




SR 934 / NE 79 ST
PD&E STUDY



SR 934/NE 79 ST PD&E Study

West of Pelican Harbor Drive to East of Adventure Avenue

Miami-Dade County, FL

October 2, 2023 (Virtual)

October 5, 2023 (In-Person)

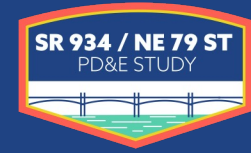
Bridge No. 870083;-549;-084;-550

FM No. 449007-1-22-01

ETDM No. 14484



Public Notice



Property owner/tenant letters



Emails to project contacts list



FDOT website



Florida Administrative Register

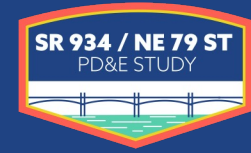


Newspaper



Social media

Title VI Non-Discrimination Compliance



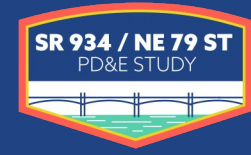
Public participation at this public meeting is encouraged and solicited without regard to race, color, national origin, age, sex, religion, disability, or family status.

Persons wishing to express any concerns about Title VI may do so by contacting either:

Florida Department of Transportation
District Six Office
District Six Interim Title VI Coordinator
Tish Burgher
1000 NW 111th Avenue
Miami, Florida 33172
Tish.Burgher@dot.state.fl.us
(305) 470-5277

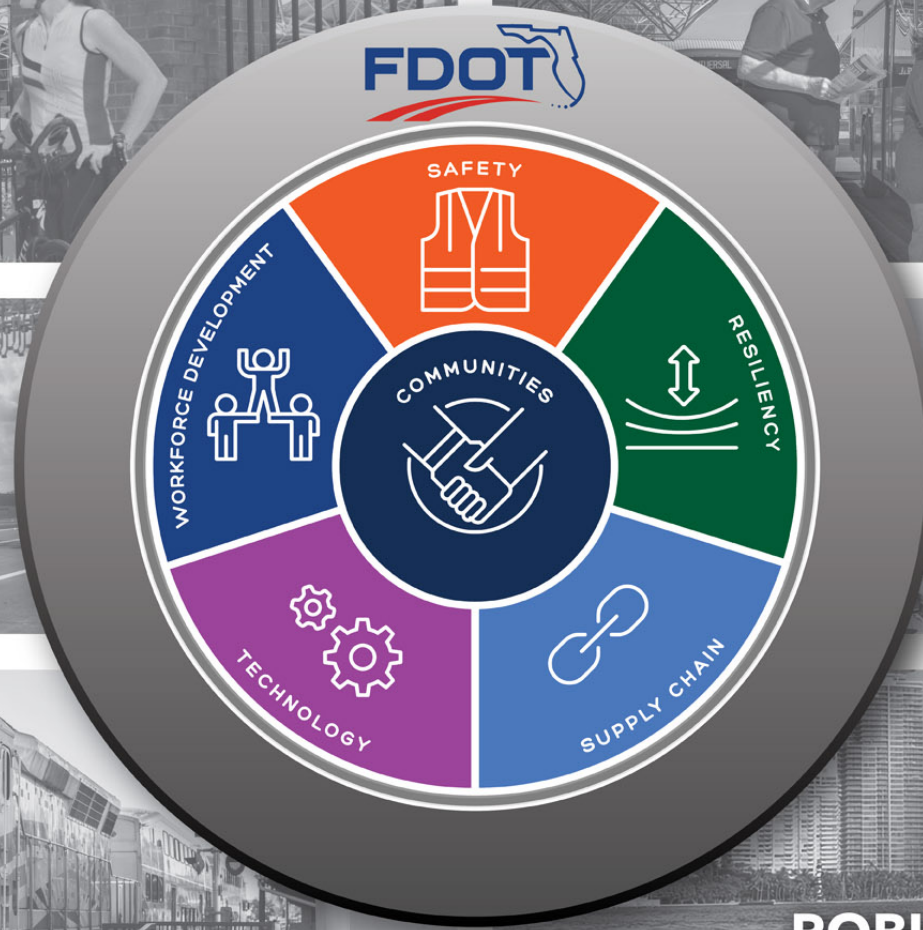
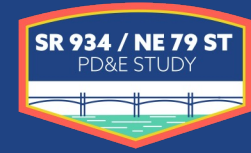
Florida Department of Transportation
Tallahassee Office
State Title VI Coordinator
Stefan Kulakowski
605 Suwannee Street
Tallahassee, Florida 32399
Stefan.Kulakowski@dot.state.fl.us
(850) 414-4742

NEPA Assignment Statement

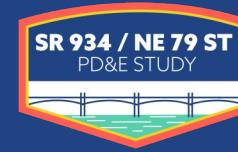


The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022, and executed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

FDOT Compass



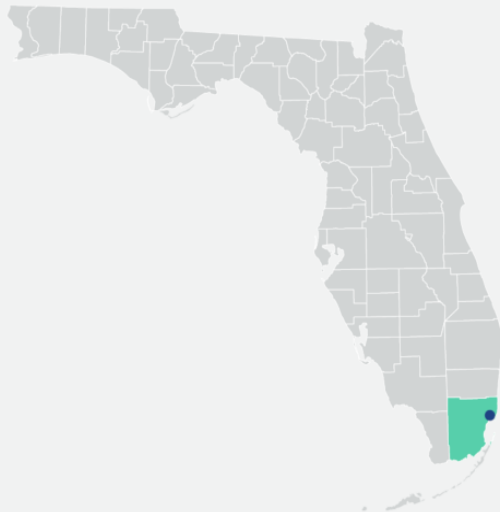
Project Location



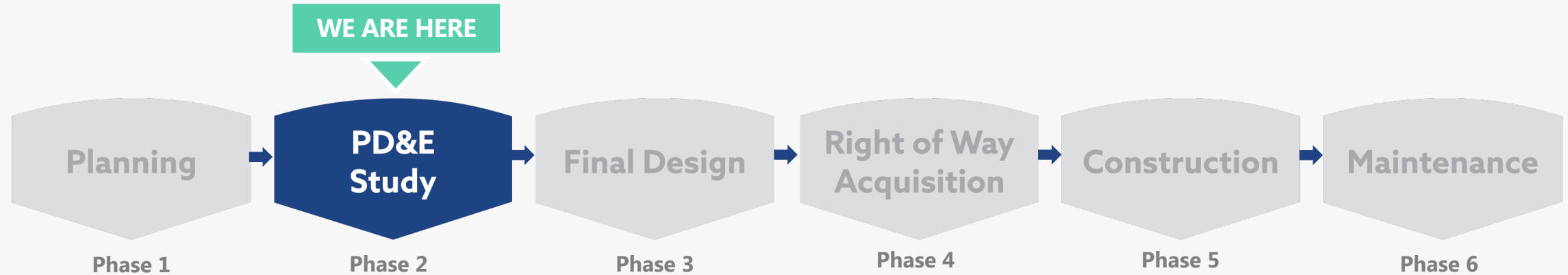
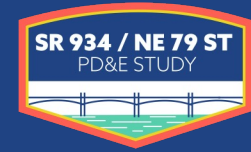
NE 79th Street (SR 934)

From West of Pelican Harbor Drive to
East of Adventure Avenue

Miami-Dade County, Florida



Transportation Project Delivery Process



..... **CONTINUOUS AGENCY AND PUBLIC ENGAGEMENT**

The PD&E Study Process is followed by FDOT

To evaluate:

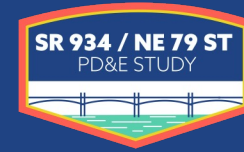
- Engineering Alternatives
- Environmental Impacts

&

To comply with:

- National Environmental Policy Act (NEPA)
- Federal and State Environmental Laws
- Requirements Involving Federal Funding

PD&E Study Process



Project Kickoff Meeting
November 29, 2022

Alternatives Public Meeting
October 2 and 5, 2023

1

Data Collection

- Engineering Data
- Environmental Data
- Other Data

2

Preliminary Concept Alternatives

- Needs Analysis
- Concept Alternatives Development

3

Environmental & Engineering Analysis

- Engineering Analysis & Studies
- Environmental Analysis & Studies
- Concept Alternatives Screening

4

Alternatives Refinement

- Alternatives Refinement and Screening

5

Final PD&E Documents

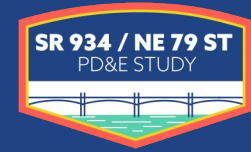
- Preliminary Engineering Report
- NEPA Document
- FDOT Review and Approval of Final Documents

Location and Design Concept Acceptance (LDCA)

Project Advances to the Design Phase

OPPORTUNITY FOR PUBLIC ENGAGEMENT

Project Background



Bridges constructed
in the early
1970s



4 total bridges
(Project consists of bridges
west and east of Harbor Island)

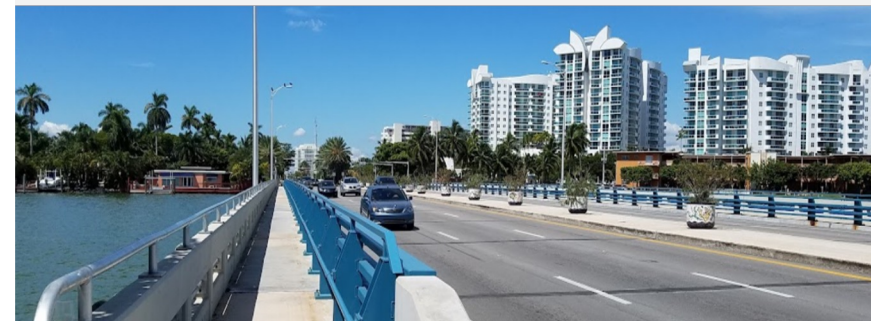



Recent rehabilitation efforts:
2004 and 2010
Structural Repairs
2015
Traffic and Pedestrian Railing

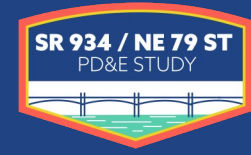

As of November 2020, the
bridge inspection reports
indicate the bridges are
candidates for repair or
replacement.

	Bridge ID
Bridges West of Harbor Island	870083 (WB)
	870549 (EB)
Bridges East of Harbor Island	870084 (WB)
	870550 (EB)

WB – westbound
EB - eastbound

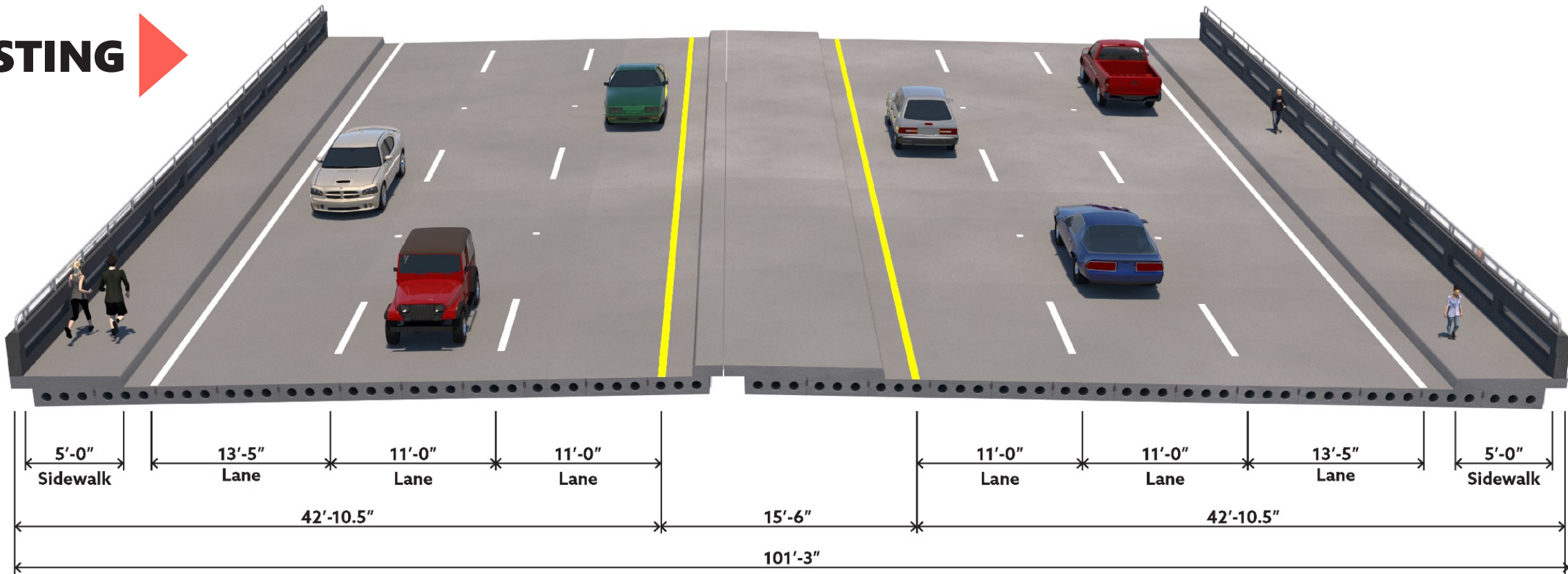


Existing Conditions

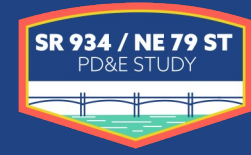


Bridges West of Harbor Island

EXISTING 

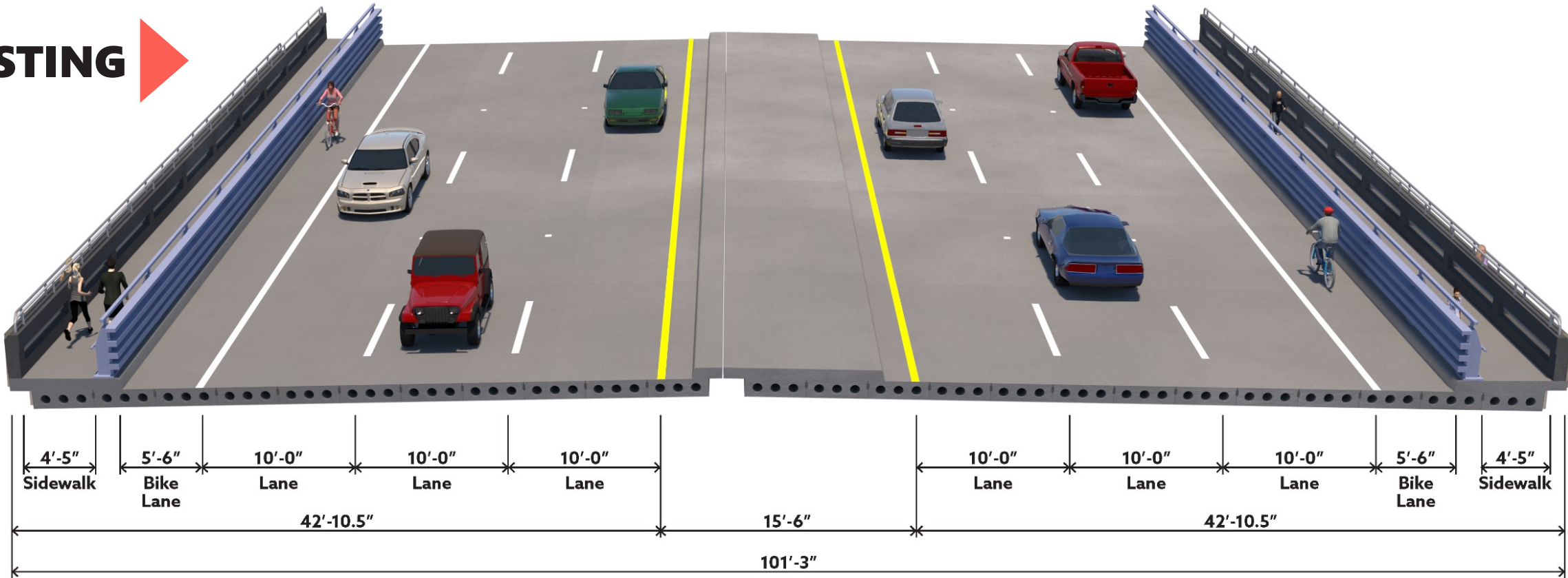


Existing Conditions

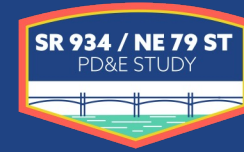


Bridges East of Harbor Island

EXISTING 



Purpose and Need



- **What is the purpose of the study?**

- Evaluate bridge replacement alternatives to address the structural deficiencies of four existing bridges (two bridge pairs)

- **Why is the project needed?**



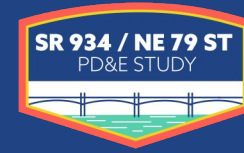
Address
Bridge
Deficiencies



Maintain
Emergency
Evacuation

	Bridge ID	Structural Deficiencies
Bridges West of Harbor Island	870083 (WB)	- Deck: 4 (Poor)
	870549 (EB)	- Superstructure: 4 (Poor) - Substructure: 6 (Satisfactory)
Bridge East of Harbor Island	870084 (WB)	- Deck: 4 (Poor)
	870550 (EB)	- Superstructure: 4 (Poor) - Substructure: 7 (Good)
		Sufficiency Rating: 48.7

Alternatives Evaluation Process



1

Data Collection

Data Collection & Analysis

- Land & Water Surveys
- Traffic
- Roadway
- Structures
- Environmental
- Geotechnical
- Drainage

2

Alternatives Development

Typical Section Analysis

- Lane Widths
- Bike / Ped Features
- Constructability

Traffic & Safety

- Existing Conditions
- Future Demand Forecasting
- Build Conditions
- Safety Analysis

Engineering Analysis

- Structures
- Roadway
- Drainage / Sea Level Rise
- Phasing

Environmental Analysis

- Cultural Resources
- Natural Resources
- Physical Resources
- Documentation

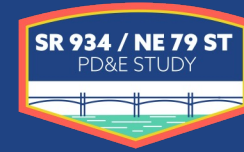
Determine Typical Section

- # of lanes
- Lane widths
- Shoulder widths
- Ped / Bike features

Determine Bridge Height

Analyze Constructability

Alternatives Evaluation Process



3

Alternatives Screening

Screen Alternatives

- No Action / No Build Alternative
- Transportation System Management & Operations Alternative (TSM&O)
- Rehabilitation / Repair Alternatives
 - Alternative 1a (Dismissed)
 - Alternative 1b (Dismissed)
- Build Replacement Alternatives
 - Alternative 2a
 - Alternative 2b

WE ARE HERE

4

Alternatives Meeting

Alternatives Advancing to the Public Meeting

- Alternative 2a
- Alternative 2b

5

Alternatives Refinement

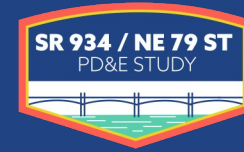
- Refine Alternatives based on public feedback

6

Public Hearing

- Preferred Alternative identified and presented to the public

Rehabilitation Alternatives 1A & 1B



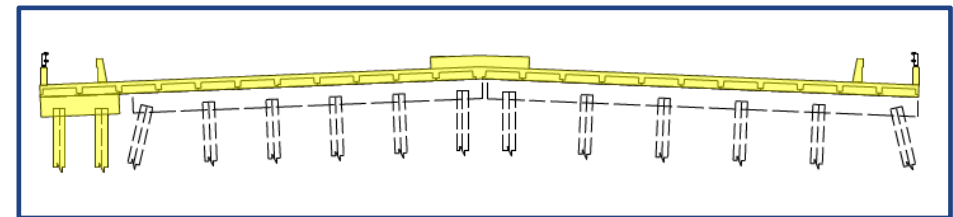
- **Alternative 1A – Minor Rehabilitation**

- Includes concrete repair, joint repair, epoxy overlay on sidewalks, and other miscellaneous repairs

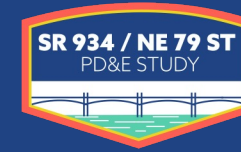


- **Alternative 1B – Major Rehabilitation**

- Includes replacement of the superstructure deck and pier cap, widening, and installation of pile jackets



Rehabilitation Alternatives 1A & 1B Dismissed



✓ Bridge Function

✗ Bridge Structure – Structurally Deficient

- Rehabilitation would not improve the structural deficiencies of bridges long-term
- Rehabilitating the existing bridges is not considered feasible because the structures are at the end of their 50-year design life
- The existing bridge typical sections do not meet current FDOT design standards
- The costs of rehabilitation and continued maintenance out-weigh the benefit and service life of the bridges

Sufficiency Rating:
48.7

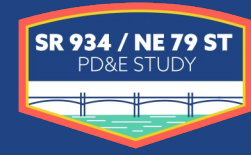
Alt 1A

\$2.9M

Alt 1B

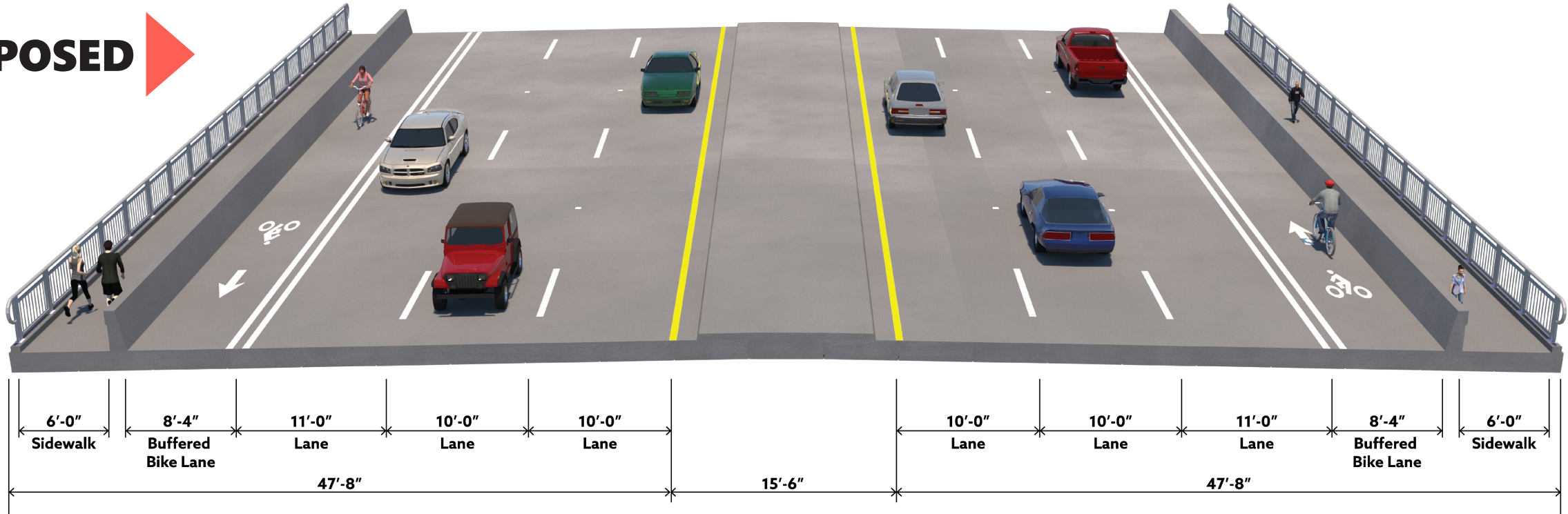
\$31.1M

Replacement Alternatives 2A & 2B

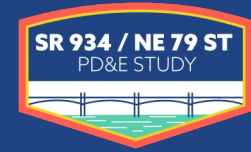


Bridges East
and West of
Harbor Island

PROPOSED



Proposed Bridge Profiles



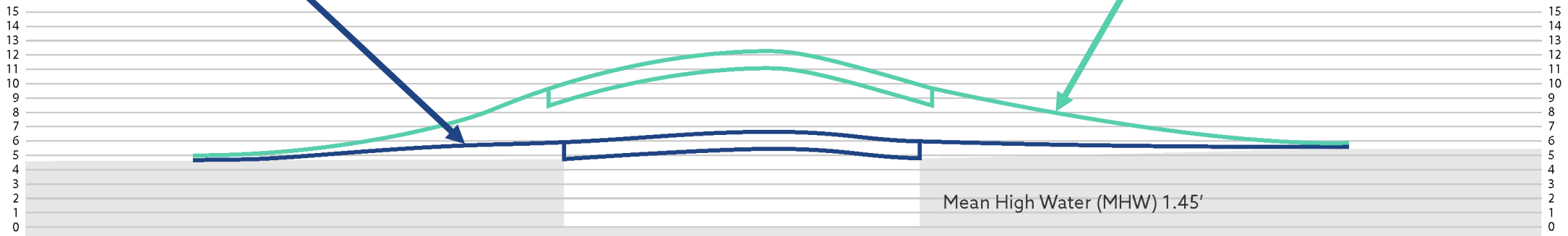
The difference between **Alternatives 2A** and **2B** is their proposed profiles.

Alternative 2A Profile

Profile similar to the existing profile
(Minimum Vertical Clearance 3')

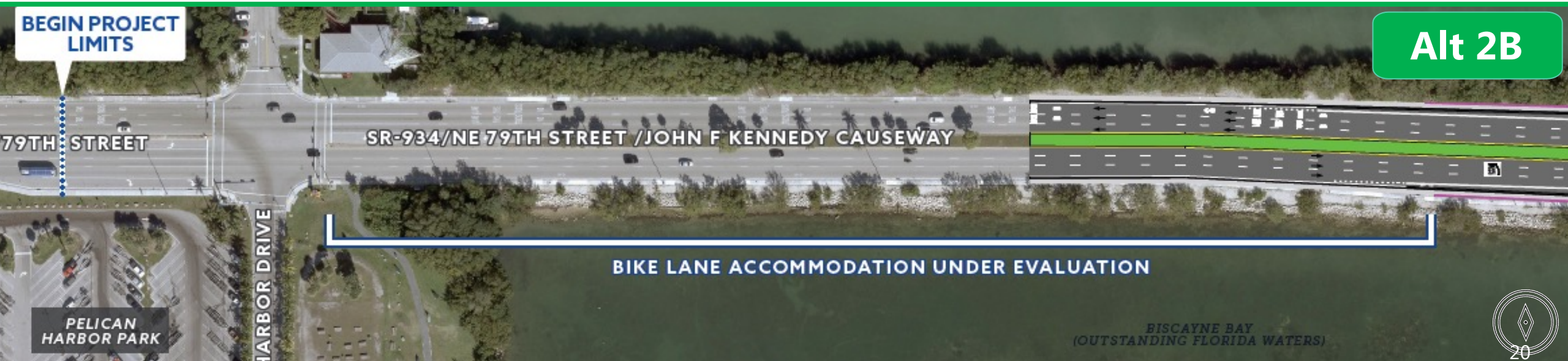
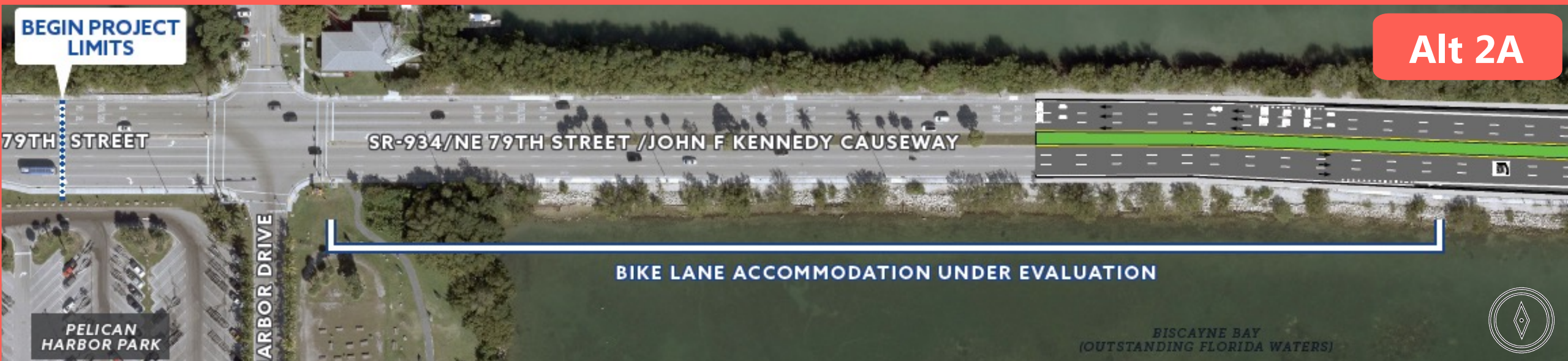
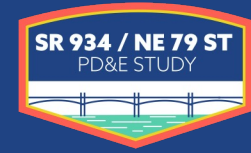
Alternative 2B Profile

Profile raised to meet current guidelines
Requires reconstruction of driveways and
construction of gravity walls
(Minimum Vertical Clearance 7')

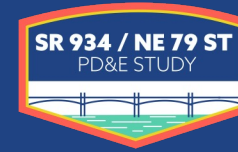


- **Alternative 2A Profile**
Minimum Vertical Clearance 3'
- **Alternative 2B Profile**
Minimum Vertical Clearance 7'

Replacement Alternatives 2A & 2B



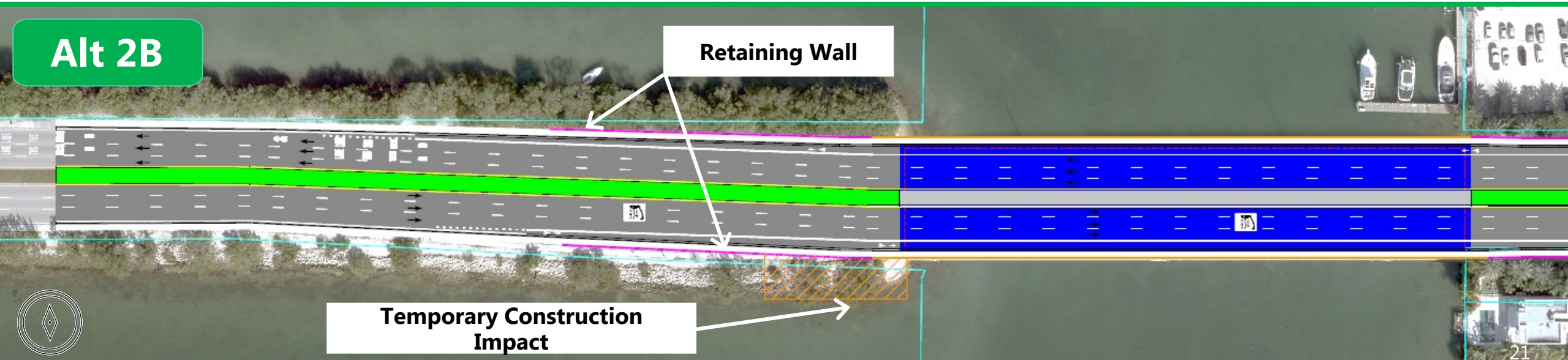
Replacement Alternatives 2A & 2B



Alt 2A



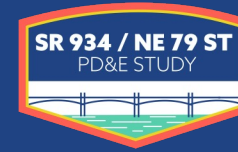
Alt 2B



Retaining Wall

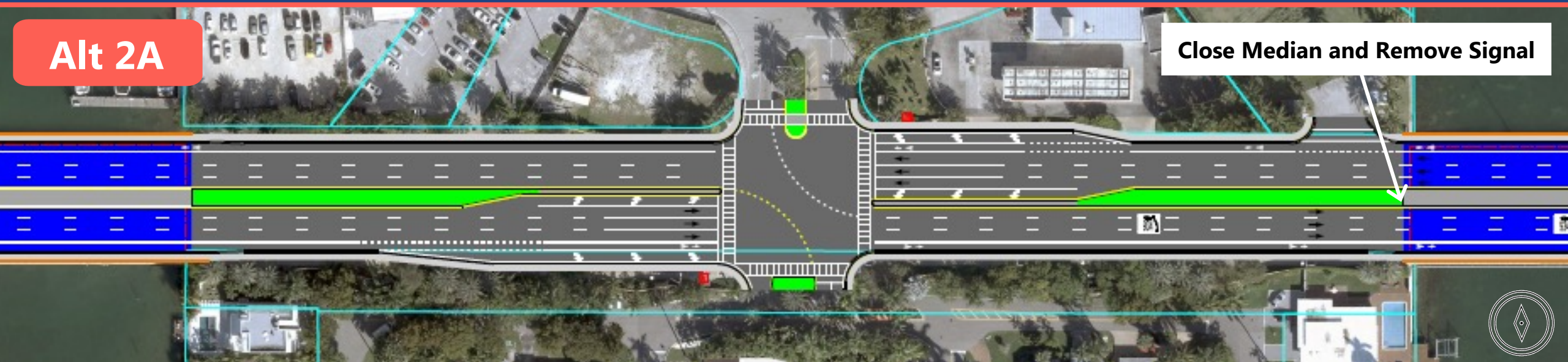
Temporary Construction Impact

Replacement Alternatives 2A & 2B



Alt 2A

Close Median and Remove Signal



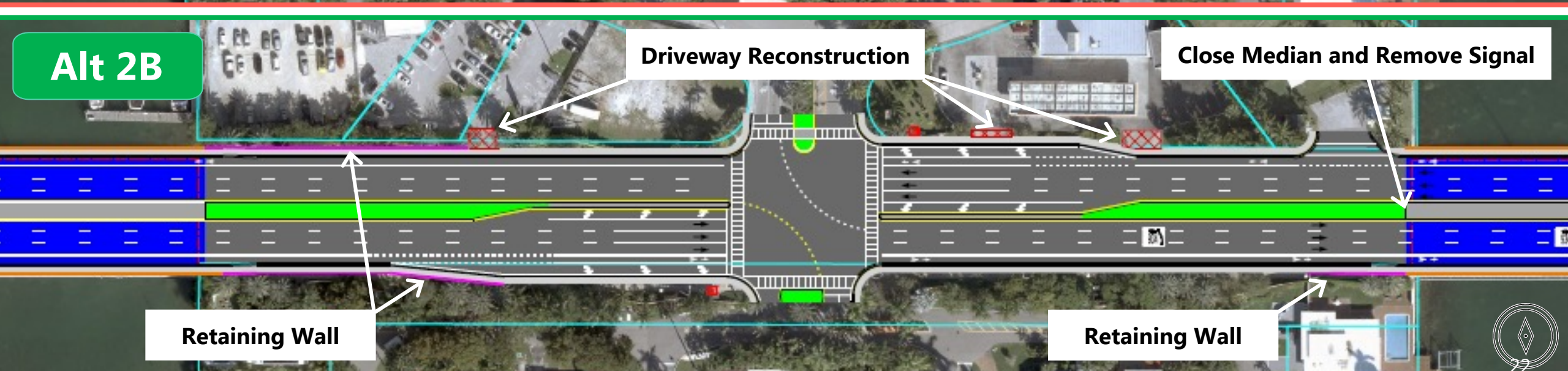
Alt 2B

Driveway Reconstruction

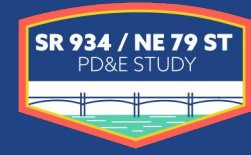
Close Median and Remove Signal

Retaining Wall

Retaining Wall



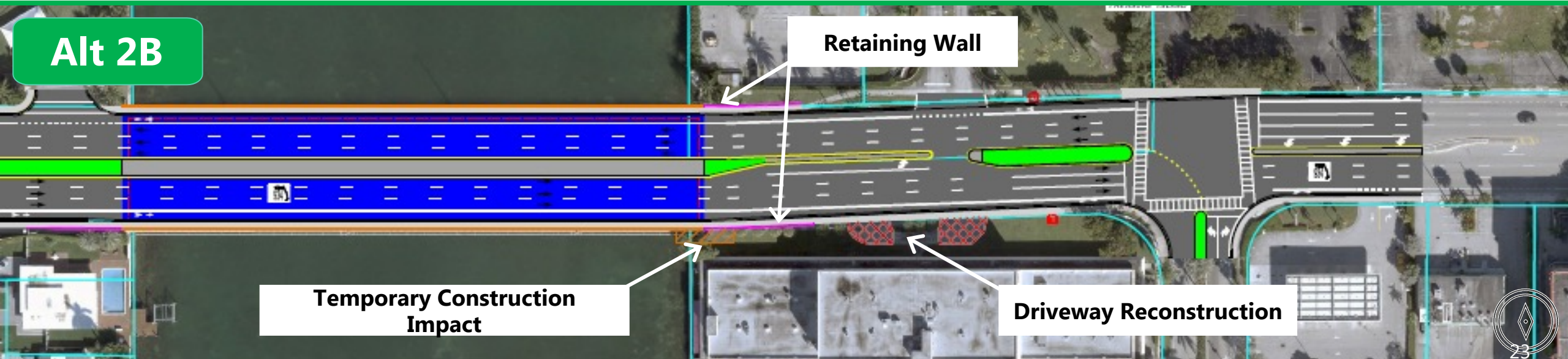
Replacement Alternatives 2A & 2B



Alt 2A



Alt 2B



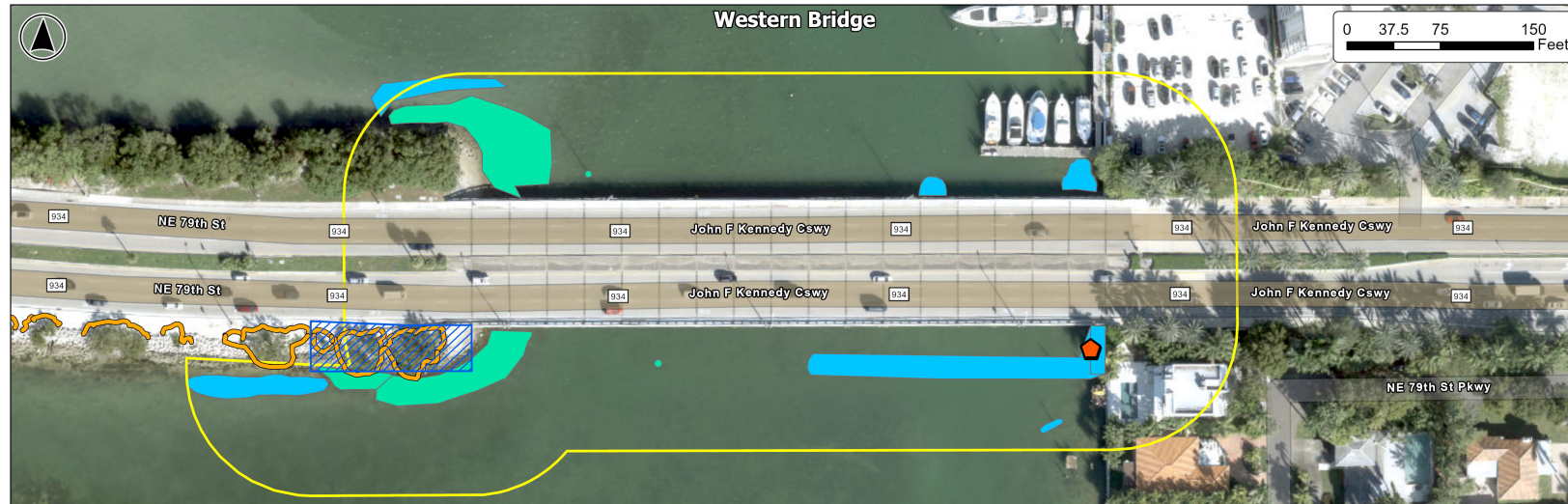
Retaining Wall

Temporary Construction Impact

Driveway Reconstruction

Environmental Analysis

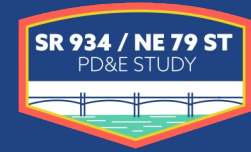
Bridges West of Harbor Island



Bridges East of Harbor Island



Potential Environmental Impacts



No Impact Anticipated:

- Noise
- Air Quality
- Contamination
- Archaeological Sites
- Historic Properties
- Community Resources

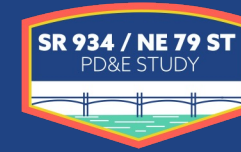
Minimal Impact:

- Wetlands
- Wildlife and Habitat
- Recreation and Section 4(f) Resources
- Utilities

Next Steps

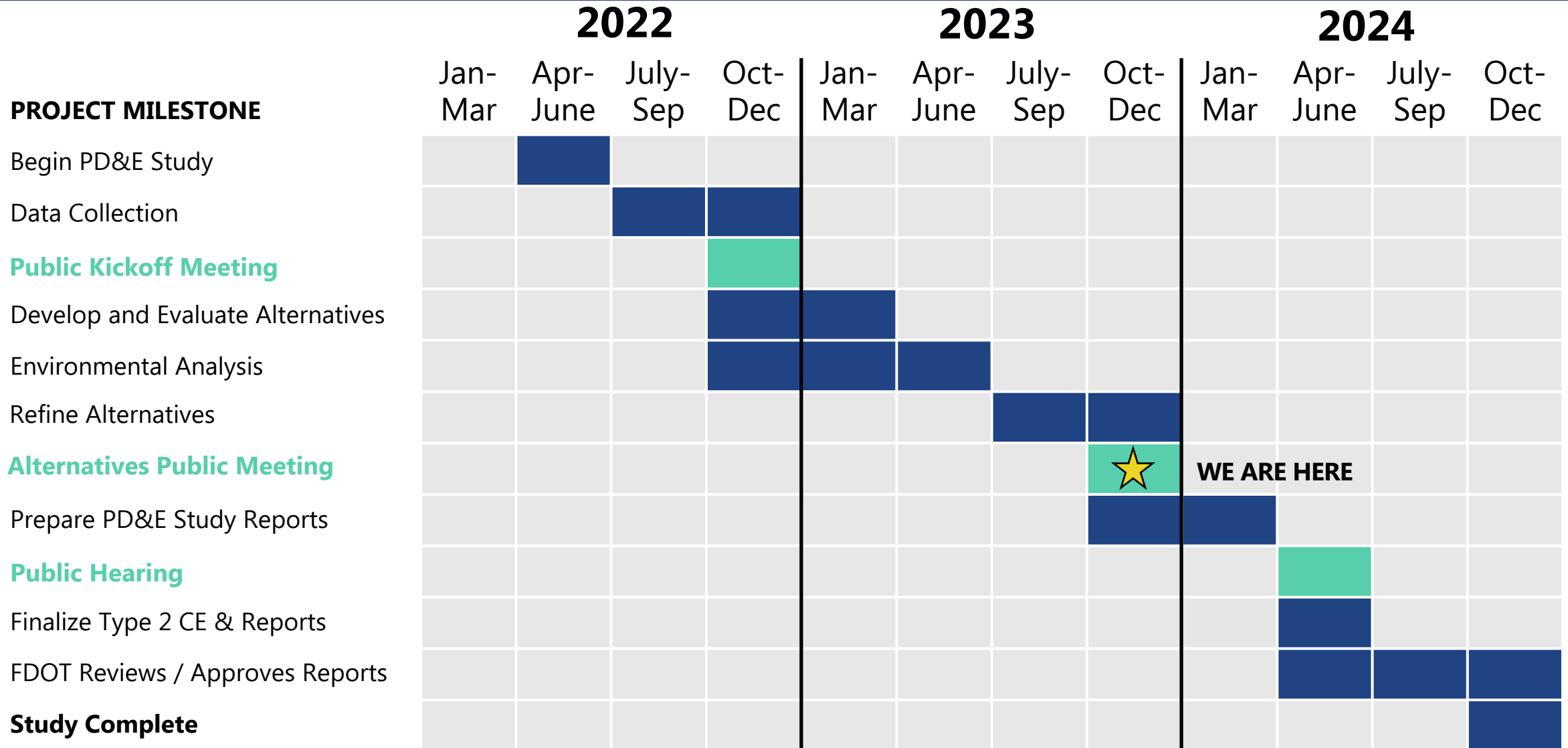
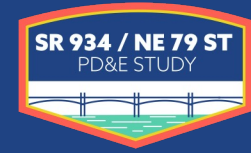
- Finalize analysis
- Continue coordination with state and federal permitting agencies
- Propose mitigation (if necessary)

Alternatives Comparison



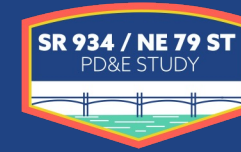
Evaluation Criteria	No-Build Alternative	Bridge Replacement Alternatives	
		Alternative 2A (Low-Bridge Profile)	Alternative 2B (Raised Bridge Profile)
Meets FDOT Standards for Roadway and Bridge	No	No	Yes
Estimated Service Life	5-10 years	75 years	75 years
Increase in Bridge Vertical Clearance	No	No	Yes
Meets Sea Level Rise Requirements	No	No	Yes
Driveway / Access Reconstruction (number)	0	0	5
Retaining Wall Required (length in feet)	0	0	1,325
Estimated Construction Cost (\$ million)	\$0	\$40M - \$50M	\$50M - \$60M
Potential Section 4(f) Impacts	None	Temporary construction phase impacts to Pelican Harbor Park	
Wetland Impacts	None	Minimal impacts (0.056 acres) to mangrove/buttonwood	

Schedule



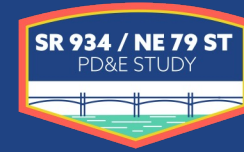
*Schedule is Subject to Change

Public Engagement Snapshot



AGENCY / ORGANIZATION	DATE
North Bay Village Commission Meetings	October 2022
Public Kickoff Meeting	November 29, 2022
Project Advisory Team Meeting	April 20, 2023
Miami-Dade Transportation Planning Organization (TPO) Citizens' Transportation Advisory Committee	May 31, 2023
TPO Transportation Planning Council	June 12, 2023
TPO Bicycle Pedestrian Advisory Committee	June 13, 2023
North Bay Village Beautification Meeting	July 20, 2023
TPO Transportation Aesthetics Review Committee	September 20, 2023
Alternatives Public Meeting - Virtual	October 2, 2023
Alternatives Public Meeting – In Person	October 5, 2023

Public Engagement – Stay Informed



Public Meetings

- Alternatives Public Meeting
- Project Advisory Team Meetings
- Agency/Stakeholder Meetings



Informing the Public

- Press Release
- Public Notices
- Newsletters
- Mailings



Public Hearing

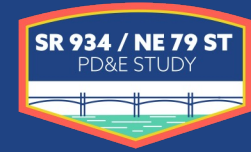
- Formal Presentation
- Comments by the Public



Website

www.southflroads.com/79thstreetbridgespdestudy

Contact Information



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FDOT Project Manager

FDOT District 6

1000 NW 111 Avenue

Miami, FL 33172

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Consultant Project Manager

HDR Engineering, Inc.

8333 NW 53rd St, Suite 302

Doral, FL 33166

Phone: (904) 598-8964

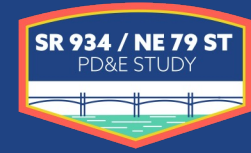
Email: steve.schnell@hdrinc.com

LET'S GET EVERYONE HOME SAFELY.

[TargetZeroFL.com](https://www.TargetZeroFL.com)



Together, we can drive change.



Thank you for attending!



SR 934 / NE 79 ST
PD&E STUDY

