



SR 948/NW 36 STREET FROM SR 826/PALMETTO EXPRESSWAY TO SR 5/US 1

MULTIMODAL CORRIDOR STUDY

FM NO. 436426-1-12-01

Project Advisory Team (PAT) Meeting

Wednesday, September 23, 2020 – 10:00 AM





Meet our Team



FDOT PROJECT MANAGER
Carlos Castro



CONSULTANT PROJECT MANAGER
Daphne Spanos, PE
Prime: EXP U.S. Services Inc.



COMMUNITY OUTREACH SPECIALIST
Maria Alzate
ISC Group

Subconsultants

- CDM Smith
- CH Perez & Associates
- CTS Engineering
- ISC Group
- Lochner
- IF Rooks
- Janus Research
- Metro Consulting Group
- Tindale Oliver
- PE Engineering



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Title VI of the Civil Rights Act of 1964

This meeting is being held without regard to race, color, national origin, age, sex, religion, disability, or family status.

For questions or concerns, you may contact either:

District Six

Florida Department of Transportation

Title VI Coordinator

Irene Varela

1000 NW 111 Avenue

Miami, Florida 33172

(350) 470-5342

Irene.Varela@dot.state.fl.us

Tallahassee Office

Florida Department of Transportation

State Title VI Coordinator

Jacqueline Paramore

605 Suwannee Street, MS 65

Tallahassee, Florida 32399

(850) 414-4753

Jacqueline.Paramore@dot.state.fl.us



Rules of Engagement

To ask a question or make a comment:

- All attendees are in **listen only mode** and will be unmuted during open discussion. Please select the **Raise Hand Feature** to be recognized.
- Questions or comments can be provided through the **Question Box**. All questions and comments are recorded and will be answered via e-mail if time runs out during the session.
- If you need **technical support**, please contact Miranda Brito at (786) 537-3363. You can **phone** in by calling +1 (213) 929-4231 and type in access code: (653) 316-870. An Audio Pin number will be shown to finish your entry.

RAISE
HAND
→

QUESTION
BOX
→

A screenshot of the GoToWebinar interface. The top part shows the 'Audio' settings panel with options for 'Computer audio', 'Phone call', and 'No audio'. Below that is a 'Questions' section with a text input field containing the placeholder '[Enter a question for staff]' and a 'Send' button. At the bottom, there is a 'Control Panel' section showing 'Webinar ID: 809-804-275' and a red dot indicating 'This session is being recorded.' The GoToWebinar logo is at the bottom right. Red arrows point from the text labels 'RAISE HAND' and 'QUESTION BOX' to the 'Raise Hand' icon and the 'Questions' section respectively.



Meeting Agenda

Welcome!

- Introductions Project Advisory Team (PAT)
- Purpose of the PAT
- Project Location Map
- Study Purpose
- Previous Studies and Current Efforts
- Multimodal Connections
- Purpose and Need
- Existing Conditions
- Traffic Data Collection
- Roadway – Existing Typical Sections
- Transit and Bicycle/Pedestrian
- Crash Data
- Environmental and Historic Resources
- Public Involvement
- Project Schedule





Project Advisory Team (PAT)

Welcome Representatives of...

- Miami-Dade Expressway Authority (MDX)
- Miami-Dade County Aviation Department
- Miami-Dade County Department of Transportation and Public Works (DTPW)
- Planning and Environmental Management Office (PLEMO)
- FDOT Roadway Design Office
- FDOT Traffic Operations Office
- South Florida Regional Transportation Authority (SFRTA)
- CSX Transportation
- Florida East Coast (FEC) Railway
- Florida Trucking Association (FTA)
- Miami-Dade Transportation Planning Organization (TPO)
- Freight Transportation Advisory Committee (FTAC)
- City of Doral
- Village of Virginia Gardens
- City of Hialeah
- Town of Medley
- City of Miami
- City of Miami Springs
- Florida Highway Patrol

Purpose of the PAT

The following is to encourage...



PARTICIPATION



SEEKING ADVICE



**SHARING
QUESTIONS OR
CONCERNS**

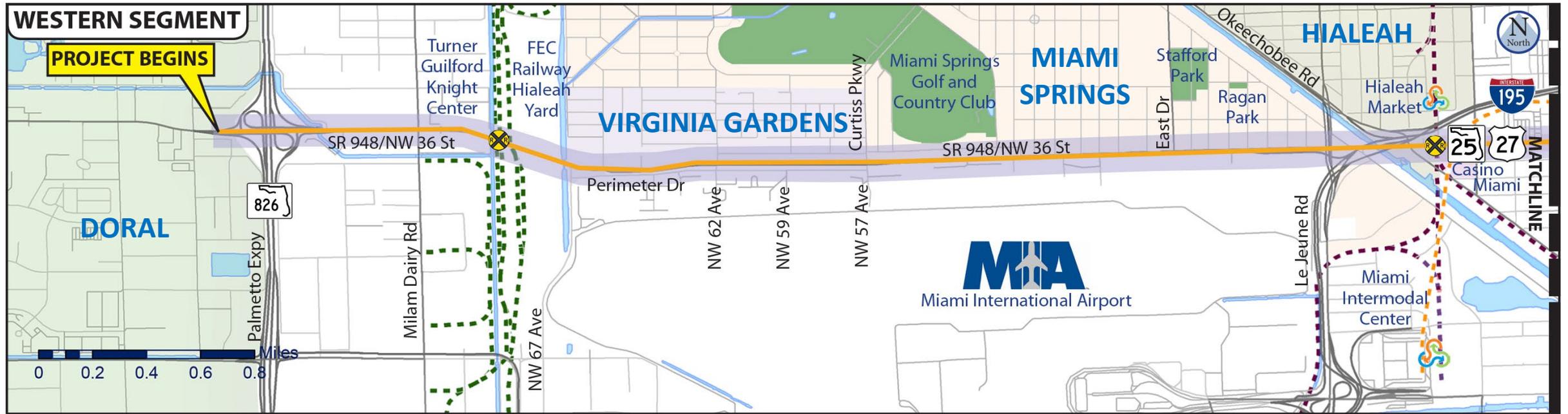


**WORKING TOGETHER FOR
A SUCCESSFUL PROJECT**



Project Location Map

The Study area is 8.6 miles long from SR 826/Palmetto Expressway to SR 5/US 1



LEGEND					
	Railroad Crossings		Florida East Coast Railway		City of Doral
	South Florida Rail Corridor		Metrorail System		City of Hialeah
			Village of Virginia Gardens		City of Miami Springs
			City of Miami		Unincorporated
			Project Study Area		

Project Location Map



LEGEND					
	Railroad Crossings		Florida East Coast Railway		City of Doral
	South Florida Rail Corridor		Metrorail System		City of Hialeah
	City of Miami Springs		Village of Virginia Gardens		City of Miami
	Project Study Area		Unincorporated		

Study Purpose

The goals of this study are to:



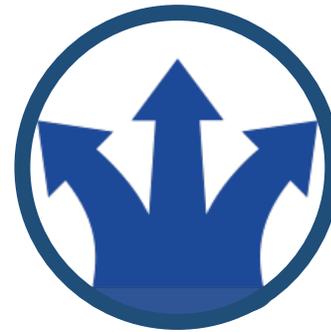
Evaluate
existing
conditions



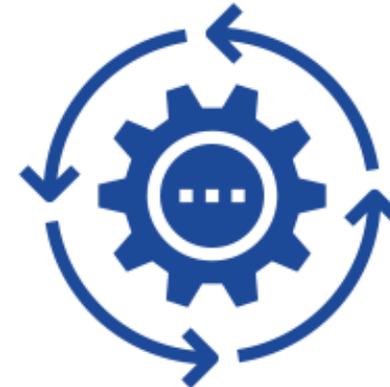
Conduct
public and
Intergovernmental
coordination



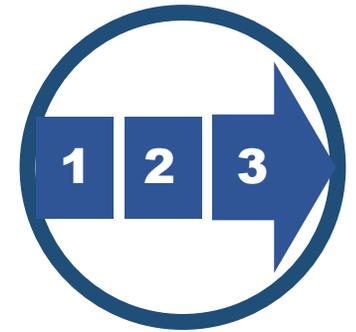
Forecast
future
needs



Develop
alternative
improvements



Recommend
appropriate
improvements

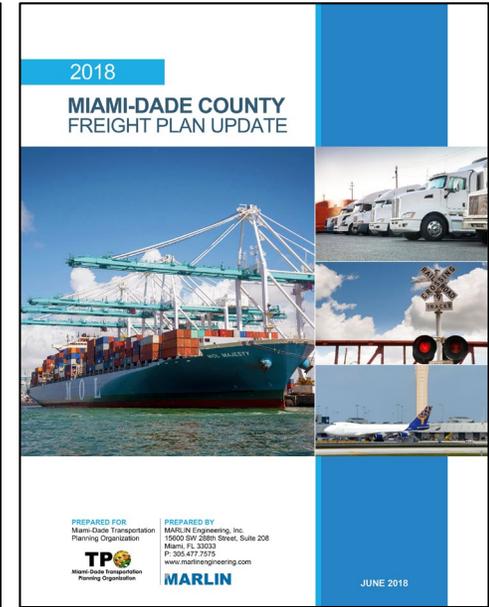
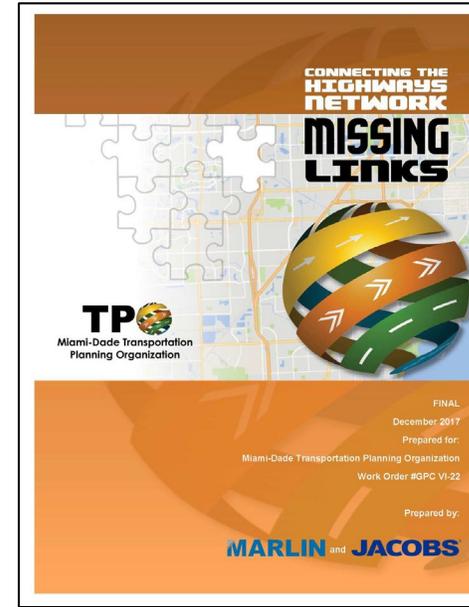
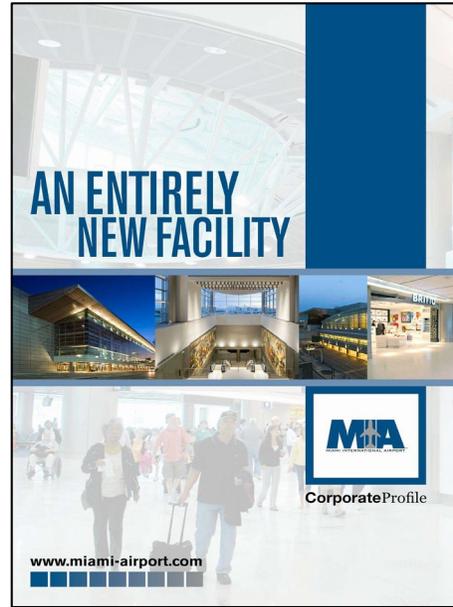
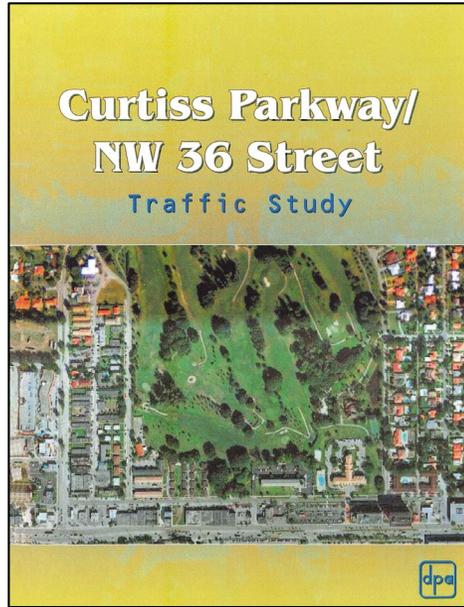
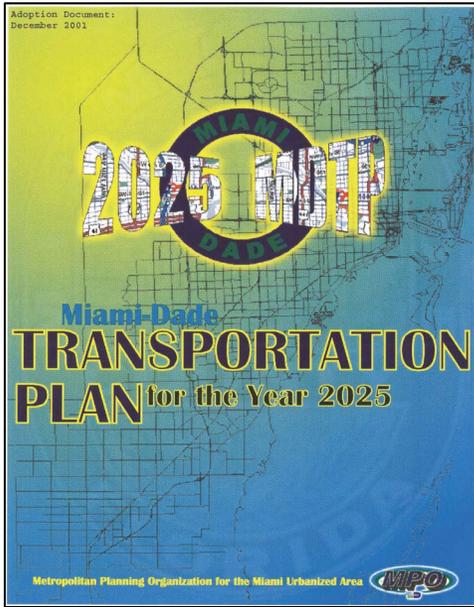


Move into
Subsequent
phases



Previous Studies

Include the following:



2001
Miami-Dade Transportation
Plan for the Year 2025

2009
Curtiss Parkway/NW 36
Street

2011
MIA – An Entire New
Facility

2017
Connecting the Highway
Missing Links

2018
Miami-Dade Freight Plan

INTERMODAL



FREIGHT



RAIL



AVIATION

MULTIMODAL



TRANSIT



BICYCLISTS

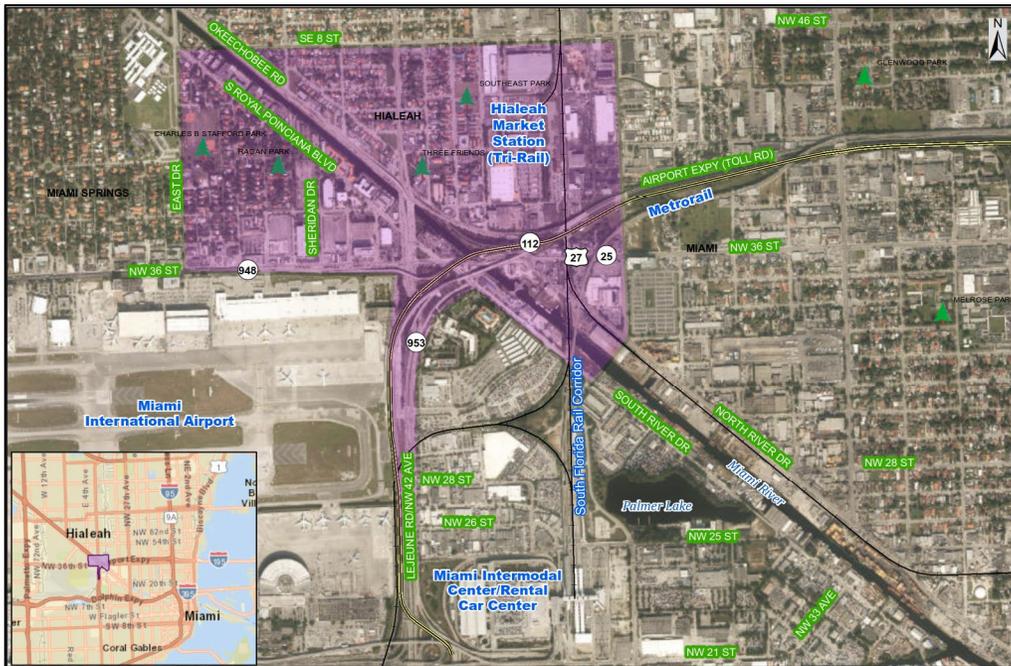


PEDESTRIANS



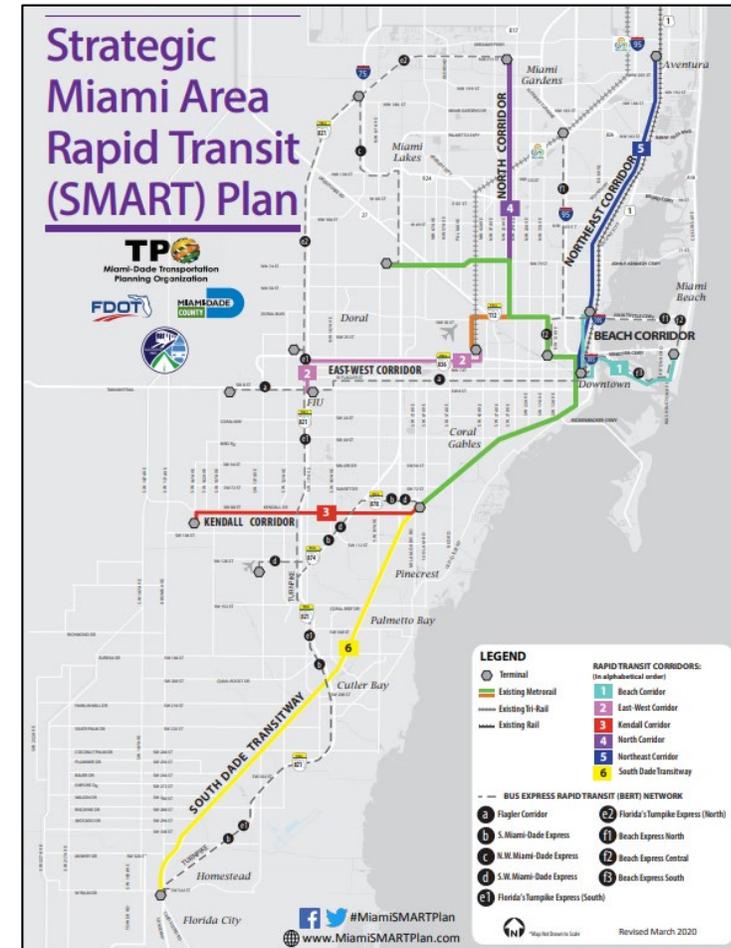
VEHICLES

Include the following:



Iron Triangle Interchange Study

FDOT Iron Triangle – Urban Interchange Mobility Planning Study (FM# 438521-1-12-01) SR 953/NW 42 Avenue with SR 948 / NW 36 Street and SR 25/Okeechobee Road

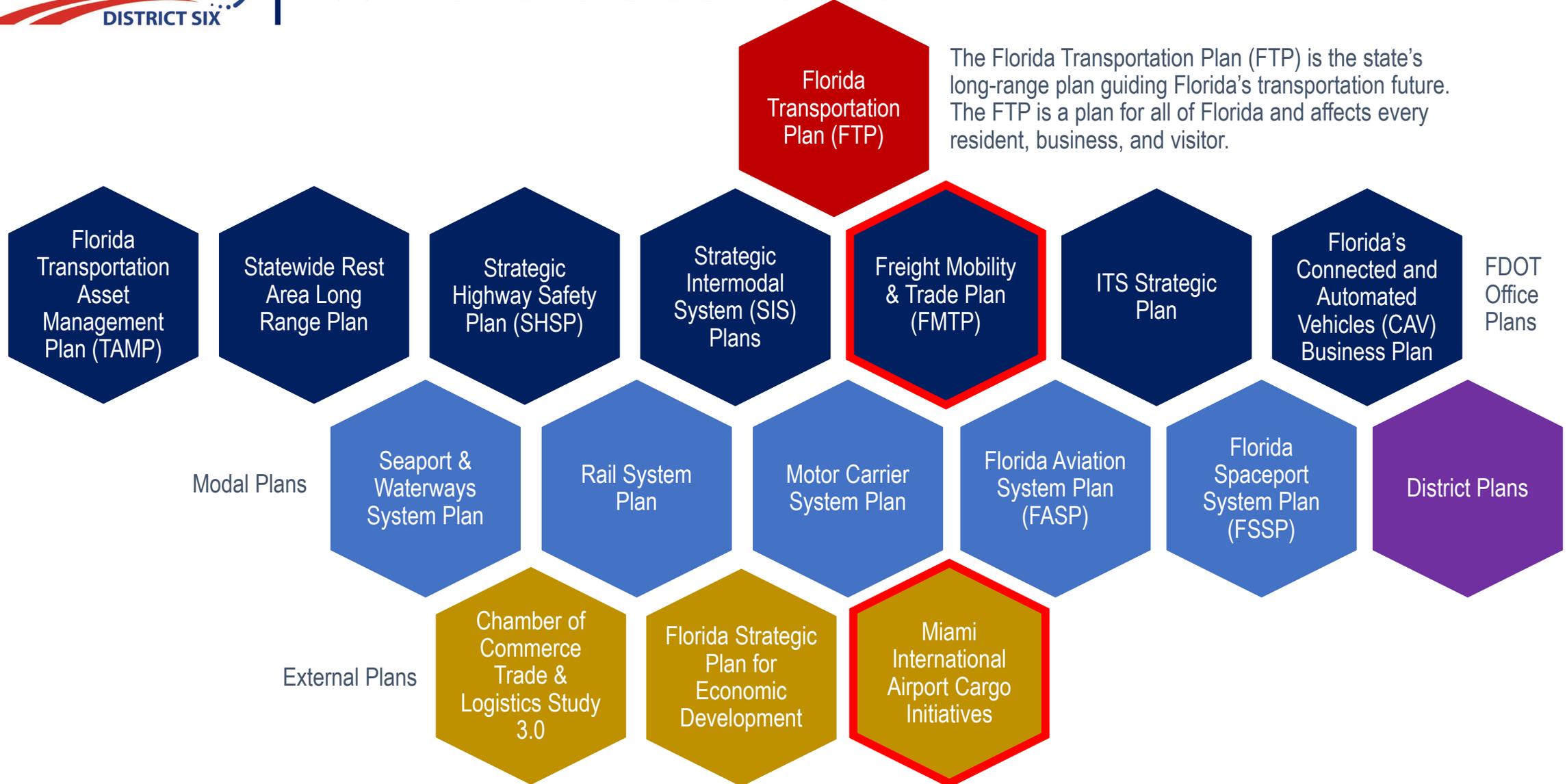


Strategic Miami Area Rapid Transit (SMART) Plan

Intends to advance six of the SMART Plan’s rapid transit corridors to implement transit projects in Miami-Dade County.

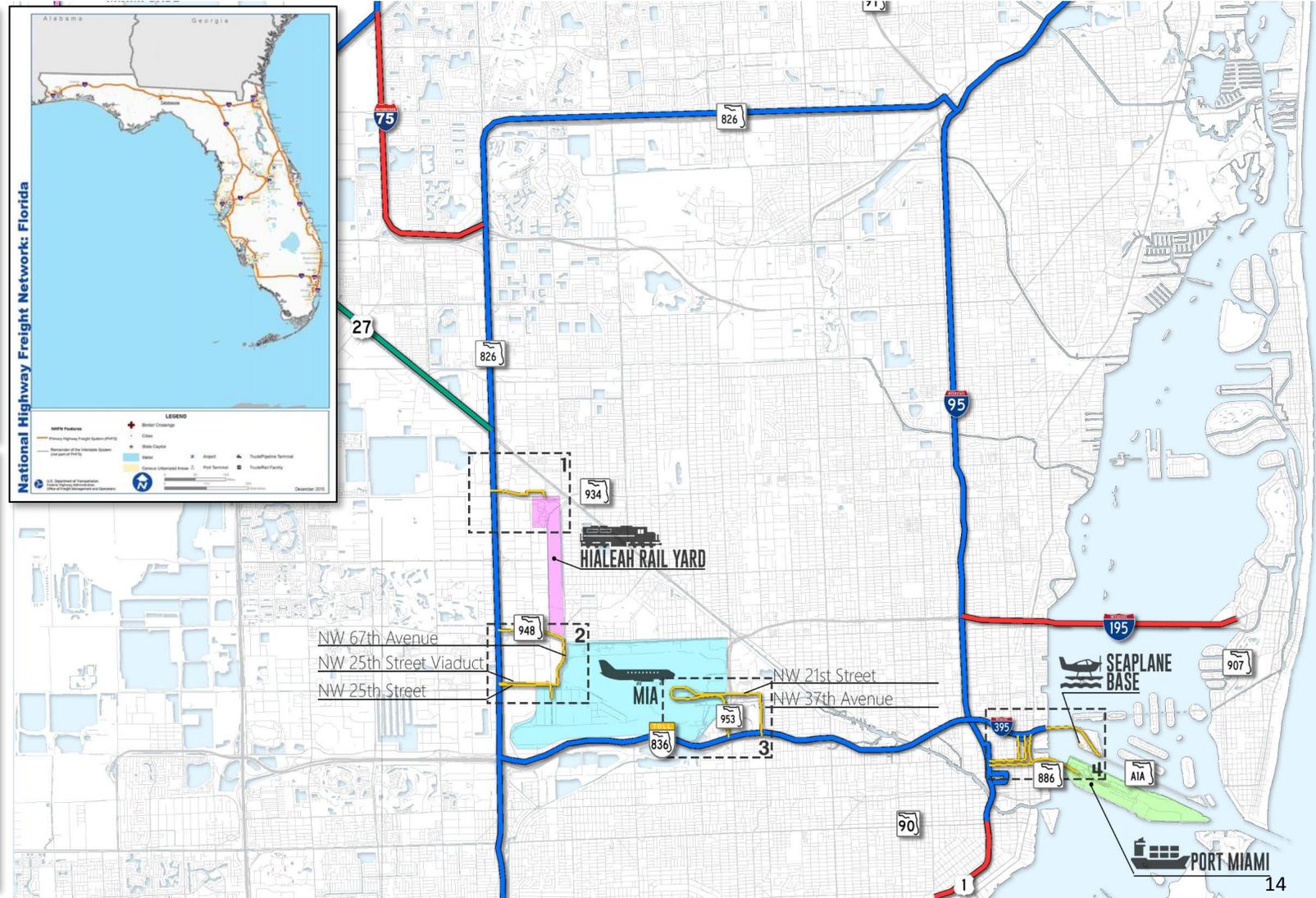
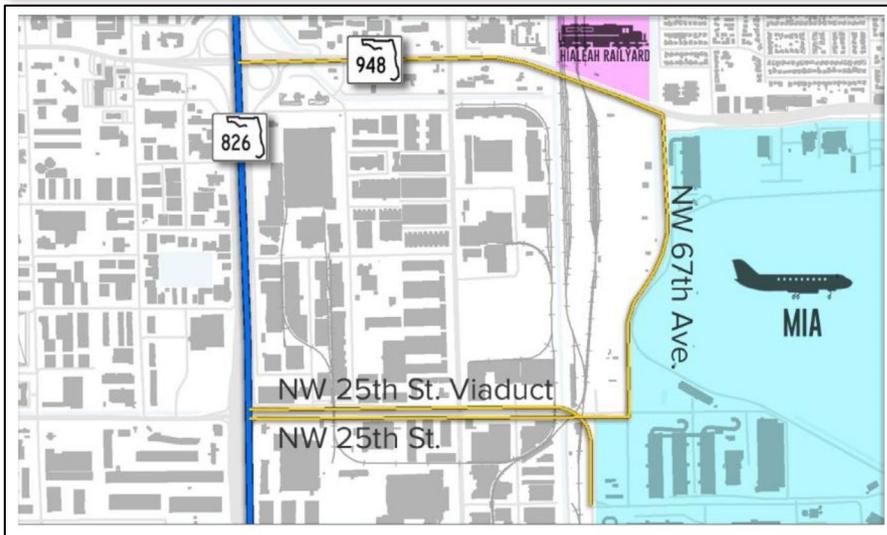


Where does it fit?





Miami-Dade National Highway Freight Network



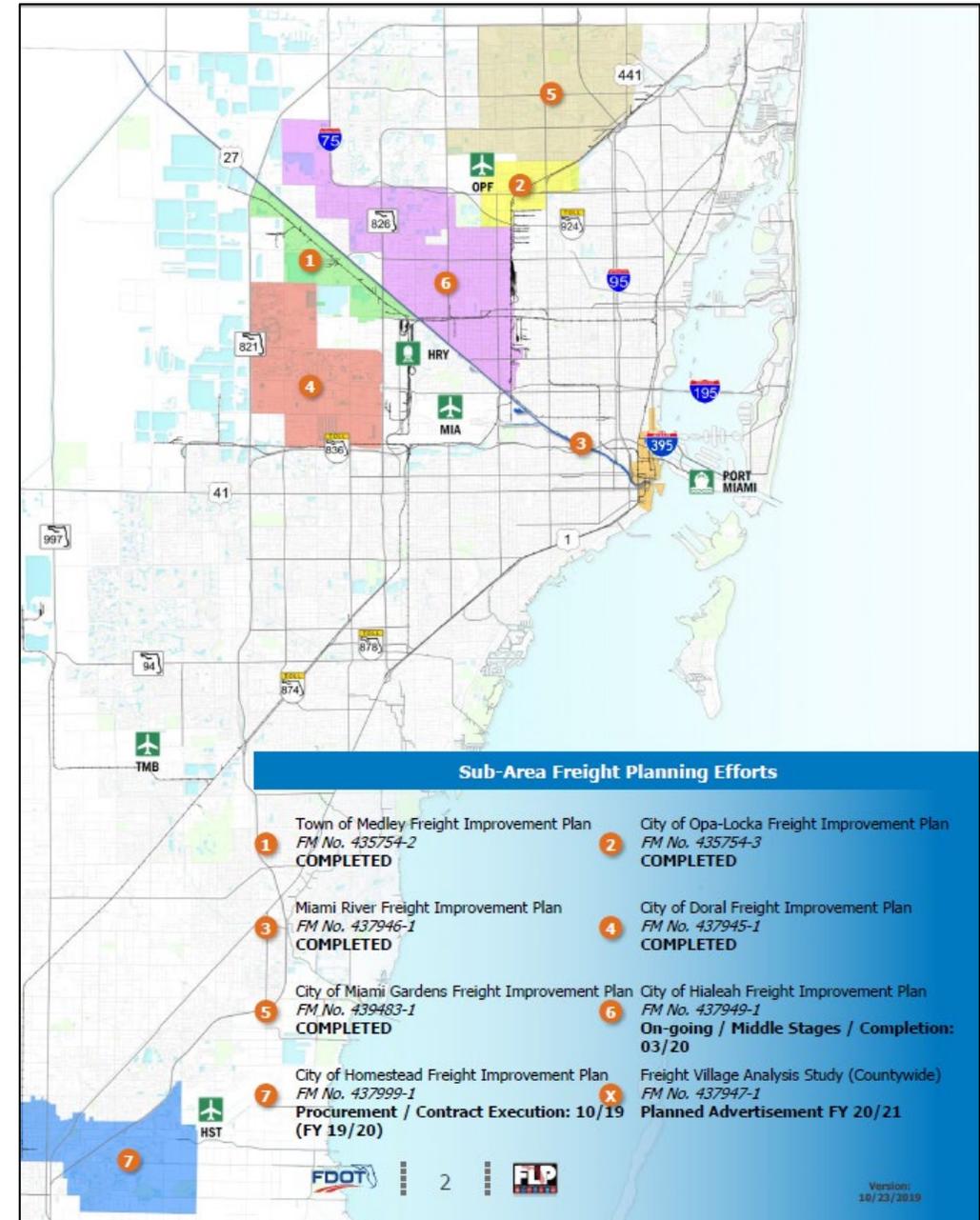


District Six

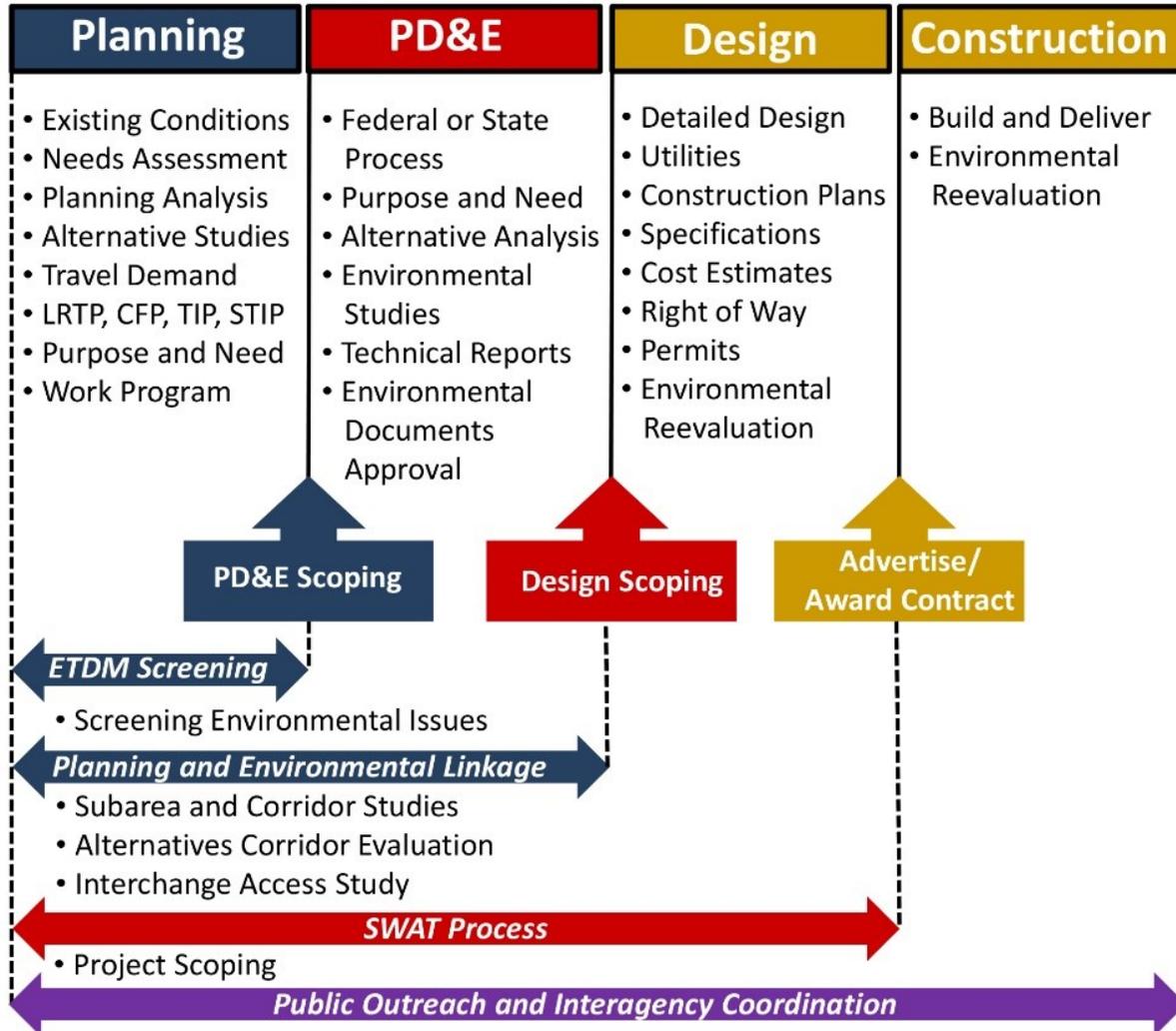
Sub-Area Freight Efforts

FDOT District Six Sub-Area Freight efforts target key State Freight Facilities and International Trade Gateways such as Miami International Airport and PortMiami to target the expansion of Panama Canal and overall increase in Cargo Activity:

1. Medley Freight Movement
2. Opa-Locka Freight Improvement Plan
3. Miami River Freight Improvement Plan
4. Doral Freight Improvement Plan
5. Miami Gardens Freight Improvement Plan
6. Hialeah Freight Improvement Plan
7. Homestead Freight Improvement Plan
- X. Countywide Freight Plan



Transportation Project Delivery



Purpose and Need

Improve and promote the following:



Safety
objectives



Mobility
efficiency



Economic
prosperity



Freight
mobility



Multimodal
access



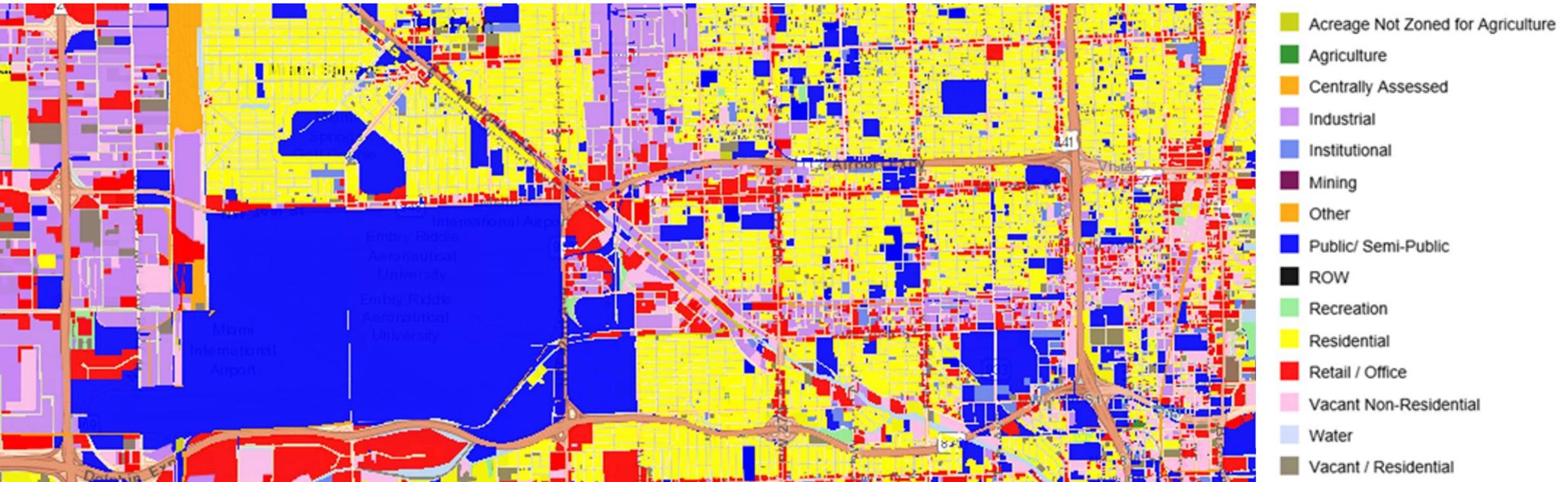
Environmental
protection

Performance Measures of Effectiveness

Goals, Objectives and Data Source for Assessment will be applied to Selected Performance Measures:

CORRIDOR GOALS	OBJECTIVES	PERFORMANCE MEASURES	DIRECT AND INDIRECT DATA SOURCE AND ANALYSIS
 <p>Improve Safety</p>	<p>Reduce accident rates for collisions, injuries, and fatalities</p>	Number of fatalities	<p>Crash Data DTPW Transit Incidents</p>
		Number of serious injuries	
		Rate of fatalities – total number of fatalities/100 million Vehicular Miles Traveled (VMT)	
		Number of bicycle and pedestrian collisions – crash rate	
	Reduce Incidents	Transit incidents	
 <p>Improve Mobility System Reliability</p>	<p>Reduce non-recurrent congestion</p>	Percent of Travel Meeting Level of Service (LOS) criteria	<p>VISSIM, SERPM 8, HCS, SYNCHRO outputs</p>
		Percent of Miles meeting Level of Service (LOS) criteria	
		Travel Speed	
		Volume to Capacity Ratio – V/C Ratio	

Existing Land Use



0 1 2 Miles





Context Classification

ROAD SYMBOLS		OTHER SYMBOLS	
	C1 - Natural		State Roads
	C2 - Rural		Street Network
	C2T - Rural Town		Interstate Road Shield
	C3R - Suburban Residential		US Road Shield
	C3C - Suburban Commercial		State Road Shield
	C4 - Urban General		Toll Road Shield
	C5 - Urban Center		Florida's Turnpike Shield
	C6 - Urban Core		County Boundary
			Lakes
			Airports and Places of Interest
			Parks
			Adjacent Counties





Traffic Data Collection



72-Hour Bi-Directional Machine Counts with Vehicle Classification includes 19 roadway segments



6-Hour Turning Movement Counts (TMCs) that includes 45 signalized intersections and 27 unsignalized intersections



Queue Length includes 30 selected signalized intersections for east-west movements only



Travel Time and Delays includes 6 total vehicle runs for each peak period



Origin-Destination (OD) includes Streetlight Data along the corridor



Transit Routes and Operations include frequency, hours of operations, stop locations, type of vehicles, and ridership



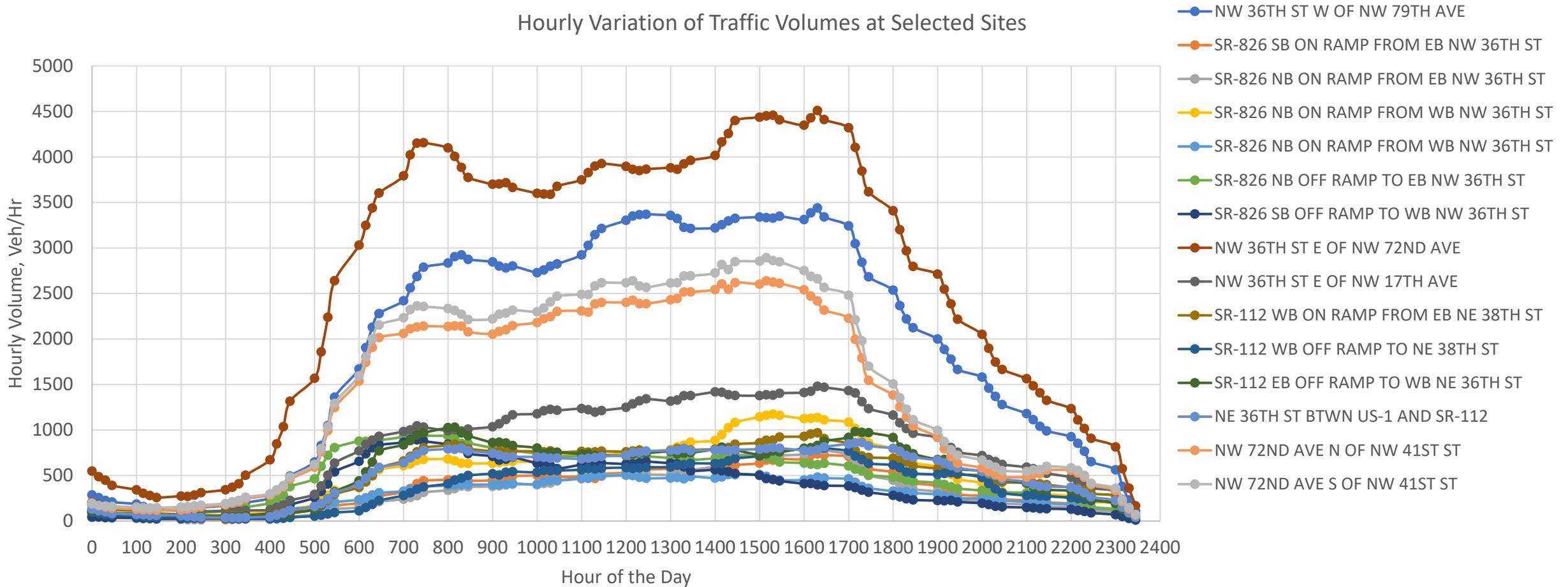
Historical Data and Data Collected from recent studies along the corridor



Hourly Variation

Peak Hours 7:30 A.M. to 10:30 A.M. and 3:30 P.M. to 6:30 P.M.

Hourly Variation of Traffic Volumes at Selected Sites



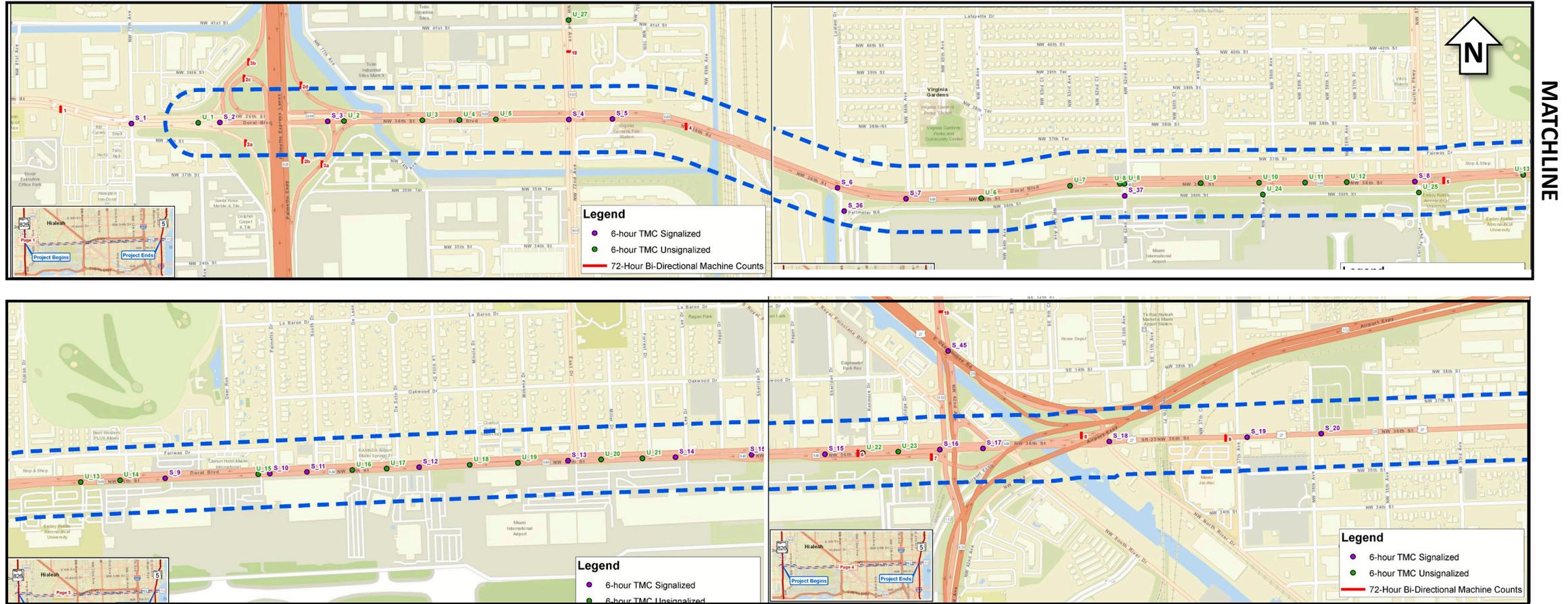


Traffic Count Locations

LEGEND

- 6-hour TMC Signalized
- 6-hour TMC Unsignalized
- ▬ 72-Hour Bi-Directional Machine Counts

Western Segment:



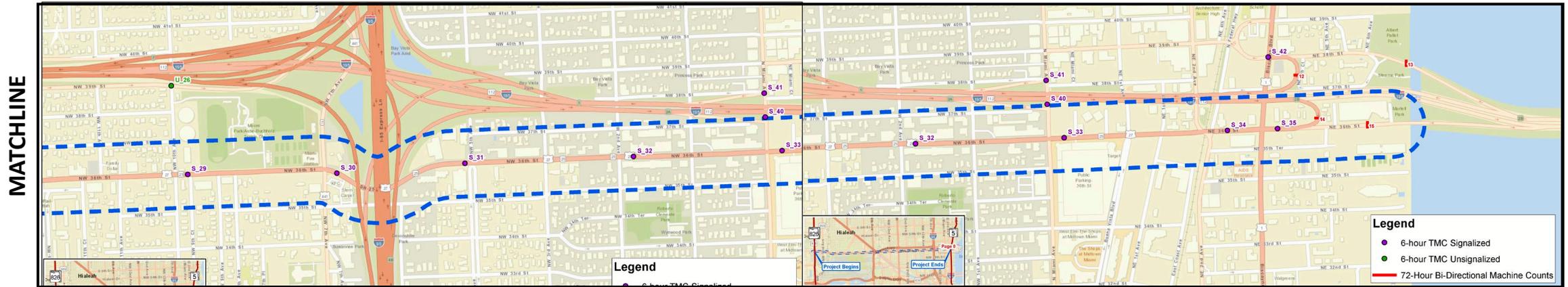
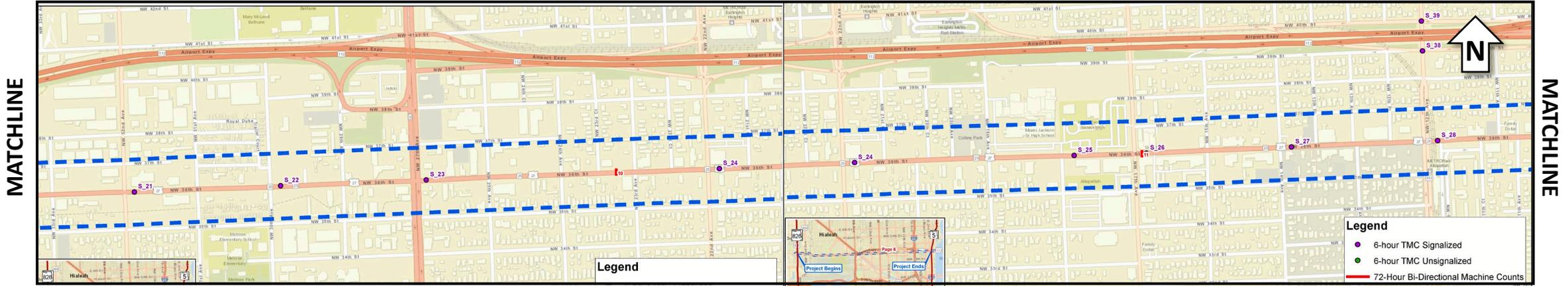


Traffic Count Locations

LEGEND

- 6-hour TMC Signalized
- 6-hour TMC Unsignalized
- 72-Hour Bi-Directional Machine Counts

Eastern Segment:





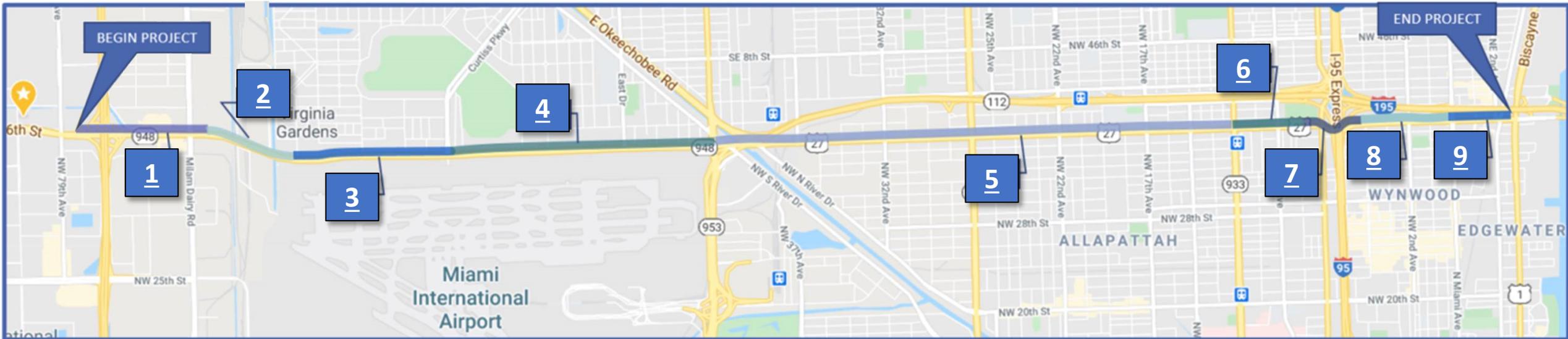
Level of Service

INTERSECTION LEVEL OF SERVICE - AM PEAK HOUR
SR 953 / NW 42 Avenue with SR 948 / NW 36 Street and
SR 25 / Okeechobee Road – Iron Triangle
Urban Interchange Mobility Planning Study
 Financial Project ID 438521-1-22-01
 Miami-Dade County, FL





Roadway – Existing Typical Sections Map



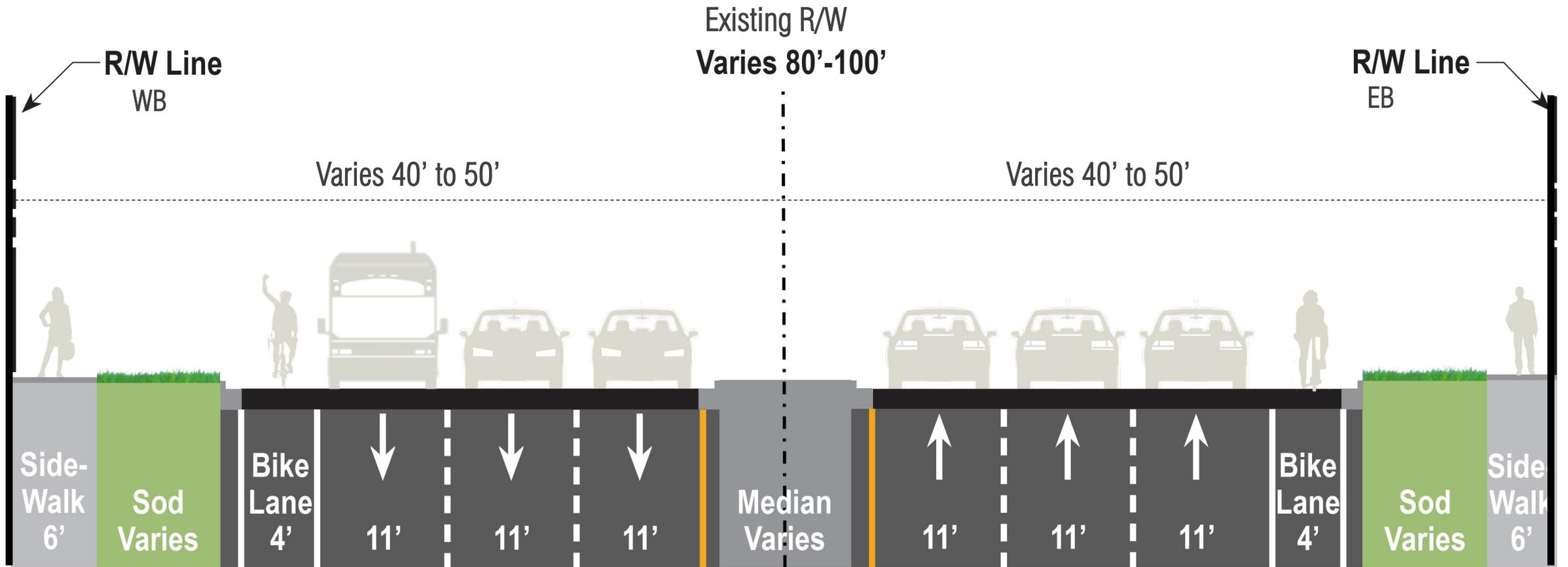
Segment	Class	Typical Section
Palmetto Expressway to NW 42 Avenue	5	6-Lane Divided
NW 42 Avenue to Okeechobee Road		4-Lane Divided
Okeechobee Road to NW 17 Avenue		4-Lane Undivided
NW 17 Avenue to NW 7 Avenue	7	2-Lane Undivided
NW 7 Avenue to NW 5 Avenue		4-Lane Divided
NW 5 Avenue to N Miami Avenue		2-Lane Undivided
N Miami Avenue to Biscayne Boulevard		4-Lane Undivided



Existing Typical Section



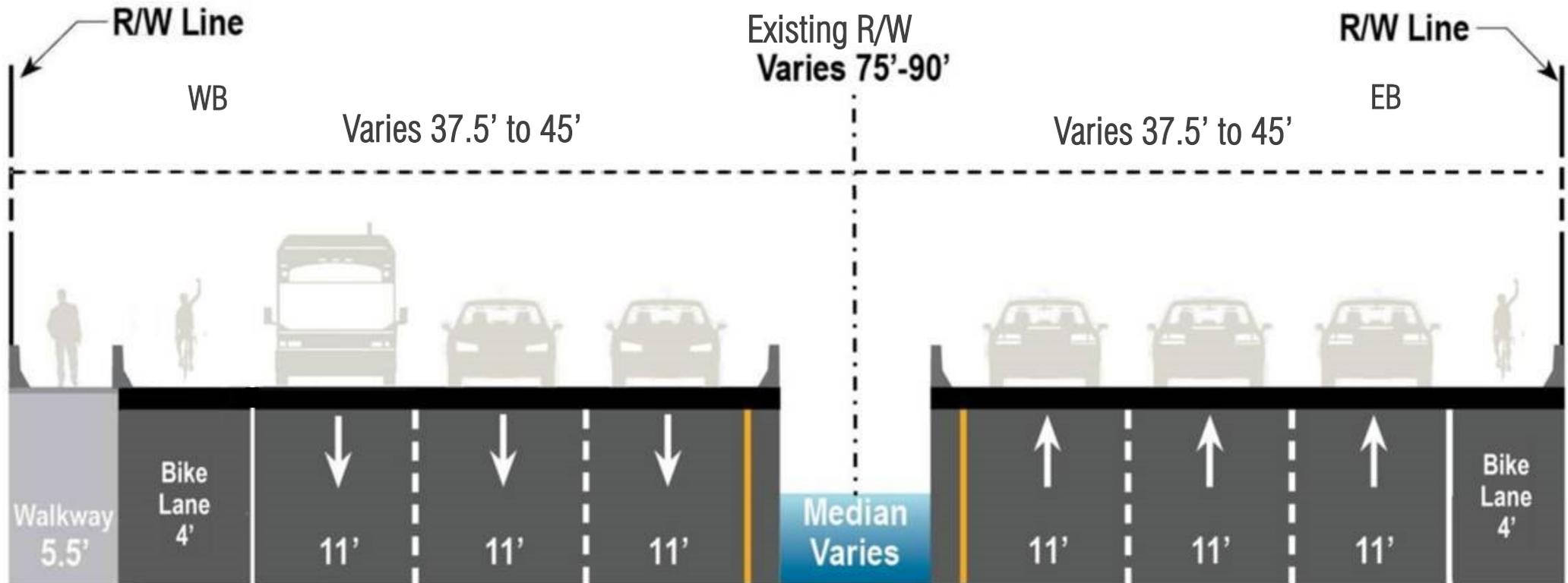
Section 1: SR 826 to Bridge over FEC Hialeah Railway Yard



Existing Typical Section



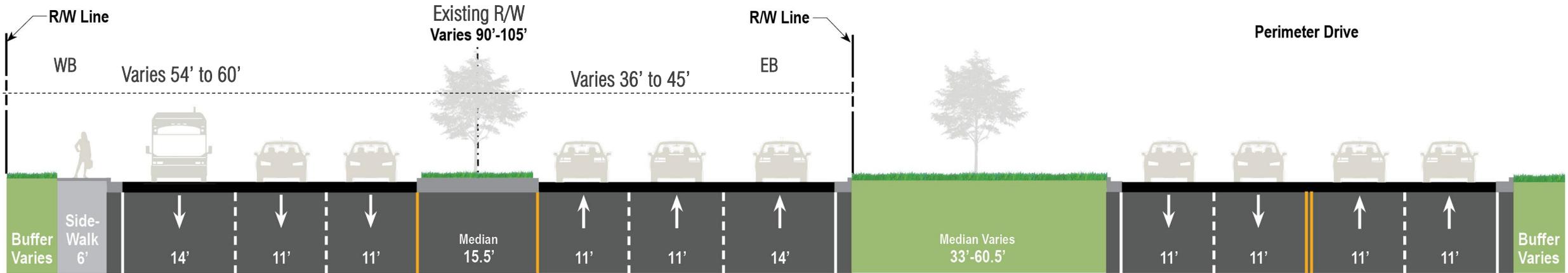
Section 2: Bridge over Hialeah Railway Yard





Existing Typical Section

Section 3: SR 948/NW 36 Street between 67 Avenue to 57 Avenue

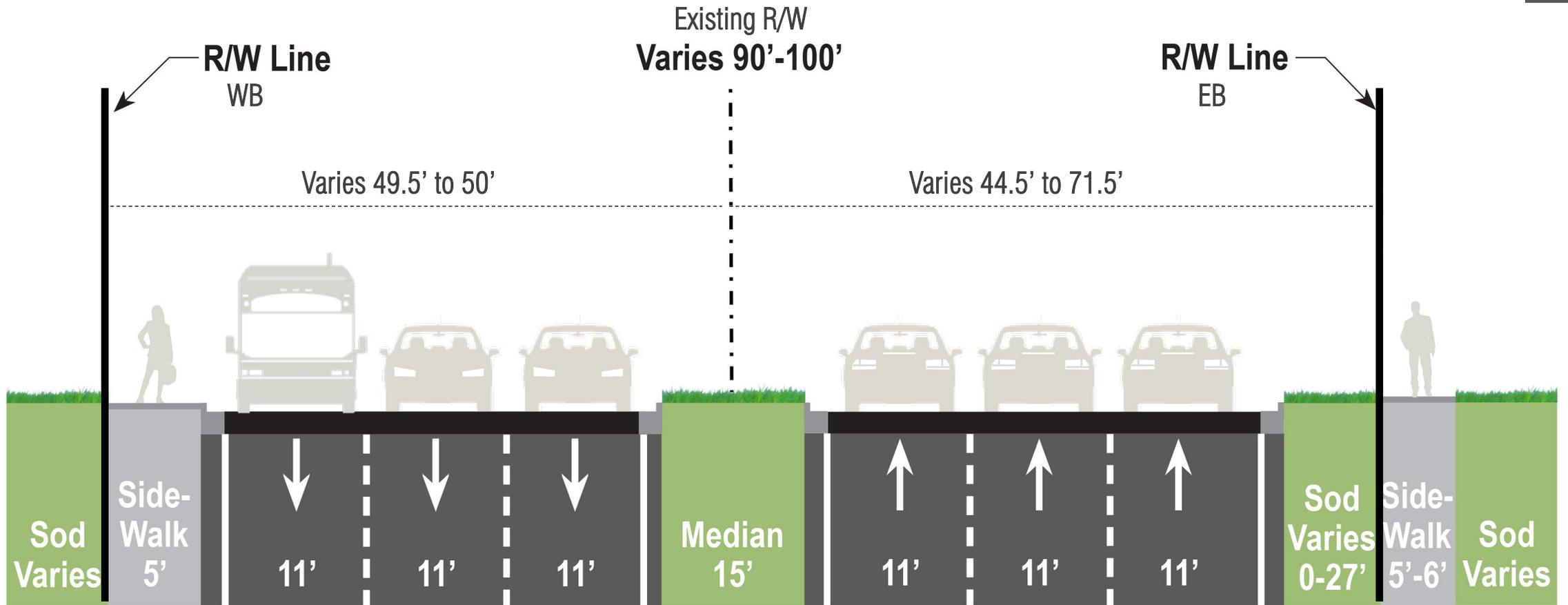




Existing Typical Section



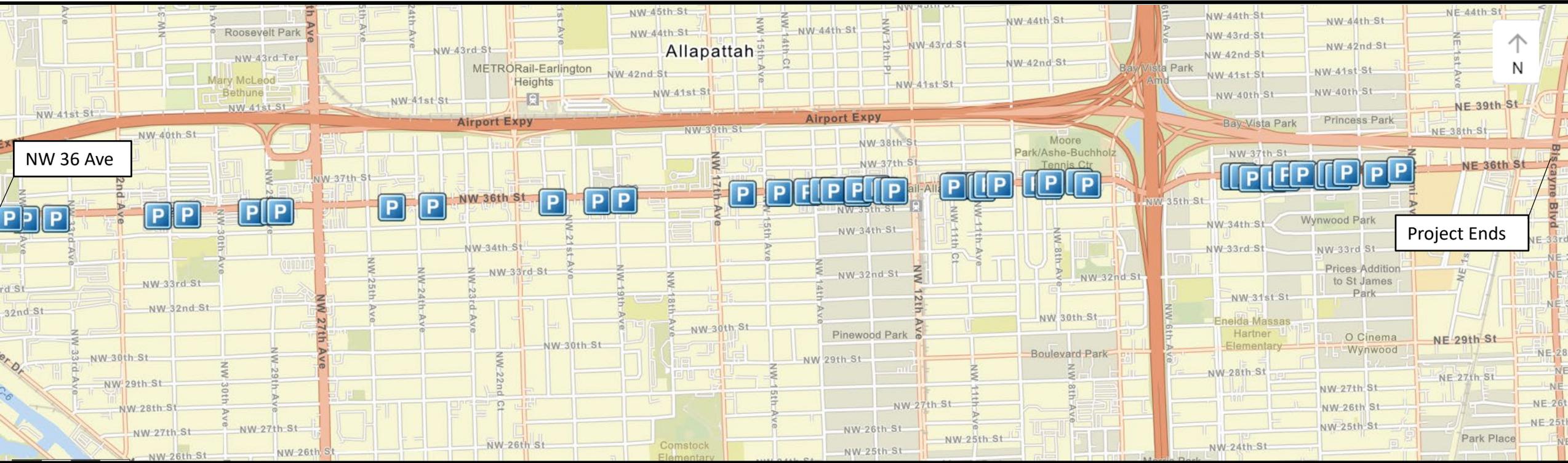
Section 4: SR 948/NW 36 Street between 57 Avenue to 42 Avenue





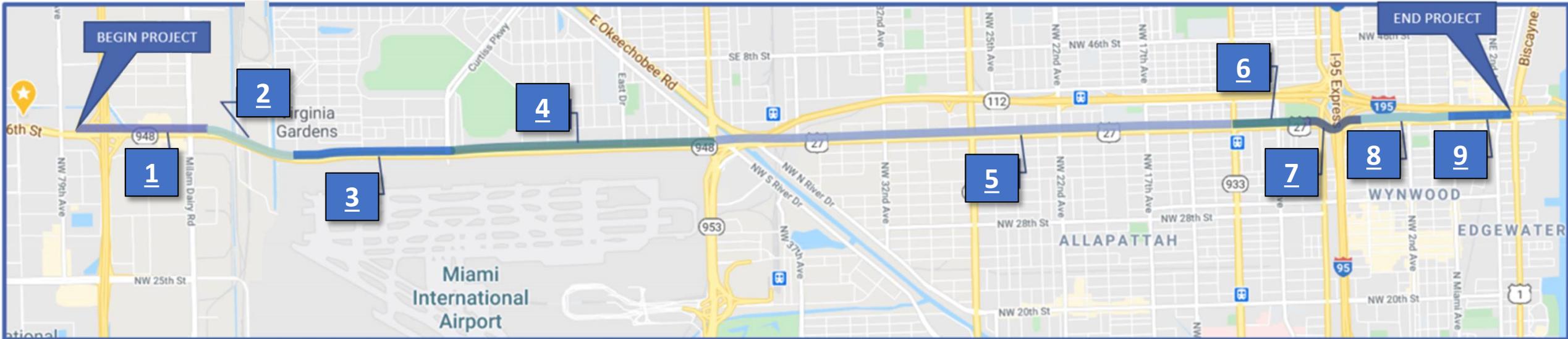
On-Street Parking

Street parking is offered in the Eastern Segment of the corridor.





Roadway – Existing Typical Sections Map

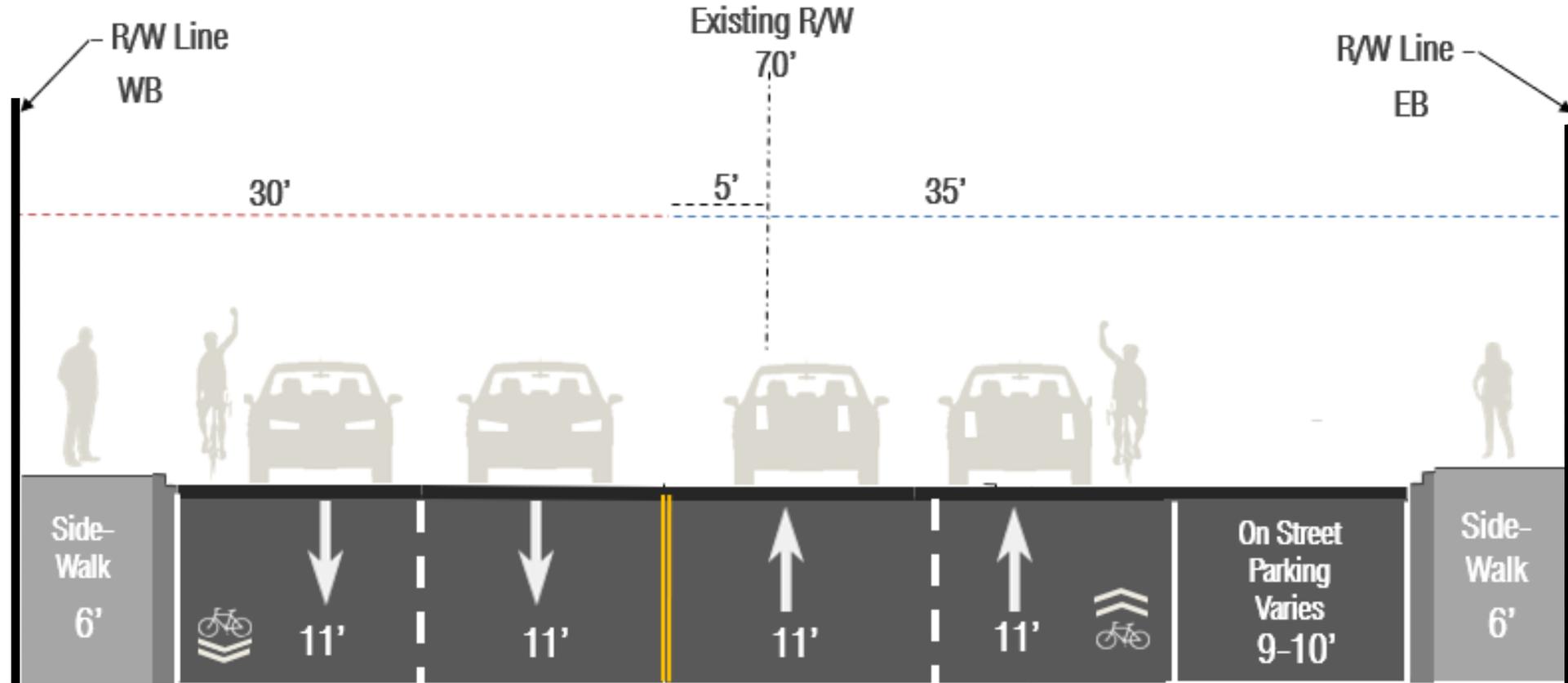


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Palmetto Expressway to NW 42 Avenue	5	6-Lane Divided
NW 42 Avenue to Okeechobee Road		4-Lane Divided
Okeechobee Road to NW 17 Avenue		4-Lane Undivided
NW 17 Avenue to NW 7 Avenue	7	2-Lane Undivided
NW 7 Avenue to NW 5 Avenue		4-Lane Divided
NW 5 Avenue to N Miami Avenue		2-Lane Undivided
N Miami Avenue to Biscayne Boulevard		4-Lane Undivided

Existing Typical Section



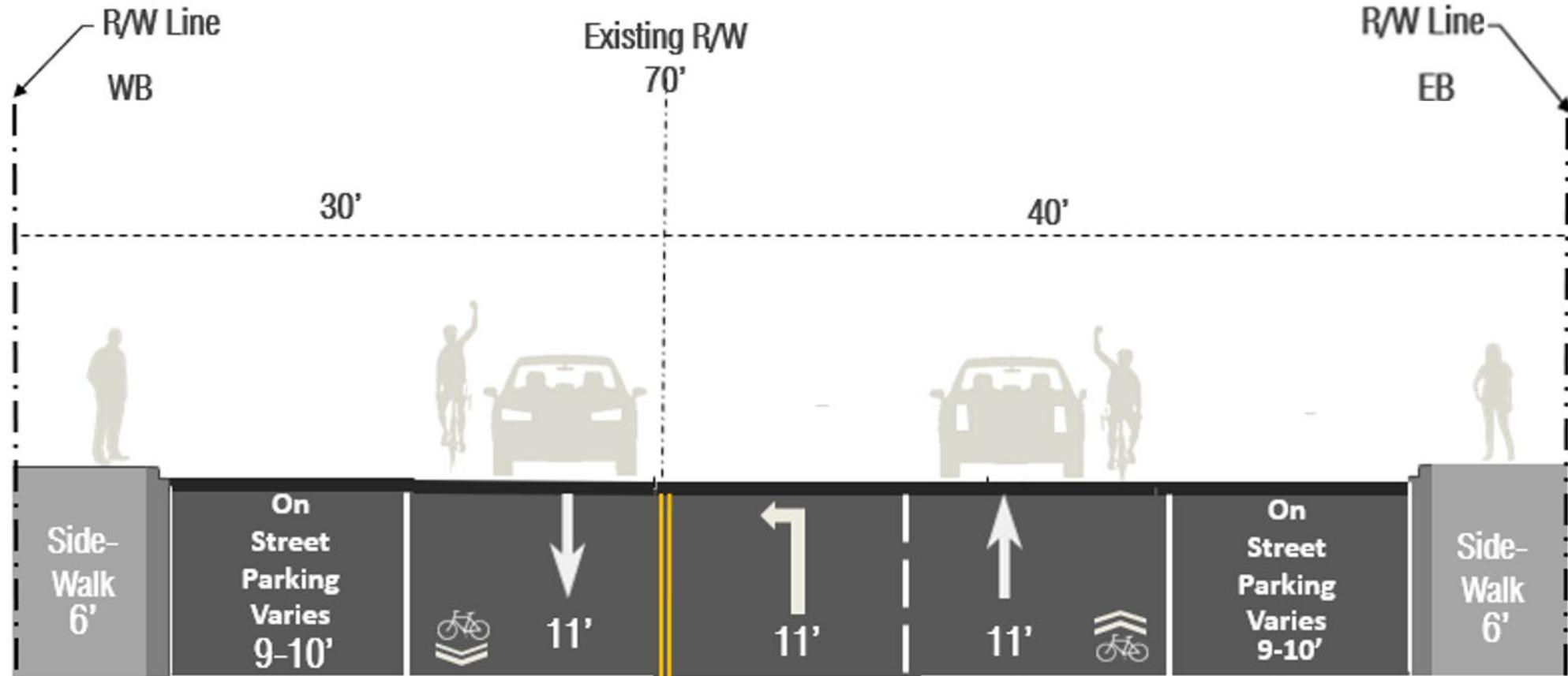
Section 5: NW 42 Avenue/Le Jeune Road to NW 12 Avenue



Existing Typical Section



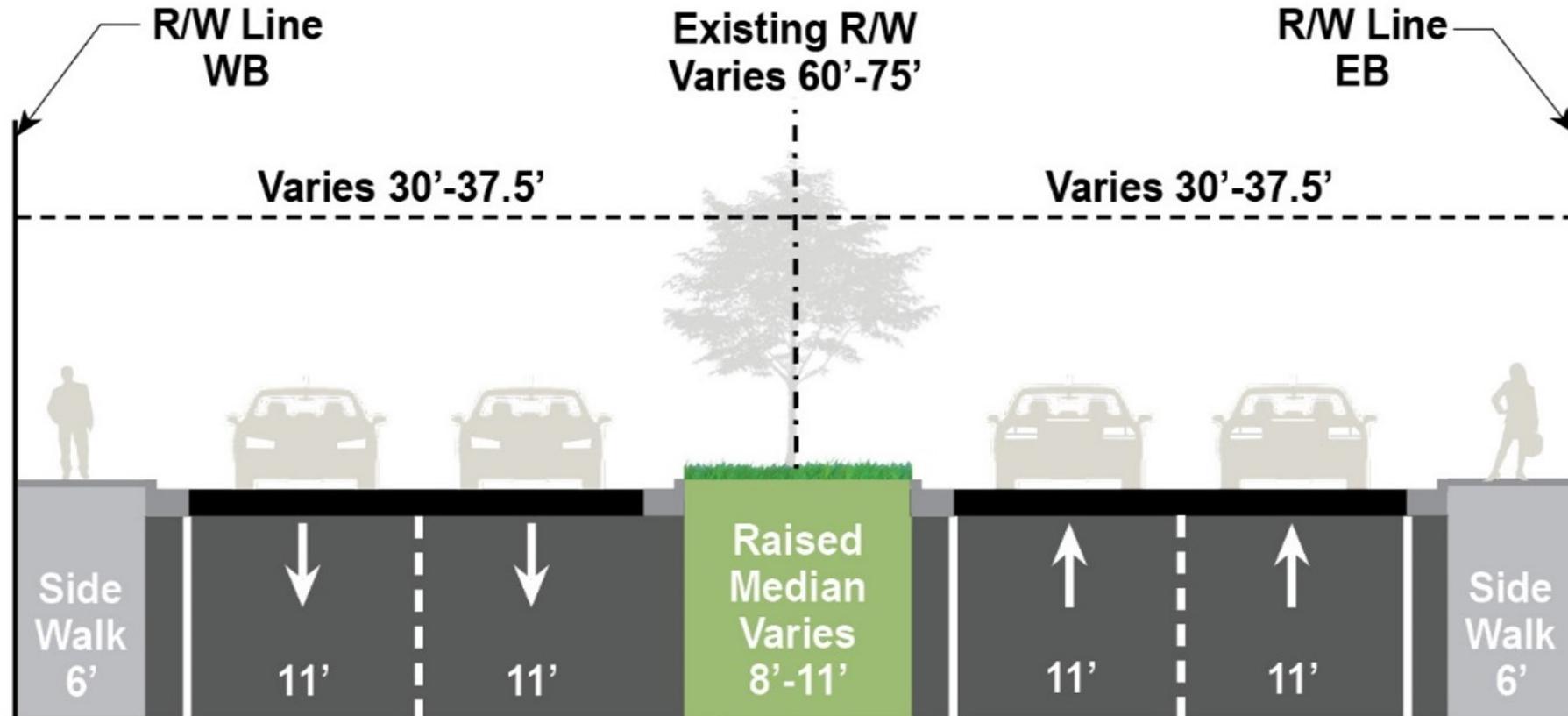
Section 6: NW 12 Avenue to NW 7 Avenue



Existing Typical Section



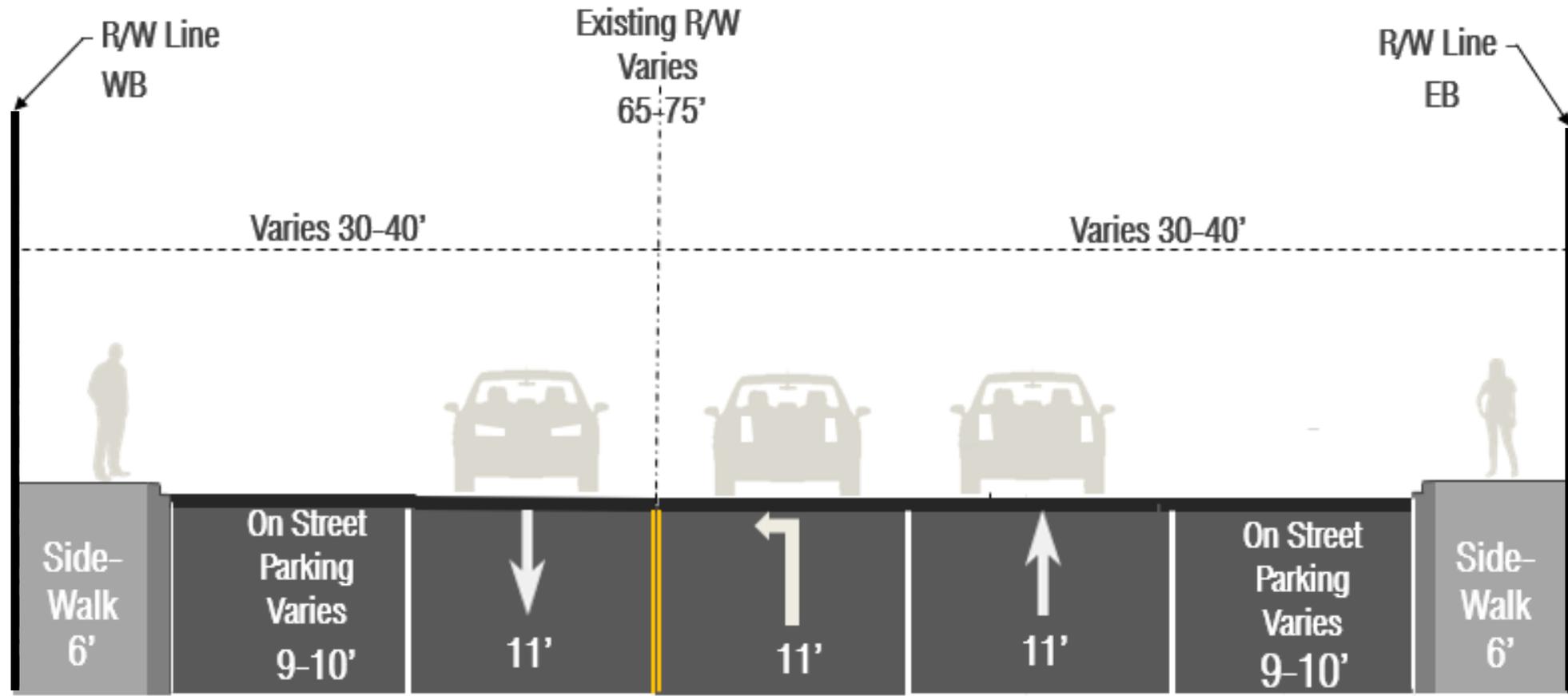
Section 7: NW 7 Avenue to NW 5 Avenue



Existing Typical Section



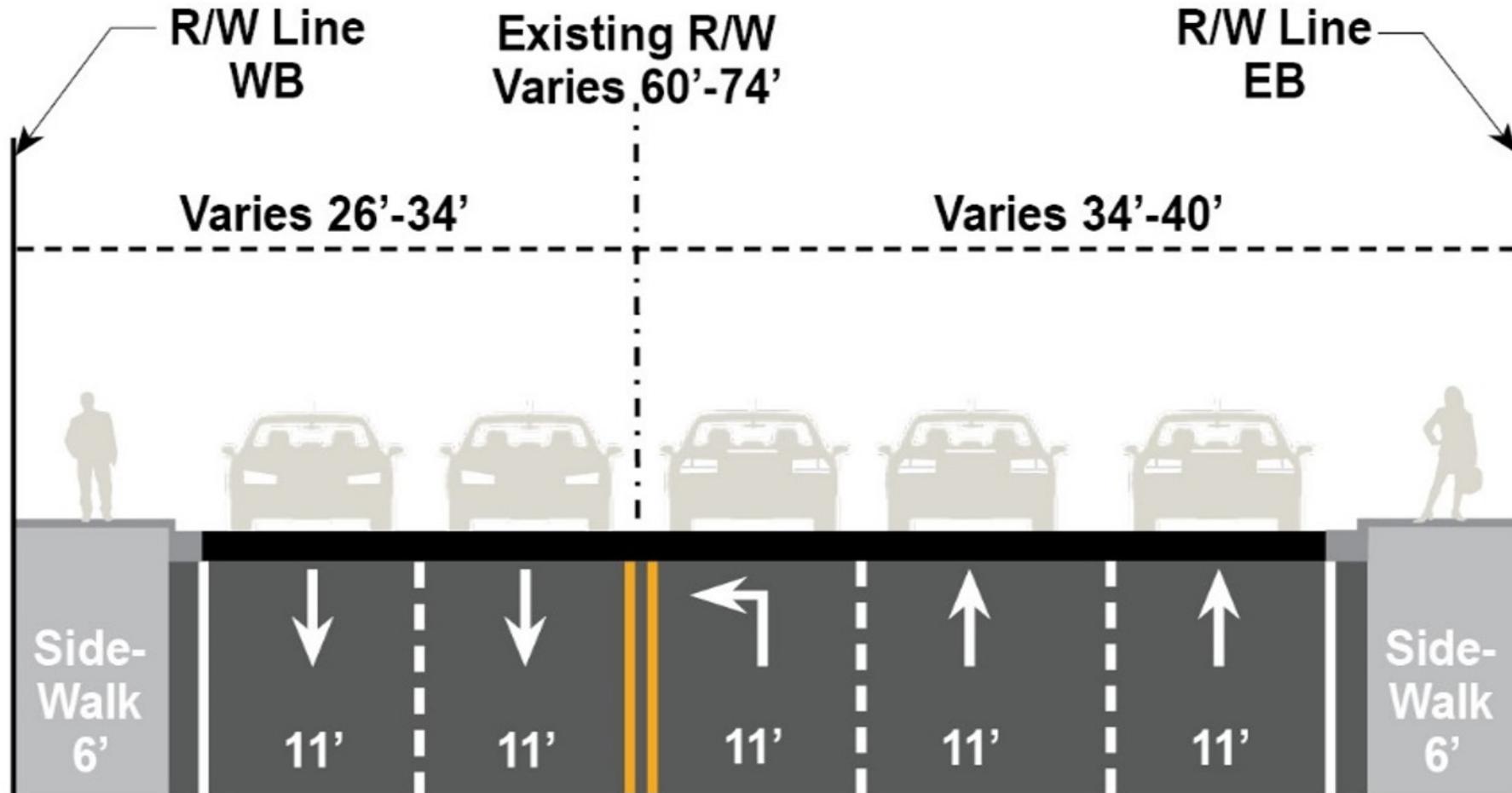
Section 8: NW 5 Avenue to N Miami Avenue



Existing Typical Section



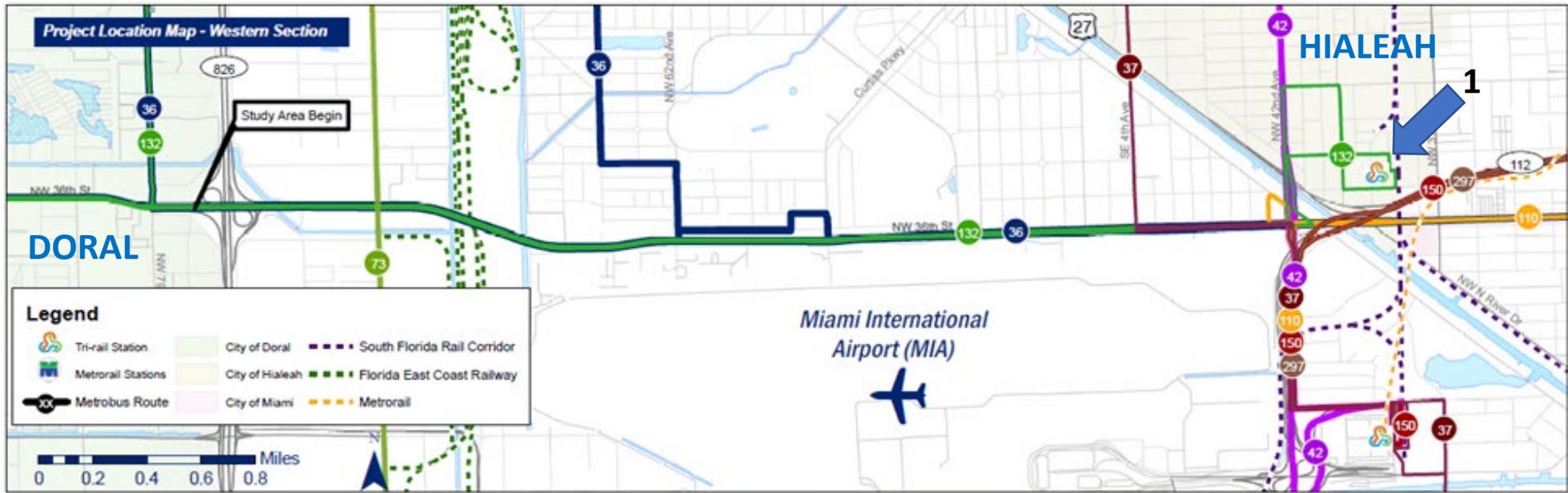
Section 9: N Miami Avenue to SR 5/US 1





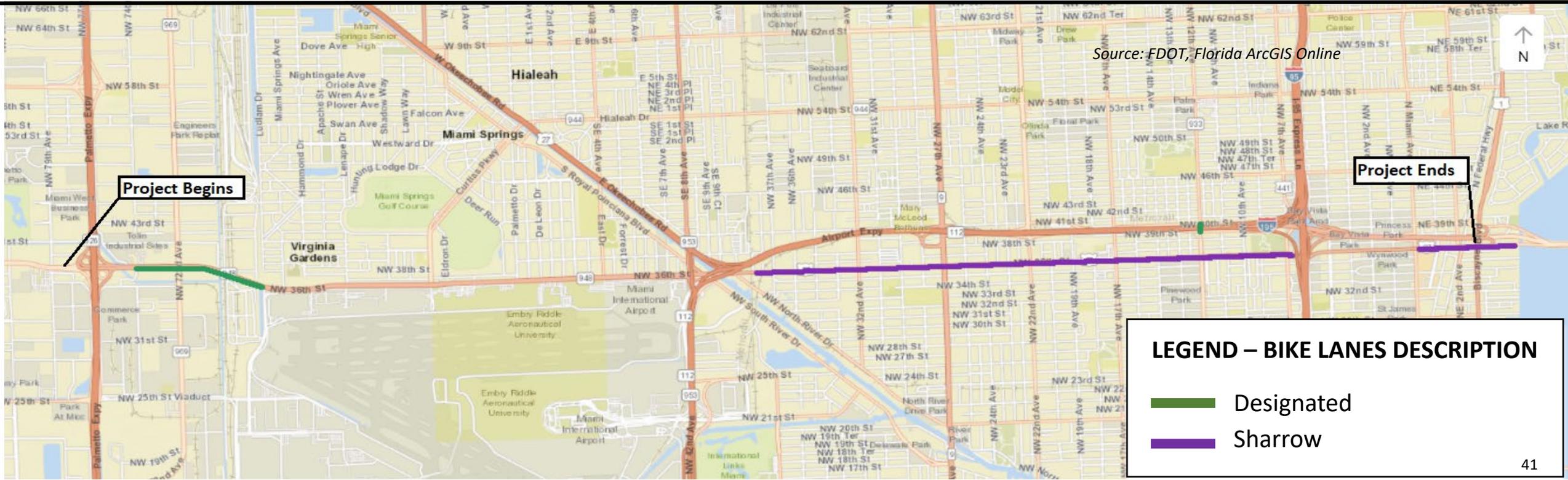
Transit

Riders can connect via Metrobus to various locations in Miami-Dade County that provides service along NW 36 Street or in close proximity.

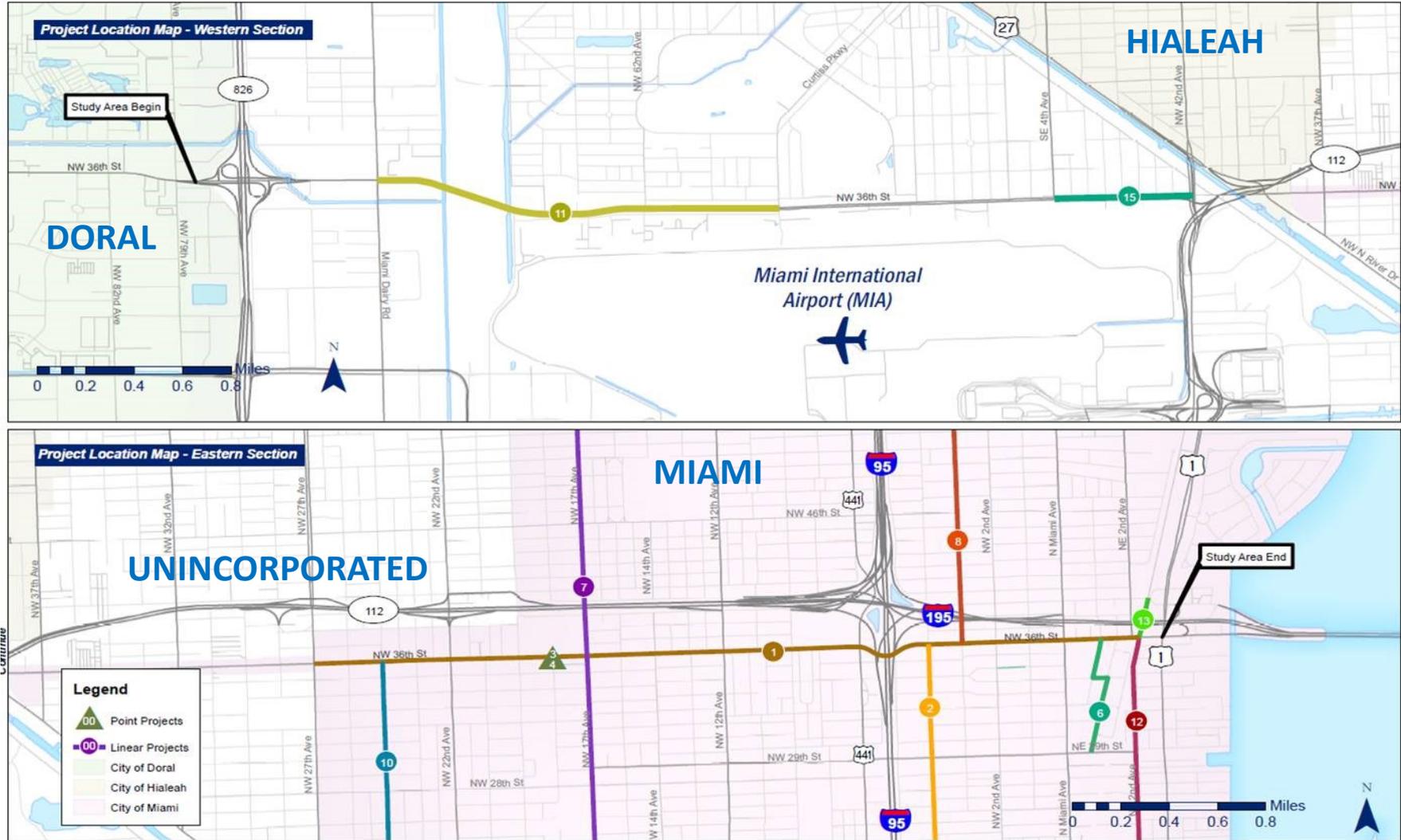




Bicycle Lanes Map

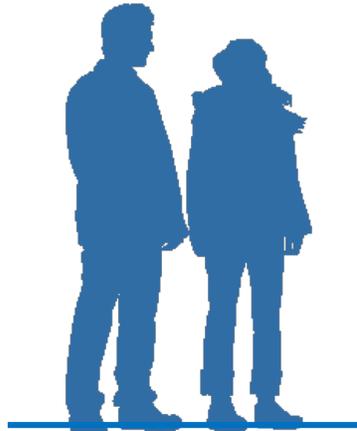


Miami Bike/Ped Master Plan



Pedestrian Facilities Coverage Map

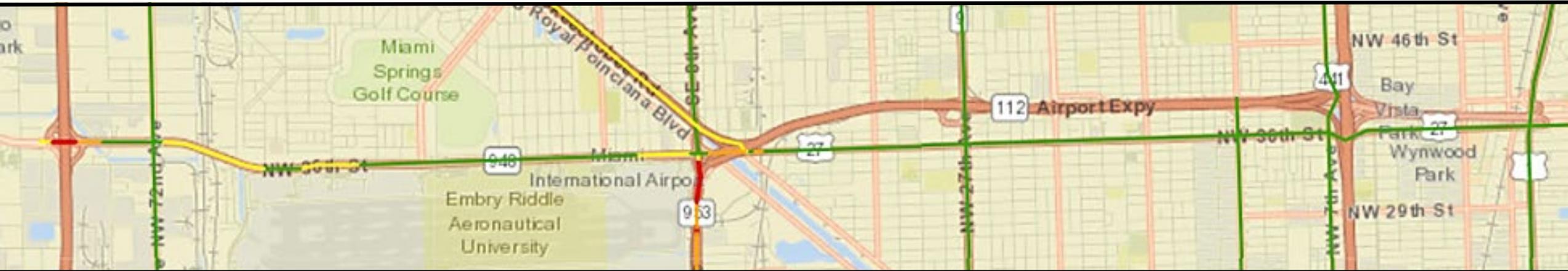
Sidewalks vary along the corridor



Legend

Sidewalk and Sidewalk Gaps

- Composite (Right and Left)
- Left side
- Right side
- Gap

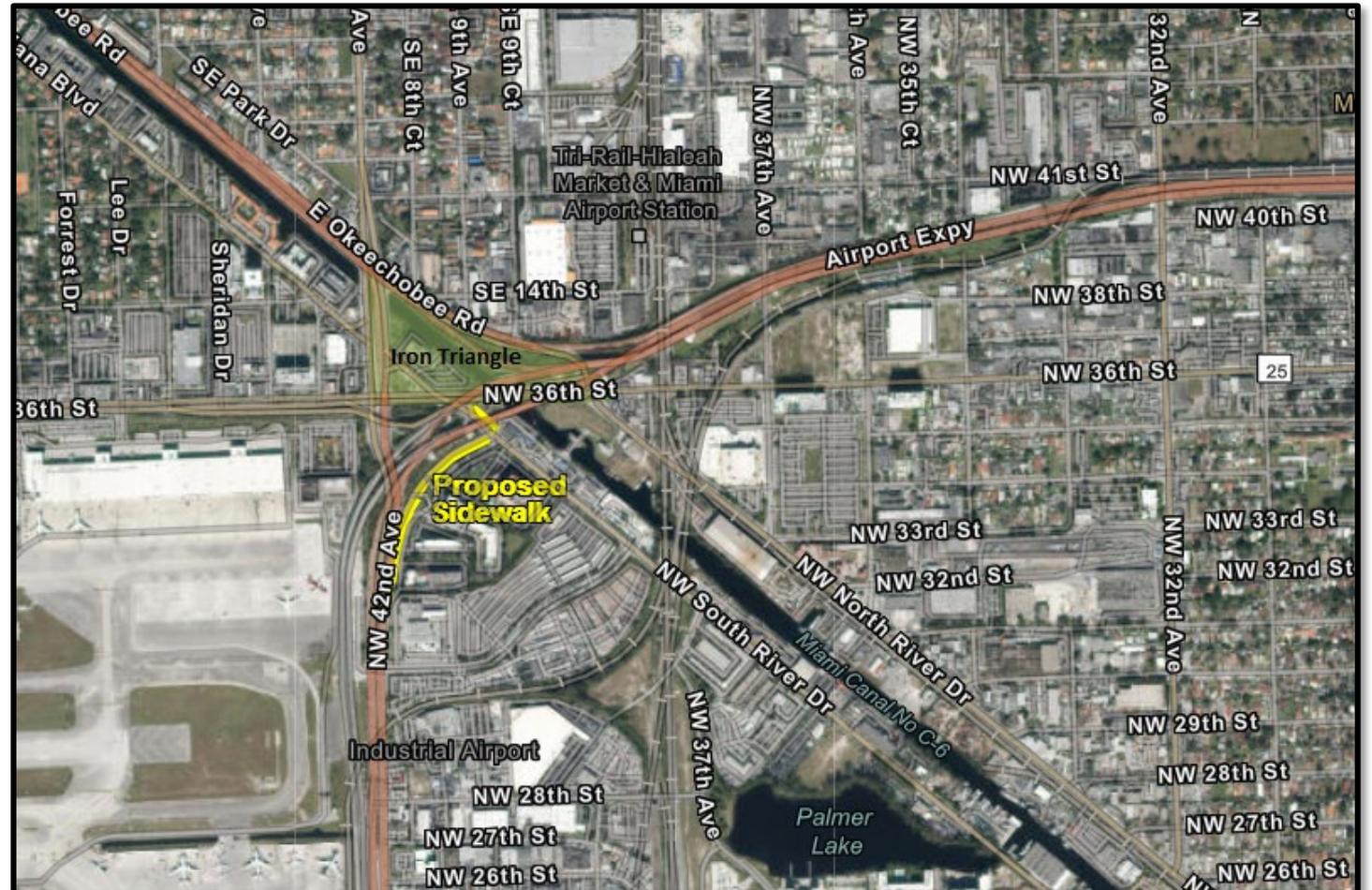




Iron Triangle Study – Proposed Sidewalk

Sidewalk Improvements

- Concept: Provide a 6-foot wide sidewalk along Le Jeune Road spur roadway and NW South River Drive
- Improve pedestrian crossings at existing railroad crossings
- Reconstruct sidewalks to be compliant with ADA and state standards

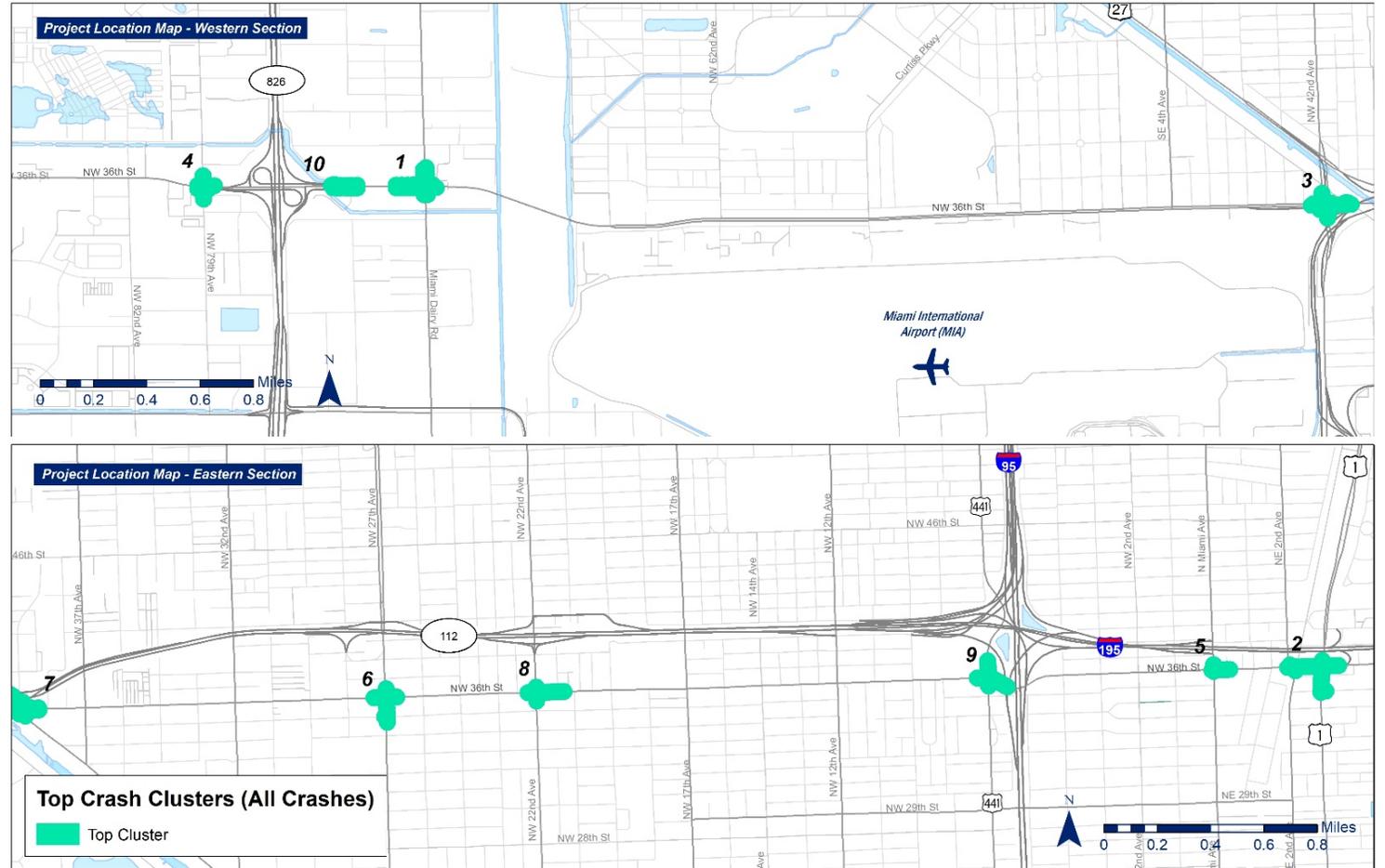


Crash Data – All Crash Clusters

Crash Cluster Analysis

Crashes nearby grouped into clusters to identify trends in high-crash locations

Cluster ID	Location	Crashes
1	Miami Dairy Rd	613
2	SR 5/US 1 and NE 2 Ave	749
3	SR 953/NW 42 Ave	395
4	NW 79 Ave	345
5	Miami Ave	297
6	SR 9	292
7	US 27/Okeechobee Rd	283
8	NW 22 Ave	268
9	US 441	217
10	NW 77 Ave	178

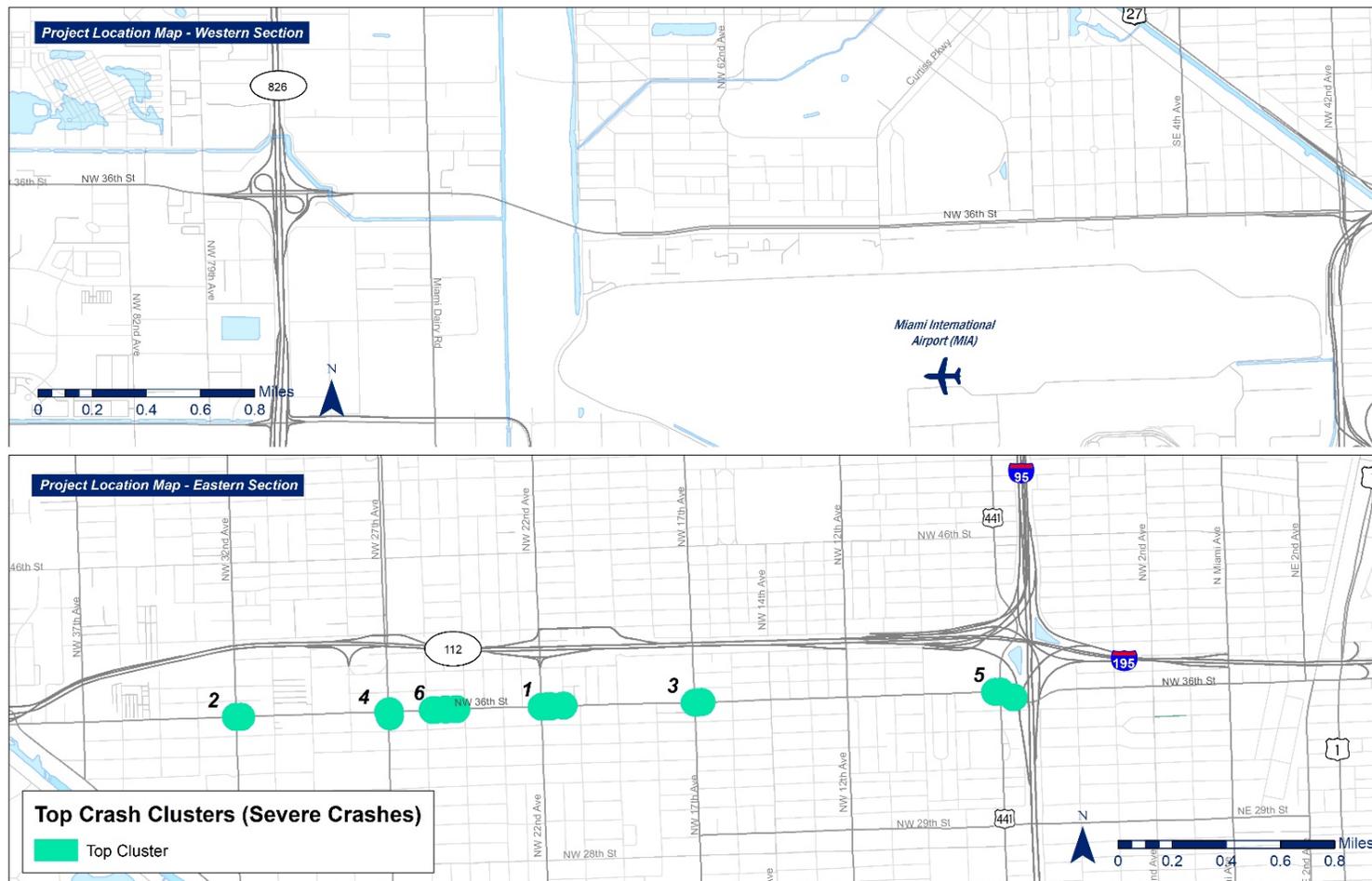


Crash Data – Severe Crash Clusters

Severe Crashes

Crashes involving an incapacitating or fatal injury

Cluster ID	Location	Crashes
1	NW 22 Avenue	10
2	NW 32 Avenue	6
3	NW 17 Avenue	5
4	SR 9	5
5	US 441	5
6	Between NW 25 Avenue and NW 24 Avenue	4



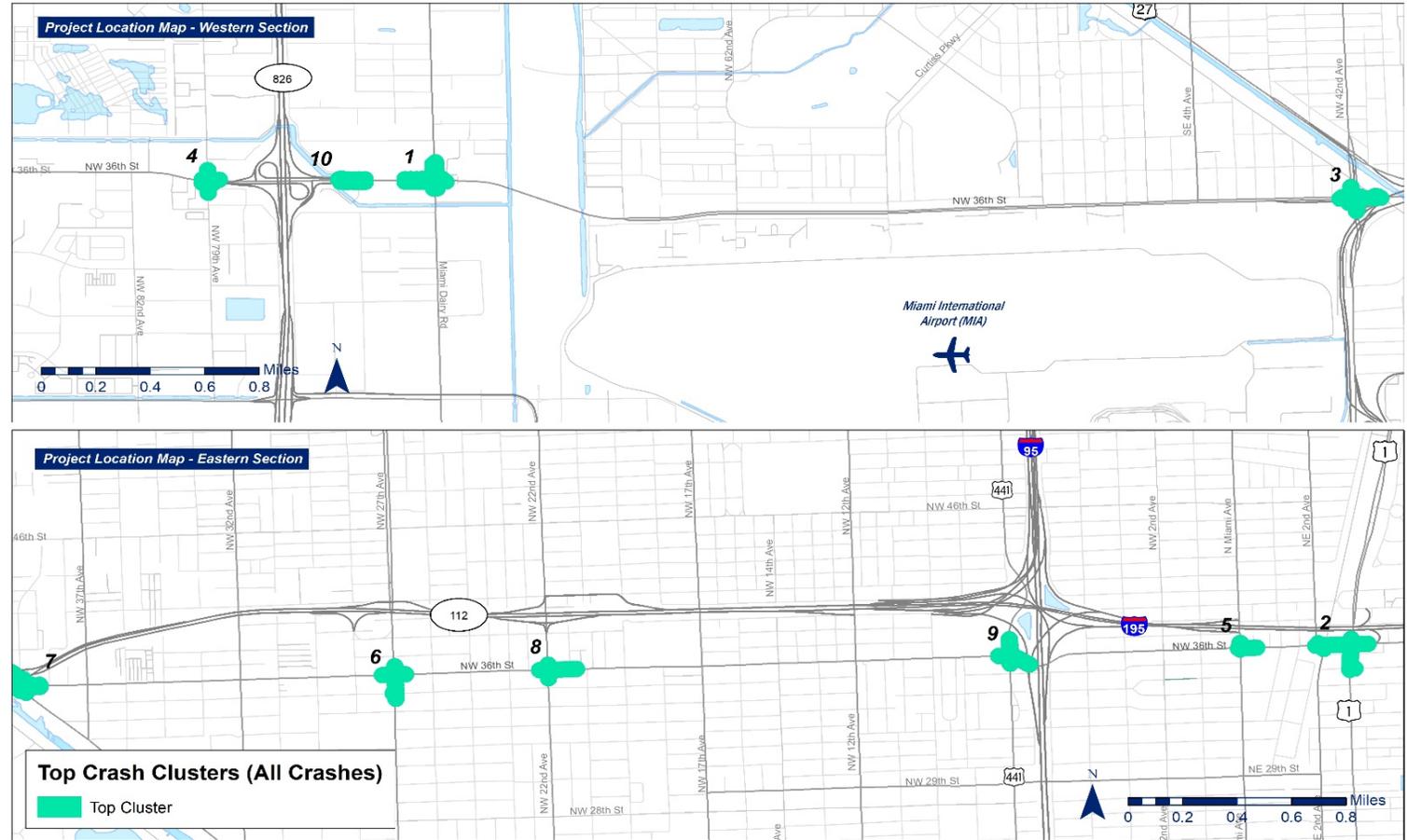


Crash Data – Non-Motorized Crash Clusters

Non-Motorized Crashes

Crashes involving someone walking or riding a bicycle

Cluster ID	Location	Crashes
1	N Miami Ave to SR 5	38
2	NW 22 Ave	15
3	NW 17 Ave	14
4	NW 72 Ave/Miami Dairy Rd	9
5	SR 9	9
6	NW 14 Ave	6
7	NW 32 Ave	6
8	NW 2 Ave	6
9	NW 35 Ave	5



A desktop review of publicly available data was conducted to locate known occurrences of protected species, critical habitat, environmental permits and other special designation boundaries.

Protected Species and Critical Habitat

- Bald eagles and wood stork are outside of project limits
- Critical habitat for the West Indian Manatee is within the project limits

Wetlands and Outstanding Florida Waters

- 2 riverine system wetlands are in the study area
- The Biscayne Bay Aquifer is just east of the project limits, with some in the Miami River Greenway

Flood Zones

- Much of the study area lies in “high risk” flood zone as designated by FEMA

West Indian Manatee Critical Habitat Source: Florida Fish and Wildlife



Wetlands Source: National Wetlands Inventory



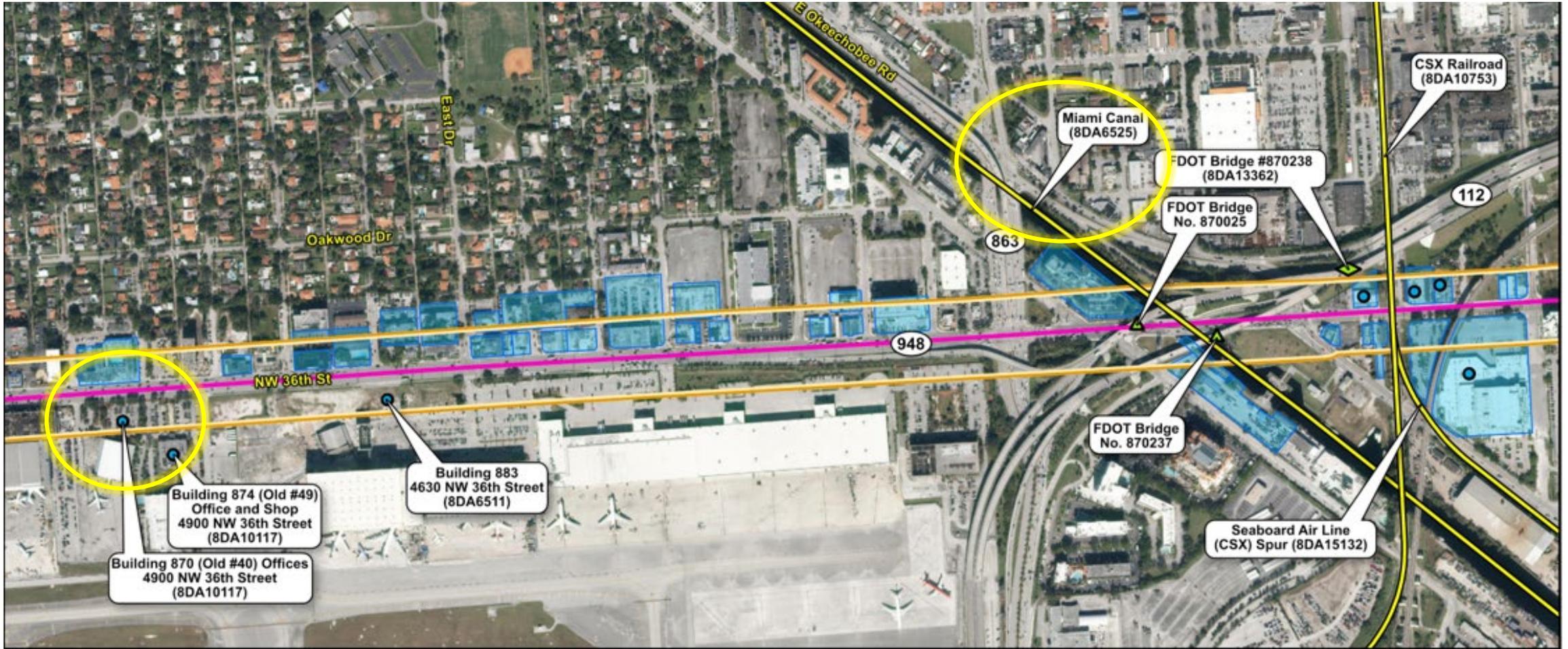
Flood Zones Source: FEMA



Cultural and Historic Resources

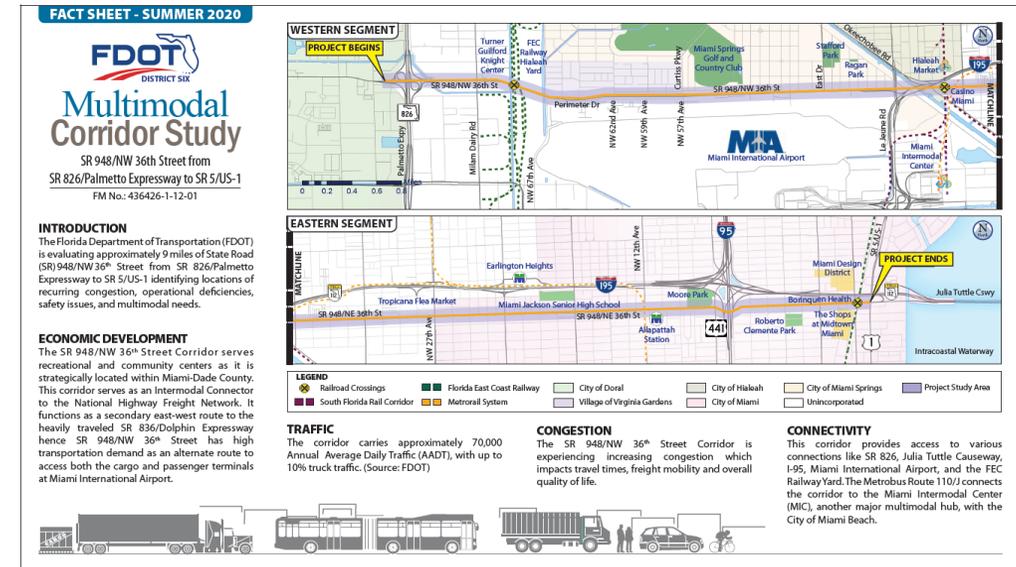
- No known archaeological resources have been recorded within the study area.
- A total of 65 previously recorded historic resources, including three railroad segments, three canal segments, one road segment, one historic bridge, and 57 historic structures, were identified within the study area
- Two of the previously recorded historic resources within the study area, the **Miami Canal** (8DA6525) and the **Florida East Coast (FEC) Railway** (8DA10107), have previously been determined to be eligible for the National Register of Historic Places
- Building 874 (Old #49) Office & Shop (8DA10117) located at 4900 NW 36th Street has also been historically-designated by Miami-Dade County as **The Pan American Regional Headquarter Building**. It is not National Register eligible
- There is also the potential for numerous historic resources to exist within and surrounding the project corridor. A total of 451 parcels with historic build dates are intersected by the study area and 11 potential unrecorded historic bridges are located within, or are intersected by, the study area





<p>Locations of Previously Recorded and Unrecorded Historic Resources Within the Study Area (Map 3 of 6)</p>	<p>Multimodal Corridor Study SR 948/NW 36th Street from SR 826/Palmetto Expressway to SR 5/US-1 (FM No. 436426-1-12-01)</p>	<p>— Project Limits — Study Area</p>	<p>● Previously Recorded Historic Building ◆ Previously Recorded Historic Bridge — Previously Recorded Historic Linear Resource</p>	<p>▲ Unrecorded Historic Bridge ■ Parcel with Historic Build Date</p>	<p>Miami-Dade County</p>
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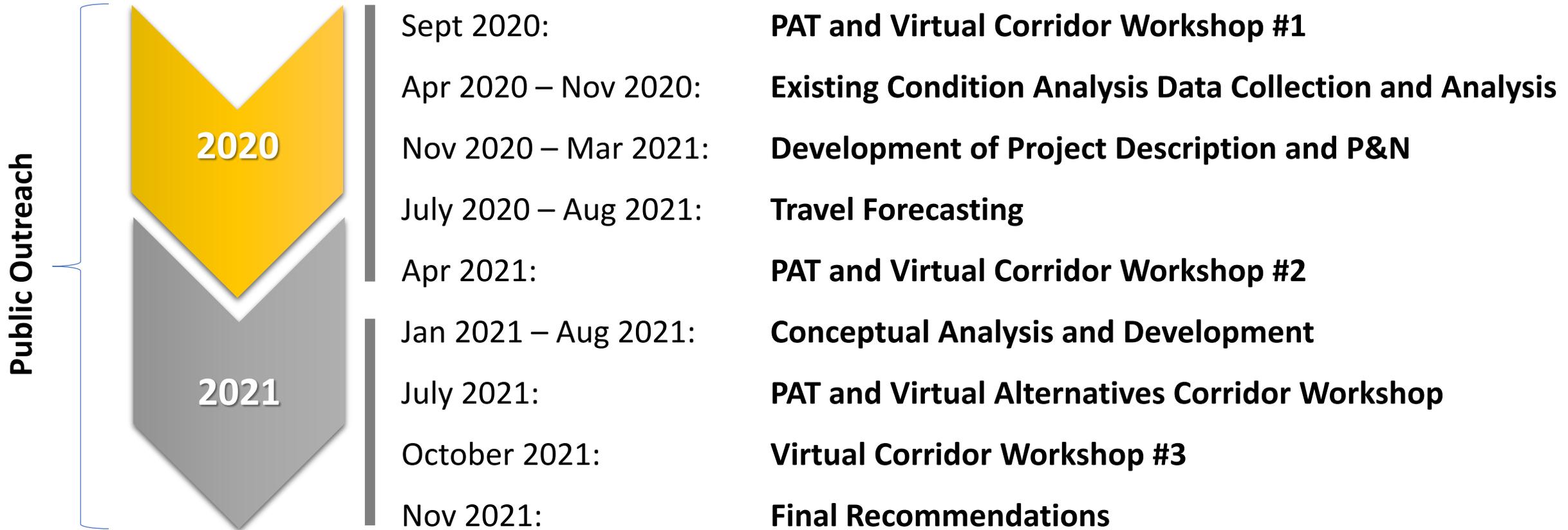
- Plan to listen to public and stakeholders, build partnerships, reach out to all affected communities
- Diverse communities and demographics exist in corridor
- Focus on freight in the west, focus on urban mobility in the east
- Due to the bilingual communities, public involvement materials will be developed in English, Spanish, and Creole
- Public outreach through newspapers, television, radio, letters, news, press release, public announcements, direct mail list
- Includes PAT Meetings and Public Workshops



Municipality	Population	Language	Educational Attainment	Median Household Income	Vehicle Ownership per Household from 2017 Census*
Doral	24,479	Spanish Speaking: 80.6% English Speaking: 9.1% Other Languages: 9.5%	94.9% High School graduate or higher	\$77,418	2.134
Virginia Gardens	2,451	Spanish Speaking: 84% English Speaking: 13% Other Languages: 3%	85.7% High School graduate or higher	\$47,465	2.21
Miami Springs	14,430	Spanish Speaking: 74.71% English Speaking: 22.84% Other Languages: 2.45%	85.7% High School graduate or higher	\$59,335	2.32
Hialeah	102,152	Spanish Speaking: 93.6% English Speaking: 6.4%	70.7% High School graduate or higher	\$33,161	2.19
Miami	109,995	Spanish Speaking: 69.95% English Speaking: 22.98% Other language: 7.07%	85.7% High School graduate or higher	\$47,465	1.747



Project Schedule





Invited to ask questions or address concerns.
Thank you for your time and participation.



For More Information



FDOT PROJECT MANAGER

Carlos Castro

E-mail: carlos.castro@dot.state.fl.us



CONSULTANT PROJECT MANAGER

Daphne Spanos, PE

E-mail: daphne.spanos@exp.com

Phone: (305) 631-2208



COMMUNITY OUTREACH SPECIALIST

Maria Alzate

E-mail: maria@iscprgroup.com

Phone: (305) 560-8218

Visit the Project Website:

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