

 Hollywood, FL

 June 13-14, 2024

# 2024 TRANSPORTATION SYMPOSIUM

## Bike Facilities & How They're Used



Kelly Morphy & Tiffany Gehrke

Florida Bicycle Association & FDOT Central Office



# Overview

This session aims to

- **bridge the gap** between design intent and actual use of bike facilities
- **examine common decisions** by users that weren't anticipated in the design phase
- explore how to **address these decisions proactively**
- examples may include contraflow, non-use of designated infrastructure like crosswalks and bike lanes, and decisions at control devices and intersections

# Session Objectives

- Understand common **discrepancies between design intent and real-world usage** of bike facilities.
- Identify common **decisions by vulnerable users** including people on bicycles who weren't anticipated in the design.
- Explore **strategies to bridge the gap** between design and use in solving challenges for transportation by bicycle.

# Tiffany Gehrke



- State Complete Streets Coordinator since 2022
- District 6 Bicycle & Pedestrian Coordinator 2019-2022
- 2021 Bicycle Professional of the Year by the Florida Bicycle Association



# Florida Department of Transportation

- **Mission:** The department will provide a **safe transportation system** that ensures the **mobility of people and goods**, enhances **economic prosperity**, and preserves the **quality** of our **environment and communities**.



# Kelly Morphy



- Executive Director since 2022
- Executive Director of Walkable and Livable Communities Institute 2013-2016
- 2021 Citizen Transportation Advocate of the Year by Women in Transportation Seminar of Central Florida

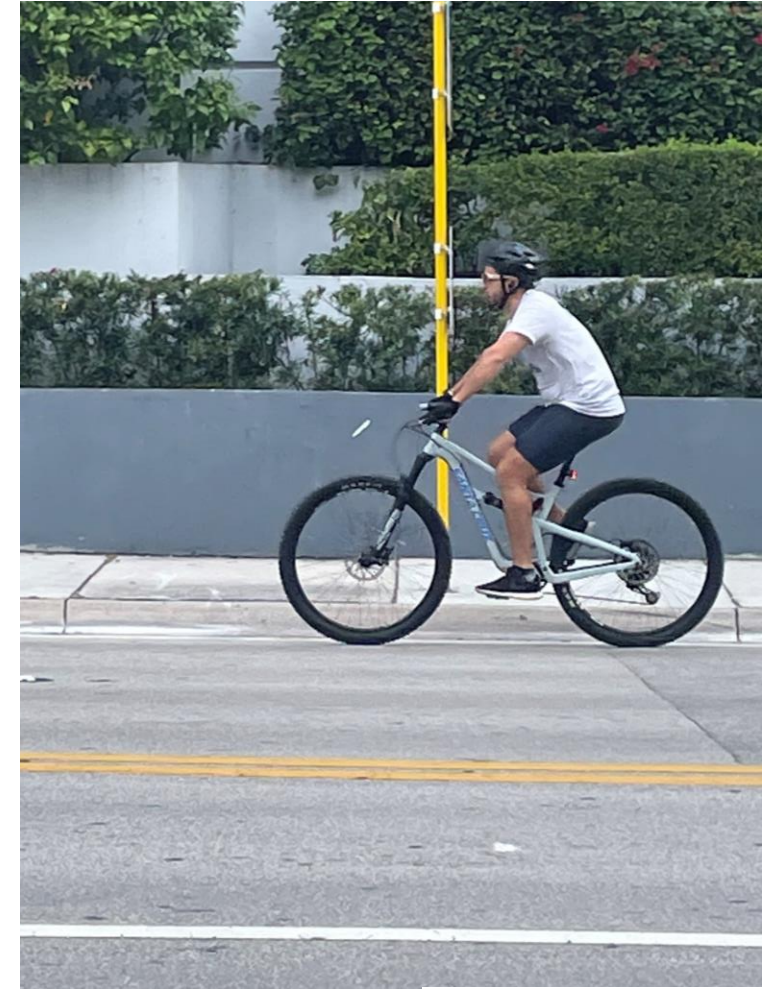


# Florida Bicycle Association

- **Mission:** make Florida better for people who want to bicycle and for people who need to bicycle.
- 501c3, membership-based non-profit organization
- *We do this work to improve public health, strengthen local economies, advance equity, and protect the environment.*



# Real Users: Who Do You Think They Are?





# Real Users: Who Are They?



# Real Users: Who Are They?

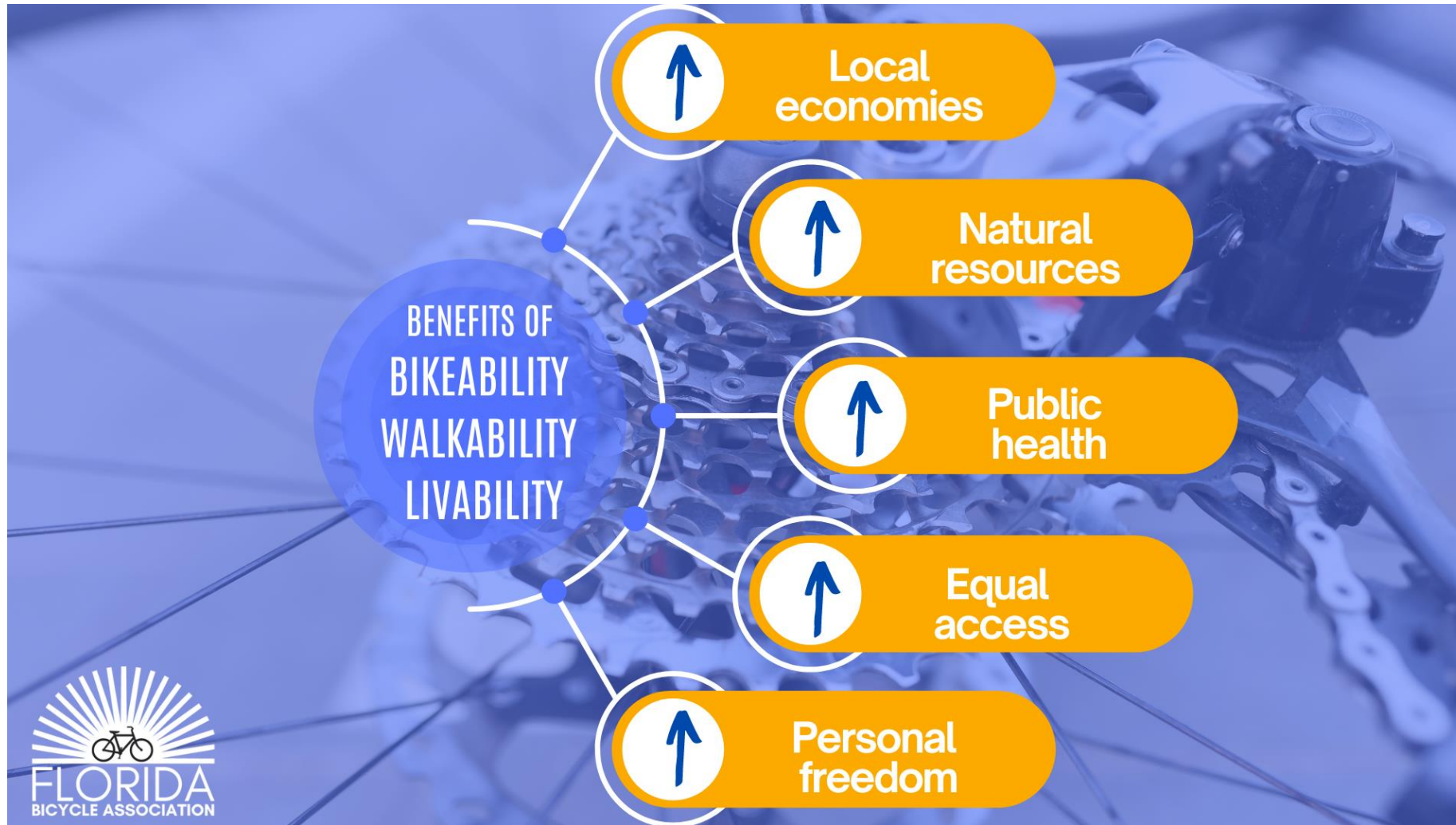


# Real Users: Who Are They?

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Spoiler Alert: They're Just People

# Why Does it Matter?



# Real People=Real Problems





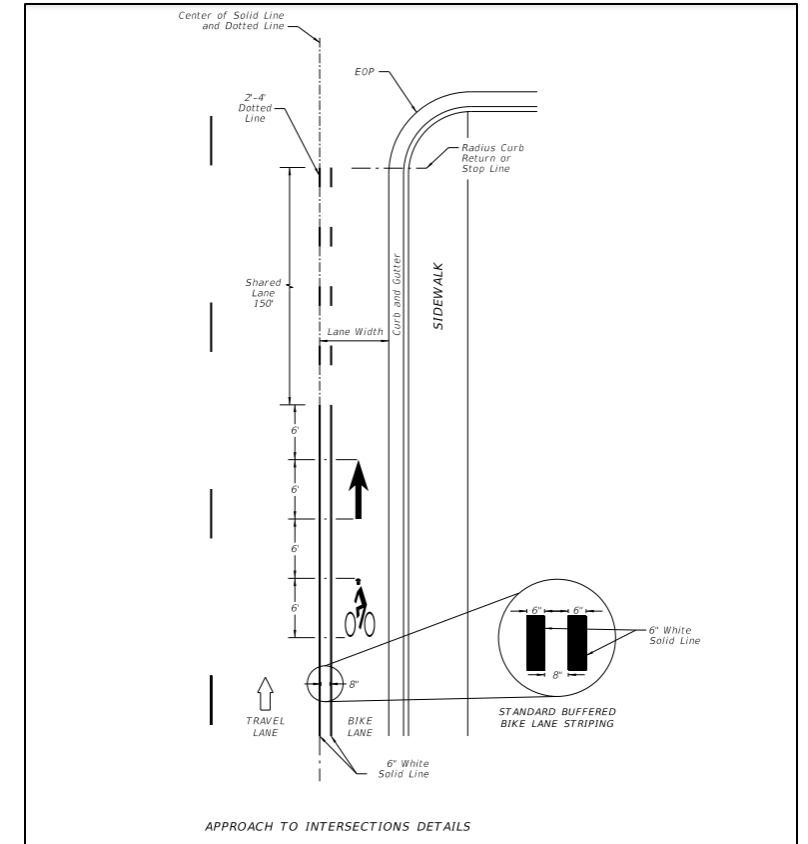
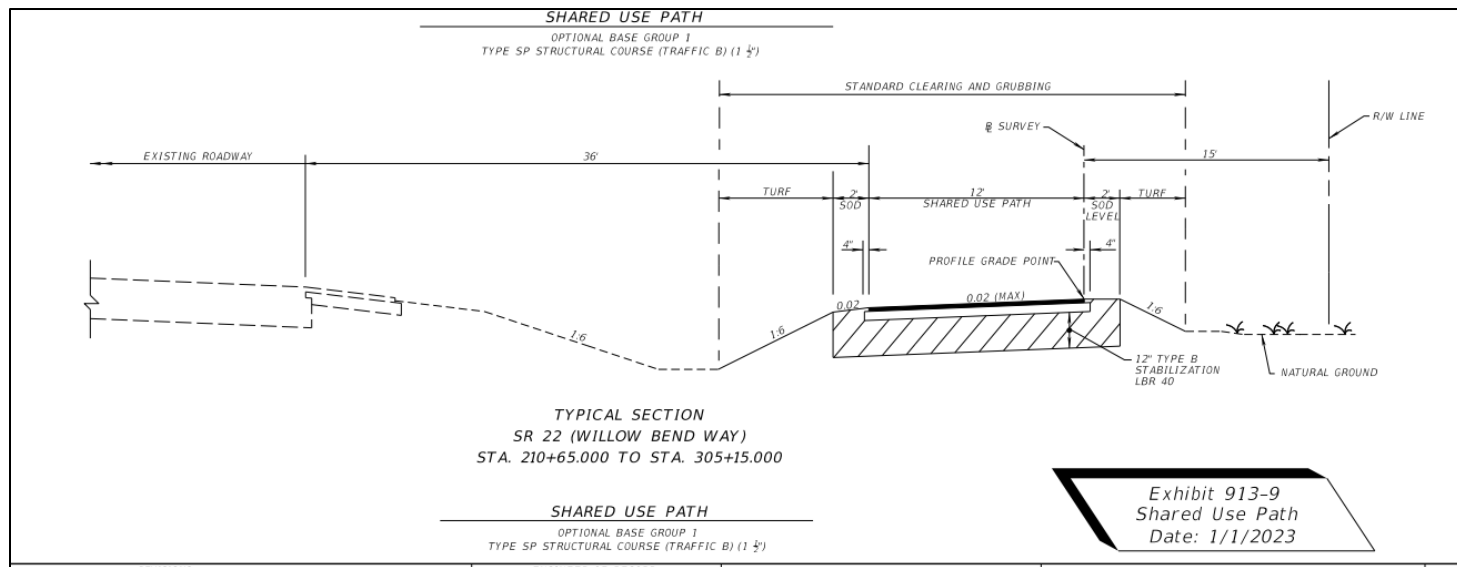
Expectations

Vs.

Reality



# Expectations: Using Facility Provided



# Real Users: What they Do





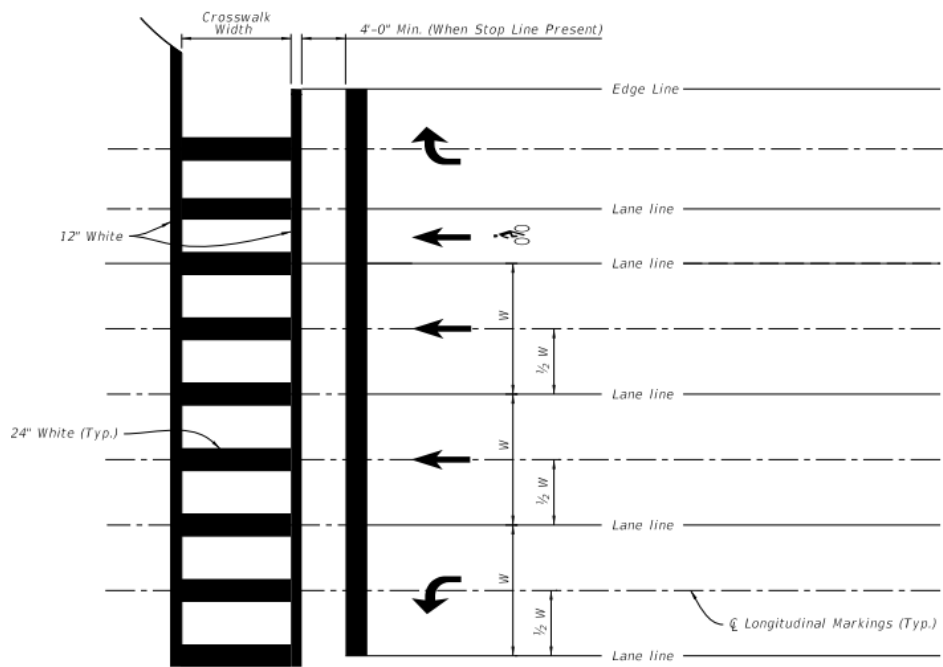
# Real Users: What they Do



# Real Users: What they Do

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# Expectations at Crossings



SPECIAL EMPHASIS CROSSWALK DETAILS



# Expectations at Crossings

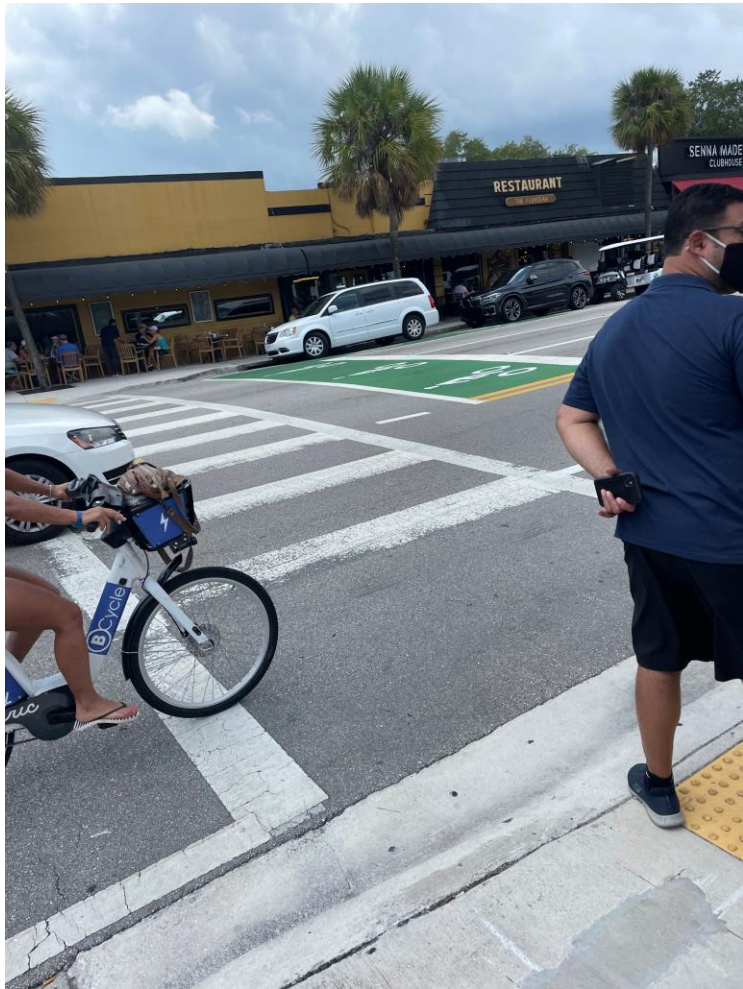
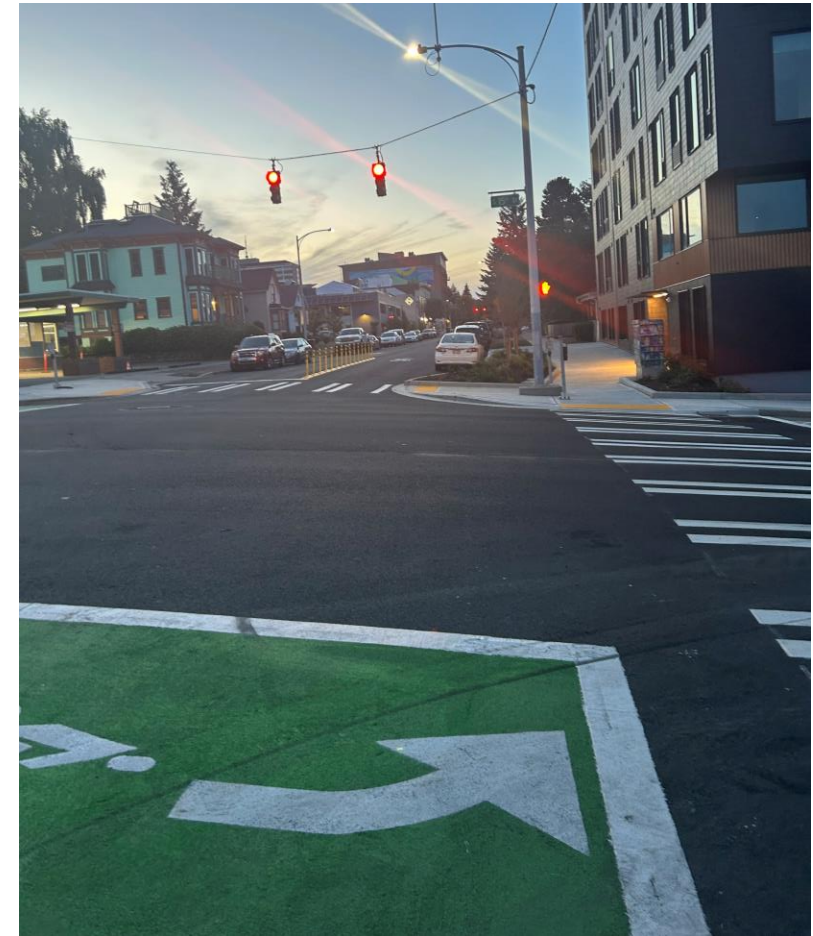
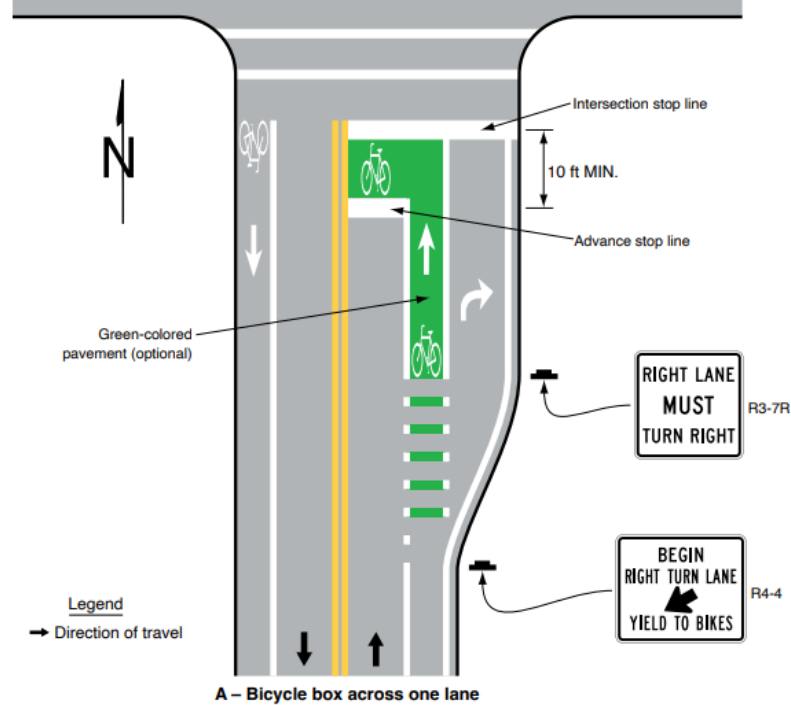


Figure 9E-12. Examples of Intersection Bicycle Boxes (Sheet 1 of 2)



# Real Users: What they Do



# Real Users: What they Do



# Real Users: What they Do



# Real Users: What they Do





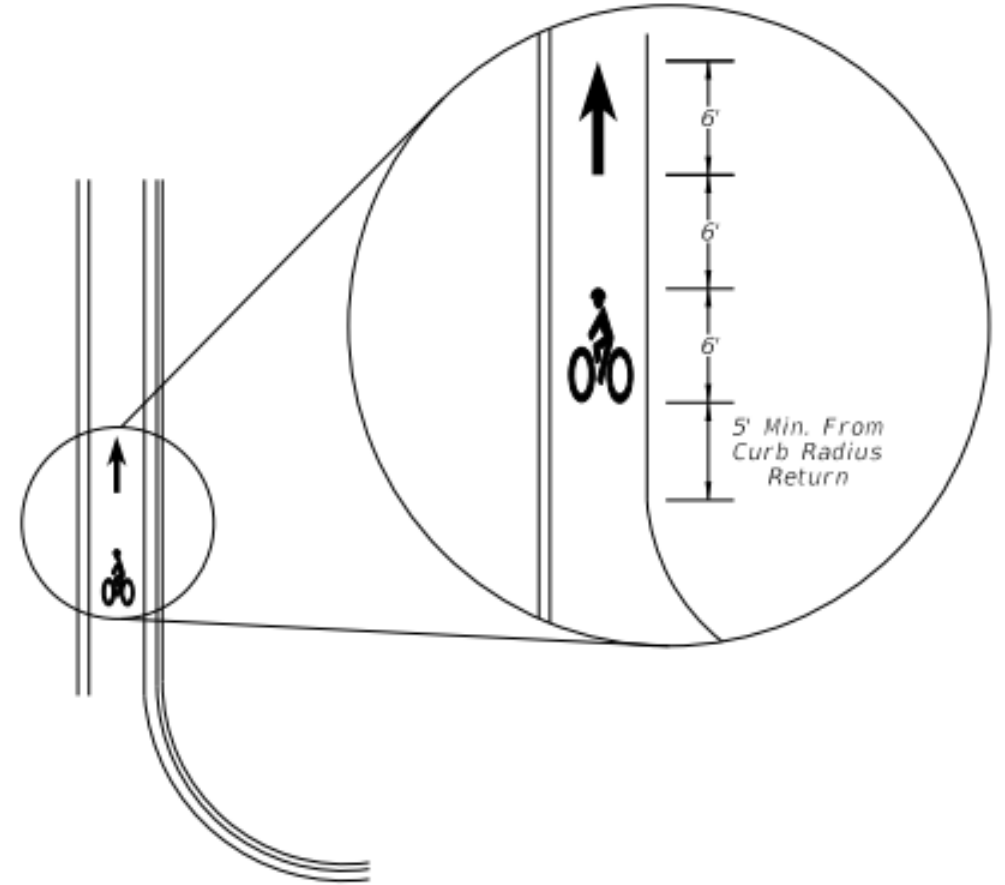
# Real Users: What they Do



# Expectations: Riding with Traffic

## Florida Statutes 316.2065

(1) Every person propelling a vehicle by human power has all of the rights and all of the duties applicable to the driver of any other vehicle under this chapter, except as to special regulations in this chapter, and except as to provisions of this chapter which by their nature can have no application.



# Real Users: What they Do

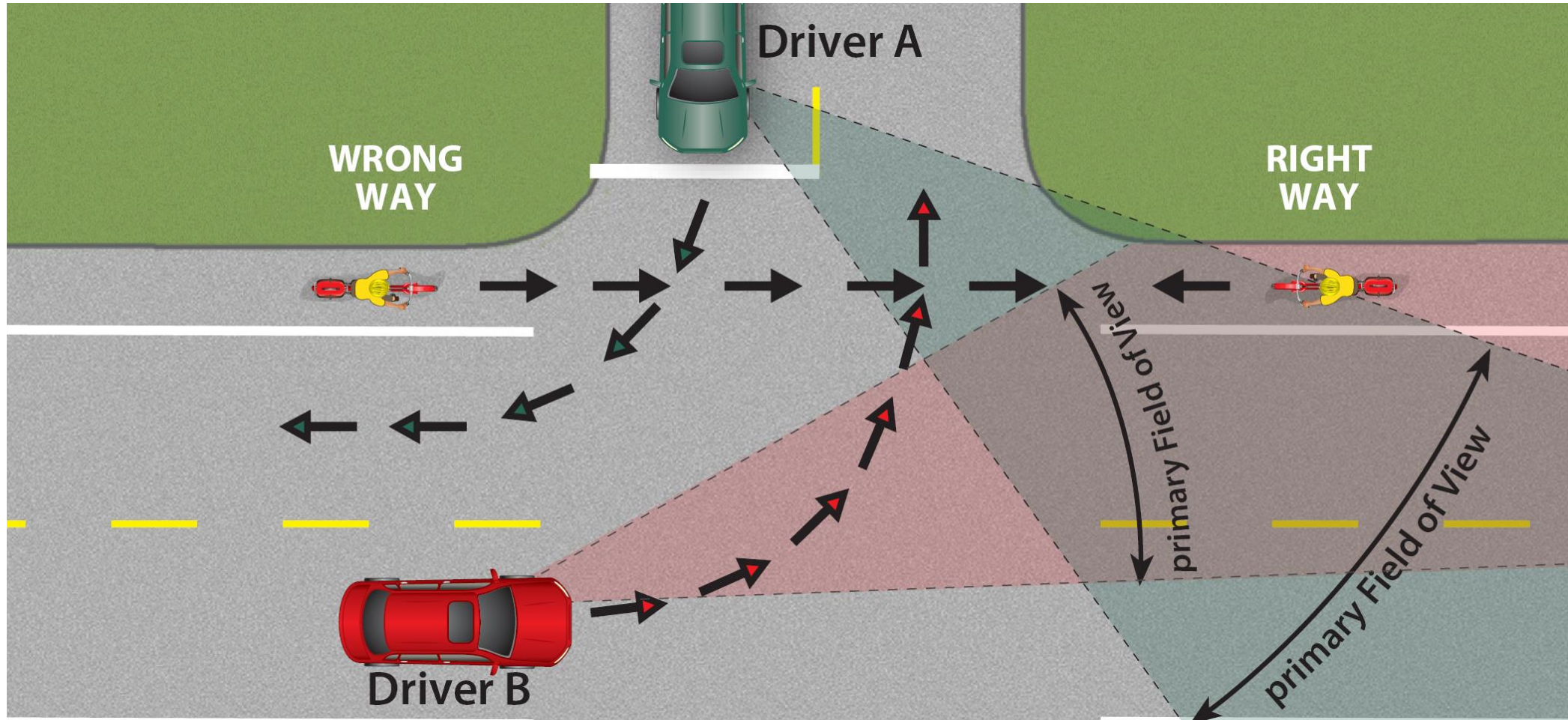
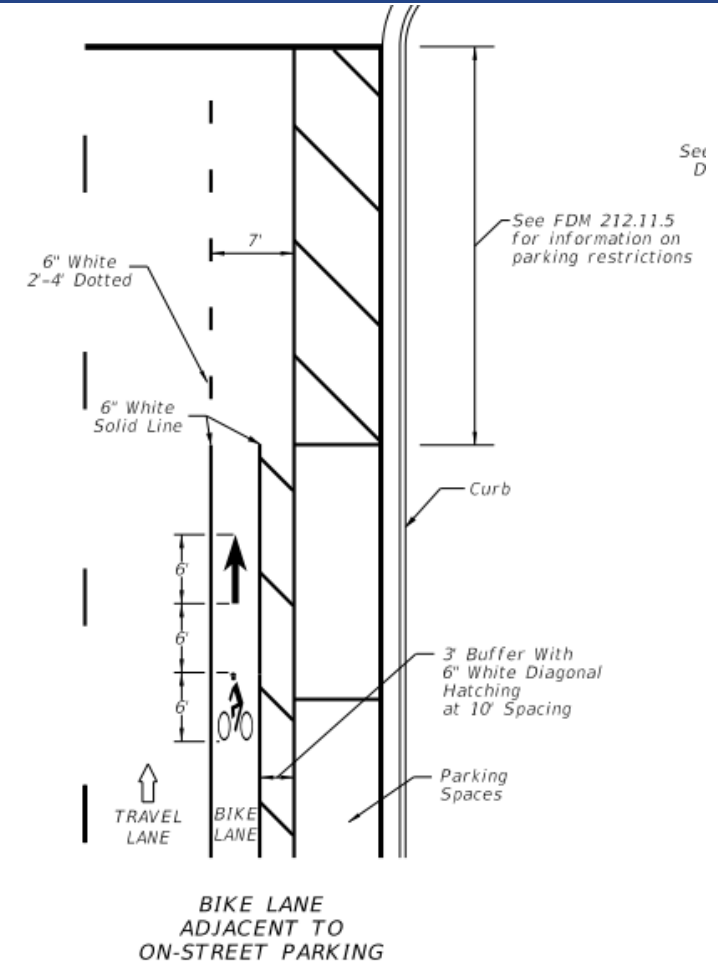


Image from: Oregon DOT

# Expectations Next to On-Street Parking

- 223.4 On-Street Parking
- Design to avoid “dooring”
- Parallel Parking:
  - Provide a 4-foot bicycle lane with a 3-foot buffer between the parking lane and bicycle lane
  - Provide a shared lane marking in place of a bicycle facility when less than 7 feet is available
- Angle Parking
  - Use a shared lane markings



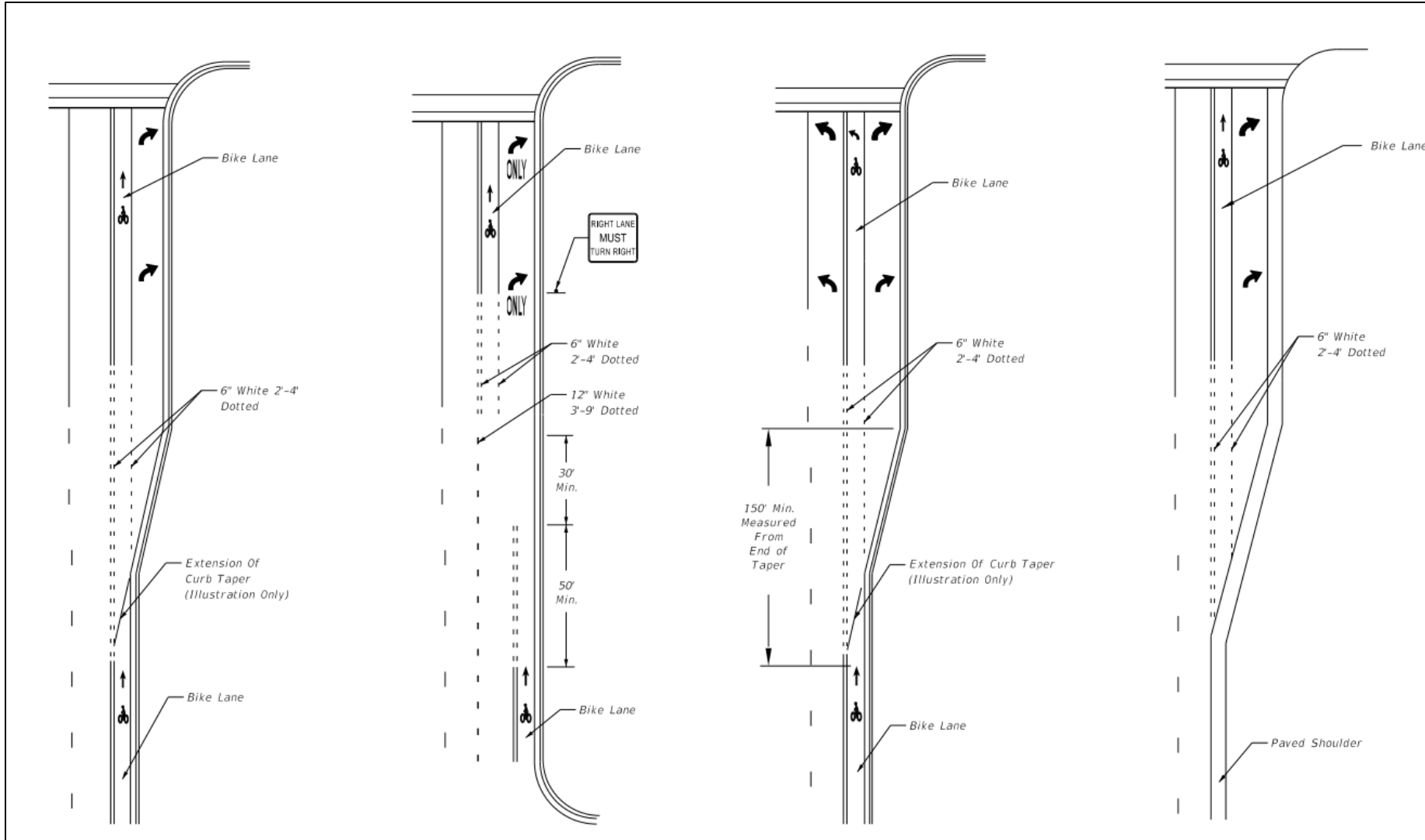
# Expectations Next to On-Street Parking



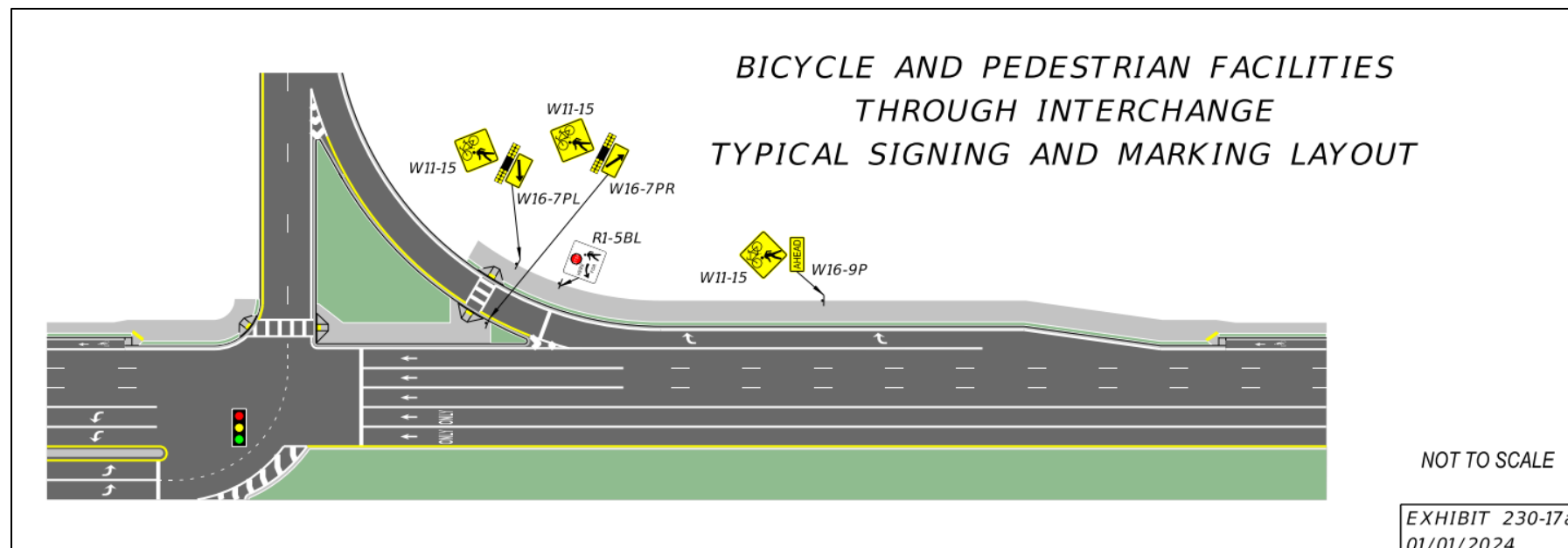
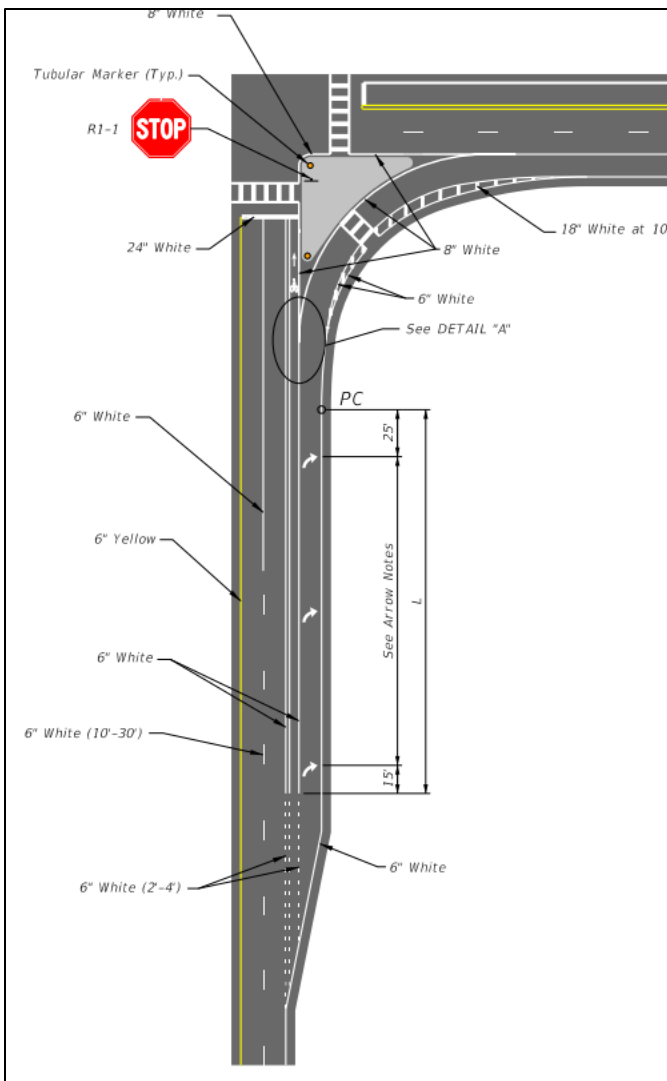
# Real Users: What they Do Next to On-Street Parking



# Expectations at Other Keyhole Lanes



# Expectations at Other Keyhole Lanes

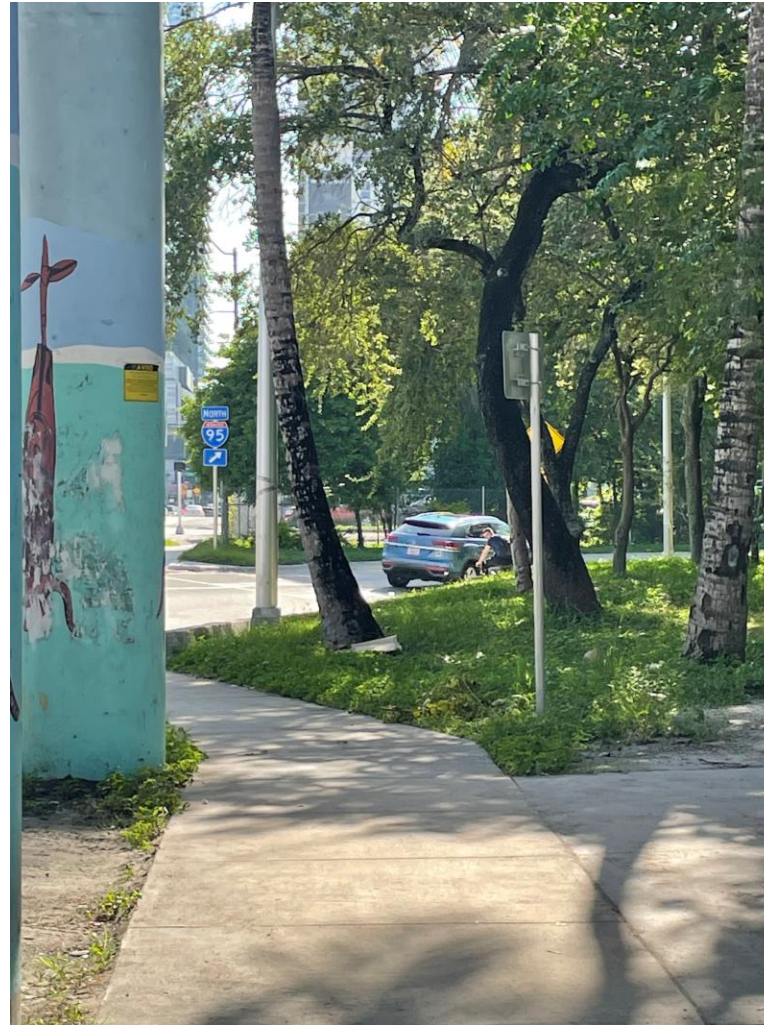
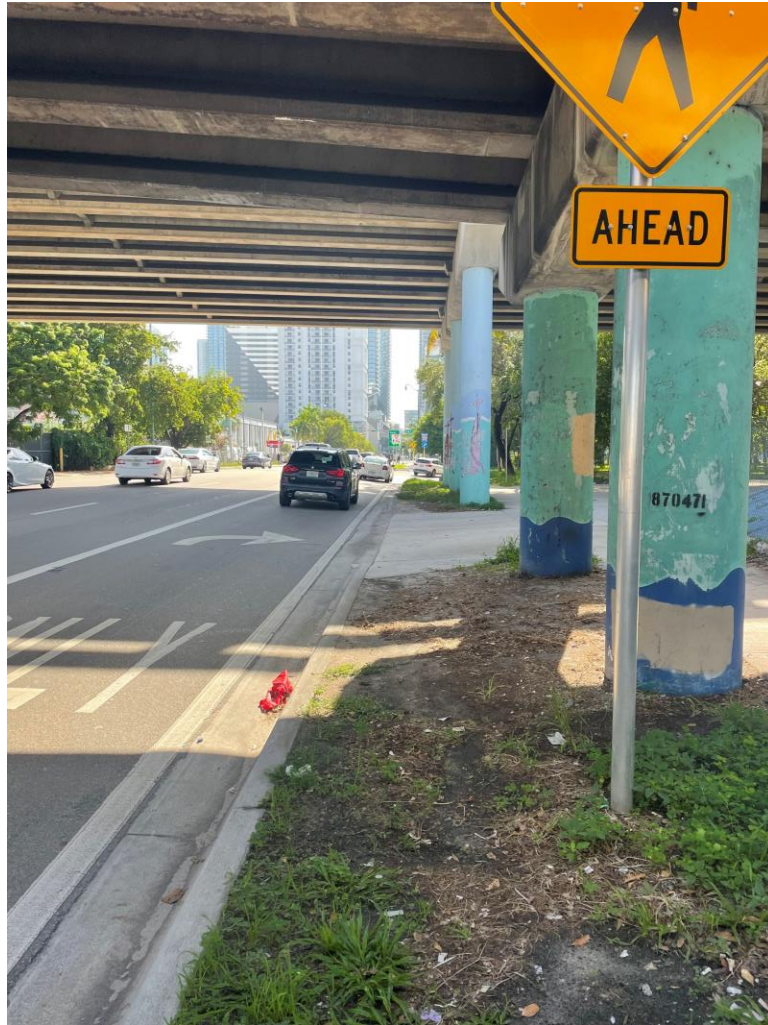




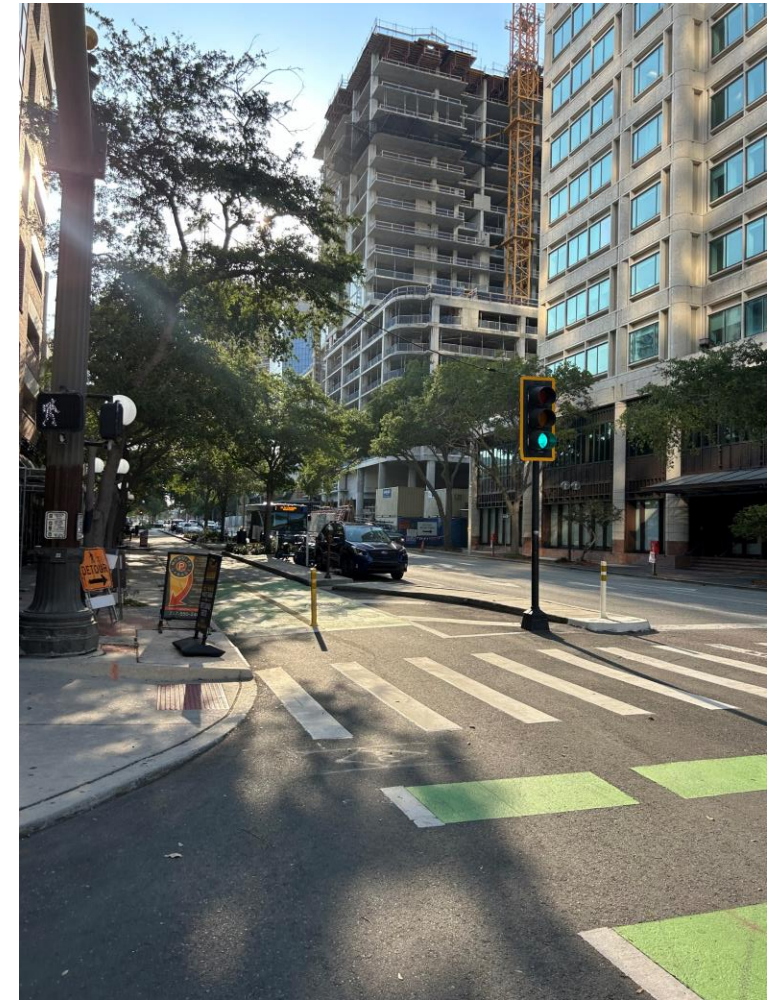
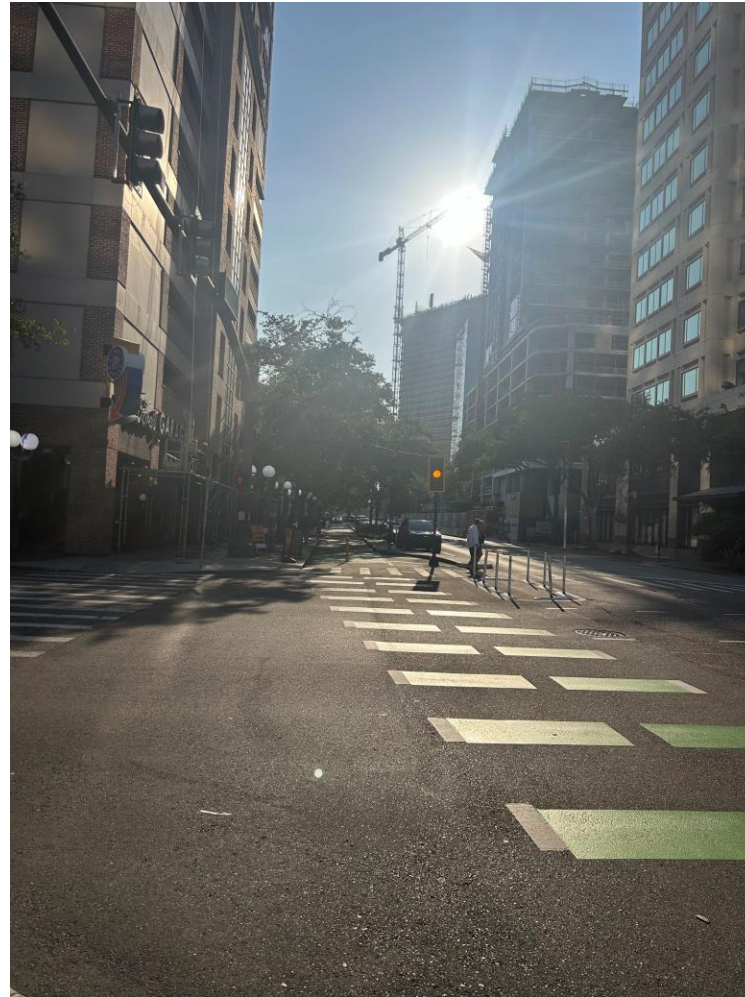
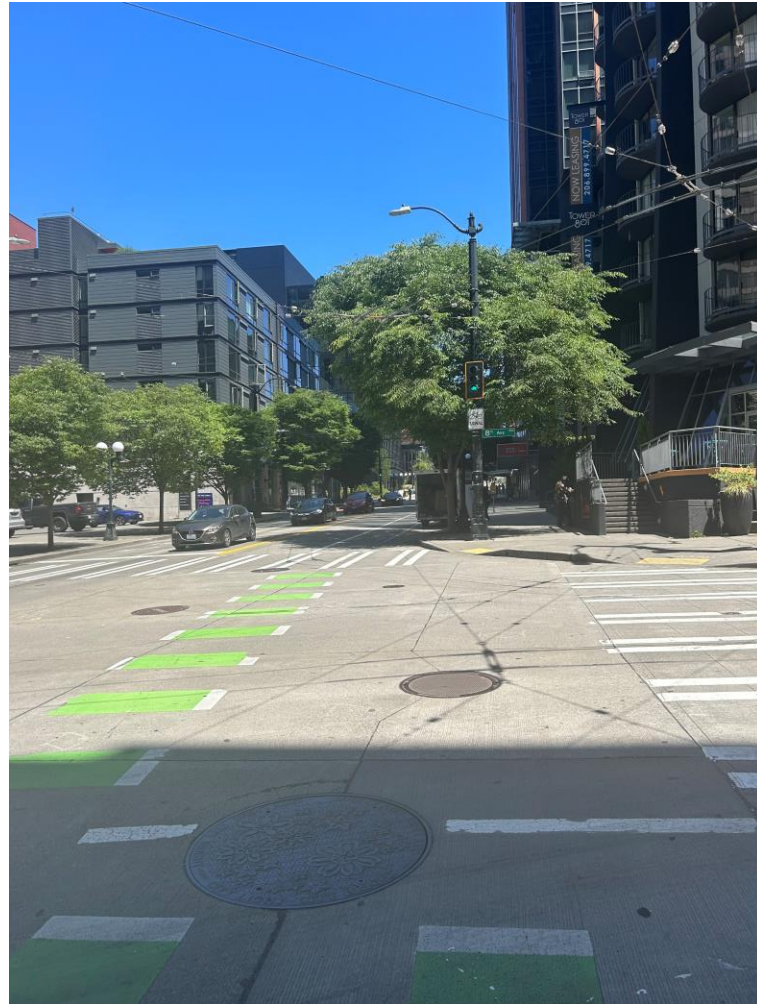
# Real Users: What they Do at Keyhole Lanes



# Real Users: What they Do at Keyhole Lanes



# Expectations at Stop Signs/Signals



# Real Users: What they Do at Stop Signs/Signals



# Real Users: What they Do at Railroad Crossings

Expectation



Reality



# Expectations at a Roundabout

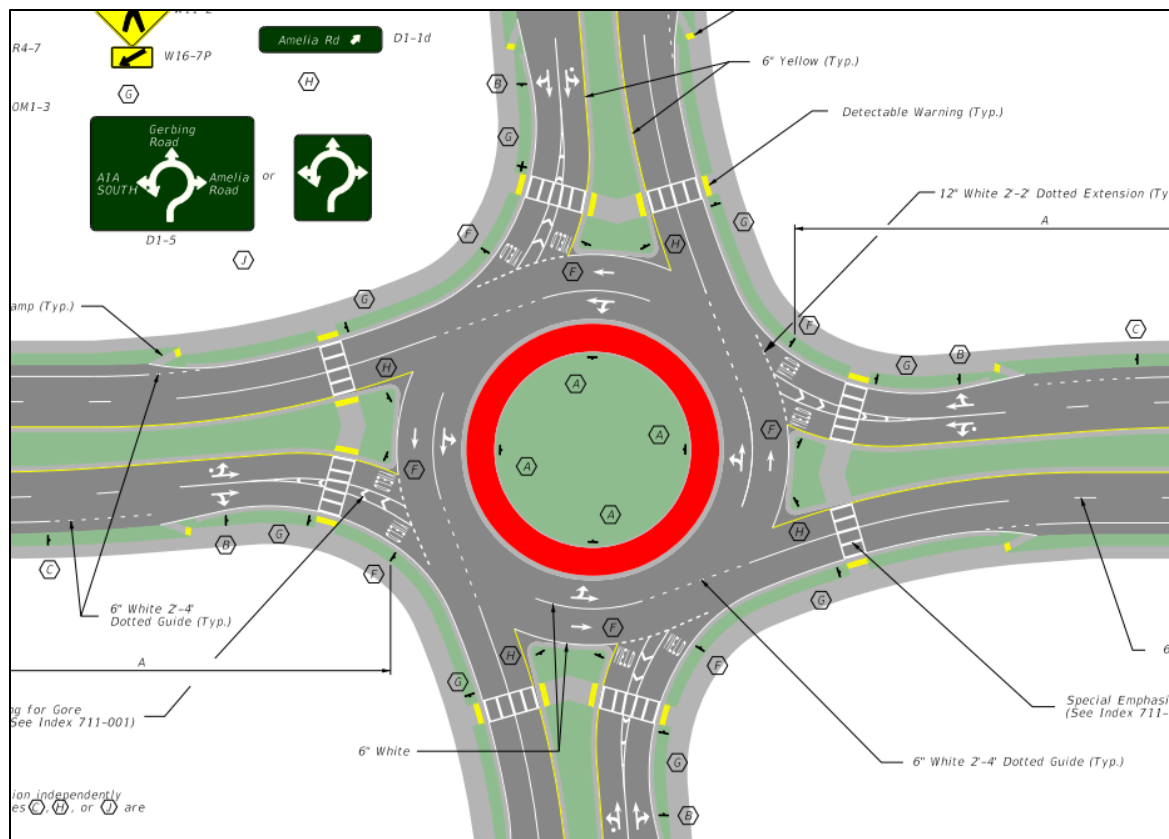
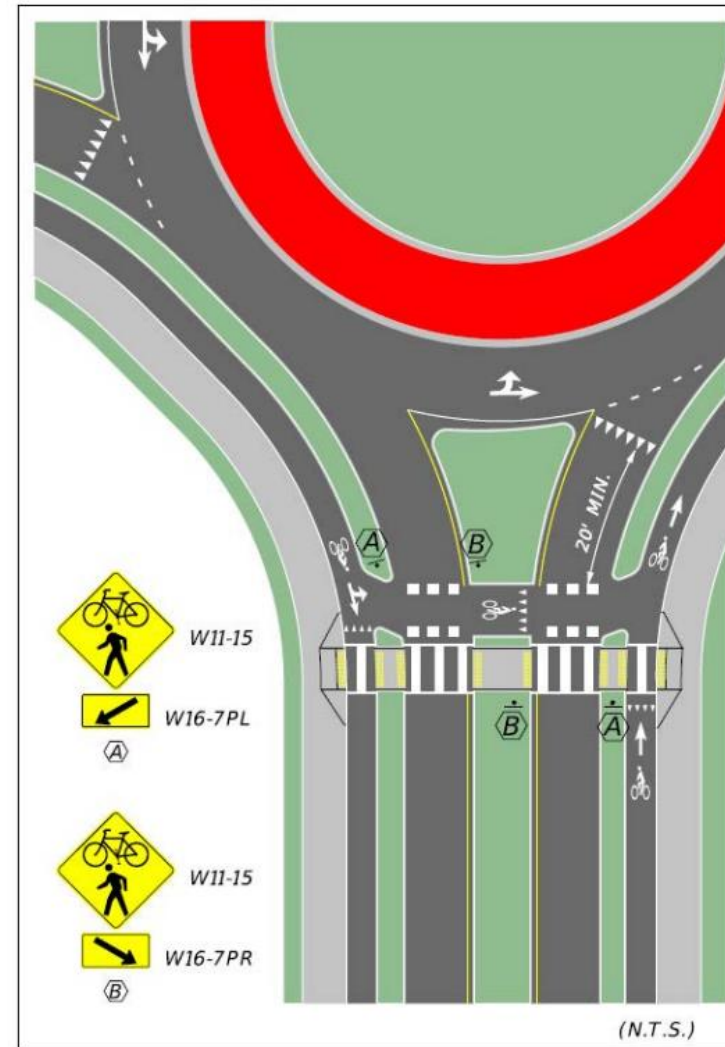


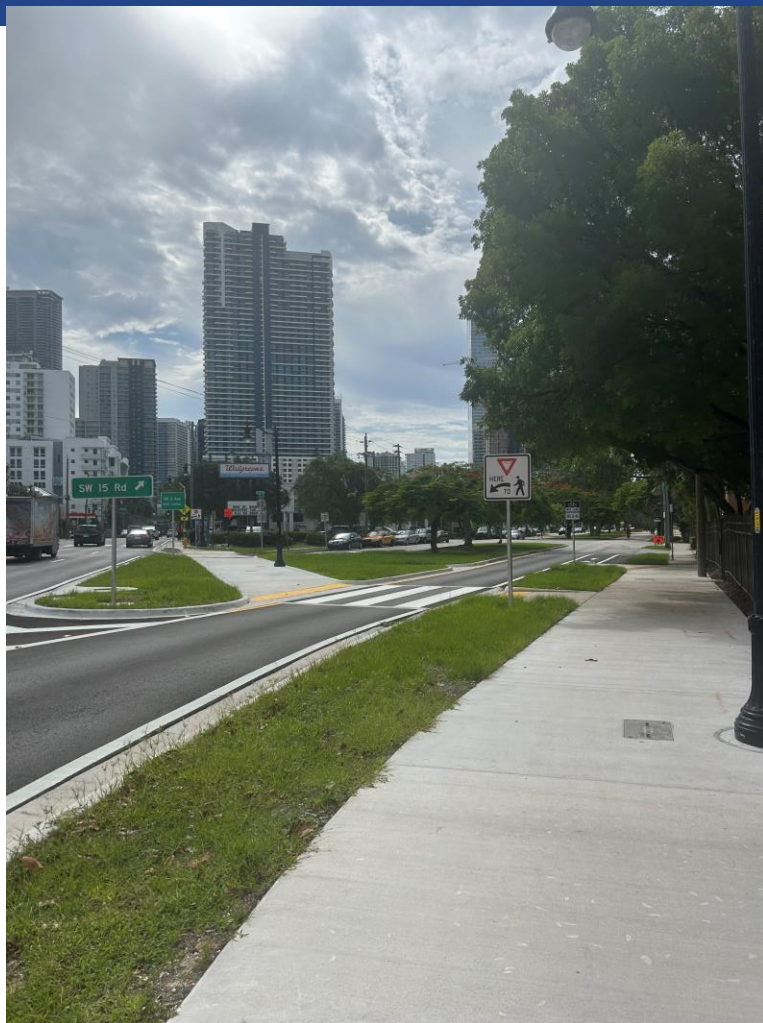
Figure 213.10.1 Roundabout S&PM with Separated Bicycle Lane



# Expectations at a Roundabout

*Provide physically separated bicycle facilities with bike ramps at multi-lane roundabouts. This allows cyclists the option to either use the physically separated facility to cross the intersection **or enter the travel lane and use the circulatory roadway to cross**. Physically separated bike facilities with bike ramps are optional for single lane roundabouts. –FDM 213.8.2*

# Expectations at a Roundabout





# Real Users: What they Do at a Roundabout



People on bicycles using a modern roundabout

Winter Garden Florida

# Key Takeaways & Next Steps



# Key Takeaways & Next Steps



# Key Takeaways & Next Steps



# FDOT Safety Message



**EVERY  
BICYCLIST &  
PEDESTRIAN  
IS IMPORTANT TO SOMEONE**

**Motorists: Slow Down and Share the Road Safely.**



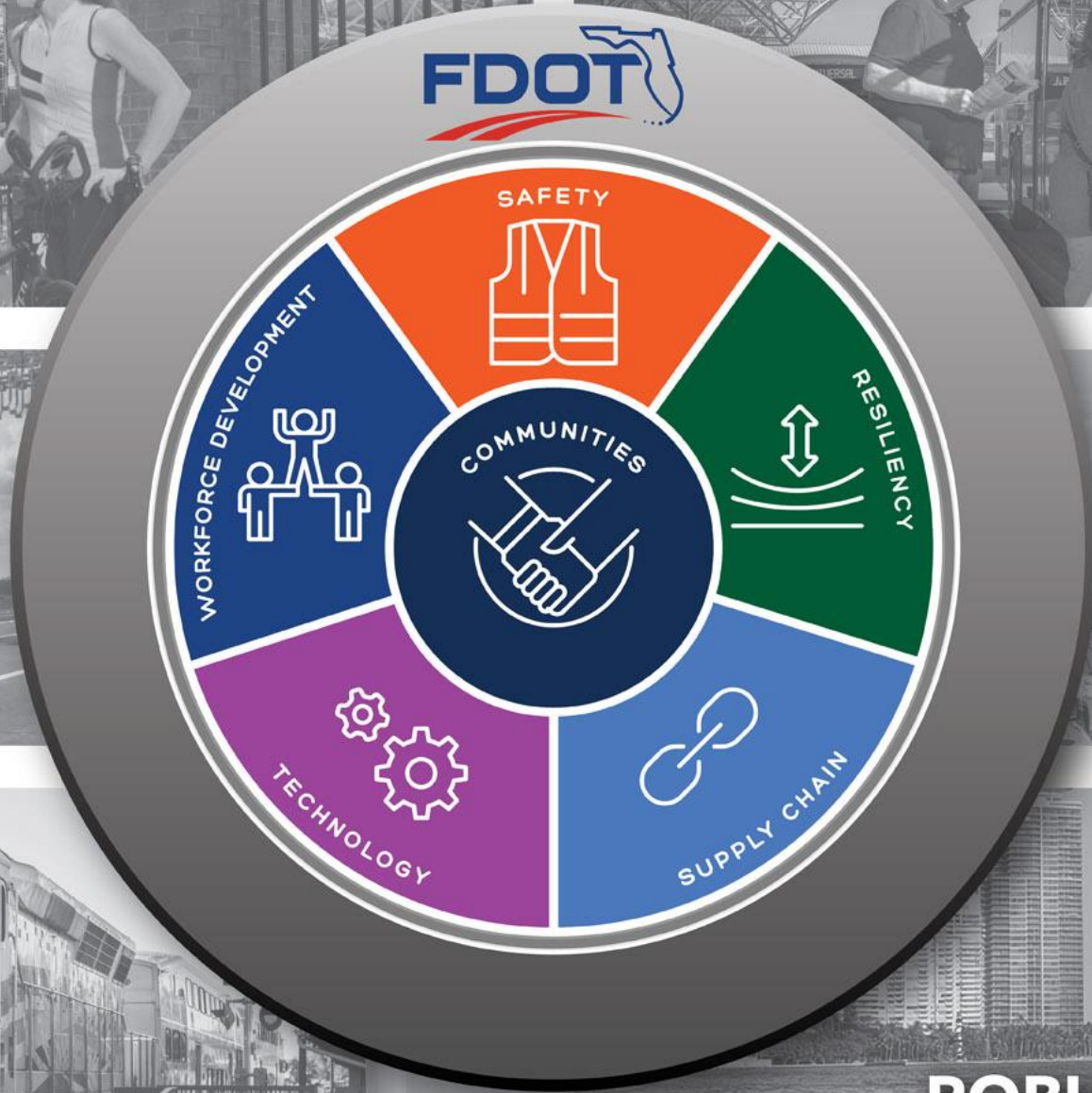
**SAFETY**



**COMMUNITIES**



**WORKFORCE DEVELOPMENT**



**RESILIENCY**



**TECHNOLOGY**



**ROBUST SUPPLY CHAIN**

# Contact Us



## Thank you!

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