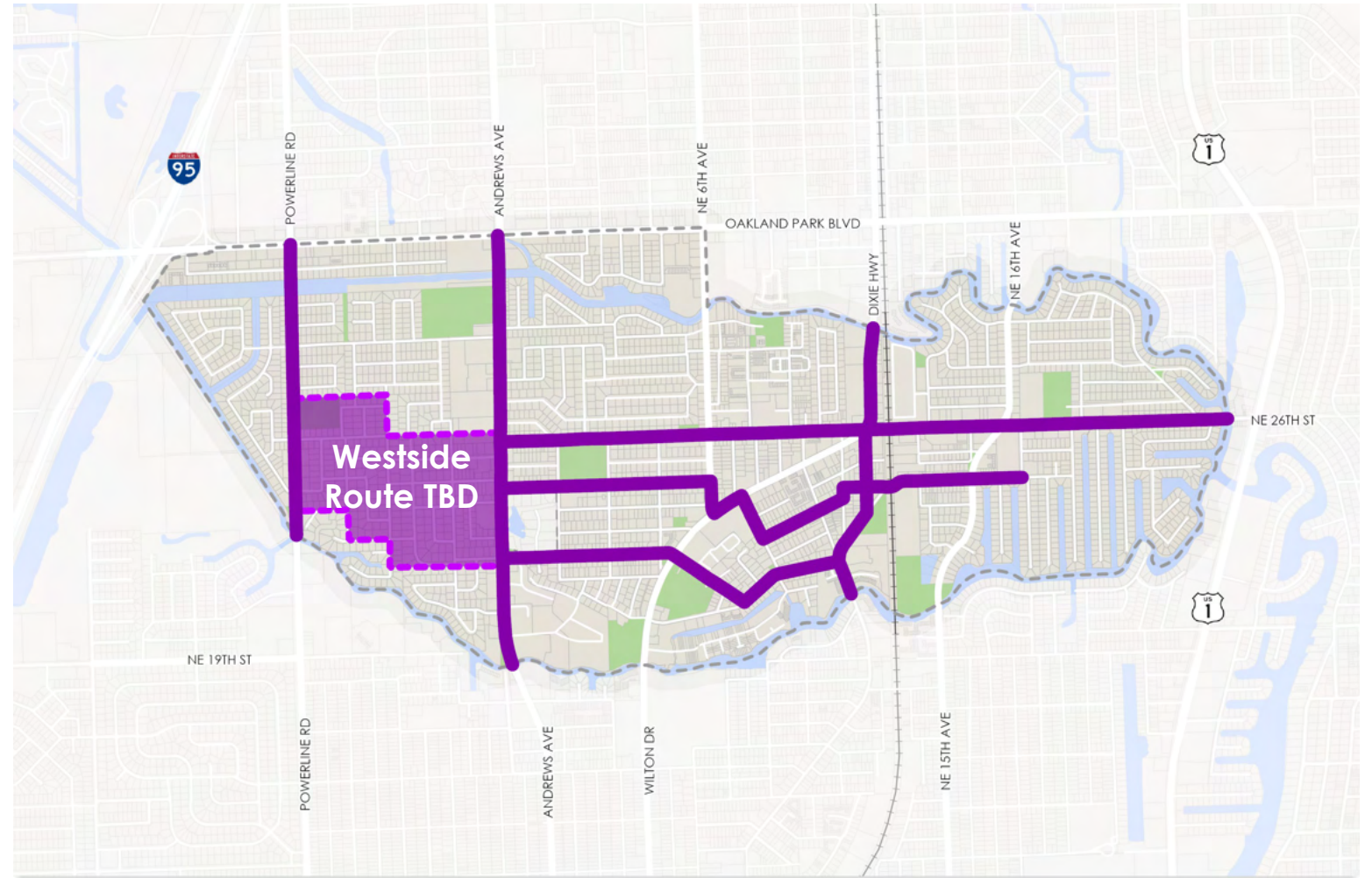# Wilton Manors Transportation Master Plan

FINAL EXISTING CONDITIONS ASSESSMENT

SEPTEMBER 2023

Study Area

We Are Wilton Manors

Compared to Broward County, People in Wilton Manors Are:

- Older (County Average: 41)

- 39% more likely to be male

- Wealthier (County Median: 65,747)

- More educated (36% of County residents have a Bachelors or higher)

- Whiter:
  - Caucasian Population is 2.5x higher
  - Black population is >9x lower
  - Hispanic/Latinx population is 2.5x lower

total population **11,525**

54 median age

68% men **32%** women

3,711 jobs

race & ethnicity **78%** caucasian **13%** latinx
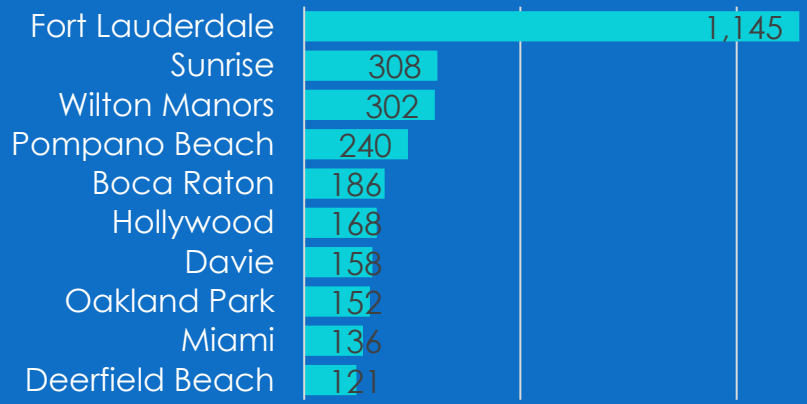
median household income **$81,250**

50% Have a bachelor's degree or higher

Where We Work

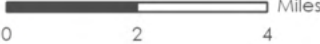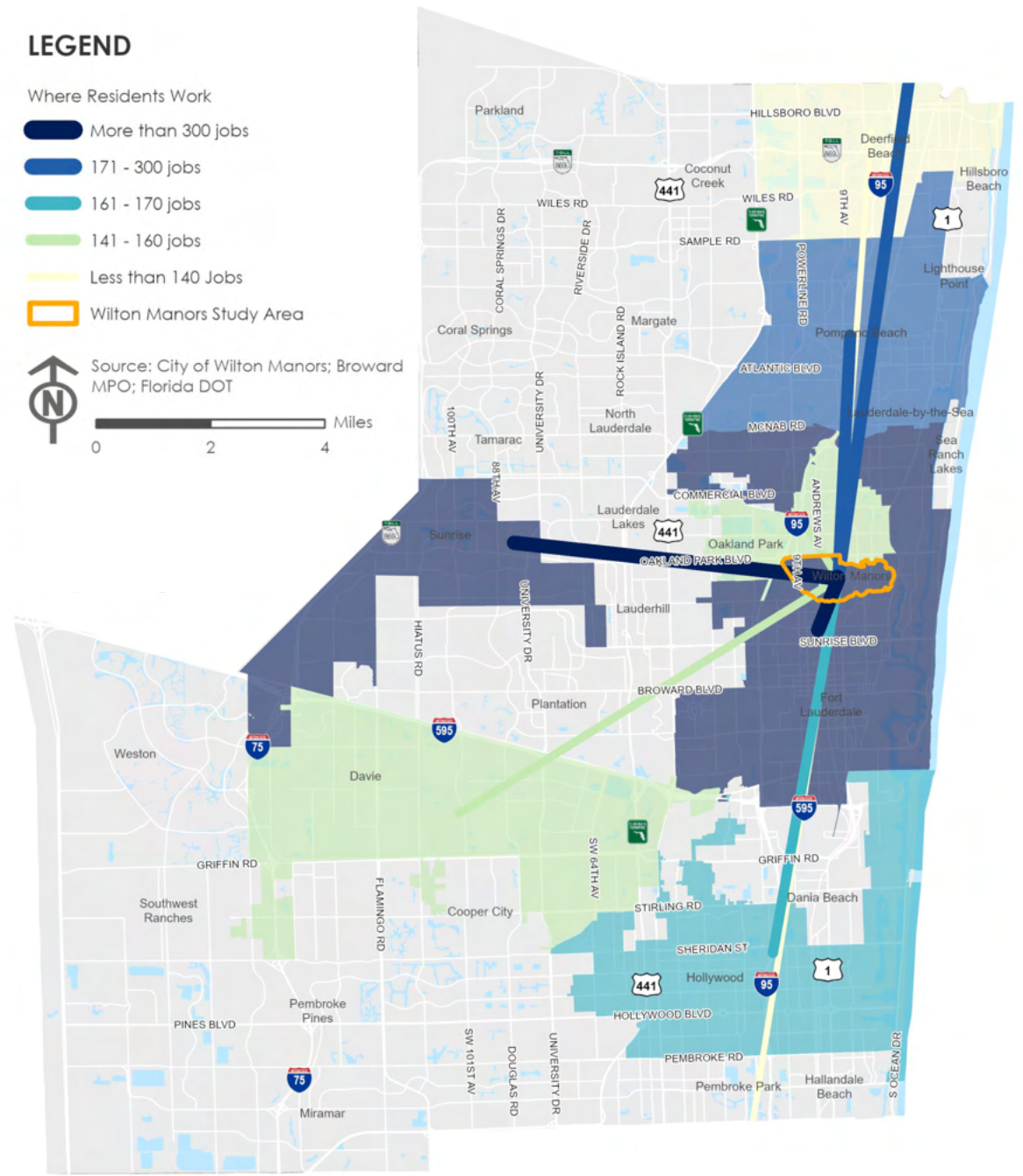|	
Fort Lauderdale	1,145
Sunrise	308
Wilton Manors	302
Pompano Beach	240
Boca Raton	186
Hollywood	168
Davie	158
Oakland Park	152
Miami	136
Deerfield Beach	121

LEGEND

Where Residents Work

More than 300 jobs
171 - 300 jobs
161 - 170 jobs
141 - 160 jobs
Less than 140 Jobs
Wilton Manors Study Area

Source: City of Wilton Manors; Broward MPO; Florida DOT

N

0   2   4   Miles

Where WM Workers Live

Fort Lauderdale — 682
Wilton Manors — 302
Oakland Park — 287
Pompano Beach — 229
Lauderhill — 199
Hollywood — 144
Lauderdale Lakes — 142
Coral Spring — 133
Plantation — 125
Sunrise — 113
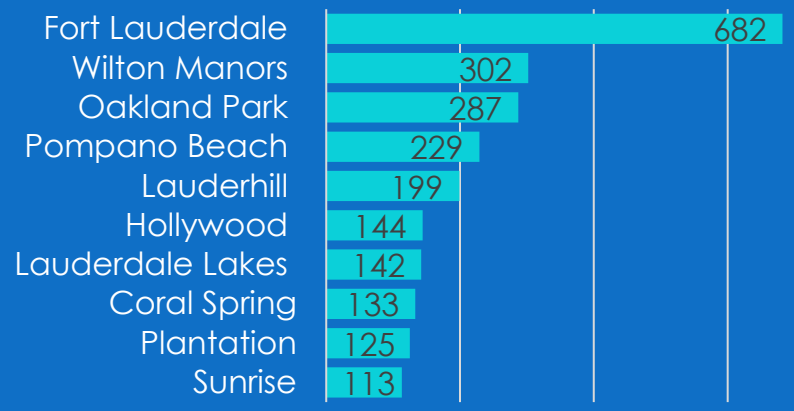
LEGEND

Where Wilton Manors Workers Live

- More than 300 workers
- 201 - 300 workers
- 151 - 200 workers
- 126 - 150 workers
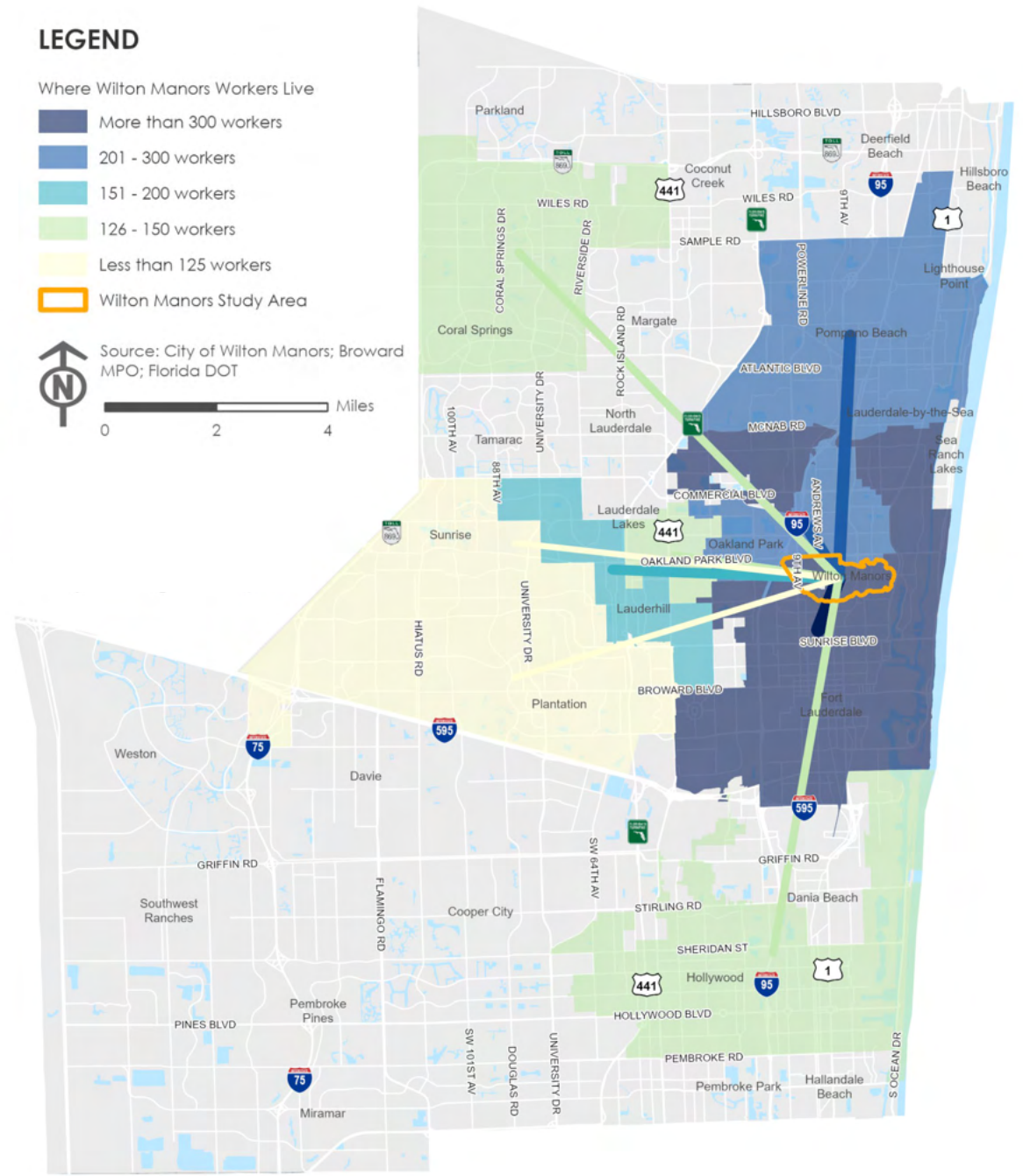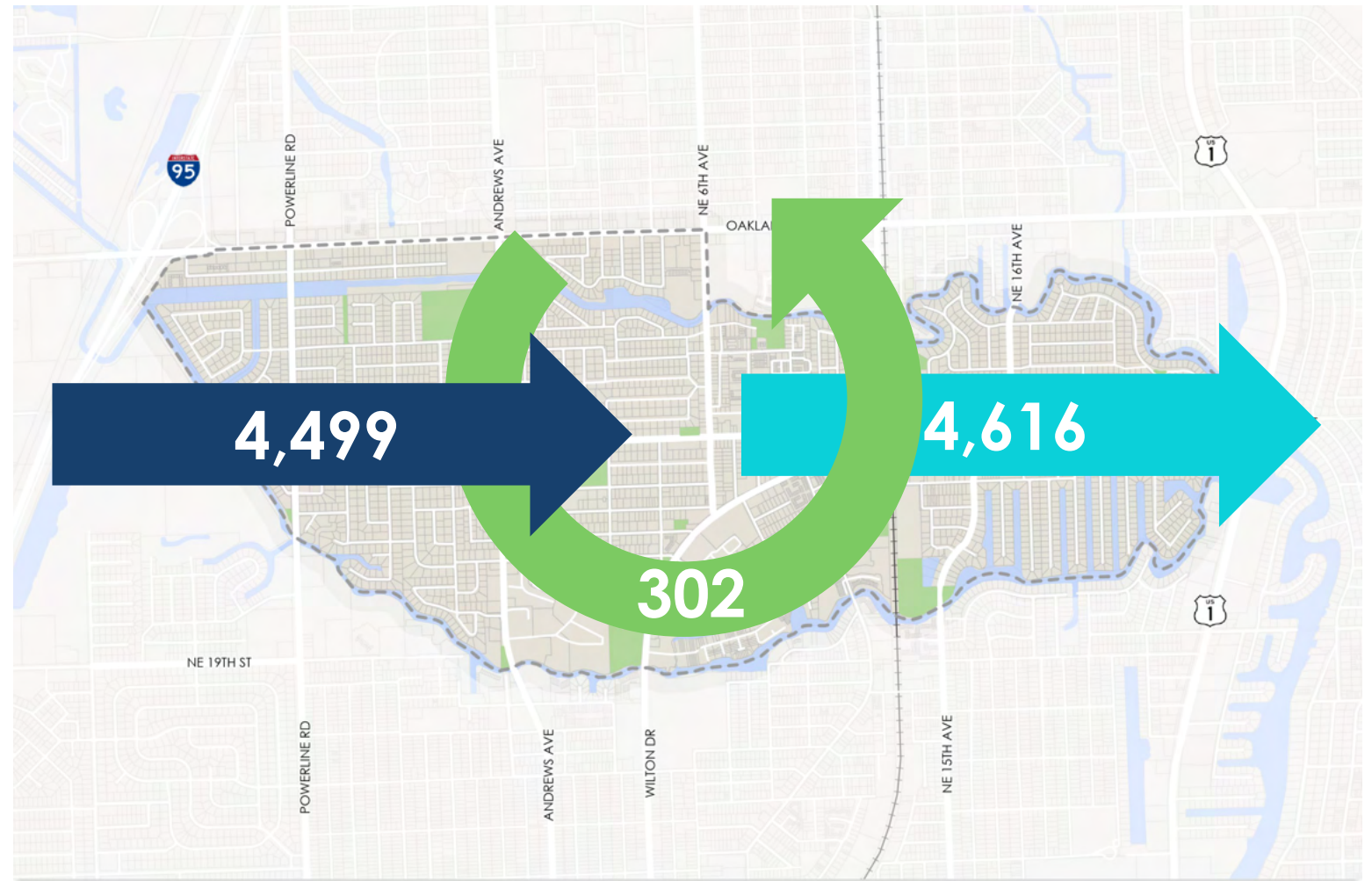- Less than 125 workers
- Wilton Manors Study Area

Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles
0   2   4

In Flow & Out Flow

- Most residents commute out of Wilton Manors for work and most workers in Wilton Manors commute in for work

- Only 3.2% of all workers work and live within Wilton Manors

4,499

302

4,616

LEGEND

⊢+⊣ Florida East Coast Railway

🟩 City Park

⌐ ⌐ Wilton Manors Study Area

Source: City of Wilton Manors; Broward MPO; Florida DOT, US Census 2020 LEHD

Miles
0   ¼   ½

Replica Data

- Replica is a software that uses a variety of sources to create a simulation of an area's travel patterns

- Replica Sources:
  - US Census Bureau
  - Mobile location data
  - Land use
  - Economic activity
  - and others

Getting to Work

All trips that end at a person's workplace (including commute trips and things like a trip back from lunch).

Getting to School

All trips to a person's school or college.

Travel for Daily Needs

All social trips and trips to places where people shop, dine, and run errands.

Getting Outside

All trips to recreational destinations like parks and trailheads (this does not include trips without a destination, like walking the dog or jogging).

How We Travel

- Most trips are taken by a personal vehicle—but is especially high for getting to work

- People walk and bike the most for getting to school and for daily needs

- Getting to school and getting outside are the shortest trips

- Transit is most used for daily needs and getting outside. On the weekends, it is also a larger portion of commuting trips.

Weekdays

	Drive	Transit	Bike	Walk	Other	Avg Travel Time [minutes]	Avg Travel Distance [miles]
Getting to Work	91.7%	1.0%	1.8%	4.7%	0.8%	26.6	16.0
Getting to School	79.8%	0.7%	3.0%	16.3%	0.2%	15.5	3.7
Travel for Daily Needs	85.5%	0.9%	1.0%	11.3%	1.3%	23.9	11.7
Getting Outside	89.6%	0.8%	1.3%	7.1%	1.2%	21.0	9.0

Weekends

|	Drive	Transit	Bike	Walk	Other	Avg Travel Time [minutes]	Avg Travel Distance [miles]
Getting to Work	92.5%	0.3%	1.9%	3.7%	1.5%	24.5	21.2
Getting to School	97.8%	0.7%	0.0%	0.7%	0.7%	18.0	4.7
Travel for Daily Needs	87.8%	0.5%	0.8%	9.2%	1.8%	20.7	9.8
Getting Outside	92.2%	0.3%	0.6%	5.2%	1.7%	18.9	7.5

Why We Travel

- Daily needs such as shopping and eating are the biggest reasons for travel for both Weekend and Weekdays

- Work trips are just over 15% of all daily trips on weekdays

Why People Travel to Wilton Manors

Trips only included where Wilton Manors is the **destination.**

Legend: ■ Weekend ■ Weekday
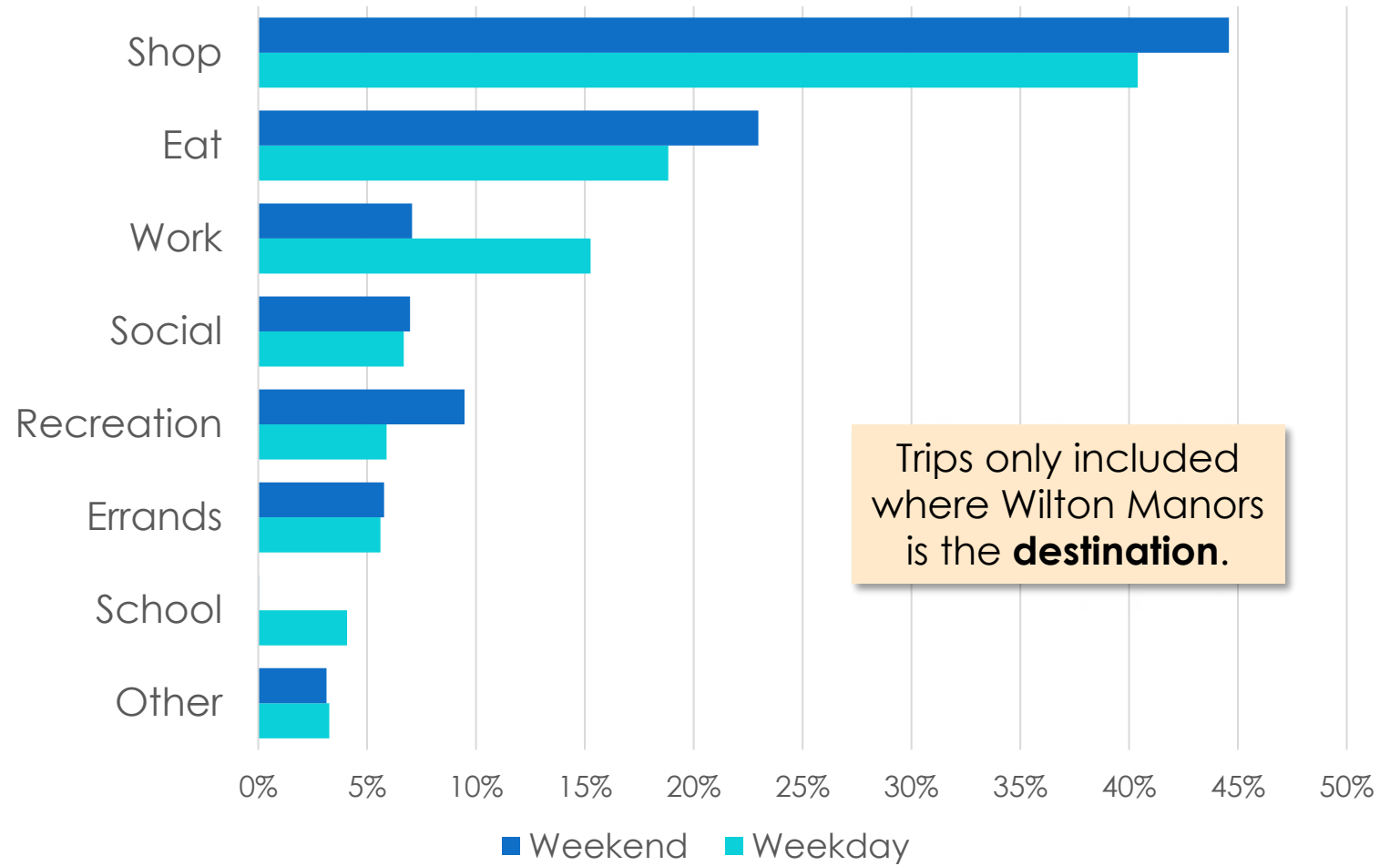
Future Land Use

- Future development is expected along
  - Five Points Area
  - Wilton Drive
  - Andrews Avenue
  - NE 26th Street from 5-Points to NE 15th Avenue
  - Oakland Park Boulevard
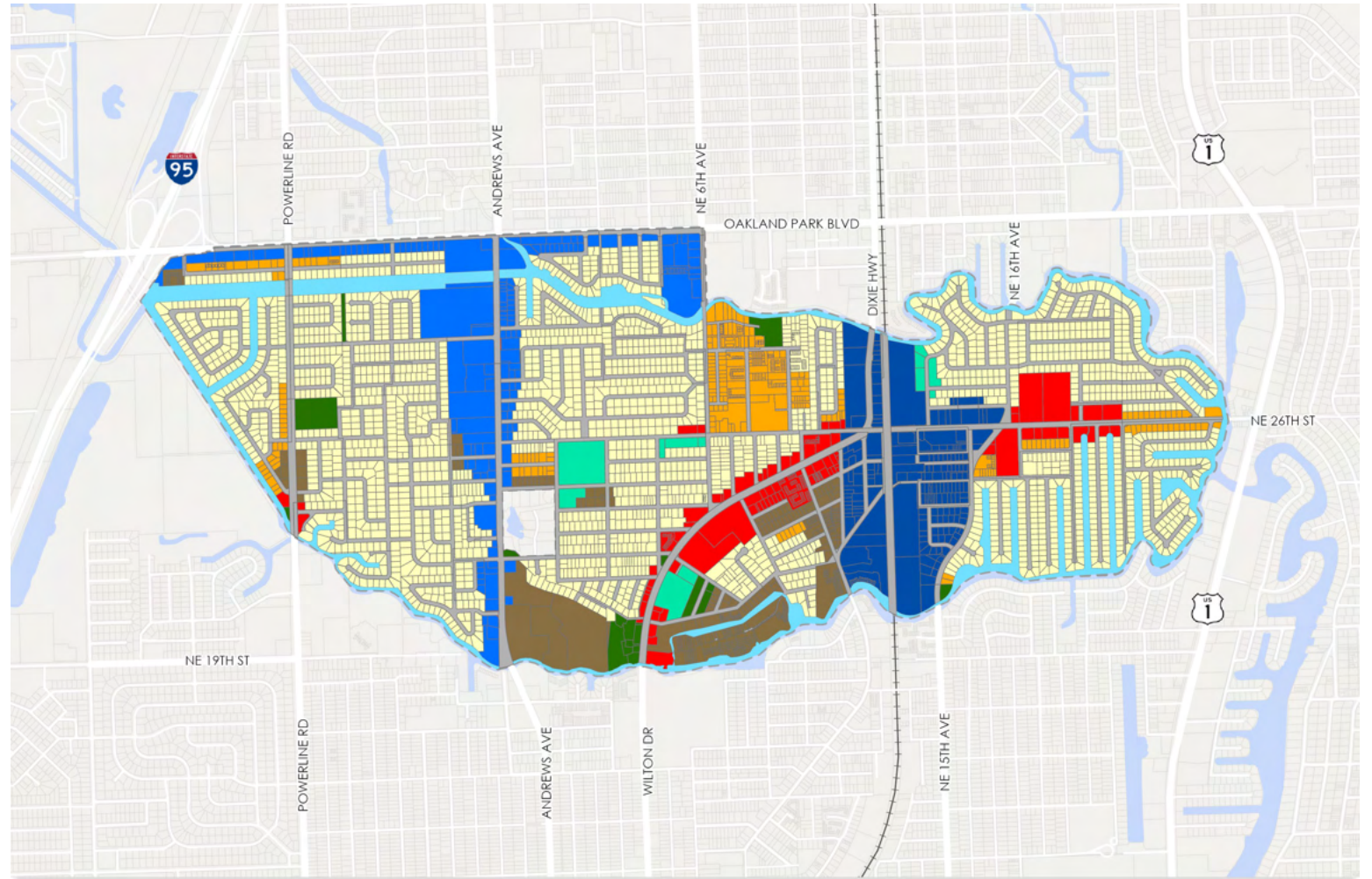
LEGEND

⊢⊣ Florida East Coast Railway

City Park

Wilton Manors Study Area

Future Land Use

- C - Commercial
- CF - Community Facilities
- R-LD - Low-5 Residential
- R-L/MD - Low-Medium-10 Residential
- R-MD - Medium-16 Residential

- OS - Recreation and Open Space
- Transportation
- TOC-West
- Transit Oriented Corridor
- Waterways

Source: City of Wilton Manors; Broward MPO; Florida DOT

Roadway Improvements & Potential Redevelopment

- Significant investments are being made in in-fill multi-family housing particularly around Wilton Drive and the 5-Points area

- Wilton Manors is becoming more urban with new developments increasing density and welcoming new residents

2916-2980 Andrews Avenue
20 DU Res.

The Avenue
186 DU Res.

New / Updated RRFB / Mid Block Crossings

NW 26th Street Improvements
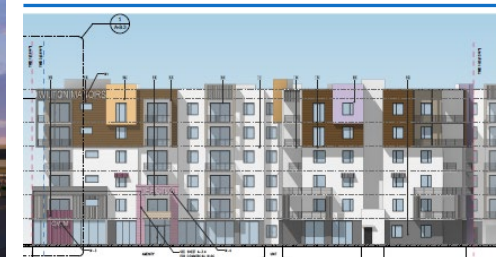Widen Sidewalks

Potential for Redevelopment

NW 29th Street Improvements
4' Bike Lanes | Complete Sidewalks | Replace Stamped Concrete

Andrews Avenue Improvements
Add Bike Lanes (in design)

WILMA
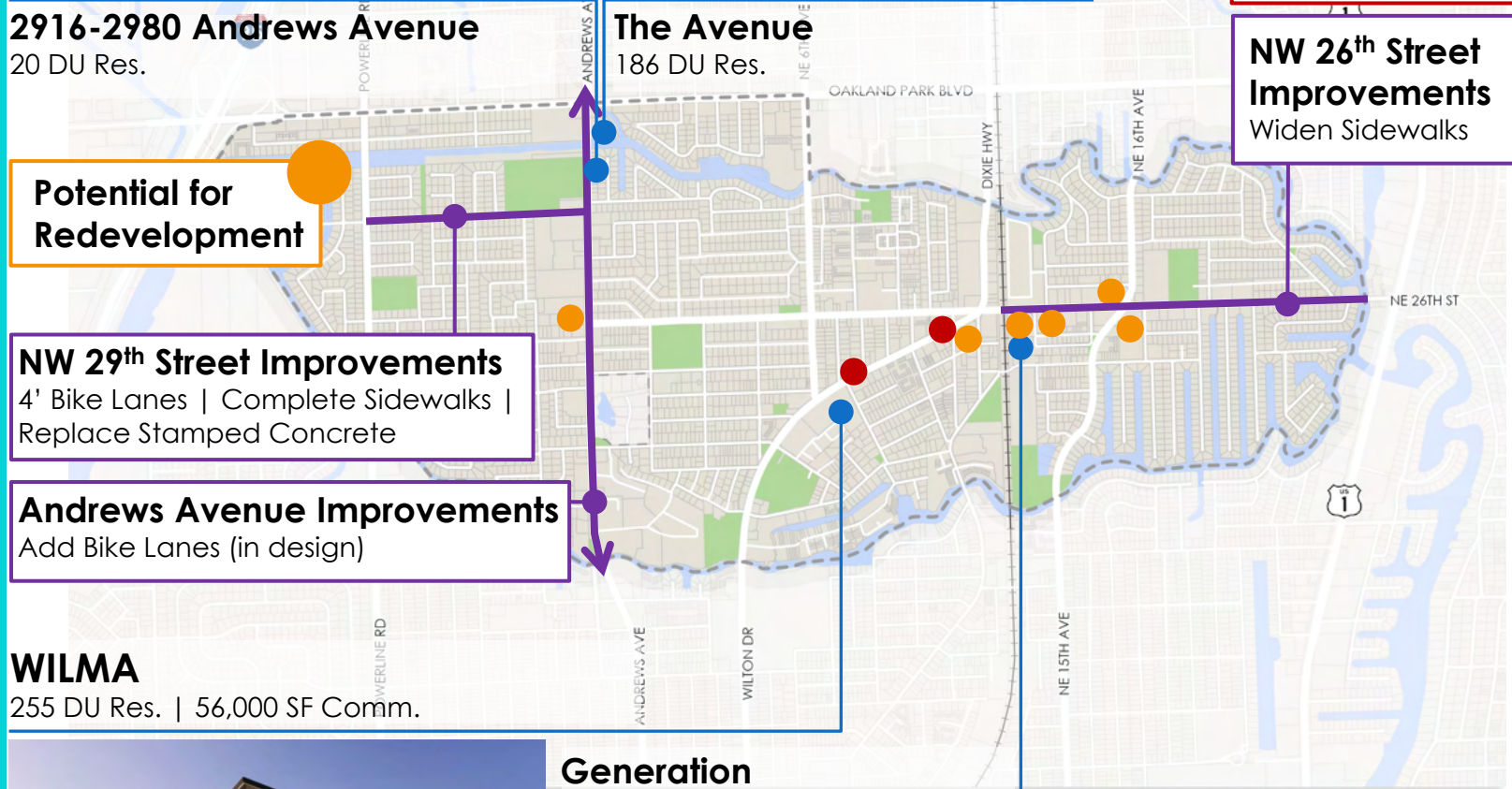255 DU Res. | 56,000 SF Comm.

Generation
190 DU Res. | 6,000 SF Comm.

Source: City of Wilton Manors; Broward MPO; Florida DOT

Destinations

- Wilton Drive is a local and regional attractor and is expanding with new development

- There are several parks and schools people may also want to bike or walk to
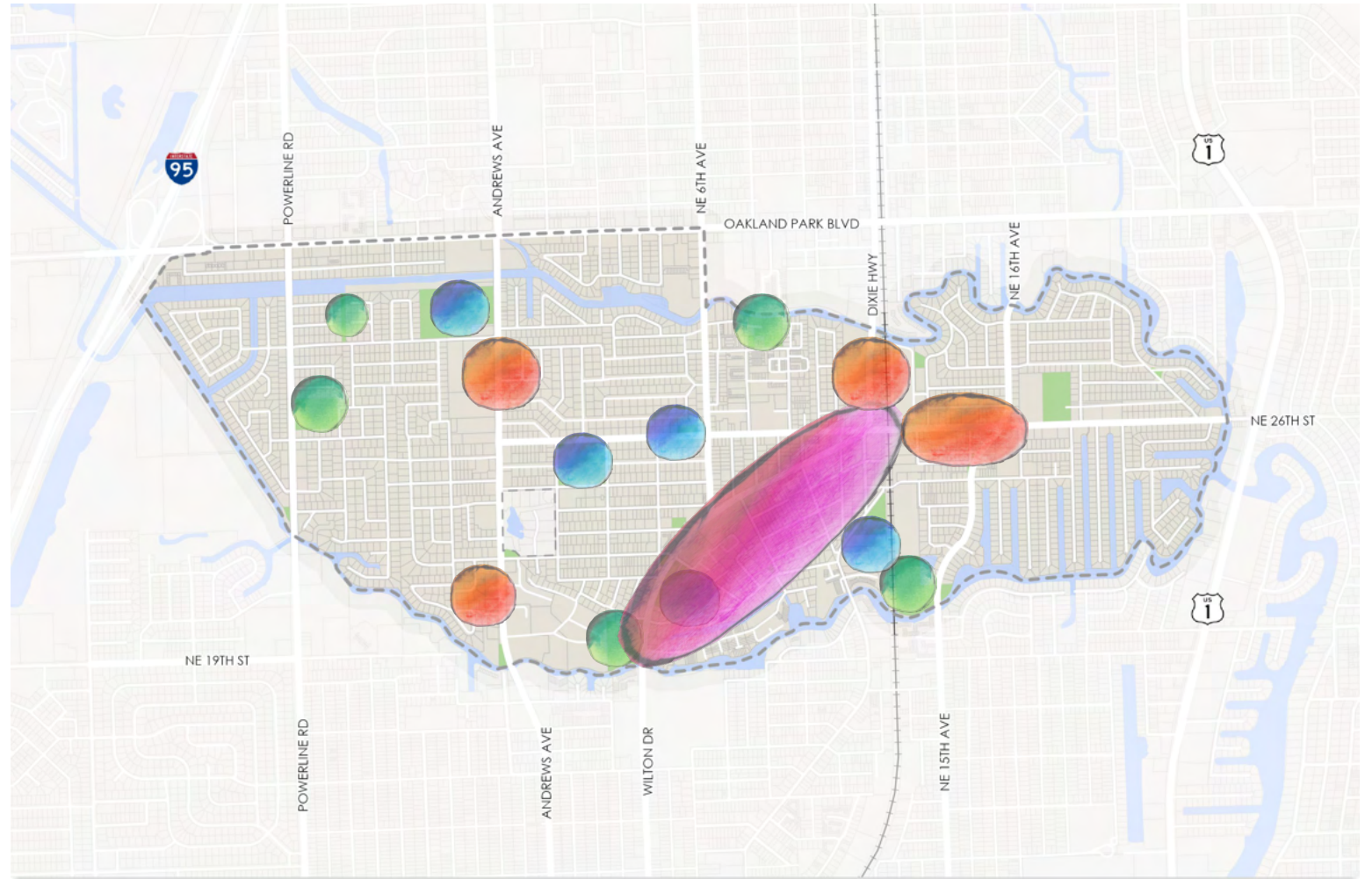
LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Living and Entertainment District

Commercial

Recreation

Community Services

Source: City of Wilton Manors; Broward MPO; Florida DOT
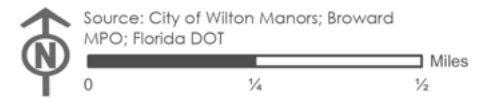
Character Areas

- Wilton Drive and the 5-points area is a special LGBTQ+ cultural hub comprised of bars, restaurants, art, and night life

- Auto-oriented development lines most corridors

- Wilton Manors is predominantly made up of residential, single-family neighborhoods

LEGEND

Living and Entertainment Center
Auto Oriented Commercial
Established Neighborhood
Florida East Coast Railway
City Park
Wilton Manors Study Area

Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles
0   ¼   ½

Road Network

- Dense network of local streets

- Only one east/west through street, which does not extend all the way

- Powerline Rd has regional importance

- Arterials serve both local access and through trips
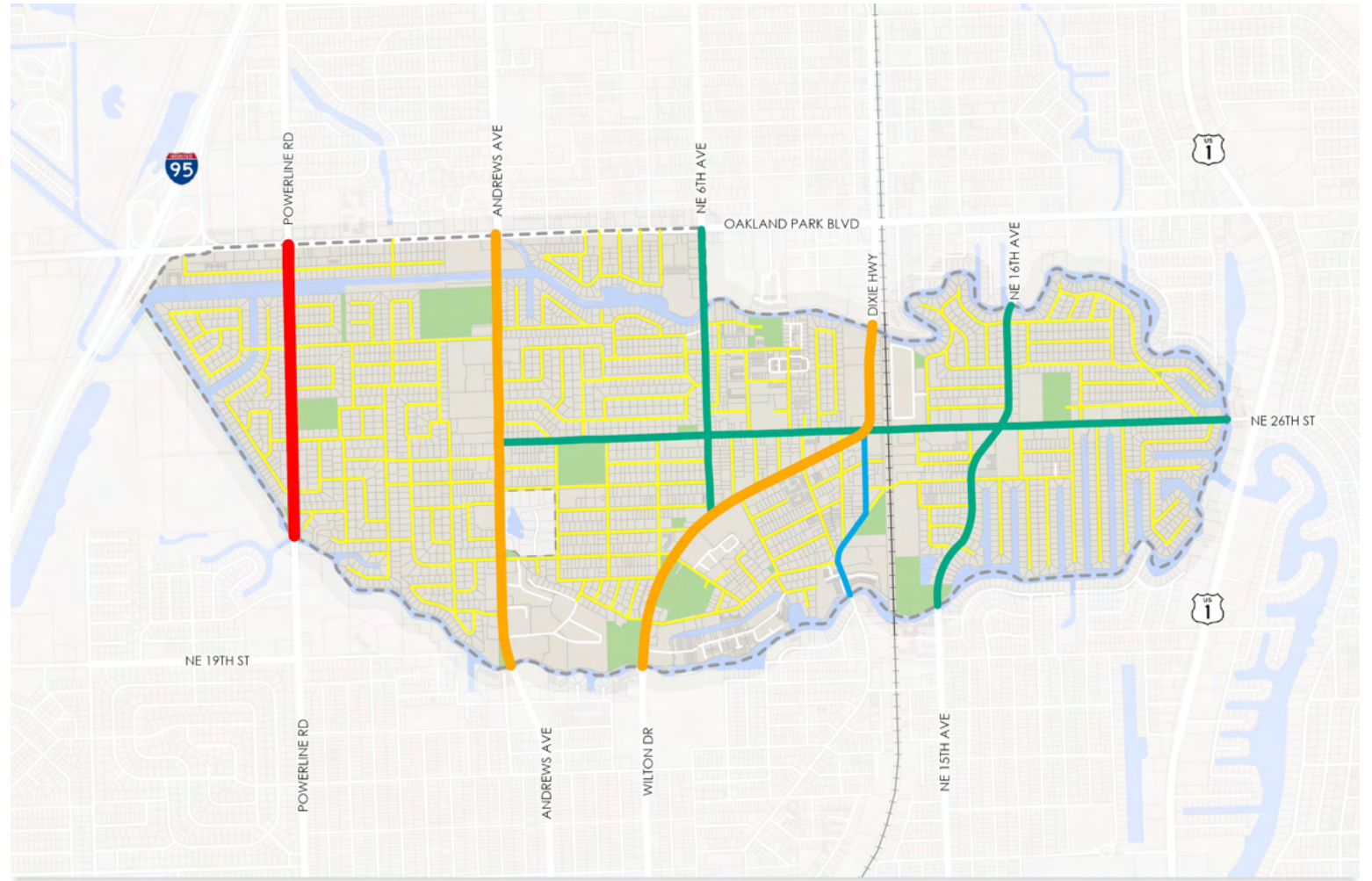
LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Functional Classification

Principal Arterial

Minor Arterial

Major Collector

Minor Collector

Local Street

Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles
0   ¼   ½

Road Jurisdiction

- All arterial roads in Wilton Manors are under the jurisdiction of FDOT or Broward County

- NE 6th Avenue and NE 26th Street East of Dixie Hwy are the only Major Collectors outside of Wilton Manors jurisdiction
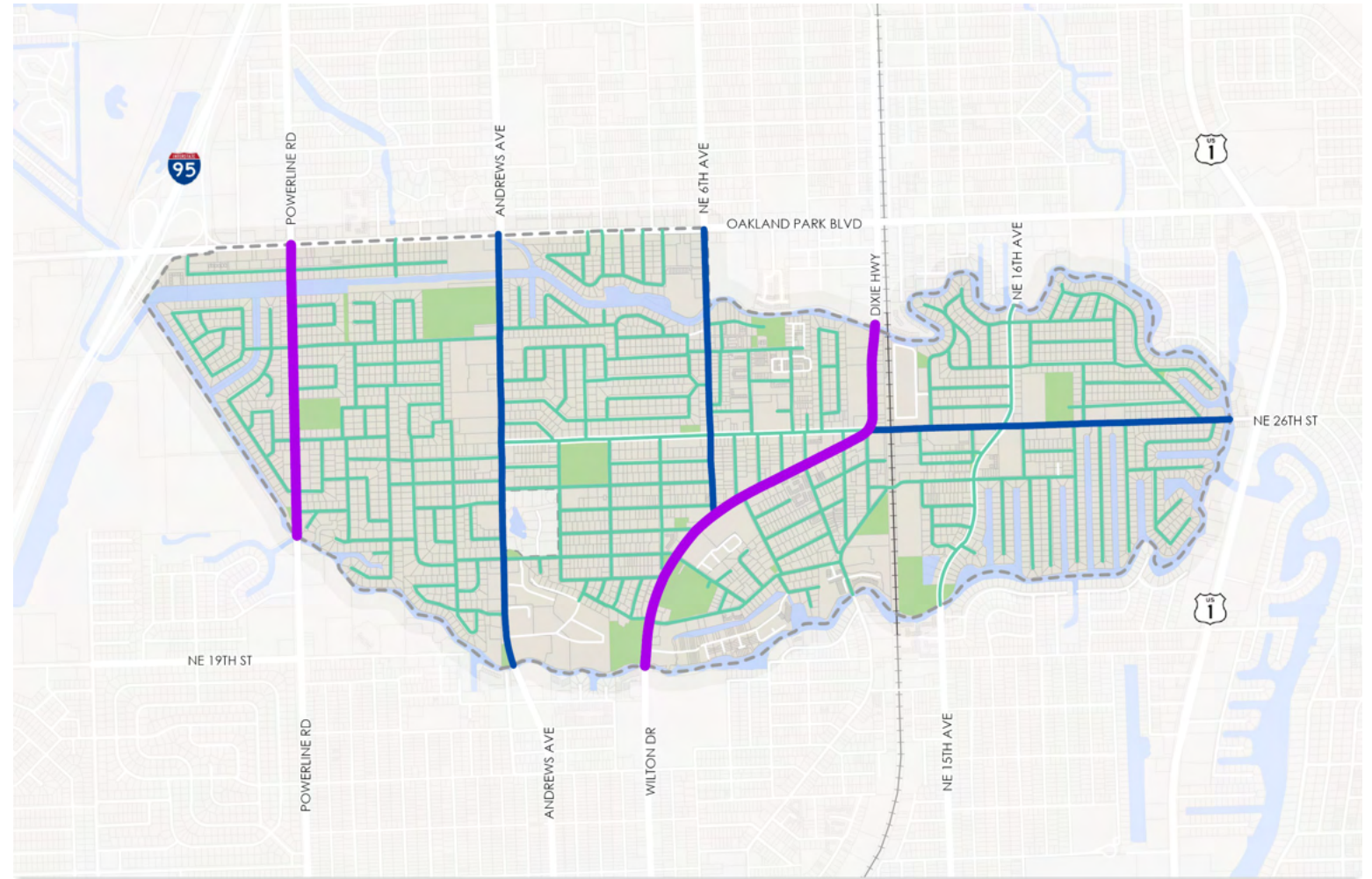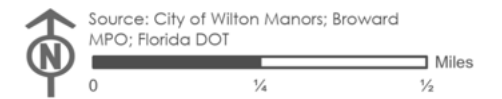

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

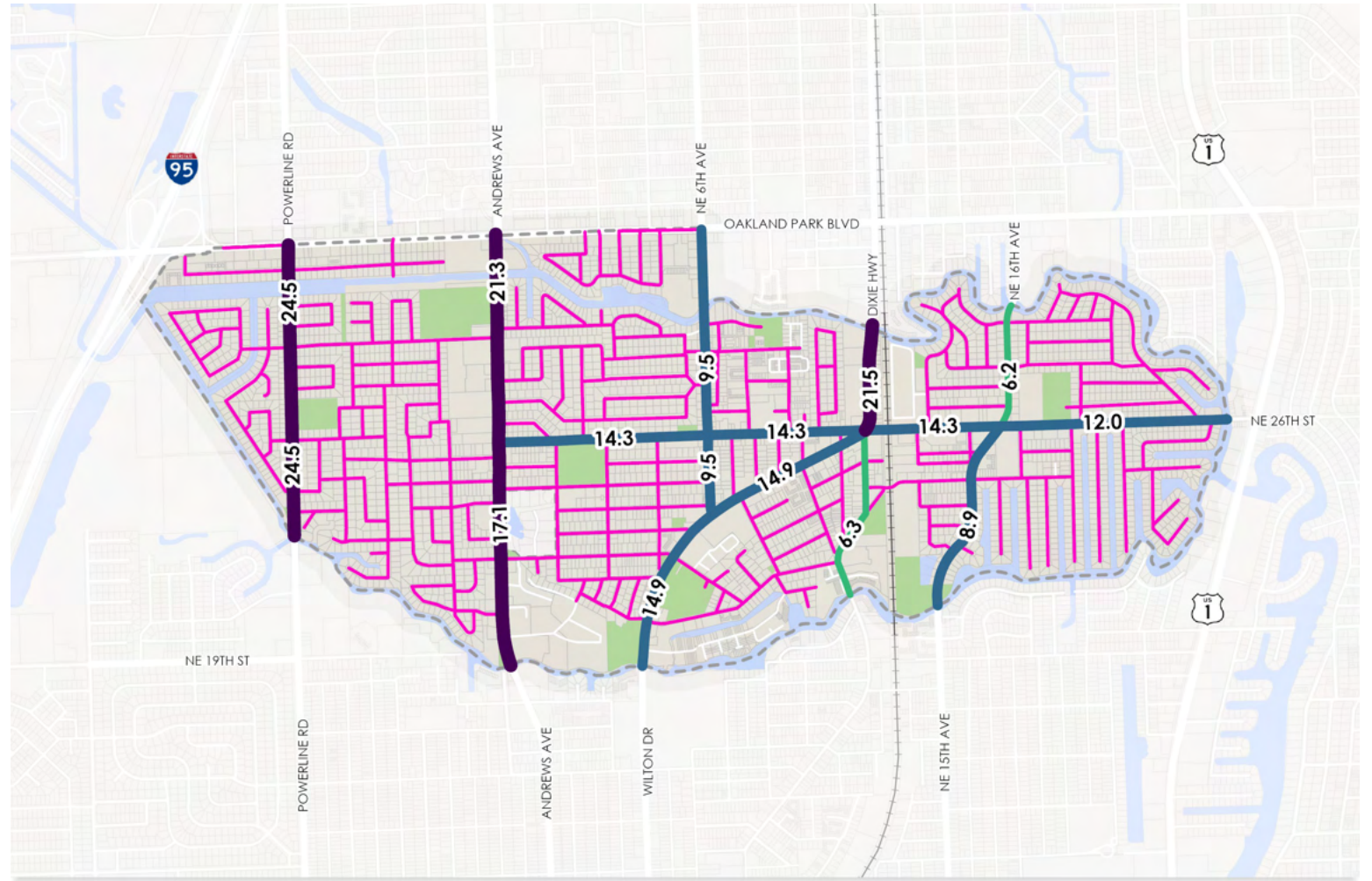Roadway Jurisdiction

FDOT

Broward County

Wilton Manors

Source: City of Wilton Manors; Broward MPO; Florida DOT

Daily Volumes

- Highest volumes on north-south streets

LEGEND

- ⊢──┤ Florida East Coast Railway
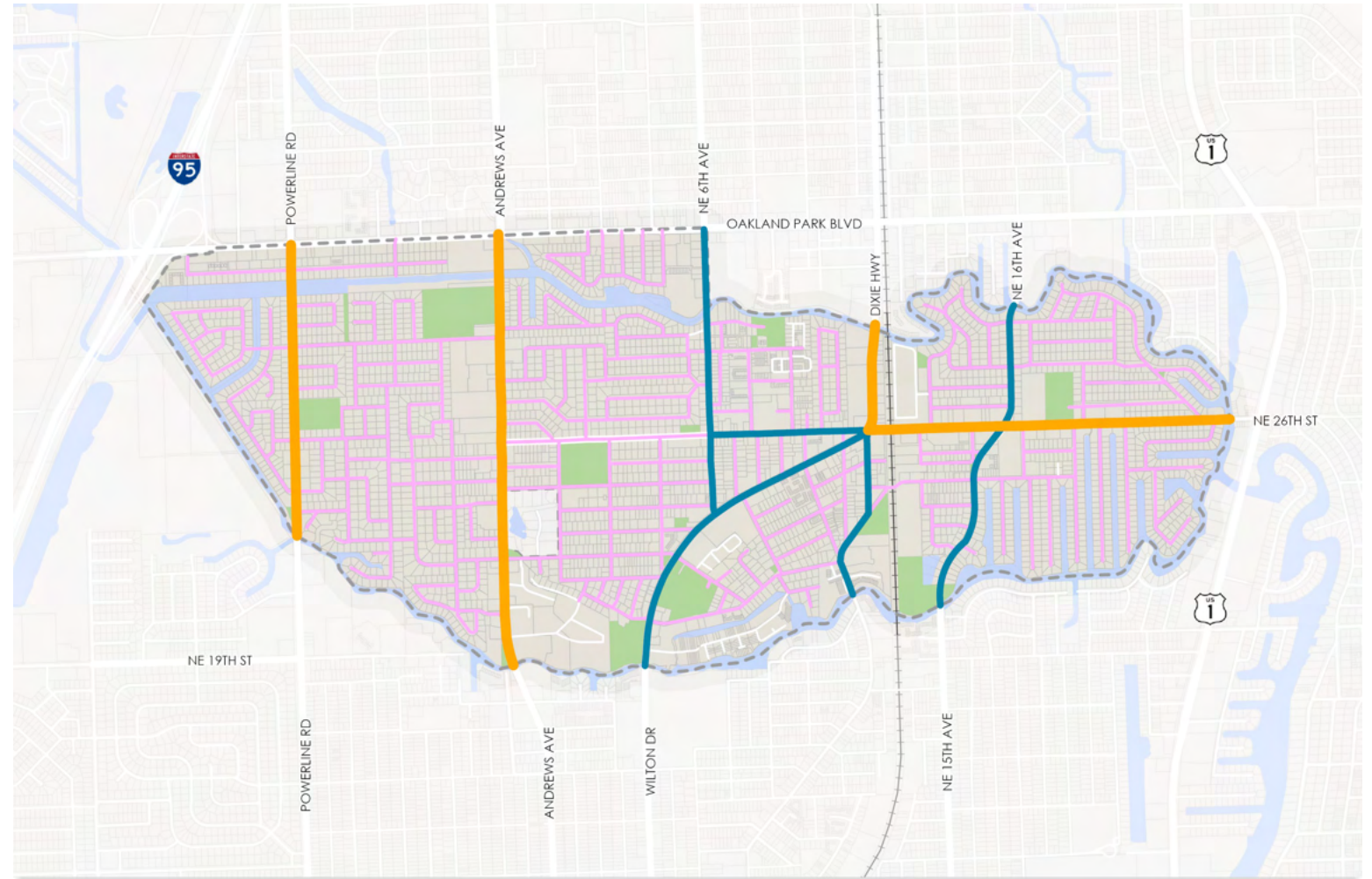- City Park
- Wilton Manors Study Area

AADT

- 16,001 - 24,500
- 7,001 - 16,000
- 2,501 - 7,000
- 0 - 2,500

Source: City of Wilton Manors; Broward MPO; Florida DOT

Posted Speed Limits

- Higher speeds create barriers to crossing
  - Powerline Rd
  - Andrews Avenue
  - Dixie Hwy (n of NE 26th ST)
  - NE 26th St

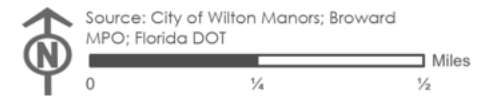- Speed limit was reduced from 40 MPH to 35 MPH on Powerline Road north of NW 29th Street in early 2023

LEGEND

Posted Speed Limit

- Florida East Coast Railway
- City Park
- Wilton Manors Study Area
- 35
- 30
- 25

Source: City of Wilton Manors; Broward MPO; Florida DOT
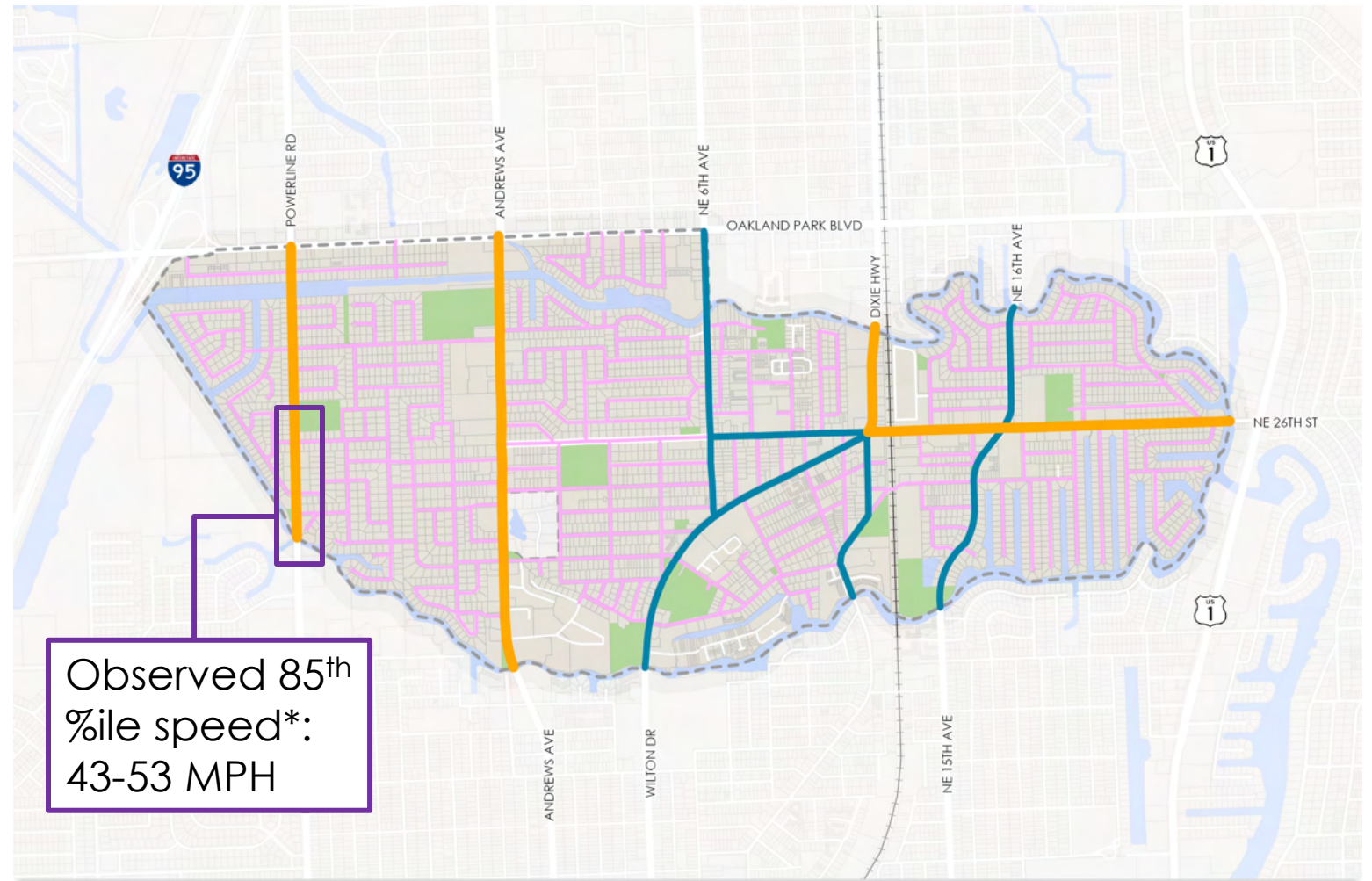
Roadway Speeds

- Higher speeds create barriers to crossing
  - Powerline Rd
  - Andrews Avenue
  - Dixie Hwy (n of NE 26th ST)
  - NE 26th St

Observed 85th %ile speed*: 43-53 MPH

LEGEND

- ⊢—⊣ Florida East Coast Railway
- City Park
- Wilton Manors Study Area

Posted Speed Limit
- — 35
- — 30
- — 25

Source: City of Wilton Manors; Broward MPO; Florida DOT
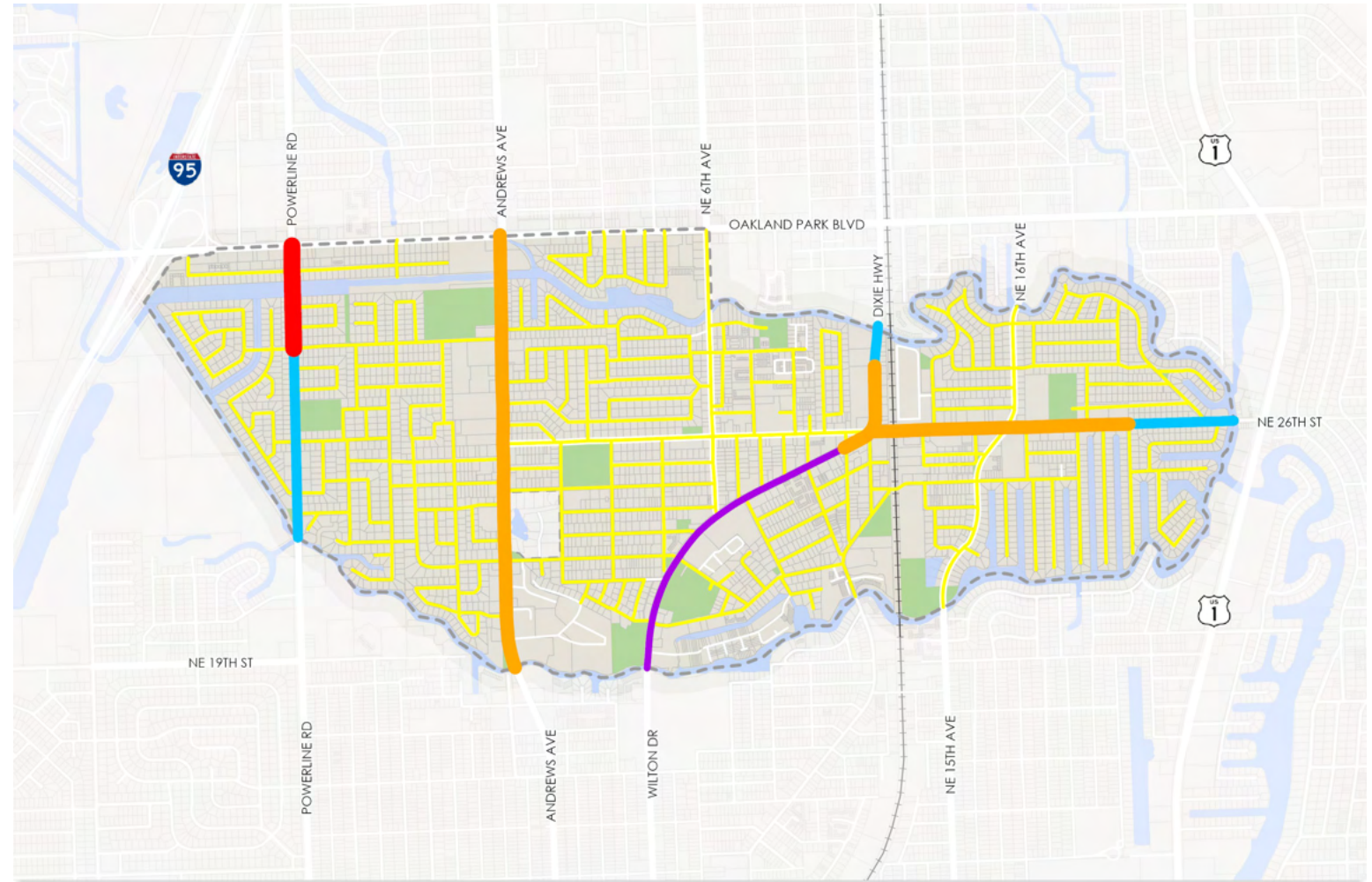
*Source: FDOT Powerline Road RSA | 2021

Number of Lanes

- Continued evaluation comparing number of lanes to traffic volumes

LEGEND

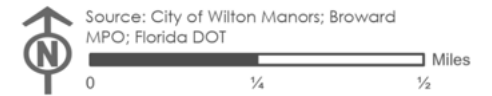|	
Florida East Coast Railway	
City Park	
Wilton Manors Study Area	

Number of Lanes

- 6 Lane
- 5 Lane
- 4 Lane
- 3 Lane
- 2 Lane

Source: City of Wilton Manors; Broward MPO; Florida DOT

Street Safety (2018 - 2022)

- Total Crashes: 1,353

- Crash analysis considers segments with 5 crashes or more

- Weighted Crashes
  - Fatal: 100 points
  - Severe Injury: 75 points
  - Injury: 25 points
  - Non-Injury: 1 point

- Highest crash corridors:
  - Powerline Road
  - Andrews Avenue
  - NE 26th Street
  - Wilton Drive
  - NE 15th Avenue
  - Dixie Highway
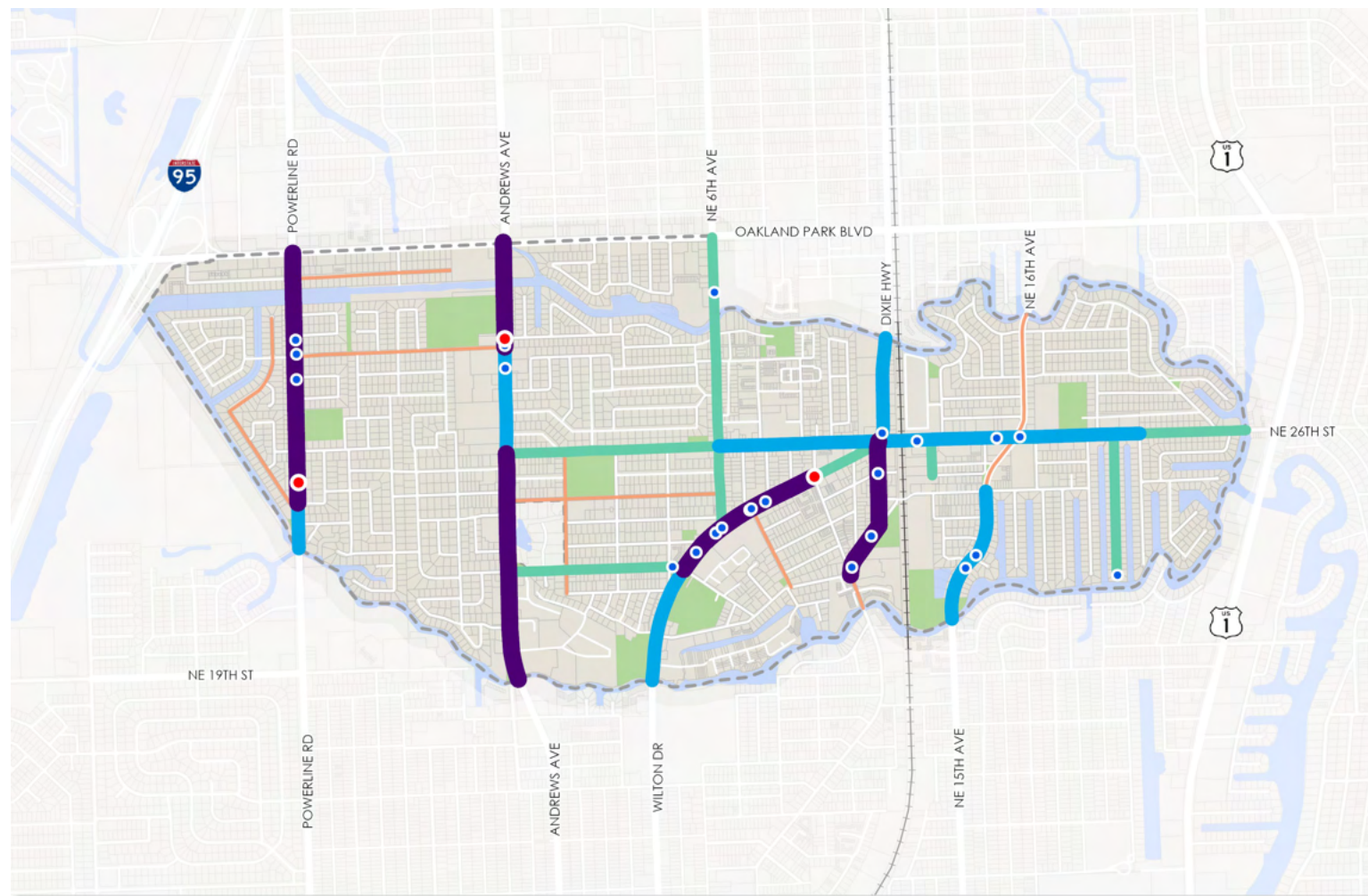
LEGEND

Weighted All Crashes Per Mile

—|—|— Florida East Coast Railway
Highest

City Park

Wilton Manors Study Area

Lowest

Deaths & Serious Injuries
- Death
- Serious Injury

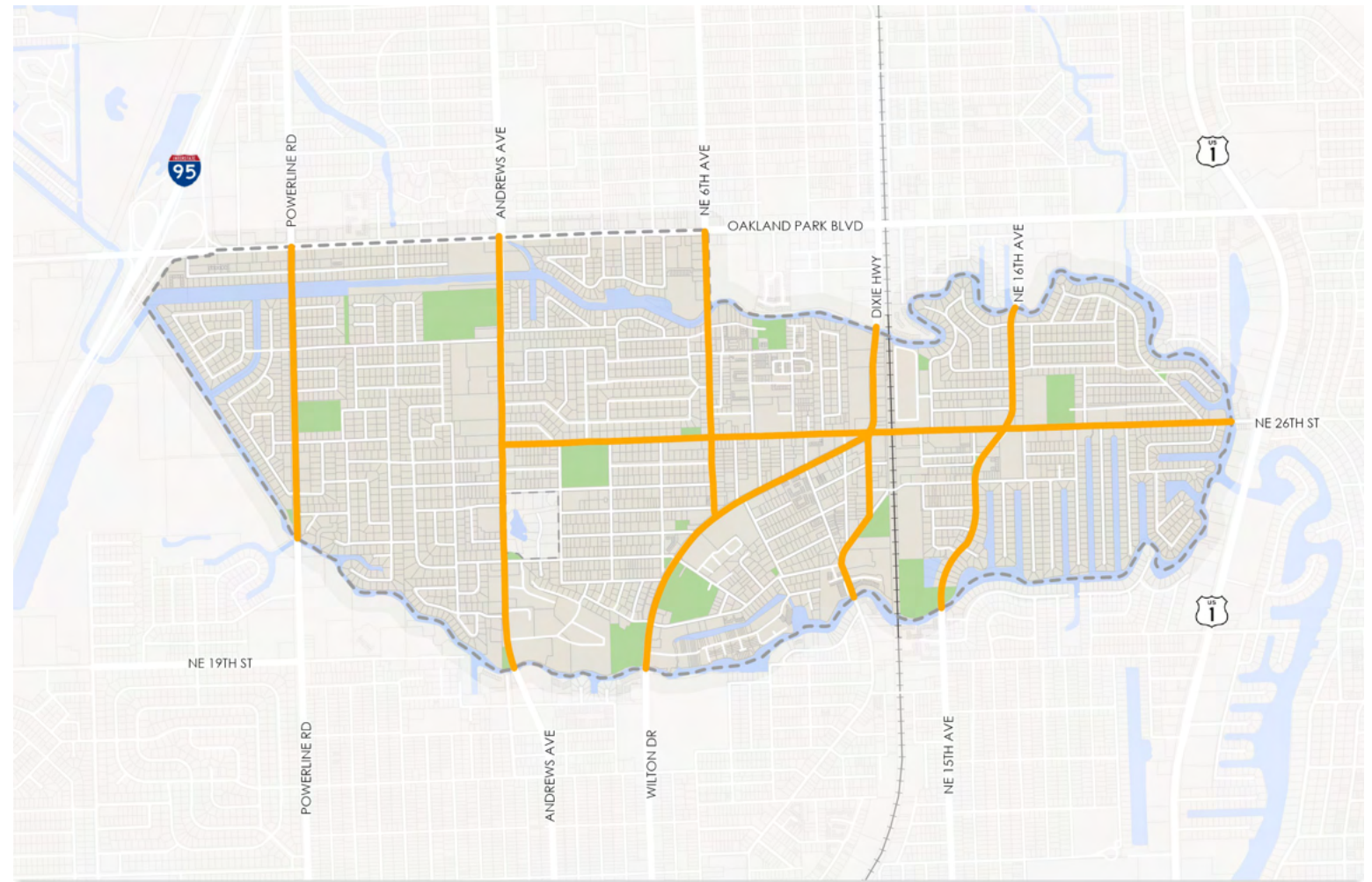Source: City of Wilton Manors; Broward MPO; Florida DOT

Data Source: SignalFour Analytics, 2018-2022

Context Classification

- Note: Context Classification developed by FDOT District 4. Wilton Drive may be more appropriately classified as C5..

- Further information on Context Classification can be found in the FDOT Context Classification Guide

- https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/roadway/completestreets/files/fdot-context-classification.pdf

LEGEND

⊢—⊣ Florida East Coast Railway

City Park

Wilton Manors Study Area

Context Classification

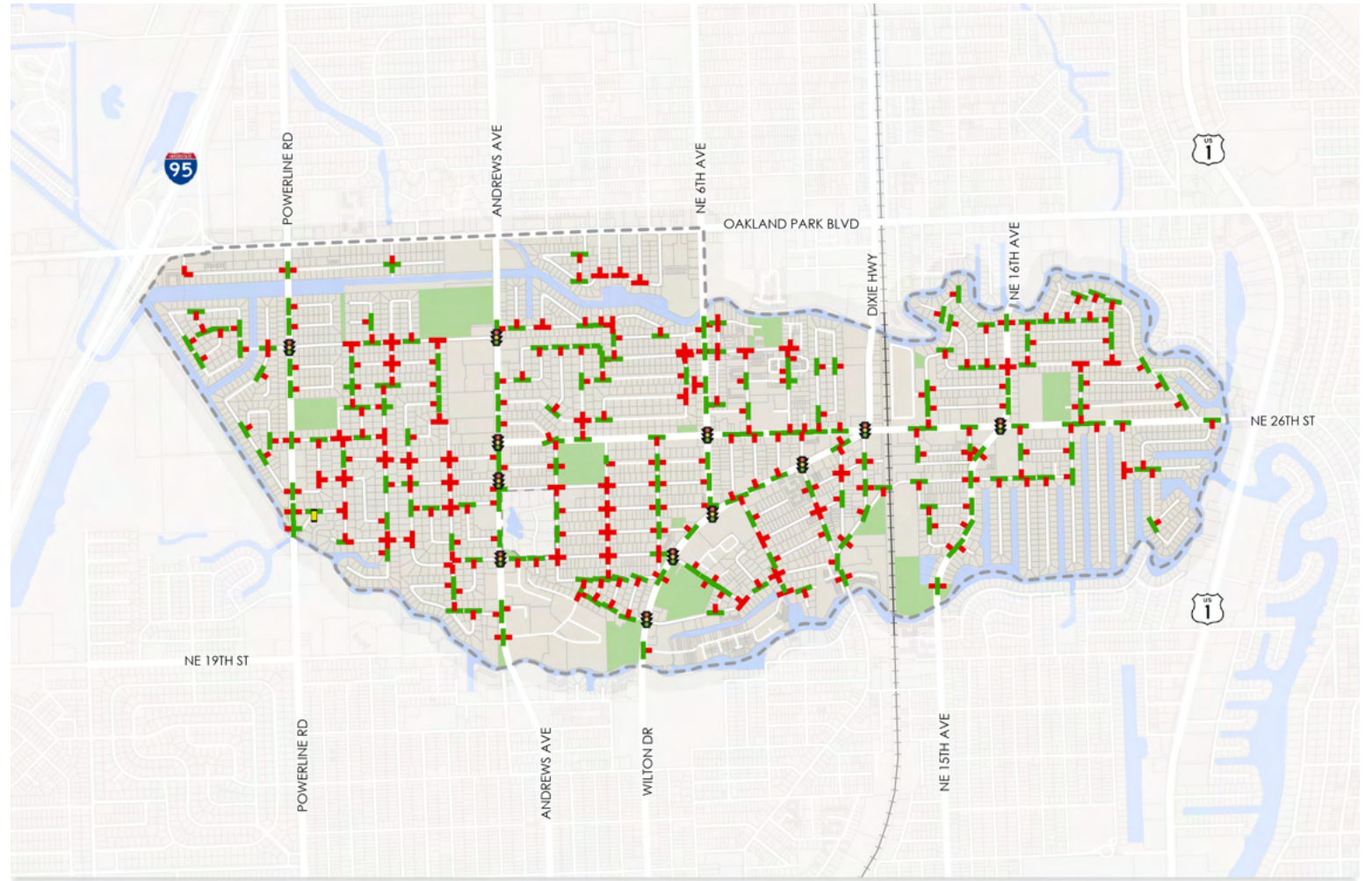━━━ C4 - Urban General

Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles
0   ¼   ½

Intersection Control

- Most local streets stop controlled

- Signals at many key junctions

- Consider intersection design for further comfort

LEGEND

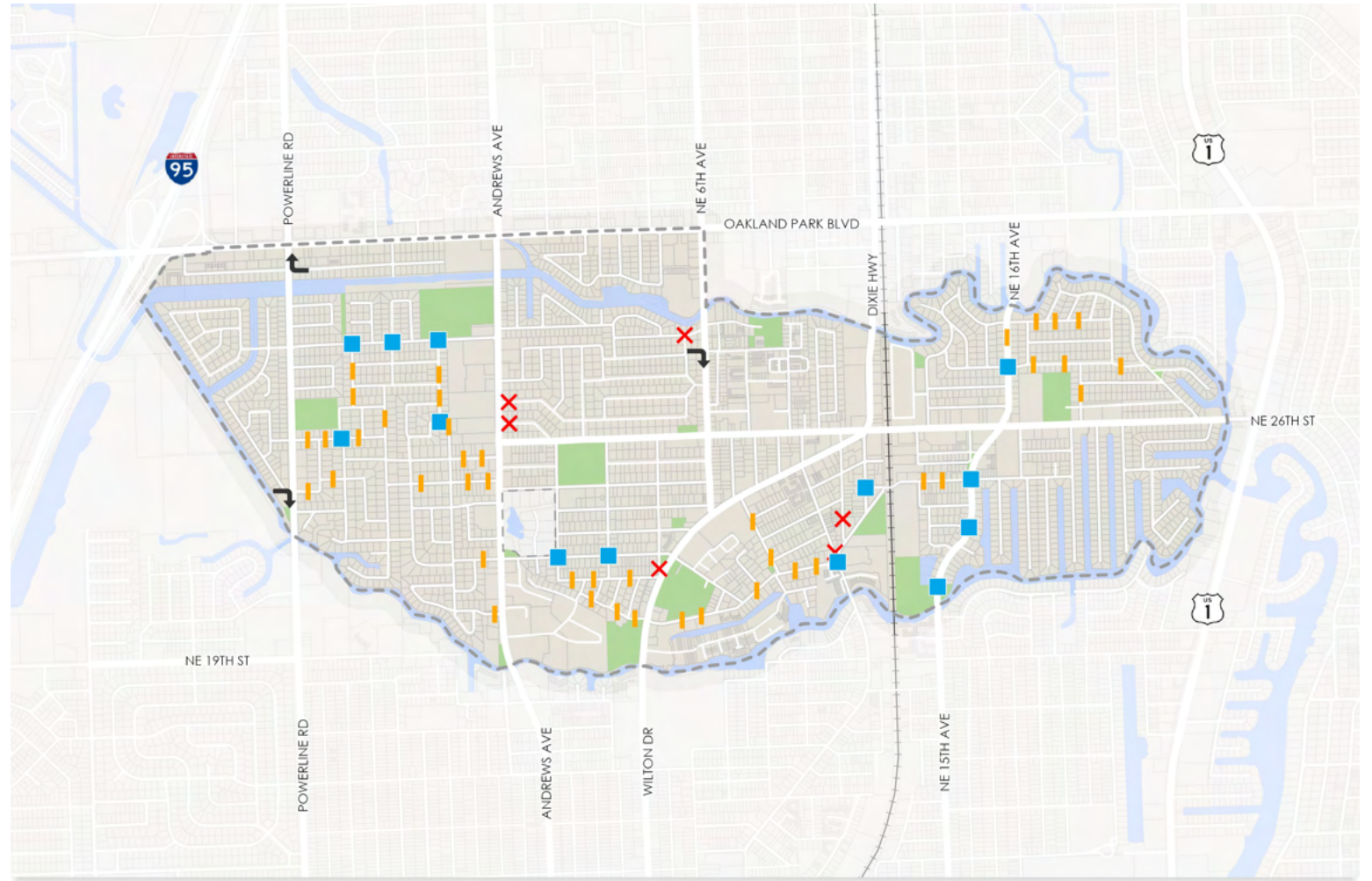Florida East Coast Railway

City Park

Wilton Manors Study Area

Uncontrolled

Stop

Yield

Traffic Signal

Source: City of Wilton Manors; Broward MPO; Florida DOT

Traffic Calming

- Several residential neighborhoods already have significant traffic calming measures implemented

- A recent study recommended additional traffic calming elements for the West Side (west of Andrews Avenue)

LEGEND

Florida East Coast Railway
City Park
Wilton Manors Study Area

Traffic Calming
Speed Hump
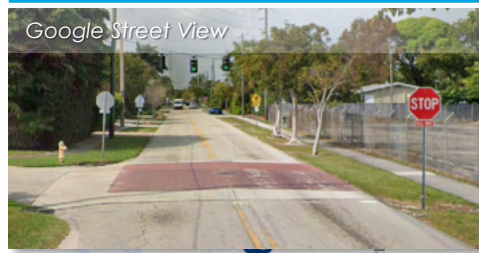Raised Intersection
Exit Only
Road Closure

Source: City of Wilton Manors; Broward MPO; Florida DOT

Traffic Calming

- Several residential neighborhoods already have significant traffic calming measures implemented

- A recent study recommended additional traffic calming elements for the West Side (west of Andrews Avenue)

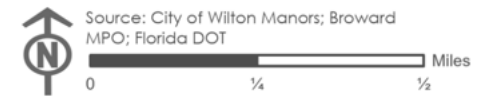**Speed Table**

Road Closure

Speed Hump

Exit Only

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Traffic Calming

| Speed Hump

■ Raised Intersection

➤ Exit Only

✗ Road Closure

Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles
0   ¼   ½

Traffic Calming

- Several residential neighborhoods already have significant traffic calming measures implemented

- A recent study recommended additional traffic calming elements for the West Side (west of Andrews Avenue)

LEGEND

Florida East Coast Railway
City Park
Wilton Manors Study Area

Traffic Calming
Speed Hump
Raised Intersection
Exit Only
Road Closure

Existing Land Use (2018)
Commercial
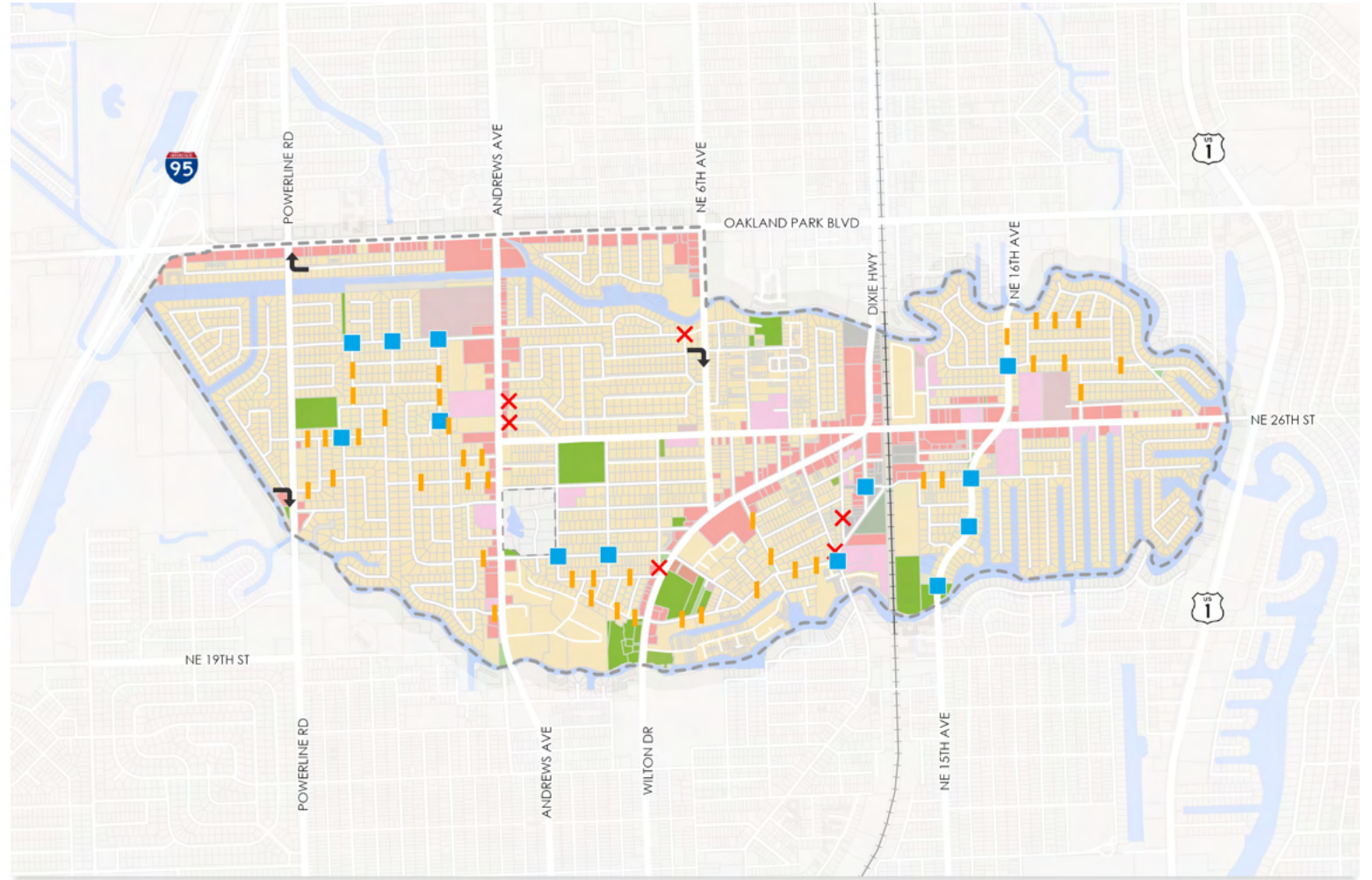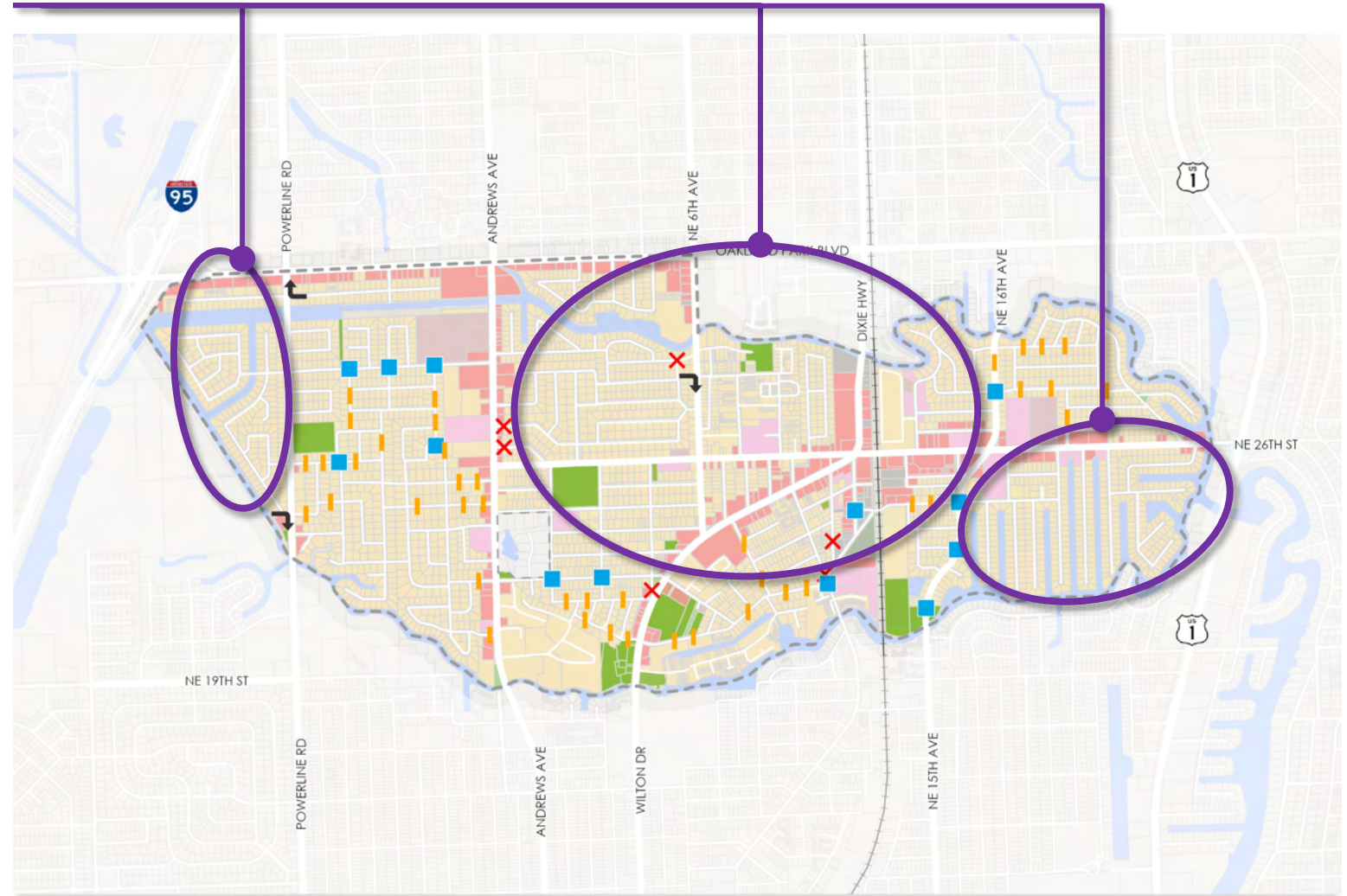Civic Use
Industiral
Institutional
Residential

Source: City of Wilton Manors; Broward MPO; Florida DOT

Traffic Calming

- Several residential neighborhoods already have significant traffic calming measures implemented

- A recent study recommended additional traffic calming elements for the West Side (west of Andrews Avenue)

Areas with Fewer Traffic Calmed Streets

LEGEND
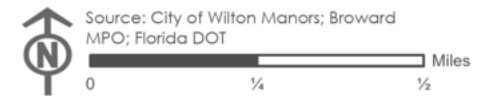
Florida East Coast Railway

City Park

Wilton Manors Study Area

Traffic Calming

Speed Hump

Raised Intersection

Exit Only

Road Closure

Existing Land Use (2018)

Commercial

Civic Use

Industiral

Institutional

Residential

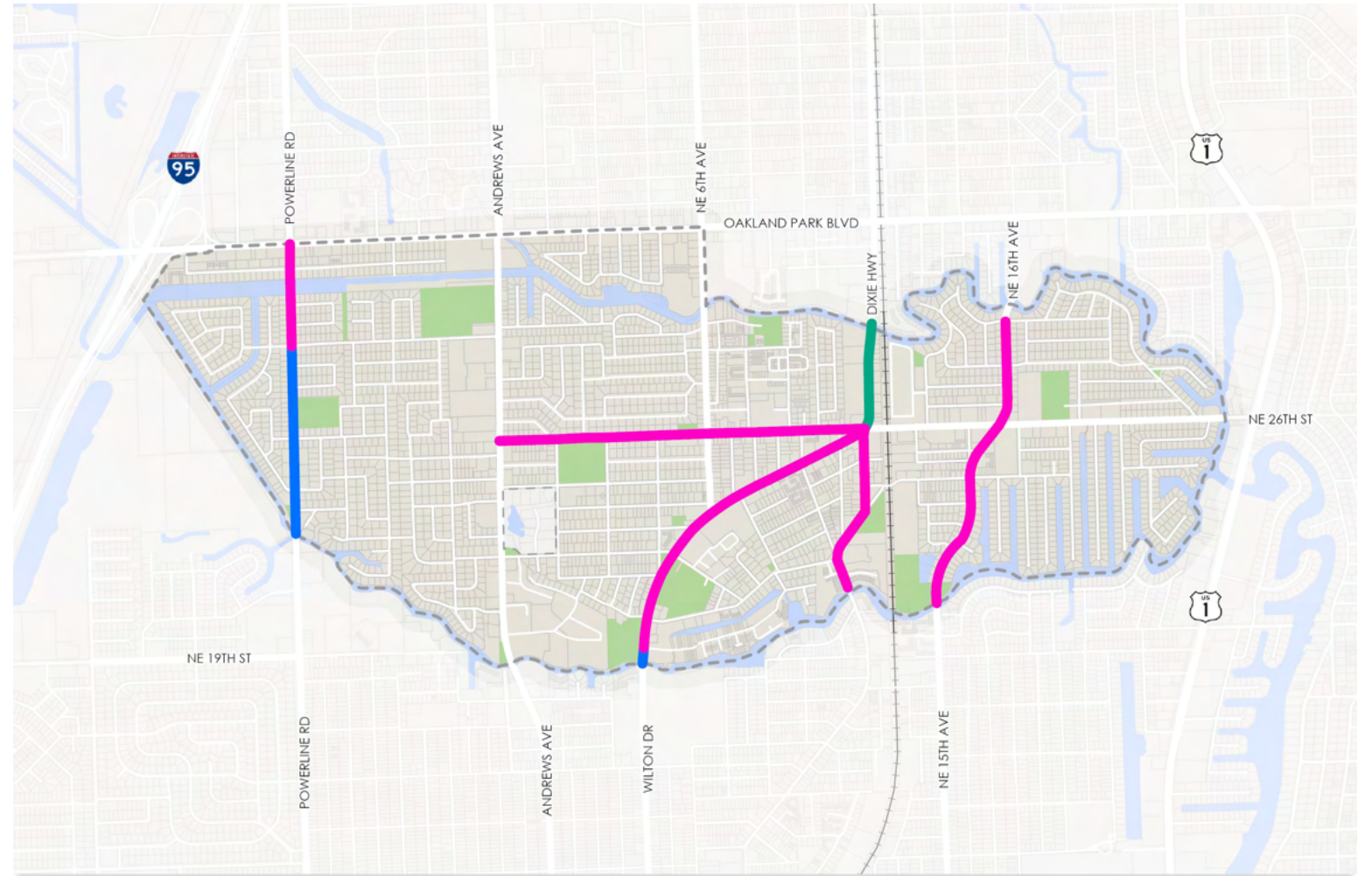Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles
0   ¼   ½

Bike Network

- Disconnected network

- Andrews Avenue, NE 6th Avenue missing infrastructure

- No formal E/W route through City

- Bike lanes generally don't match context

- Potential for comfortable bike boulevard network

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Bikeways

Buffered Bike Lane

Bike Lane

Bike Lane (Southbound Only)

Source: City of Wilton Manors; Broward MPO; Florida DOT

Bike Network

- Disconnected network

- Andrews Avenue, NE 6th Avenue missing infrastructure

- No formal E/W route through City

- Bike lanes generally don't match context

- Potential for comfortable bike boulevard network

Buffered Bike Lane

Bike Lane

Bike Lane

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Bikeways

Buffered Bike Lane

Bike Lane

Bike Lane (Southbound Only)
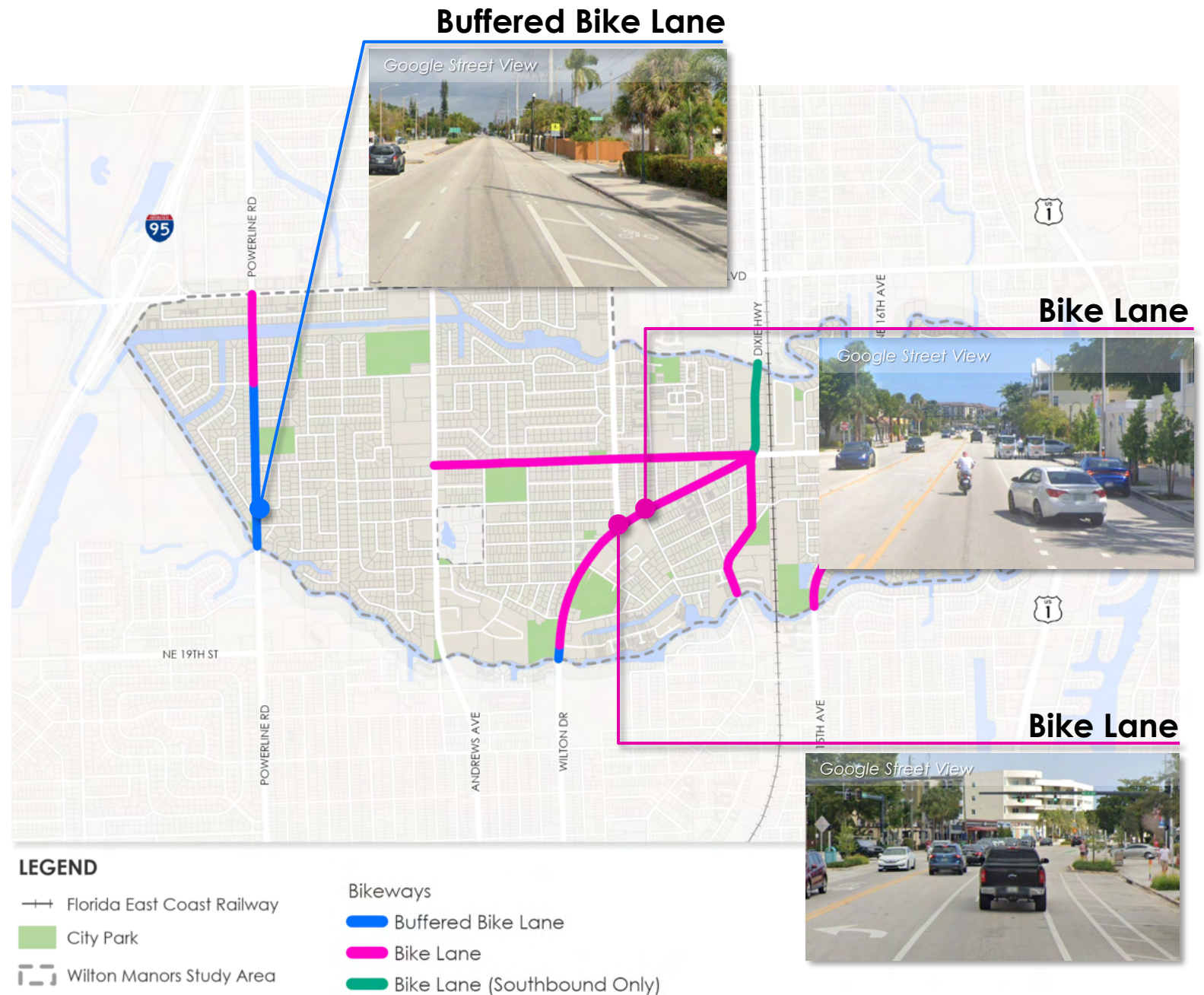
Walking & Biking Safety (2018 - 2022)

- Total Crashes: 86

- Weighted Crashes
  - Fatal: 100 points
  - Severe Injury: 75 points
  - Injury: 25 points
  - Non-Injury: 1 point

- East / West Crossings
  - Powerline Road
  - Andrews Avenue
  - Dixie Highway

- North / South Crossings
  - Wilton Drive
  - NE 26th St

Note: Crash data is based on police reporting at the scene and not severity as determined by a trained medical professional. For this and other reasons, crashes involving people walking and biking, and particularly reports of injury severity are often underreported.
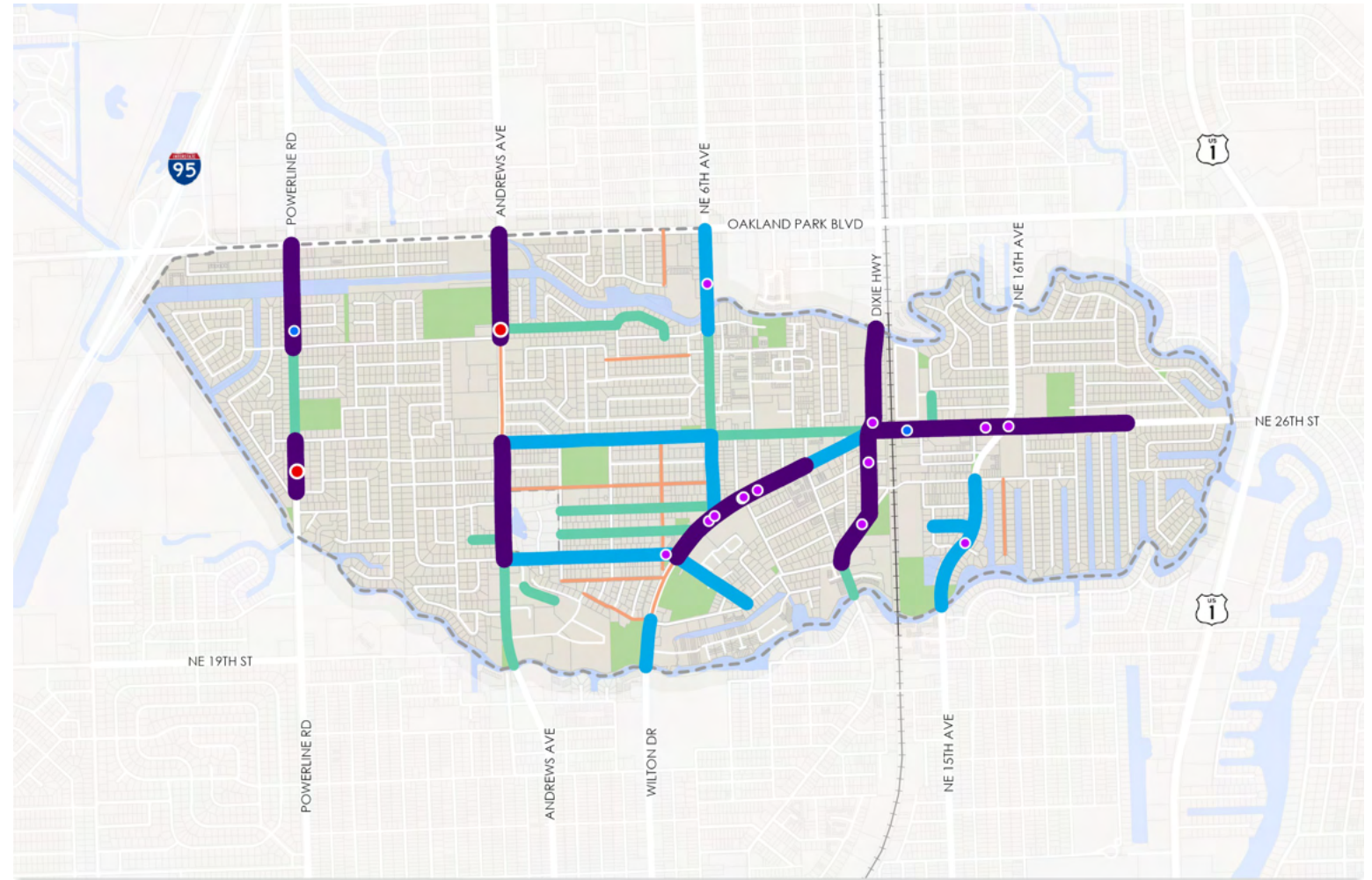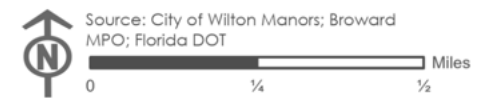

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Weighted Walking & Biking Crashes Per Mile

Highest

Lowest

Pedestrian Death

Serious Injury - Walking

Serious Injury - Biking

Source: City of Wilton Manors; Broward MPO; Florida DOT

Data Source: SignalFour Analytics, 2018-2022

Where People Bike

- Popular Biking routes include:
  - NE 26th Street
  - Wilton Drive
  - Andrews Avenue
  - NE 6th Avenue
  - Dixie Highway
  - NE 25th Street
  - NE 20th Street to NE 21st Court

Fewer Bike Trips

More Bike Trips

Strava Global Heat Map from bike trips recorded from June 2022 - 2023.

Level of Traffic Stress (LTS)

- Measured by:

Number of Travel Lanes
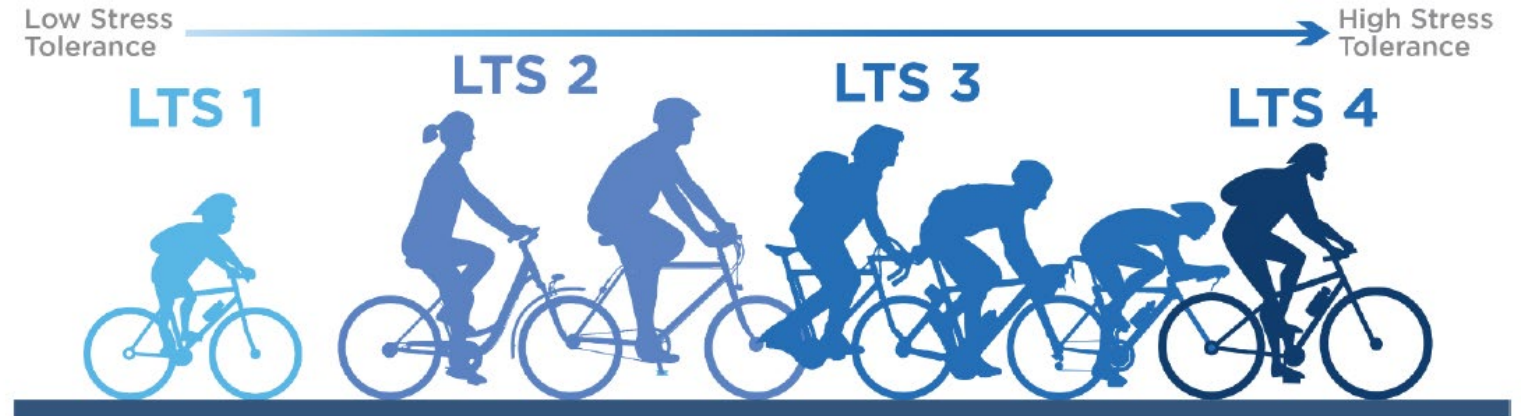
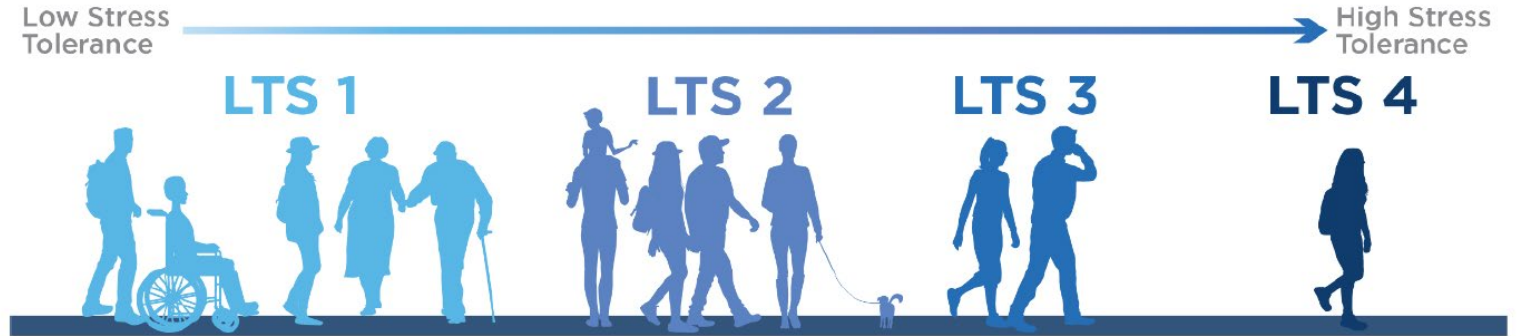**Speed of Traffic**

Number of Vehicles

Presence of Bike or Ped Facilities

Width of Facilities

Separation from Cars

Low Stress Tolerance

High Stress Tolerance

LTS 1

LTS 2

LTS 3

LTS 4

Low Stress Tolerance

High Stress Tolerance

LTS 1

LTS 2

LTS 3

LTS 4
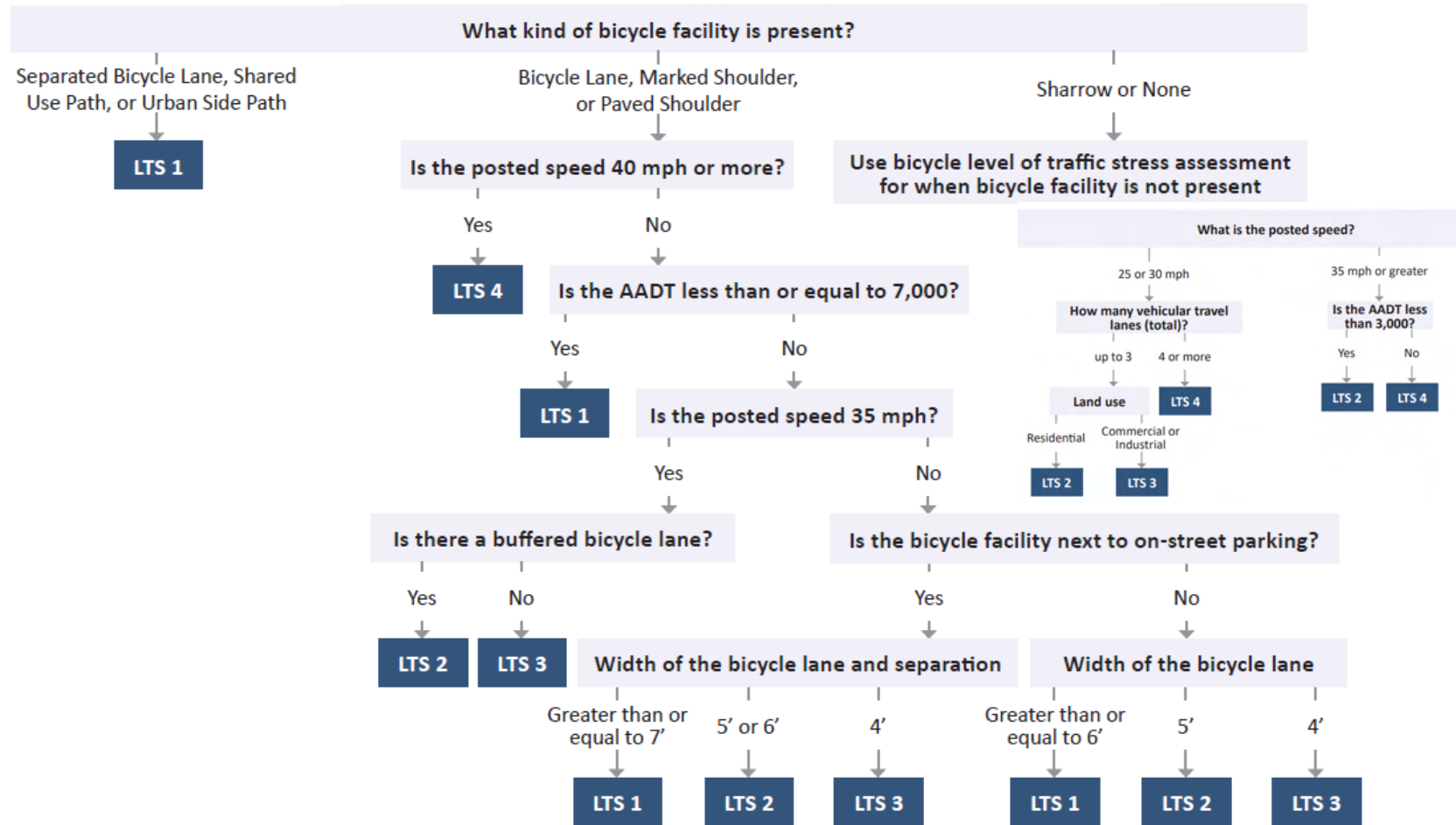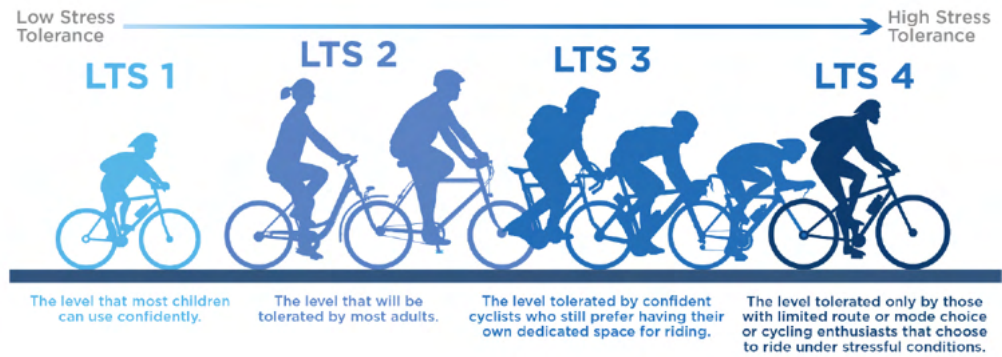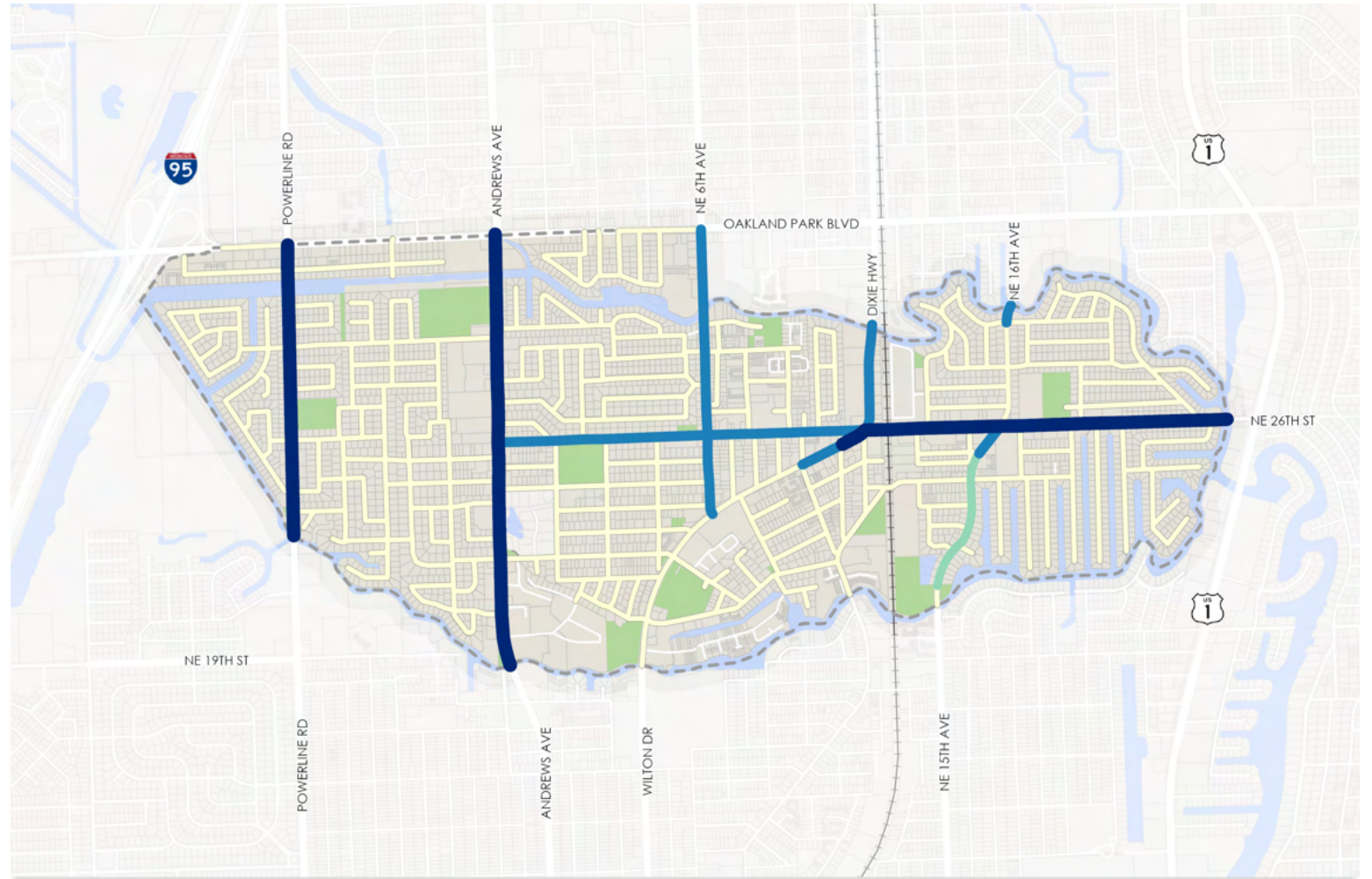
Bike LTS

- This methodology was used for evaluating LTS on FDOT managed roads

Bike LTS

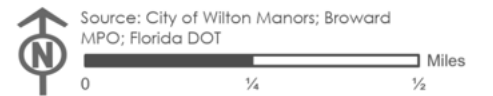- LTS 4 on most major roads due to speeds, volumes, # of lanes, and infrastructure

LEGEND

↦ Florida East Coast Railway

City Park

Wilton Manors Study Area

Bike LTS

■ 4

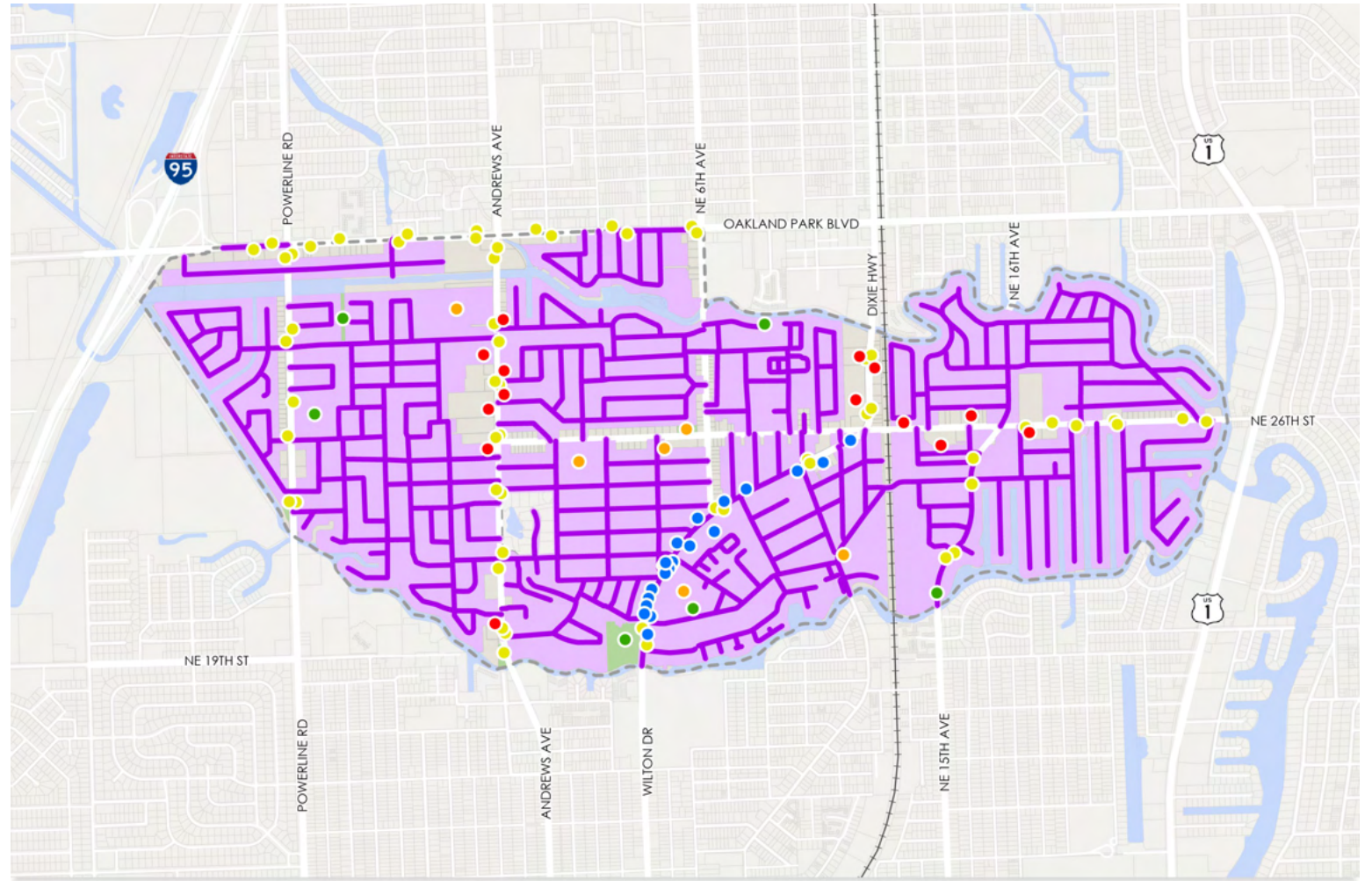■ 3

■ 2

■ 1

Source: City of Wilton Manors; Broward MPO; Florida DOT

Bike Access to Destinations

- Most of Wilton Manors has bike access to at least one destination

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Destinations

● Commercial Cluster
● Community Service
● Living and Entertainment
● Major Park
● Transit Stop

Low Stress Network

Bike Access by Average Cyclist

Source: City of Wilton Manors; Broward MPO; Florida DOT
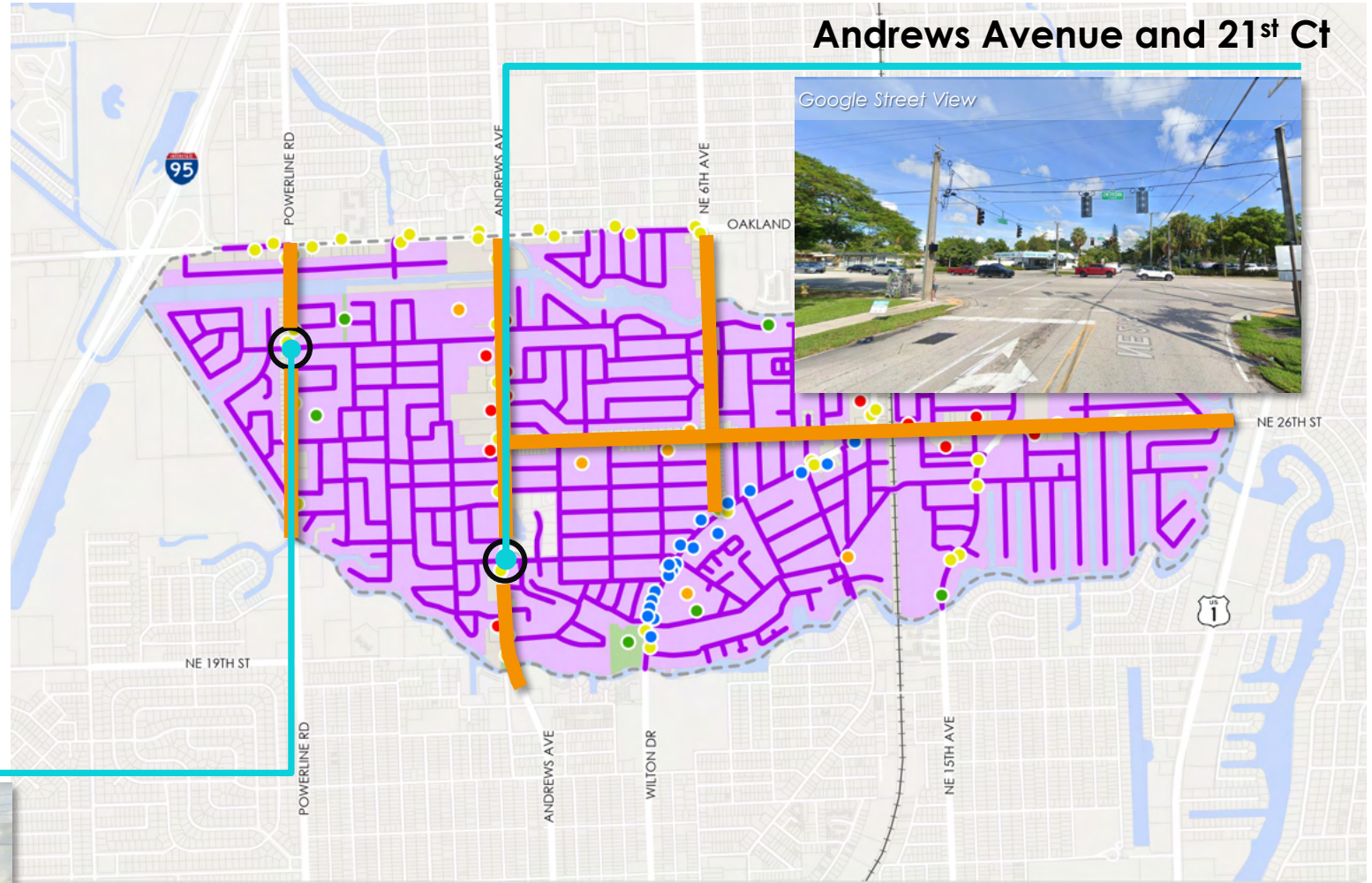
Miles
0   ¼   ½

Limited East-West Bike Crossings

- Only **one** signalized east-west crossing on Powerline Road and Andrews Avenue

- Existing signalized crossings have no dedicated bike signalization or infrastructure

Andrews Avenue and 21st Ct

Powerline Road and 29th St

LEGEND

- ←→ Florida East Coast Railway
- City Park
- Wilton Manors Study Area

Destinations

- 🔴 Commercial Cluster
- 🟠 Community Service
- 🔵 Living and Entertainment
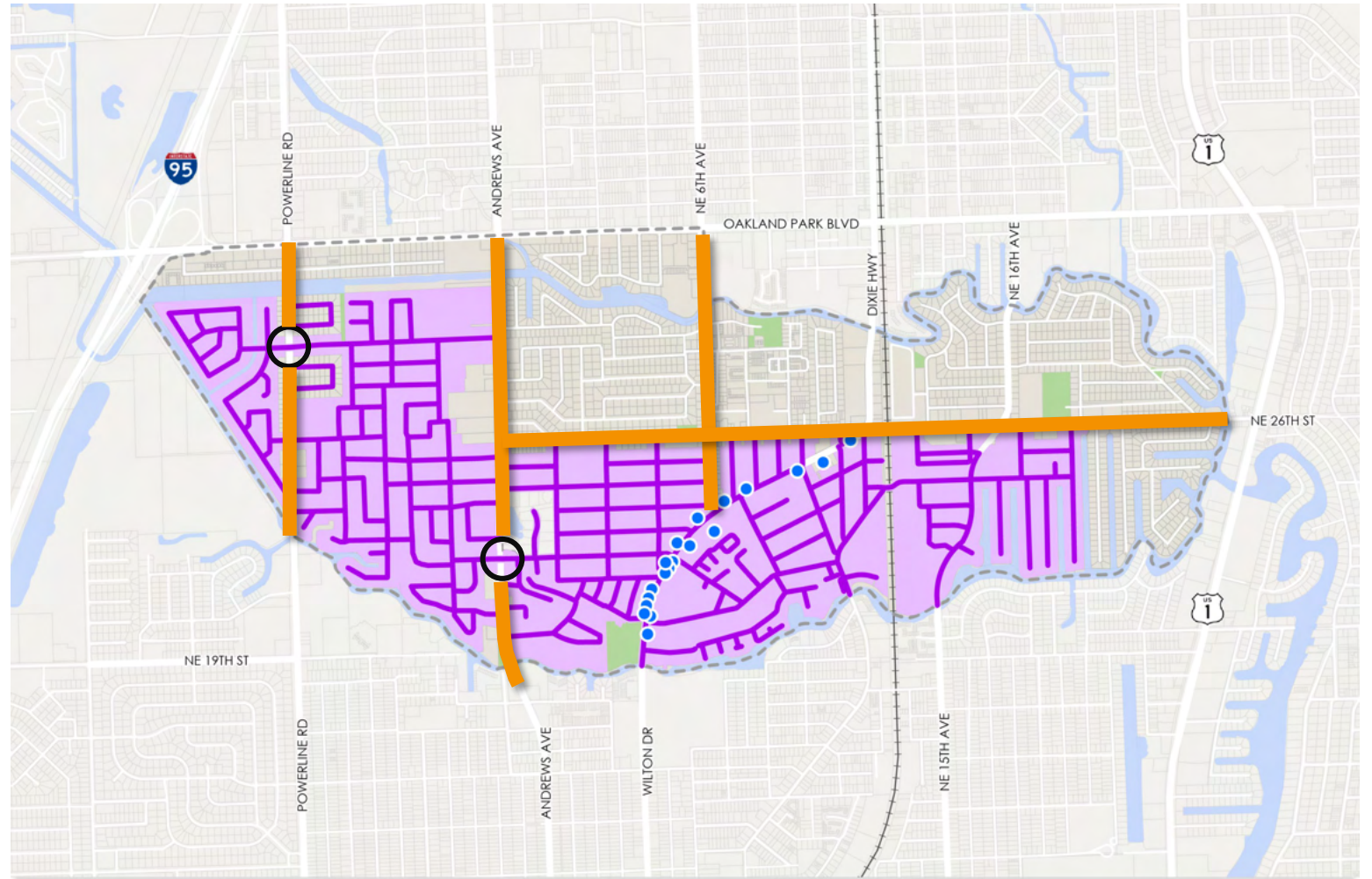- 🟢 Major Park
- 🟡 Transit Stop

- ━━ Low Stress Network
- Bike Access by Average Cyclist
- ━━ High Stress Roadway Acting as Barrier to Access
- ⭕ Signalized Crossing Across High Stress Roadway

Source: City of Wilton Manors; Broward MPO; Florida DOT

0   ¼   ½   Miles

Bike Access Wilton Drive

- Very few direct east-west routes to Wilton Drive

- Northern Wilton Manors has no access to Wilton Drive despite being close

- NE 18th Avenue and eastward do not have access to Wilton Drive

LEGEND

- ⊢—⊣ Florida East Coast Railway
- 🟩 City Park
- ⬚ Wilton Manors Study Area
- 🔵 Wilton Drive Destinations
- ▬ Low Stress Network
- 🟪 Bike Access by Average Cyclist
- 🟧 High Stress Roadway Acting as Barrier to Access
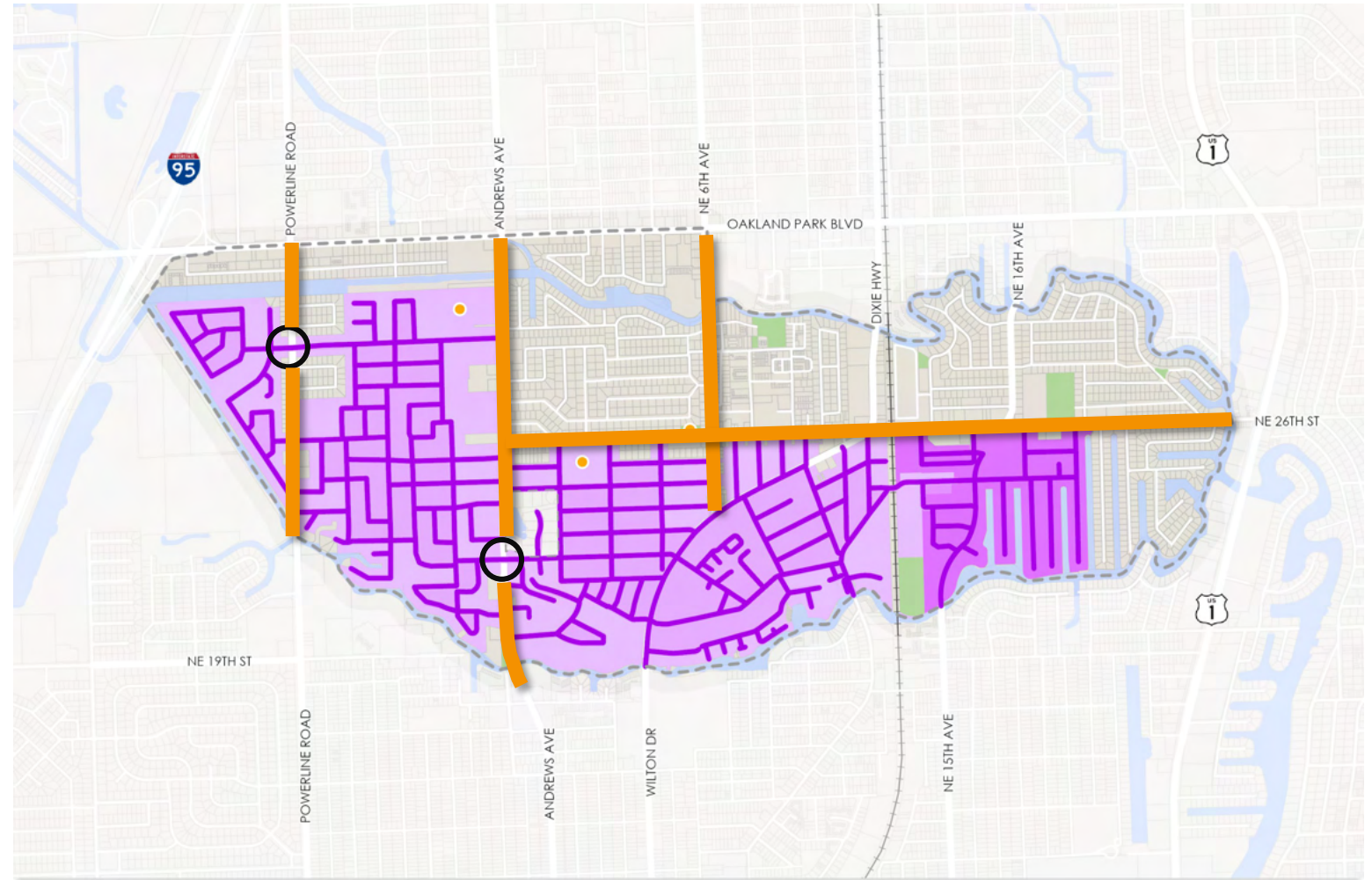- ⭕ Signalized Crossing Across High Stress Roadway
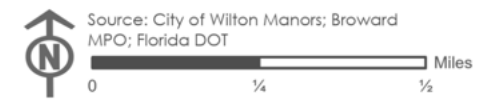
Source: City of Wilton Manors; Broward MPO; Florida DOT

Bike Access to Schools

- Very few direct routes to schools

- Even neighborhoods adjacent to schools cannot access as there is a lack of safe crossing points

- Residents living North of NE 26th Street east of NE 18th Avenue and eastward do not have access to schools by bike

- Residents between the rail line and NE 17th Street would need an eBike or ride faster than the average cyclist to have access to schools

LEGEND

- ↔ Florida East Coast Railway
- City Park
- Wilton Manors Study Area
- ● Schools
- ▬ Low Stress Network
- Bike Access by Average Cyclist
- Bike Access by eBike or Athletic Cyclist
- ▬ High Stress Roadway Acting as Barrier to Access
- ○ Signalized Crossing Across High Stress Roadway
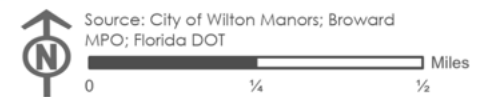
Source: City of Wilton Manors; Broward MPO; Florida DOT

Biking in Wilton Manors

- LTS does not account for gaps that occur in existing bike lanes due to:
  - Obstructions
  - Lack of comfortable crossing opportunities
  - Driveways
  - Approaching and through intersections

Bike lanes are obstructed by parked cars and cars turning right at intersections. Garbage cans are observed frequently blocking both sidewalks and roadways.

Bike riders have been observed using sidewalks when a bike lane is available.

Example of bike riders traveling against traffic which may be due to discomfort in crossing the roadway.

Biking in Wilton Manors

- LTS does not account for gaps that occur in existing bike lanes due to:
  - Obstructions
  - Lack of comfortable crossing opportunities
  - Driveways
  - Approaching and through intersections

People may not feel comfortable riding in exiting bike lanes.

Cyclist using pedestrian infrastructure to cross a road.
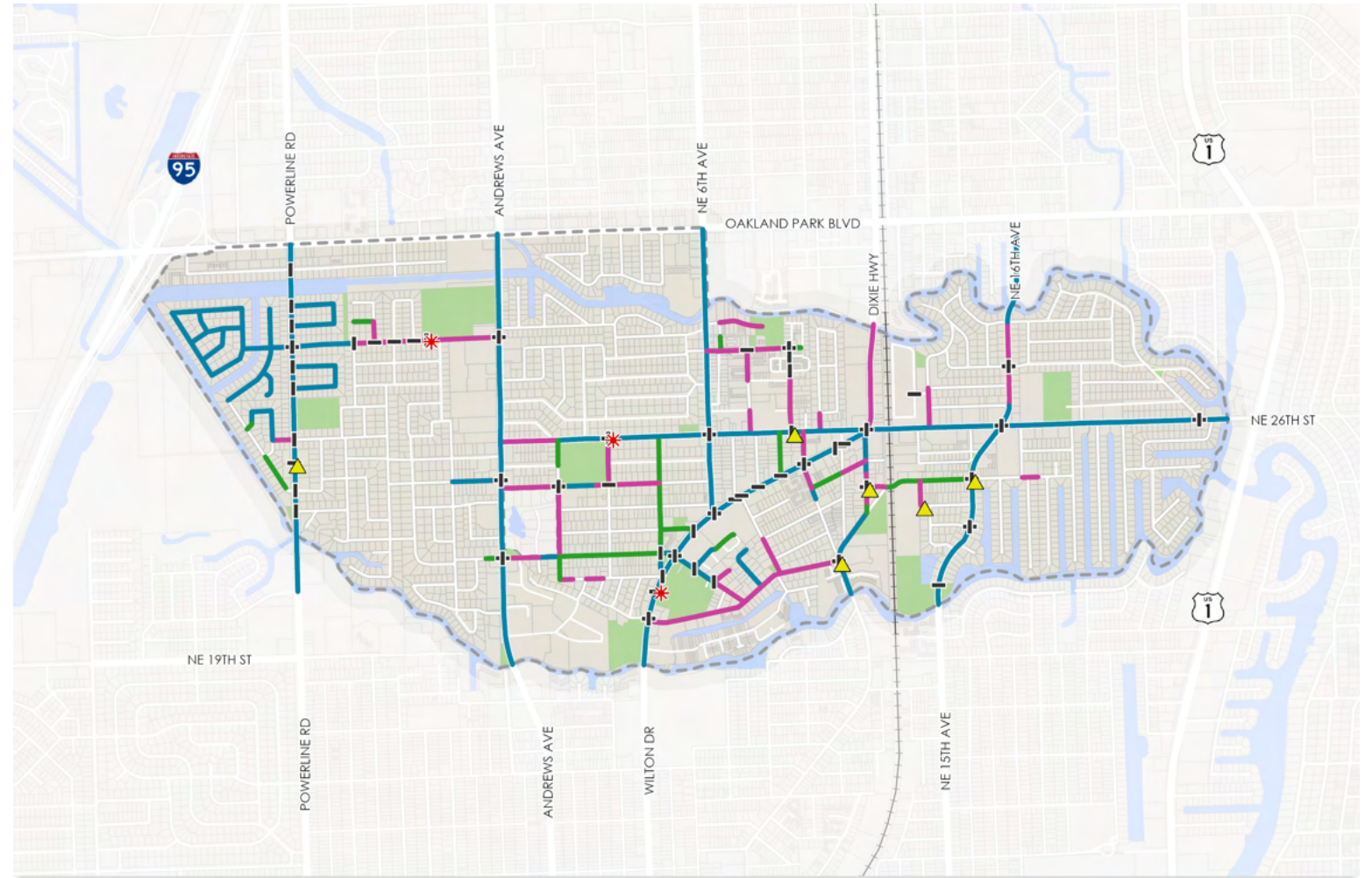

Most people would not feel comfortable sharing the lane with fast moving traffic.

Walking Network

- Sidewalks missing on many streets

- Sidewalks on one side may or may not meet needs

- Crosswalks at major junctions

- City is working to build future sidewalk connects to create a full network

LEGEND

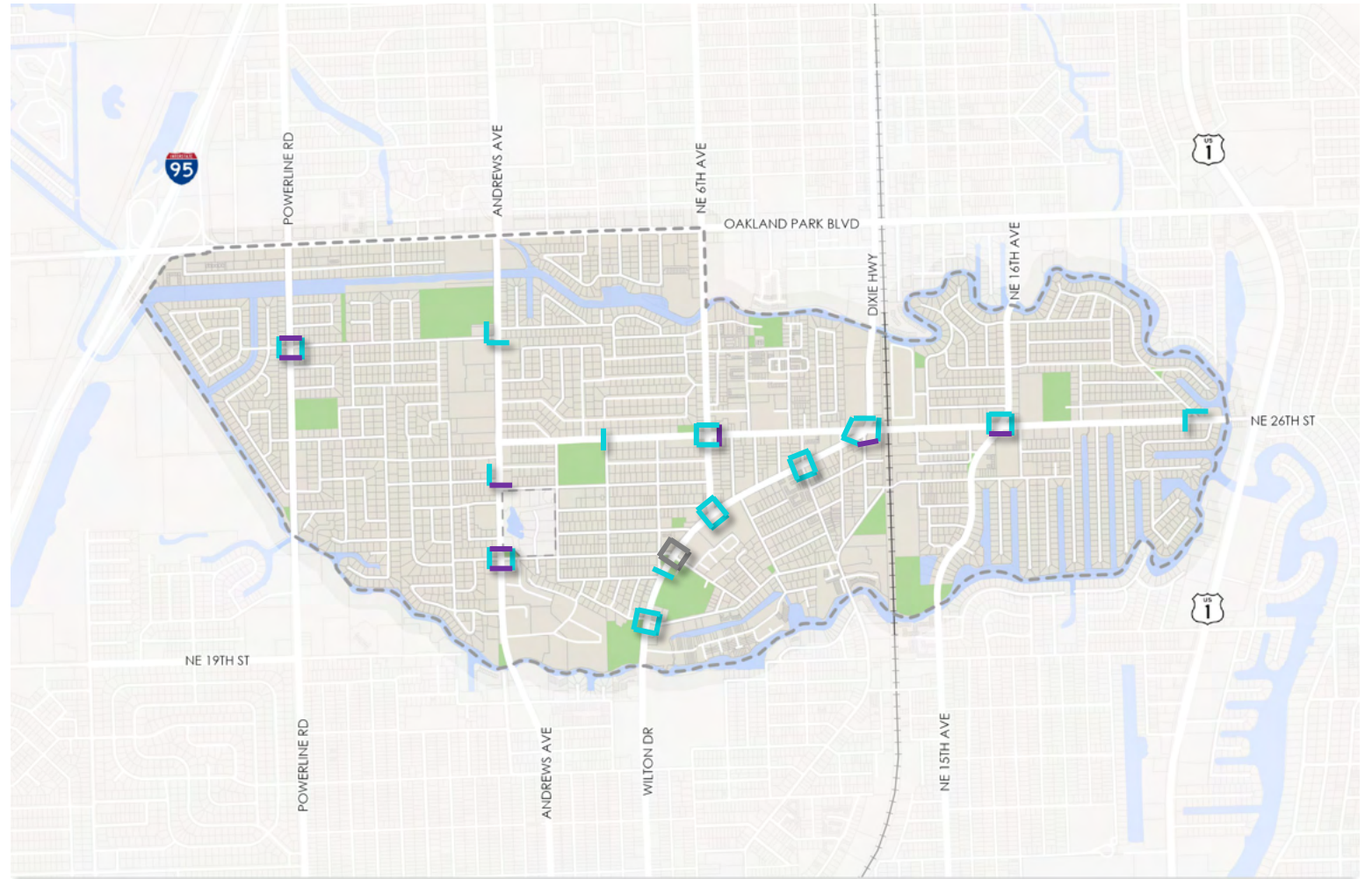| Symbol	Description
┼─┼	Florida East Coast Railway
(green)	City Park
[dashed box]	Wilton Manors Study Area
▮	North-South Crosswalk
▬	East-West Crosswalk
(green line)	East or South Sidewalk Only
(magenta line)	West or North Sidewalk Only
(blue line)	Sidewalks on Both Sides
✳	Pedestrian Signal
▲	RRFB

Source: City of Wilton Manors; Broward MPO; Florida DOT

Miles 0 ¼ ½

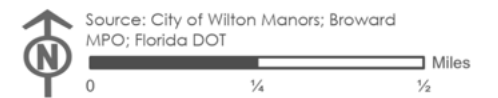# Crossing with a Mobility Device

- According to the FHWA someone with a mobility device travels at 3.5 ft/s

- Someone with a mobility device would not be able to cross Powerline Road nor Andrews Avenue within the pedestrian phase allotted

Note: This analysis was only conducted for full traffic signals; RRFBs are not considered

LEGEND

- Florida East Coast Railway
- City Park
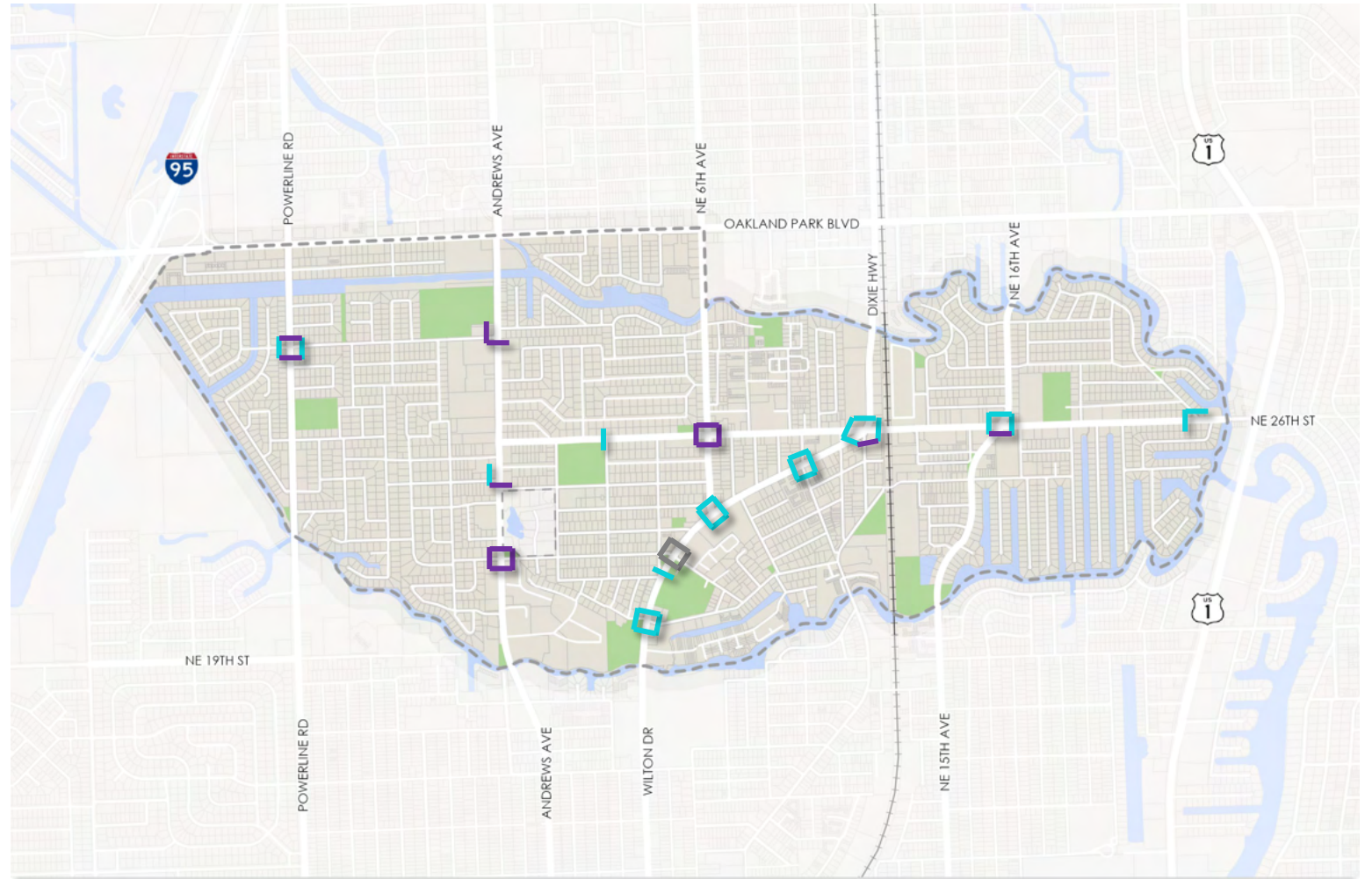- Wilton Manors Study Area

- Pedestrian phase does not provide enough time to cross at 3.5 ft/s
- Pedestrian provides enough time to cross at 3.5 ft/s
- TBD – Information not yet available

Source: City of Wilton Manors; Broward MPO; Florida DOT

Crossing as an Elderly Person

- According to the FHWA someone with a mobility device travels at 2.8 ft/s

- An elderly person would not be able to cross Powerline Road nor Andrews Avenue within the pedestrian phase allotted

Note: This analysis was only conducted for full traffic signals; RRFBs are not considered

LEGEND

⊢—⊣ Florida East Coast Railway

▭ City Park

▢ Wilton Manors Study Area

— Pedestrian phase does not provide enough time to cross at 3.5 ft/s

— Pedestrian provides enough time to cross at 3.5 ft/s

— TBD – Information not yet available

Source: City of Wilton Manors; Broward MPO; Florida DOT

0   ¼   ½   Miles

Where People Walk or Jog

Popular walking or jogging routes include:

- Dixie Highway south of NE 26th Street

- NE 9th Street, NE 7th Avenue, between Wilton drive and NE 20th Street

- NE 26th Street between Andrews Avenue and Dixie Highway

- From NW 21st Court to NW 22nd Street, to NW 7th Avenue, to either NW 24th Street or up to NW 8th Avenue and to Mickel Park

- NW 3rd Avenue, NW 29th street, NW 9th Terrace, NE 6th Avenue, NE 21st Court, NE 20th Street, and around Jenda Isle among others.
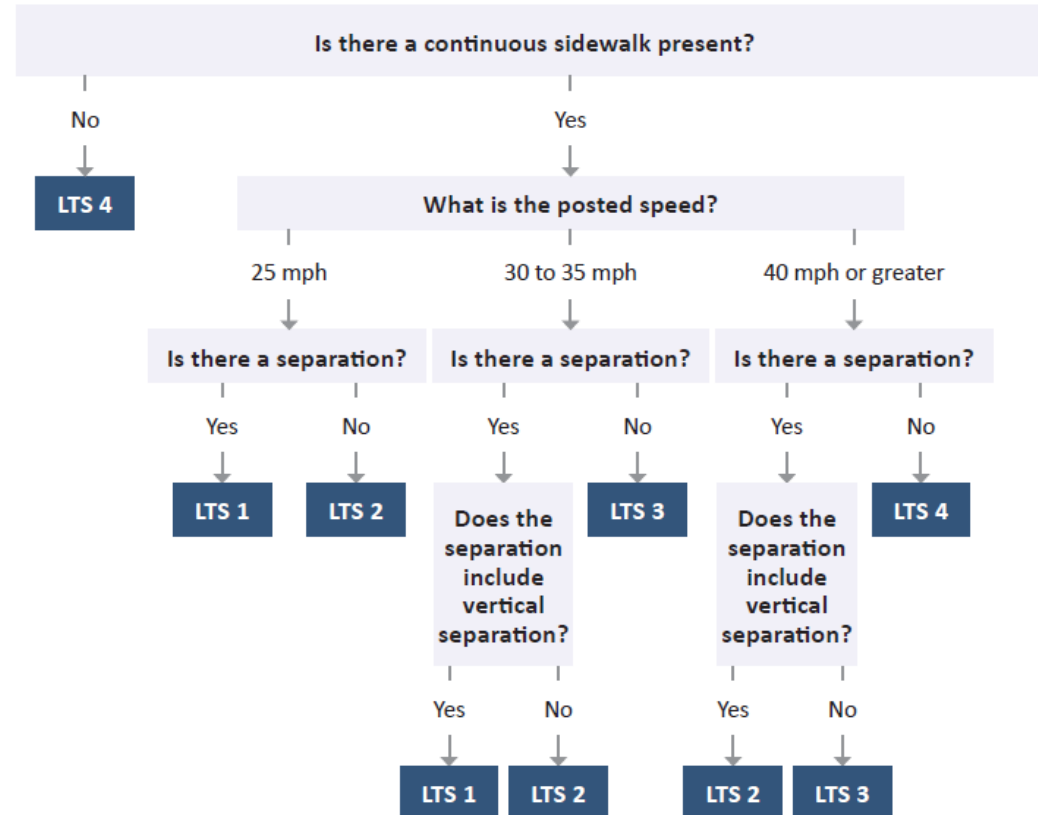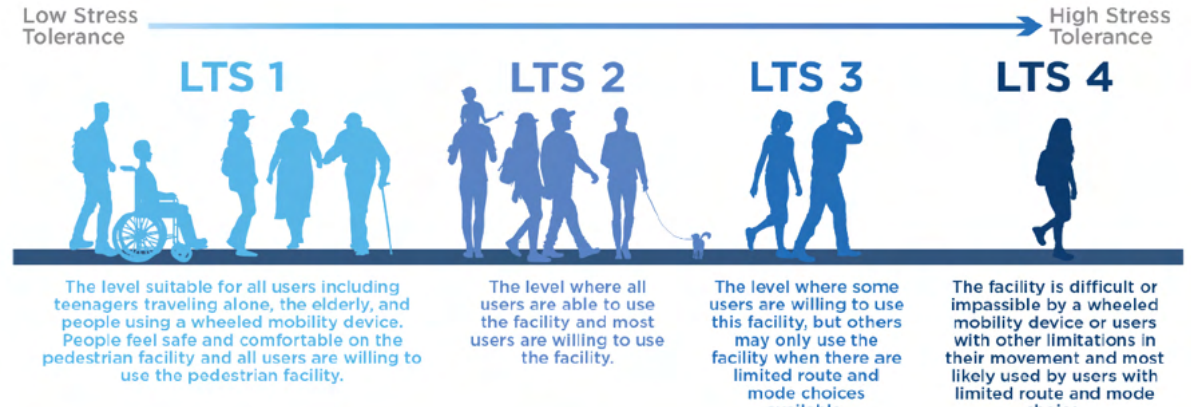

Strava Global Heat Map from walking or jogging trips recorded from June 2022 - 2023.
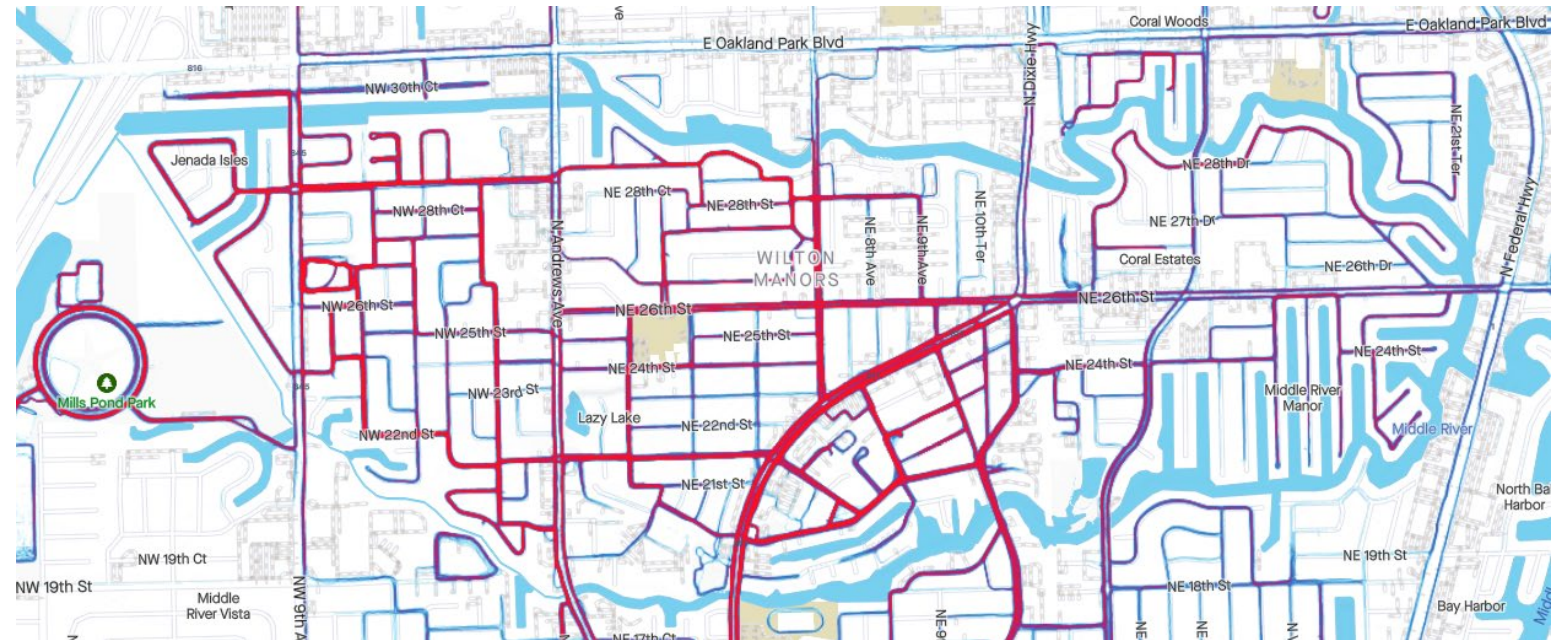
Fewer Walking or Jogging Trips
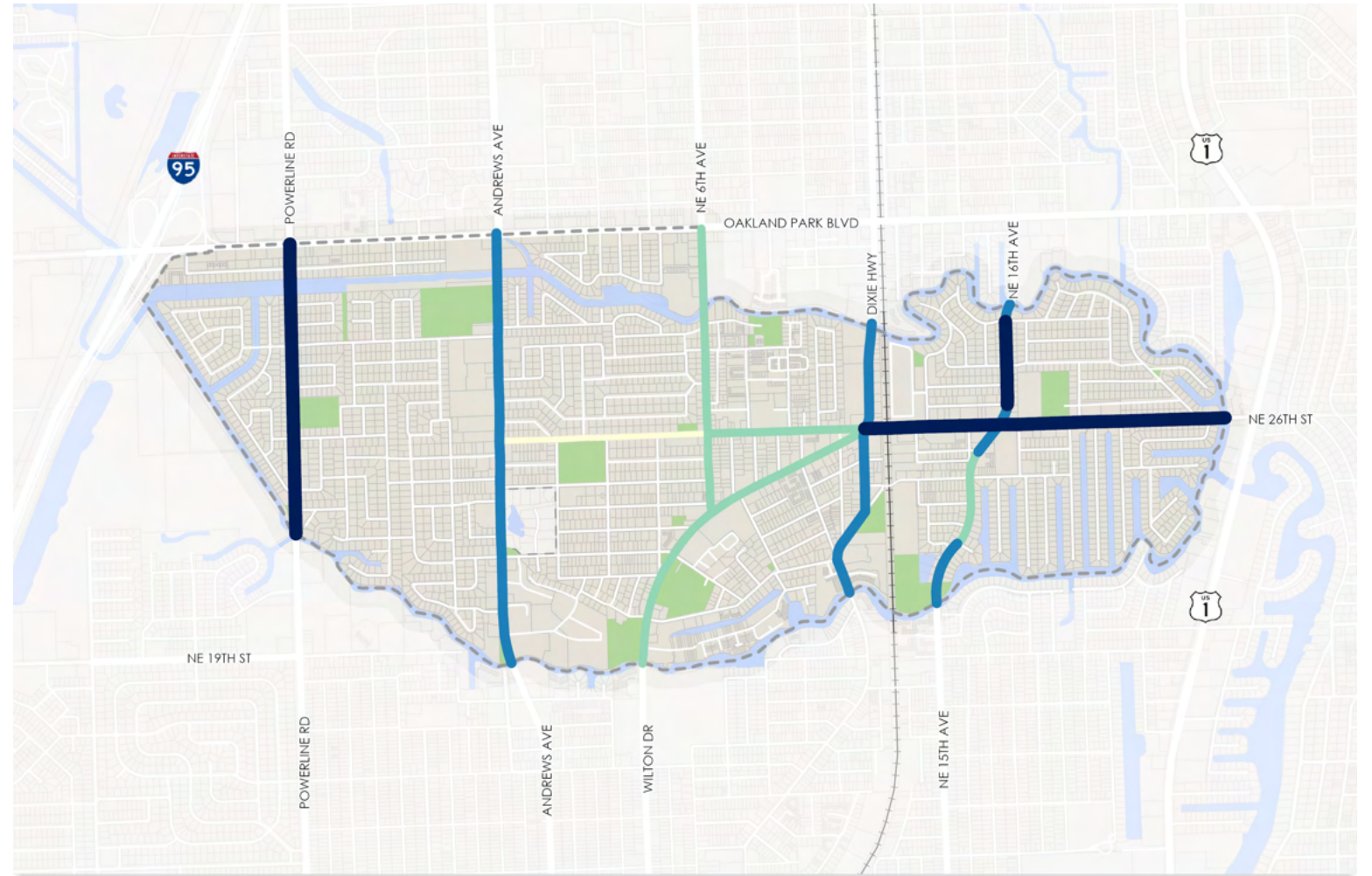
More Walking or Jogging Trips

Pedestrian LTS

Pedestrian LTS

- Local streets not analyzed; low speeds and volumes may create comfortable conditions for people to walk on street

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Pedestrian LTS
- 4
- 3
- 2
- 1

Source: City of Wilton Manors; Broward MPO; Florida DOT

Walking on Local Streets

- Local streets are generally narrow—many with traffic calming treatments—that make walking inviting to residents

- Lack of formalized sidewalks may still limit accessibility for some residents

Person walking along 3rd St

Person walking dogs along 21st St


Person walking along 20th St

Walking on Wilton Drive

- Sidewalks along Wilton Drive act as a public gathering space in addition to facilitating walking

- Sidewalks become crowded at times

- Pedestrian crossings are not frequent enough to meet the demands of people and to service the surrounding street context

- Drivers are entering into crosswalks before it is safe to proceed creating conflicts between pedestrians and vehicles

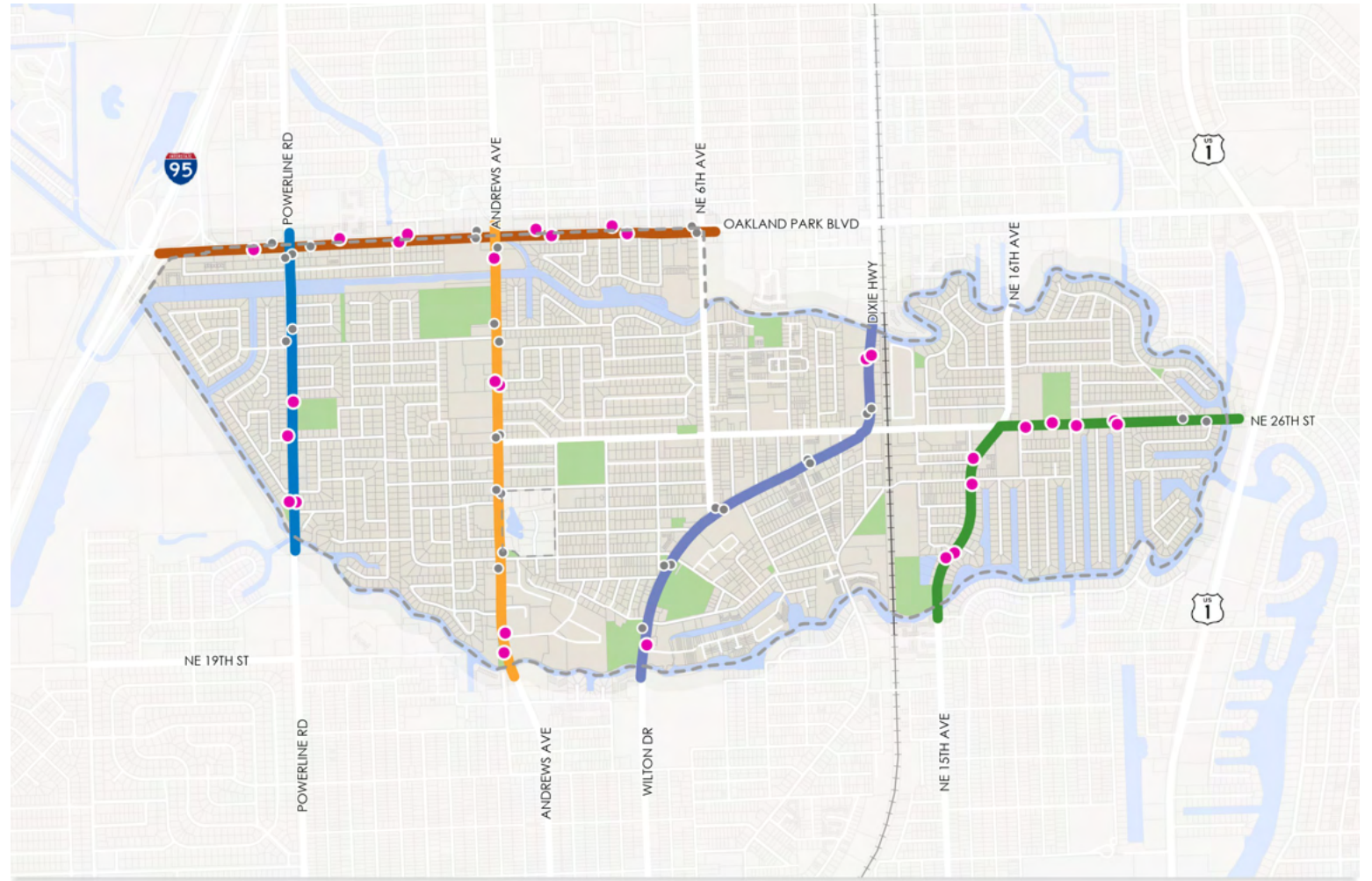Wilton Drive at 7th Avenue being used as a public gathering space
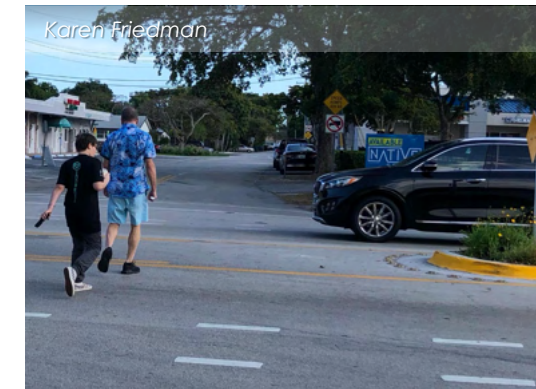
Examples of people crossing Wilton Drive outside of marked crosswalks

Cars stopped in crosswalks along Wilton Drive

Transit Network

- Many stops do not have a signalized pedestrian crossing nearby

- No direct east-west transit connection from east Wilton Manors to west Wilton Manors

LEGEND

Florida East Coast Railway

City Park

Wilton Manors Study Area

Broward County Transit Line
- 14
- 20
- 50
- 60
- 70

Transit Stops
- Stop within 250 ft of Signalized Crossing
- Stop with No Signalized Crossing within 250 ft

Source: City of Wilton Manors; Broward MPO; Florida DOT