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MMTP Phase 2 Mid / Long-term Improvements

Meeting with Broward County

October 4, 2022

Meeting Agenda

- Overall Status of MMTP
- Mid / Long-term Improvements
 - City Goals
 - Selected Roadways
- Needs Assessment for County locations: Cleary Blvd
 - Preliminary Long-term Vision for Cleary Blvd
- Needs Assessment for County locations: University Dr
 - Preliminary Long-term Vision for University Dr
- Next Steps

Meeting Goal:

- ✓ Provide MMTP status to County Staff
- ✓ Discuss County-owned facilities
- Understand County perspective and concerns





Aug. 21

Current Status

High-Level Needs Assessment



Short-term Improvements



Technical Memo #1



Nitro of Discounting Manager and Manager Transportation Discounting Discounting Manager

Chapter 1: Introduction

The City of Plantation, like much of Southeast Florida, faces a growing population and opportunities for redevelopment in the coming decades. A strong multimodal transportation plan, which plans for improvements for all roadway users including pedestrians, bicyclists, transit riders, and automobiles, is needed to support growth, while managing access and safety.

The City of Plantation's Multimodal Master Transportation Plan ("MMTP") identifies recommendations to improve overall roadway safety, as well as specific improvements for pedestrians, bicyclists, and transit users. The development of the MMTP was informed by the Plan Themes: Midtown Connectivity, Safety, and Traffic Calming.

Purpose:

The Multimodal Master Transportation Plan will address the City's current and future multimodal transportation needs by developing strategies to comprehensively improve safety, and increase multimodal connectivity. The MMTP is consistent with City of Planation priorities of reducing congestion, fostering economic vibrancy, while addressing environmental concerns and sustainability Notably, the MMTP is intended to guide and prioritize effective transportation investments or growing multimodal city, while maintaining the "nometour" feel of the City of Planation.

Multimodal Transportation

The availability of transportation options using different methods within a system or corridor. Examples of these methods include biking,

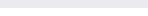


Strategy:

The MMTP planning effort consists of two separate assessments, each with its own technical memo.

- 1. High-Level Multimodal Needs Assessment and Identification of Short-term Improvements
- Needs Assessment & Identification of Mid- and Long-Term Improvements.

High-Level Multimodal Needs Assessment Analysis of existing plans, city data, crash statistics, and field visits in order to develop a list of current needs for the multimodal transportation system.



This Technical Memorandum presents the results of the high-level multimodal needs assessment and the recommended improvements that can be accomplished in the short-term (up to five years). The Technical Memorandum is organized as follows:

Technical Memorandum #1: Short-term Improvements

- · Chapter 2: Project Approach
- · Chapter 3: Methodology
- Chapter 4: Focus Roadways
- Chapter 5: Recommendations
- · Chapter 6: Cost Estimates and Funding Opportunities



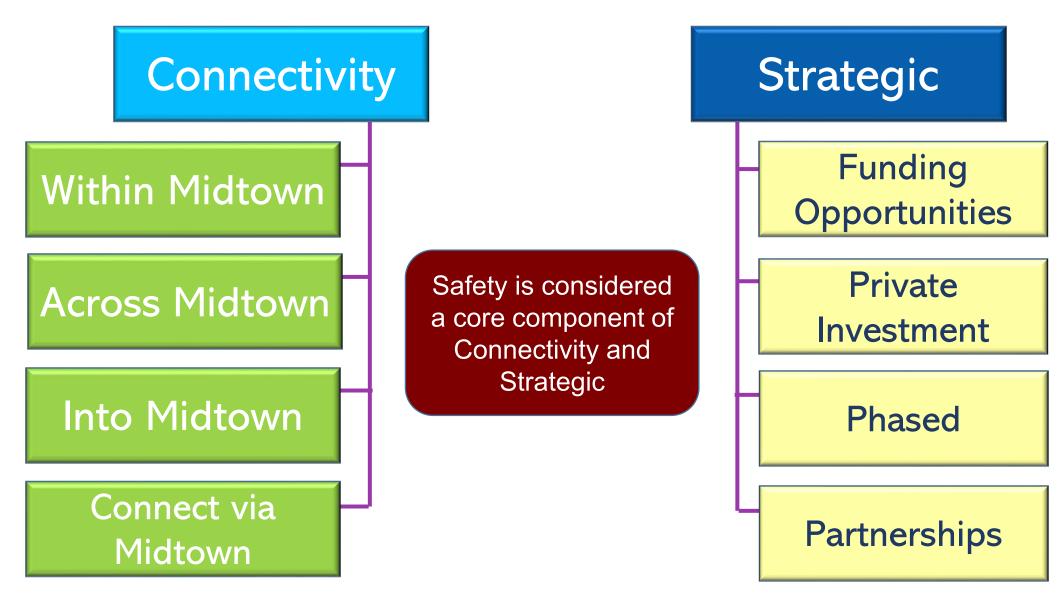
Needs Assessment

Here!!

Mid- and Long-term Improvements

Technical Memo #2

Mid / Long-term Improvements: Plan Themes



Mid / Long-term Improvements: Project Locations

Cleary Blvd, from University Dr to Hiatus Rd Greenway

County-Owned = Hiatus Rd & Pine Island Rd

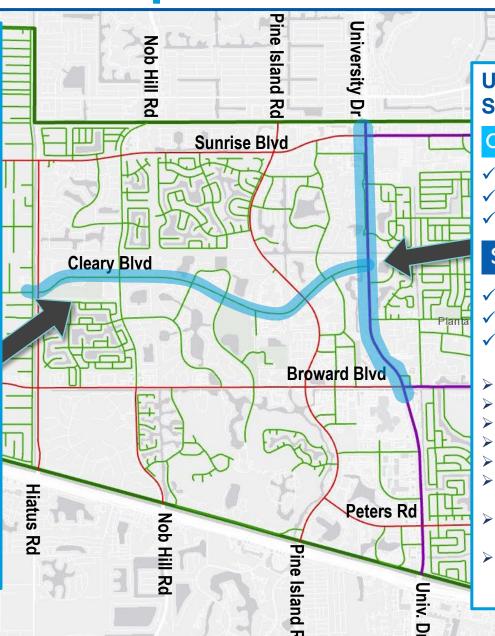
State-Owned = University Dr

Connectivity

- ✓ Into Midtown
- ✓ Connect via Midtown

Strategic

- ✓ Funding Opportunities
- ✓ Private Investment
- ✓ Partnerships
- Adjacent to several community facilities, senior community, & public school.
- An entire Corridor
- County Surtax projects for Pine Island Rd and Hiatus Rd
- Community Support
- Most of roadway is under full City control
- Great opportunity for east-west connectivity



University Dr, from Broward Blvd to Sunrise Blvd State-Owned

Connectivity

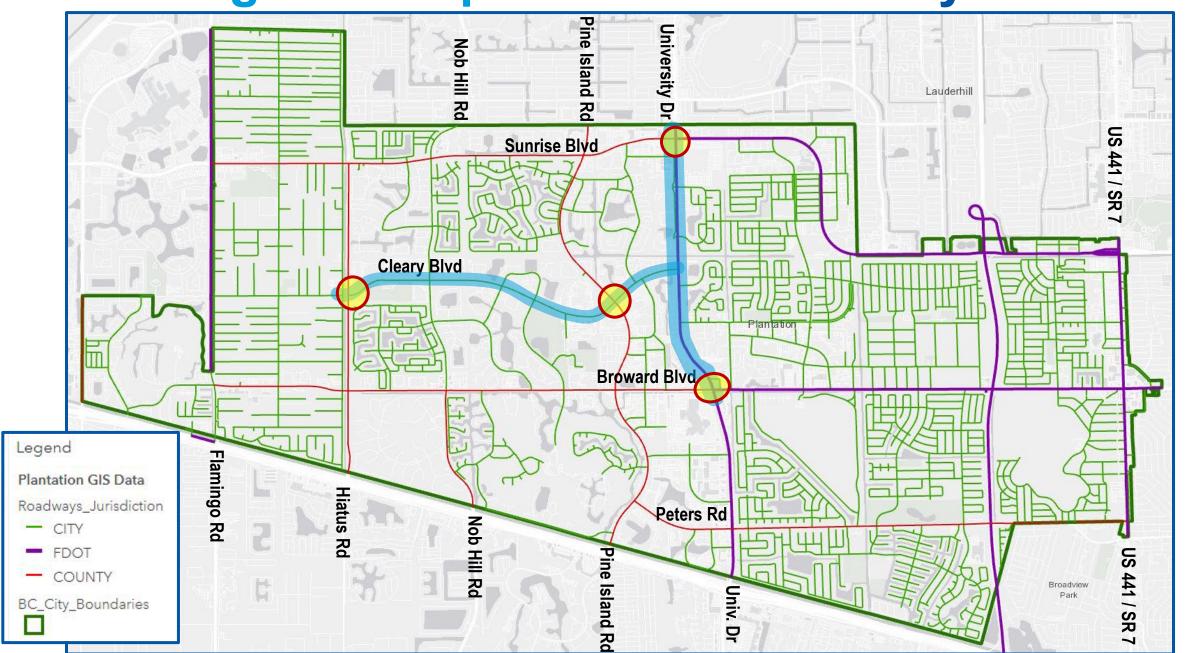
- ✓ Across Midtown
- ✓ Into Midtown
- ✓ Connect via Midtown

Strategic

- Funding Opportunities
- Private Investment
- ✓ Partnerships
- State-owned facility
- Several high-volume, high-crash intersections
- BCT PREMO / Future Premium Transit
- > Adjacent to Midtown and other redevelopment areas
- Safety hot spots
- Opportunity for pedestrian bridge at University and Broward
- FDOT has already identified University and Sunrise as needing improvements
- Opportunity to work with City of Sunrise on portion north of city limits

BC_City_Boundaries

Mid / Long-term Improvements: County Locations



Cleary Blvd

University Drive to Hiatus Rd / C-42 Canal Trail ● 106 ft ROW ● Broward County Trafficways = 106 ft Arterial ● 2.8 miles ● 40 MPH ● BCT Routes 88 (Pine Island Rd), 2 and 81 (University Dr) ● LOS C



Cleary BI: Hiatus Rd = County <u>Owned</u>

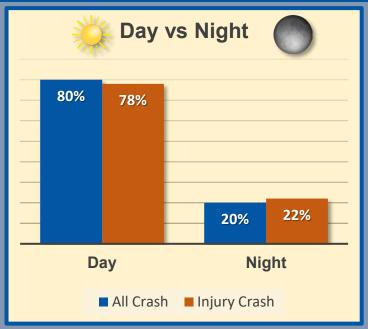


Observations		
1	No sidewalk on west side of Hiatus Rd	
2	No crosswalk on northern leg	
3	Conventional crosswalk	
4	No sidewalk on southern leg	
5	No sidewalk in southern ROW of Cleary Blvd; all pedestrians must use crosswalk to access sidewalk in northern ROW	
6	Sidewalk in Sunset Park is located behind park fence (no pedestrian access)	
7	3-ft wide bike lane (not separated / not protected)	
8	No street / pedestrian lighting	
9	5 ft wide sidewalk located at curb	
	Speeding!	

Cleary Blvd & Hiatus Rd - Crash Stats & Trends

Signal 4, 2015 to 2021, 150 ft from Intersection

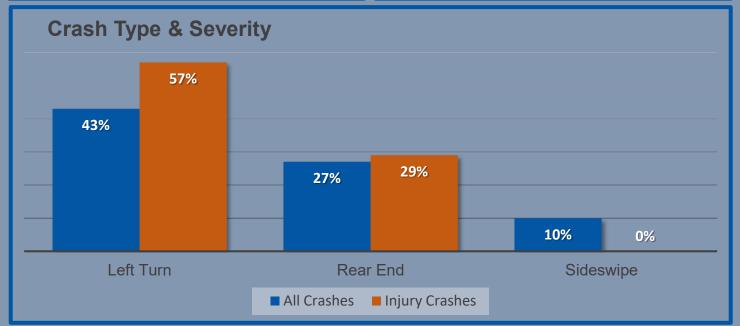


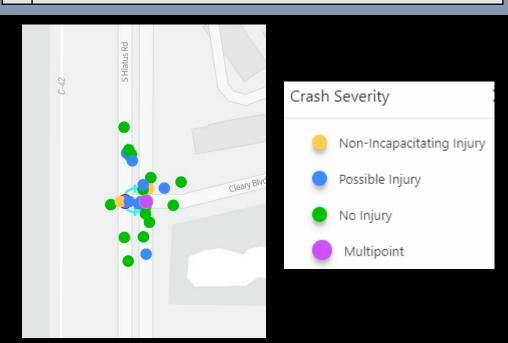






- 1 8 Injury crashes occurred from SB to EB LT Crashes
- July 2019 7pm Bicyclist riding in crosswalk struck by NB RT vehicle who failed to yield at red light

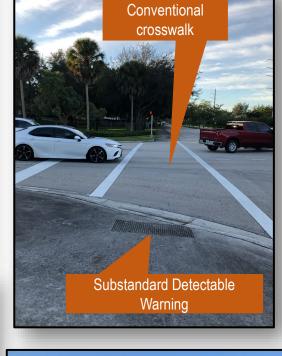




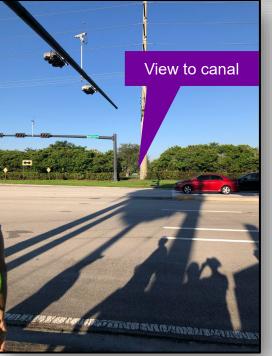
Cleary BI: Hiatus Rd – 9/23/2022















Cleary BI: Pine Island Rd = County <u>Owned</u>

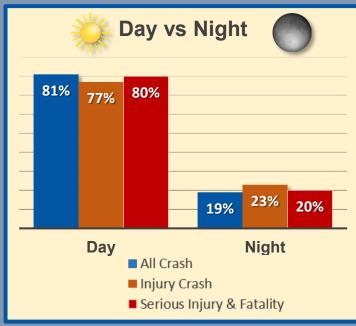


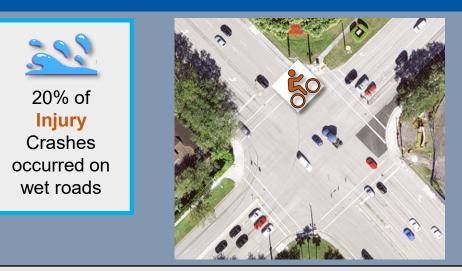
Observations		
1	Two pedestrian signals (mis- marked)	
2	All crosswalks have conventional markings	
3	Western crosswalk is located outside of SB drivers' visibility	
4	Poor visibility of SB traffic from EB to SB right turn lane	
5	Insufficient time to cross roadway	
Several pedestrians observed during mid-morning visit		
Jaywalking observed south of intersection		
No bike paths on Cleary Blvd		

Cleary Blvd & Pine Island Rd - Crash Stats & Trends

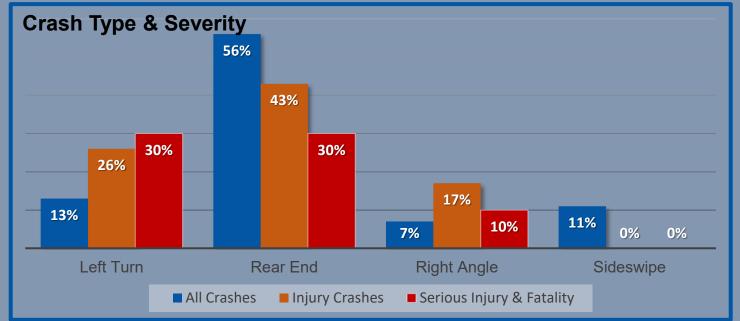
Signal 4, 2015 to 2021, 150 ft from Intersection

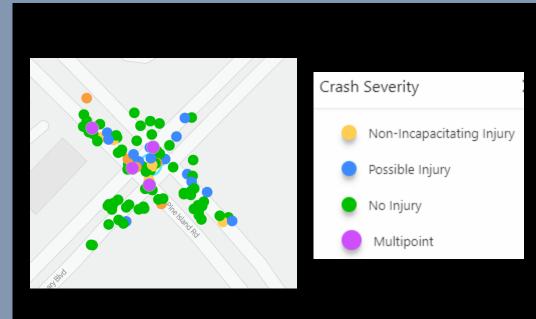




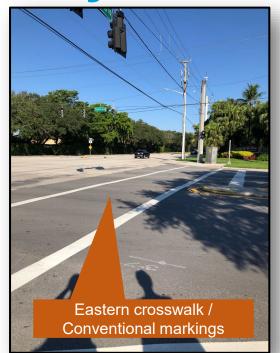


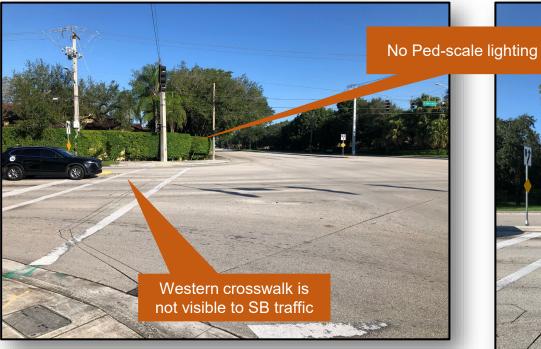
Nov 2018 • 4 pm • Driver failed to yield to bicyclist • After crash the CSA inspected crosswalk signs and the signs were stuck on red hand for the east / west crossing on northern crosswalk





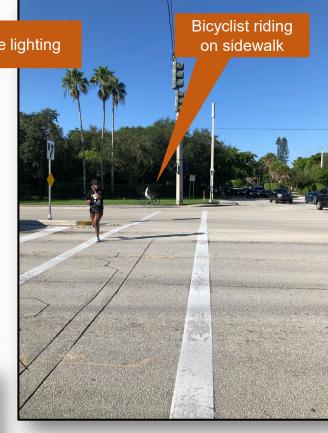
Cleary BI: Pine Island Rd – 9/23/2022



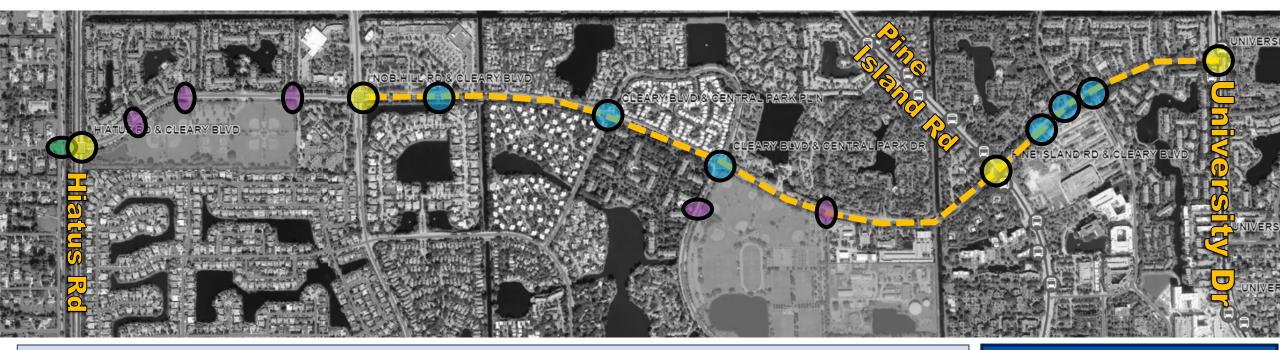








Cleary BI: Preliminary Long-term Vision



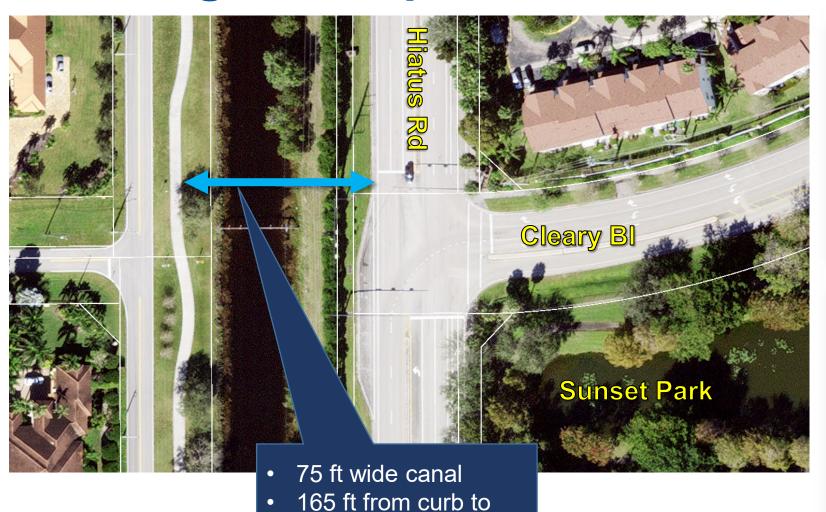
- Pedestrian Bridge over canal
- O Intersection Improvements to improve safety for all roadway users
- Mid-block crosswalk (access to City Parks)
- Roundabout: Including crosswalk, Ped Scale Lighting
- Lane Repurposing: Road Diet, lower speed limit, widen sidewalk, separated & protected bike facility

County Projects:

- <u>Canal Greenway:</u> Controlled Crossing at Sunrise Blvd (2028)
- <u>Hiatus Rd Lighting Surtax</u>
 <u>project (L17):</u> from Broward

 Blvd to Sunrise Blvd Design to begin soon
- Pine Island Rd Improvements:
 Mast Arm Conversion (year
 2045), Adaptive Traffic Signal
 Technology Design to begin soon

Cleary Bl @ Hiatus Rd Canal: Pedestrian Bridge Examples



sidewalk



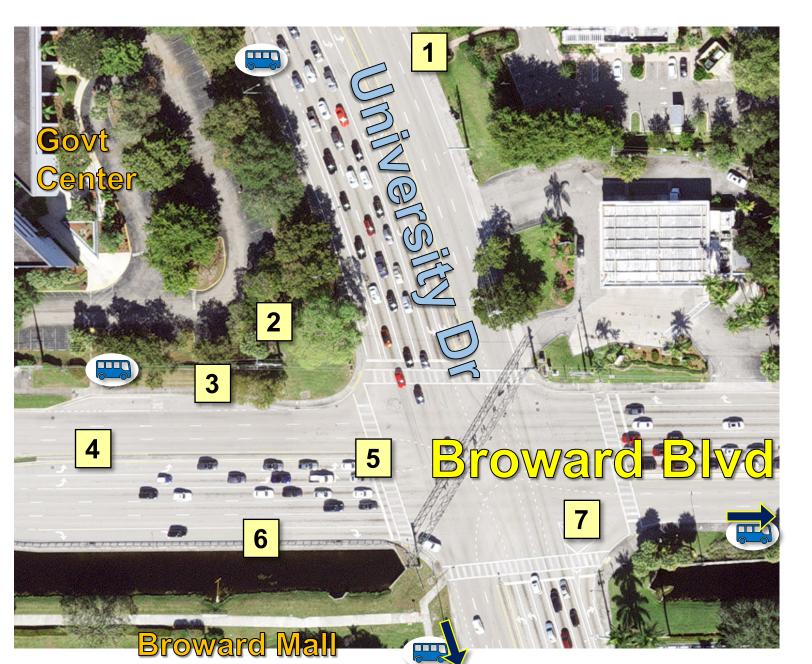


N. University Dr

Broward Blvd to Northern City Limits ● 120 ft ROW ● Broward County Trafficways = 200 ft Arterial ● 2.1 miles ● 6 travel lanes ● 45 MPH ● BCT Routes 2 and 81 (22 and 36) ● LOS C

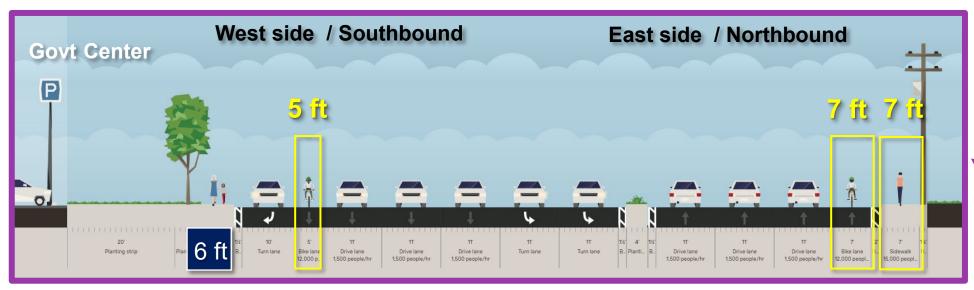


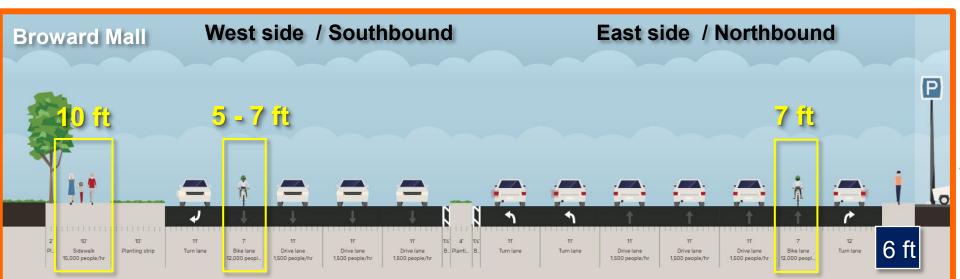
University Dr: Broward BI = County owns roadway west of intersection



Observations		
1	Jaywalking adjacent to BCT Bus Stop and to Pollo Tropical	
2	Well-worn path in areas adjacent to hedges	
3	Bicyclists seen primarily riding on sidewalks (no bike path on Broward Blvd)	
4	Jaywalking west of intersection from BCT stop on Broward Blvd to BCT stop on S. University Dr	
5	All pedestrians crossing north / south observed in western crosswalk	
6	No sidewalk on southside of Broward Blvd (only on Greenway)	
7	NB / EB right turn continuous flow	
BCT Bus Stop locations are set back from intersection and appear to be the destination for many jay walkers		

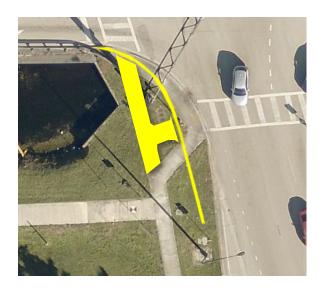
FDOT Improvements to University Drive





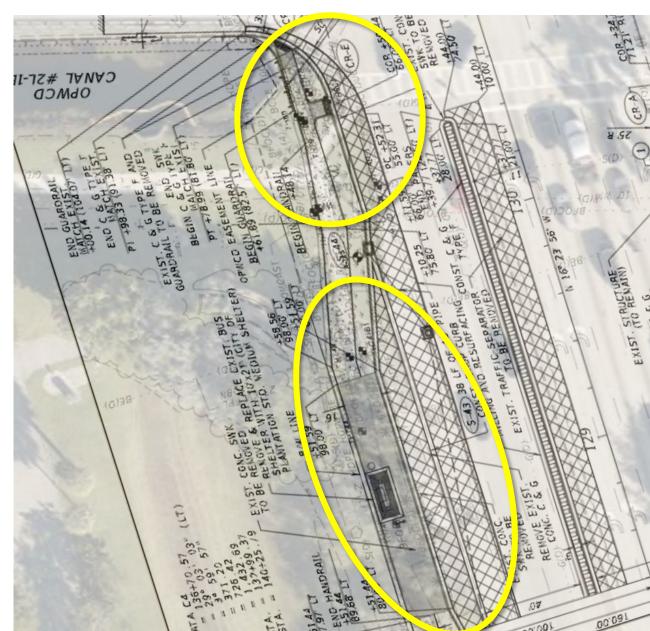


FDOT Improvements to University Drive



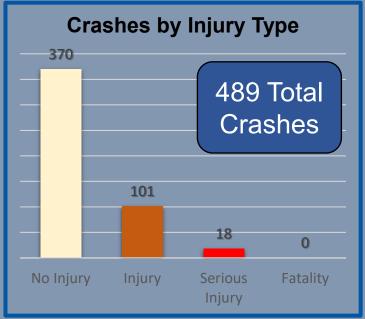
Most significant changes:

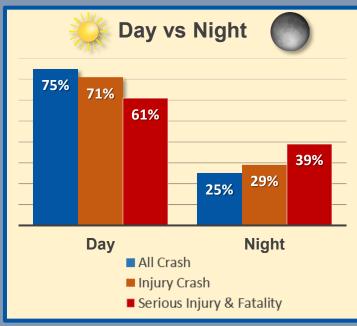
- Southwestern corner roadway widened
- Raised median is shifting approx. 3 feet west
- New / realigned sidewalk leading to corner curb
- Bus bay shifts approx. 10 feet west
- Sidewalk expands to 10 ft wide

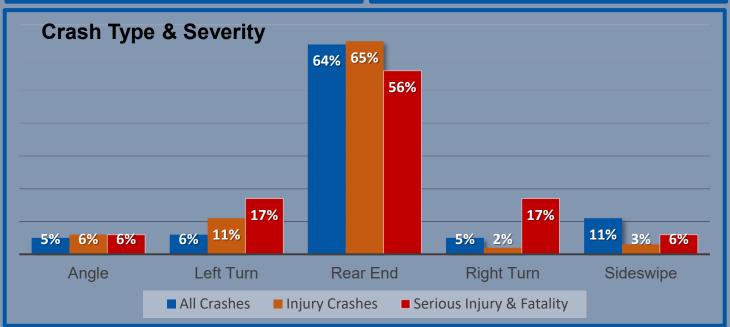


University Dr & Broward BI - Crash Stats & Trends

Signal 4, 2015 to 2021, 150 ft from Intersection

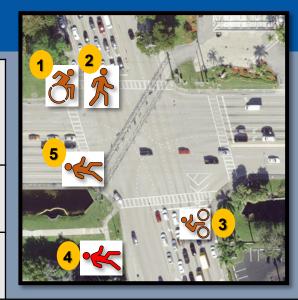




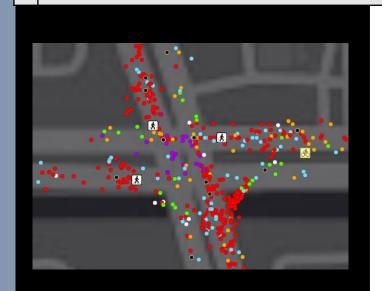


- Injury Motorized Wheelchair Dec 2016 1 pm Driver fault WB RT driver failed to yield at red light and struck wheelchair in crosswalk
- Injury June 2019 6 pm In crosswalk Unknown fault •

 WB RT driver struck pedestrian
- No Injury Jan 2016• 11 pm •
 Bicyclist fault Rode in bike lane through red light



- Serious Injury Ped @ BCT Stop Aug 2020 1 pm SB <u>RT</u> driver ran off road and struck BCT Shelter
- Injury Dec 2018 7:30 am Driver fault SB RT driver struck pedestrians in crosswalk



- Rear End
- Sideswipe
- Angle
- Left Turn
- Right Turn
- Off Road



Bicycle



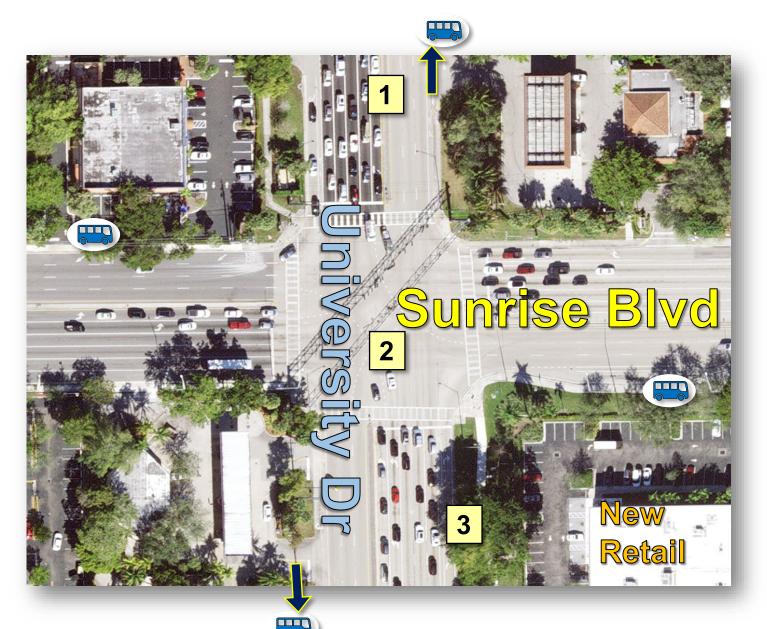
Pedestrian

Other

University Dr: Broward Blvd - 9/20 & 30/2022



University Dr: Sunrise BI = County <u>Owns</u> roadway west of intersection



Observations		
1	Traffic congestion heading north	
2	No U-turns permitted	
3	No pedestrian access into retail area / pedestrians walk through landscaping	

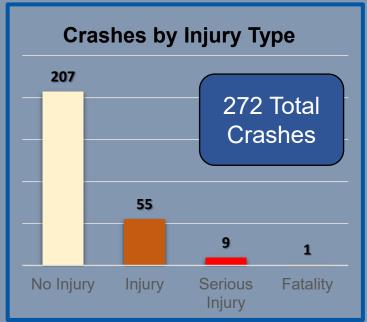
MANY pedestrians and transit riders observed during morning visit (in western crosswalk)

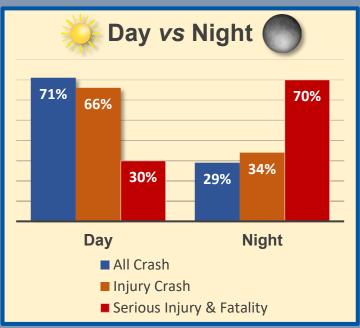
Bicyclists observed riding in bike lane and on sidewalks

Jaywalking observed both north and south of intersection during morning visit (often in adjacency to BCT Bus Stops)

University Dr & Sunrise BI - Crash Stats & Trends

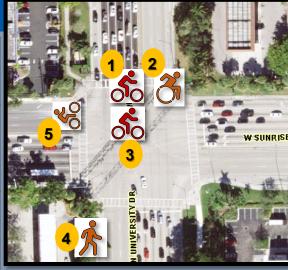
Signal 4, 2015 to 2021, 150 ft from Intersection



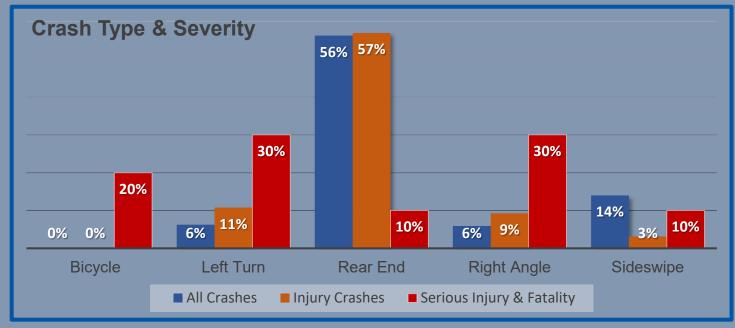




- Injury Motorized Wheelchair •
 July 2018 3pm Unknown
 Fault In crosswalk Struck by
 NB / RT vehicle
- Fatality May 2016 5 am •
 Unknown Fault: Bike riding in crosswalk was struck by SB vehicle



- Injury Jun 2019 9 pm Ped fault: Jaywalking and struck by SB vehicle
- Injury Apr. 2021 3pm Driver Fault: Bike riding in crosswalk was struck by LT Vehicle





University Dr: Sunrise Blvd – 9/21 & 22/2022









University Dr: <u>Very Preliminary</u> Long-term Vision

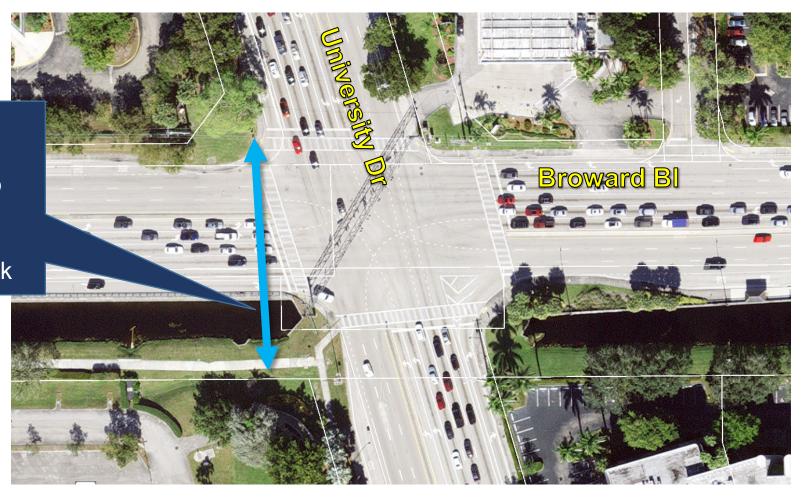


- Pedestrian Bridge
- Pedestrian Bridge over canal
- O Intersection Improvements to improve safety for all roadway users
- Signalized Mid-block crosswalk
- Mini-Roundabout within City ROW
- -- City ROW Repurposing: widen sidewalk, traffic calming, separated & protected bike facility, Ped-scale lights

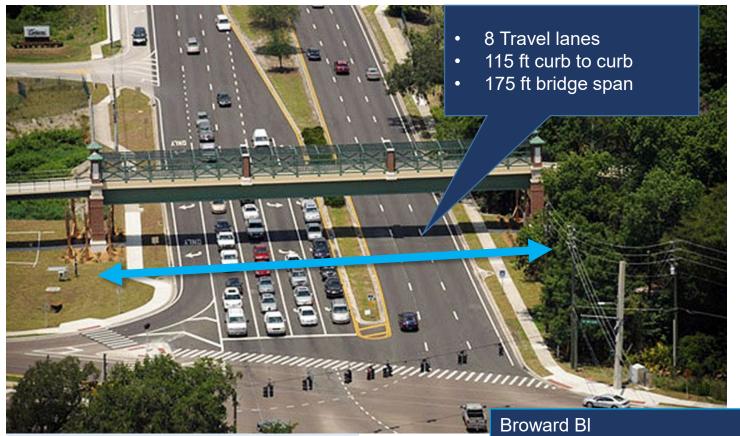
Broward BI & University Dr: Pedestrian Bridge Examples

Broward Bl

- 9 Travel lanes
- 110 ft curb to curb
- ~210 ft from crosswalk to greenway sidewalk



Pedestrian Bridge: Red Bug Lake Road Cross Seminole Trail Overpass, Casselberry, FL



https://www.google.com/maps/@28.6556512,-81.226873,3a,75y,160.97h,97.64t/data=!3m6!1e1!3m4!1s7WeEL7LnNSX9YobN48lNXw!2e0!7i16384!8i8192?hl=en

9 Travel lanes

- 110 ft curb to curb
- ~210 ft from crosswalk to greenway sidewalk



Pedestrian Bridge: Colonial Drive Pedestrian Overpass, Orlando, FL



https://www.google.com/maps/@28.5532763,-81.3804052,3a,75y,261.33h,85.28t/data=!3m6!1e1!3m4!1sSviZ34J7w8RIZiUczn5u0A!2e0!7i16384!8i8192

Broward BI

- 9 Travel lanes
- 110 ft curb to curb
- ~210 ft from crosswalk to greenway sidewalk



- Stairs to/from SR-50
 - Providing direct access to SR-50 from the bridge
 - Increasing connectivity with SR-50 sidewalks
 - Discouraging pedestrian crossing at grade
- Railings:
 - Single handrail at each side of bridge span





Project Schedule: City Working Group Meetings















Discuss:

- City's mid / longterm vision for multimodal transportation
- Project schedule
- Data collection
- Preliminary Locations
- Public Engagement Plan

Consensus:

- Plan Themes & criteria
- Roadways Discuss:
- Initial findings
- Preliminary recommendations for Focus Locations

- Field Audit Preliminary Findings
- Needs Assessment for Focus Roadways
- Present field audit observations
- Present overview of plans for locations
- Discuss opportunities at locations

• Present Preliminary Recommendations

Consensus:

 Final Recommendations

Discussion





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