

# FDOT Update FACERS Fall Meeting

November 15, 2023

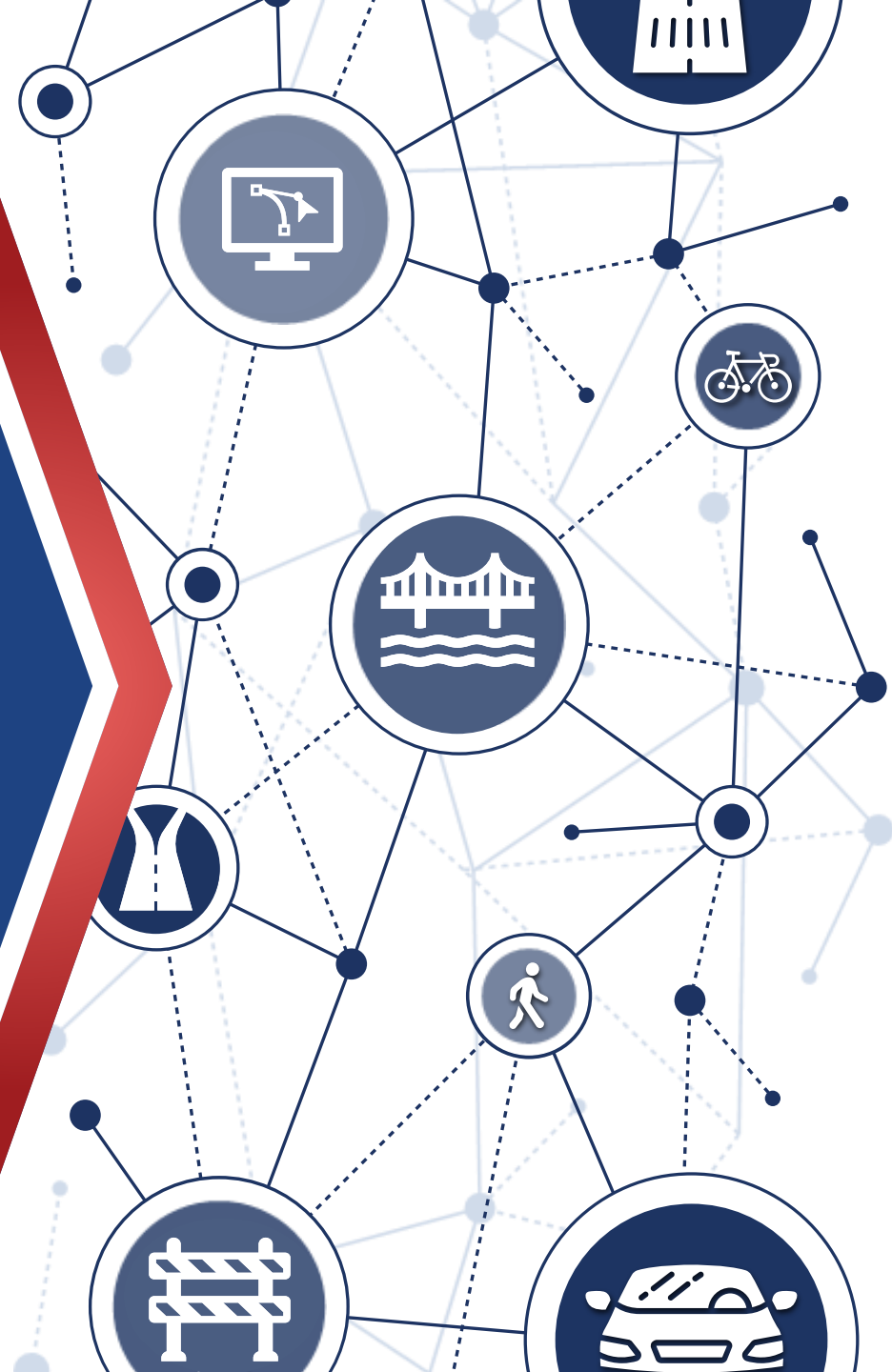
## Presenters:

Samantha Samford

State Local Program Administrator

Jacqui Morris, ATD, CPM, CNU-A

Criteria Publications Coordinator



# Introductions



***Samantha Samford***  
*FDOT Program Management*  
*State Local Program Administrator*



***Jacqui Morris, ATD, CPM, CNU-A***  
*FDOT Roadway Design*  
*Criteria Publications Coordinator*



***Derwood Sheppard, P.E.***  
*FDOT Roadway Design*  
*State Roadway Design Engineer*



# **Current Joint Efforts- Design, Safety, Etc.**

# Target ZERO

Strategic Approach to Saving Lives

Brenda Young, P.E., CPM  
State Safety Engineer



# Targeting ZERO

## Traditional approach

Prevent crashes



## Safe System approach

Prevent death and serious injuries

Improve human behavior



Design for human mistakes/limitations

Control speeding



Reduce system kinetic energy

Individuals are responsible

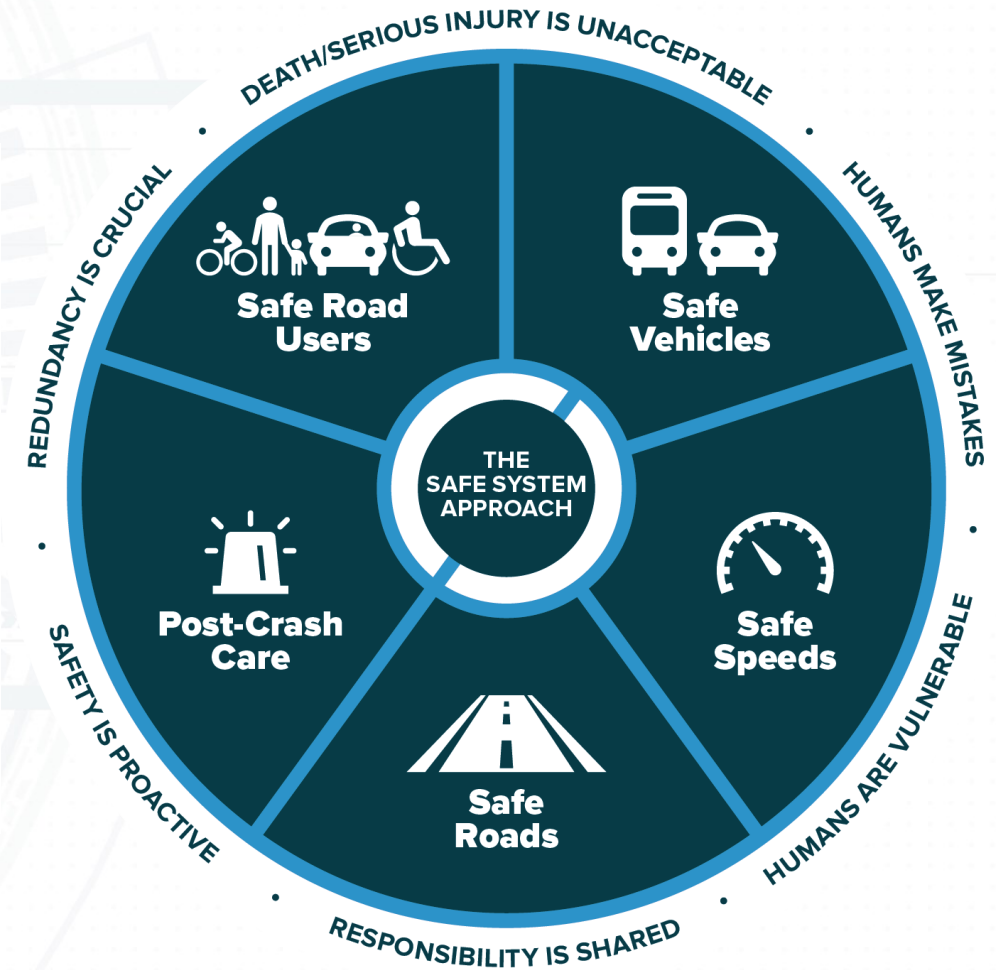


Share responsibility

React based on crash history



Proactively identify and address risks



# Preventing Death and Serious Injury



# Proactively Identify and Address Risks

**EXAMPLE:**  
**LANE DEPARTURE  
CRASH FACTS**

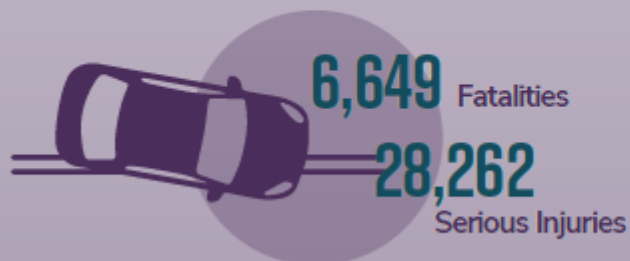




## SIGNAL FOUR (S4) ANALYTICS | 2017-2021 FATAL AND SERIOUS INJURY CRASHES | ALL PUBLIC ROADWAYS

### 2017-2021 Crash Data

#### Number of People



#### Statewide



#### Daily Average



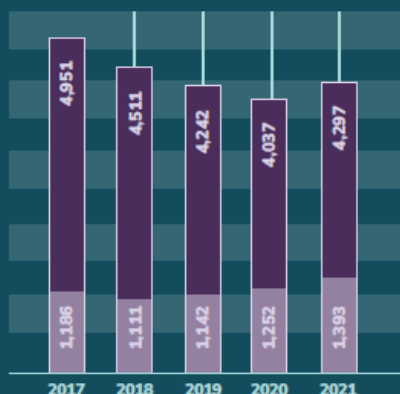
[https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/safety/11a-safetyengineering/crash-data/top-risk-factors-in-fatal-and-serious-injury-lane-departure-crashes.pdf?sfvrsn=9d9d4f7b\\_2](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/safety/11a-safetyengineering/crash-data/top-risk-factors-in-fatal-and-serious-injury-lane-departure-crashes.pdf?sfvrsn=9d9d4f7b_2)



### When Did Crashes Occur?

#### Fatal and Serious Injury Crashes by Year

■ Serious Injury Crash  
■ Fatal Crash



Crashes Commonly Occur on  
**FRI - SUN**



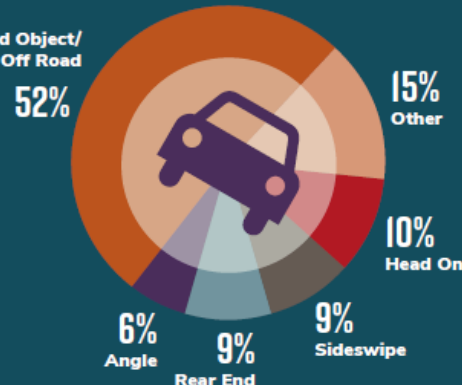
Crashes Commonly Occur from  
**2 PM - 8 PM**



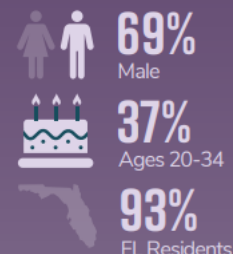
**52%** Day  
**48%** Night

### Vehicle Maneuver

Fixed Object/  
Run Off Road

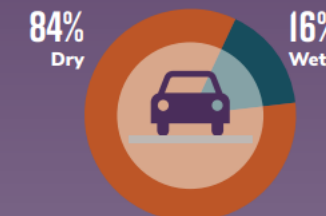


### Driver

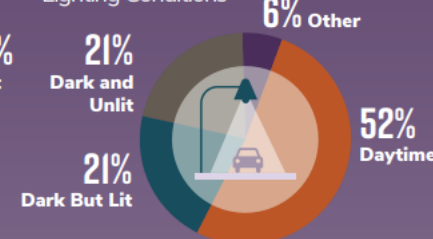


### Environment

#### Road Surface Conditions



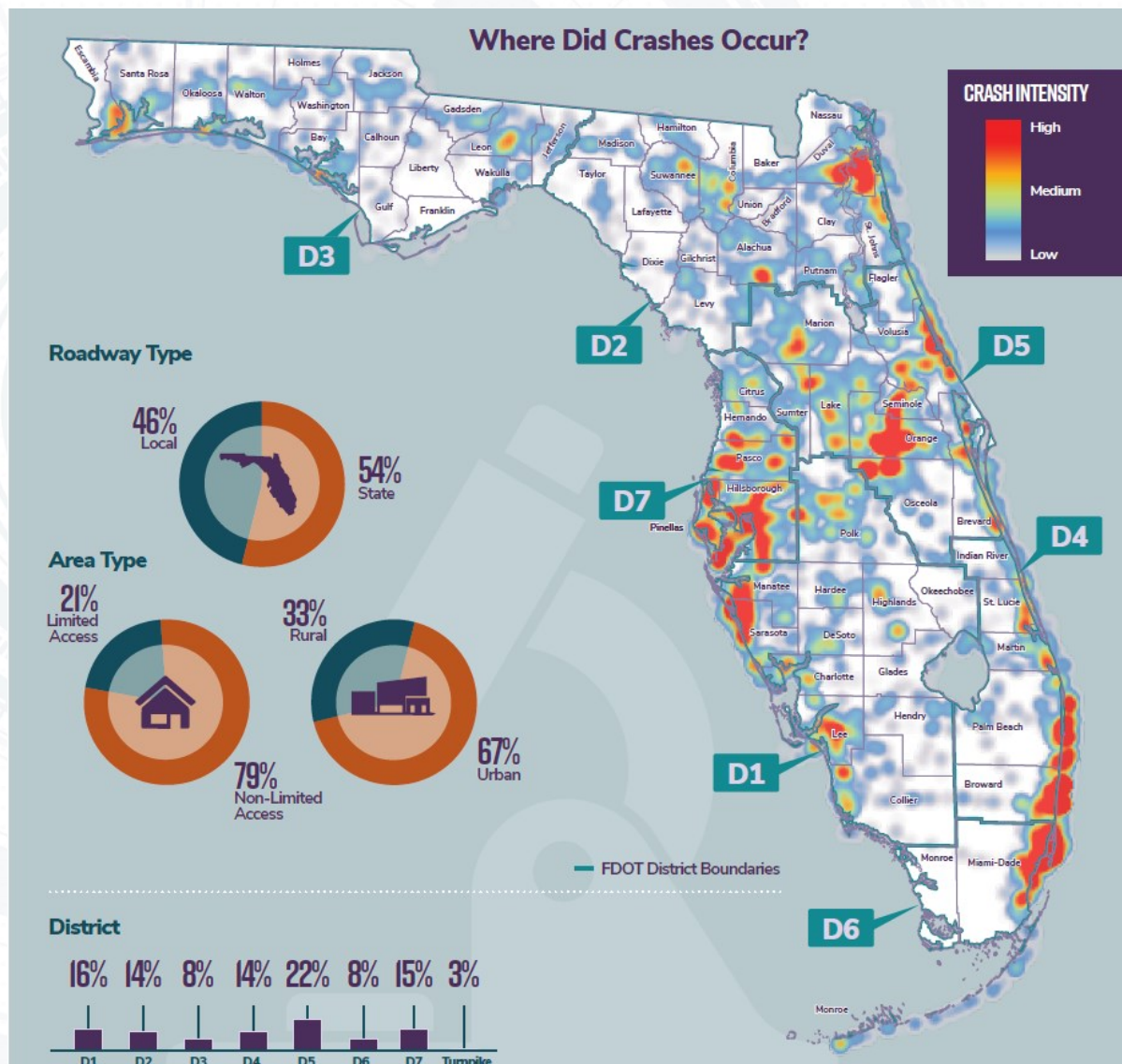
#### Lighting Conditions







## SIGNAL FOUR (S4) ANALYTICS | 2017-2021 FATAL AND SERIOUS INJURY CRASHES | ALL PUBLIC ROADWAYS



[https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/safety/11a-safetyengineering/crash-data/top-risk-factors-in-fatal-and-serious-injury-lane-departure-crashes.pdf?sfvrsn=9d9d4f7b\\_2](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/safety/11a-safetyengineering/crash-data/top-risk-factors-in-fatal-and-serious-injury-lane-departure-crashes.pdf?sfvrsn=9d9d4f7b_2)



Accounts for  
**33%**  
of All Fatalities  
and Serious Injuries

# LANE DEPARTURE COUNTERMEASURES

Fixed Object/  
Run Off Road

**52%**

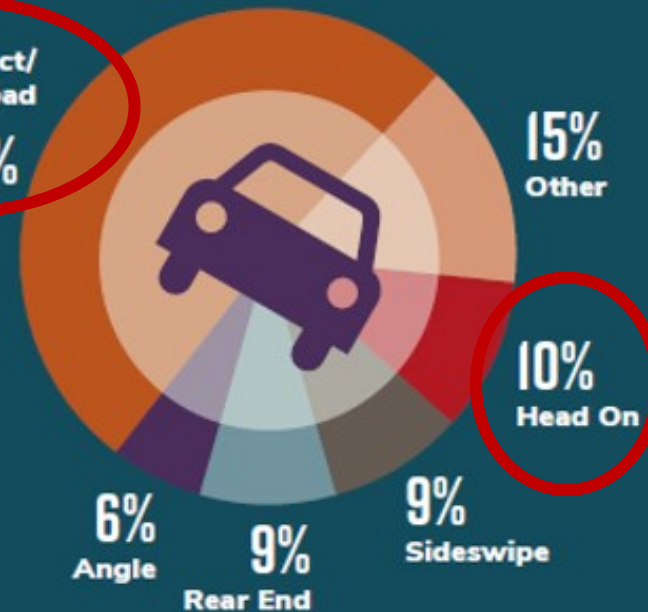
**15%**  
Other

**10%**  
Head On

**9%**  
Sideswipe

**9%**  
Rear End

**6%**  
Angle





# COUNTERMEASURES – FIXED OBJECT / RUN OFF ROAD

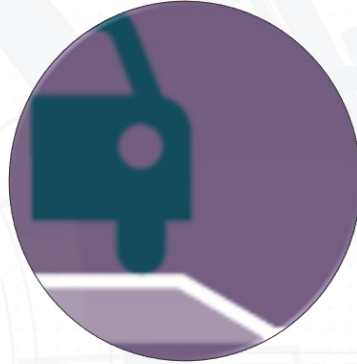
Enhance  
Lighting



Install W-beam Guardrail  
(Roadside Barrier)



Install Safety  
Edge



Flatten Side Slope From  
1V:6H To 1V:7H



High Friction  
Treatment on  
Horizontal Curves



Widen Edgeline  
From 4" To 6"



Install W-beam Guardrail  
(Median Barrier)



Widen Shoulder  
By 4'



Edgeline & Centerline  
Rumble Strips



Chevron Signs on  
Horizontal Curves



# COUNTERMEASURES – HEAD ON

Enhance Lighting



Passing Lane



Install W-beam Guardrail  
(Median Barrier)



Super-2 Roadway

Wider lanes and wide paved shoulder



Centerline Rumble Strips



Post Mounted Delineators





# COUNTERMEASURES WEBSITE

[Countermeasures \(fdot.gov\)](https://countermeasures.fdot.gov)

## FHWA's Proven Effective Countermeasures to Address These Risk Factors:

### Lane Departure

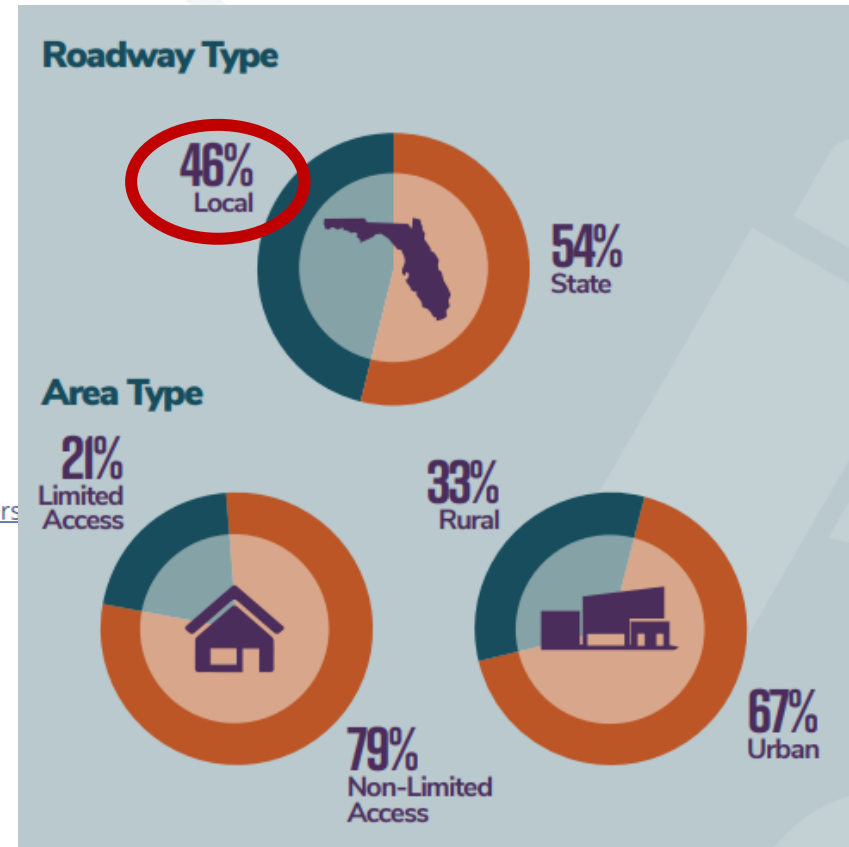
1. [Enhanced Delineation for Horizontal Curves](#)
2. [Longitudinal Rumble Strips and Stripes on Two-Lane Roads](#)
3. [Median Barriers](#)
4. [Roadside Design Improvements at Curves](#)
5. [SafetyEdge<sup>SM</sup>](#)
6. [Wider Edge Lines](#)
7. [Lighting](#)
8. [Pavement Friction Management](#)

### Pedestrian and Bicyclist

1. [Crosswalk Visibility Enhancements](#)
2. [Pedestrian Hybrid Beacons](#)
3. [Rectangular Rapid Flashing Beacons](#)
4. [Lighting](#)
5. [Appropriate Speed Limits for All Road Users](#)
6. [Medians and Pedestrian Refuge Islands in Urban and Suburban Areas](#)
7. [Leading Pedestrian Interval](#)
8. [Bicycle Lanes](#)
9. [Roadway Configuration](#)
10. [Walkways](#)
11. [Pavement Friction Management](#)

### Intersection

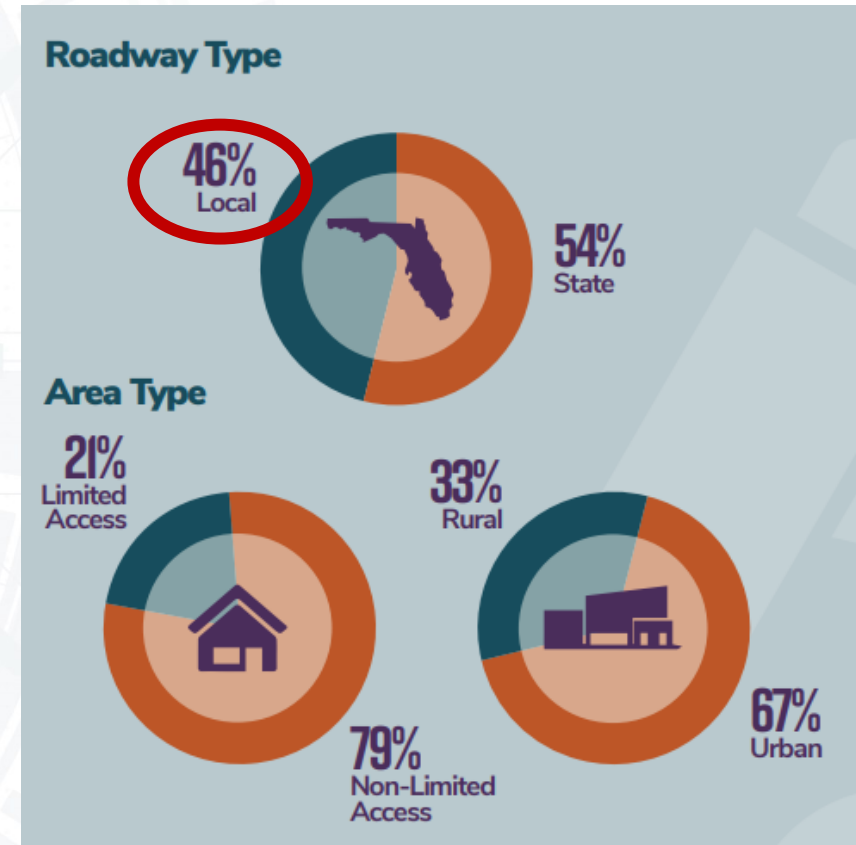
1. [Backplates with Retroreflective Borders](#)
2. [Corridor Access Management](#)
3. [Dedicated Left- and Right-Turn Lanes at Intersections](#)
4. [Reduced Left-Turn Conflicted Intersections](#)
5. [Roundabouts](#)
6. [Systemic Application of Multiple Low-Cost Countermeasures at Stop-Controlled Intersections](#)
7. [Yellow Change Intervals](#)
8. [Lighting](#)
9. [Pavement Friction Management](#)



# DATA DRIVEN APPROACH TO PRIORITIZE RESOURCES



**WE WANT YOU!**  
**YOUR DATA!**



# FEDERAL FUNDING FOR ON- AND OFF-SYSTEM USE

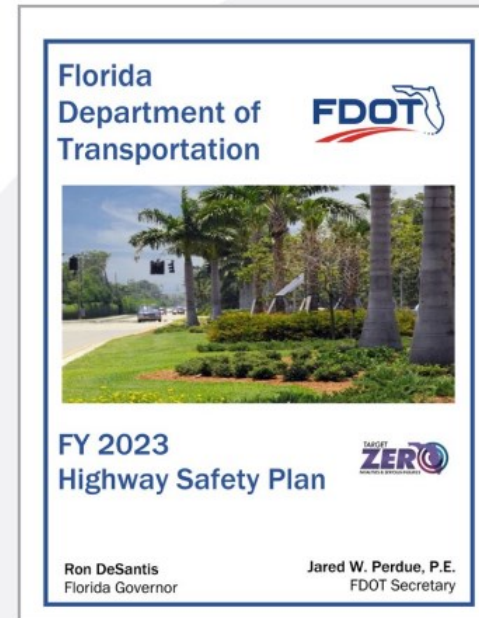
## Federal Highway Administration (FHWA)

- » Engineering and Infrastructure Improvements
- » Safe Routes to Schools
- » Lane Departure, Intersection, Ped/Bike Focused Initiative
- » Training



## National Highway Traffic Safety Administration (NHTSA)

- » Education and Mass Media
- » Enforcement
- » Traffic Records
- » Training

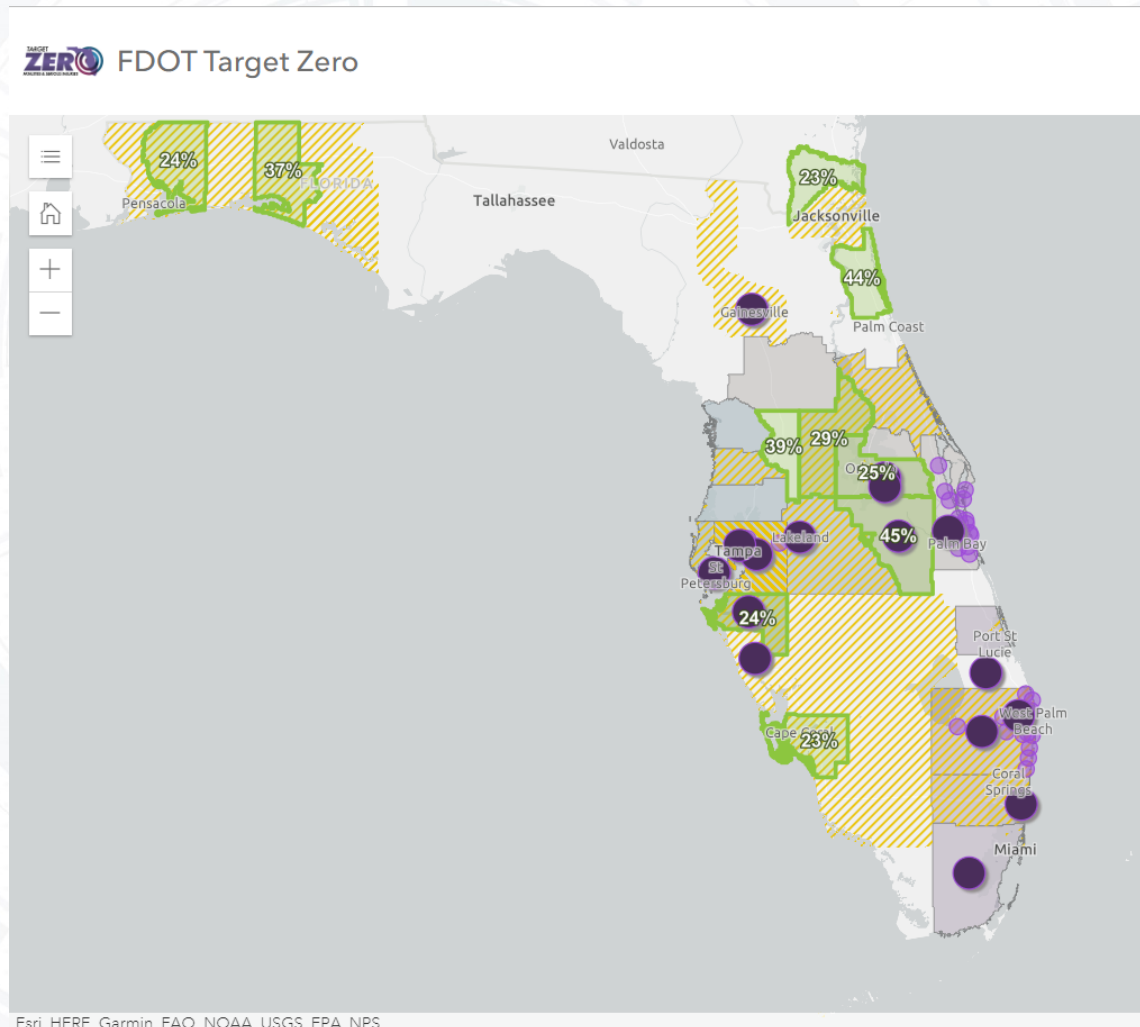


[florida-hsip-manual-v2021-f-\(2021-08-12\).pdf \(windows.net\)](https://www.fhwa.dot.gov/publications/manuals/florida-hsip-manual-v2021-f-(2021-08-12).pdf)





# DATA DRIVEN APPROACH TO PRIORITIZE RESOURCES



Top Counties for Lane Departure, Intersection, Pedestrian and Bicyclist Fatalities and Serious Injuries

Top Counties for Population Growth

Partner Agencies with “Zero” Resolution and/or Action Plan

Partners Awarded with ‘Safe Streets for All’ Federal Grants





# HELP US REACH ZERO!

[target-zero-florida.pdf \(windows.net\)](#)



Clickable links on pdf

Florida established Target Zero in the **Strategic Highway Safety Plan** to provide a framework for how Florida's communities work to achieve the national vision of zero fatalities and serious injuries TOGETHER, by:

- Establishing the **FORMAL PERFORMANCE TARGET OF ZERO** fatalities and serious injuries with the **Federal Highway Administration (FHWA)** and **National Highway Traffic Safety Administration (NHTSA)**, and **TRACKING PROGRESS** toward that goal.
- Supporting safety partners by collecting, analyzing, and using data to identify and address **FLORIDA-SPECIFIC NEEDS, AND** prioritize **STRATEGIC INVESTMENTS**.
- Employing a **HUMAN-FACTORS APPROACH** to mitigate human errors in a **SAFE SYSTEM APPROACH**.
- Establishing a **FLORIDA NETWORK** for resource and information **SHARING AMONG COMMUNITY PARTNERS**.



# HELP US REACH ZERO!

[target-zero-florida.pdf \(windows.net\)](#)



Clickable links on pdf



## JOIN FLORIDA'S TARGET ZERO NETWORK

- Participate in the development and implementation of Florida's Strategic Highway Safety Plan.
- ★ Access safety-related data, analysis tools, and dashboards in the **Safety Data Integration Space**.
- ★ Access extensive safety analysis of Florida's top safety challenges, to maximize resources.  
**See countermeasures to address Florida's top lane departure, pedestrian, and bicyclist safety challenges.**
- ★ Access over 100 FREE and pre-recorded **safety courses**, and receive announcements for upcoming safety courses.
- ★ Access **video, audio digital media, social media posts, print materials and more** to support community outreach and engagement.
- ★ Join one of Florida's statewide multiagency and multidisciplinary **Traffic Safety Coalitions**.



# THE SAFE SYSTEM APPROACH [target-zero-florida.pdf \(windows.net\)](https://www.floridadot.com/target-zero-florida.pdf)

## SAFE ROADS

- 🎯 Design and operate **SAFE ROADS** with context-based engineering criteria from the **FDOT Design Manual**, the **FDOT Traffic Engineering Manual**, and **more**.
- ★ 🎯 Obtain FHWA funding for safety infrastructure investments to achieve **SAFE ROADS** on all public roadways. See **The Highway Safety Improvement Program Guidelines** for eligibility.

## SAFE ROAD USERS

- 🎯 Promote **SAFE ROAD USERS** with **access** to video and audio digital media, social media posts, print materials, and more! See our **Annual Safety Calendar** for comprehensive access to resources.
- ★ 🎯 Develop **SAFE ROAD USERS** with funding for safety education and enforcement efforts! See **Traffic Safety Subgrants (fdot.gov)** for programs and eligibility.

## SAFE SPEEDS

- 🎯 Design for **SAFE SPEEDS** using speed management design criteria in **FDOT's Design Manual**.
- 🎯 Establish **SAFE SPEEDS** using **Florida's Speed Zoning Manual**.
- ★ 🎯 Enforce **SAFE SPEEDS** by obtaining **NHTSA funding for speed enforcement**.

## POST CRASH CARE

- 🎯 Access **POST CRASH CARE** resources with **additional enforcement grants**.

## SAFE VEHICLES

- 🎯 Advance **SAFE VEHICLES** by conducting research, developing, and testing emerging transportation technologies in safe and controlled environments at **Florida's SunTrax facility**.

★ Funding from FHWA and NHTSA described in a previous slide







# 2023 Florida Greenbook Training

**Training Host:**  
Florida LTAP Center

**Training Series:**  
Part 1: Tuesday, December 5<sup>th</sup> 2:00 PM – 4:00 PM  
Part 2: Tuesday, December 12<sup>th</sup> 2:00 PM – 4:00 PM

**Registration:**  
<https://floridaltp.org/2023FloridaGreenbook>

**Instructors:**  
Mary Anne Koos, CPM  
Jacqui Morris, ATD, CPM, CNU-A

This training series offers PDHs and AICP credits are being requested.



Manual of Uniform Minimum  
Standards for Design,  
Construction and Maintenance  
for Streets and Highways

*Commonly known as the*  
**Florida Greenbook**

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FDOT Office of Design  
Topic # 625-000-015

Date of Publication  
**2023 Edition**

Florida Greenbook



# Florida Greenbook Advisory Committee

## *Accepting Nominations*

**Seeking a Rural Representative for District 4**



Nominations for Advisory committee membership will be accepted through **December 6th at 5:00 PM EST.**

New Release:

# 2024 Office of Design Publications



## Office of Design Publications Released

2024 FDOT Design Manual

2024 Flexible Pavement Design Manual

2024 Drainage Manual

2024 Structures Manual

FY 24-25 Standard Plans for Road and Bridge Construction



Training webinars – *coming soon*



Access the publications by visiting:  
<https://www.fdot.gov/design/publicationslist.shtm>

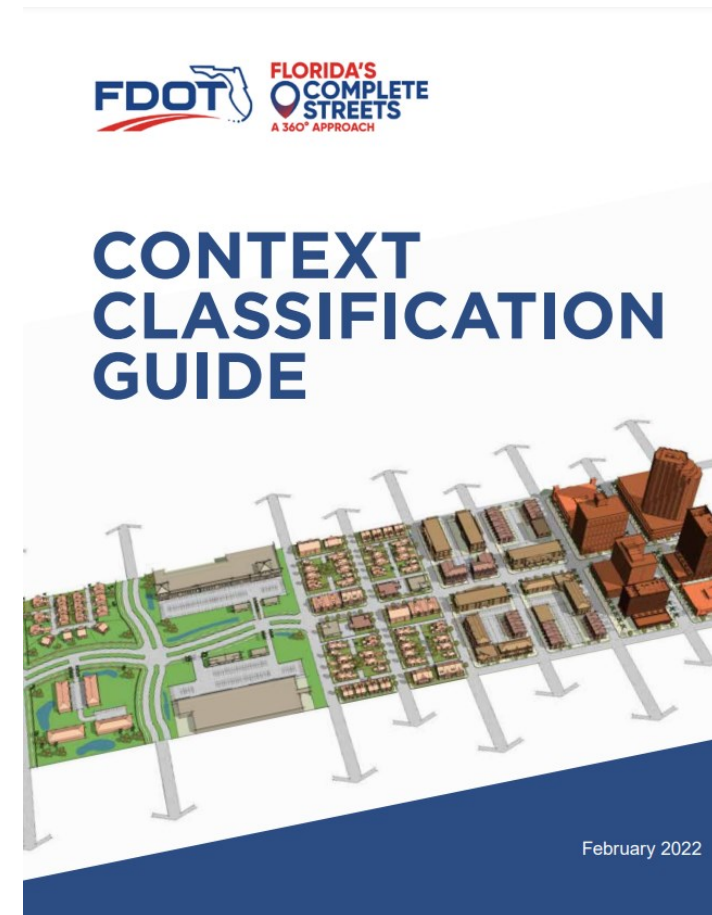


FDOT Update - FACERS Fall Meeting

# FDOT Context Classification Guide

**Coming soon!**

Update to include guidance  
for local roadways.





# **Program Application Cycles Posted in GAP**



# Safe Routes to School & Sun Trail

- [Safe Routes to School](#) call for applications September 1, 2024 – Workshop will be through Florida LTAP on August 29, 2024 1 PM-5 PM
- [SunTrail](#) Shared-Use Nonmotorized (SUN) Trail program's cycle is:  
September 27, 2023, and closes at 2:00 p.m., Eastern Standard Time (EST), December 20, 2023. Hard deadline.

# Transportation Alternatives Set-Aside program (TA)

- Transportation Alternatives Set-Aside Program (TA) cycles vary by region.
- As of Oct. 12, dates are listed below. If you have questions or need further clarification, contact the respective regions' [District TA-Coordinator](#).
- . District 1: To be determined and announced.
- . District 2: Oct. 2, 2023 – Jan. 16, 2024, by 2:00 p.m. Hard deadline.
- . District 3: Nov. 1, 2023 – Jan. 19, 2024. Hard deadline.
- . District 4: To be determined and announced.
- . District 5: To be determined and announced.
- . District 6: Nov. 6, 2023 – Dec. 6, 2023, by 5:00 p.m. Hard deadline.
- . District 7: To be determined and announced
- <https://www.fdot.gov/planning/systems/systems-management/tap>

# Highway Beautification Program

[Highway Beautification Program](#) Closed October 2, 2023. (14) applications were received. Application ranking is currently underway with final rankings from all reviewers due November 1<sup>st</sup>.

State Transportation Landscape Architect manages the program (Design Office).

Applicant	Highway	Highway Local Name
City of Clewiston	US 27 / SR 25	Sugarland Highway
City of Winter Haven	US 17 / SR 555	3rd Street SW
City of Port Saint Joe	SR 30	Monument Avenue
City of Tallahassee	US 27 / SR 363 / SR 61 / SR 20	Monroe Street
City of Tallahassee	US 27 / SR 363 / SR 61 / SR 20	Monroe Street
City of Oakland Park	SR 811	Dixie Highway
Town of Lantana	US Route 1	Dixie Highway
City of Miami Gardens	SR 817	NW 27th Avenue
Village of Miami Shores	US 1	Biscayne Boulevard
City of Lynn Haven	SR 77	Highway 77 / Ohio Avenue
Blueprint Intergovernmental Agency	US 27 / SR 63	N Monroe Street
City of Hollywood	511	US Highway 1
City of Hollywood	SR 5	US Highway 1
City of Miramar	858	Miramar Parkway



## 1. Green Mountain Scenic Byway, Inc.

### *Green Mountain Scenic Overlook and Trailhead 40' Tower Addition*

This project includes additional construction to an existing recreational facility along the Green Mountain Scenic Byway. The funds would be used to construct a second tower with an expanded deck 40 ft higher than the existing deck for enhanced viewing of Lake Apopka, the Lake Apopka North Shore Restoration Area, rocket launches from Cape Canaveral, as well as the Orlando skyline. The project will also include an elevator to comply with the Americans with Disabilities Act.

**Project Cost:** \$1,300,000 | **Match:** \$650,000 | **Grant Request:** \$650,000



Artist rendering of the completed addition to the Overlook at Lake Apopka

**FDOT FLORIDA SCENIC HIGHWAYS PROGRAM GREEN MOUNTAIN SCENIC BYWAY OVERLOOK**



Real Places.  
Real Stories.



# Local Programs General

## Local Programs Active Project Management FY 2022 and FY 2023 Comparison

Programs	Agreements Executed	Total Active Projects	Est. Dollar Value Active Projects
LAP (Federal-Aid)- FY 23	104	297	\$412,591,200
LAP (Federal-Aid)- FY 22	112	316	\$405,800,839
State Funded Grants- FY 23	169	463	\$1,025,101,660
State Funded Grants- FY 22	138	390	\$807,820,210
<b>All Programs- FY 23</b>	<b>273</b>	<b>760</b>	<b>\$1,437,692,860</b>
<b>All Programs- FY 22</b>	<b>250</b>	<b>706</b>	<b>\$1,213,621,049</b>

# FY 2023-24 General Appropriations Act (Chapter 2023-239, Laws of Florida)

- **\$13.6 billion for the State Transportation Work Program**
- \$400.7 million of the \$13.6 billion is earmarked by Specific Appropriation 2042A of the GAA for 132 Local Transportation Projects.



# Federal-Aid Highway Program Updates

# FHWA Focus Reviews Information

## Focus Reviews



U.S. Department of Transportation  
Federal Highway Administration

2020

- **LAP Construction Procurement**
- Rail-Highway Crossing
- Approved Products List (APL)
- Consultant Eval Grading System
- Contractor Past Perf. Rating
- **Buy America**
- Rejection of all Bids

2021

- Errors and Omissions
- **LAP Timeliness**
- District Compliance with CPAM
- Cost Estimate Reviews (CER) Timeliness
- Deficient Bridges
- Push Button Contracting Effectiveness
- Annual Change Order
- Single Bidder

2022

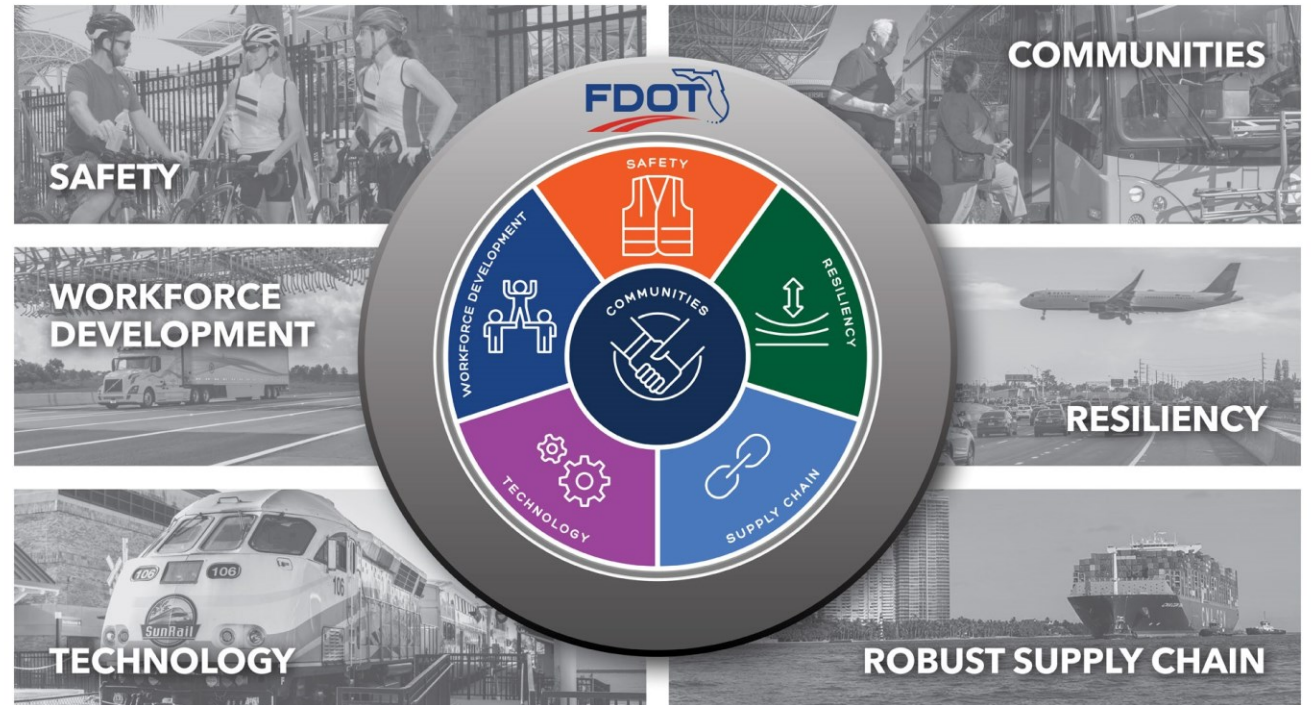
- CEI Invoicing
- Railroad Delays
- Project Commitments I
- Bridge Deck Pour
- MOT: Temporary Pedestrian Access
- **FHWA-1273**
- Fed-aid Eligibility Maintenance items
- MOT: Barrier Wall/Crash Cushion
- Design Exceptions

2023-24

- Change Order
- **Initial Authorization on ER Projects**
- MOT Safety Review
- Project Commitments II
- **Liquidated Damages**
- CEI - FDOT management of federal requirements
- **Project Closeout**
- **LAP Time Extensions**

# Partnering

- Safety Data for Florida's All Roads Base Map
  - Context Classification
  - Posted Speed
  - Shoulder type and width
  - Median type and width
- Future meeting information
  - Format
  - Coordination
- What challenges do you face? Barriers/speed bumps?





# Thank you!

November 14<sup>th</sup>, 2023

## National Seatbelt Safety Day

Protecting you and  
your loved ones:

Safety belt use reduces the  
risk of fatal injury by **45%**  
(NHTSA)



## Let's Get Everyone Home Safely



TargetZeroFL.com



## Contacts

If you have any questions, comments  
or suggestions please contact:

### ***Samantha Samford***

*State Local Program Administrator*

Email: [Samantha.Samford@dot.state.fl.us](mailto:Samantha.Samford@dot.state.fl.us)

Phone: (850) 414-4383

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