



CITY OF FORT LAUDERDALE

Multimodal Improvements For Andrews Avenue & SE 3rd Avenue

Kimley»Horn



Agenda

1

PROJECT BACKGROUND/STATUS

2

ONE-WAY PAIR ANALYSIS RESULTS

3

SCENARIO 4 IMPROVEMENTS

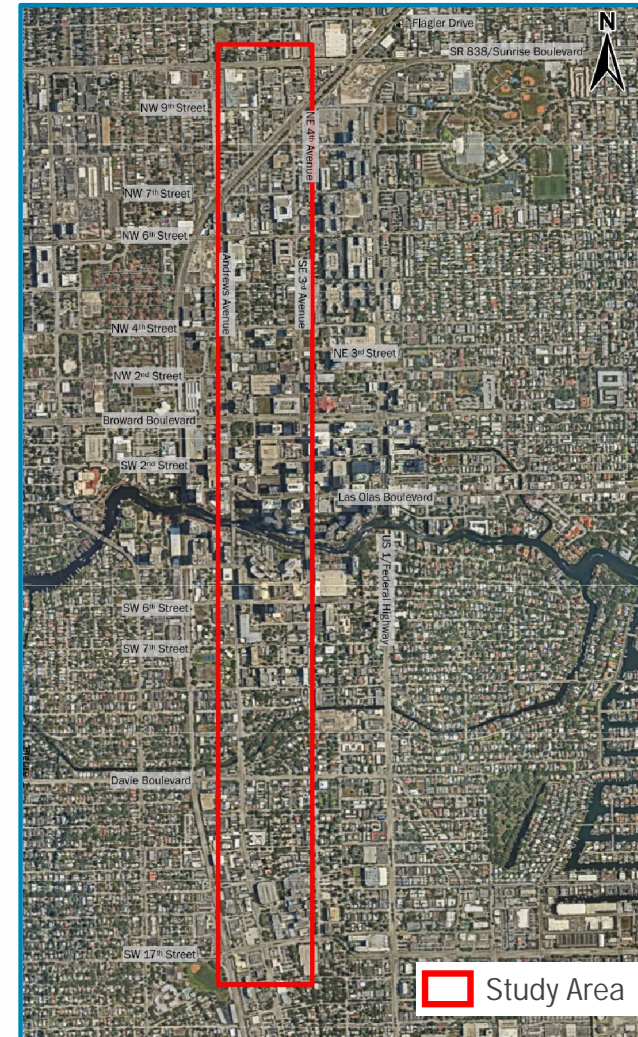
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NEXT STEPS



Project Background

- **Project Study Roadways:**
 - Andrews Avenue
 - NE/SE 3rd Avenue
- **Project Limits:**
 - Sunrise Boulevard – North
 - SE 17th Street – South
- **Study Intersections: 31**
- **Project Purpose:** Evaluate conversion of Andrews Avenue and NE/SE 3rd Avenue to one-way roads in project limits, focus on:
 - Multimodal (pedestrian, transit, freight, and vehicular) level of service
 - Stakeholder Impact
 - Access and Circulation
 - Delays and Queues



Project Status/Next Steps

Task Number	Project Task	Status
1	Agency/Public Meetings	Ongoing
2	Confirmation of Study Area Network and Methodology	Completed
3	Data Collection	Completed
4	Baseline Conditions Analysis	Completed
5	Estimation of Future Year Travel Demand: Existing Two-Way Network	Completed
6	Feasibility Review: Planning Level Cost Estimates and Feasibility Plans	Completed
7	Estimation of Future Year Travel Demand: One-Way Pair Scenarios	Completed
8	Future Conditions Operational Analysis	Completed
9	Technical Report and Recommendations	Finalizing Based on Stakeholder Input



Project Website

<https://www.fortlauderdale.gov/government/departments-i-z/transportation-and-mobility/transportation-division/one-way-pairs>



Project Development Process

Planning/Feasibility

Project Development and Environment (PD&E) Study

Design

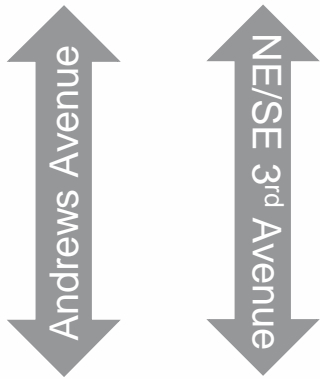
Right-of-Way Acquisition

Construction

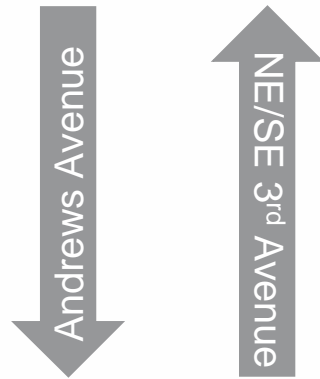


Analysis Scenarios

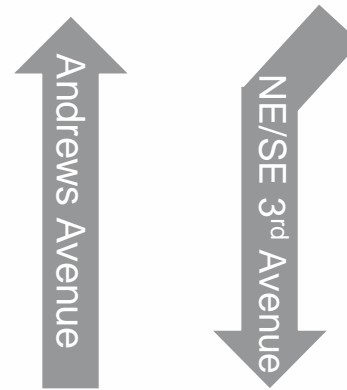
No-Build Conditions
(Two-Way Flow)



Scenario 1
(Counterclockwise Flow)



Scenarios 2/3
(Clockwise Flow)



Scenario 4
(Two-Way Flow)



Scenario 4 Improvements

Changes from Existing Conditions

- Modifying existing lanes to standard width
- Removing under-utilized turn lanes
- Reduction of on-street parking
- Maximizing available right-of-way

Enhancements to Multimodal Facilities

- Widened sidewalks
- Bicycle boulevards
- One-way and two-way bicycle lanes
- Bicycle boxes
- Shared-use paths
- Mid-block crosswalks



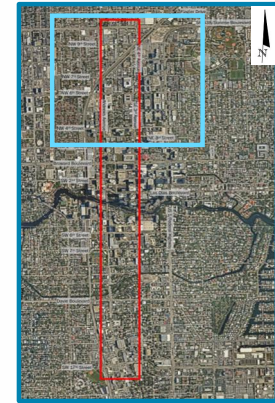
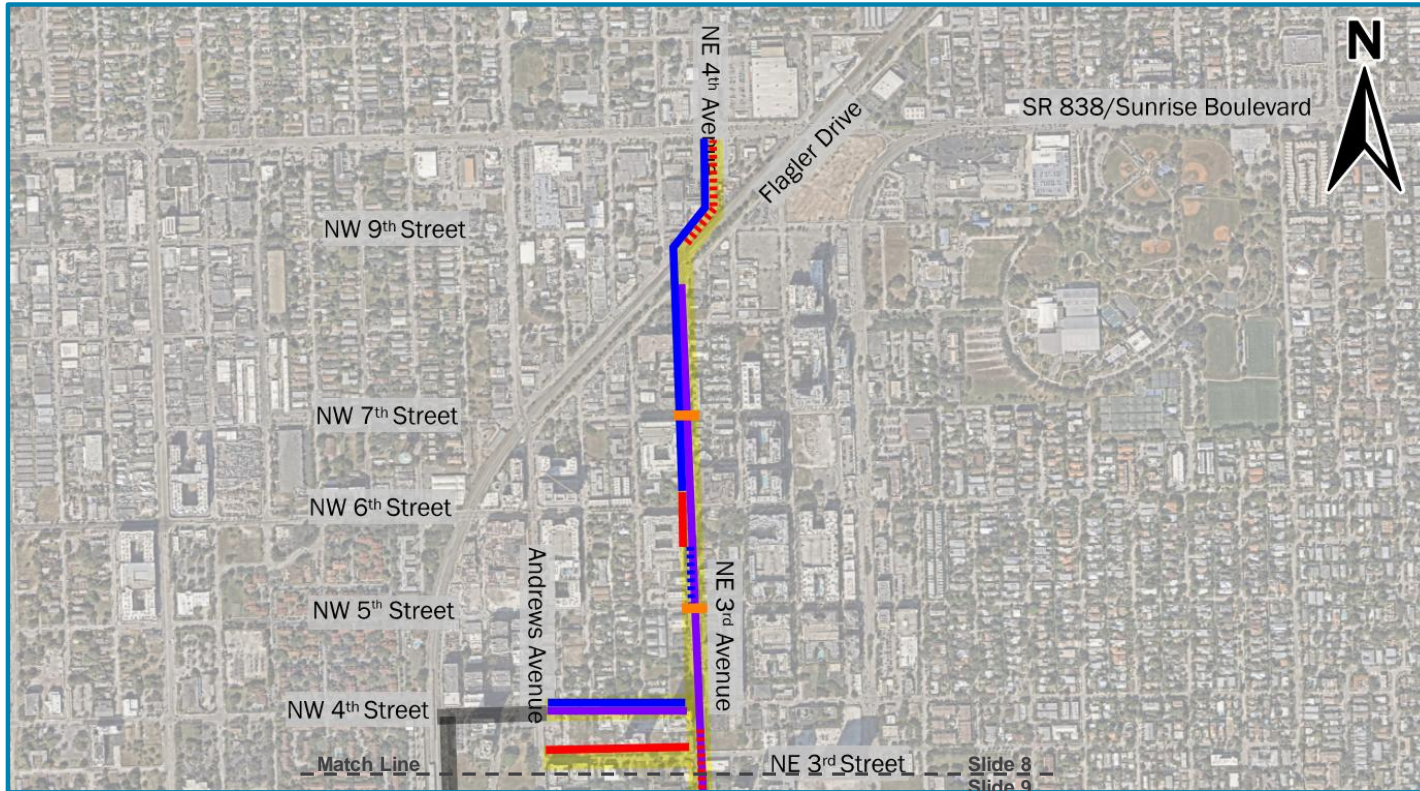
Total Vehicle Delay Results

Scenario	2045 A.M. Total Vehicle Control Delay	2045 P.M. Total Vehicle Control Delay
No-Build	1,222 hr	1,280 hr
1: Within Existing Right-of-Way	33% ↑	77% ↑
1: Full Reconstruction	33% ↑	77% ↑
2: Within Existing Right-of-Way	39% ↑	57% ↑
2: Full Reconstruction	39% ↑	57% ↑
3: Full Reconstruction	54% ↑	80% ↑
4: Pedestrian and Bicycle Connectivity Improvements	----	17% ↑


**Worse Performance
(Increase in Delay)**



Scenario 4 Improvements



Legend:

- Multimodal Network Route
- Existing Enhanced Multimodal Facility
- Widen Sidewalk
- Shared Use Path
- Narrow Lanes to Standard
- Mid-Block Crosswalk
- Remove Turn Lane
- Remove On-Street Parking

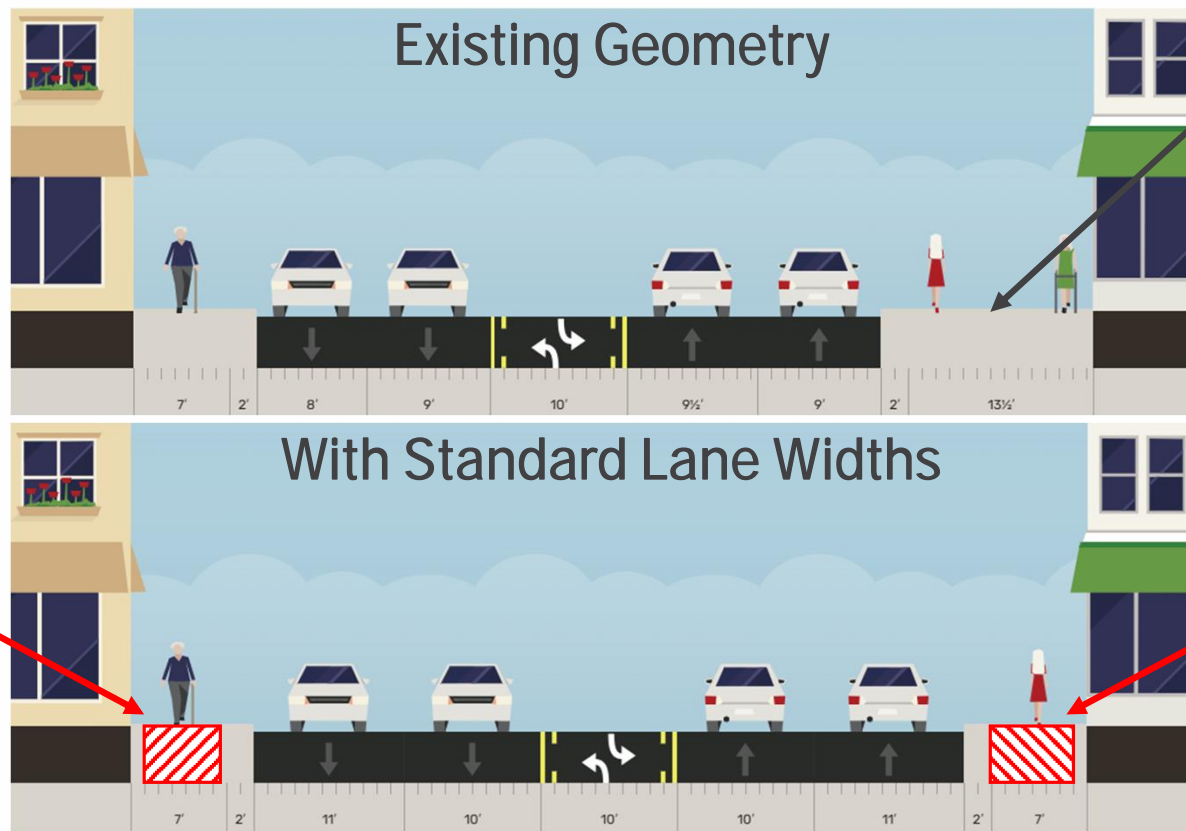


Andrews Avenue Right-of-Way Constraints

- Substandard lane widths and limited right-of-way along Andrews Avenue between Broward Boulevard and Sunrise Boulevard
- Any improvements require standardization of lane widths which results in:
 - Reduction in existing sidewalk widths OR
 - Removal of existing travel lanes



Andrews Avenue Right-of-Way Constraints



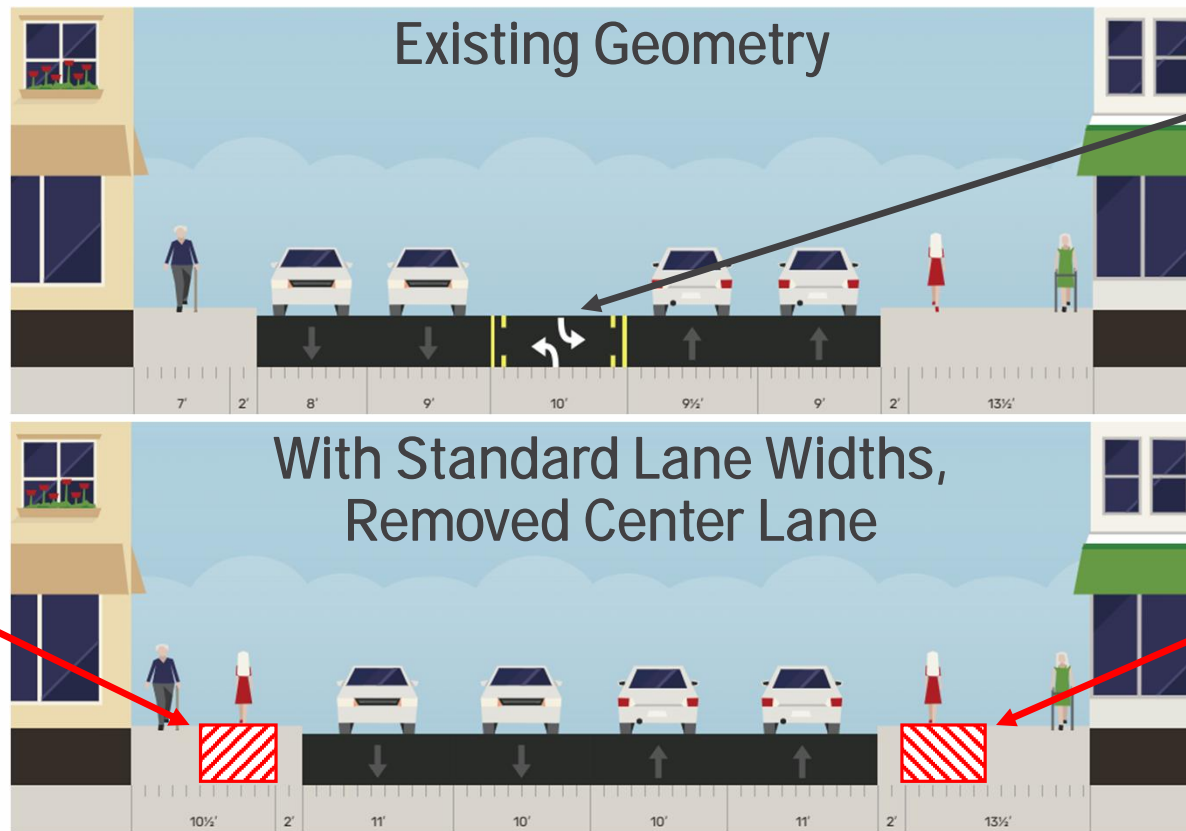
East sidewalk can be narrowed by 6.5 feet to accommodate standard travel lanes.

6-Foot Bicycle Lane Impact (Sidewalk reduced to 1 foot)

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Andrews Avenue Right-of-Way Constraints



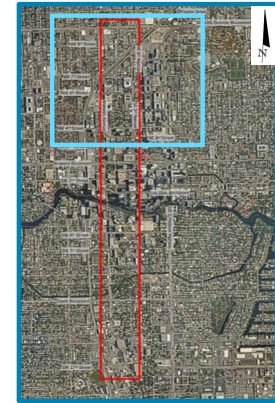
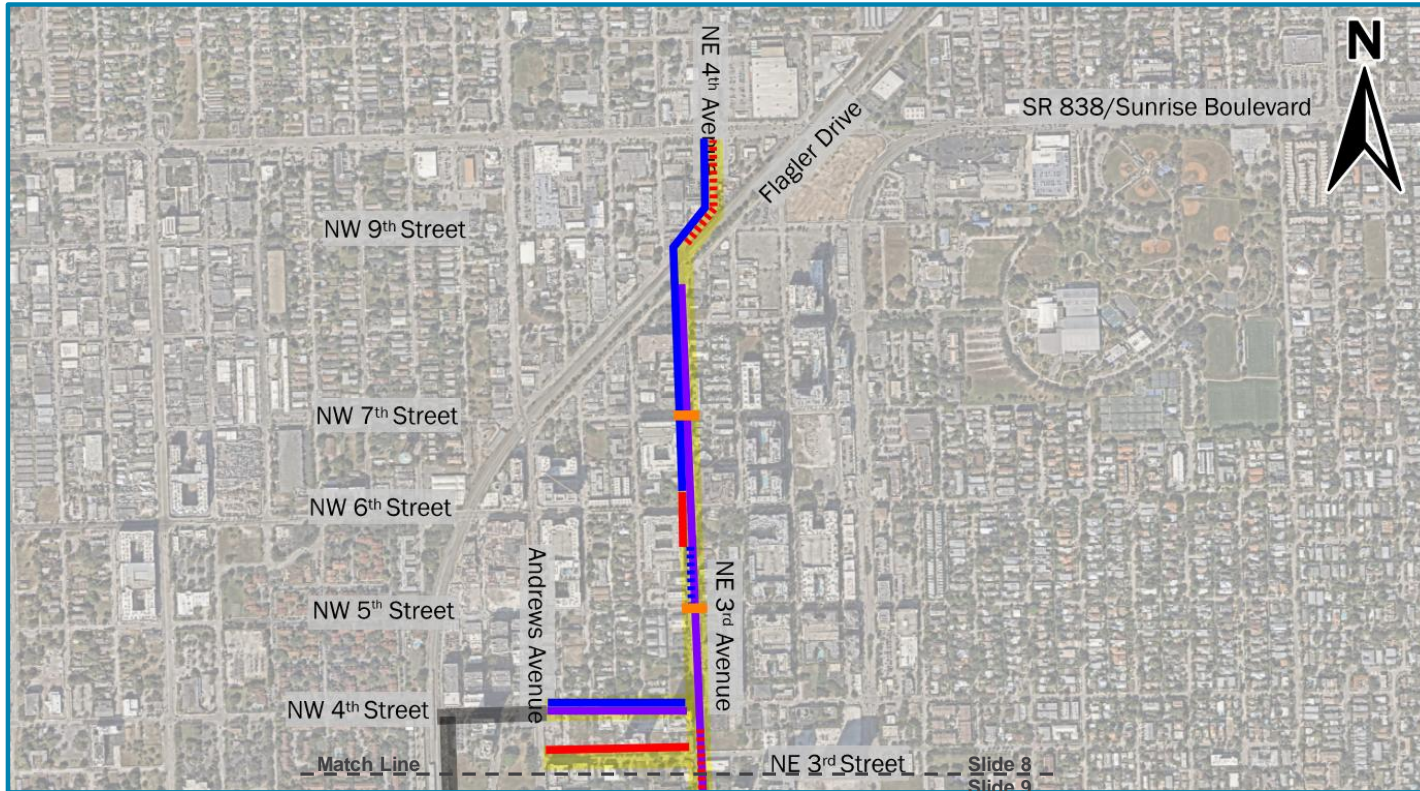
Center 10-foot turn lane can be removed to accommodate standard travel lanes.

6-Foot Bicycle Lane Impact (Sidewalk reduced to 4.5 feet)

6-Foot Bicycle Lane Impact (Sidewalk reduced to 7.5 feet)



Scenario 4 Improvements

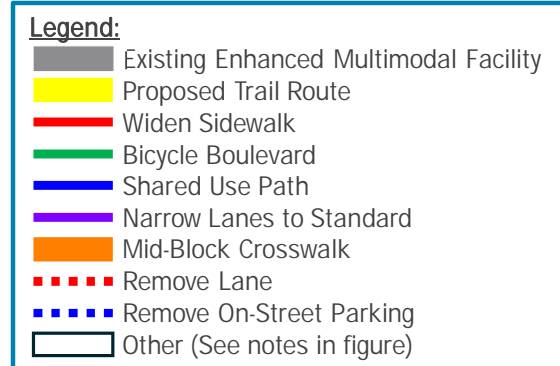
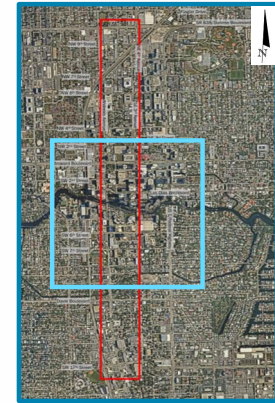
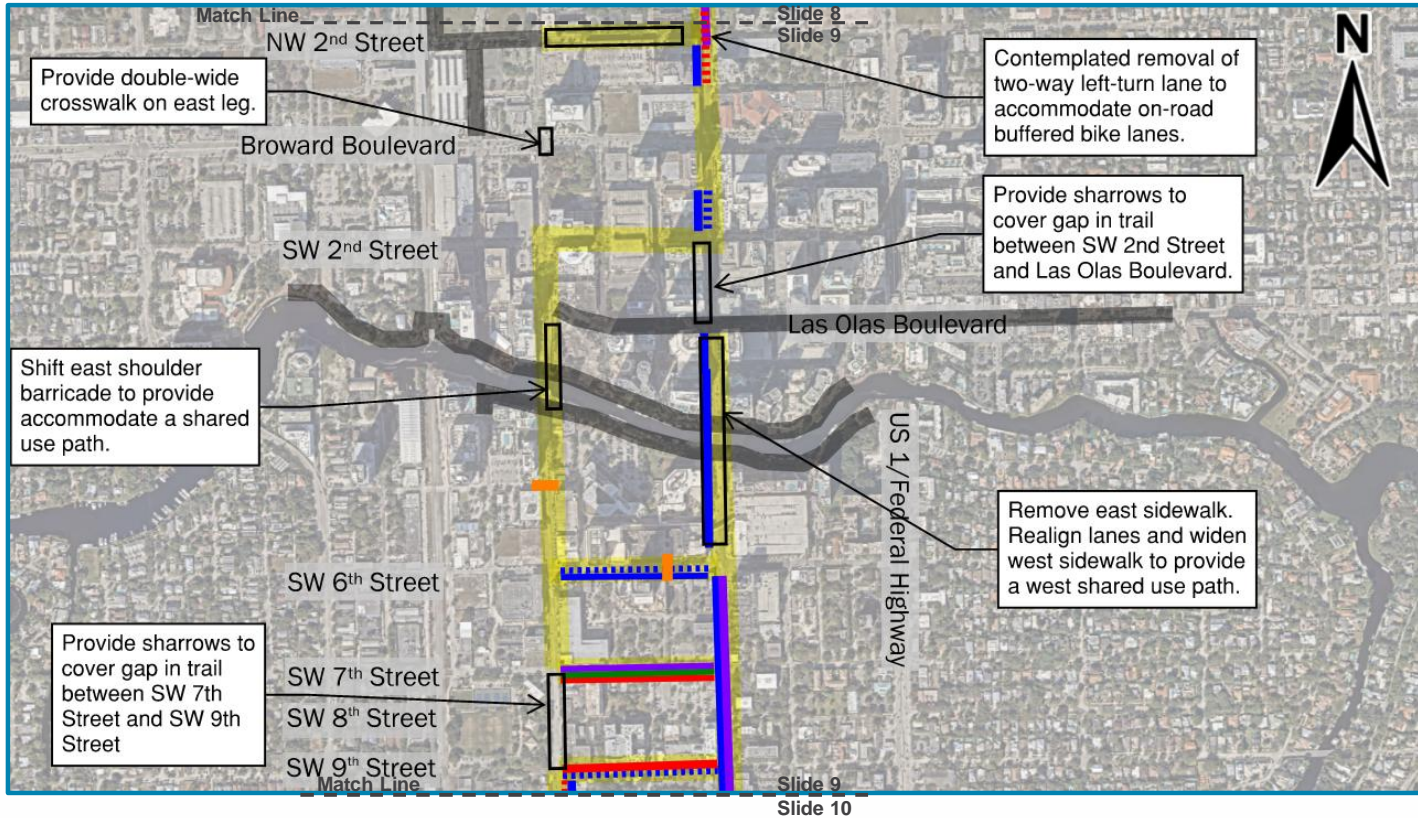


Legend:

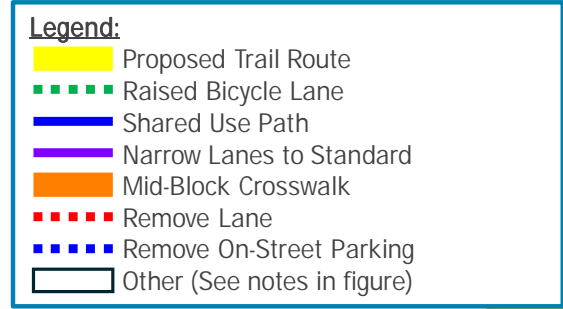
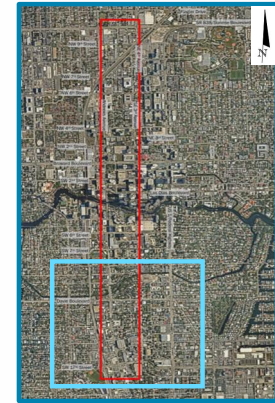
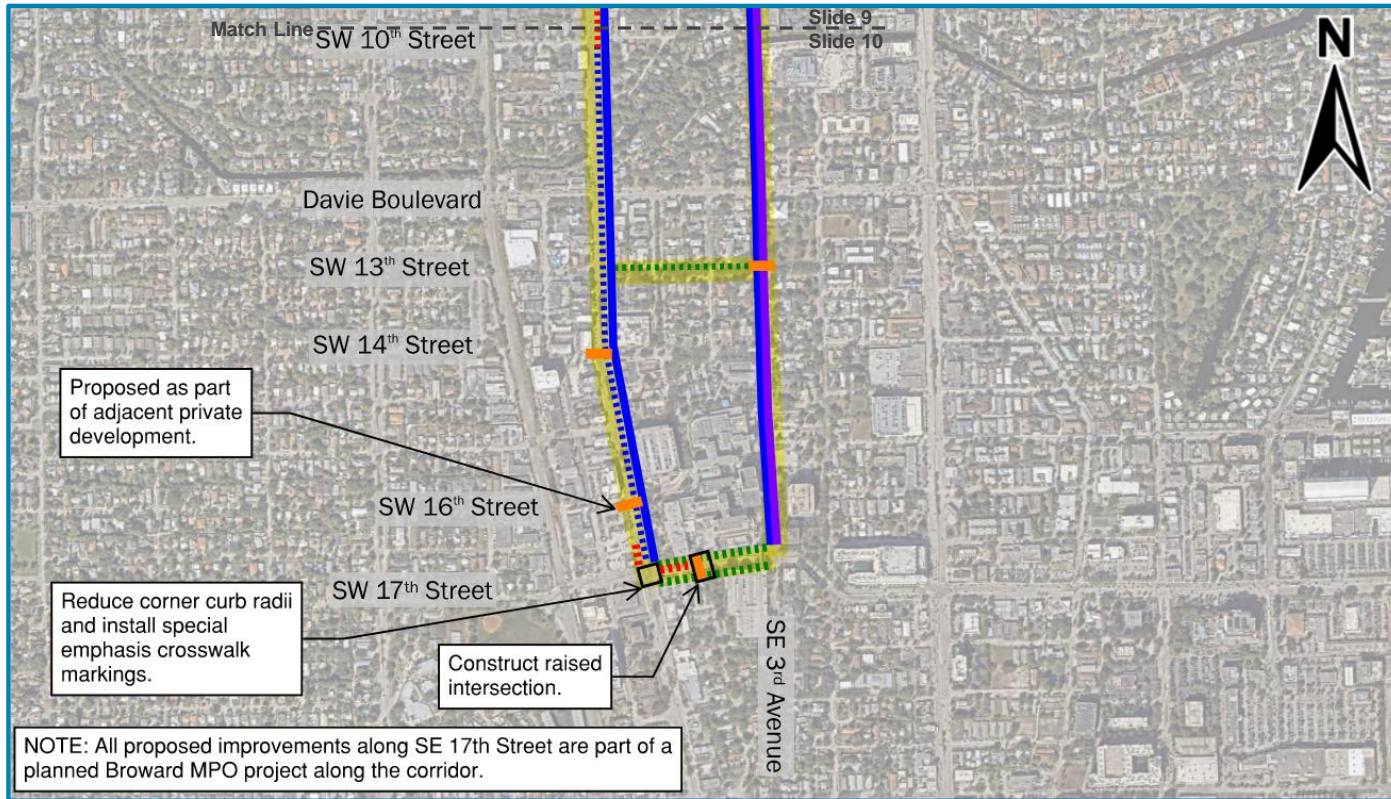
- Multimodal Network Route
- Existing Enhanced Multimodal Facility
- Widen Sidewalk
- Shared Use Path
- Narrow Lanes to Standard
- Mid-Block Crosswalk
- Remove Turn Lane
- Remove On-Street Parking



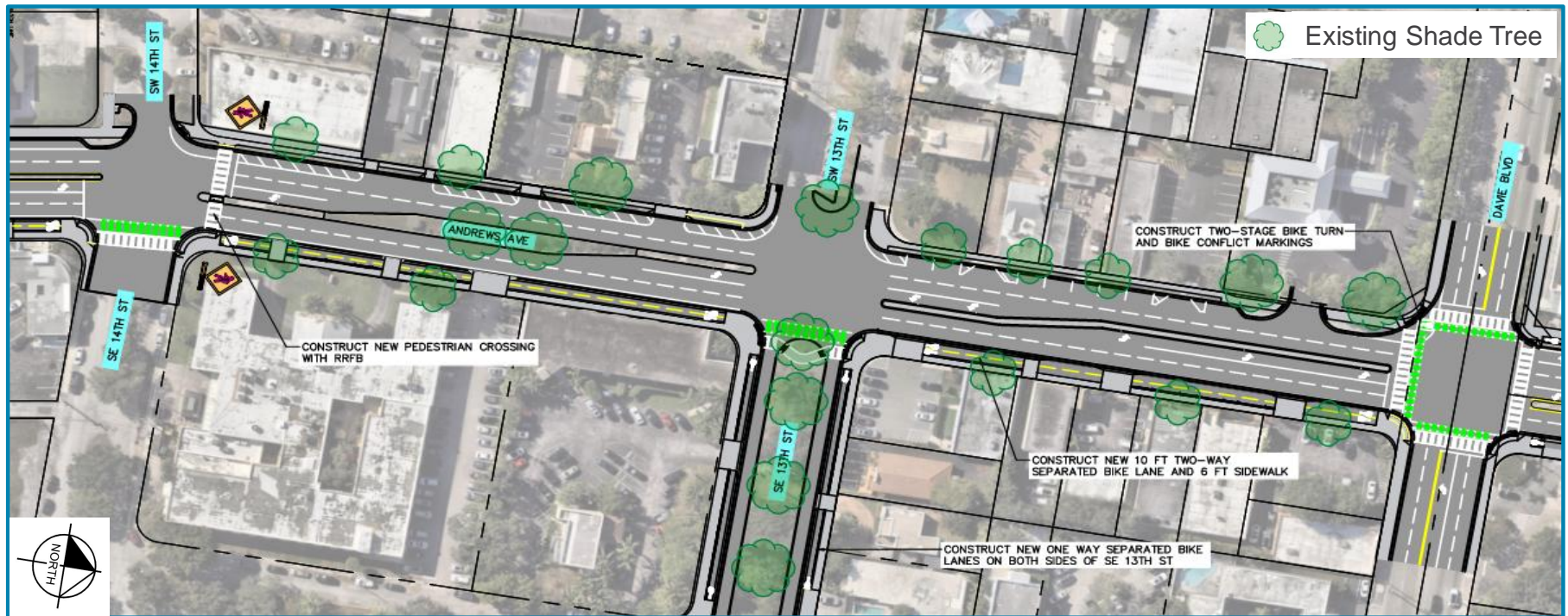
Scenario 4 Improvements



Scenario 4 Improvements



Scenario 4 Improvements

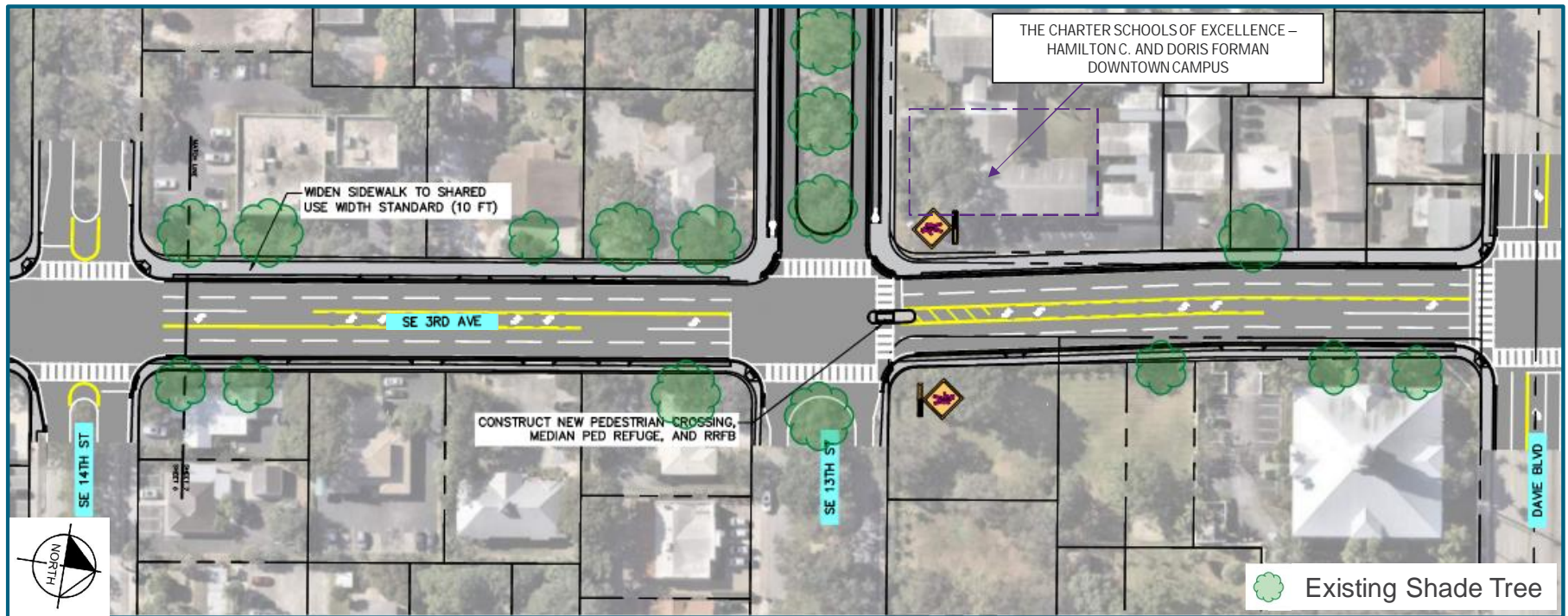


S Andrews Avenue – SW/SE 14th Street to Davie Boulevard

- Construct new 10-foot two-way separate bicycle lane and six (6) foot sidewalk on east side of roadway.
- Mid-block crosswalks with rectangular rapid flashing beacons (RRFBs) proposed along the corridor.



Scenario 4 Improvements

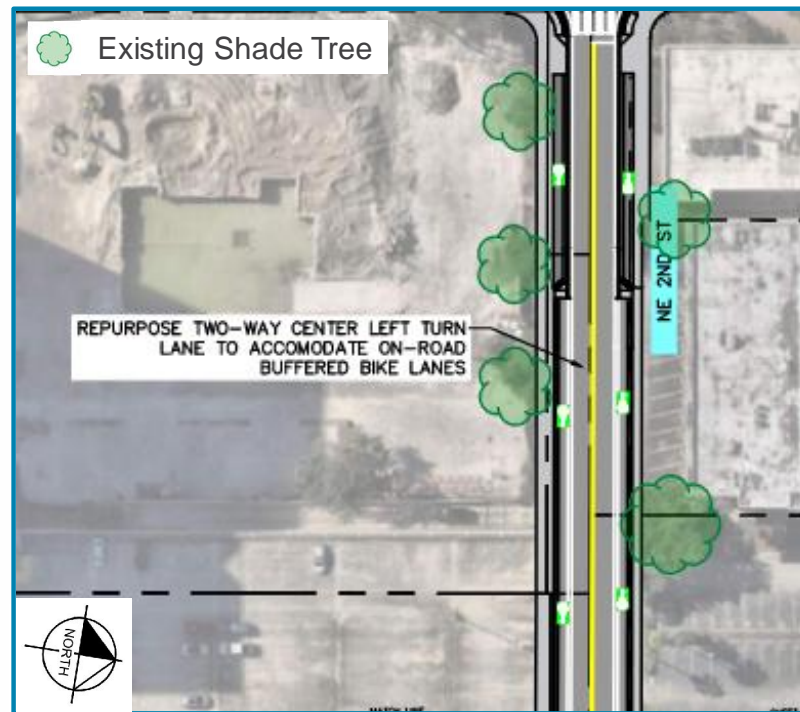


NE/SE 3rd Avenue – SE 14th Street to Davie Boulevard

- Widen sidewalk to shared use width standard (10 feet) on west side of roadway.
 - Mid-block crosswalks with RRFBs proposed along the corridor.



Scenario 4 Improvements

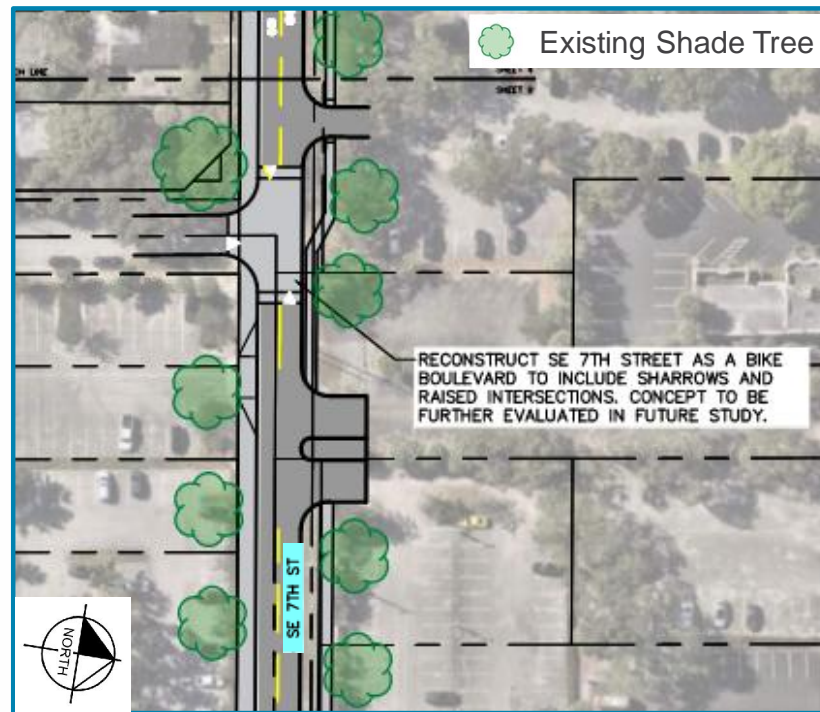


NE 2nd Street

- Repurpose two-way center left-turn lane to accommodate on-street buffered bicycle lanes.



Scenario 4 Improvements

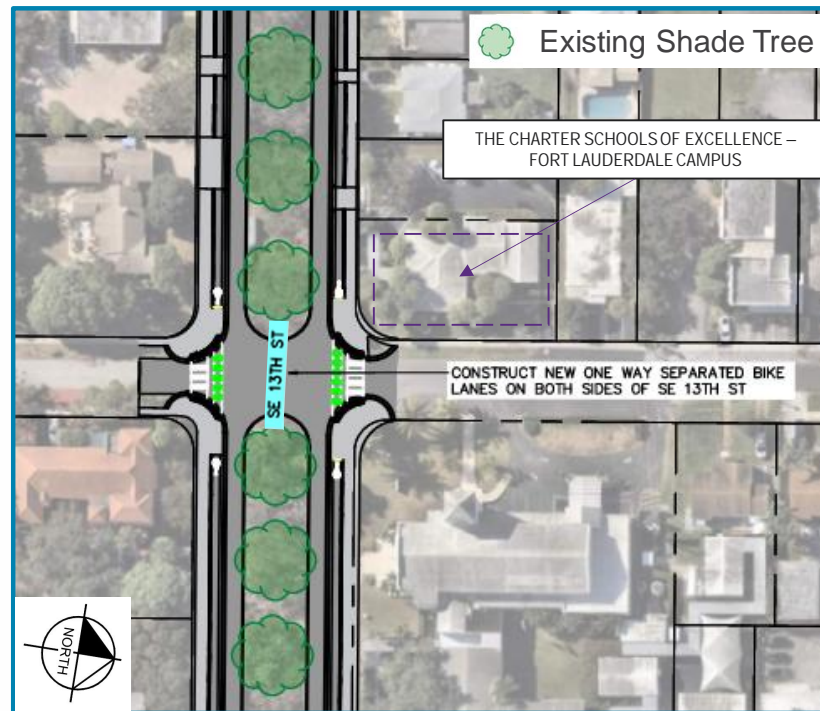


SE 7th Street

- Reconstruct to include bicycle boulevards and raised intersections.



Scenario 4 Improvements



SE 13th Street

- Construct new one-way separated bicycle lanes on either side of roadway.



Project Status/Next Steps

Next Steps

- Public feedback
- City Commission meeting
- Finalize technical report

Project Website

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Breakout

