

Atlantic Isles Lagoon Bridge (Bridge No. 874218) Project Development and Environment (PD&E) Study

From Atlantic Isles West of SR A1A to Atlantic Avenue

Miami-Dade County, Florida



Affected Parties
Consultation Meeting

July 21, 2023



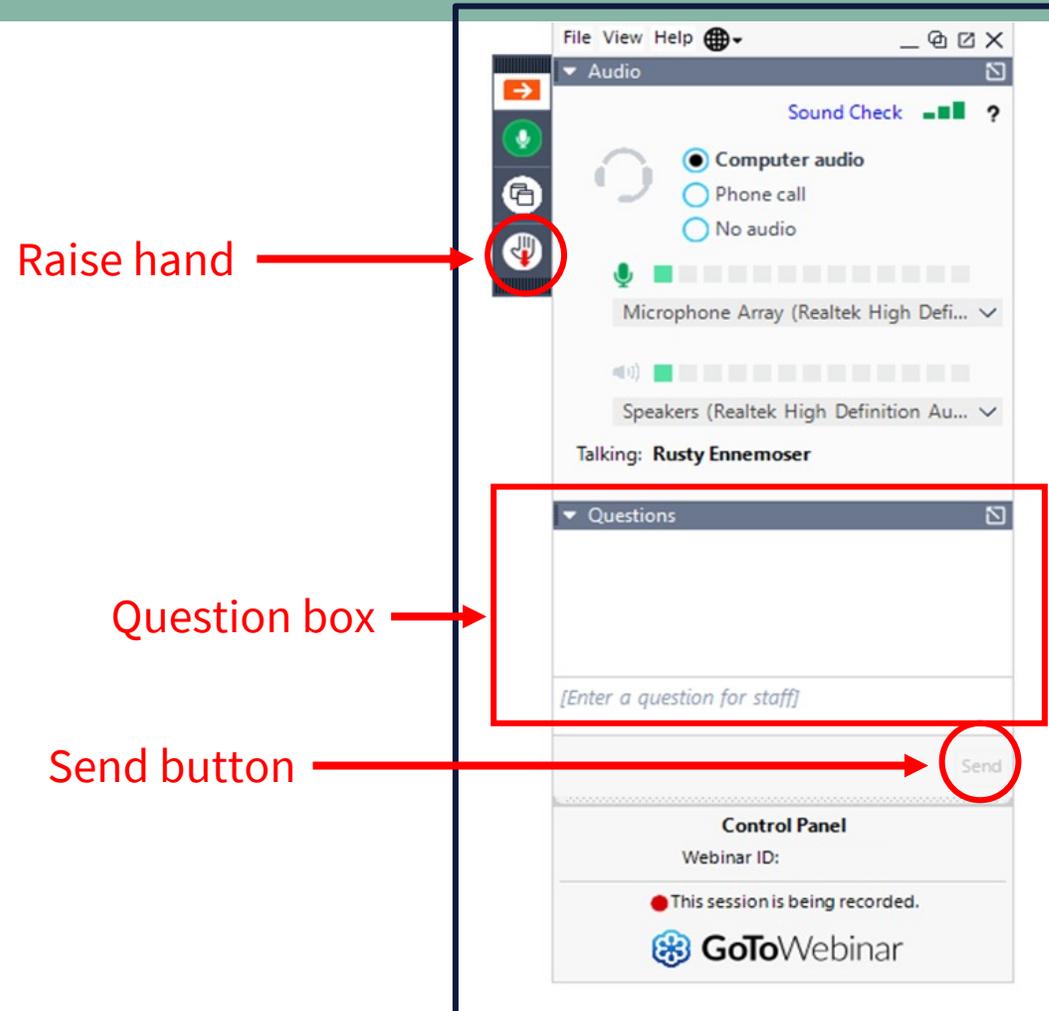
Start-up & Welcome

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



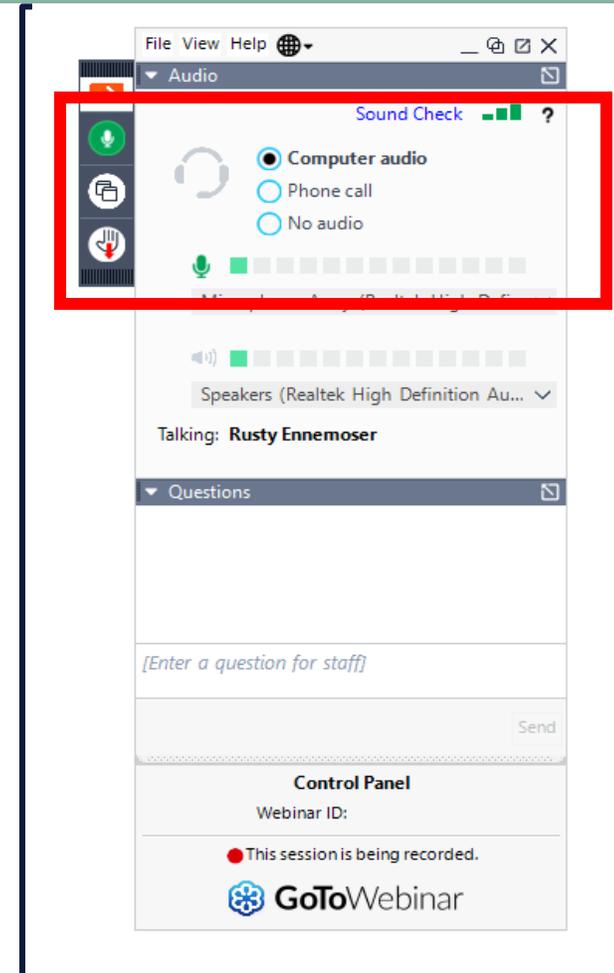
About the Virtual Meeting Format

- Using GoToWebinar
 - Locate the Question Box in the Control Panel
 - Type your question or comment
 - Click “send” button
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Technical Difficulties

- If you do not hear the audio during the virtual meeting, please check your computer speaker settings in the control panel.
- If you experience technical difficulties, please contact **Monica Diaz** at **(305) 984-2715**



Meeting Purpose and Speakers



Victoria Vogt
FDOT



Steven Craig James
FDOT



Colleen Ross
Jacobs



Amy Streelman
Janus Research





APC Member Introductions



◦ DADE HERITAGE TRUST ◦

Preservation. Education. Advocacy.
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Title VI Compliance

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

Tish Burgher
District Six Title VI Coordinator
Florida Department of Transportation
1000 NW 111 Avenue, Room 6134
Miami, FL 33172
305-470-5277
Tish.Burgher@dot.state.fl.us

Stefan Kulakowski, FCCM, CPM
State Title VI Coordinator
Florida Department of Transportation
Equal Opportunity Office
605 Suwannee St. MS65
Tallahassee, FL 32399-0450
850-414-4742
Stefan.Kulakowski@dot.state.fl.us

All inquiries or concerns will be handled according to FDOT procedure and in a prompt and courteous manner.

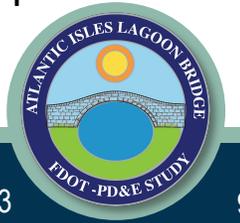
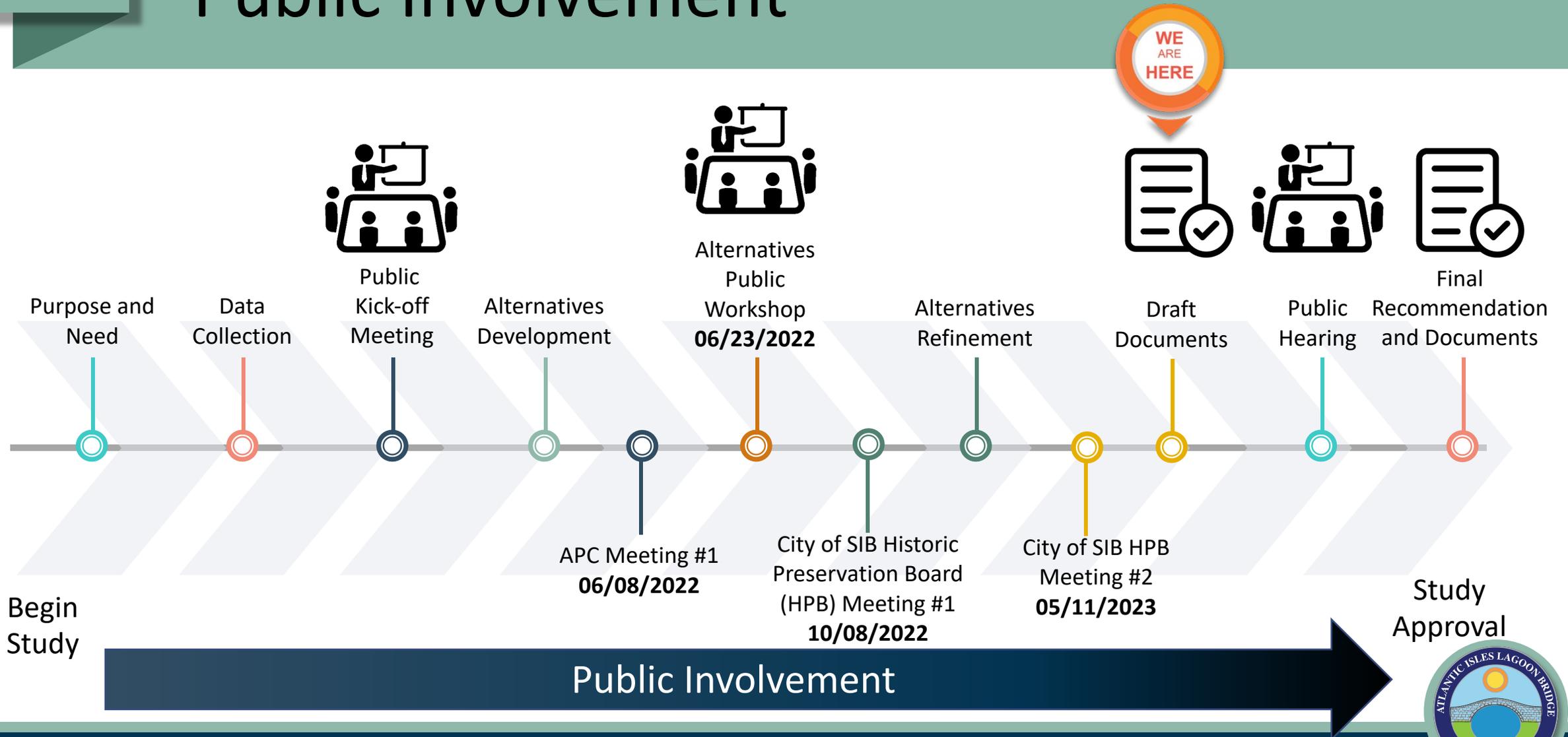


AGENDA

- ✓ **Project Introduction & Background**
- ✓ **Purpose and Need**
- ✓ **Alternatives Considered**
- ✓ **Cultural Resources**
 - ✓ **Historic Significance**
 - ✓ **Section 106 Process**
 - ✓ **Mitigation Measures**
- ✓ **Section 4(f) Update**
- ✓ **Input/Discussion**
- ✓ **Next Steps**

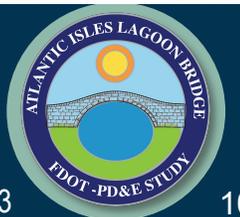


Public Involvement



Project Study Area

- Two local streets within Study Area:
 - Atlantic Avenue – one-way eastbound facility
 - Atlantic Isles – two-way facility
- Atlantic Isle Bridge (FDOT Bridge No. 874218)
 - Located on Atlantic Avenue (one-way)



Project Background

- Bridge constructed in 1925
- Low-level bridge with cast-in-place reinforced concrete arch
- 1999 – load rating analyses performed
- Posted weight limits
- Bridge inspected annually



Bridge Deficiencies

- FDOT Bridge Inspection – Performed September 26, 2022
 - Bridge Health Index = 60.39 (out of 100)
 - Sufficiency Rating = 40.9 (out of 100)
 - Functionally Obsolete – substandard traffic barriers and roadway geometry
 - Missing oolitic limestone on north face of arch
 - Exposed steel and areas of corrosion throughout length of arch underside

- Geotechnical Evaluation – Performed in March 2021
 - Inconclusive
 - Bridge classified as having “unknown foundations”

	BRIDGE INSPECTION REPORT PREPARED FOR: FDOT District 6 BRIDGE OWNER: CITY OF SUNNY ISLES BEACH INSPECTION TYPE: INTERIM CONTRACT No. CA611		Inspected by: Marlin Engineering, Inc.
	Bridge No. 874218	REPORT CONTAINS	Inspection Date: 09-26-22
<input checked="" type="checkbox"/> BrM Inspection Report <input checked="" type="checkbox"/> CIDR Information	<input type="checkbox"/> Bridge Profile <input type="checkbox"/> Underwater Inspection	<input type="checkbox"/> Fracture Critical Data <input checked="" type="checkbox"/> Load Rating Summary Sheet	<input type="checkbox"/> Addendum <input type="checkbox"/> Mechanical and Electrical Data
Atlantic Isle Avenue over Ocean Canal	Facility carried & Location	0.25mi. West of A1A	
Location Map		Detour Length = 0.13 Miles	



Purpose and Need



Address structural deficiencies

Provide a safe and usable route for the public

Improve functional operations

Alternatives Considered

Non-viable Alternatives

- X TSM&O Alternative - Operational Improvements
 - *Does not address structural deficiencies*
- X Multimodal Alternative
 - *Does not address structural deficiencies*
 - *Impacts Park & Lagoon (NRHP-eligible resources)*
- X Separate Alignment Alternative
 - *Significant impacts to residential properties*
 - *Impacts Park & Lagoon (NRHP-eligible resources)*
- X Tunnel Alternative
 - *Significant impacts to Park & Lagoon (NRHP-eligible resources)*
 - *Significant impacts to natural resources*

Viable Alternatives

- ✓ No-Action
 - *Doesn't meet P&N; but MUST be studied throughout*
- ✓ Bridge Rehabilitation
- ✓ Bridge Replacement

No Action Alternative

Advantages:

- No construction effects
- No construction costs
- No disruption to community or travel patterns
- Bridge service life estimated between 15 and 25 years

Disadvantages:

- Frequent maintenance
- Does not preserve historic integrity
- Does not provide new bridge riding surface or structural arch
- Does not involve new foundations
- Load restrictions remain



Build Alternative 1 - Rehabilitation

Advantages:

- New bridge deck, structural arch, and foundations
- Maintains existing arch and bridge façade
- Load restrictions removed
- New bridge components life = 75 years

Disadvantages:

- Significant construction risks
 - Bridge façade could crumble
 - Potential for bridge settlement
- Frequent future maintenance of bridge façade
- Does not address existing bridge functional deficiencies
- Longer construction time compared to replacement



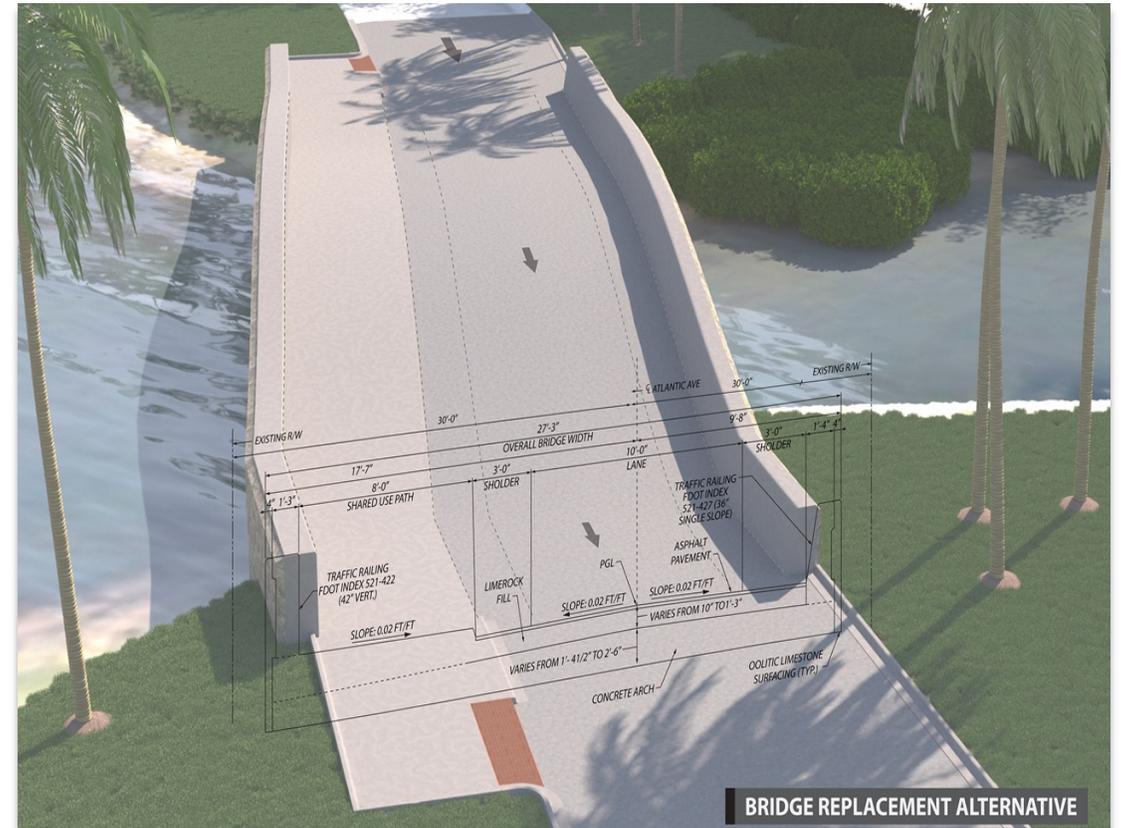
Build Alternative 2 - Replacement

Advantages:

- Corrects structural deficiencies and functionality
- Separates pedestrians/bicyclists from motorized vehicles
- Lower construction & maintenance costs (compared to Rehabilitation Alternative)
- Bridge life = 75 years
- Load restrictions removed
- Existing limestone could be reused (or locally sourced)

Disadvantages:

- Historic bridge is gone
- Impacts the National Register Park & Lagoon
- May have slightly different profile than existing bridge



Preferred Alternative

- Statistical Analysis Performed – Compared:
 - Public Input to Date
 - Environmental Impacts
 - Bridge Functionality
 - Safety
 - Costs

Preferred Alternative:

➔ **Build Alt #2 (Replacement)** ←

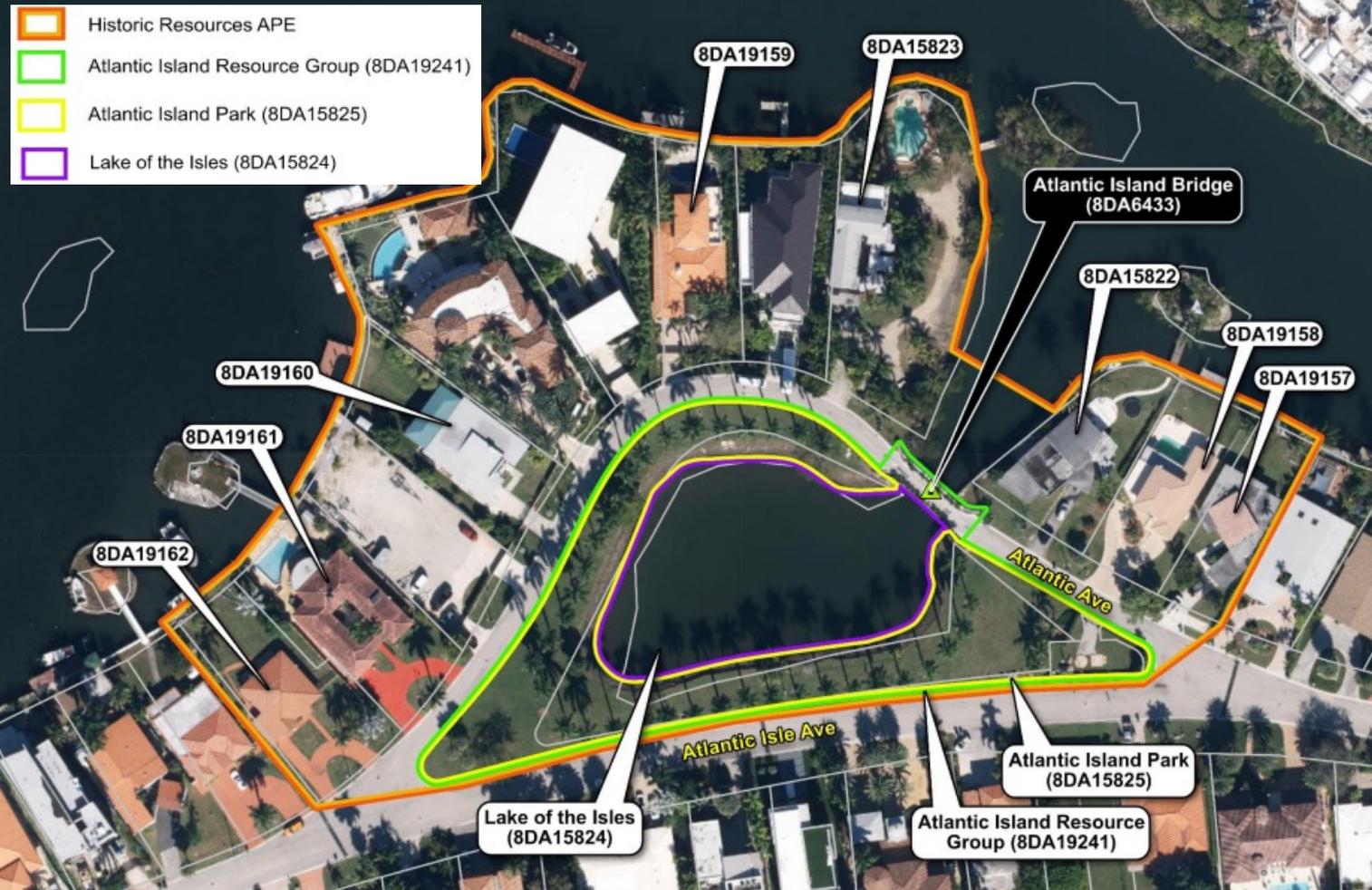
Continue to Refine & Evaluate Against No-Action Alternative Throughout Study

Category	Criteria	No-Action Alternative	Build Alternative #1 (Rehab)	Build Alternative #2 (Replace)
Structural Deficiency	Foundation Improvements	0	1	1
	Riding Surface Improvements	0	1	1
	Total	0	2	2
Functionality	Meets Design Criteria	0	0	1
Bridge Life	Life Expectancy	0	3	3
Project Purpose and Need	Meets Purpose and Need	0	1	2
Natural Environment Impacts	Permanent Wetland (NWI) Impacts (acres)	3	3	1
	Permanent Surface Water Impacts (acres)	3	3	1
	Increased Shading Impacts	1	1	0
	Species Habitat Impacts (acres)	3	2	2
	Total	10	9	4
Safety and Access	Operation and Safety	0	0	2
	Weight Limit Restrictions	0	1	1
	Bike and Ped Improvements	0	0	3
	Emergency Response	0	1	2
	Total	0	2	8
Community Impacts	Community Resources Impacted (Temp.)	3	2	2
	Residential Parcel Impacts	3	3	3
	Temporary ROW Impacts (Acres)	3	2	2
	Total	6	5	5
Cultural Resource Impacts	NHRP Eligible Resource Impacts	3	2	2
	Maintains Historic Integrity	1	0	0
	Total	4	2	2
Costs	Construction Cost	3	2	1
	Future Maintenance Costs	1	2	3
	Total	4	4	4
Public/Stakeholder Support	Alternative Support	0	1	2

	No-Action	Build #1	Build #2
Total Score	24	29	33
Rank	3	2	1



Cultural Resources



2016 – SHPO determined Bridge is NRHP-eligible

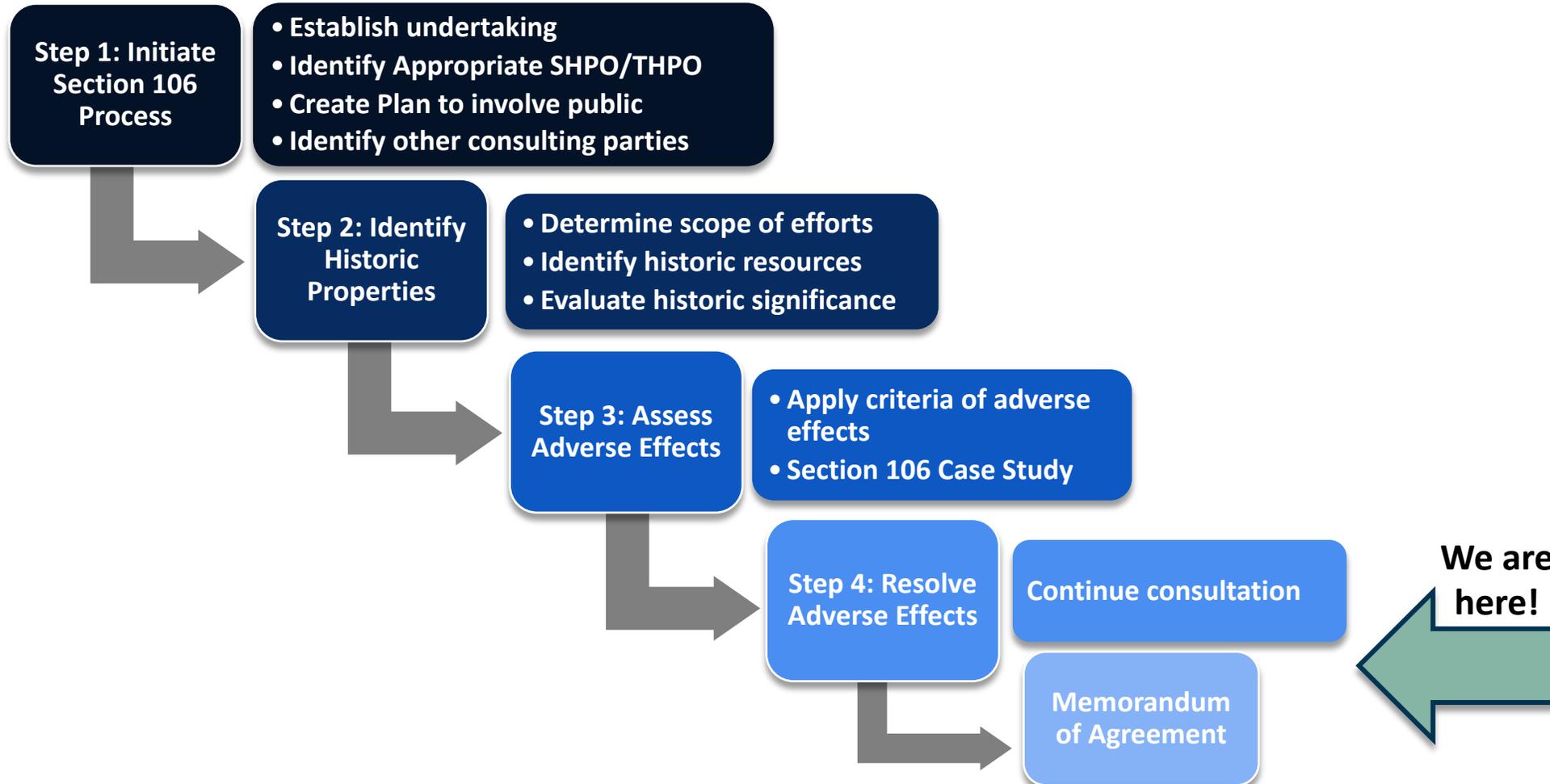
Feb. 2022 – SHPO determined Resource Group is NRHP-eligible

Atlantic Island Resource Group
Group Includes:

- ✓ Atlantic Island Bridge
- ✓ Lake of the Isles (Lagoon)
- ✓ Atlantic Island Park



Section 106 of the National Historic Preservation Act Process



Affected Parties Consultation

- ✓ Present Project Purpose and Need and Alternatives Considered
- ✓ Discuss the Section 106 Process
- ✓ Outline how Section 106 Process is carried out through project
- ✓ Present findings of cultural resources studies
 - ✓ Allows for input from consultation participants regarding resources and eligibility
- ✓ Define next steps in the Section 106 process: effects and resolution of effects
- *Gain your input on potential effects and minimization and mitigation measures*
- *Memorandum of Agreement will be prepared documenting input*

Minimization and Mitigation Measures

Mitigation Measures to Consider

- Historic American Engineering Record (HAER) and Historic American Landscape Survey (HALS) Documentation - Bridge, Park, & Lagoon



Minimization and Mitigation Measures

Mitigation Measures to Consider

- State Historic Marker - History of Atlantic Isles Design, Bridge, Park, & Lagoon



Minimization and Mitigation Measures

Mitigation Measures to Consider

- Incorporate Historical Design Elements into the New Bridge



Summary of City of SIB HPB Meeting (May 2023)

Potential Mitigation Options for Consideration:

- ✓ Historic American Engineering Record (HAER) and Historic American Landscape Survey (HALS) Documentation
- ✓ State Historic Marker
- ✓ Incorporate Historical Design Elements of the Existing Bridge
- ✓ Provide the City with Documentation Materials

Mitigation Measures Requested:

- ✓ Elements of Historic Bridge be Preserved in the Community
- ✓ Continued Input throughout Design Phase

Section 4(f)

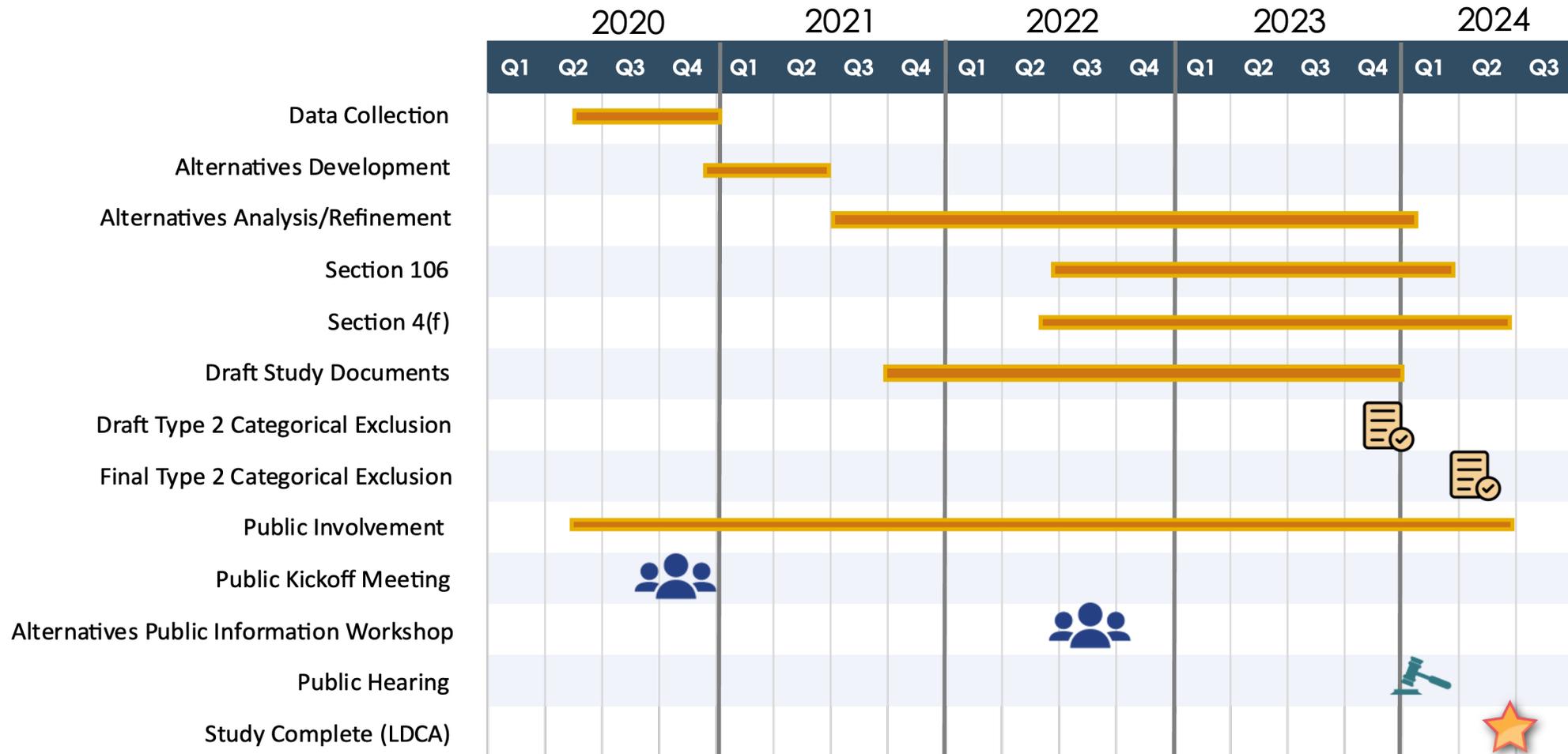
- Section 4(f) as per the U.S. Department of Transportation Act
- Alternatives were Evaluated under Section 4(f)
- Section 4(f) Analysis Completed in Connection with Section 106
- Individual Section 4(f) Documentation Required
- Evaluated:
 - Avoidance Alternative
 - Least Harm Alternative

Discussion



- Select the raised hand feature on the control panel to voice your question or comment
- Type your comment in the chat
- Any additional comments can be submitted to Victoria Vogt at Victoria.Vogt@dot.state.fl.us.
- Would appreciate all comments by August 4.

Project Schedule



Next Steps

What happens next?

- Draft and Execute Memorandum of Agreement
- Continue Consultation (as needed)
- Prepare Individual Section 4(f) Document



Contact Information

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Thank You for attending!



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Consultation Meeting

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