/Orange County Line to I-4
- 4 Red Cleveland Resurfacing (Seminole County CIP) - from
E Lake Mary Blvd to SFB Boundary.
- 5 Mast Arm Signalization (Seminole County CIP) -
at Ohio Ave.
- 6 Pine Way Operational/Safety (MetroPlan Orlando CFP) -
from Bloom Ln. to Sipes Ave.
- 7 Sipes Ave. Operational/Safety (MetroPlan Orlando CFP) - from
Pine Way to N of Eagle View Cv.
- 8 E Lake Mary Blvd. Shared-Use Path (MetroPlan Orlando CFP) - from
US 17/92 to Red Cleveland Blvd.

Study Area

Conservation Areas

City of Sanford

SFB Boundary

Water Bodies

Rail

Toll Road

Related Projects

Shared-Use Path

Widening

Resurfacing

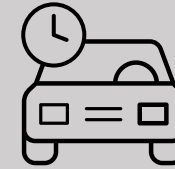
Operational/Safety

Traffic Sign

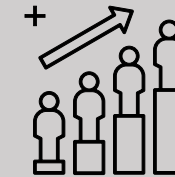
0 0.25 Miles

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 (enplanements) 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
 - Potential Connector diverts 17,000 vehicles/day (in 2050)



**Relieves
Constrained Local
Roadways**



**Supports
Socioeconomic
Growth**



**Improves Regional
Connectivity**

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

Advisory Group Roles

Environmental (EAG)

- Comprised of members representing environmental/government agencies and community/advocacy groups
- Members are invited by CFX to join
- Natural environment analysis
- Special advisory resource
- Input on potential environmental impact of project alternatives
- Local knowledge, issues and concerns regarding environmental impacts

Project (PAG)

- Comprised of members representing government/transportation planning agencies and other key stakeholders
- Members are invited by CFX to join
- Mobility analysis
- Special advisory resource
- Input on project alternatives
- Local knowledge, issues and concerns

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

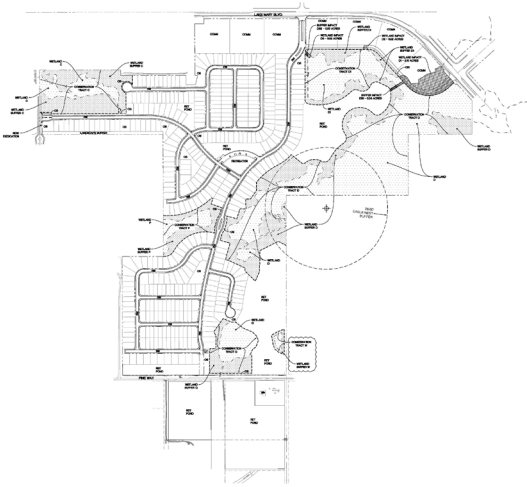


CITY OF
SANFORD
FLORIDA

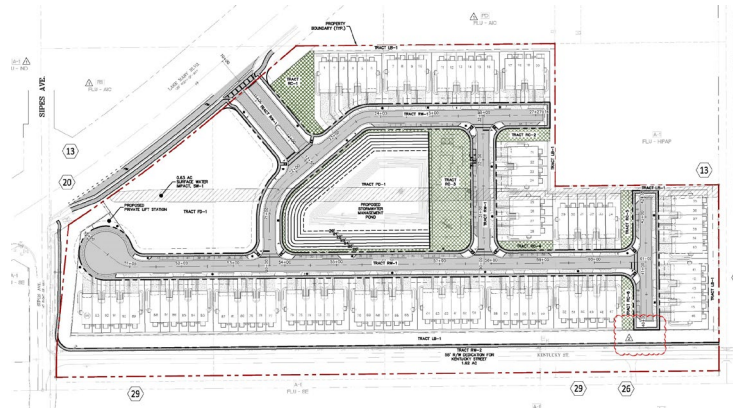


Future Land Use Changes

Concorde



Skylar Crest



Concorde

- 232.46 acres
- 421 single-family lots

Skylar Crest

- 14.69 acres
- 94 townhomes

Palmetto Pointe

- 39.76 acres
- 100 single-family lots

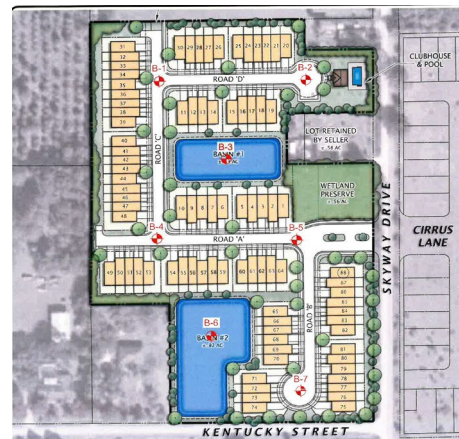
Parkview Place – Phase 2

- 14.94 acres
- 85 townhomes

Palmetto Pointe



Parkview Place – Phase 2

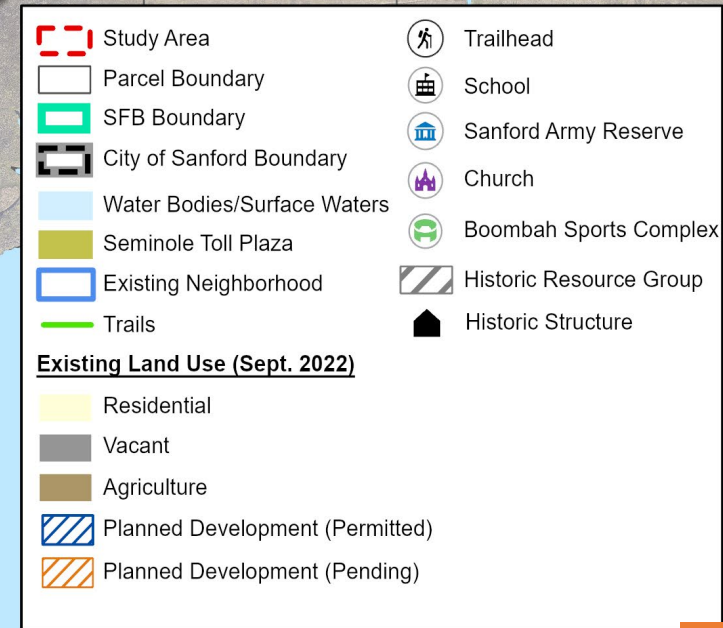


Sociocultural Constraints

Planned Developments

Agricultural Lands

Vacant Parcel



Natural Constraints

Minimization (SJRWMD
Conservation Easements)

Avoidance Areas (Public
Lands/Conservation)

Seminole County

Orlando Sanford
International Airport (SFB)

Marquette Ave

E. Lake Mary Blvd.

Lake Jesup
Conservation Area
(SJRWMD)

Lake Jesup

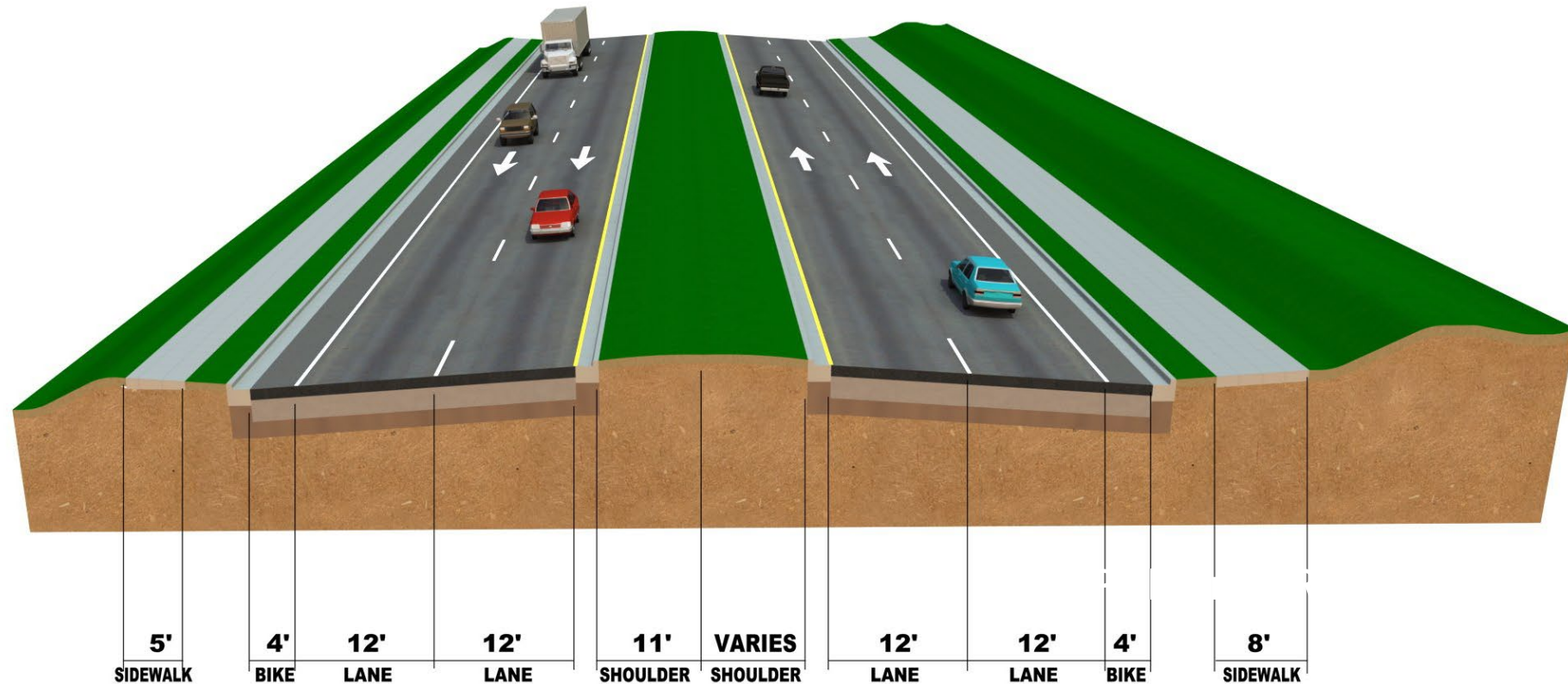
Lake Jesup
Conservation Area
(SJRWMD)

Lake Jesup
Wilderness Area



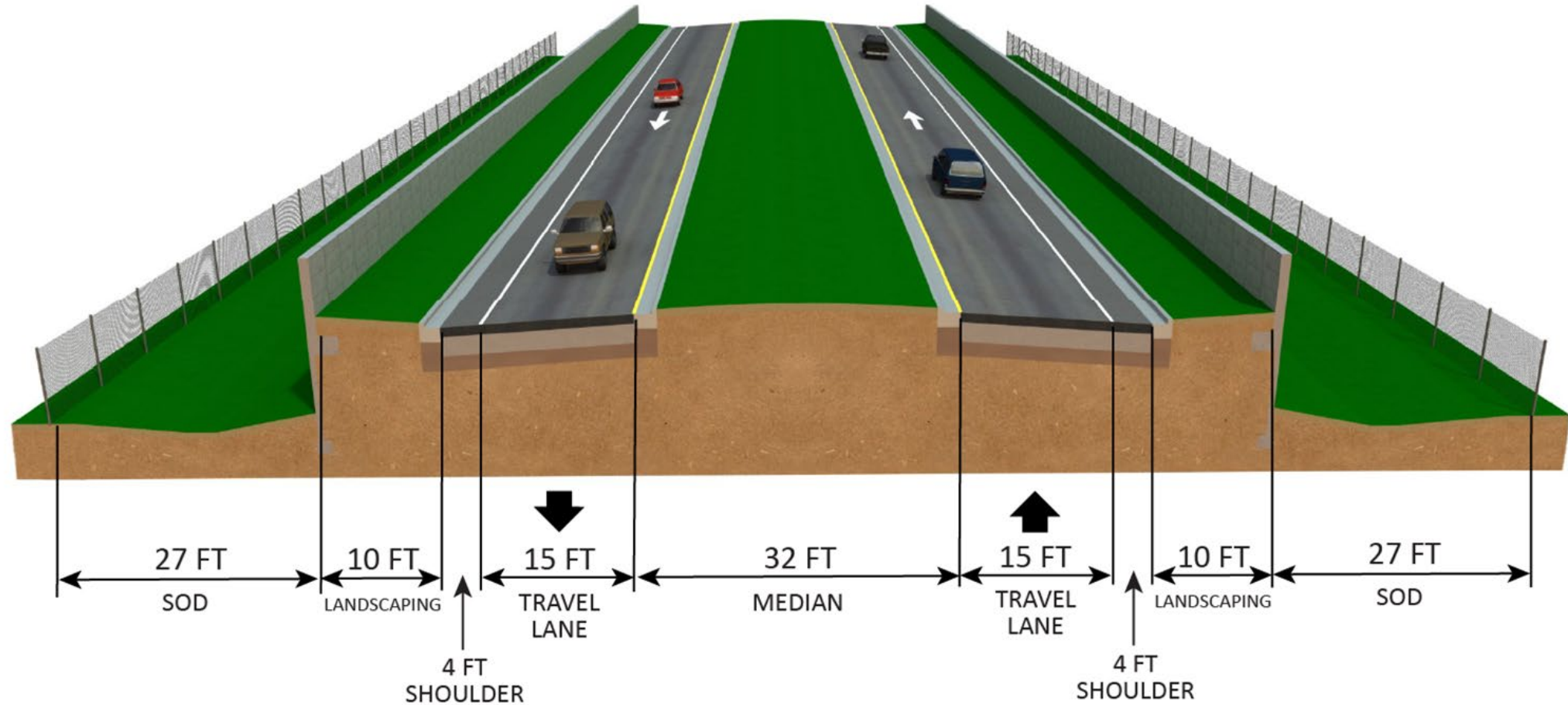
0 0.25
Miles

East Lake Mary Blvd. Existing Typical Section



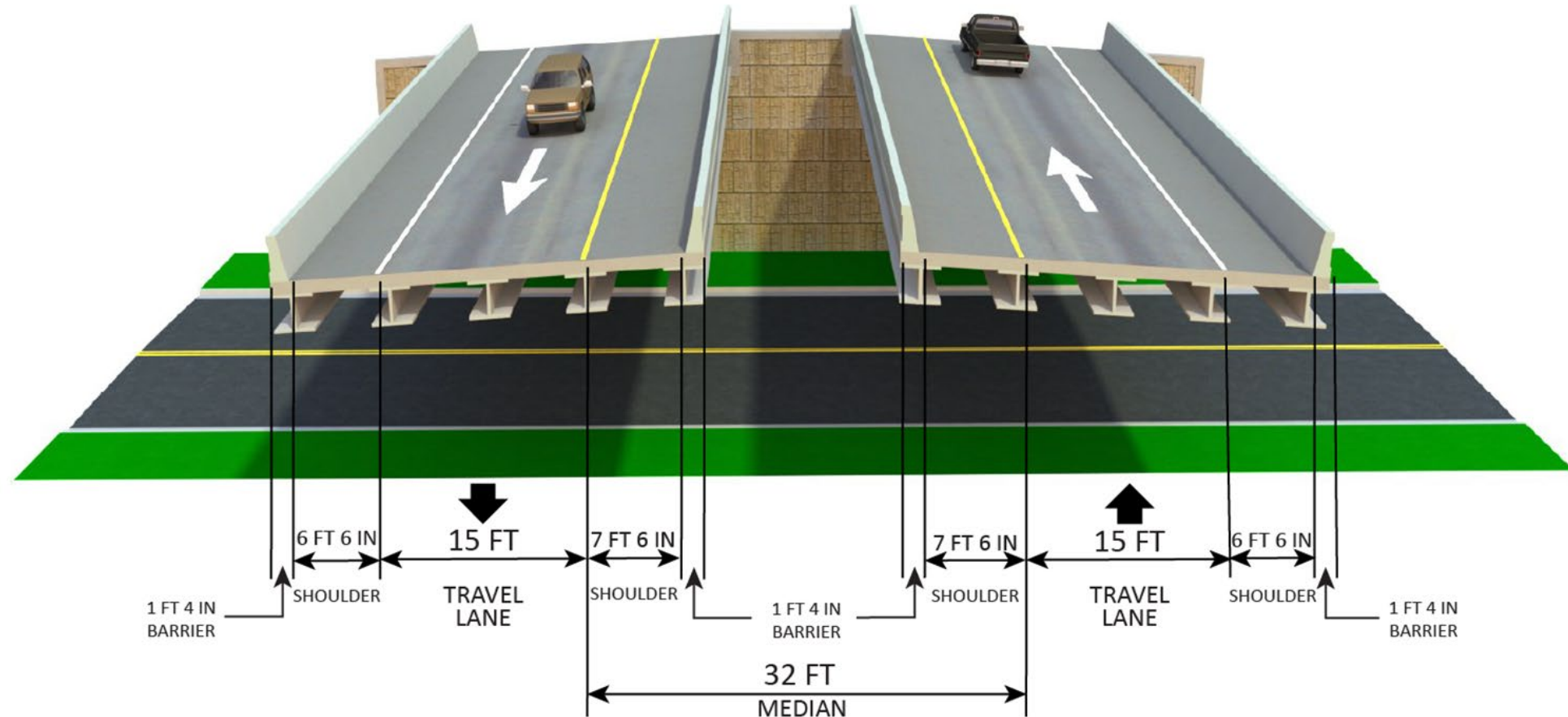
(from Ohio Avenue to Brisson Avenue)

Proposed Connector Typical Section (2-Lane)



Design Speed = 45 mph
Approximate ROW = 150 feet

Proposed Connector Bridge Typical Section

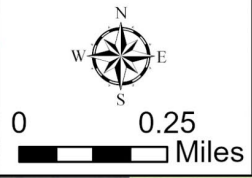
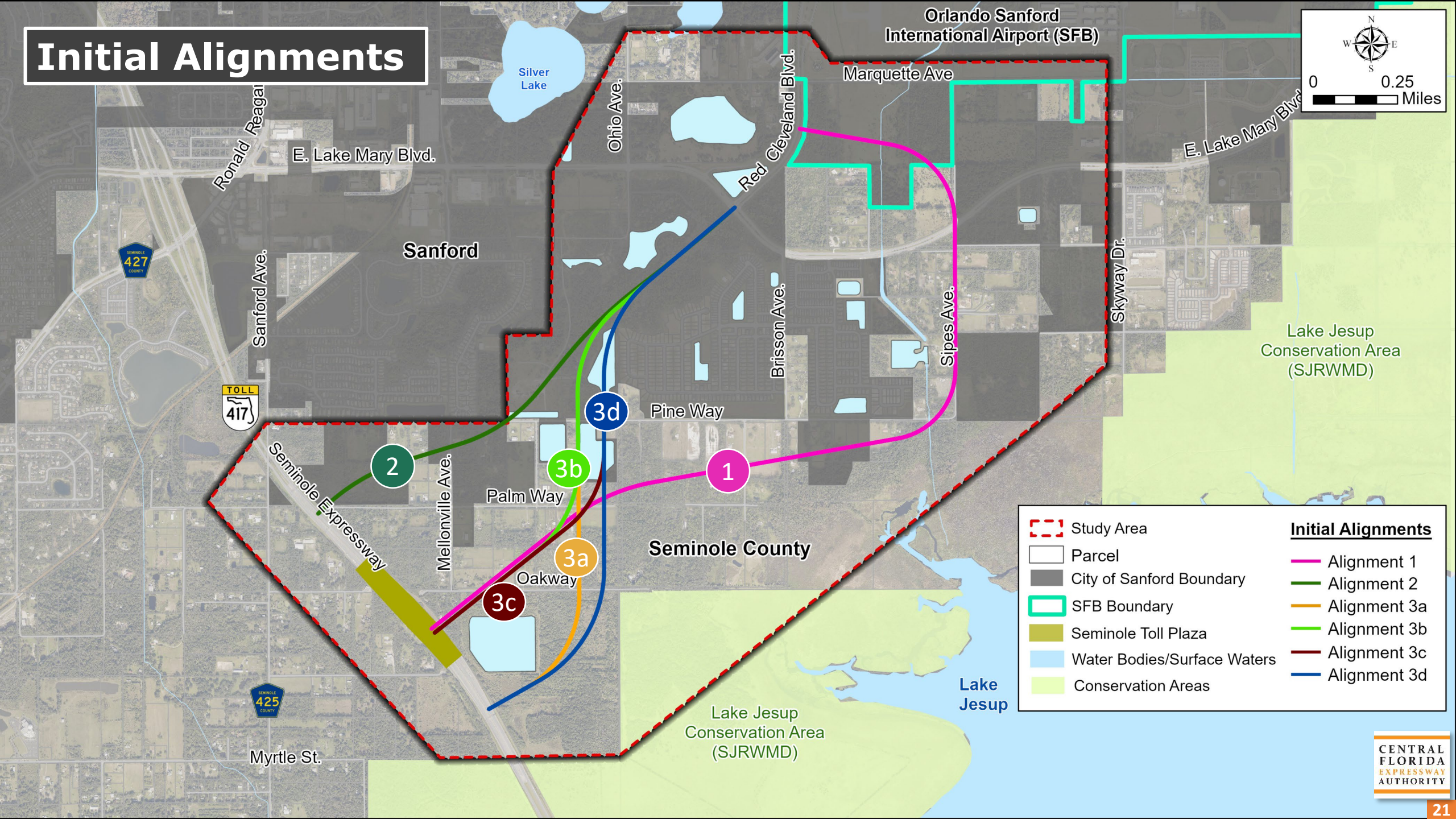


Typical is for local road crossings under 500 ft. in length

Design Speed = 45 mph

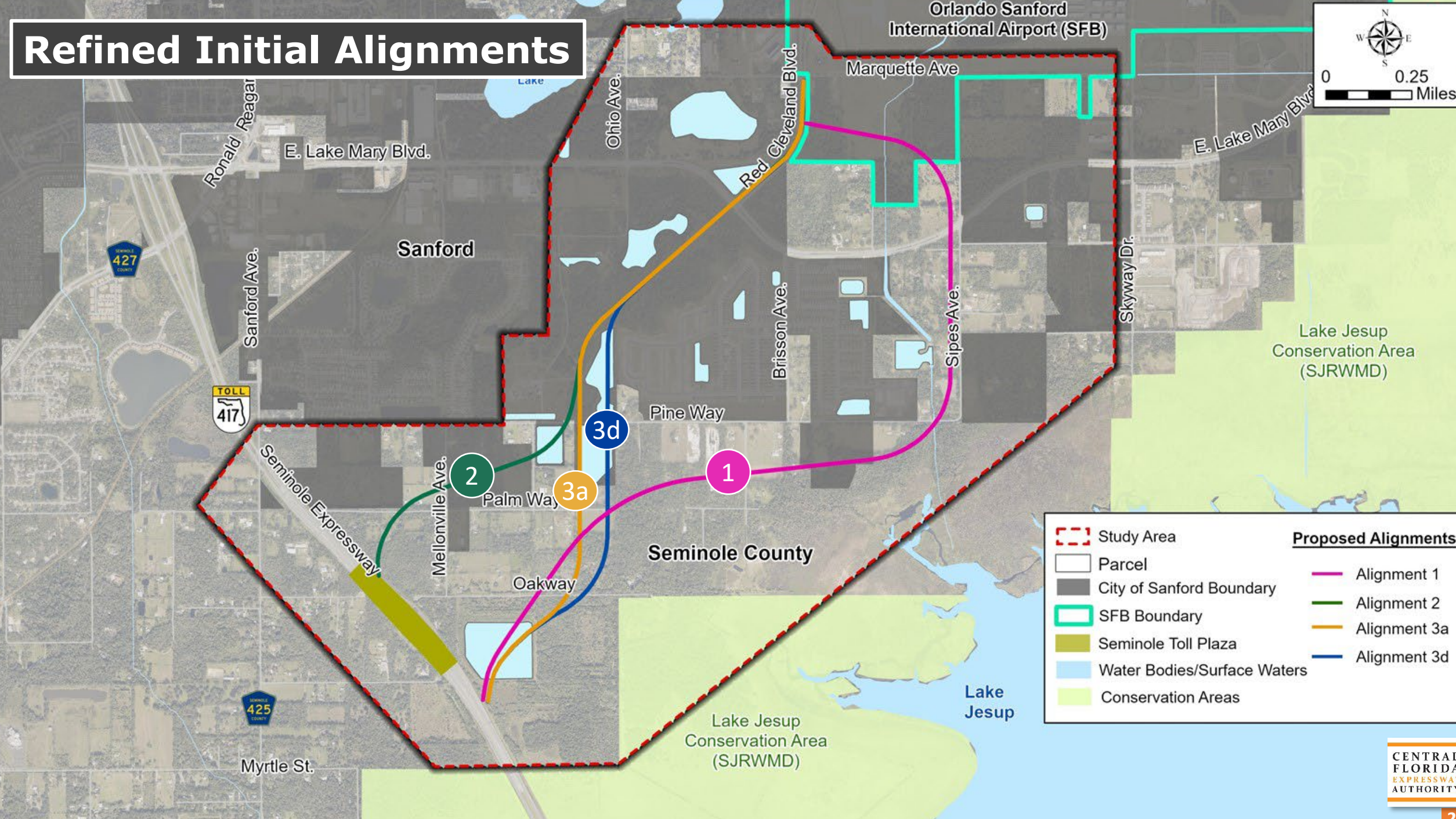
Approximate ROW = 77 feet & 8 inches

Initial Alignments

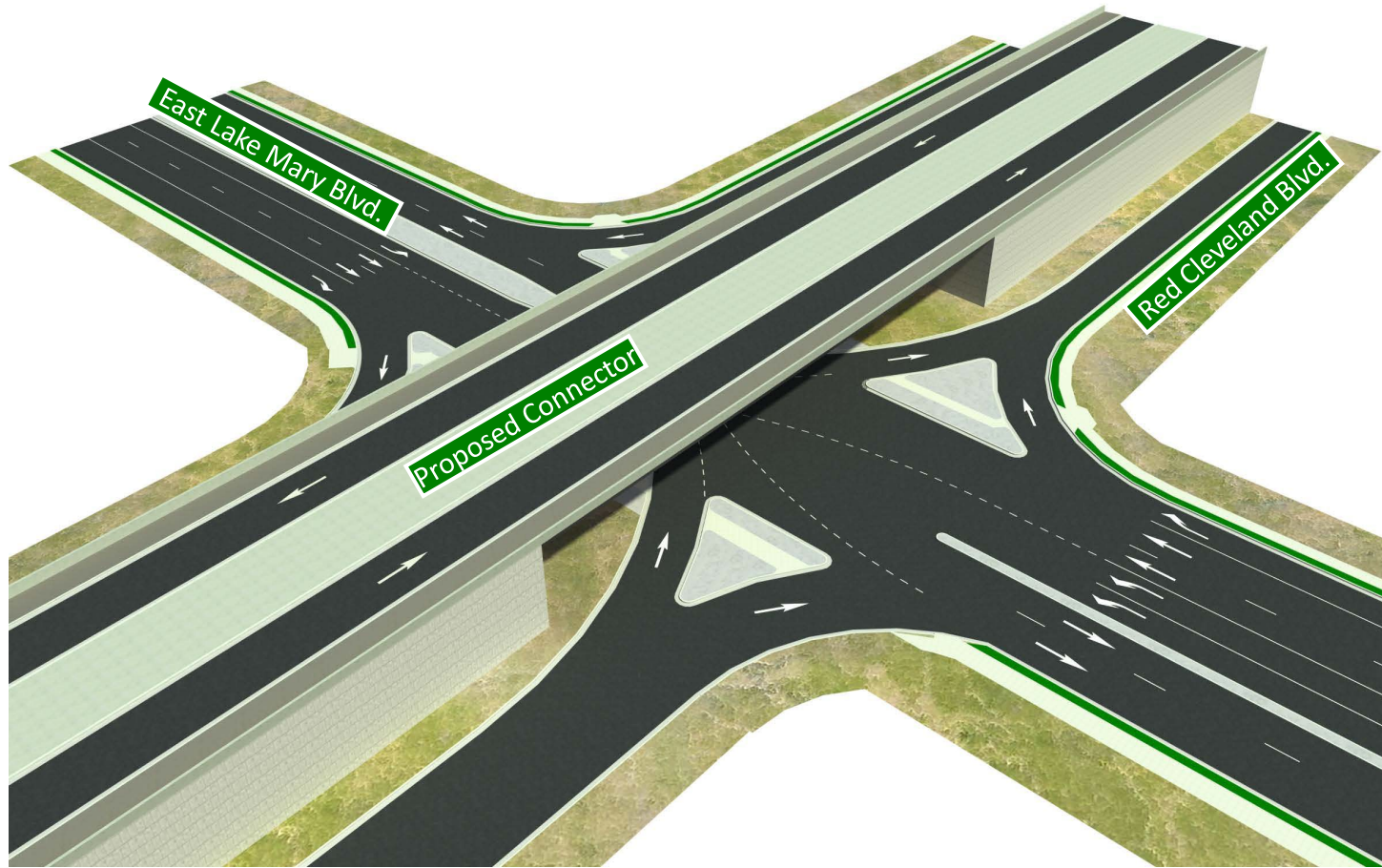


Study Area	Initial Alignments
Parcel	Alignment 1
City of Sanford Boundary	Alignment 2
SFB Boundary	Alignment 3a
Seminole Toll Plaza	Alignment 3b
Water Bodies/Surface Waters	Alignment 3c
Conservation Areas	Alignment 3d

Refined Initial Alignments



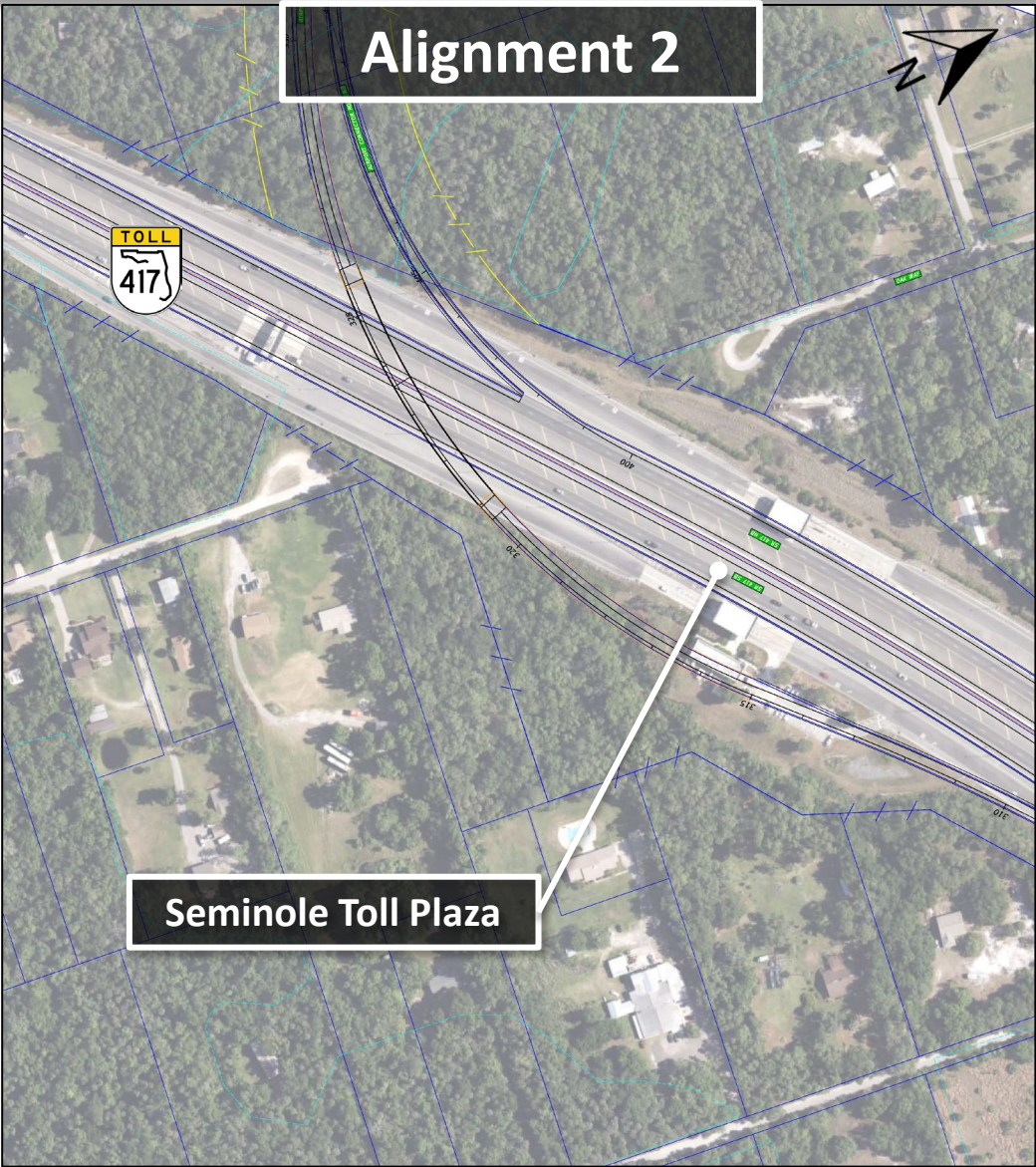
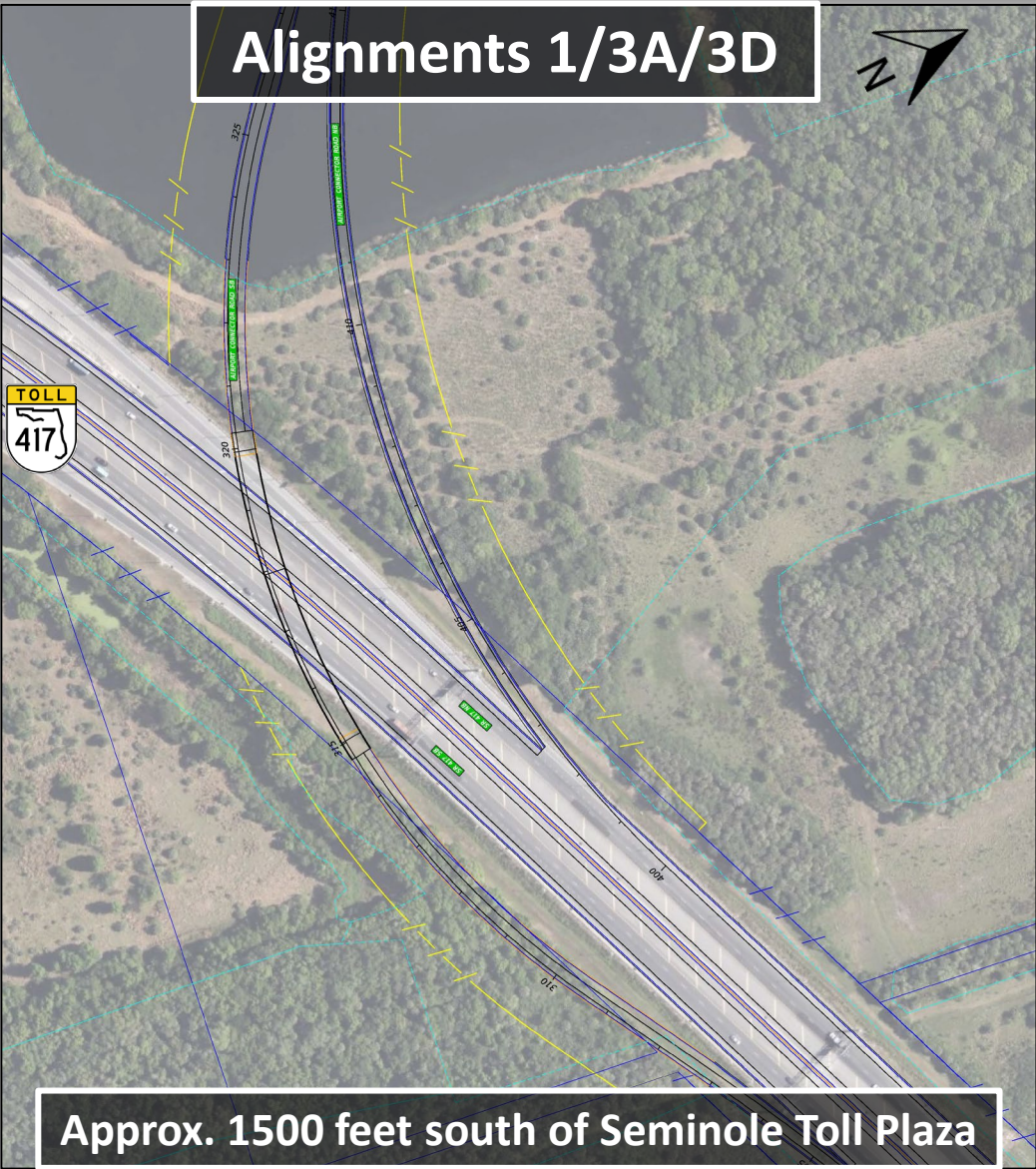
Proposed Interchange at East Lake Mary Blvd.



Preliminary Rendering

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

Proposed Interchange at SR 417

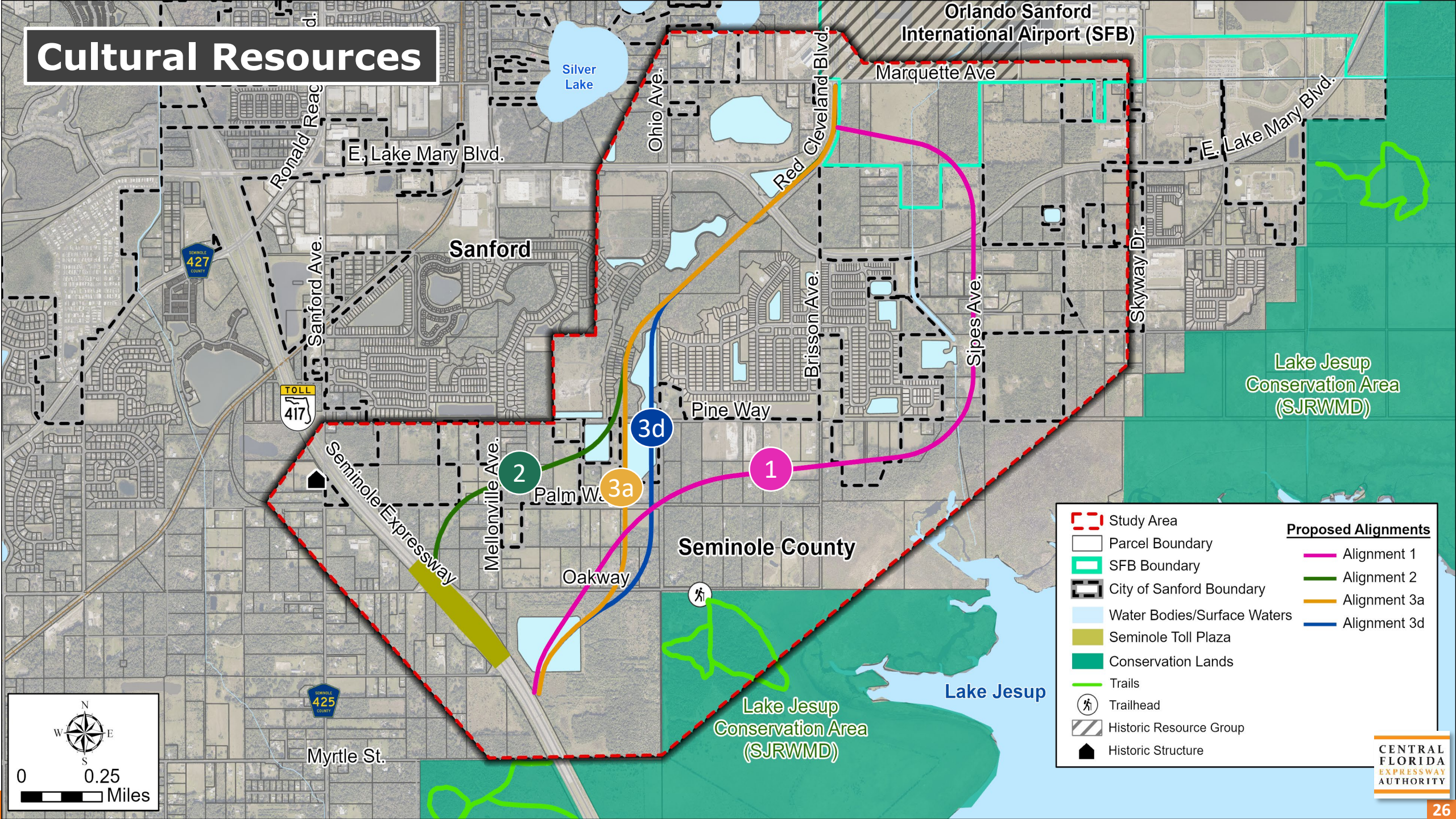


Mobility Considerations

- Regional Coordination
 - Airport Master Plan
 - LYNX
 - SunRail
- Seminole County Trails Master Plan
- Intermodal Connections
 - Park and Rides
- Consistent with CFX Master Plan



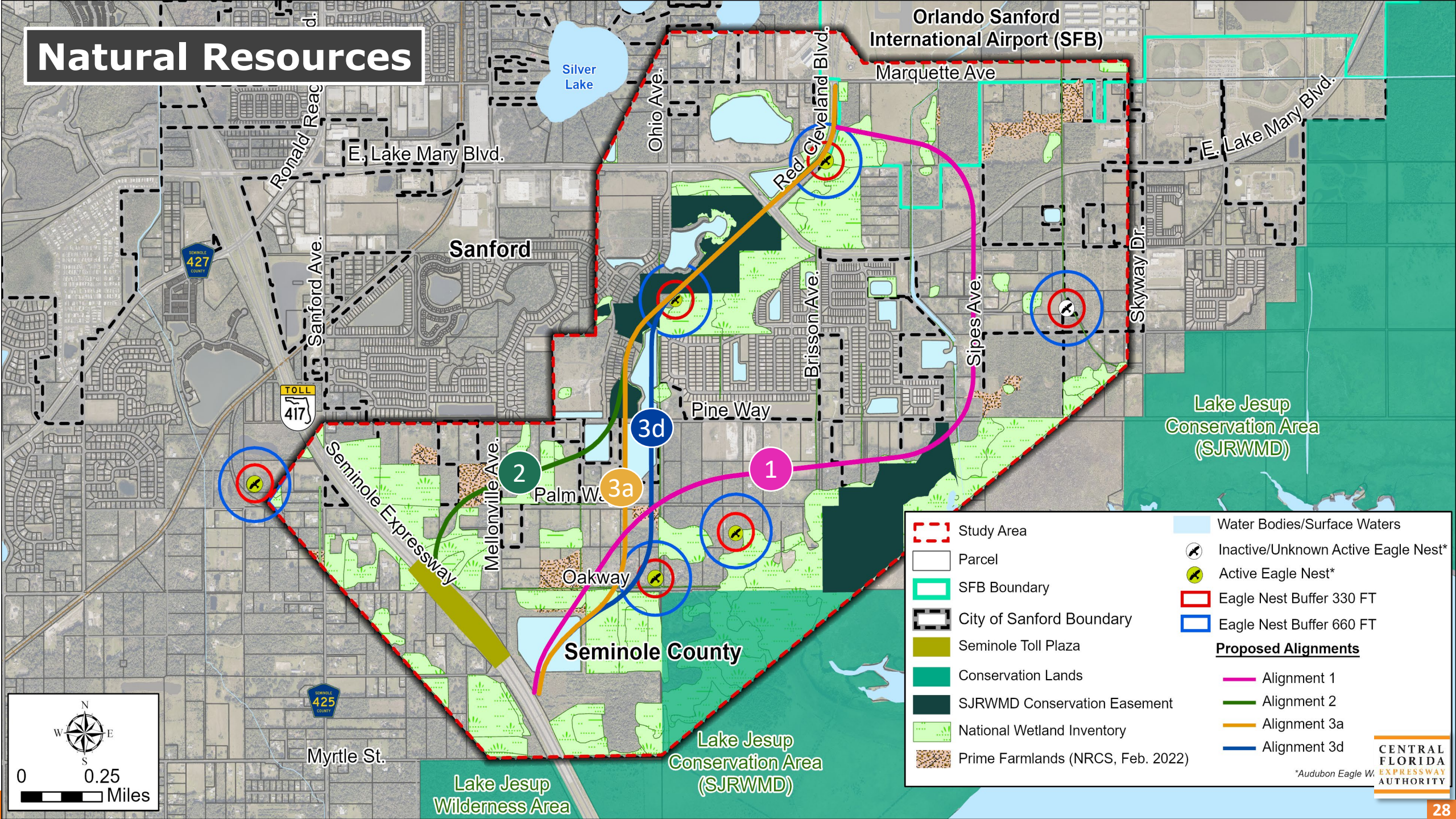
Cultural Resources



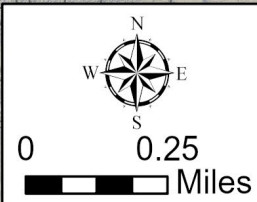
Sociocultural Resources

- Airport Runway Protection Zone impacted by Alignment 1
- Existing/Permitted Residential Parcels Impacted: **5 to 31**
- Existing/Permitted Non-Residential Parcels Impacted: **10 to 17**
- Community Cohesion Effects: Low-High
- Socio-Economic Impacts to Special Populations: **Low**
- No NRHP-eligible cultural resources affected
 - Two historic resources along Alignment 1

Natural Resources



	Study Area		Water Bodies/Surface Waters
	Parcel		Inactive/Unknown Active Eagle Nest*
	SFB Boundary		Active Eagle Nest*
	City of Sanford Boundary		Eagle Nest Buffer 330 FT
	Seminole Toll Plaza		Eagle Nest Buffer 660 FT
	Conservation Lands	Proposed Alignments	
	SJRWMD Conservation Easement		Alignment 1
	National Wetland Inventory		Alignment 2
	Prime Farmlands (NRCS, Feb. 2022)		Alignment 3a
			Alignment 3d

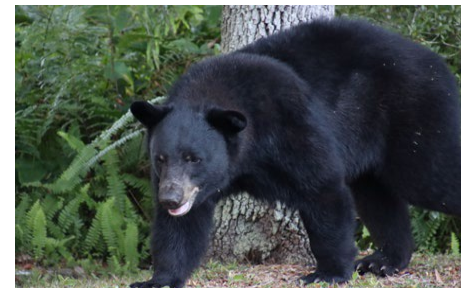


*Audubon Eagle W.

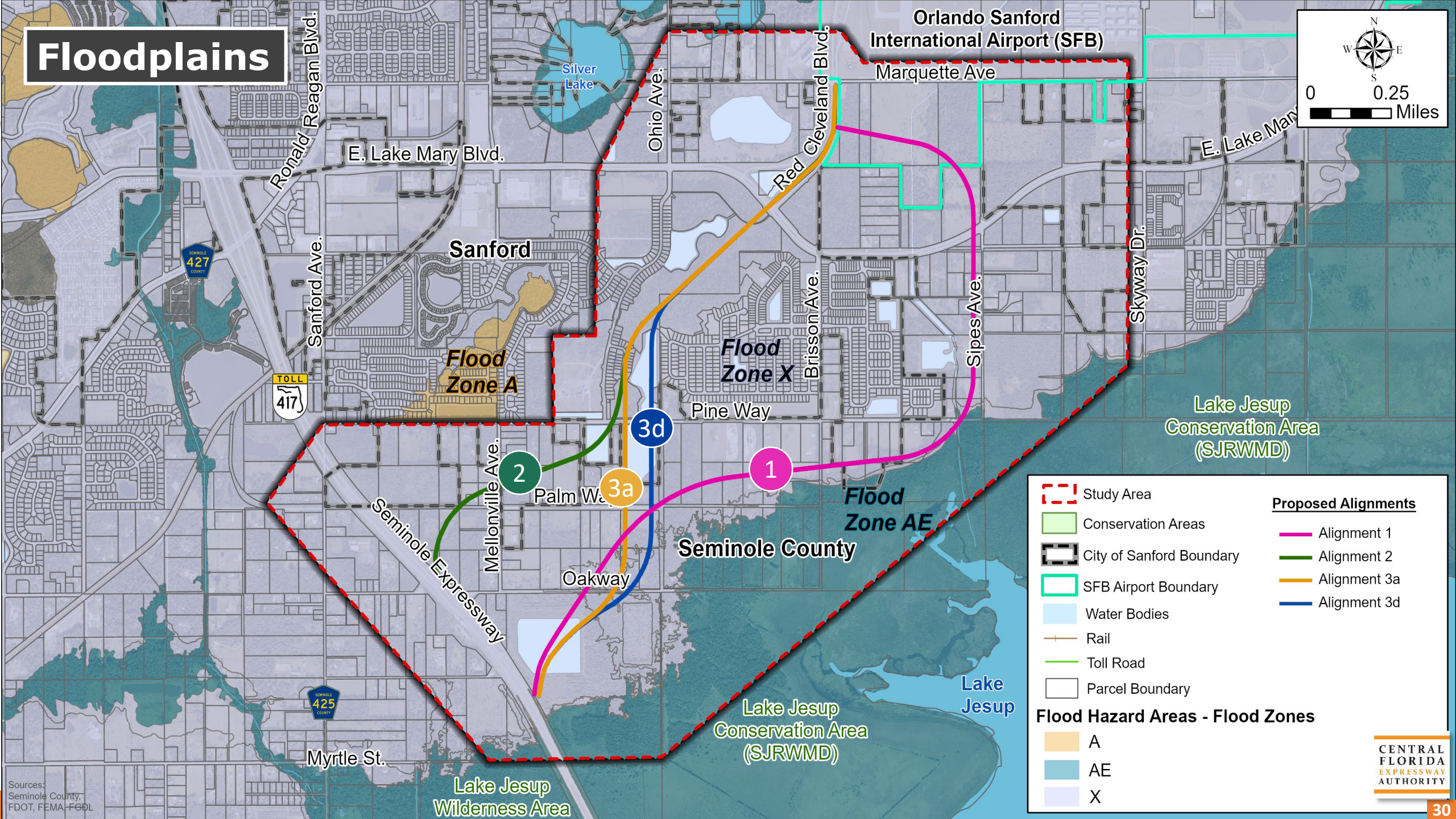
Species Involvement

Protected Species & Habitat

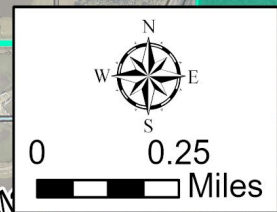
- Consultation Areas: Florida scrub-jay, Everglade snail kite, crested caracara, and manatee (Lake Jesup).
- Florida Wildlife Corridor: No Impacts
- Potential Species Involvement (medium/high occurrence):
 - Eastern indigo snake
 - Florida sandhill crane
 - Little blue heron
 - Bald eagle (up to three nests)
 - Florida black bear
 - Gopher tortoise
 - Roseate spoonbill
 - Short-tailed snake
 - Florida burrowing owl
 - Tricolored heron
 - Southeastern American kestrel
 - Wood stork
 - Everglade snail kite



Floodplains



Mitigation Opportunities



Evaluation Matrix (1 of 2)

Evaluation Criteria	Unit of Measure	Alternatives			
		1	2	3a	3d
Design					
Alternative Length	Miles	3.1	2.4	2.5	2.5
Right-of-Way Width	Feet	150	150	150	150-200
Projected 2050 Traffic Volume	Daily Vehicles	18,400	24,800	24,800	24,800
Social					
Right-of-Way Area Needed (not including proposed ponds)	Total Acres	62	42	50	58
Potential Permitted Development Impacts	Acres	0	5	6	11
Potential Residential Parcels Affected	Total Parcels	26	31	23	5
Existing	Parcels	26	13	5	5
Planned	Parcels	0	18	18	0
Potential Non-Residential Parcels Affected	Total Parcels	17	10	13	11
Existing	Parcels	17	2	5	5
Planned	Parcels	0	8	8	6
Community Facilities	No. of Conflicts	1 ^a	0	0	0
Parks and Recreational Facilities (public and private)	No. of Conflicts	0	0	0	0
Trails	No. of Conflicts	0	0	0	0
Community Cohesion Effects	High/Med/Low	High	High	Med	Low
Socio-Economic Impacts to Special Populations	High/Med/Low	Low	Low	Low	Low
Prime Farmland	Acres	2	3	< 1	1
Cultural Environment					
Proximity to Public Recreation Lands and Wildlife Management Areas ^d	Feet	0	2500	400	400
Public Recreation Lands and Wildlife Management Areas Impacted	Y/N	N	N	N	N
Potential Known Historic Resources	No. of Resources	1 ^b	0	0	0
Potential Known Historic Linear Resources (Canals/Highways/Railroads)	No. of Resources	1 ^c	0	0	0
Potential Known Archaeological Resources	No. of Resources	0	0	0	0

Evaluation Matrix (2 of 2)

Evaluation Criteria	Unit of Measure	Alternatives			
		1	2	3a	3d
Natural Environment					
Potential Conservation Easement Impacts (SJRWMD)	Acres	2	14	14	10
Potential Surface Water Impacts	Total Acres	7	3	13	18
<i>Natural Lakes</i>	Acres	0	0	0	0
<i>Stormwater Management Areas</i>	Acres	0	3	3	8
<i>Other Reservoirs</i>	Acres	7	0	10	10
<i>Canals/Creeks</i>	No. of Conflicts	2	0	0	0
Flood Hazard Area Impacts (100 Year Floodplain)	Acres	2	0	2	2
Wetlands	Total Acres	7	19	17	16
<i>Forested</i>	Acres	4	16	16	15
<i>Non-forested</i>	Acres	3	3	1	1
Potential Habitat - Federal Listed Species	Acres	47	34	37	59
Potential Habitat - State-Listed Species	Acres	40	32	27	59
Potential Bald Eagle Nest	No. of Conflicts	1	2	3	3
Potential Species Impacts (composite rating)	High/Med/Low	Medium ^g	Medium ^g	Medium ^g	Medium ^g
Mitigation Banks	Acres	0	0	0	0
Florida Forever Lands	Acres	0	0	0	0
Florida Wildlife Corridors	Acres	0	0	0	0
Physical					
Major Utility Conflicts - Existing ^h	No. of Conflicts	7	2	3	1
Contamination Sites & Facilities (Medium and High Risk Sites)	No. of Conflicts	0	0	0	0
Railroad Involvement	No. of Conflicts	0	0	0	0

Public Involvement Opportunities

Public Meeting

Tuesday, June 20, 2023

5:30 to 7:30 p.m.

Millennium Middle School

Shortened study website address:

<http://bit.ly/SR417AirportConnector>

CFX Web Address:

www.CFXway.com



Shemir Wiles

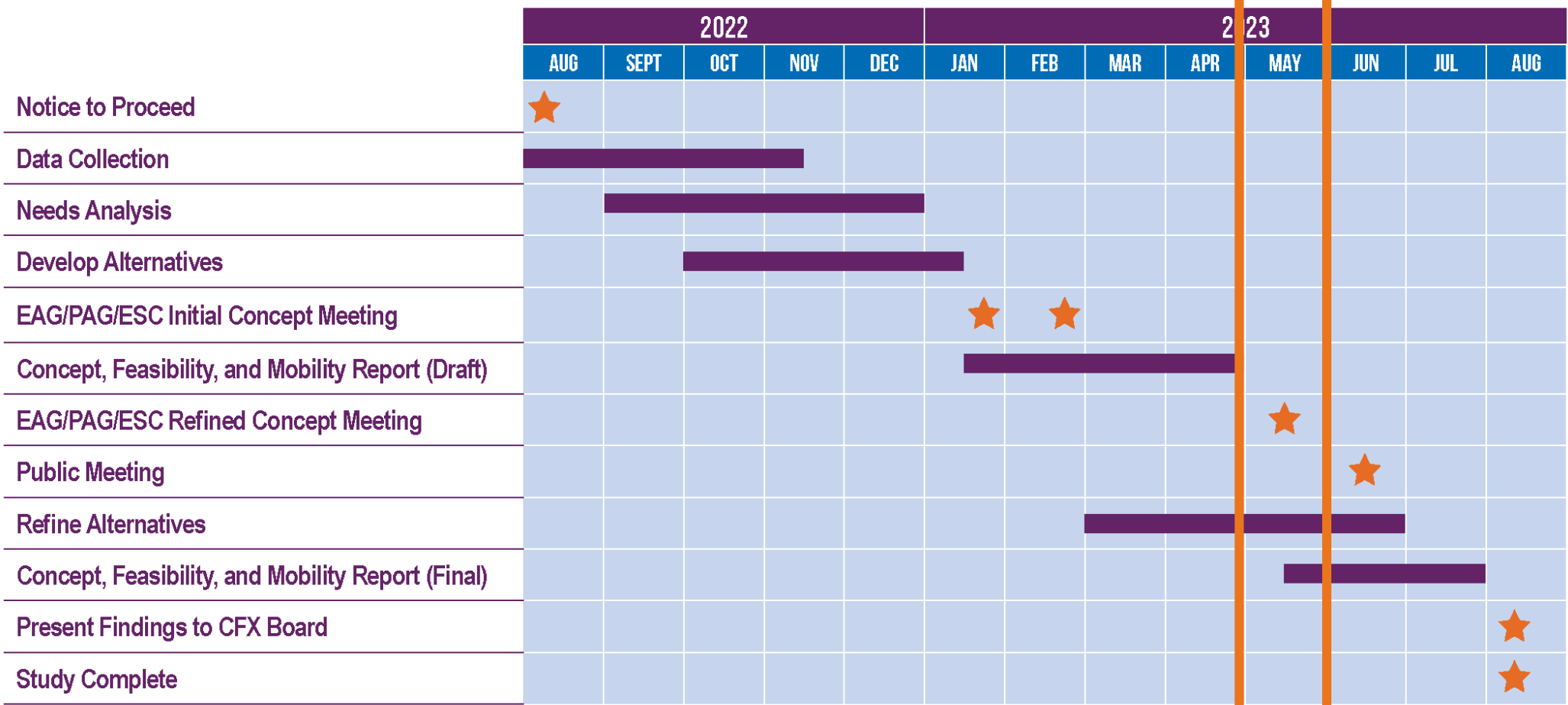
Public Involvement Coordinator

407-802-3210

ConceptStudies@CFXway.com

CF&M Schedule

(Subject to Change)



Project Contact

Project Manager

Jonathan Williamson, AICP

321-354-9614

jwilliamson@Dewberry.com

Consultant Project Manager

Sunserea Gates, P.E.

407-965-5844

sgates@vhb.com

Public Involvement Coordinator

Shemir Wiles

407-802-3210

ConceptStudies@CFXway.com



CENTRAL
FLORIDA
EXPRESSWAY
AUTHORITY

THANK YOU!