

# SR 7 MULTIMODAL IMPROVEMENTS CORRIDOR STUDY

TAC and CAC Project Update

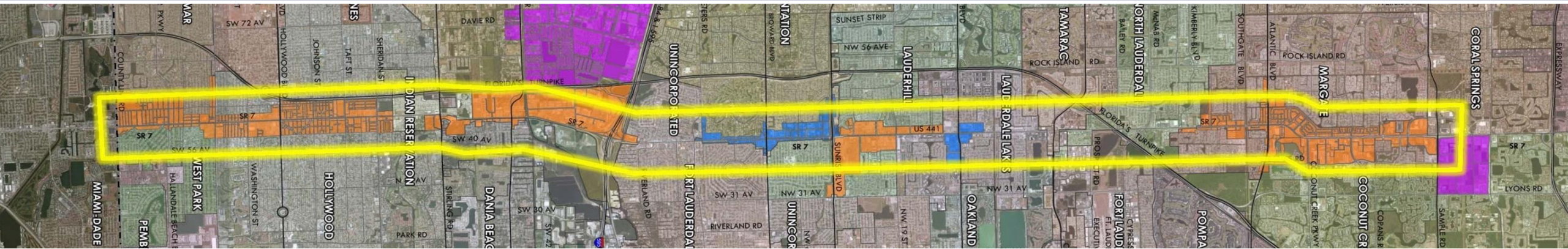


June 2016

- Overview
- Project Recommendations
  - Corridor-wide improvements
  - Short-term network connectivity projects
  - Longer-term intersection improvements
- Next Steps

# Overview: Study Area and Purpose

½ mile on either side of SR 7 Miami-Dade County Line to Sample Road



- Identify congestion management and safety improvements for all modes
- Enhance transit rider, bicyclist, and pedestrian experience
- Develop short-term multimodal improvements for implementation (<5 years)
- Identify longer-term improvements for project development
- Be consistent with National Environmental Protection Act (NEPA)

# Project Recommendations

- Corridor-wide improvements
- Short-term bike/pedestrian network connectivity projects
- Longer-term improvements at major intersections for project development

*\*Project recommendations were presented to PAC and Working Groups in late May; some projects updated to reflect feedback received during review.*



# Overview: Public Outreach Highlights

Public Outreach Activity	Estimated # of Contacts
Email Campaigns <sup>(1)</sup>	3,500+
Text Message Campaigns	183
Transit Intercept Survey	1,143
Online Survey	43
Community Meetings	115+
E-townhall Meeting <sup>(2)</sup>	2,368
PAC and Working Group Participants & Observers	Varies
MPO and Town/City Commission Presentations	Varies
<b>Total</b>	<b>7,350+</b>

*1. Includes emails sent to contacts in the study contact database and also study emails forwarded by other agencies, including SFCS and the Broward MPO.*

*2. Includes the number of people that accepted the phone call to participate, plus the 21 people that participated online and in person.*

# Corridor-Wide Improvements

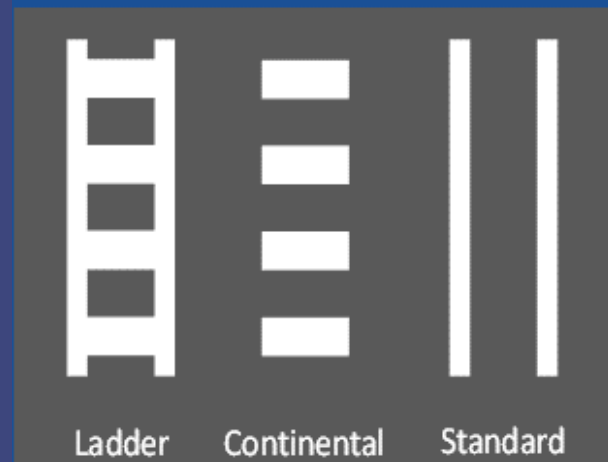
- Corridor-wide improvements discussed at previous PAC meetings



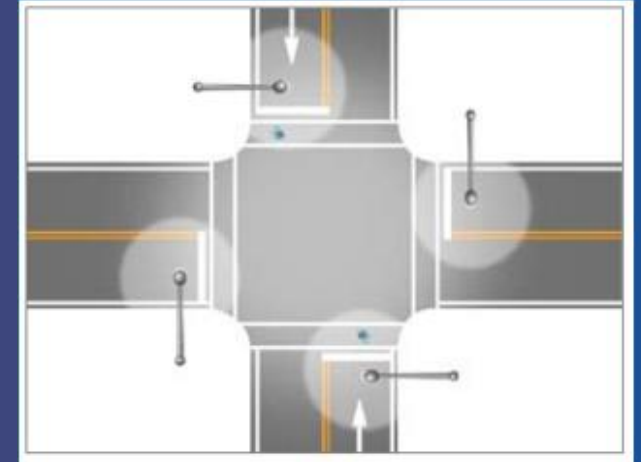
Pedestrian  
Countdown Signal



Right-Turn 'Yield  
to Pedestrian'  
Sign



Enhanced Crosswalk  
Markings



Enhanced Intersection  
Lighting

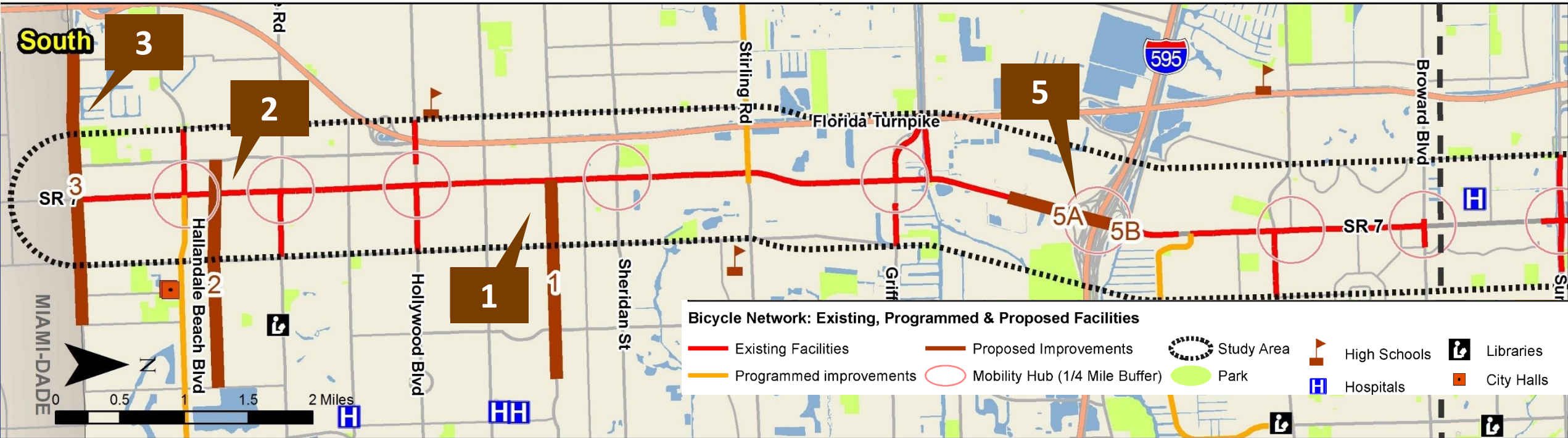
# Bike/Pedestrian Network Connectivity Improvements

- Evaluated bicycle and pedestrian network connectivity projects presented to PAC at March meeting through:
  - Field/Google Earth review
  - Engineering assessment for constructability and ROW constraints
  - LRE planning cost estimates
- Projects prioritization based on:

- Project Benefit
- Existing conditions
  - Demand potential (density, land use)
  - Network connectivity
  - Safety

- Project Impacts
- ROW (minor)
  - Infrastructure
  - Community
  - Cost

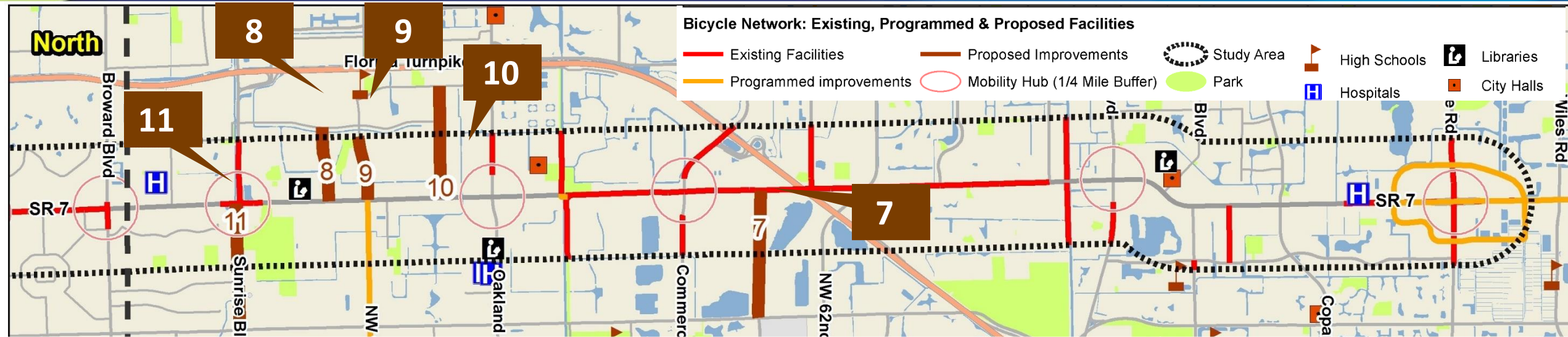
# Bike Facility Improvements (South Working Group)



#	City	On (From/To)	Description (Length)	Planning Cost Estimate	Rank
1	Hollywood	Taft St (from SR 7 to N 40th Ave)	Widen pavement and reduce lane widths (if possible) to provide bike lanes (1.50 MI)	\$2.02 M	15
2	West Park, Miramar	SW 25th St (from SW 62nd Ave to SW 40th Ave)	Provide shared lane arrows and bike lanes (1.7 MI)	\$480,000	13
3	West Park, Pembroke Park	Countyline Rd (from SW 68th Ln to SW 48th Ave)	Widen pavement and reduce lane widths (if possible) to provide bike lanes (2.15 MI)	\$3.8 M	6
5	Davie	SR 7 (from Oakes Rd/SW 36th St to New River Greenway Trail)	Provide a shared use along the center median of SR 7 (0.90 MI)	\$2.2 M	2

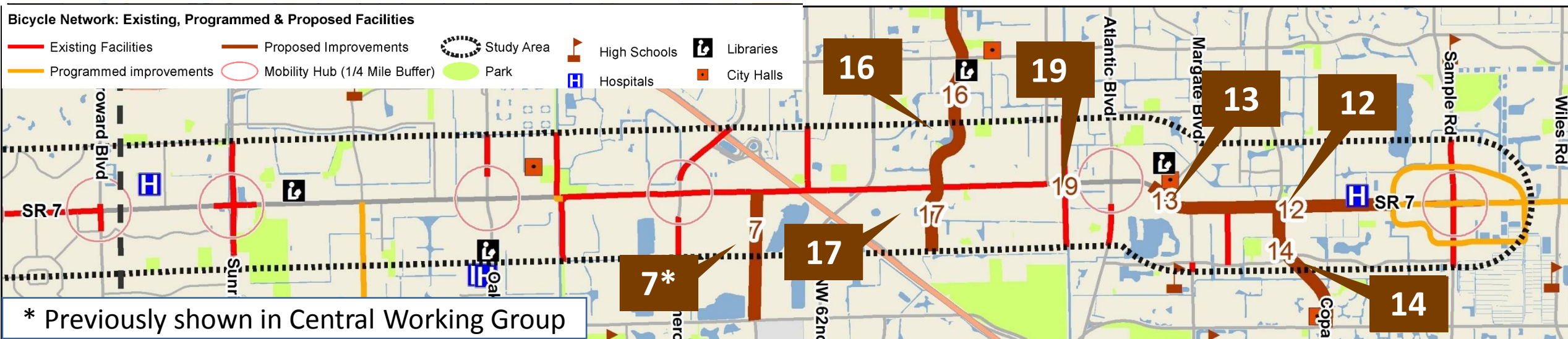


# Bike Facility Improvements (Central Working Group)



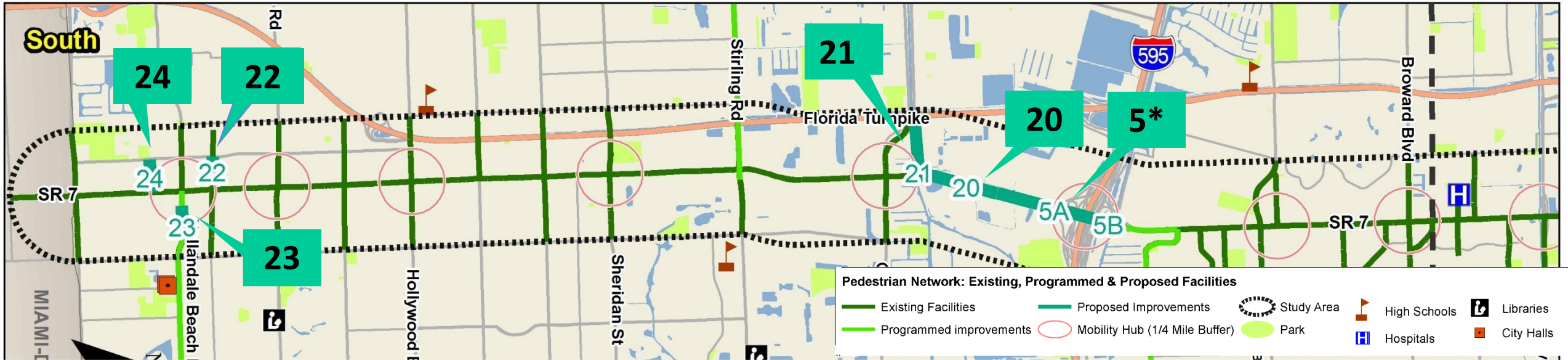
#	City	On (From/To)	Description (Length)	Planning Cost Estimate	Rank
7	Fort Lauderdale, North Lauderdale	W Prospect Rd (from SR 7 to NW 31st Ave)	Eliminate 3 <sup>rd</sup> eastbound lane to NW 38 <sup>th</sup> Ave and widening pavement from NW 38 <sup>th</sup> to NW 31 <sup>st</sup> to provide bike lanes (1.00 MI)	\$2.1 M	18
8	Lauderhill	NW 16th St (from NW 47th Ave to SR 7)	Widen pavement and reduce lane widths (if possible) to provide bike lanes (0.55 MI)	\$974,000	17
9	Lauderhill	NW 19th St (from NW 47th Ave to SR 7)	Widen pavement and reduce lane widths (if possible) to provide bike lanes (0.60 MI)	\$1.06 M	11
10	Lauderhill, Lauderdale Lakes	NW 26th St (from NW 49th Ave to SR 7)	Widen pavement and reduce lane widths (if possible) to provide bike lanes (0.87 MI)	\$1.4 M	11
11	Lauderhill, Plantation	Sunrise Blvd Canal (from SR 7 to SW 31st Ave)	Continue trail to NW 31st Ave and enhance SR 7 crossing (1.10 MI)	\$615,000	21

# Bike Facility Improvements (North Working Group)



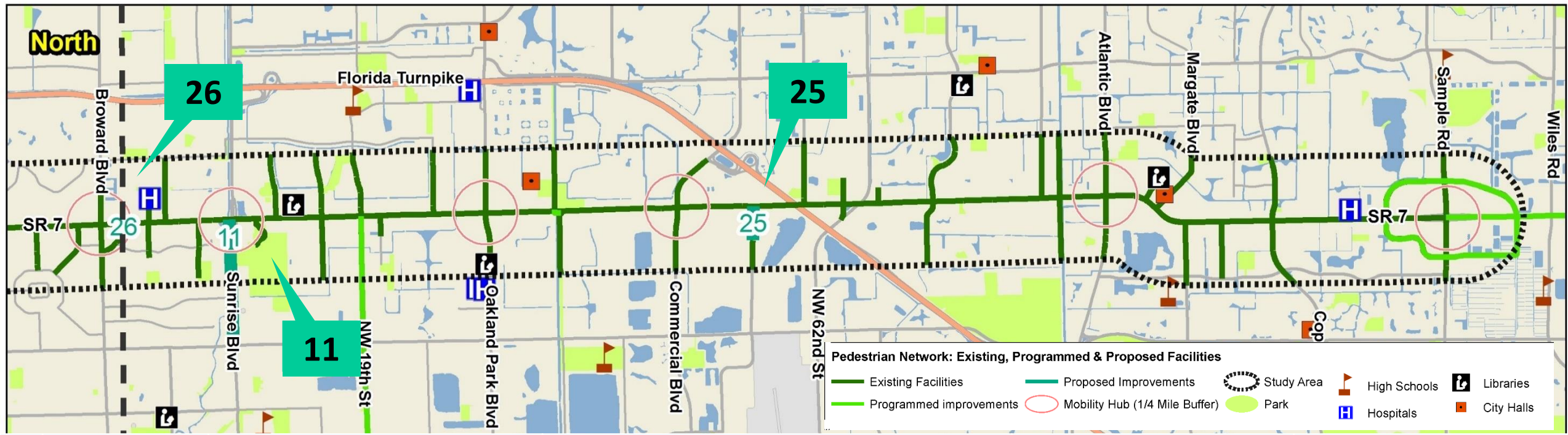
#	City	On (From/To)	Description (Length)	Planning Cost Estimate	Rank
7	Fort Lauderdale, North Lauderdale	W Prospect Rd (from SR 7 to NW 31st Ave)	Eliminate 3 <sup>rd</sup> eastbound lane to NW 38 <sup>th</sup> Ave and widening pavement from NW 38 <sup>th</sup> to NW 31 <sup>st</sup> to provide bike lanes (1.00 MI)	\$2.1 M	18
12	Margate	SR 7 (from Seton Dr to NW 31 <sup>st</sup> St)	Provide 12' sidewalks (1.60 MI)	\$320,000	3
13	Margate	SR 7 (from Merrill Rd to Seton Dr)	Provide protected bike lane with landscaped buffer (0.40 MI)	\$600,000	3
14	Margate, Coconut Creek	Copans Rd (from SR 7 to Lyons Rd)	Widen pavement and reduce lane width (if possible) to provide bike lanes (1.00 MI)	\$2.6 M	8
16	North Lauderdale	Kimberly Blvd (from SW 81 <sup>st</sup> Ave to SR 7)	Road diet to provide bike lanes (2.10 MI); potential roundabout at SW 64 <sup>th</sup>	\$3.7 M	9
17	Margate	SW 11th St (from SR 7 to SW 49th Ter)	Widen pavement for bike lanes or sharrows and widen sidewalks (0.75 MI)	\$1.1 M	21
19	Margate	SR 7 at Cypress Creek Greenway/C-14 Canal	Mid-block crossing with pedestrian hybrid beacon for multi-use trail and wide sidewalks (0.10 MI)	\$150,000	1

# Pedestrian Improvements (South Working Group)



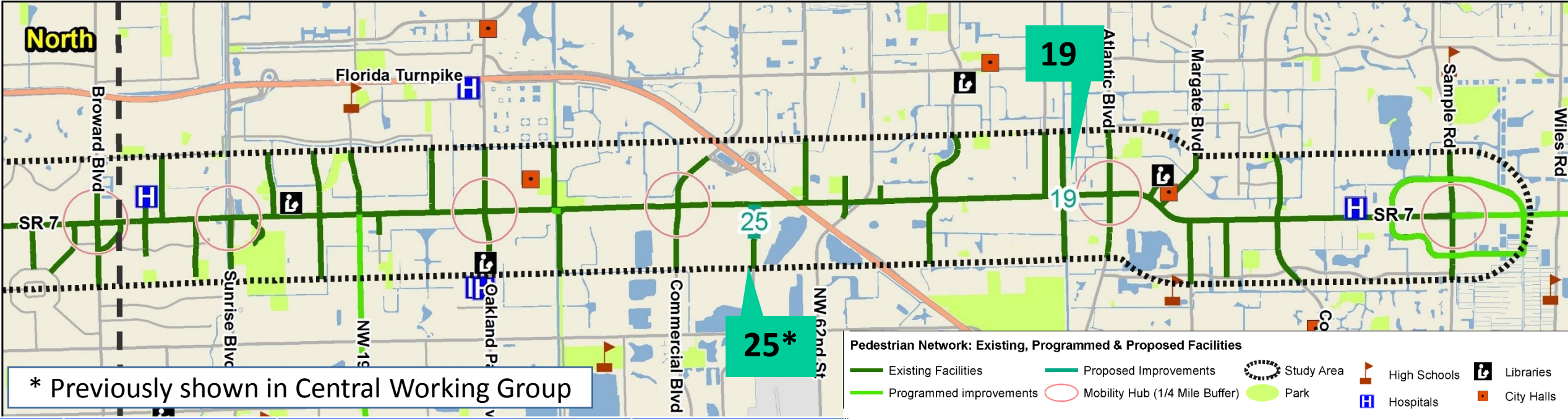
#	City	On (From/To)	Description (Length)	Planning Cost Estimate	Rank
5*	Davie	SR 7 (from Oakes Rd/SW 36th St to New River Greenway Trail)	Provide a shared use along the center median of SR 7 (0.90 MI)	\$2.2 M	2
20	Davie	SR 7 (from SW 45th St to Oakes Rd/SW 36th St)	Construct sidewalk on east side of SR 7 (0.65 MI)	\$330,000	14
21	Davie	SW 45th St (from the Turnpike to SR 7)	Construct wide sidewalk along north side of road (0.45 MI)	\$268,000	20
22	Miramar	SW 25th St (from SW 64th Ave to SR 7)	Complete gaps to provide sidewalk on north side (0.50 MI)	\$350,000	19
23	West Park	Hallandale Beach Blvd (from Edmund Rd to SW 58th Ave)	Delineate sidewalk from paved parking along north side (0.13 MI)	\$50,000	9
24	Miramar	SW 33rd St (from SW 62nd Ave to SR 7)	Complete sidewalk along north side of road (0.25 MI)	\$120,000	16

# Pedestrian Improvements (Central Working Group)



#	City	On (From/To)	Description (Length)	Planning Cost Estimate	Rank
11	Lauderhill, Plantation	Sunrise Blvd Canal (from SR 7 to SW 31st Ave)	Continue trail to NW 31st Ave and enhance SR 7 crossing (1.10 MI)	\$615,000	21
25	Fort Lauderdale, North Lauderdale	W Prospect Rd (from SR 7 to NW 36th Ave)	Complete sidewalk along south side of road (0.25)	\$120,000	6
26	Plantation	SR 7 (north of Broward Boulevard)	Provide mid-block crosswalk with pedestrian hybrid beacon, median modifications, and bus stop relocation (0.10 MI)	\$250,000	5

# Pedestrian Improvements (North Working Group)



#	City	On (From/To)	Description (Length)	Planning Cost Estimate	Rank
19	Margate	SR 7 at Cypress Creek Greenway/C-14 Canal	Mid-block crossing for multi-use trail and wide sidewalks (0.10 MI)	\$150,000	1
25	Fort Lauderdale, North Lauderdale	W Prospect Rd (from SR 7 to NW 36th Ave)	Complete sidewalk along south side of road (0.25)	\$120,000	6

# Major Intersection Project Recommendations

- Evaluated 15 major intersections along SR 7
- Recommendations developed based on existing conditions data, field review observations, engineering analysis and judgment, input from the PAC/Working Groups, and discussions with BCT and FDOT
- Abbreviated vs. Full Study intersections



- Detailed Concepts
  - Miramar Parkway/Hallandale Beach Boulevard
  - **Commercial Boulevard**
  - Davie Boulevard
  - Broward Boulevard
  - Oakland Park Boulevard
  - Atlantic Boulevard
- Abbreviated Study Recommendations
  - Pembroke Road
  - Hollywood Boulevard
  - Johnson Street
  - Sheridan Street
  - Stirling Road
  - Riverland Road
  - Lauderhill Mall Area
  - Kimberly Boulevard

# SR 7 & Commercial Blvd

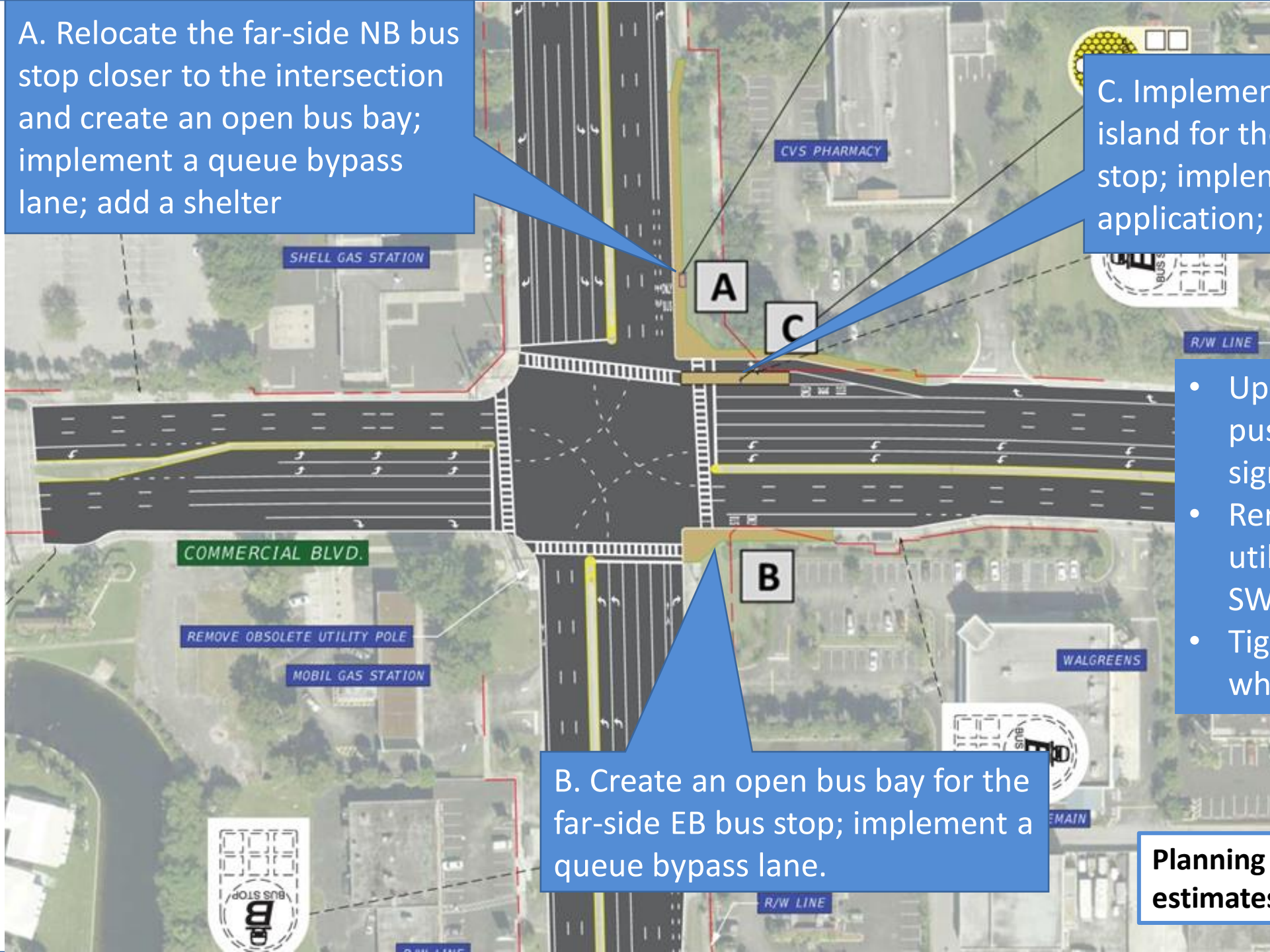
A. Relocate the far-side NB bus stop closer to the intersection and create an open bus bay; implement a queue bypass lane; add a shelter

C. Implement a pedestrian/bus island for the near-side WB bus stop; implement a queue jump application; provide a shelter.

B. Create an open bus bay for the far-side EB bus stop; implement a queue bypass lane.

- Upgrade pedestrian push buttons & signage
- Remove obsolete utility pole from the SW corner
- Tighten all curb radii where feasible

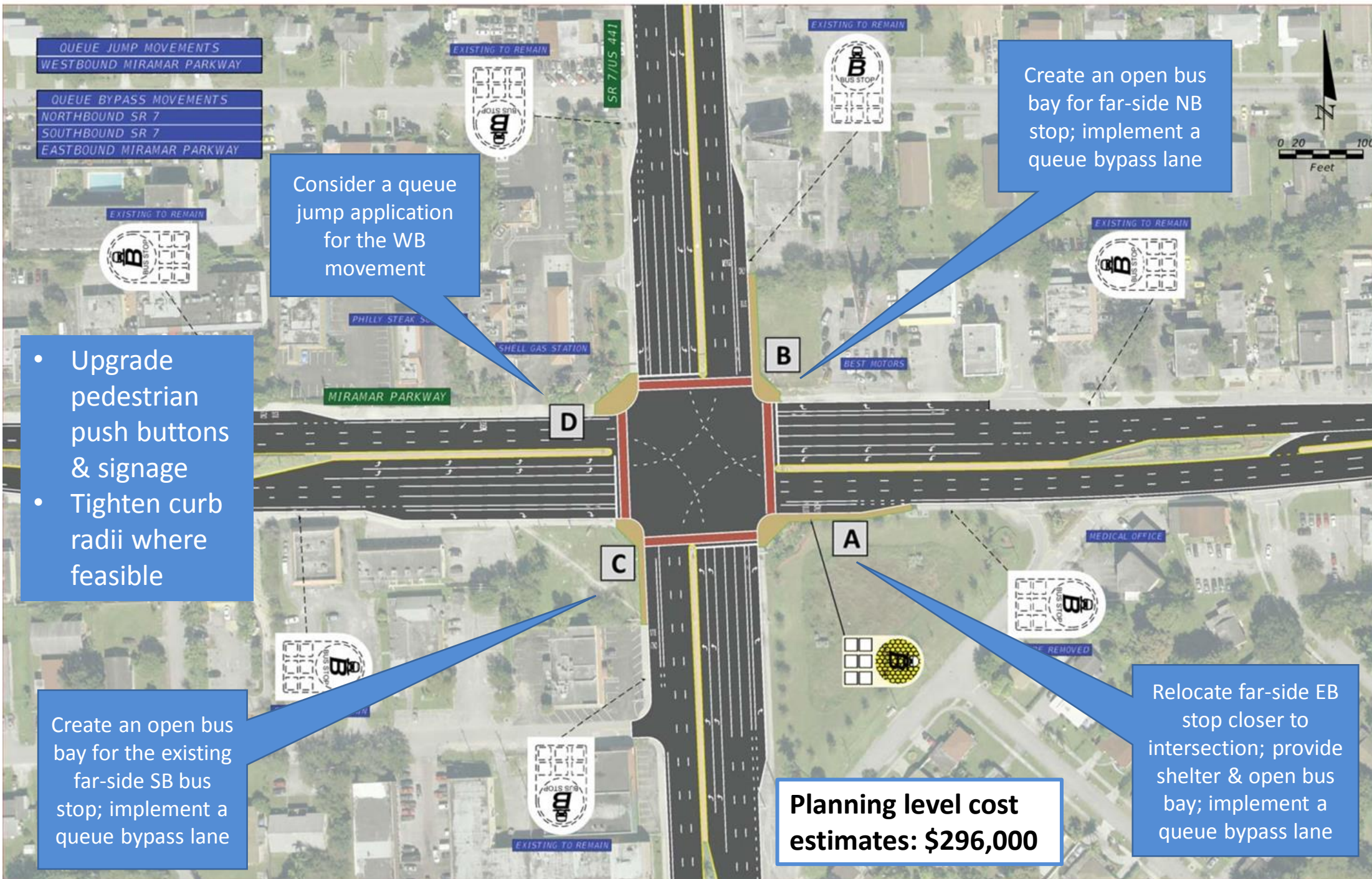
**Planning level cost estimates: \$302,000**





- Finalize implementation plan and documentation
- City Commission Briefings throughout June (see website for list of dates)
- Present to the Broward MPO Board - July 14<sup>th</sup>

# SR 7 & Miramar Pkwy/ Hallandale Beach Blvd



QUEUE JUMP MOVEMENTS  
WESTBOUND MIRAMAR PARKWAY

QUEUE BYPASS MOVEMENTS  
NORTHBOUND SR 7  
SOUTHBOUND SR 7  
EASTBOUND MIRAMAR PARKWAY

Consider a queue jump application for the WB movement

- Upgrade pedestrian push buttons & signage
- Tighten curb radii where feasible

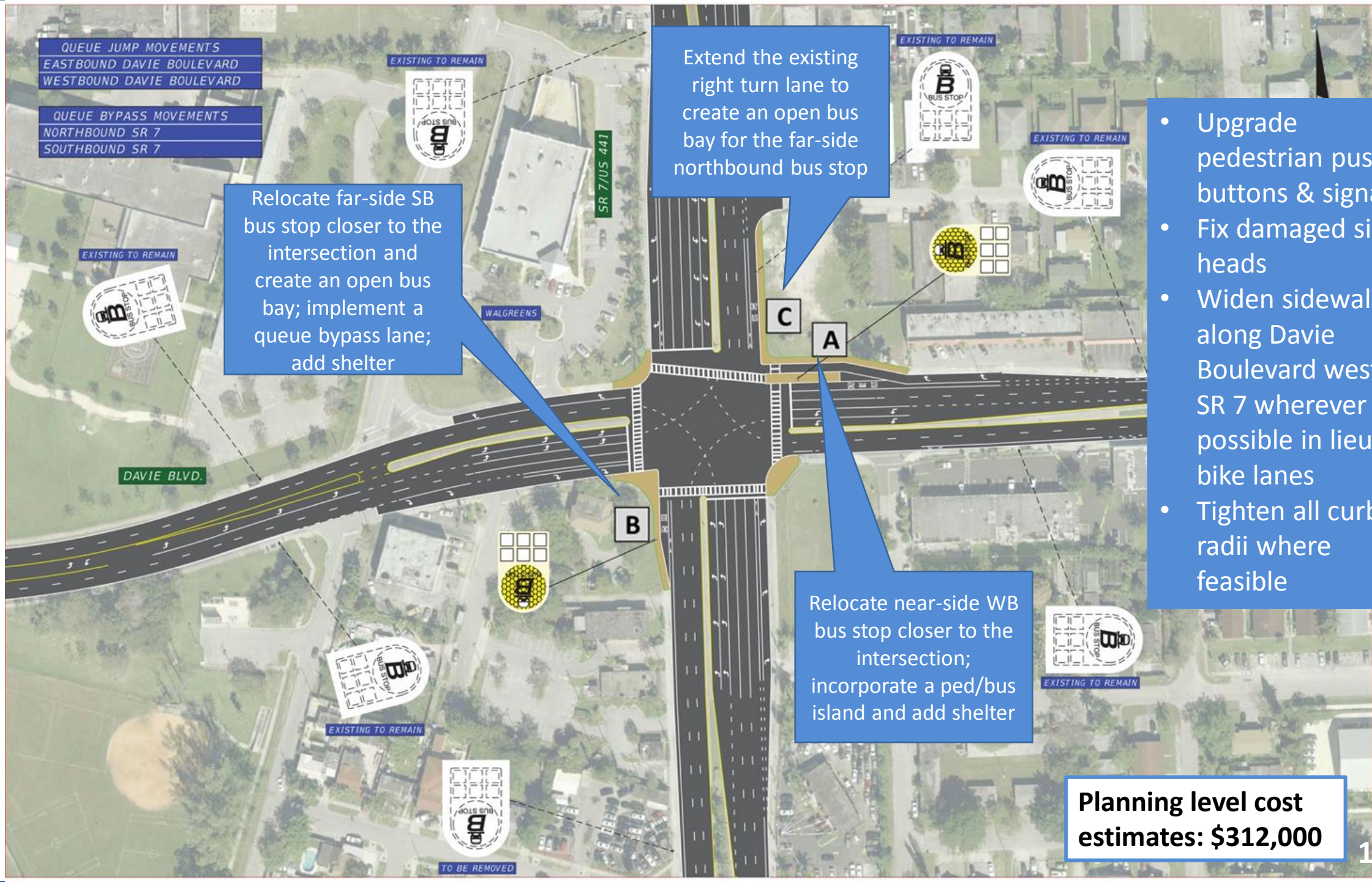
Create an open bus bay for the existing far-side SB bus stop; implement a queue bypass lane

**Planning level cost estimates: \$296,000**

Create an open bus bay for far-side NB stop; implement a queue bypass lane

Relocate far-side EB stop closer to intersection; provide shelter & open bus bay; implement a queue bypass lane

# SR 7 & Davie Blvd



QUEUE JUMP MOVEMENTS  
EASTBOUND DAVIE BOULEVARD  
WESTBOUND DAVIE BOULEVARD

QUEUE BYPASS MOVEMENTS  
NORTHBOUND SR 7  
SOUTHBOUND SR 7

Relocate far-side SB bus stop closer to the intersection and create an open bus bay; implement a queue bypass lane; add shelter

Extend the existing right turn lane to create an open bus bay for the far-side northbound bus stop

Relocate near-side WB bus stop closer to the intersection; incorporate a ped/bus island and add shelter

- Upgrade pedestrian push buttons & signage
- Fix damaged signal heads
- Widen sidewalks along Davie Boulevard west of SR 7 wherever possible in lieu of bike lanes
- Tighten all curb radii where feasible

**Planning level cost estimates: \$312,000**

# SR 7 & Broward Blvd

QUEUE JUMP MOVEMENTS  
NORTHBOUND SR 7  
EASTBOUND BROWARD BLVD.

QUEUE BYPASS MOVEMENTS  
WESTBOUND BROWARD BLVD.

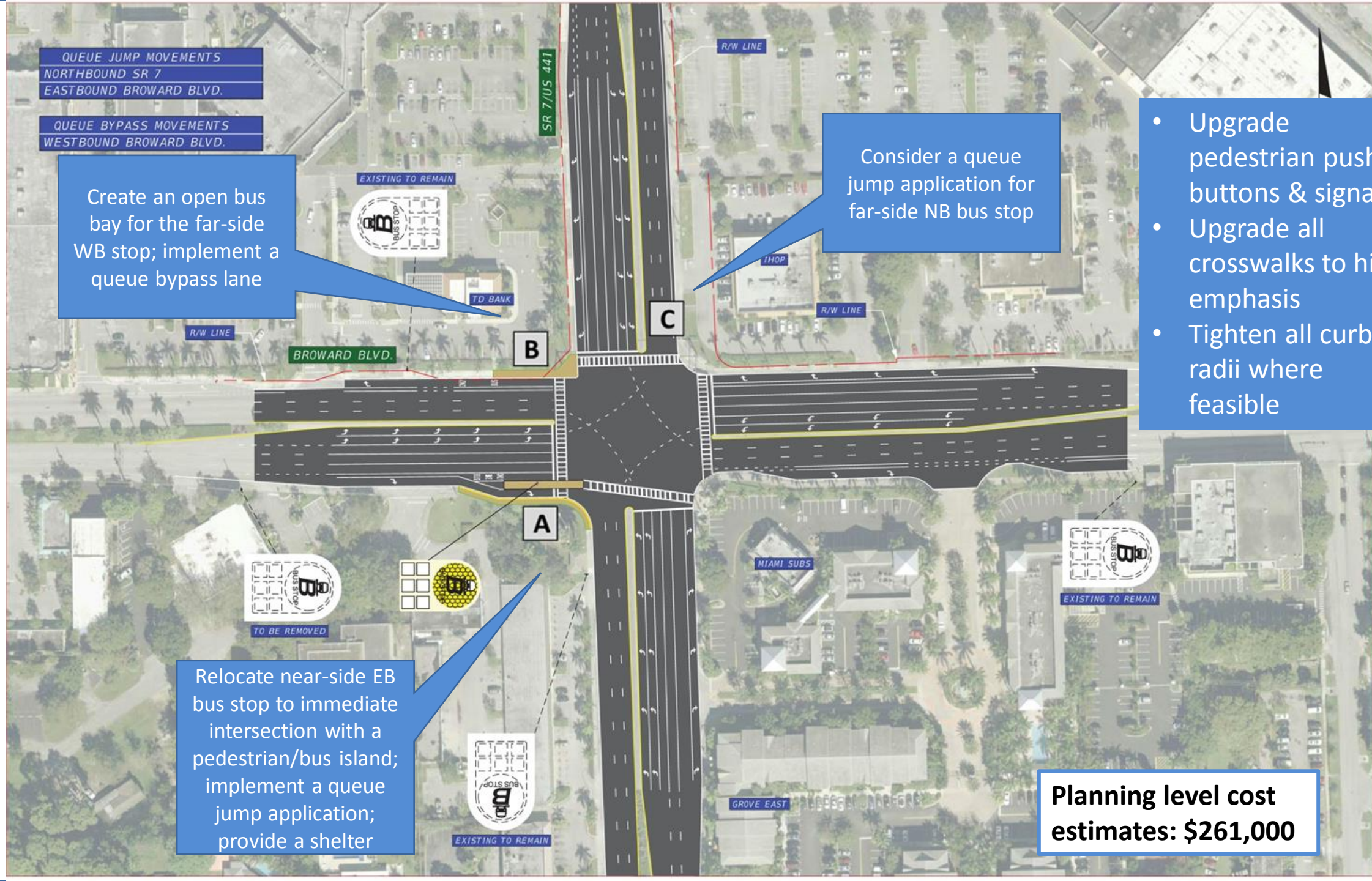
Create an open bus bay for the far-side WB stop; implement a queue bypass lane

Consider a queue jump application for far-side NB bus stop

Relocate near-side EB bus stop to immediate intersection with a pedestrian/bus island; implement a queue jump application; provide a shelter

- Upgrade pedestrian push buttons & signage
- Upgrade all crosswalks to high emphasis
- Tighten all curb radii where feasible

Planning level cost estimates: \$261,000



# SR 7 & Oakland Park Blvd

QUEUE JUMP MOVEMENTS  
EASTBOUND OAKLAND PARK BLVD.  
WESTBOUND OAKLAND PARK BLVD.

QUEUE BYPASS MOVEMENTS  
NORTHBOUND SR 7  
SOUTHBOUND SR 7

EXISTING TO REMAIN

SR 7/US 441

Create an open bus bay for the far-side NB bus stop; implement a queue bypass lane

EXISTING TO REMAIN

BURGER KING

R/W LINE

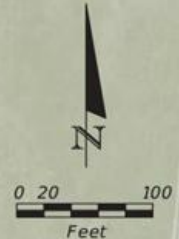
SHELL GAS STATION

OAKLAND PARK BLVD.

C

A

Relocate near-side WB bus stop to immediate intersection with a ped/bus island; implement a queue jump application; provide a shelter



- Upgrade pedestrian push buttons & signage
- Upgrade all crosswalks to high emphasis
- Verify intersection lighting (replace missing luminaire at NE corner)
- Widen sidewalks wherever feasible in lieu of bike lanes
- Tighten all curb radii where feasible

Create an open bus bay for the far-side SB bus stop; implement a queue bypass lane

AT&T

EXISTING TO REMAIN

B

WALGREENS

EXISTING TO REMAIN

Relocate the far-side EB closer to the intersection; include a traditional 'closed' bus bay and a shelter; implement a queue jump application

D

BP GAS STATION

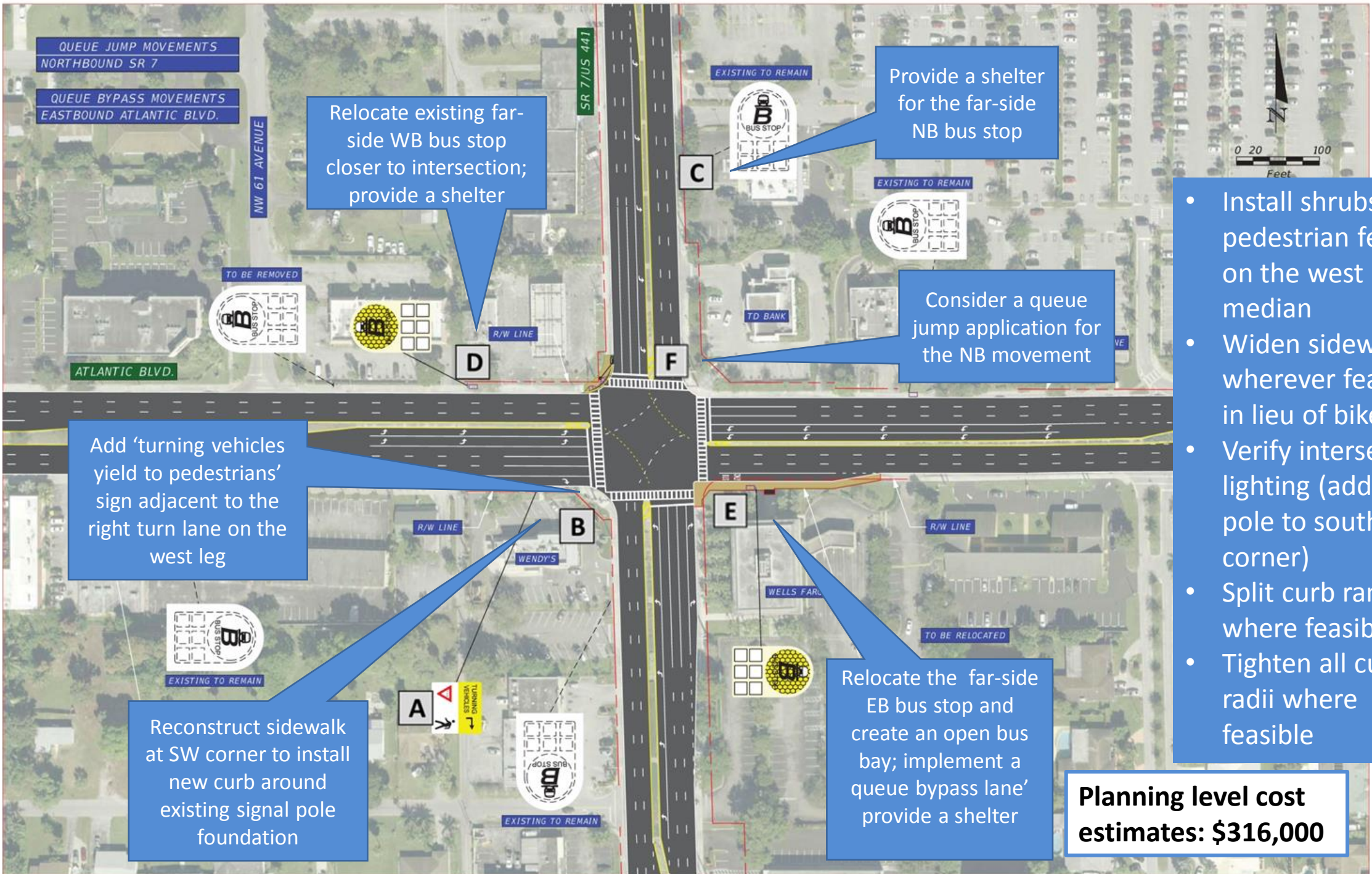
TACO BELL

R/W LINE

TO BE REMOVED

Planning level cost estimates: \$268,000

# SR 7 & Atlantic Blvd



QUEUE JUMP MOVEMENTS  
NORTHBOUND SR 7

QUEUE BYPASS MOVEMENTS  
EASTBOUND ATLANTIC BLVD.

Relocate existing far-side WB bus stop closer to intersection; provide a shelter

Provide a shelter for the far-side NB bus stop

Consider a queue jump application for the NB movement

Add 'turning vehicles yield to pedestrians' sign adjacent to the right turn lane on the west leg

Reconstruct sidewalk at SW corner to install new curb around existing signal pole foundation

Relocate the far-side EB bus stop and create an open bus bay; implement a queue bypass lane' provide a shelter

- Install shrubs or pedestrian fencing on the west leg median
- Widen sidewalks wherever feasible in lieu of bike lanes
- Verify intersection lighting (add light pole to southeast corner)
- Split curb ramps where feasible
- Tighten all curb radii where feasible

**Planning level cost estimates: \$316,000**

# Abbreviated Study Intersection Recommendations

Intersection of SR 7 and:	Upgrade Crosswalks to High Emphasis	Pedestrian Push Buttons	Pedestrian Infrastructure Improvements	Relocate Existing Bus Stop Closer to Intersection	Transit Operations – Open Bus Bay	Transit Operations – Queue Jump	Transit Infrastructure Improvements (Add Bus Shelters)	Lighting Improvements	Other
<b>Pembroke Road</b>	x	x	Construct sidewalk west side of SR 7 north of Pembroke Rd  Complete sidewalk network on the west side of SR 7 south of Pembroke Rd	Far-side SB stop	Far-side NB stop	Queue bypass lane for NB stop	Shelter at far-side NB and SB stops		Tighten up cur radius at all corners (SE & NW priority)  Relocate curb ramp at SW corner
<b>Hollywood Boulevard</b>	x	x			Note: NB and SB bays programmed under SR 7 reconstruction project	NB and SB directions			
<b>Johnson Street</b>	x	x		Far-side NB and WB stops			Far-side NB and WB stops		
<b>Sheridan Street</b>	x			Far-side EB and WB stops	Far-side EB stops	Far-side EB stops	Far-side NB and EB stop	Verify intersection lighting	

# Abbreviated Study Intersection Recommendations

Intersection of SR 7 and:	Upgrade Crosswalks to High Emphasis	Pedestrian Push Buttons	Pedestrian Infrastructure Improvements	Relocate Existing Bus Stop Closer to Intersection	Transit Operations – Open Bus Bay	Transit Operations – Queue Jump	Transit Infrastructure Improvements (Add Bus Shelters)	Lighting Improvements	Other
Stirling Road	x			Far-side NB & SB stops			All existing stops		
Riverland Road	x							Verify intersection lighting Replace missing light pole (NE corner)	Tighten up cur radius at NW corner
Lauderhill Mall Area	x	x		NB stop (across from the programmed transfer center)					
Kimberly Boulevard	x	x						Verify intersection lighting Replace missing light pole (SW corner)	Fix damaged signal heads
Sample Road/Turtle Creek Drive		x		Far-side NB stop			Far-side NB stop		



# Overview: Project Advisory Committee



Broward MPO



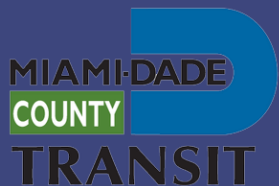
Broward County Transit



Broward County  
Traffic Engineering Department



FDOT District 4  
(Various Offices)



Miami-Dade Transit



Miami-Dade MPO



South Florida Regional  
Transportation Authority



South Florida Regional  
Planning Council

- Grouped by geography (south, central, north)

South	Central	North
Dania Beach	Fort Lauderdale	Coconut Creek
Davie	Lauderdale Lakes	Coral Springs
Hollywood	Lauderhill	North Lauderdale
Miramar	Plantation	Margate
Pembroke Park	Tamarac	
Seminole Tribe	Broward County	
West Park		

- Three meetings to review:
  - Initiatives and needs
  - Preliminary recommendations
  - Draft final recommendations

