

Proposed Plan for Regional Mobility & Transportation Enhancements

Broward MPO 40th Anniversary Celebration
Event
November 9, 2017

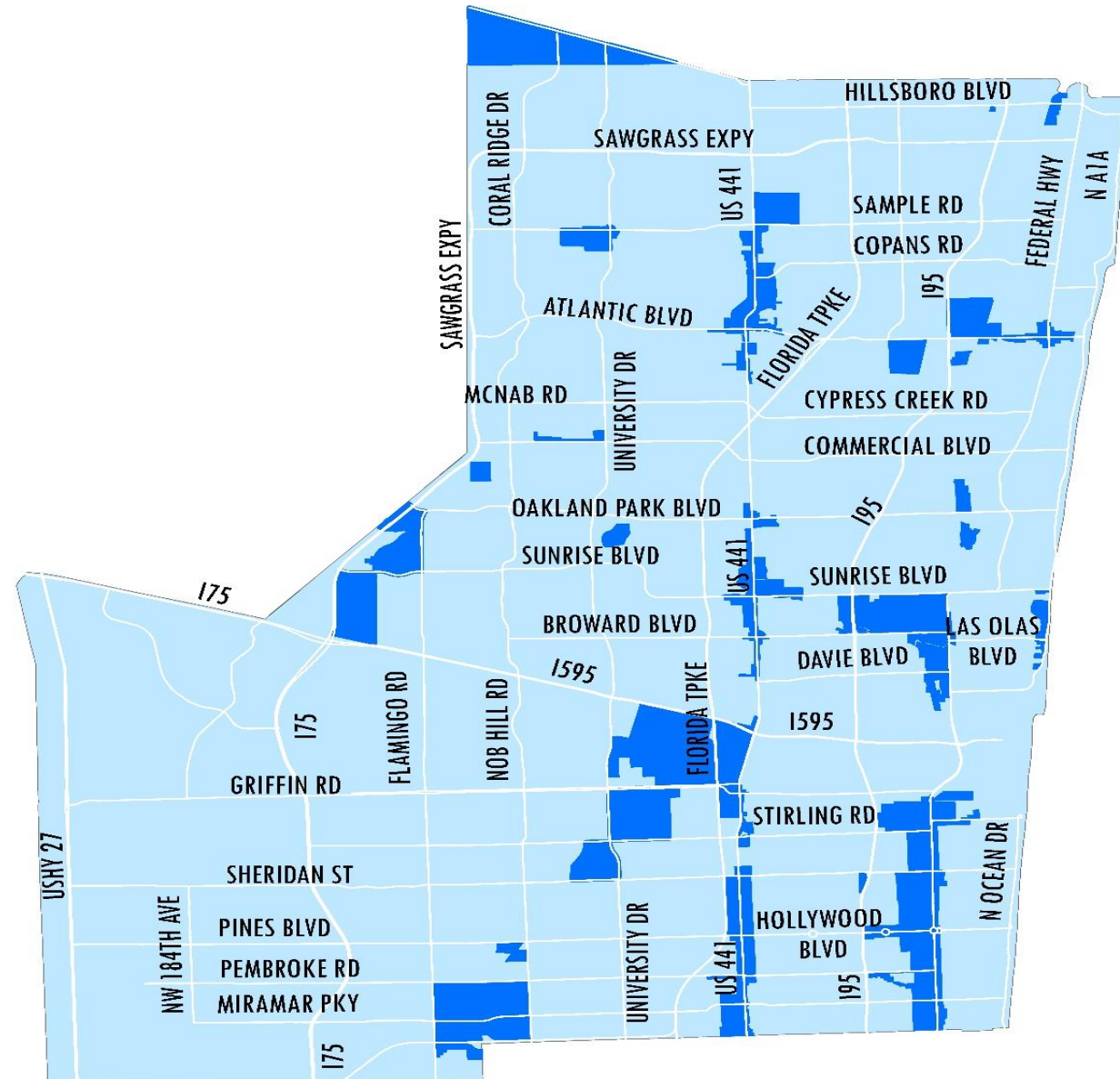
Built-out, but growing

- Population 1.9 million
- <10 sq. miles of vacant land
- Conservation Area precludes westward growth
- Future growth will be redevelopment:
 - Increased density
 - Mixed use
 - Transit-oriented

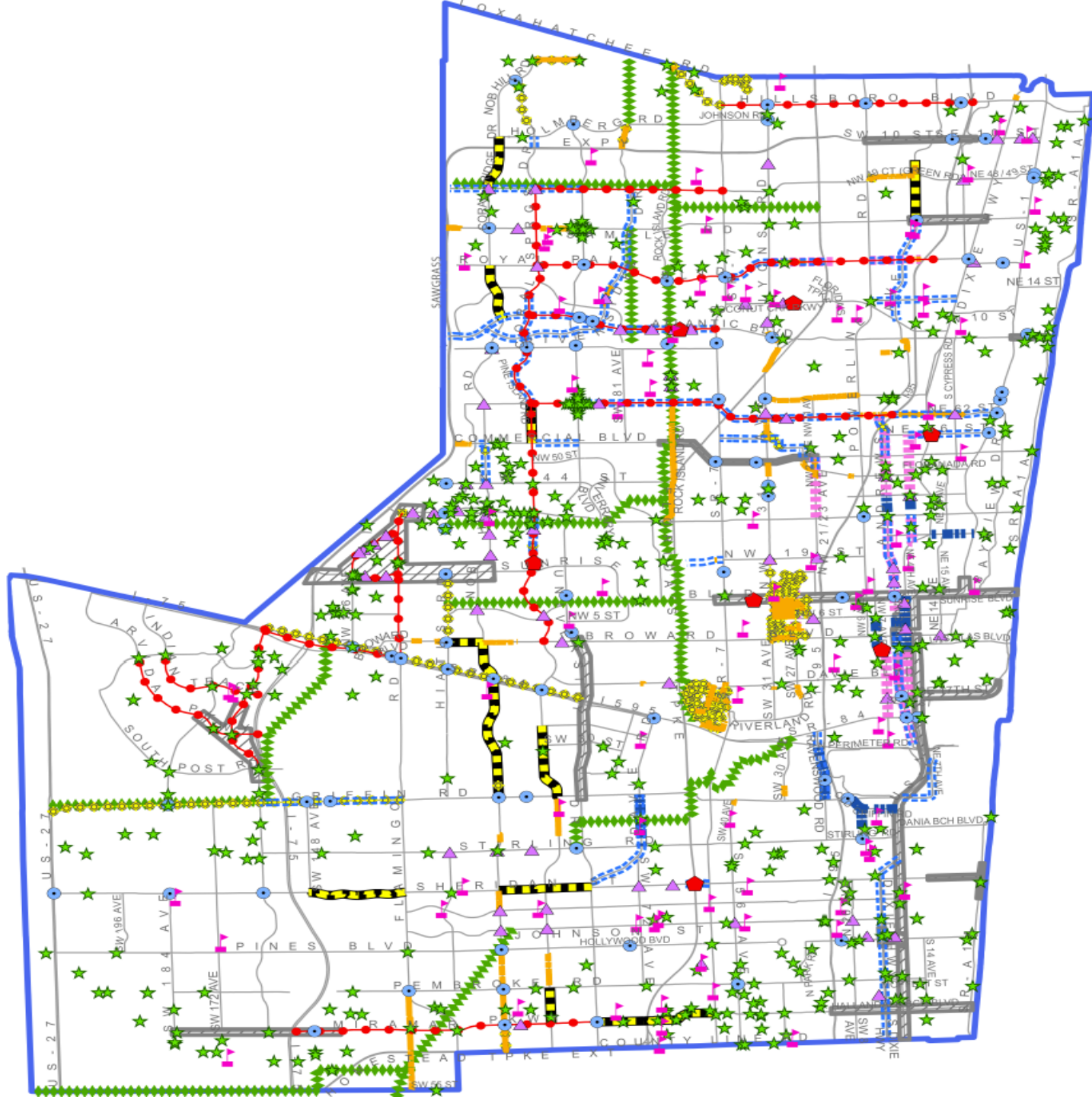


Future Growth Areas

- Highlighted by:
 - Higher density
 - **Mixed use including residential**
 - **Affordable housing**
 - Support multi-modal trips
- Includes Activity Centers:
 - Deerfield Beach Station & Pioneer Grove
 - Coconut Creek Main Street
 - Coral Springs Downtown
 - Pompano Beach Downtown, East, North, John Knox Village & South
 - Fort Lauderdale
 - Hollywood
 - Sunrise
 - Plantation
 - Lauderhill
 - Pembroke Pines



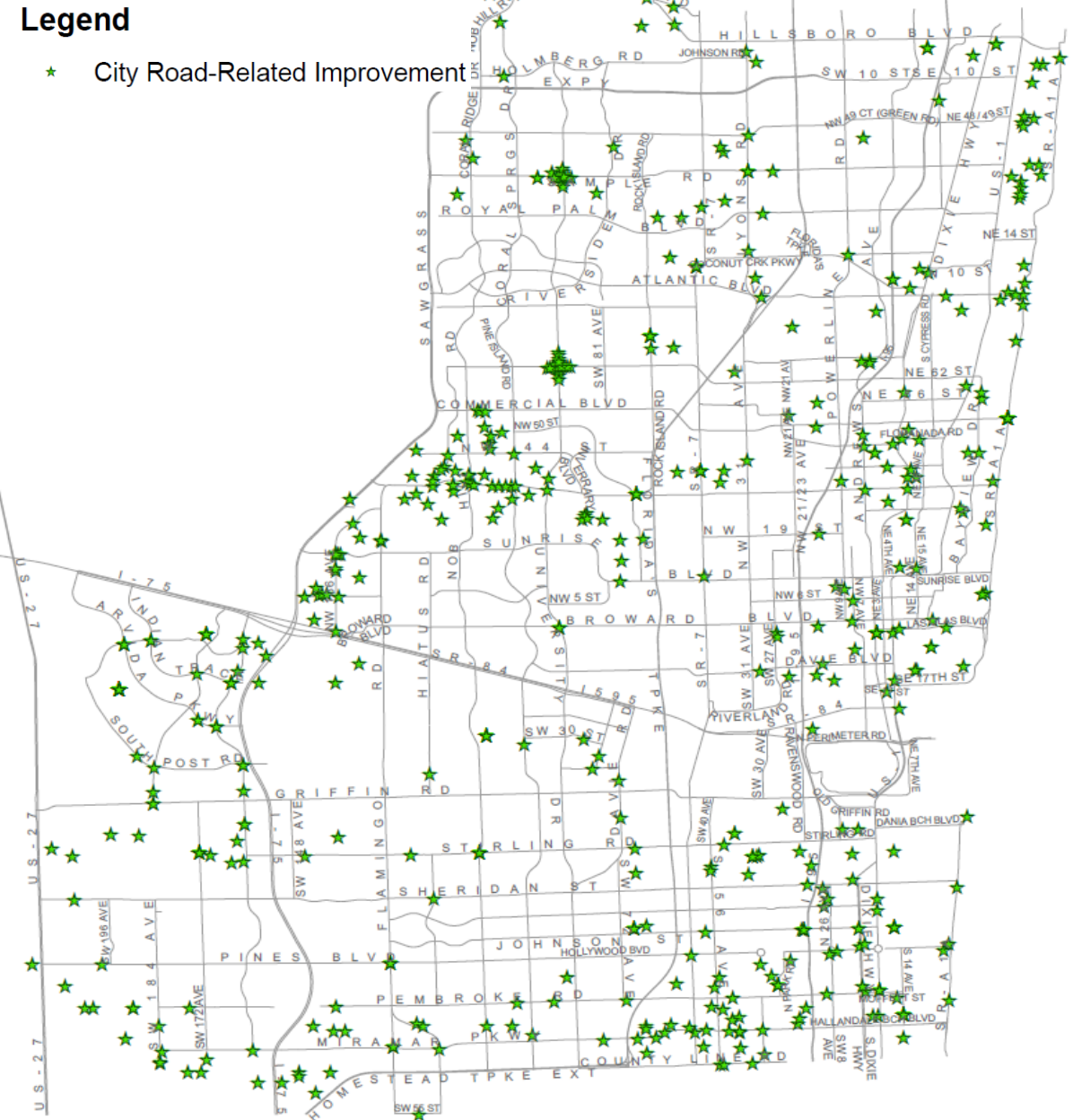
Road/Traffic/City Projects



City Transportation Projects

CITY TRANSPORTATION-RELATED PROJECTS – 586 TOTAL PROJECTS

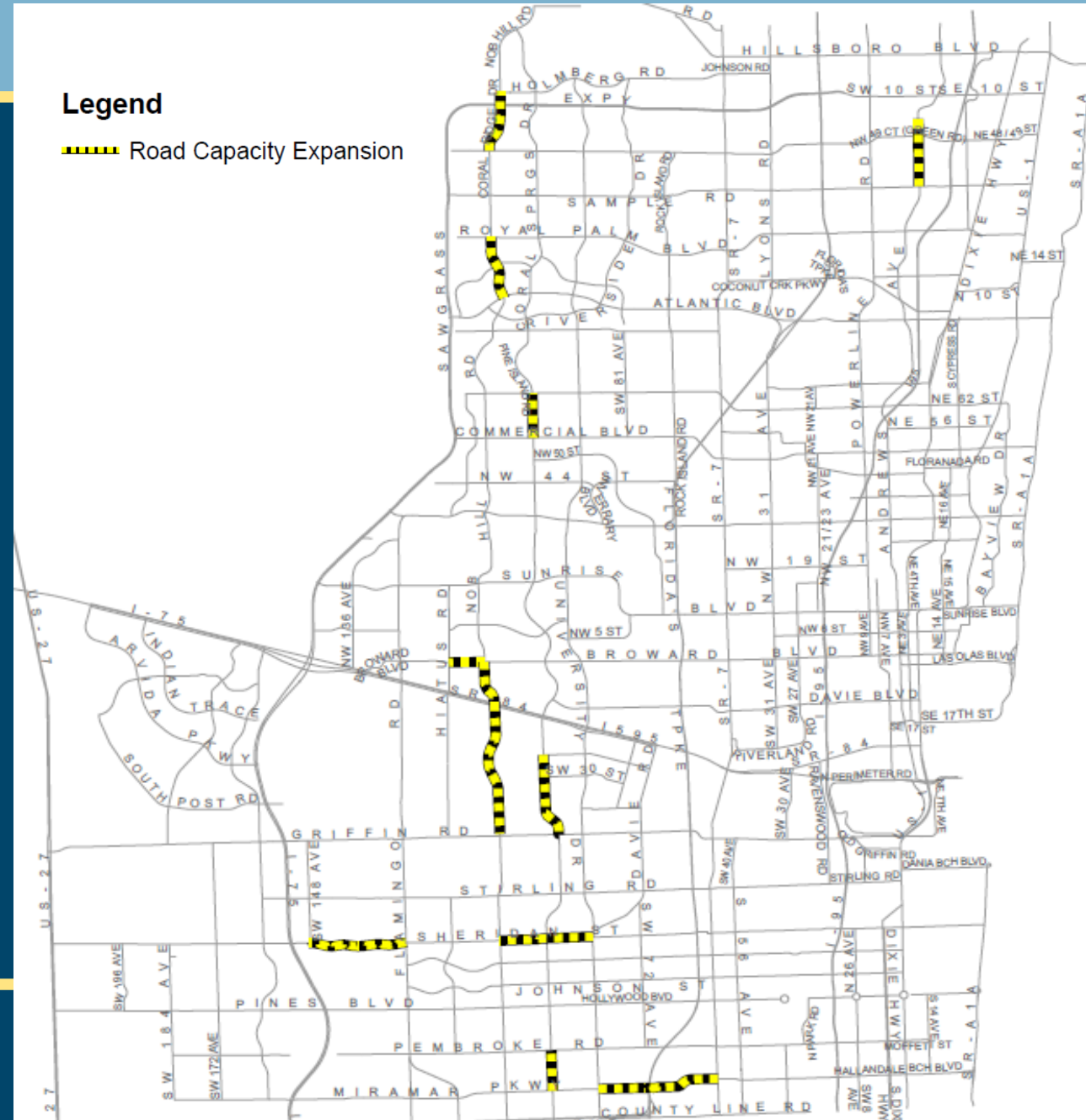
- Compiled from 2016 Surtax Project GIS data
- Includes a variety of Transportation and Complete Street projects and improvements



Road Capacity Expansion

ROAD CAPACITY EXPANSION – 41 LANE MILES

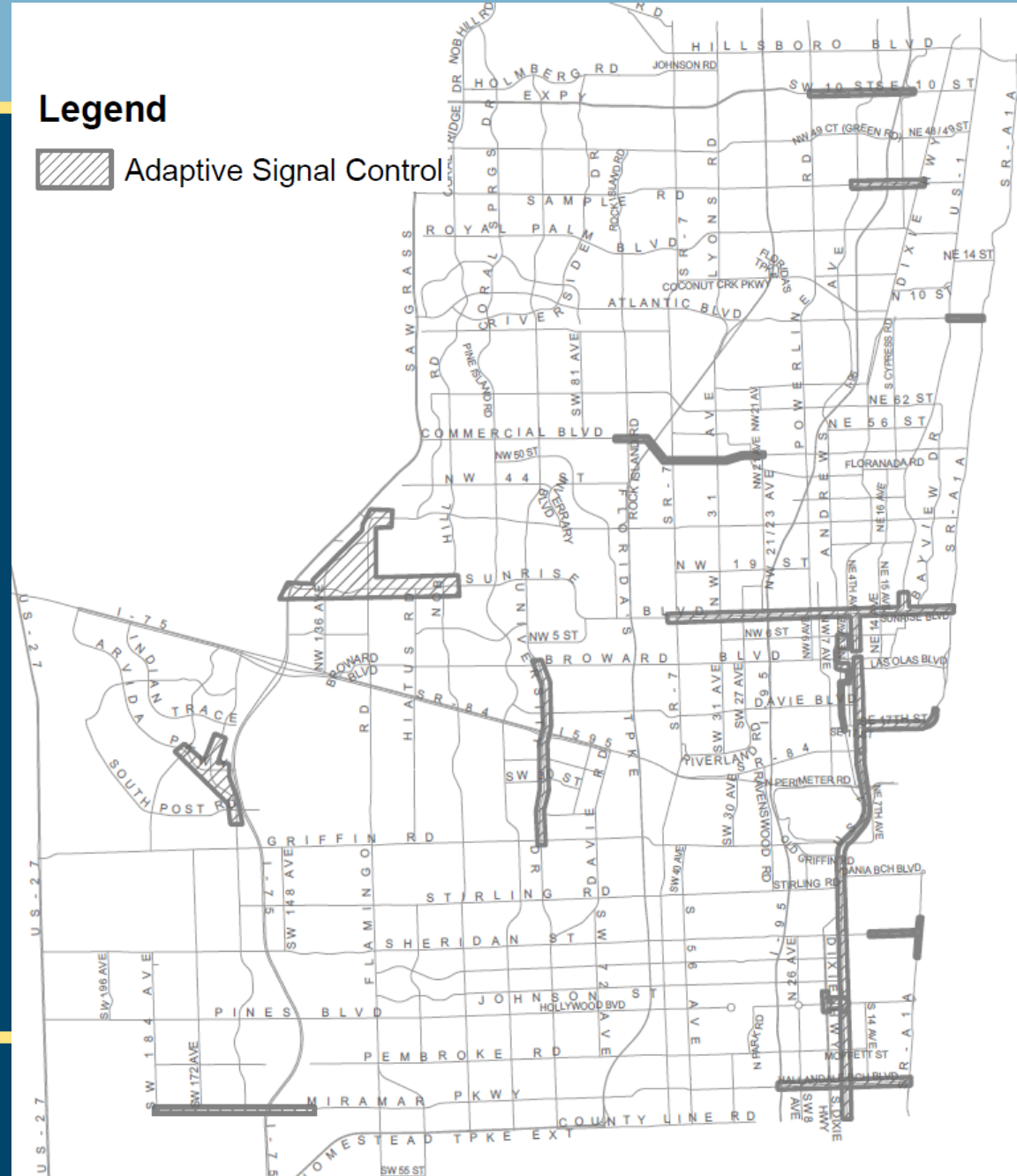
- Level of service at or approaching “F” (failing)
- Improve capacity
- Upgrade roadway elements



Adaptive Signal Control

ADAPTIVE SIGNAL CONTROL – 15 AREAS

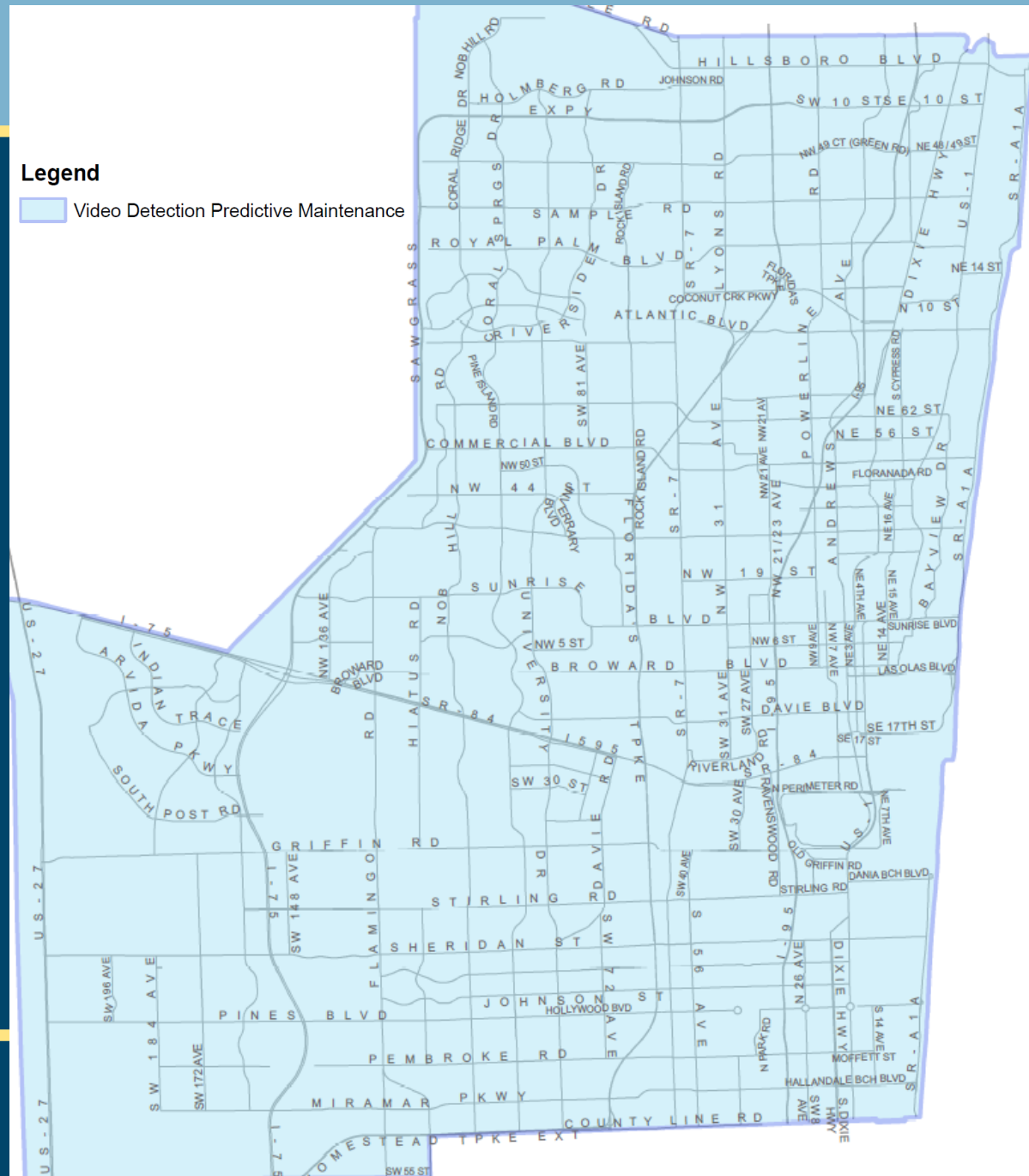
- Effective for Areas With Unpredictable Traffic Patterns
- Reduce Duration of Peak-Hour Congestion
- Could Increase Delay to Side Street Vehicles and Pedestrians



Video Detection

VIDEO DETECTION PREDICTIVE MAINTENANCE – COUNTYWIDE

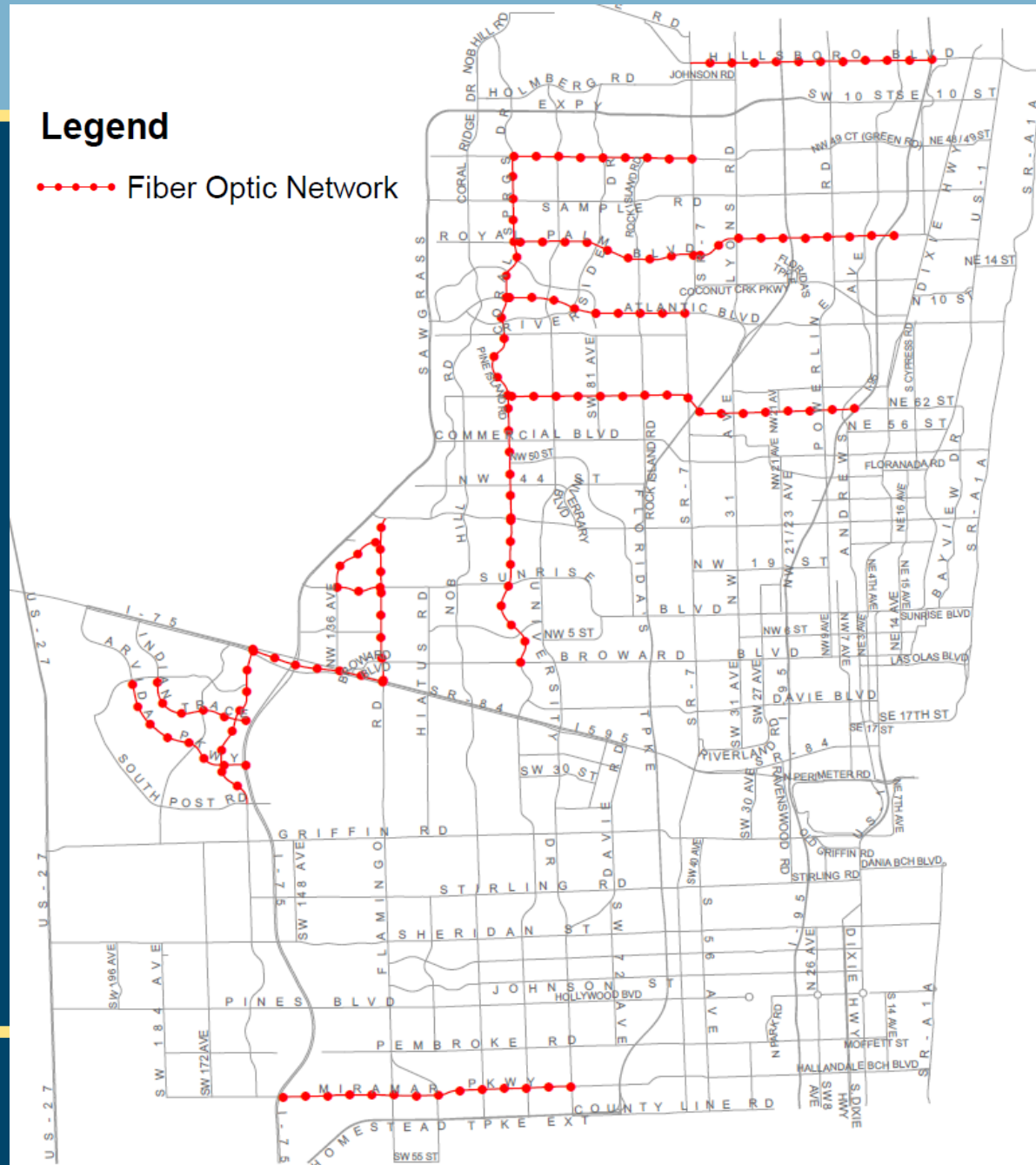
- Actively monitor video detection devices
- Predict/correct maintenance required prior to performance degradation
- Additional equipment and field personnel needed



Fiber Optic Network

FIBER OPTIC NETWORK – 75 MILES

- Support new transit technologies:
 - Transit Signal Priority
 - Queue Jumping
- Improve traffic network reliability and resiliency
- Shared use with FDOT



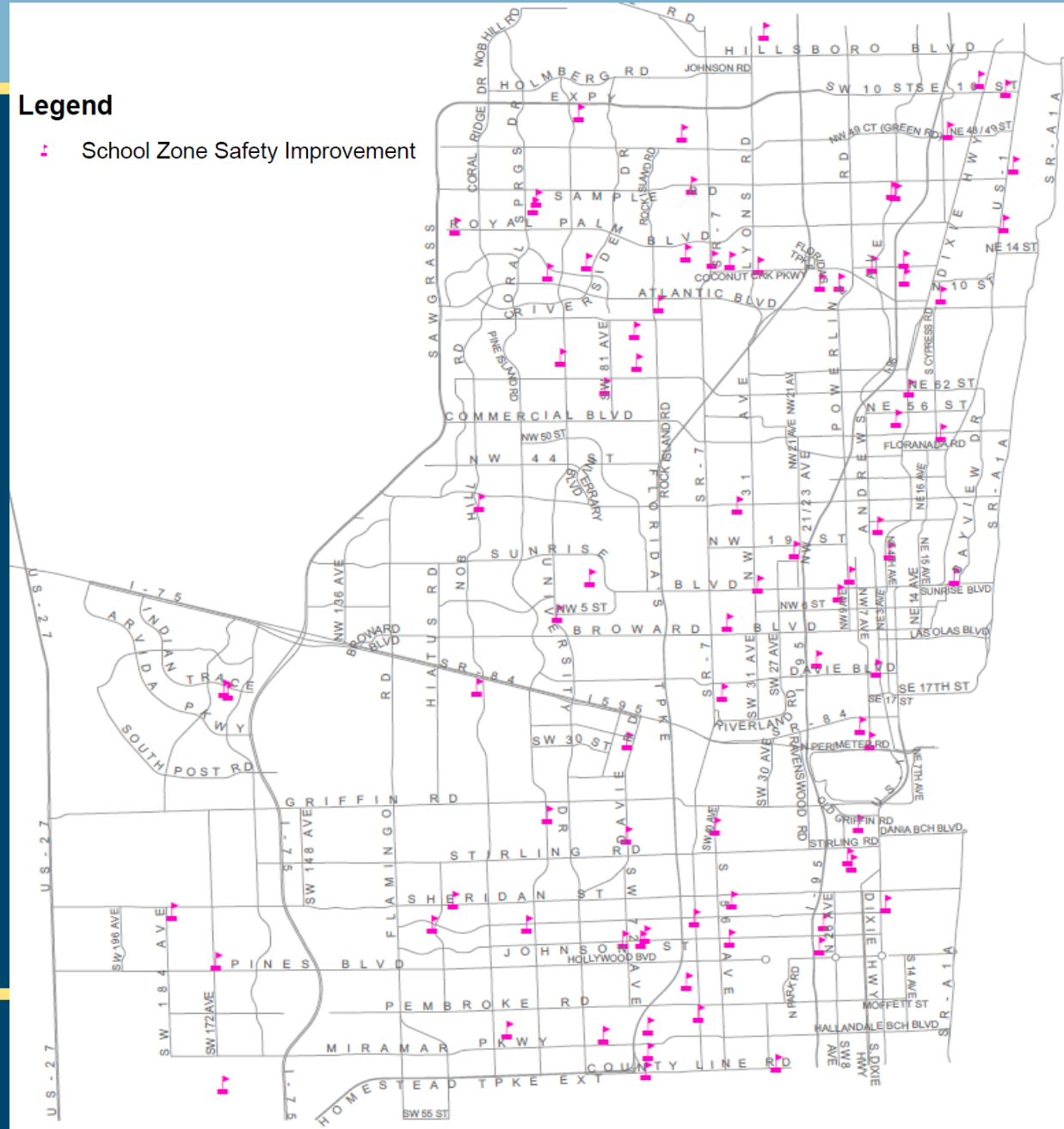
School Zone Safety

SCHOOL ZONE SAFETY IMPROVEMENT – 80 SCHOOLS

- Work in conjunction with School Board and municipalities
- Evaluate based on current conditions/standards
- Install flashers, signage, and pavement marking as needed
- List is continually updated

Legend

- School Zone Safety Improvement



New Sidewalks & Street Lights

- **SIDEWALK – 40 MILES**

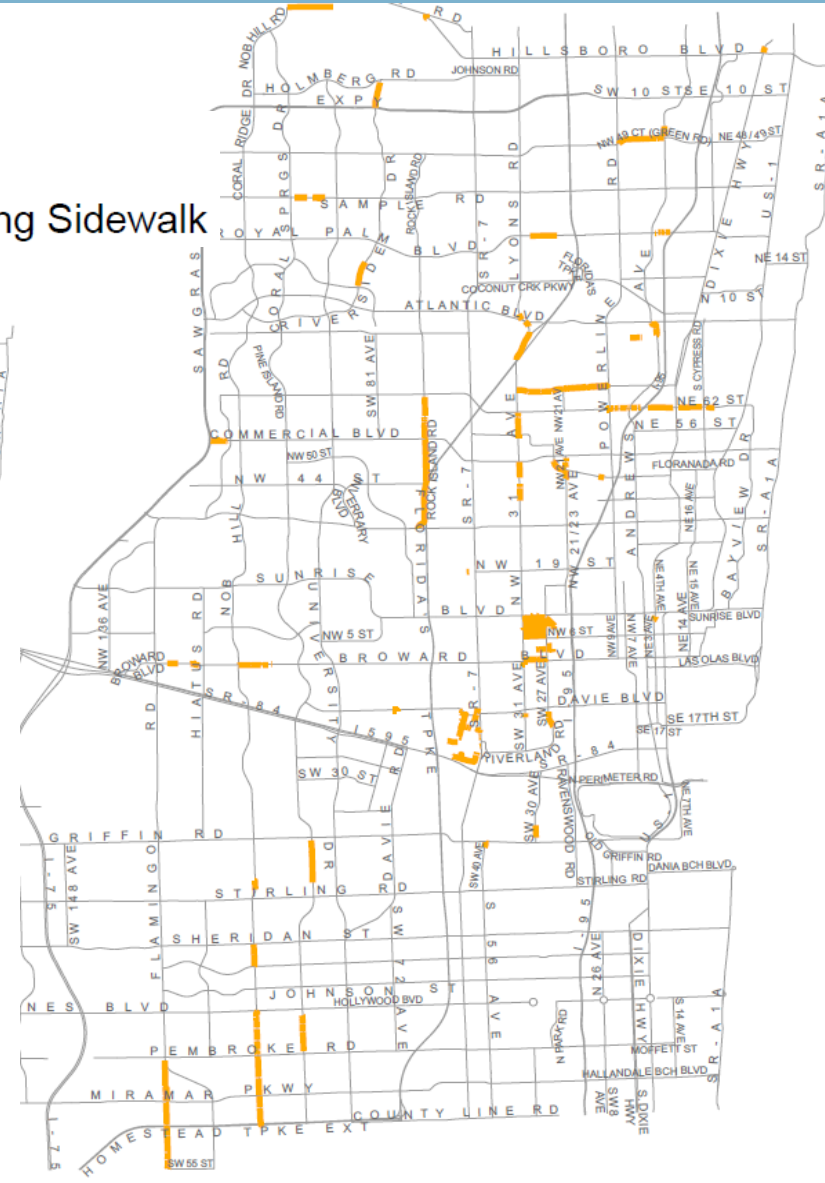
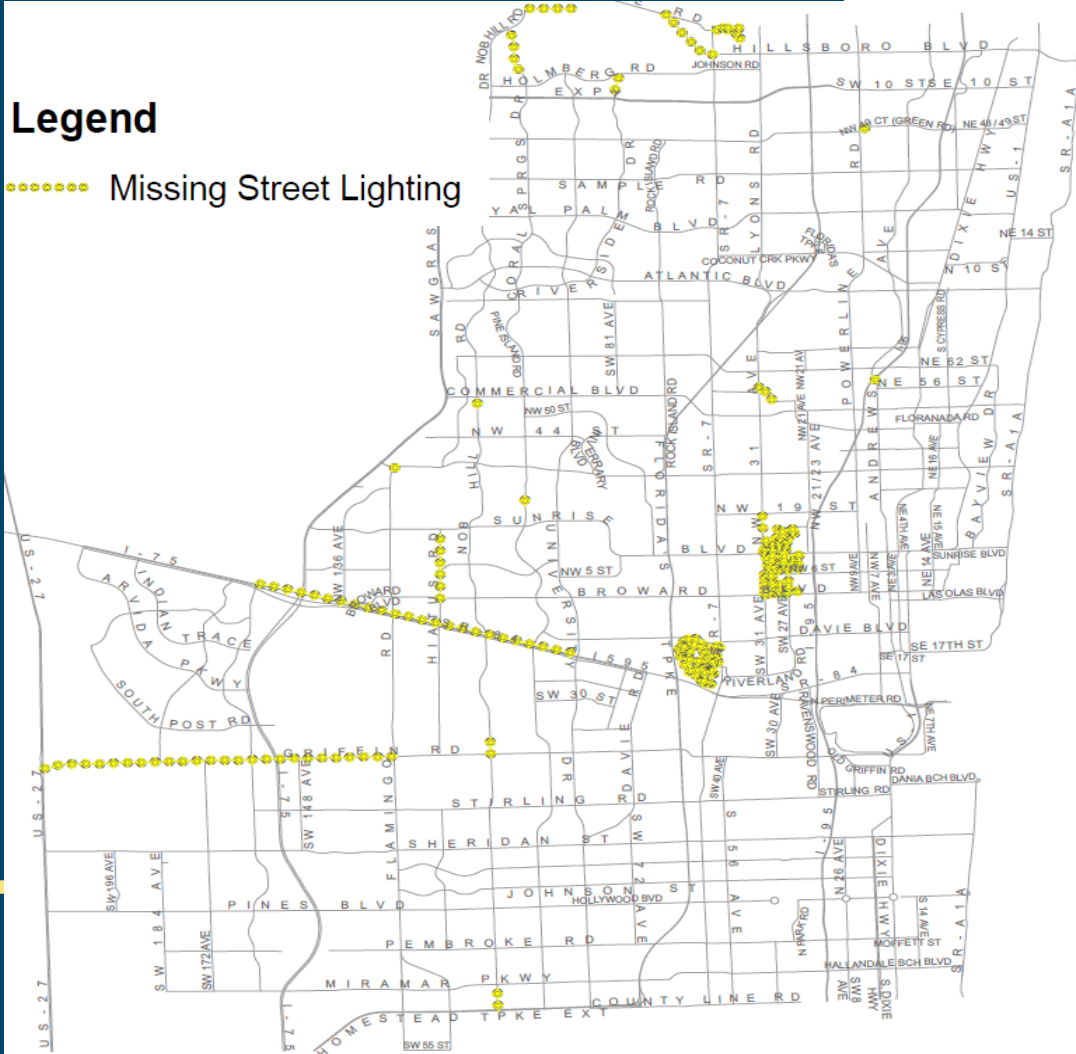
- On County-owned roads and along proposed transit routes
- Improve connectivity and ADA accessibility
- **STREET LIGHTING – 70 MILES**
- Identified sections of county roads that do not have street lights
- Typically installed by cities or FPL

Legend

— Missing Sidewalk

Legend

●●●●● Missing Street Lighting



Bike Lanes & Mast Arms

BIKE LANES— 72 MILES

- Improve access to greenways
- No reduction of vehicle lanes

MAST ARM UPGRADE — 80 INTERSECTIONS

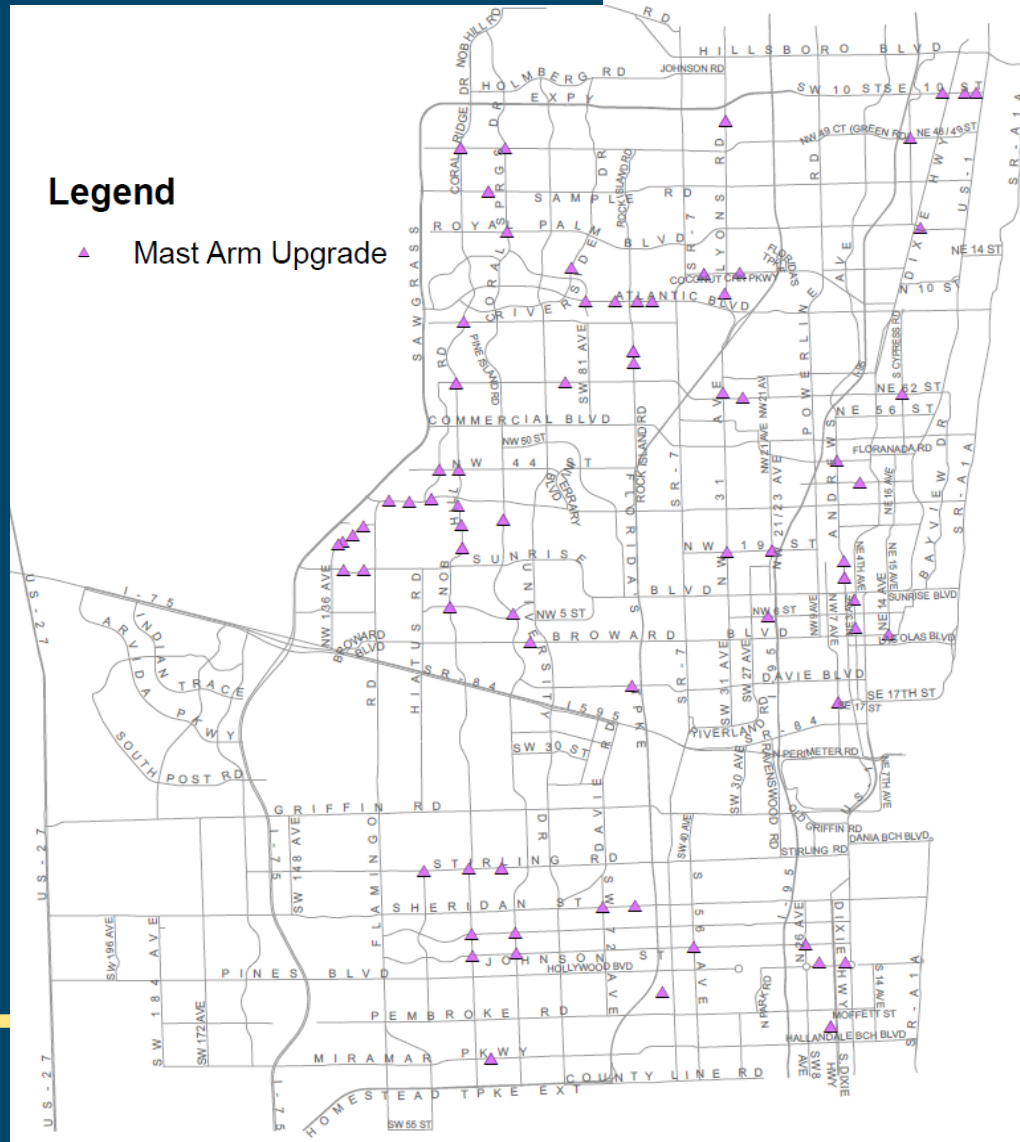
- More wind resistant
- Less repairs after storms

Legend

----- Bike Lanes / Complete Street

Legend

▲ Mast Arm Upgrade



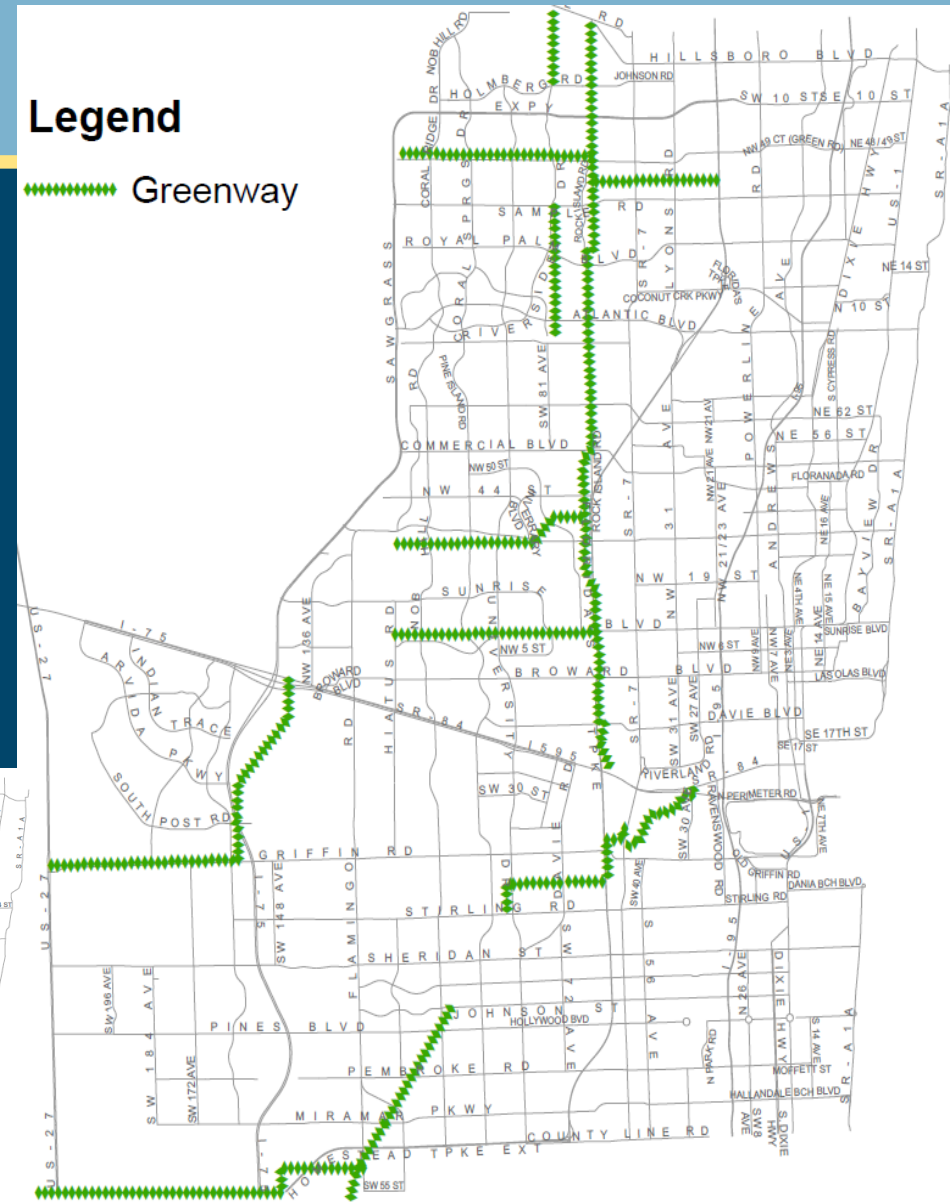
Greenways & Resiliency

GREENWAY – 70 MILES

- Follows Broward County Greenways Master Plan
- Spurs additional city greenways

CLIMATE RESILIENCY IMPROVEMENT – 10 MILES

- Improve Resiliency of Roadway to Sea-Level Rise:
 - Raise road elevations
 - Parallel drainage systems
 - Stormwater pumping systems
 - Green retention areas
 - Drainage wells



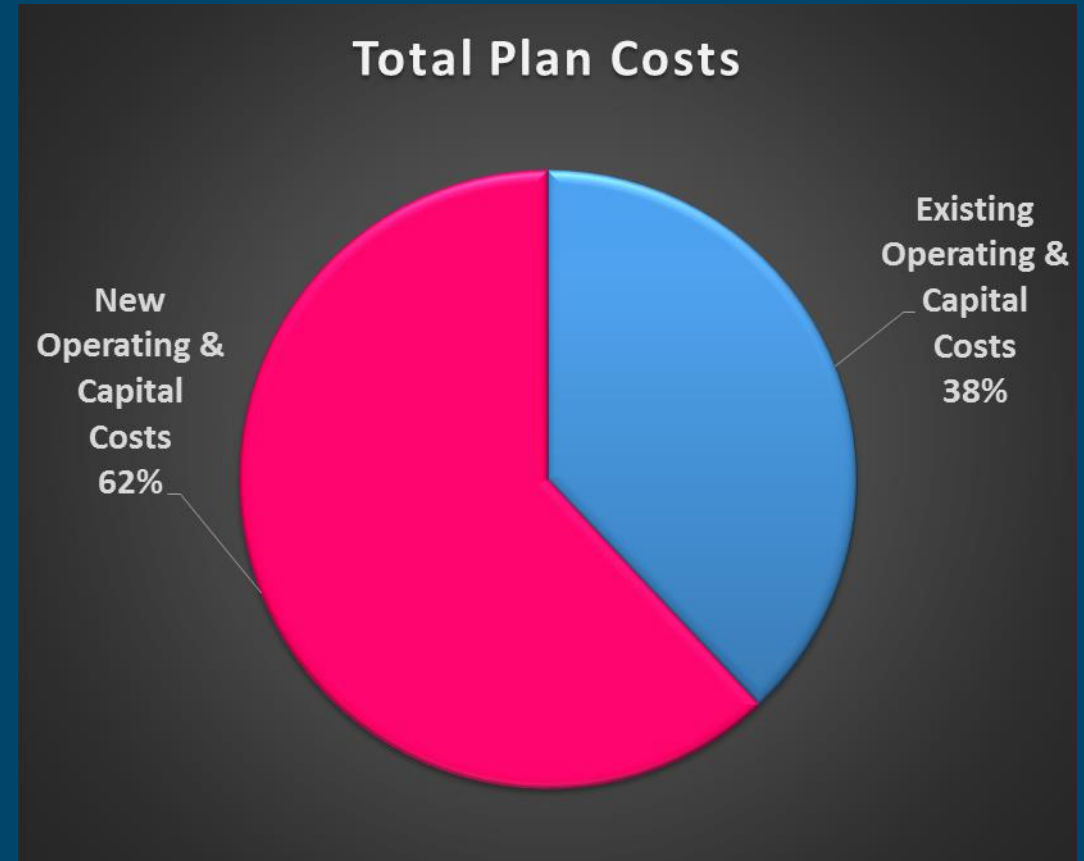
Maintain Transit System

- **Existing Service Levels:**

- Fixed-route bus:
 - 1,157,552 annual revenue hours
 - 15,314,000 annual revenue miles
- Community bus:
 - 171,191 annual revenue hours
 - 2,174,989 annual revenue miles

- **Existing Capital Equipment & Facilities:**

- 359 fixed-route buses
- 70 community buses
- 1,200 bus shelters system-wide
- 4,600 bus stops system-wide
- 4 transit terminals
- 2 bus operations & maintenance facilities
- WAVE streetcar system (after 2021) and facilities



New Local Service Enhancements

- **Restoration of Discontinued Route Service**

- Route 15 (Griffin Rd. to County Line Rd.)
- Route 16 (Pembroke Lakes Mall to Dania Beach City Hall via Stirling Rd.)
- Route 23 (Pembroke Lakes Mall to Sawgrass Mall)
- Route 48 (US 441 to A1A via Hillsboro Blvd.)
- Route 56 (Welleby Plaza-Jacaranda Plaza via Sunrise Lakes Blvd.)
- Route 88 (West Regional Terminal to Holmberg Rd.-Coral Ridge Dr.)

- **Route Extensions and Realignment**

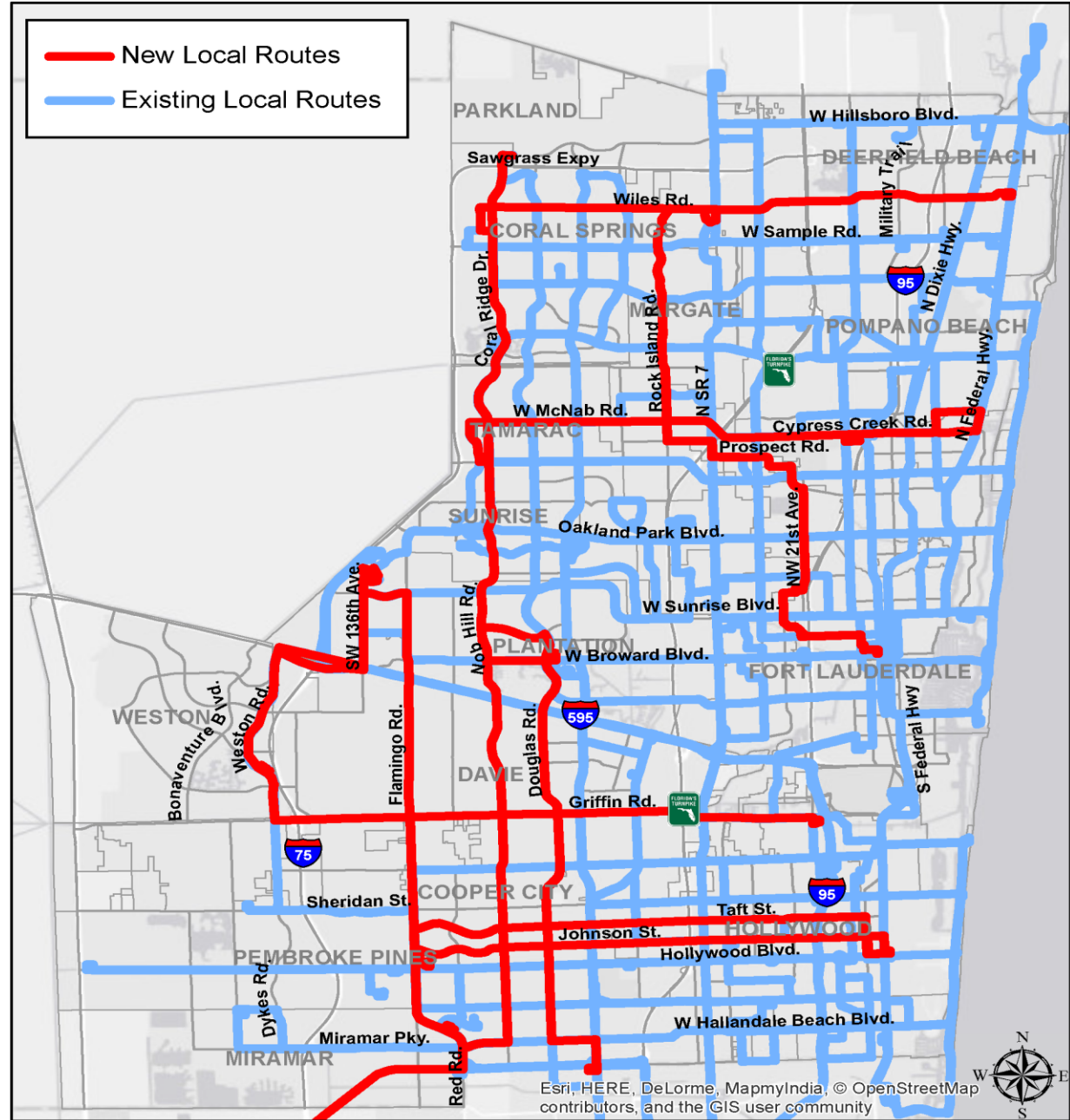
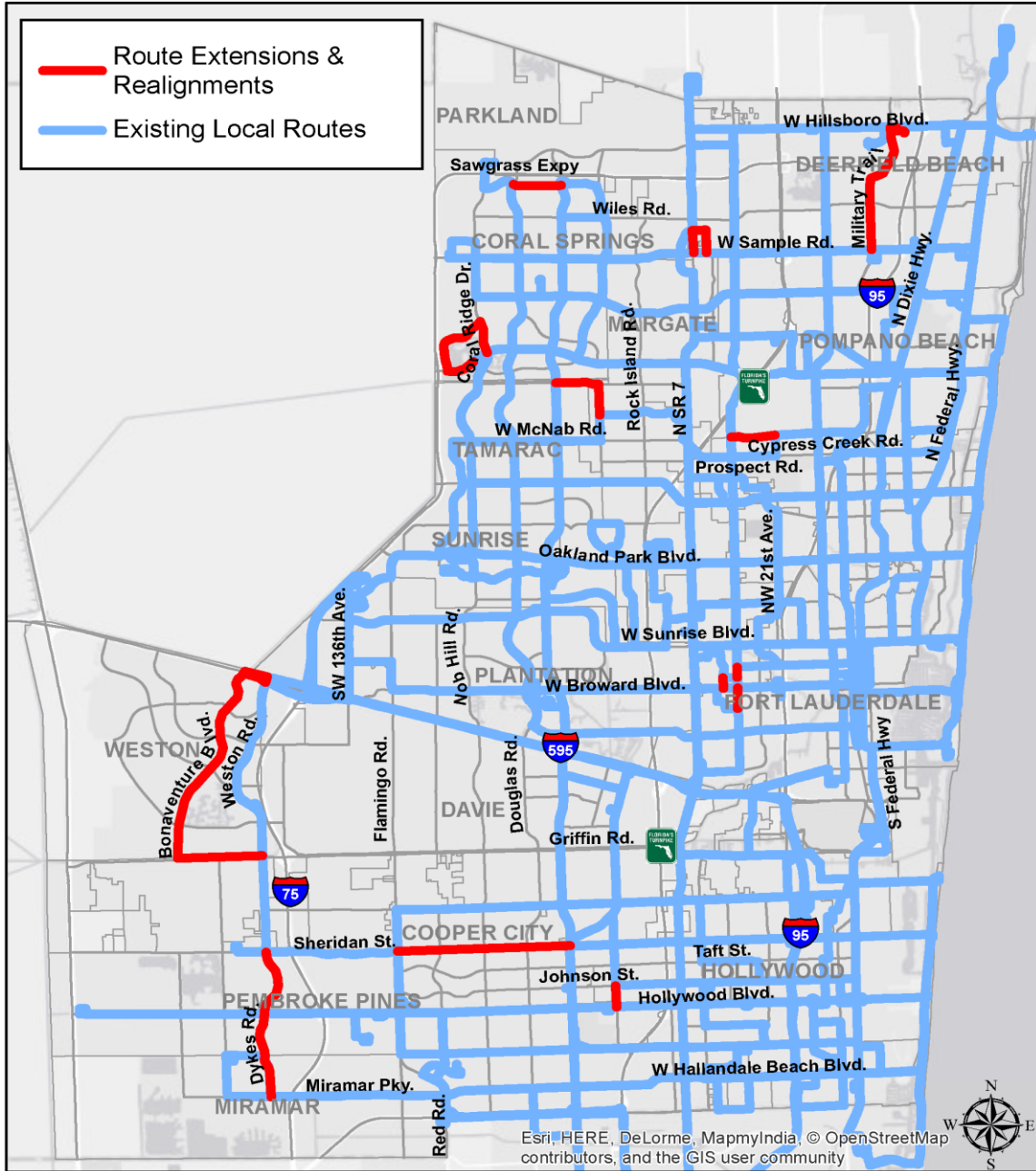
- **Increased Service Span Hours**

- **Improved Frequencies**

- All routes will have a maximum of 30-minute peak weekday service

- **New Routes on 10 Corridors**

- Taft Street (2019)
- Rock Island Rd. (2020)
- Nob Hill Road (2021)
- McNab Road (2022)
- Flamingo Rd. (2023)
- Douglas Rd. (2024)
- Johnson Street (2025)
- Griffin Rd. (2026)
- Wiles Rd. (2027)
- Palm Avenue (2028)



New Rapid Bus Service

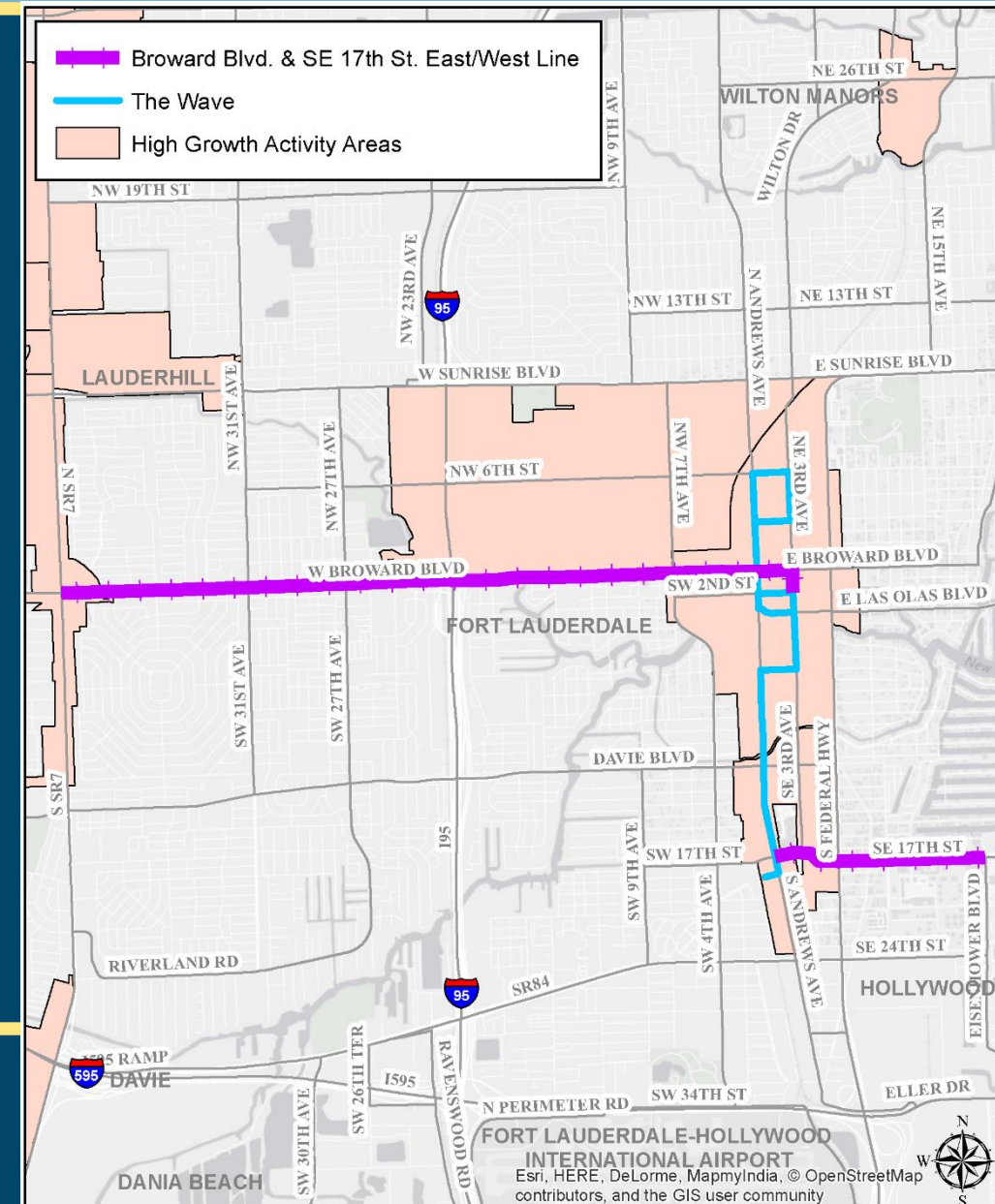
- Implement 7 Rapid Bus Routes (150 Miles):

- Limited-stop bus service
- 10/15-minute service all day
- Will operate in mixed traffic or semi-exclusive lanes
- Level boarding stations
- Transit signal priority (TSP) and queue jumpers
- **Will operate on state roads**

- 441/SR 7 (2021)
- Oakland Park Blvd. (2024)
- US 1 (2027)
- Hollywood/Pines Blvd. (2030)
- University Drive (2033)
- Sample Road (2036)
- Dixie Highway (2039)

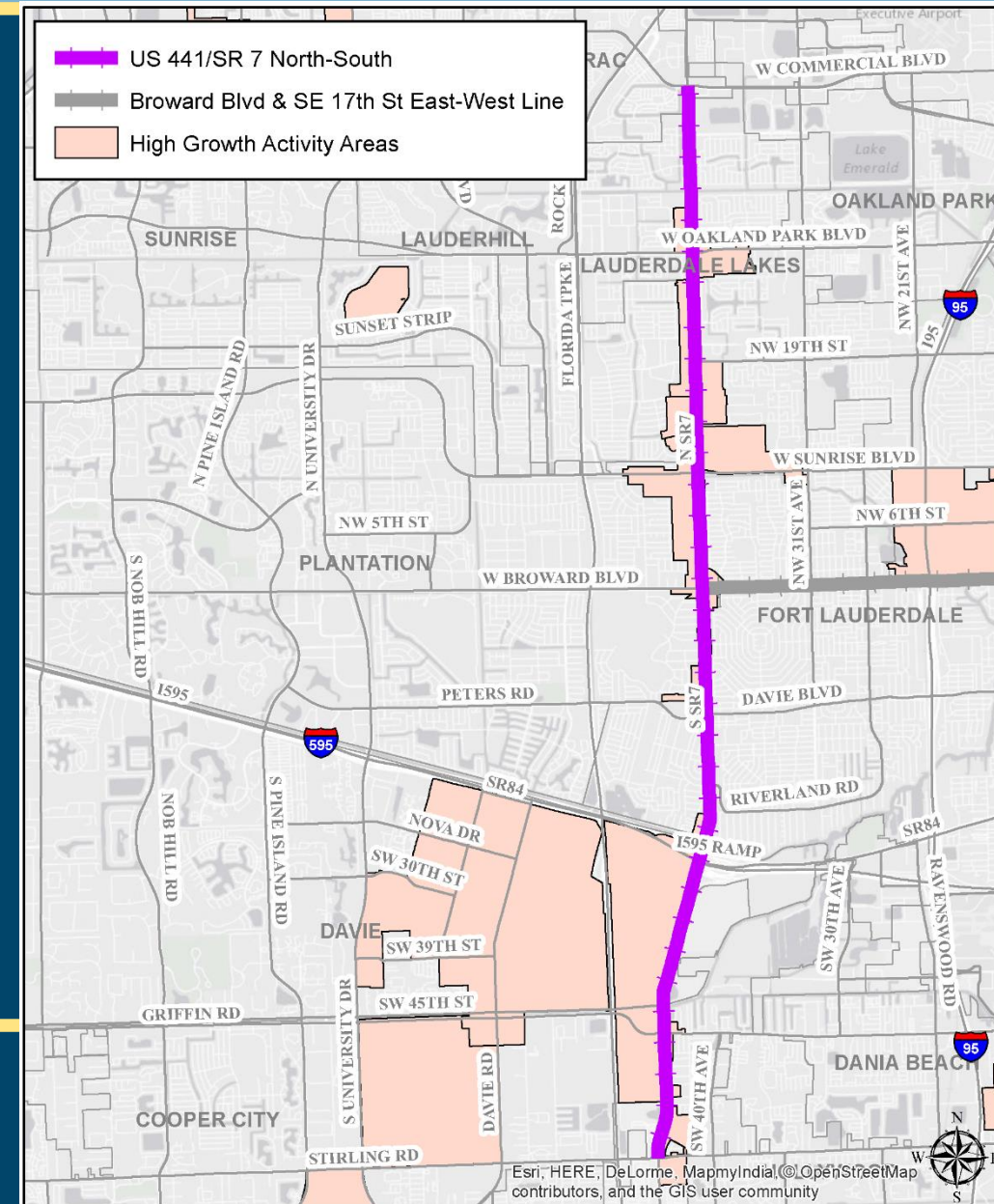
Broward Blvd. & SE 17th St. East-West Lines

- 5 Miles of LRT on 2 Segments:
 - SE 17th St. from WAVE to Broward County Convention Center (1.1 Miles)
 - Broward Blvd. – from Broward Central Terminal to US 441/SR 7 (3.9 Miles)
- Connections to Regional Destinations:
 - Downtown Fort Lauderdale
 - Greater Fort Lauderdale/Broward County Convention Center
 - Broward Central Terminal (BCT, Brightline)
 - Tri-Rail/Amtrak Station
 - I-95 Express Park and Ride Lot



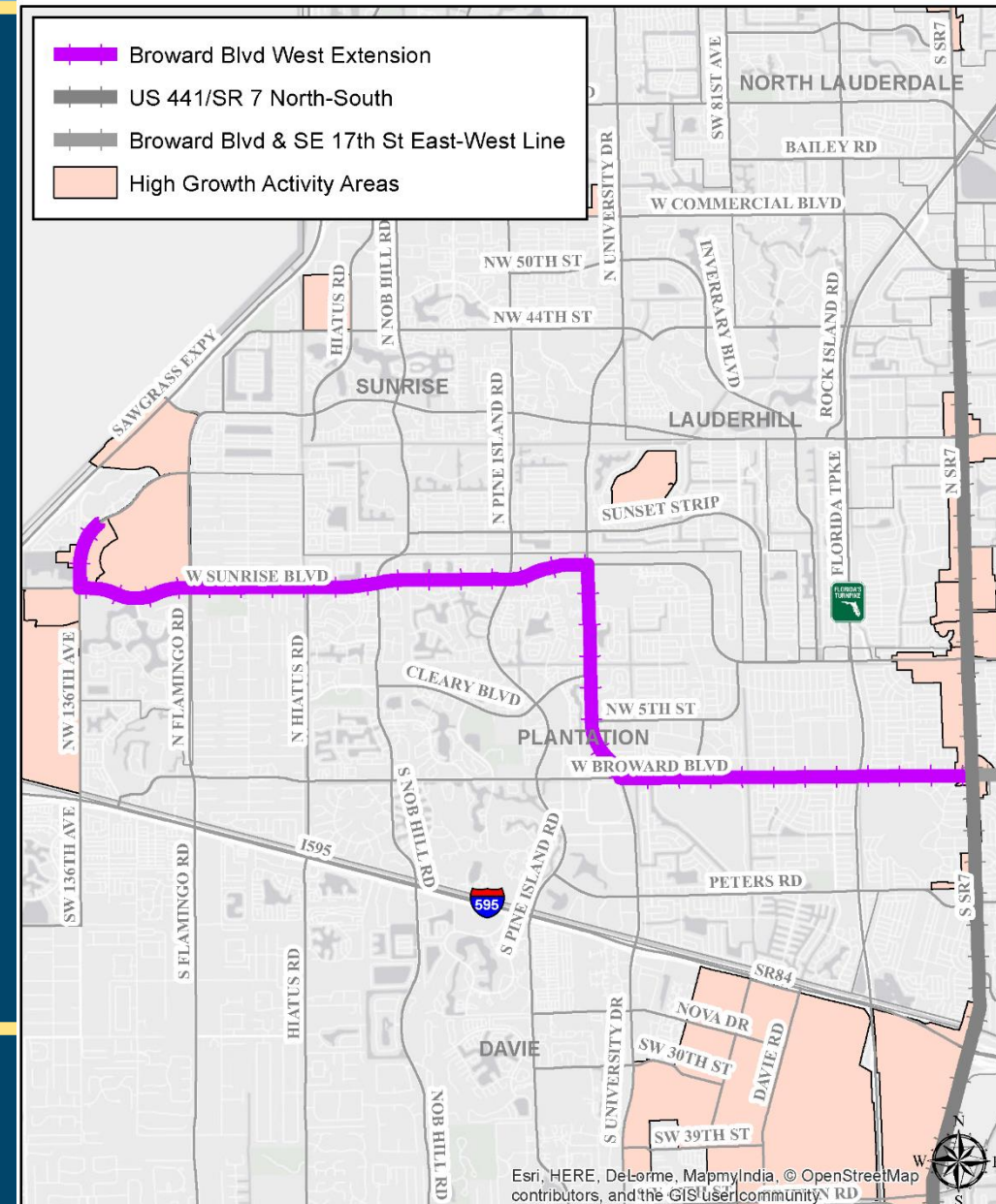
US 441/SR 7 North-South Line

- 9.7 Miles of LRT on US 441/SR 7:
 - North from Broward Blvd. to Commercial Blvd.
 - South from Broward Blvd. to Stirling Rd.
- Connects to Regional Destinations:
 - Lauderhill Transit Center
 - Oakland Park Blvd. Corridor
 - Sunrise Blvd. Corridor
 - Plantation General Hospital
 - Seminole Hard Rock Hotel and Casino



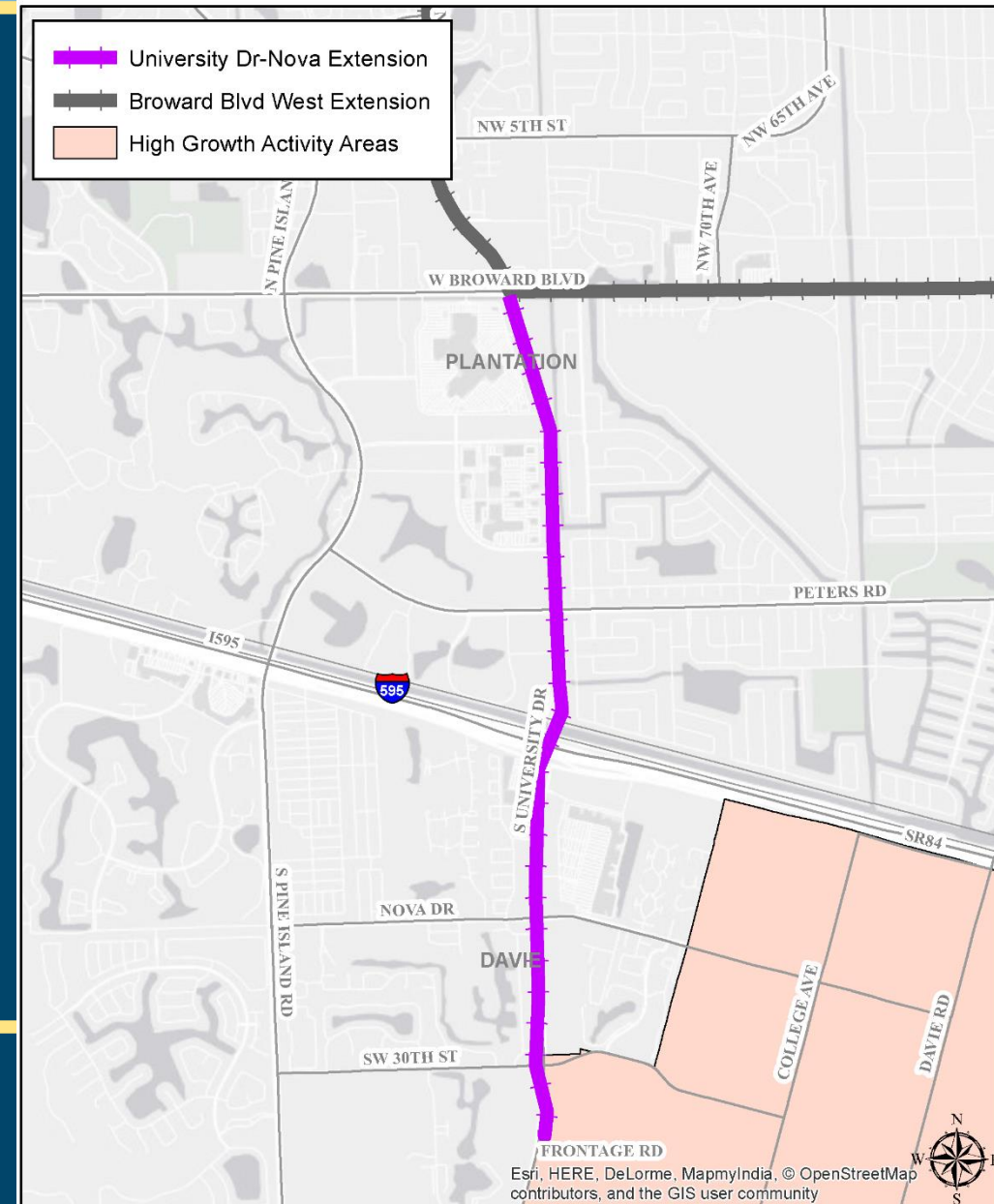
Broward Blvd. West Extension LRT

- 9.7 Miles of LRT from US 441/SR 7 to Sawgrass Mills Mall:
 - West along Broward Blvd., North on University Dr., West on Sunrise Blvd.
- Connects to Regional Destinations:
 - Westside Regional Medical Center
 - West Regional Courthouse
 - Magic Leap/Corporate Park
 - Sawgrass Mills Mall
 - BB&T Center
 - Sunrise Express Bus Park & Ride Lot

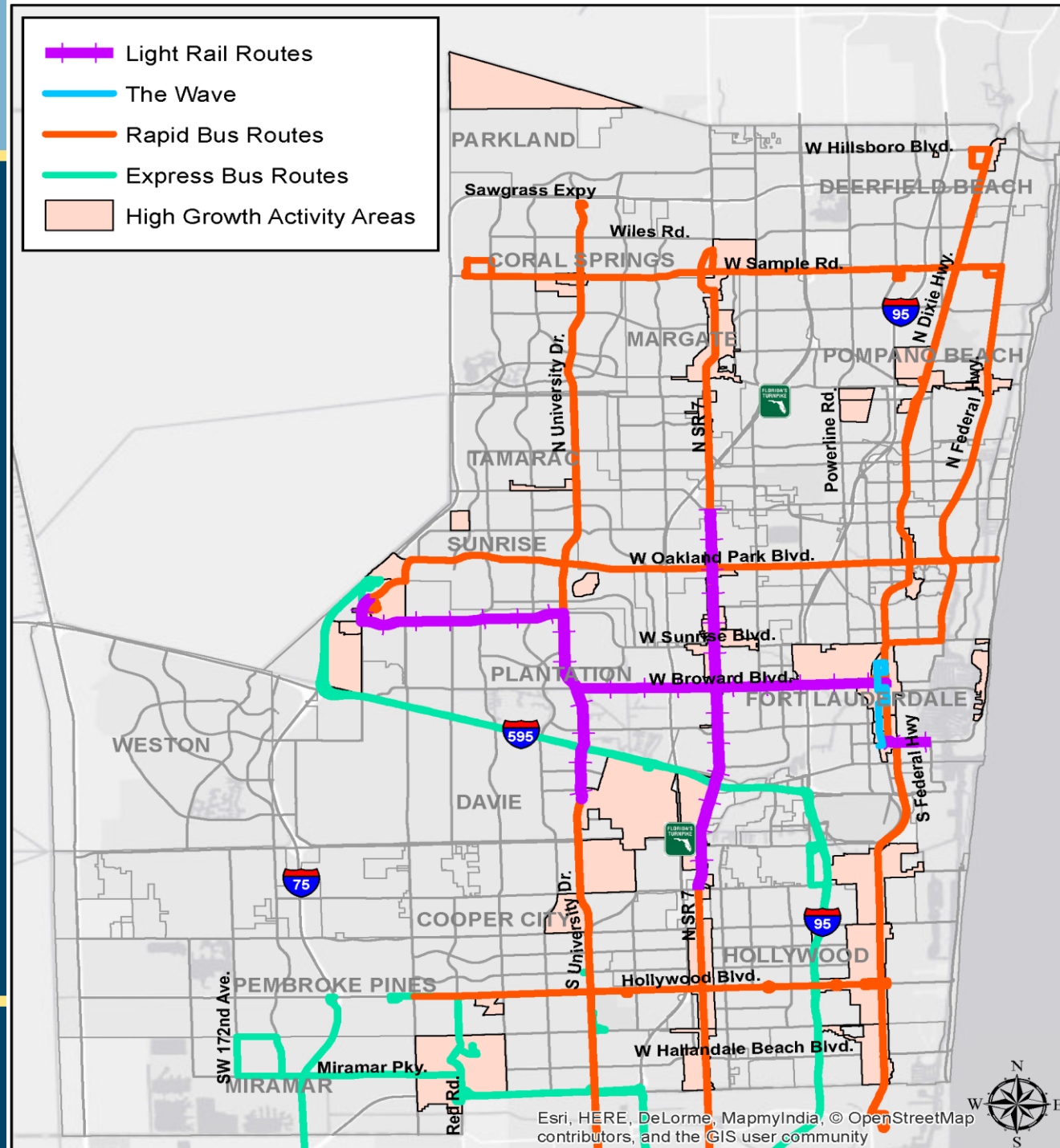


University Dr.-Nova Extension LRT

- 2.8 Miles of LRT on University Dr.:
 - South on University Dr. from Broward Blvd. to Nova Southeastern University.
- Connects to Regional Destinations:
 - Westfield Mall
 - Tower Shops (Shopping Center)
 - Nova Southeastern University
 - South Florida Education Center (SFEC)



Broward County LRT/Rapid Bus/Express Bus Network

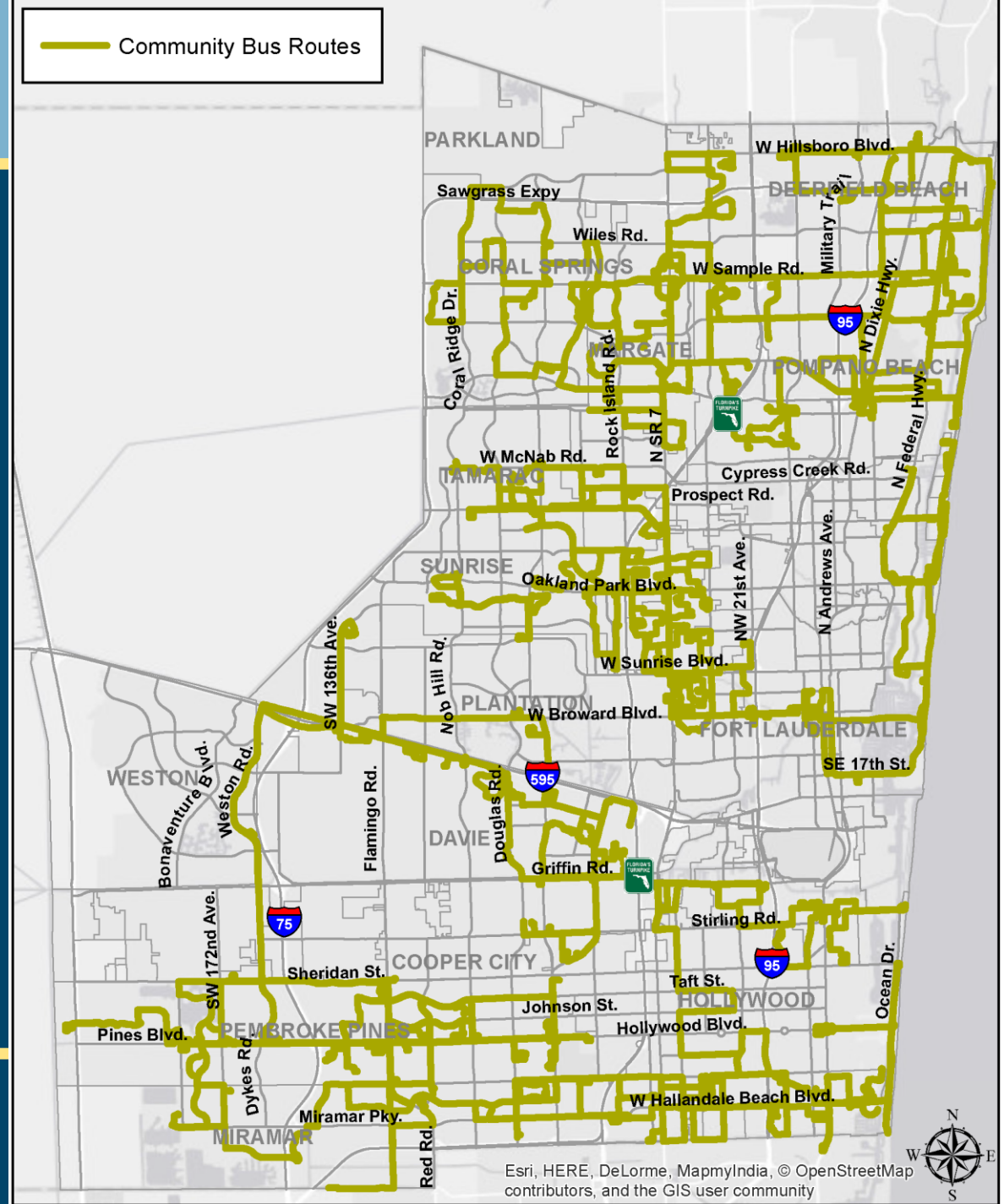


Community Bus Program

- Surtax directly funds existing & modified Community Bus Program (CB):
 - Increases BCT community bus annual operating funding from \$2.6M to \$7.5M; Oversight/Governance Body for Surtax distributes directly
 - Existing parameters for Community Bus continue
 - Assures neighborhood connectivity; first-mile, last-mile and one-transfer along proposed light rail routes
- Fund Community Bus Capital Costs:
 - Purchase and replacement of community bus vehicles

Broward County Community Bus Network

Community Bus Routes



Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



Next Steps

Efforts Complimenting a 2018 Transportation Surtax Initiative:

- BCT's 2019-28 Transit Development Plan (TDP) development (2017-18)
 - Broward MPO 2045 Long Range Transportation Plan development (2017-18)
 - Broward MPO Mobility Hubs concept development (2017-18)
-
- Board discussion and direction informs: plan elements, time horizon, and **oversight/governance structure ensuring accountability & transparency**
 - Plan is presented by the partners at MPO November 9th
 - Plan is evaluated by community stakeholders; input and feedback informs next steps, campaign composition, etc.
 - Board consideration of Final Plan; passage of ballot language; ILAs, as needed
 - Community outreach/campaign

Technology

Rapid transit

Alternative modes

Neighborhood connectivity

Safety zones

Partnerships

Outreach

Responsible oversight

Transparency