



SR 5 / US 1 at Aviation Boulevard

Project Development and Environment (PD&E) Study

Indian River County, Florida

Financial Project ID: 441693-1-22-02

Efficient Transportation Decision Making (ETDM) Number: 14475

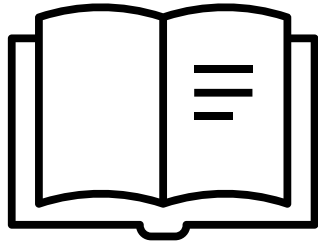
Florida Department of Transportation

Public Hearing Project Presentation

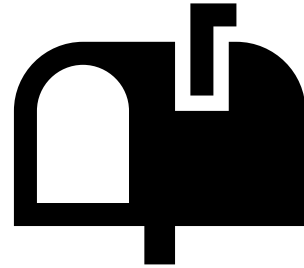
Tuesday, June 18, 2024 (Online)

Thursday, June 20, 2024 (In-Person)

Public Notice



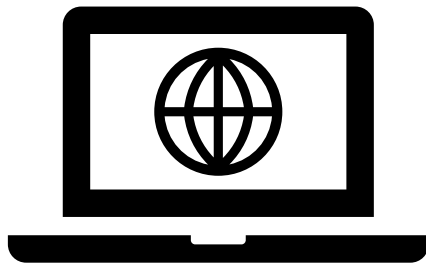
Florida Administrative Register



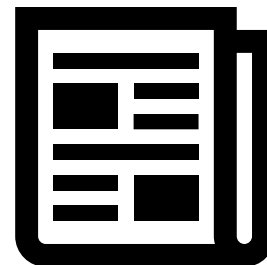
Property owner/tenant letters



Email to project contacts list



Department/project webpage



Newspapers




Social media


Non-Discrimination Policy


Title VI Compliance

Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability, or family status. Persons wishing to express concerns relative to FDOT compliance with Title VI may do so by contacting:

Sharon Singh Hagyan
District Four Title VI Coordinator


 3400 West Commercial Boulevard Fort
Lauderdale, FL 33309


 (954) 777-4190


 (866) 336-8435, ext. 4190 (Toll Free)

 Sharon.SinghHagyan@dot.state.fl.us

Stefan Kulakowski
State Title VI Coordinator

 605 Suwanee Street, MS 65
Tallahassee, FL 32399

 (850) 414-4742

 (866) 374-3368, Ext 4742 (Toll Free)

 Stefan.Kulakowski@dot.state.fl.us

Federal-State Partnership

The environmental review, consultation and other actions required by applicable federal environmental laws for these projects are being, or have been, carried out by the FDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration and FDOT.

Laws and Regulations

- **The public hearing is being held in accordance with the following:**
 - **Section 120.525, F.S.** – Meetings, hearings, and workshops
 - **Section 286.011, F.S.** – Government in the Sunshine Law
 - **Section 335.199, F.S.** – Transportation projects modifying access to adjacent property
 - **Section 339.155, F.S.** – Transportation planning
 - **Americans with Disabilities Act of 1990 (ADA)**
 - **Title VI of the Civil Rights Act of 1964 and Other Nondiscrimination Laws**
 - **49 CFR Part 24**, Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally-Assisted Programs
 - **40 CFR Part 1506**, Other Requirements of **National Environmental Policy Act (NEPA) of 1969**

Transportation Development Process

1 PLANNING

2 PROJECT DEVELOPMENT
AND ENVIRONMENT
(PD&E) STUDY

3 DESIGN

4 RIGHT OF WAY
ACQUISITION
(IF NEEDED)

5 CONSTRUCTION

6 MAINTENANCE

Why is a PD&E Study performed?

- To determine the best alternative to address the purpose and need
- To evaluate the potential environmental and social effects
- To include public participation to help shape the project
- To comply with federal, state, and local laws

During the PD&E Study:

- The community will have several opportunities for input on the project
- Project effects to the environment will be avoided, minimized, and/or mitigated
- Coordination with federal, state and local agencies will occur
- Project reports and plans will be available for public viewing

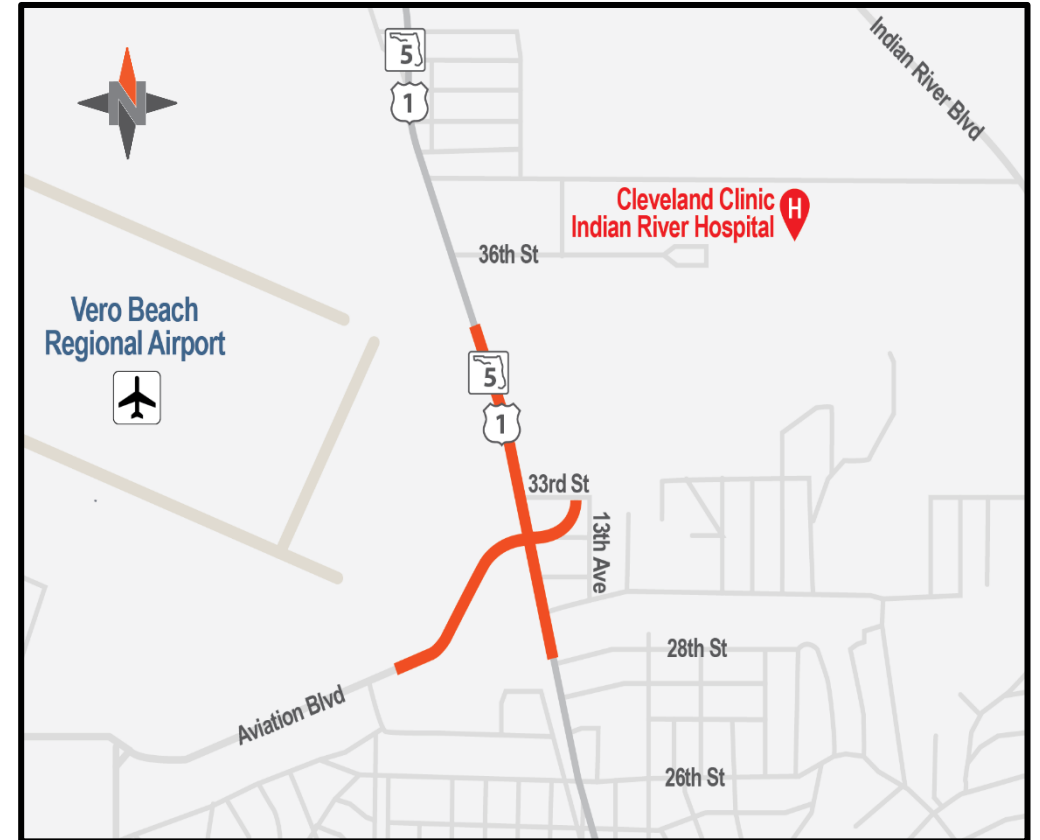
Project Location

■ Project Location:

- Within the City of Vero Beach and Indian River County

■ Project Limits:

- US 1 from 28th Street to 1300 feet north of Aviation Boulevard
- Aviation Boulevard from 750 feet west of Airport N. Drive to 33rd Street



Project Location Map

Planning Consistency

Transportation Improvement Program (TIP) Funds

Indian River MPO Transportation Improvement Program - FY 2023/24 - 2027/28

Roadway Capacity Projects

- Included in the 2045 Long Range Transportation Plan
- Design phase is funded
 - \$1,803,603 PE funds
- Right of way and construction phases are not funded

		4416931				Non-SIS	
Work Summary:		PD&E/EMO STUDY		From:			
				To:			
Lead Agency:		FDOT		Length: 0.010 miles			
County:		Indian River		LRTP #: Table 4-8			
Phase	Fund Source	2023/24	2024/25	2025/26	2026/27	2027/28	Total
PE	DIH	0	200,400	0	0	0	200,400
PE	DDR	0	764,898	700,000	0	0	1,464,898
PE	SL	0	138,305	0	0	0	138,305
Total		0	1,103,603	700,000	0	0	1,803,603

Purpose and Need

The purpose of this project is to evaluate intersection improvements at SR 5/US 1 and Aviation Boulevard to:

- Improve safety;
- Address existing and projected traffic demand; and
- Enhance the multi-modal features for the pedestrian, bicycle and transit users.

The need for the project:

- Existing intersection operates at the maximum capacity;
- Existing vehicle delays exceed 1.5 minutes per vehicle during peak traffic hours;
- Forecasted vehicle delays will reach 3.5 minutes per vehicle by year 2045 without improvements;
- The existing project area needs pedestrian and bicycle improvements; and
- Aviation Boulevard improvements are needed to serve regional mobility and airport needs.

Daily Traffic Volumes, Growth and Comparison

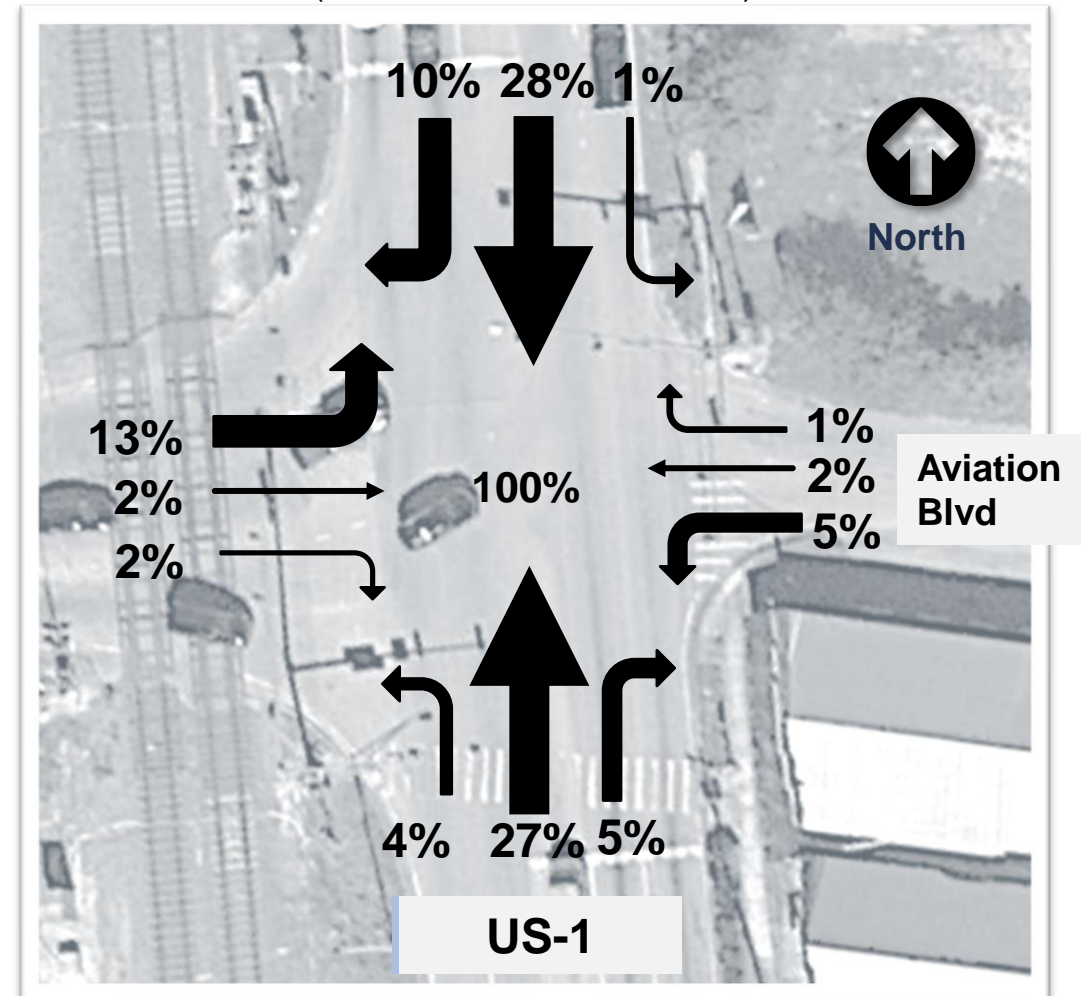
Daily Traffic Volume

	Year 2021	Year 2045	Total Growth
SR 5 US 1	34,200	55,000	61%
Aviation Boulevard	12,000	19,300	61%

Traffic volumes will grow 61% and the Level of Service (LOS) will drop below the target LOS D.

Traffic Movement Volume Comparison

(Year 2045 AM Peak Hour)



Summary of Public Outreach and Agency Coordination

18 Local Government and Agency Meetings

- 5 Alternatives development meetings
 - MPO planners
 - City of Vero Beach Public Works
 - Indian River County Public Works
- 5 MPO Board, TAC and CAC presentations
- 3 Federal Aviation Administration and Vero Beach Airport meetings
- 2 IR Farms Water Control District meetings
- 3 Florida East Coast Railroad meetings

Local Property Owner Coordination Meetings

- 2 Camp Haven Rehabilitation Center meetings

Public Meetings:

- Public Kickoff meeting October 2022
- City of Vero Beach Public Meeting February 2023
- Alternatives Public Workshop October 2023

■ Summary of Alternatives Public Workshop

- Held October 2023
- Four build alternatives were presented
- 60 people attended
- Written comments supported Alternatives 1, 2 and 8.

■ City of Vero Beach Support

- City Council Meeting March 12, 2024
- Passed Resolution 2024-07 supporting Alternative 1 conventional intersection



Alternatives Considered and Evaluated

Alternatives Considered

- **Alternative 1 – Conventional Intersection**
- **Alternative 2 – One-Way Pair**
- Alternative 3 – US 1 Overpass
- Alternative 4 – Aviation Blvd Overpass
- Alternative 5 – Aviation Blvd Underpass
- Alternative 6 – Aviation Blvd Overpass, rail crossing
- **Alternative 7 – Displaced Left Turn**
- **Alternative 8 – Median U-Turn with Roundabout**

Alternatives Evaluation Process

A multi-discipline screening analysis was conducted to determine the best alternatives to advance into the detailed analysis phase. Factors considered include:

- Ability to meet the project’s purpose and need
- Mobility for pedestrians and bicyclists
- Property impacts and access
- Environmental impacts
- Construction cost and complexity
- Compatibility with the county’s extension project
- FAA aviation regulations and railroad requirements

Alternatives 1, 2, 7, and 8 advanced into detailed evaluation.

Alternatives Comparison

Comparison Element	No Build or No Action Alternatives	Alternative 1 Conventional	Alternative 2 One-Way Pair	Alternative 7 Displaced Left Turn	Alternative 8 Median U-Turn & Roundabout
Meets Purpose and Need	No	Yes	Yes	Yes	Yes
Safety: Reduction in Crashes	No	72%	72%	64%	80%
Level of Service Year 2045	LOS F (AM/PM)	LOS D (AM/PM)	LOS D (AM/PM)	LOS D (AM) LOS C (PM)	LOS D (AM) LOS C (PM)
Mobility: Transit, Bicycle, Pedestrian	No bicycle lanes. No improvement for pedestrians or transit access.	Shared use path for bicyclists and pedestrians. Bus bay provided for transit.	Shared use path for bicyclists and pedestrians. No bus bay provided southbound.	Shared use path for bicyclists and pedestrians. Does not provide for transit stops on southbound US 1.	Shared use path for bicyclist and pedestrians. Bus bay provided for transit.
Environment	No stormwater treatment	Stormwater quality improvements	Stormwater quality improvements	Stormwater quality improvements	Stormwater quality improvements
Right of Way Impacts	None	27 parcels <u>Relocations:</u> 4 Business (0) Residential	42 parcels <u>Relocations:</u> 4 Business 2 Residential	29 parcels <u>Relocations:</u> 5 Business 2 Residential	35 parcels <u>Relocations:</u> 5 Business 6 Residential
Total Cost (Engineering, R/W, Construction)	Maintenance cost only	\$37,569,000	\$39,832,000	\$39,810,000	\$45,776,000

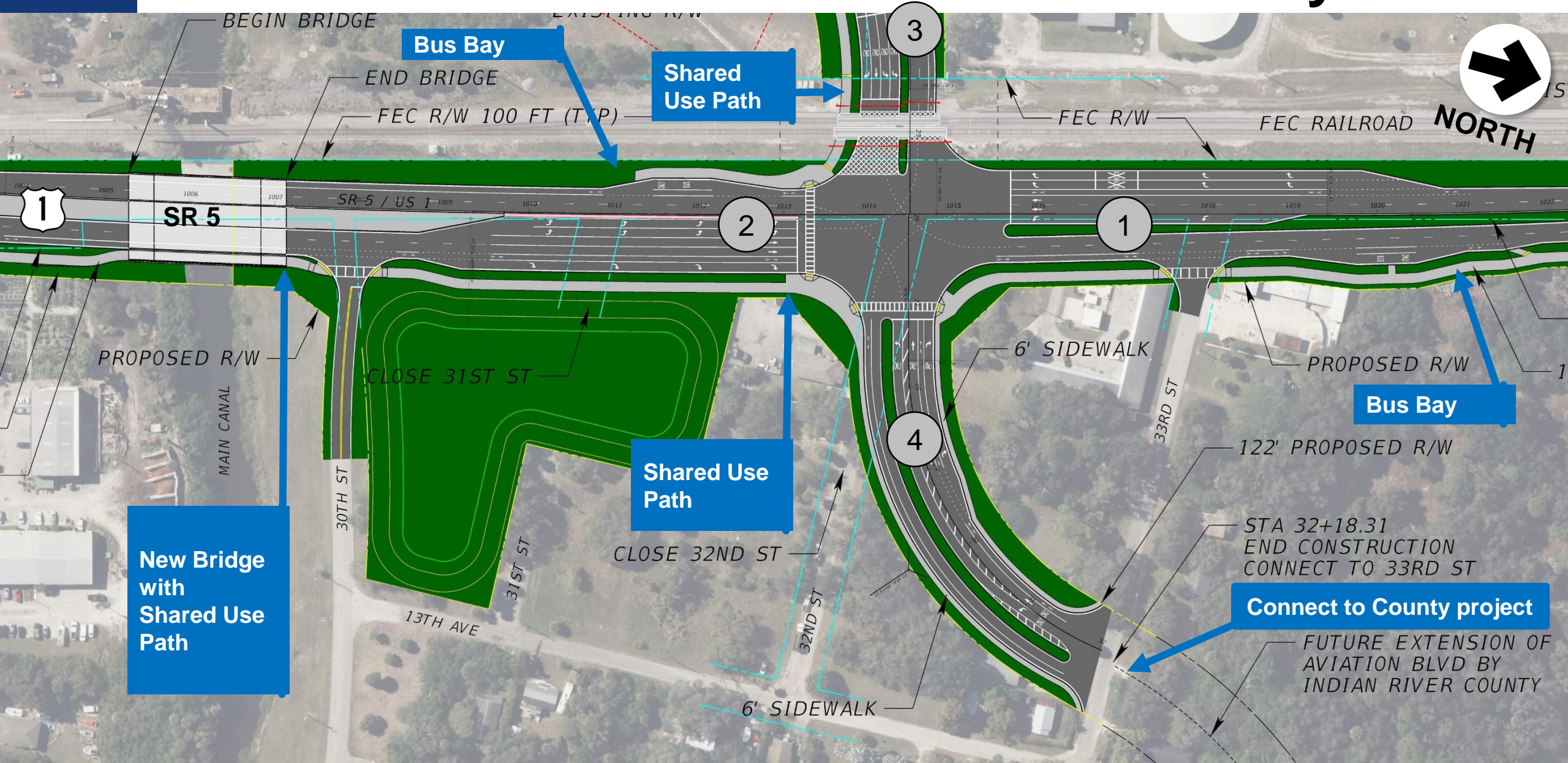
Preferred Alternative: Alternative 1 Conventional Intersection

Based on the comprehensive evaluation, public input, and coordination with the city, county, airport and agencies, Alternative 1 is the Preferred Alternative that benefits the community, enhances safety, provides multi-modal improvements, and meets future traffic needs.

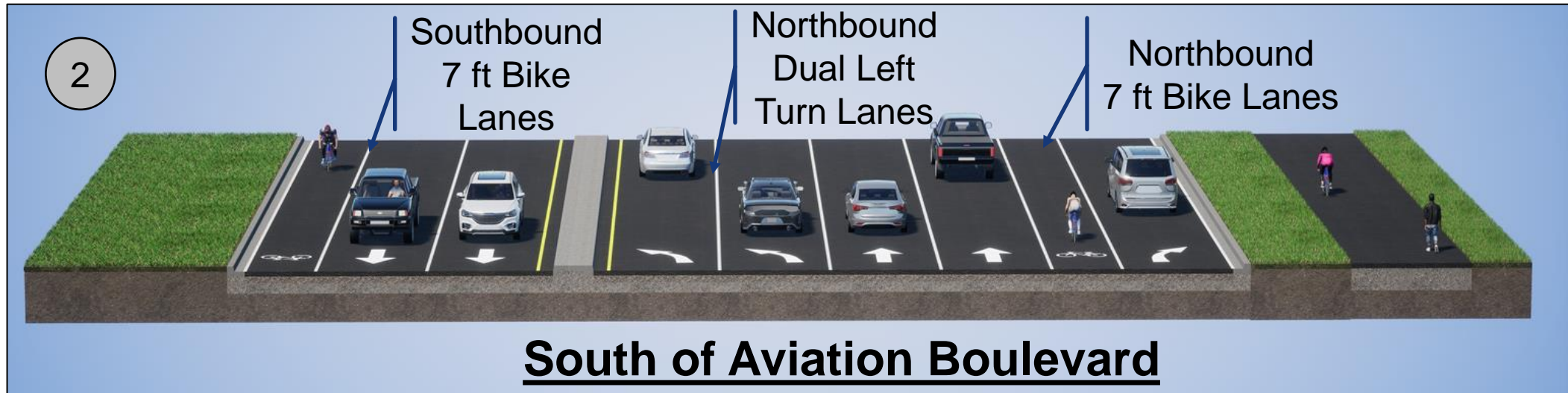
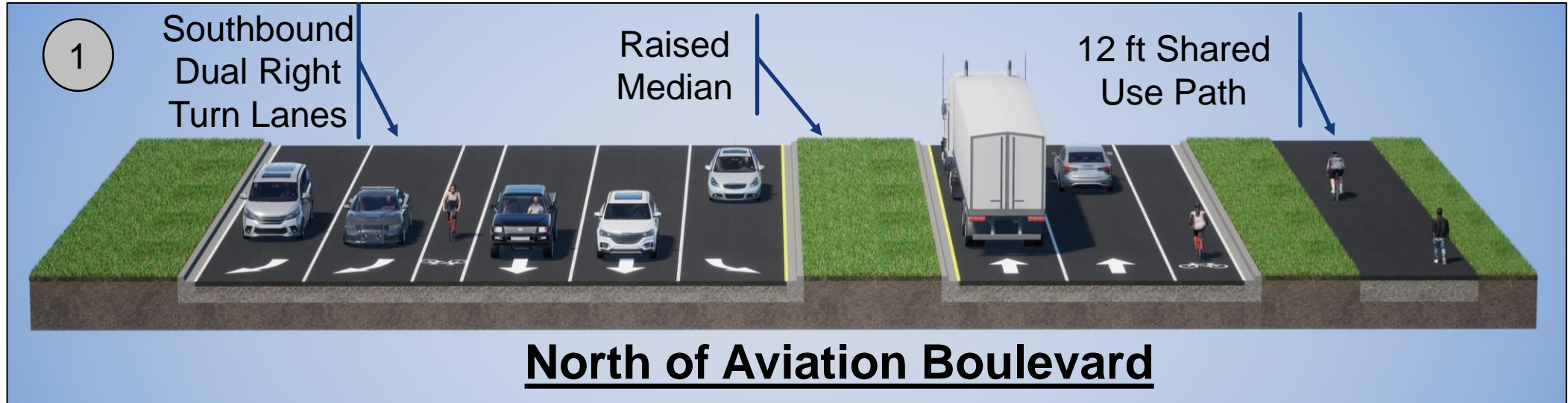
Project reconstructs US 1 and Aviation Boulevard with a new roadway with a raised median, pathways, drainage, signage and street lighting.

- Raised 22 ft median on US 1
- 12 ft shared use path on US 1
- 7 ft buffered bicycle lanes
- 2 bus bays on US 1
- Replacement of the Main Canal bridge
- Stormwater retention area
- Shared use path and/or sidewalk with bicycle lanes on Aviation Boulevard

Preferred Alternative: Intersection Layout

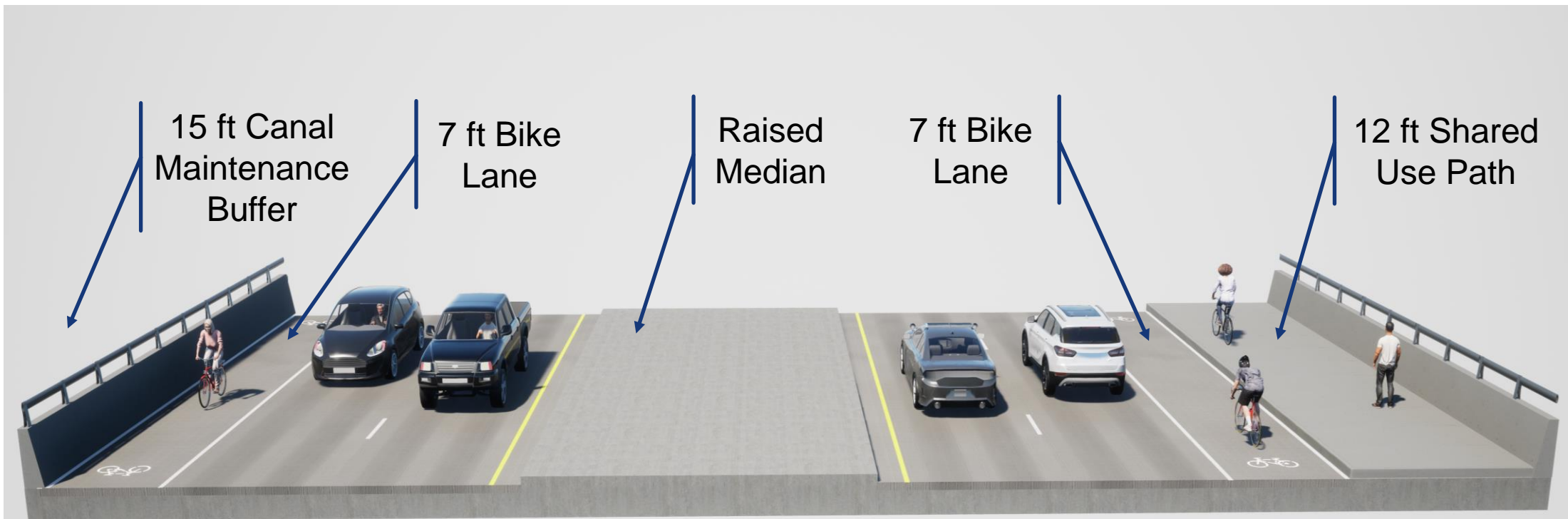


Preferred Alternative: US 1 Typical Section



New Access Management Classification – Class 5

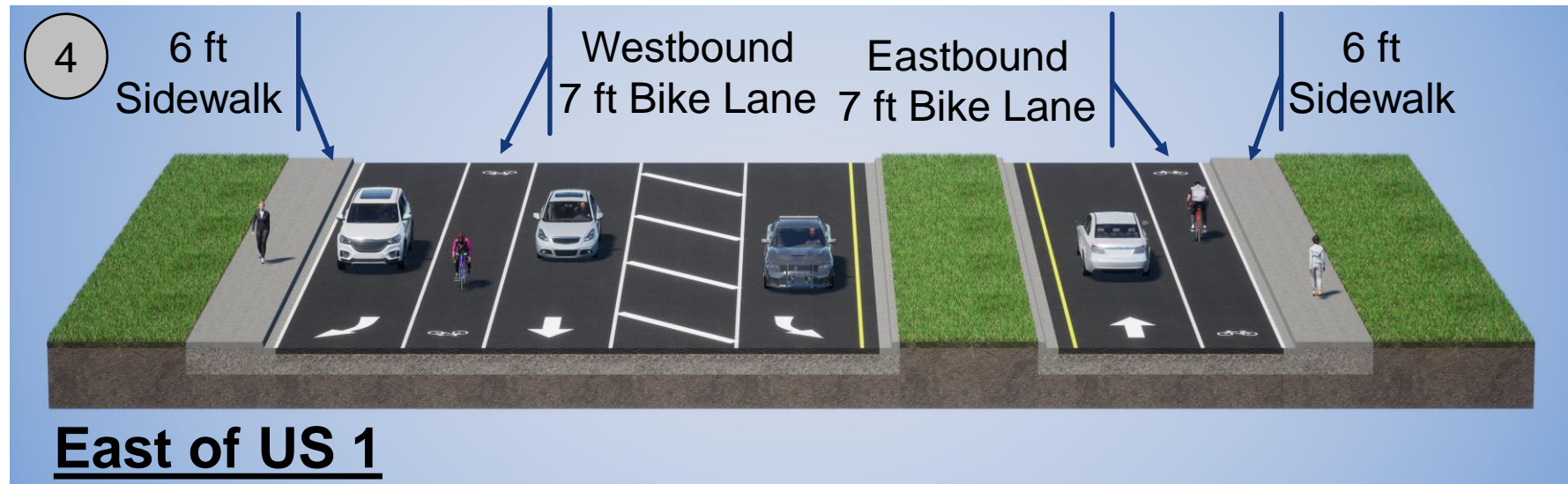
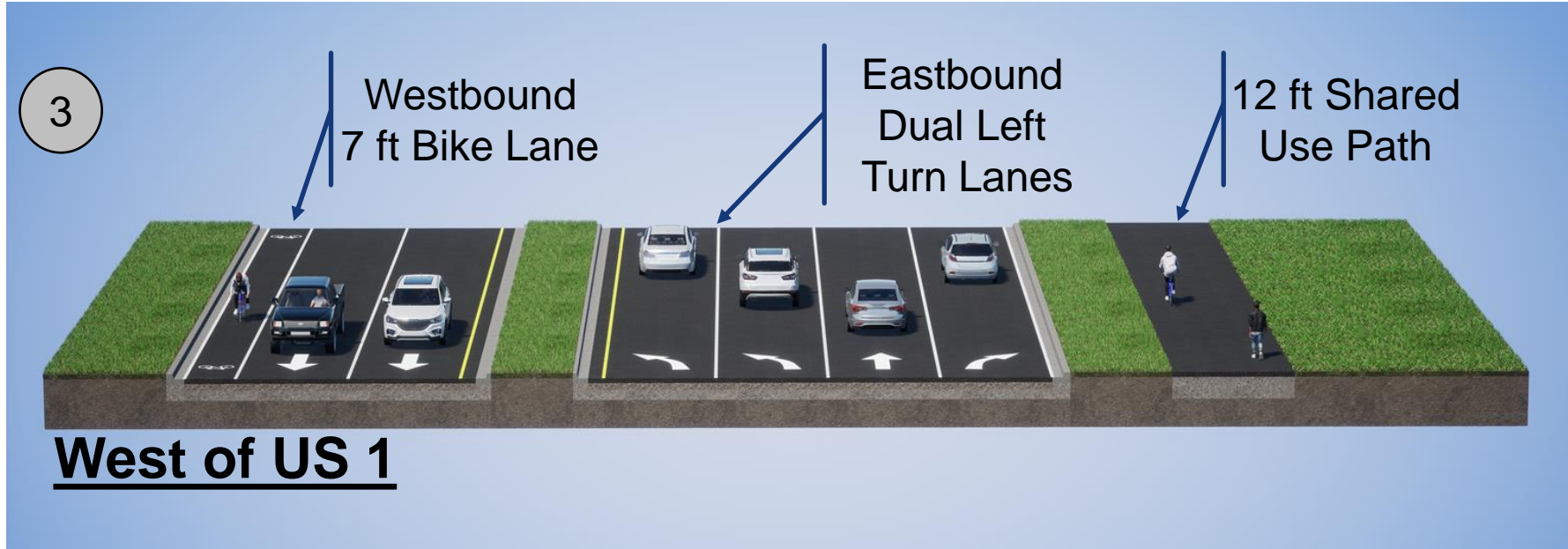
Preferred Alternative: US 1 Main Canal Bridge



- **New bridge**

- Maintenance buffer between bridge and railroad improves safety
- Includes both on-street bicycle lanes and a shared use path

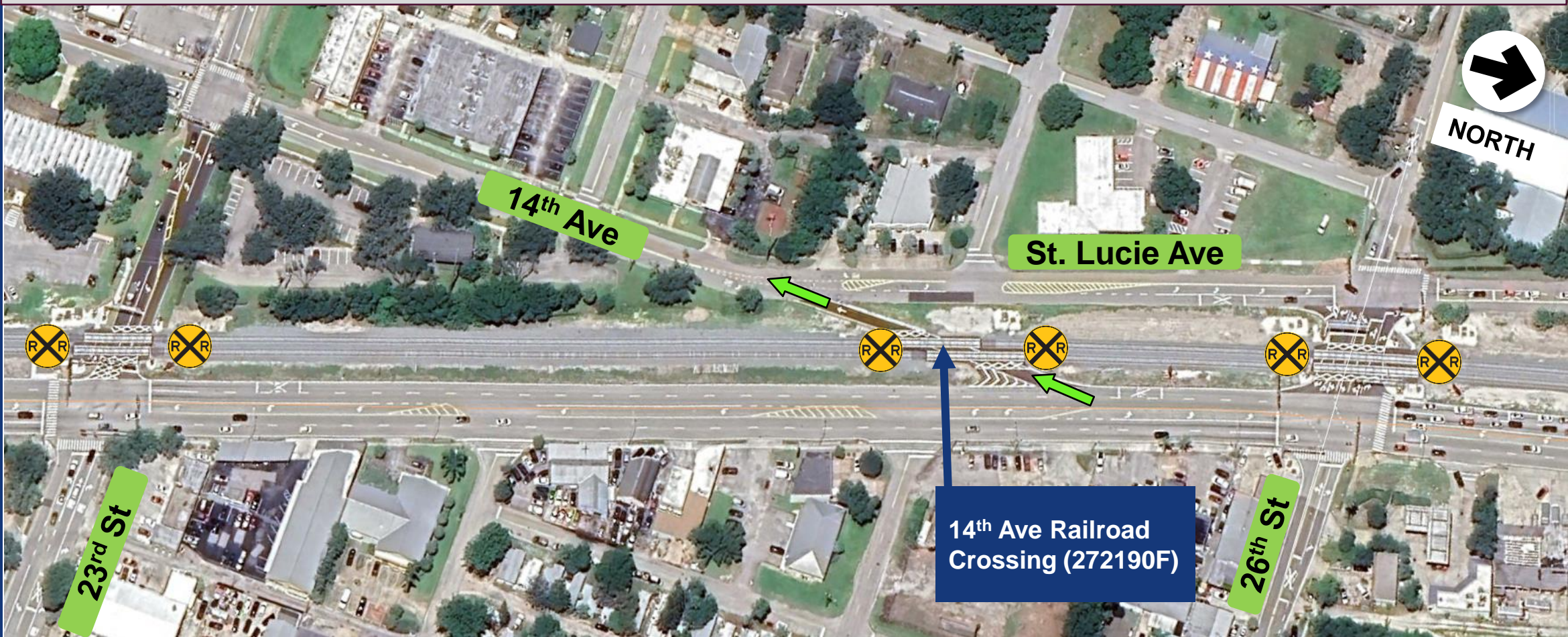
Preferred Alternative: Aviation Boulevard Typical Sections



14th Avenue Railroad Crossing (272190F)

14th Avenue crossing being evaluated for closure

- Existing crossing is a single southbound lane across the tracks.
- Being considered as a railroad safety measure to reduce train collisions with motorists, bikes and pedestrians.
- Coordination with the public, City of Vero Beach, and FEC RR will continue.



Environmental Summary

Section 4(f)

- No use or impacts to the Micheal Field baseball complex

Natural

- Not likely to negatively impact threatened or endangered species
- No wetland impacts
- No adverse modification of manatee critical habitat

Traffic Noise

- One isolated residence was predicted to have noise levels above the criteria for noise abatement or walls.
- The residence did not qualify for noise walls or abatement measures.

Contamination

- There are four medium risk site in the project area and no high risk sites were identified.



No impact to Michael Field Complex



No adverse impact to manatee habitat

Environmental Summary

Historic Resources

- Section 106 review
- 37 historic resources evaluated
- Two sites are eligible for the National Register of Historic Places
 - Packing House at 2745 St. Lucie Avenue
 - FEC Railroad
- No adverse effects to National Register eligible resources

Archeological Resources

- 57 shovel test sites
- 30 shovel test sites were performed within the Vero Man Local Historic Site/Archeological Zone
- No archeological evidence identified

State Historic Preservation Officer concurred with the findings on May 21, 2024.



1920's Homes

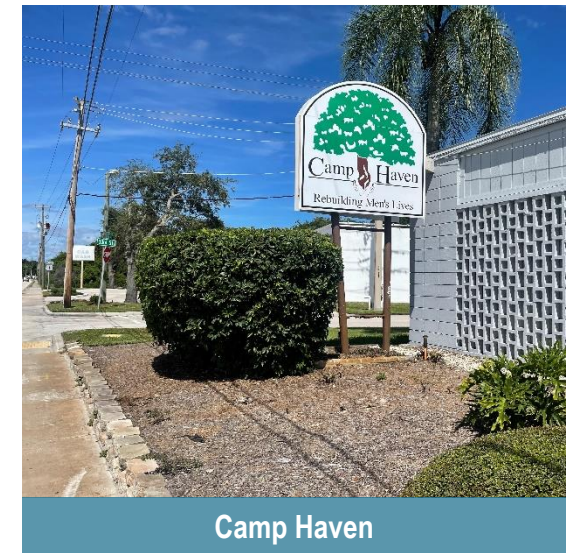


Vero Man Archeological Zone

Environmental Summary

■ Right of Way

- 27 Properties impacted
 - 4 business relocations
 - No residential relocations
 - Relocations of businesses and/or tenants is anticipated
- Public had several opportunities to review project documents and right of way impacts
- All Right of Way acquisition will be conducted in accordance with Florida Statute 339.09 and 421.55 and also the federal Uniform Relocation Assistance and Real Property Acquisition Policy Act of 1970.



Camp Haven



Vero Express Car Wash

Right of Way Information

Right of Way assistance information

- FDOT Right of Way representatives are available at the Virtual Public Hearing June 18th, 2024, and In-person Public Hearing June 20th, 2024.

Publications available

- <https://www.fdot.gov/rightofway/documents.shtm>
- FDOT Acquisition Process pamphlet
- Relocation Assistance: Businesses, Farms, and Non-profit Organizations brochure

For more information, please contact:

Dan Marwood
Deputy Right of Way Manager
 Phone: (954) 777-4238
Dan.Marwood@dot.state.fl.us

ACQUISITION PROCESS

PROPERTY APPROVAL

PROPERTY REPRESENTATIVE & COMPENSATION

PROPERTY CONTACT INFORMATION

OFFER TO PURCHASE

NO.	PROPERTY ADDRESS	ACQUISITION DATE
1	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
2	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
3	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
4	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
5	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
6	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
7	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
8	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
9	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17
10	1000 W. UNIVERSITY BLVD, SUITE 1000, GAITHERSBURG, MD 20878	08/15/17

FDOT

RESIDENTIAL RELOCATION

UNDER THE FLORIDA RELOCATION ASSISTANCE PROGRAM

FLORIDA DEPARTMENT OF TRANSPORTATION
October 1, 2016

RELOCATION ASSISTANCE
BUSINESSES, FARMS, AND
NON-PROFIT ORGANIZATIONS

FDOT

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 HAYDON BURNS BUILDING
 605 SUWANNEE STREET
 TALLAHASSEE, FLORIDA 32399-0450

October 1, 2014

PD&E Study Schedule

ACTIVITY	2022									2023									2024																	
	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec				
Begin Study	★																																			
Public Kick-off Meeting						★																														
MPO Meetings								★								★	★						★	★												
Alternatives Public Workshop																		★																		
Public Hearing																										★										
Location and Design Concept Acceptance (LCDA)																															★					
PD&E Study Completed																															★					
Public Involvement	←																																			

- Design phase begins in 2025 (funded)
- Right of Way and Construction phases are not funded.

Public Display of Project Documents

Documents on Public Display until July 1

Indian River County Main Library
 1600 21st Street, Vero Beach, FL 32960

In-Person Public Hearing

June 20th, 2024 at 6:30 PM (In-Person)
 Vero Beach Community Center
 2266 14th Avenue, Vero Beach, FL 32960

Project Website

- <https://www.fdot.gov/projects/SR5AviationBlvdPDE>

Stay Informed!

Social Media

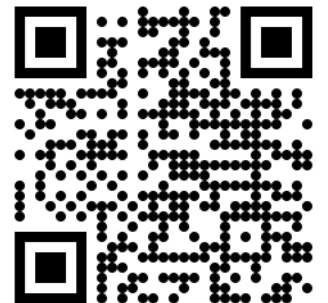


Facebook: MyFDOTSEFL

Instagram: myfdot_sefl

Twitter: @MyFDOT_SEFL

Use
 telephone
 camera to
 scan image



Public comments and questions are always welcome!

Submitting Comments and Questions

During the Virtual Public Hearing

- Type your comment/question in the GoTo control panel question box
- Verbally by using the Raise Hand feature on your control panel to be unmuted

At the In-Person Public Hearing

- Speak at the microphone
- Provide written comments on comment form

Anytime

- Online at project website
- By email to Project Manager
- By U.S. mail to Project Manager



Website

<https://www.fdot.gov/projects/SR5AviationBlvdPDE>

Project Manager Contact Information

Vandana Nagole, P.E.

FDOT District Four

3400 West Commercial Blvd

Fort Lauderdale, FL 33309

Email: Vandana.Nagole@dot.state.fl.us

Telephone: (954) 777- 4281

Safety Message

June is Safe Summer Travel Month!



Buckle up and arrive alive!