



Interstate 195 PD&E Study

I-195/SR 112 From NW 12th Ave to SR 907/Alton Road
FPID No. 440228-2

Community Advisory Group Meeting #1

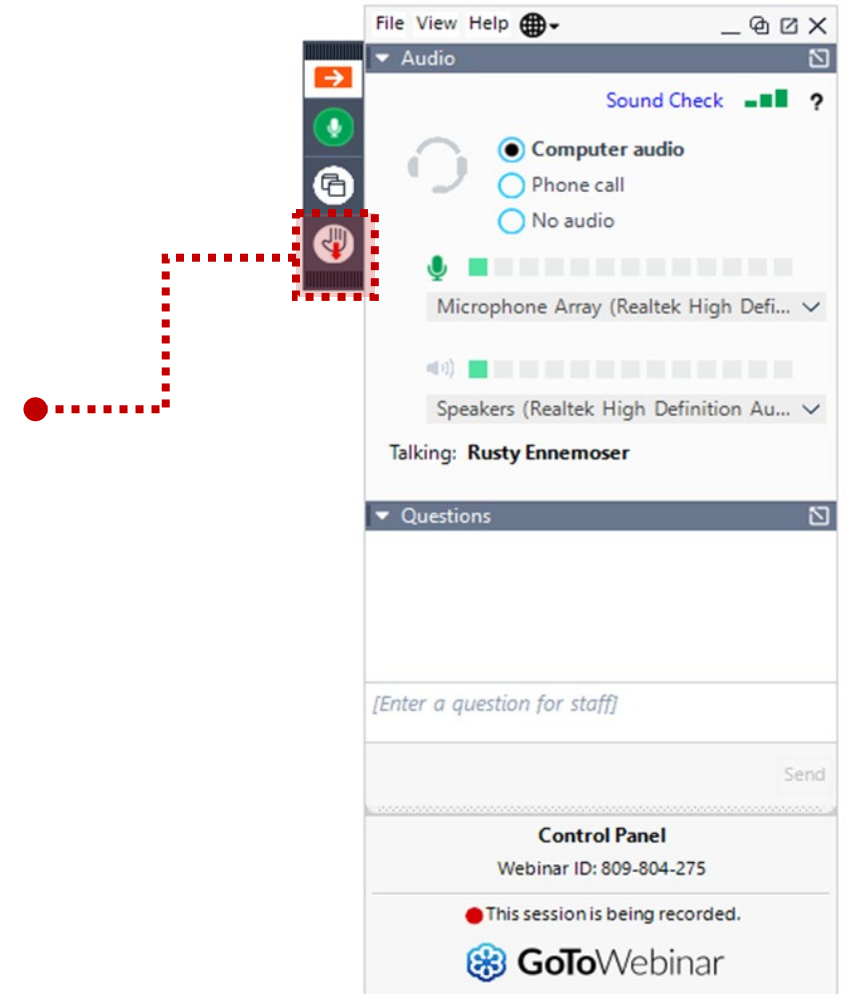
April 3, 2023



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- We ask that you use the **“Raise Hand”** button on your **GoToWebinar panel** to provide your input and participate during the open discussion. A staff member will advise when it is your turn to speak.



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Presenters



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Agenda

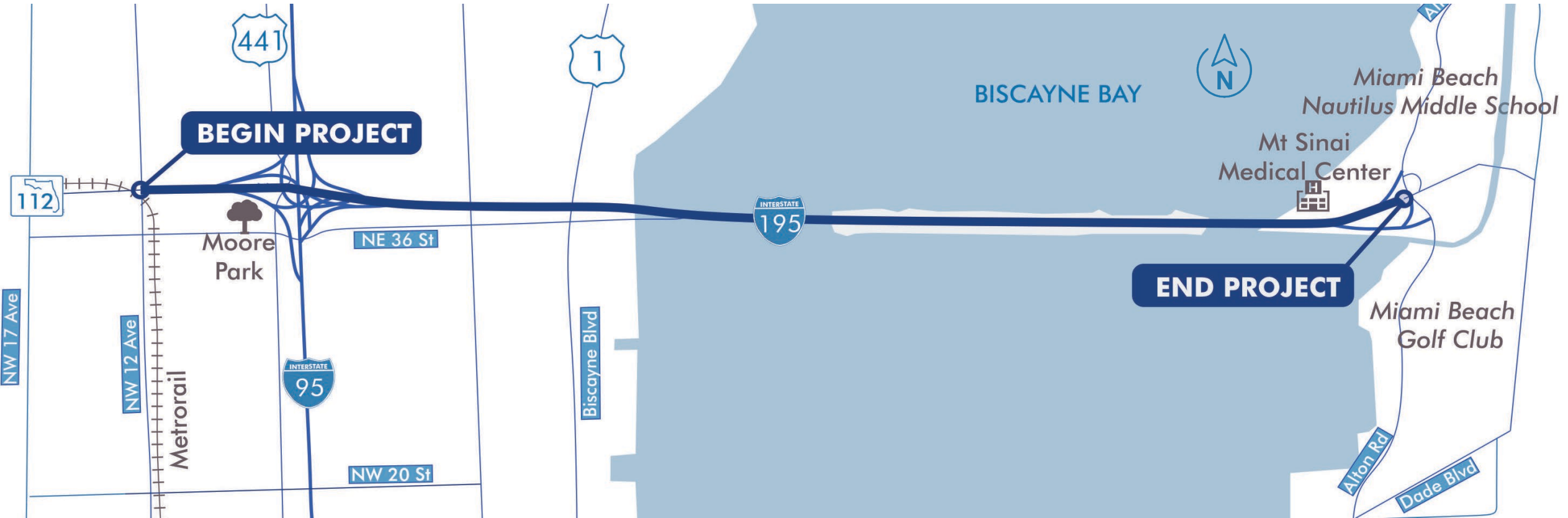
- Introductions
- Role of Community Advisory Group
- Study Area and Background
- Summary of the 2020 Corridor Planning Study
- PD&E Study Overview
- Next Steps
- Questions

Role of Community Advisory Group

- ✓ Provide guidance and serve as a resource to the PD&E Study Team
- ✓ Ensure stakeholder interests are fully considered in study
- ✓ Serve as a sounding board for recommendations



Study Area



Address Operational Deficiencies



Enhance System Linkage/Regional Connectivity



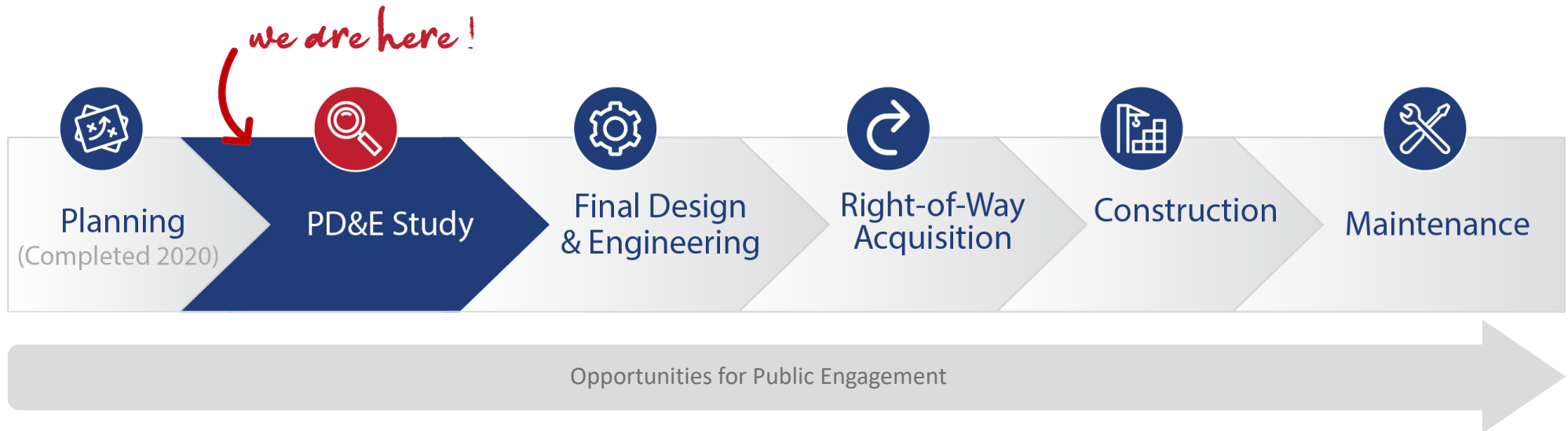
Enhance Multimodal Connectivity



Improve Safety

What is a PD&E Study?

A PD&E study is a blending of engineering analysis, environmental assessments, and public involvement activities. The process is used by engineers and planners to determine the location and conceptual design of the preferred roadway improvements.

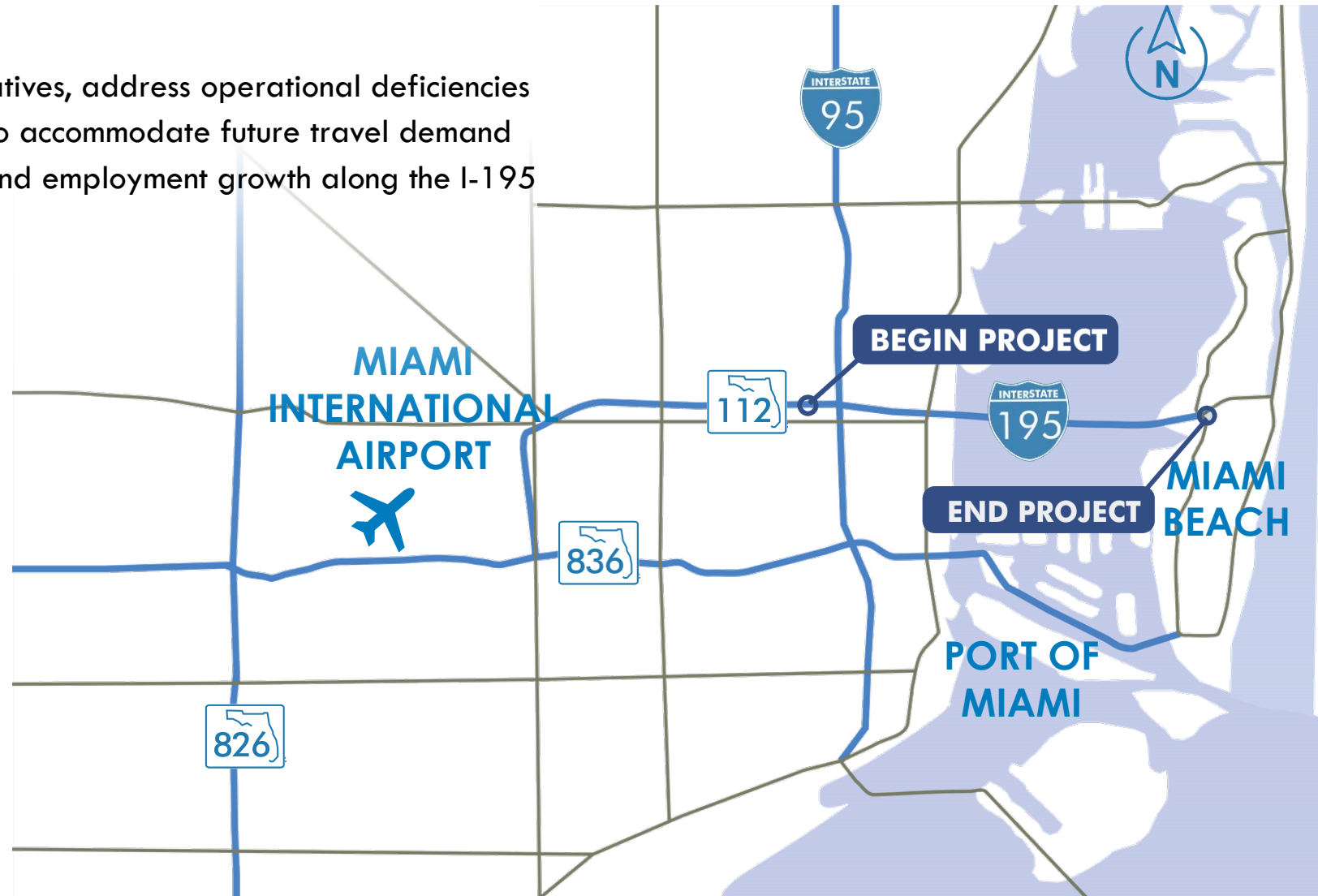


Purpose & Needs

The purpose of this project is to evaluate alternatives, address operational deficiencies and relieve existing/future congestion in order to accommodate future travel demand projected as a result of area-wide population and employment growth along the I-195 corridor.

Needs

- Address existing and future congestion
- Enhance system linkage and improve regional connectivity
- Improve safety conditions
- Enhance multimodal connectivity between the cities of Miami and Miami Beach



Background

Transportation Demand

According to the Miami-Dade Transportation Planning Organization, Long Range Transportation Plan, Miami-Dade County population is expected to increase by 67% and employment by 38% by 2045. Several existing capacity and operational deficiencies were identified which are projected to be exacerbated in the future if no improvements are made.

System Linkage

I-195/SR 112 is a Strategic Intermodal System corridor that connects to I-95 and provides critical connection for Miami Beach. Access to the I-95 express lanes is also a critical need for areas east of I-95 and Miami Beach.



Background

Safety

Several locations of the corridor are on FDOT's high crash list with multiple crash clusters indicative of safety concerns that need to be addressed.

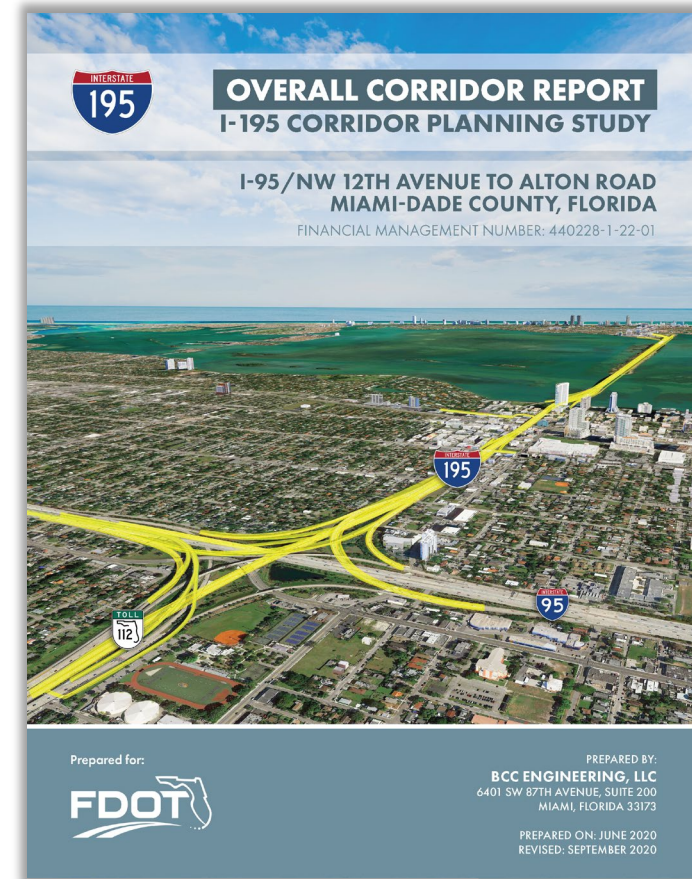
Multimodal

There is a lack of bicycle and pedestrian connectivity between Miami and Miami Beach. A separate bicycle and pedestrian facility that connects to existing facilities within Miami and Miami Beach will be evaluated. The project will also evaluate options that enhance transit opportunities.



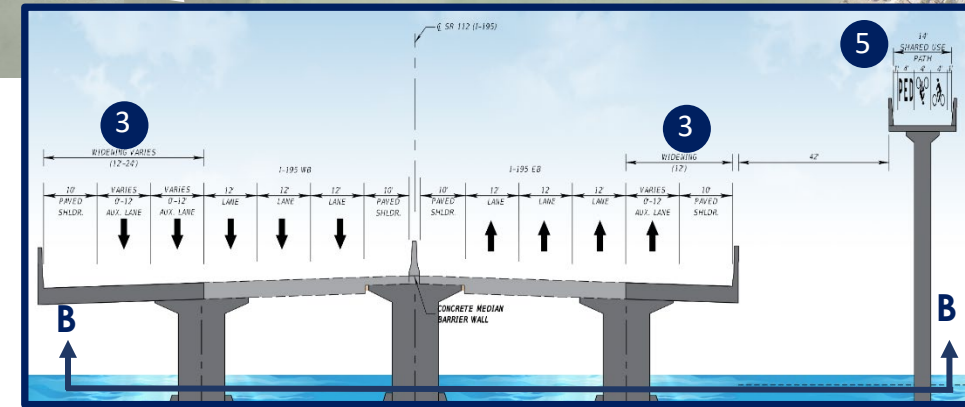
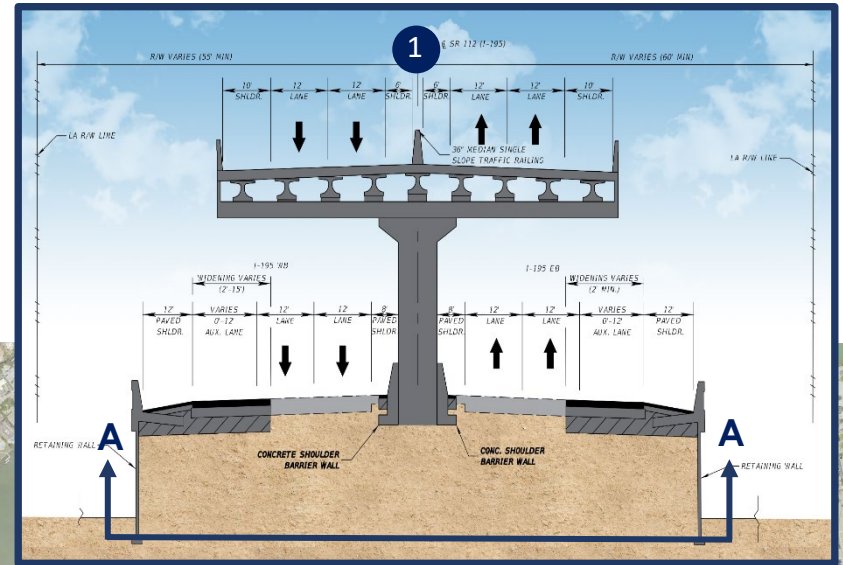
2020 Corridor Planning Study (CPS)

- I-195 Corridor Planning Study completed June 2020
- Developed and evaluated several alternatives
 - Alternative 3 was recommended as the Refined Build Concept
 - Comprehensive Public Outreach
 - Public Workshop
 - Elected Official Briefings
 - Neighborhood and small group meetings
 - Project Advisory Team (4 meetings)



Previous Findings

2020 Corridor Planning Study Outcomes



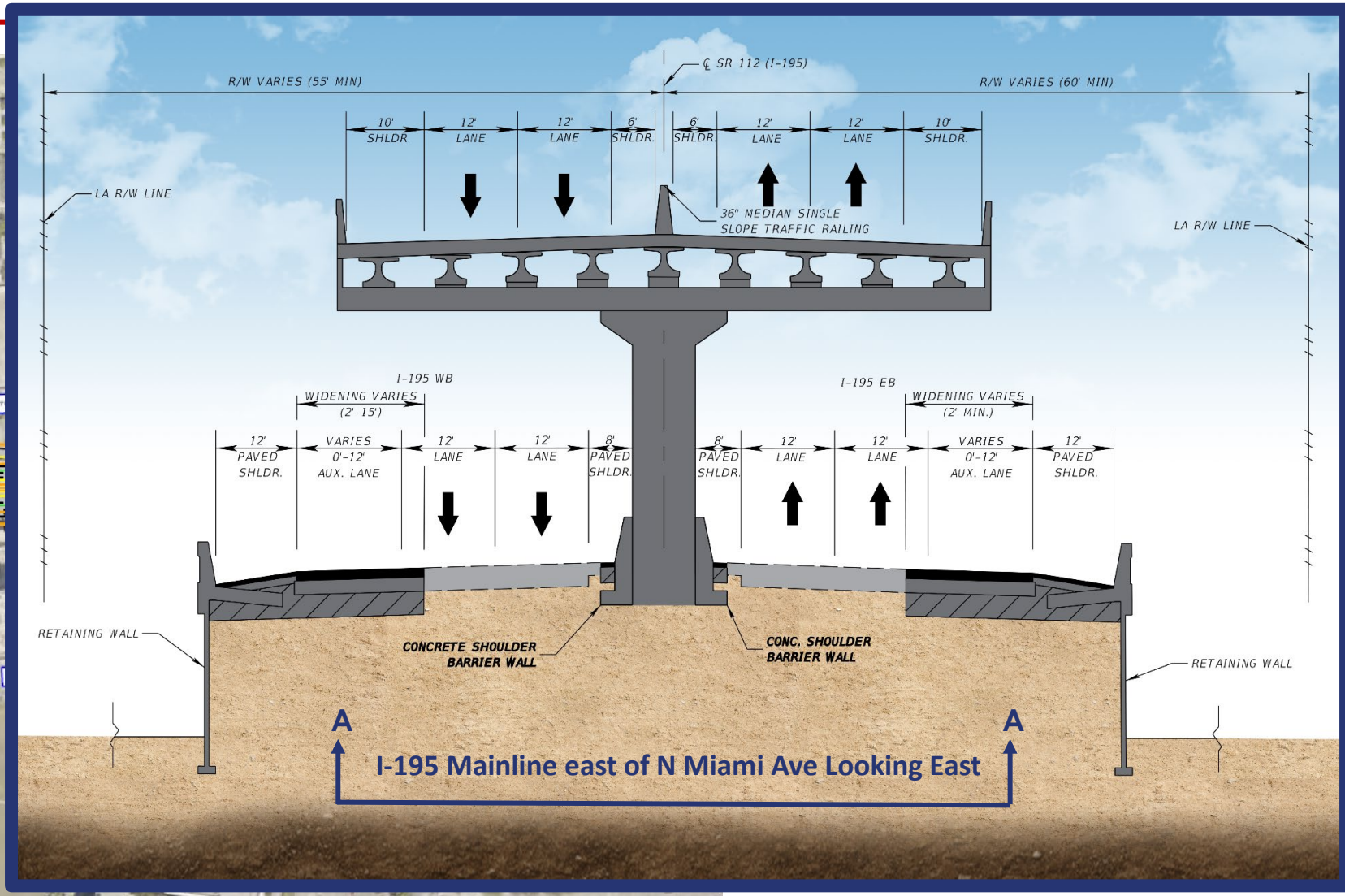
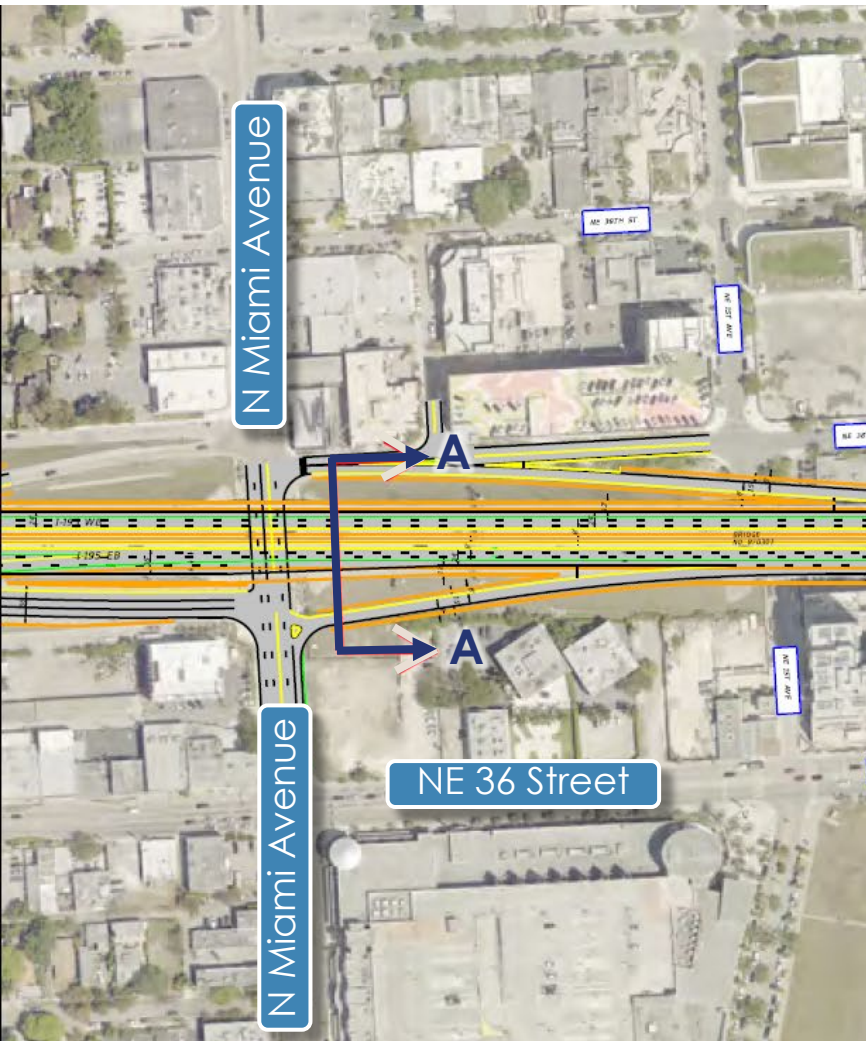
System Improvements

- 1 Four-lane viaduct
- 2 Connections to/from I-95 General Purpose and Express Lanes
- 3 Widens Julia Tuttle Causeway
- 4 Provides full interchange at North Miami Avenue

Additional Improvements

- 5 Shared-Use Path along the Causeway to SR 907/Alton Road
- 6 Widens SR 112
- 7 Intersection improvements ramp terminals
- 8 Widening of on and off ramps
- 9 I-195 westbound Connector-Distributor Road

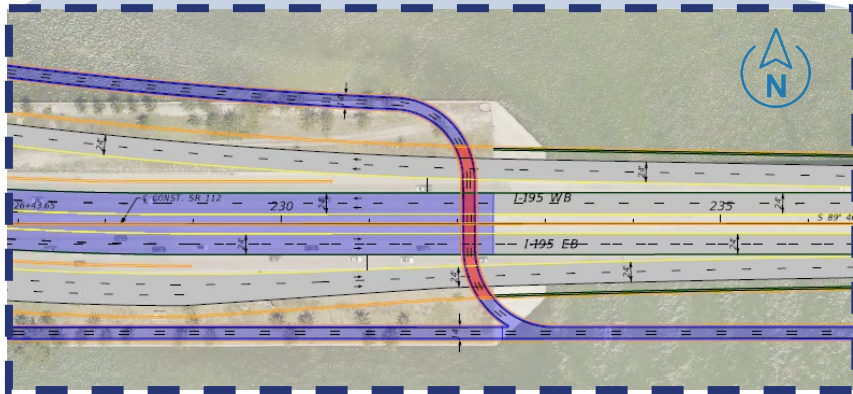
Previous Findings - Viaduct



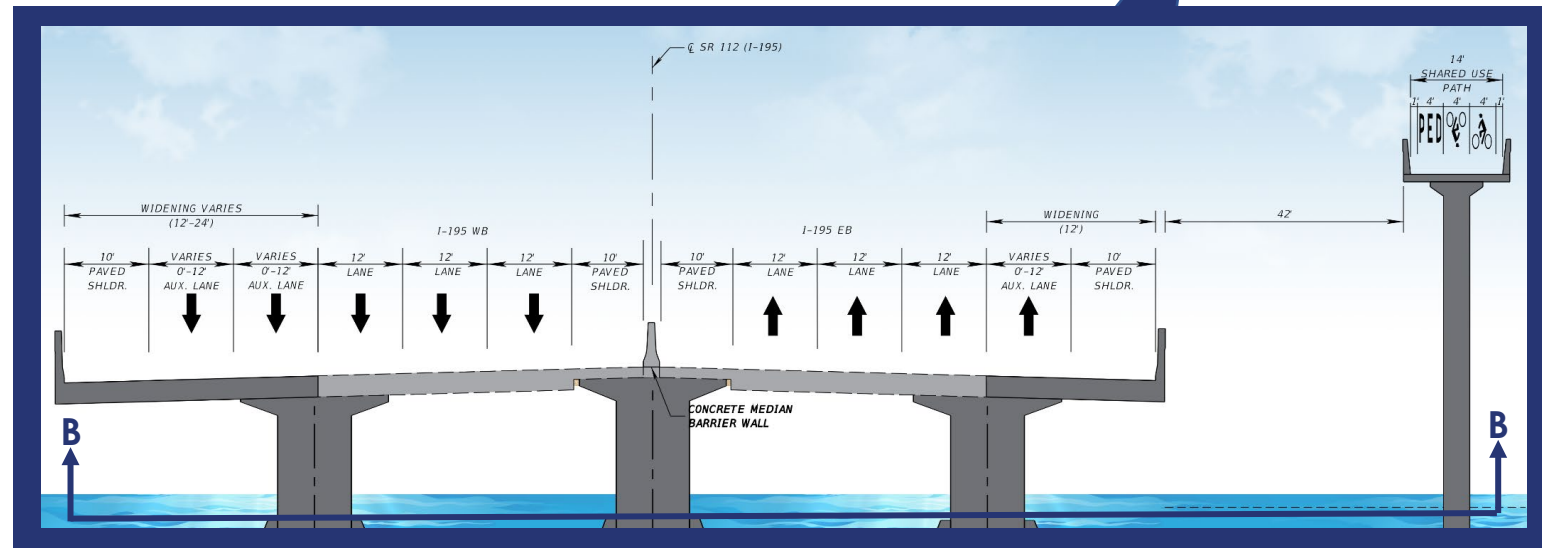
Previous Findings – Shared Use Path



Alternative A



Typical Section



Bicycle & Pedestrian Improvements

1. Separated Shared Use Path
2. Connects to existing shared use path along Southbound Alton Road
3. New Shared Use Path North of Mount Sinai Medical Center
4. Evaluate providing connection underneath Julia Tuttle Causeway

Previous Findings – Surface Street Improvements

Potential Surface Street Improvements

1. NW 12 Avenue Texas U-Turn
2. Biscayne Boulevard Interchange
 1. Connector-Distributor (CD) Road Direct Flyovers
3. CD-Road System with Texas U-Turns
4. NW 36 Street



CPS Previous Project Advisory Team Feedback

- City of Miami
 - Concerns regarding pedestrian safety at ramp terminal improvements
 - Request for potential allocation of the area south of NE 38 Street between the on-ramp and Biscayne Boulevard
 - Coordinate intersection improvements with ongoing Miami-Dade County projects (i.e. eliminating southbound NE 2 Avenue at NE 36 Street)
 - Concerns of causing additional congestion on North Miami Avenue with full interchange. Suggested diverting traffic to NE 1 Avenue
 - Concerned if emergency vehicles would be able to access separated bike/ped structure
 - Concerns of social impacts

2020 CPS Project Advisory Team Meetings

- CPS PAT#1: Wednesday, May 23, 2018
- CPS PAT#2: Wednesday, December 5, 2018
- CPS PAT#3: Wednesday, October 9, 2019
- CPS PAT#4: Wednesday, June 3, 2020



we are here!

Engineering

- Traffic/Interchange Access Report (IAR)
- Re-evaluate corridor study findings
- Develop alternatives as needed
- Engineering Analysis

Environment

- Biscayne Bay
- Section 4(f)
- Noise
- Historic resources
- Social impacts

Documentation

- Type II Categorical Exclusion
- Systems Interchange Modification Report (SIMR)
- Preliminary Engineering Report
- Phased Improvements
- Future Cost Estimate

Public Involvement

- Public Meetings (Kick Off, Alternatives Workshop, Public Hearing)
- Project Advisory Team
- Community Advisory Group
- Stakeholder/Small Group Meetings
- Elected and agency official coordination



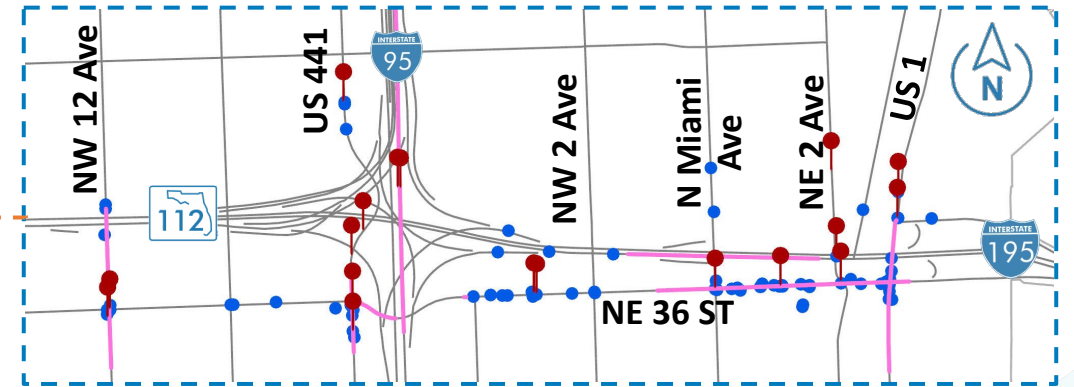
Safety

Crash Data

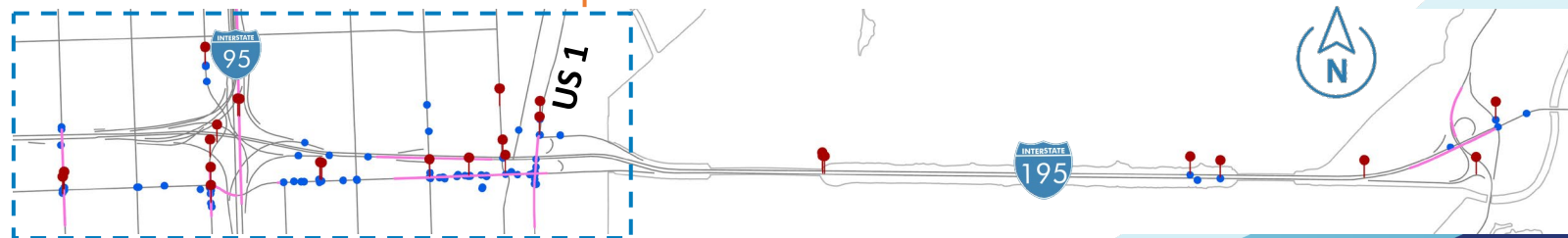
- 3,461 Total 5-Year Crashes (2015-2019)
- FDOT High Crash List
 - Number of Segments: 7
 - Number of Spots: 37

Safety Analysis

- Safety Analysis Guidebook for PD&E Studies
- Quantitative Safety Analysis per Interchange Access Request User Guide (IARUG)
- Target Zero
- Phased Improvements

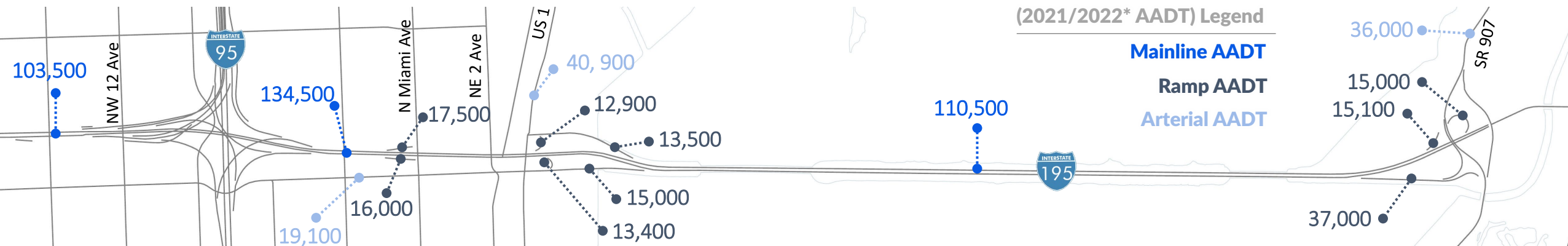


- Legend
- Pedestrian/Bicycle Crashes ●
 - High Crash Segment —
 - Fatal Crash ●



Next Steps: Traffic

- Traffic Data Collected Fall-Winter 2022
- Analysis Of:
 - I-195 Mainline Improvements
 - Operational (Queue, weaving, congestion issues)
 - Multimodal Improvements
 - Interchange Improvements
 - I-195 Access
 - I-95 Express Lane Access
 - Operations
 - Surface Street Operational Improvements
- Systems Interchange Modification Report (SIMR)

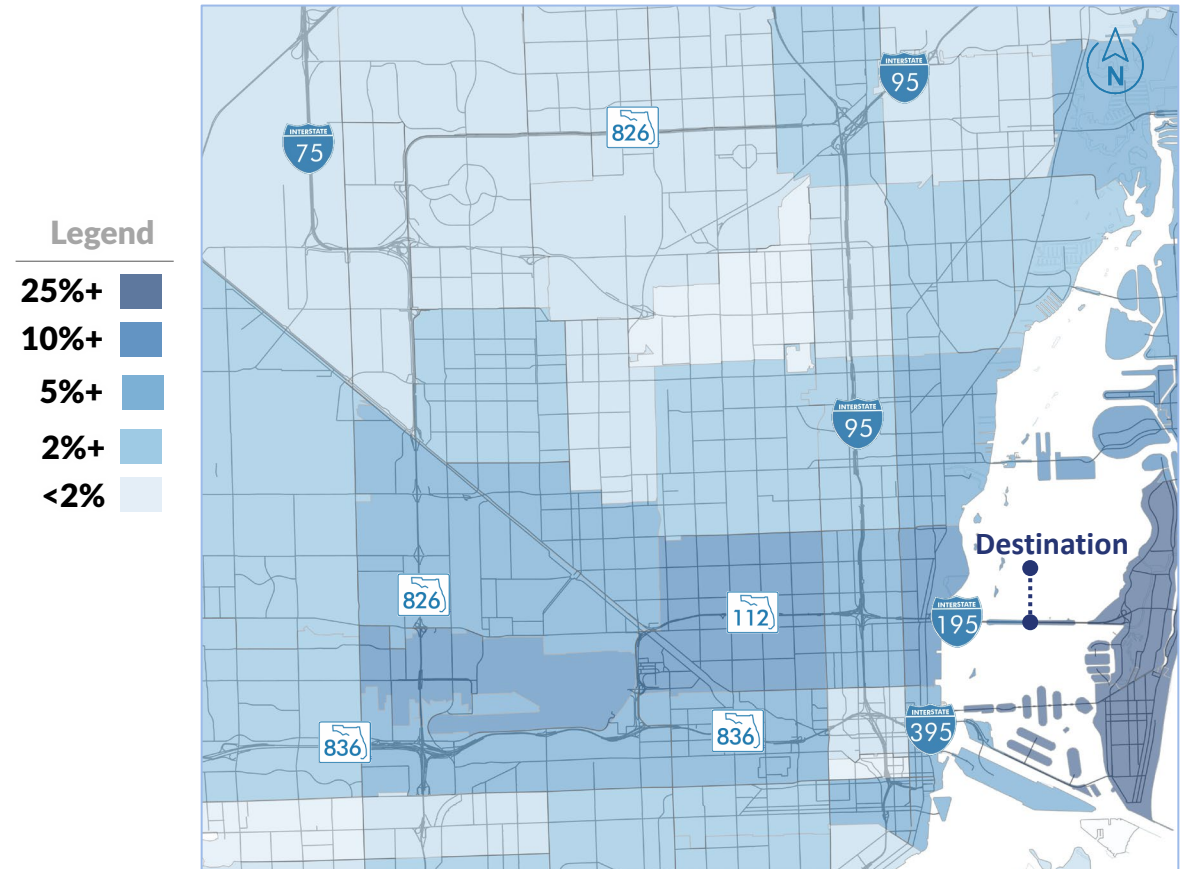


*Florida Traffic Online 2021 and Fall/Winter Data Collection in 2022

Next Steps: Traffic Forecasting

- Travel Demand Model
 - 2015/2045 SERPM 8.522
- Base Year 2015 Scenario Update and Calibration
- Traffic Operational Analysis
 - Existing: 2022
 - Opening Year: 2030
 - Design Year: 2050

Gradient/Heat Map - Origin Zip Code to I-195 (Destination)



Source: Wejo Connected Vehicles Data

Next Steps: Alternatives Development

No Build – Assumes no improvements are made and does not address any of corridor needs

Transportation Systems Management and Operations (TSM&O)

Build Alternatives

PD&E Alternatives will build off the Corridor Planning Study Refined Build Concept and will evaluate:

1. Direct Connections to the I-95 Express Lanes
2. Interchange Improvements
 - NW 12 Avenue
 - N Miami Avenue
 - Biscayne Boulevard
 - SR 907/ Alton Road
3. Surface Street Improvements
4. Multimodal
 - Enhance transit opportunities
 - Dedicated pedestrian and bicycle facilities



**CAG Meeting #2 after
Alternatives Development**

Next Steps: Engineering Considerations

Drainage

- Stormwater runoff flows into Biscayne Bay Aquatic Preserve (Outstanding Florida Water)(OFW))
- Maximize water quality treatment capacity within existing right-of-way
- Consider resiliency initiatives
- Coordination with City of Miami, City of Miami Beach, Miami-Dade County

Structures

- I-95 Interchange
- Causeway
- Interchanges
- Mainline Bridges

Cost Estimates

Right-of-Way

Project Phasing

- Identify short- and long-term improvements



Next Steps: Environment

Biscayne Bay

- Aquatic Preserve
- Critical Habitat for Manatee
- Outstanding Florida Water (50% greater treatment)

Essential Fish Habitat

- Seagrass, Corals, Mangroves and many other types
- Habitat Areas of Particular Concern
- In-water surveys conducted in September
 - Seagrass coverage was observed throughout the survey area
 - Areas beneath bridges are general sandy and barren
 - Healthiest seagrass locations protected from main flushing/ navigational channels (near Milton Park and Alton Rd)



U.S. Fish and Wildlife Services Consultation Areas

- Manatee
- Florida Bonneted Bat potential habitat characterization
- Snail Kite, Piping Plover, Crocodile and Atlantic Coastal Plants

Water Quality

- Biscayne Sole Source Aquifer

Next Steps: Environment

Recreational Section 4(f)

- Moore Park

Special Populations

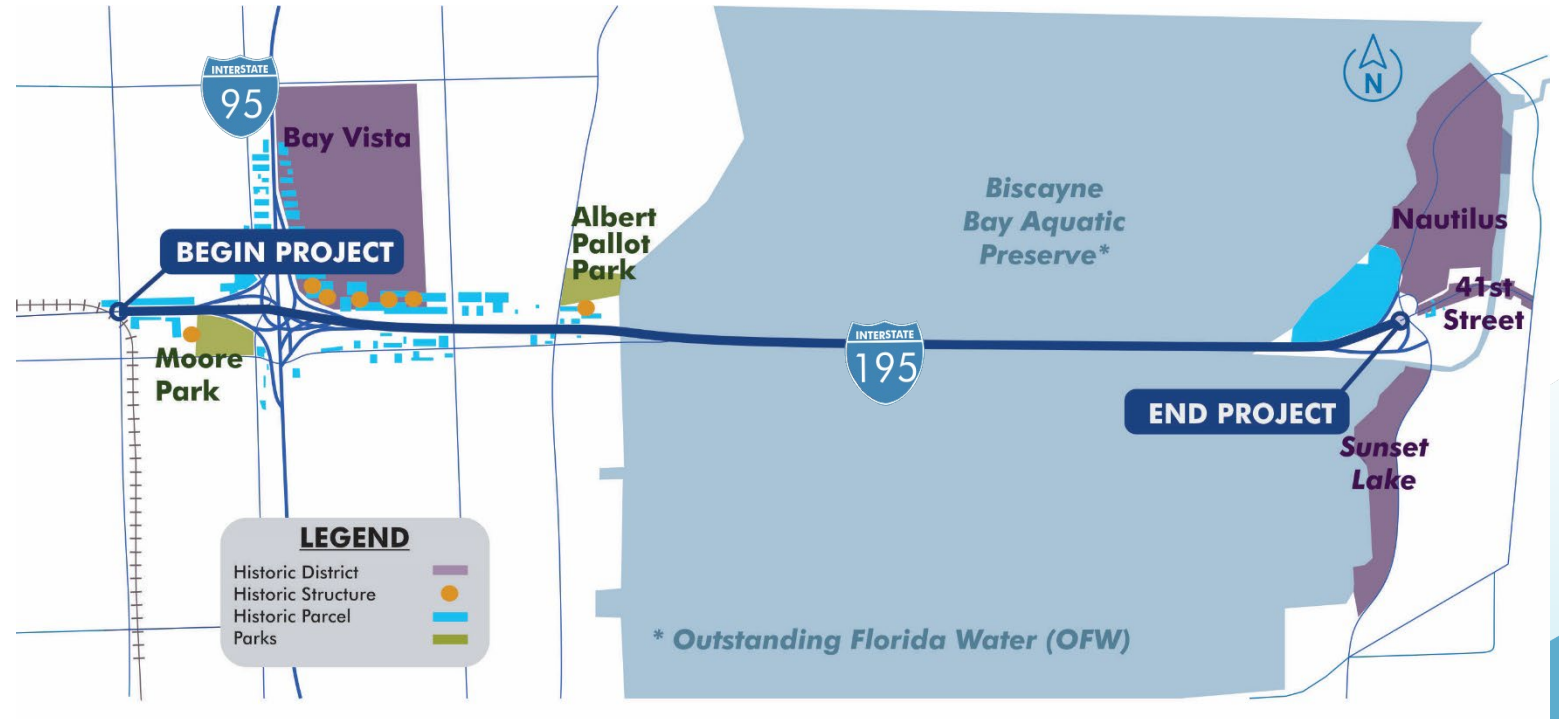
- 21% below poverty line
- 84% minority

Community

- Adjacent residential and business land uses

Cultural Resources

- Historic Districts
 - The Bay Vista
 - Nautilus
 - Sunset Lake
 - 41st Street
- Historic resources
 - 6+ individually significant resources
 - 170 previously recorded historic resources, 800+ unrecorded historic resources



Next Steps: Environment



Noise

- Two existing noise barriers
- Multiple sensitive noise sites
 - High rise residential
 - Low density residential
 - Recreational resources
- Evaluate noise impacts from the project and determine if additional noise abatement is warranted
- Evaluate potential construction noise and vibration impacts

Resiliency

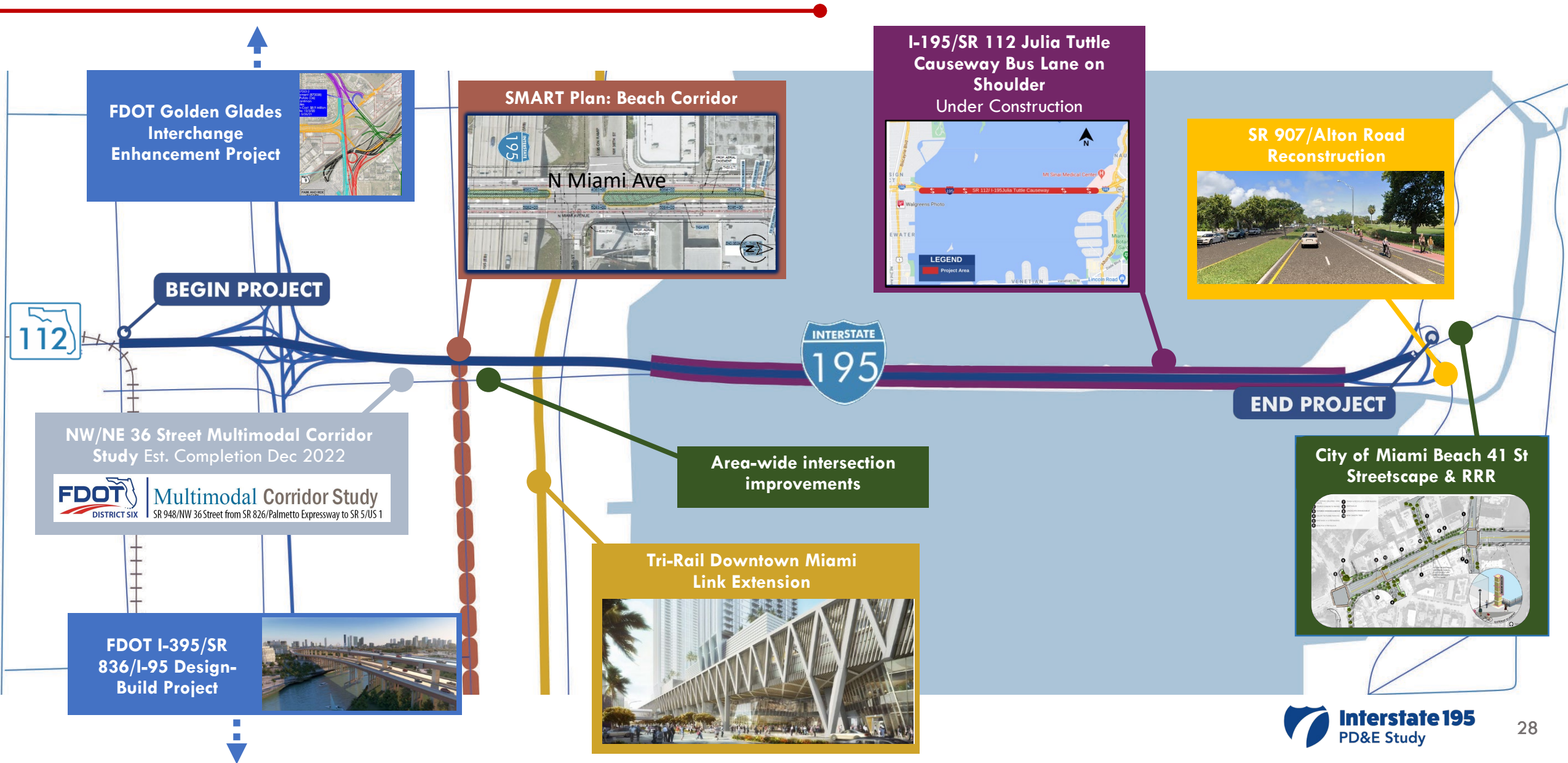
Coordination with ongoing resiliency projects and goals for the area

- US Army Corps of Engineers (USACOE)
 - Miami-Dade Back Bay Coastal Storm Risk Management Study
 - Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
 - Central and Southern Florida (C&SF) System Section 216 Flood Resiliency Study (with SFWMD)
- City of Miami Beach
- City of Miami
- Miami-Dade County
 - Chief Bay Officer
 - Biscayne Bay Watershed Management Advisory Board
- Biscayne Bay Commission



- **Historical estuary**
- **Largest estuary in Florida**
- **Only large, subtropical, protected bay within continental U.S.**

Coordination





Next Steps

- Traffic Modeling and Analysis
- Alternatives Development
- Next CAG/PAT Meeting after alternatives are developed
- Alternatives Public Information Meeting (1st Quarter 2024)

Contact Us

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<https://www.fdotmiamidade.com/i195pdestudy.html>



Interstate 195 PD&E Study

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Thank you!

