



BREVARD RAIL CROSSINGS RCE GRANT

COCOA CITY COUNCIL MEETING



Agenda

- Project Background/Overview
- Recommended Railroad Crossing Safety Enhancements
- Next Steps

Project Background

SCTPO and Partner Agencies are reviewing railroad crossing locations for safety enhancements

Study Objectives

- Evaluate potential safety enhancements based on existing conditions, safety effectiveness, and costs
- Recommend safety enhancements at crossing locations
- Prepare FRA Railroad Crossing Elimination (RCE) Grant Application for recommended safety enhancements



Project Schedule



Enhancement Types Considered

- FRA rates effectiveness of safety enhancements in reducing crashes vs a 2-Quadrant Gate System
- Four-Quadrant Gate Systems
 - With Medians at Crossings
 - 92% Effective at Reducing Crashes
 - Standalone Gates
 - 82% Effective at Reducing Crashes
- Traffic Channelization Devices
 - Non-Traversable Curb (Medians)
 - 80% Effective at Reducing Crashes
 - Flexible Delineators
 - 75% Effective at Reducing Crashes



Railroad Crossings South of SR 528



West Highlands Drive

Located in and maintained by City of Cocoa

- No Crashes with Railroad (2018-2023)
- Safety Enhancements Considered
 - Update to 4 Quadrant Gates with median on west side
 - 92% Effective at Reducing Crashes
 - \$810,000 Total Construction Cost
 - Update to 4 Quadrant Gates
 - 82% Effective at Reducing Crashes
 - \$705,000 Total Construction Cost



West Highlands Drive

Located in and maintained by City of Cocoa

- Safety Enhancements Considered
 - 3 Quadrant Gates (NW added) with median on east side
 - 80% Effective at Reducing Crashes
 - \$710,000 Total Construction Cost
 - 3 Quadrant Gates (NW added) with flexible delineators on east side
 - 75% Effective at Reducing Crashes
 - \$650,000 Total Construction Cost



Recommended Safety Enhancement

- West Highlands Drive: 4-Quadrant Gate System
 - \$705,000 Total Estimated Construction Costs
 - \$10,000/Year Estimated Annual Maintenance
 - ***\$141,000 Grant Local Match Requirement (20%)***

Remaining Grant Crossings

- Grant Crossings in Cocoa maintained by Brevard County
 - Michigan Avenue
 - Dixon Boulevard
- Brevard Board of County Commissioners Meeting held on 5/21
 - Approved including Michigan Avenue and Dixon Boulevard crossings in RCE Grant application

Michigan Avenue

*Located in Cocoa
Maintained by Brevard County*

- No Crashes with Railroad (2018-2023)
- Safety Enhancements Under Consideration
 - Update to 4 Quadrant Gates with median on west side
 - Update to 4 Quadrant Gates
 - 3 Quadrant Gates (SE added) with median on west side



Dixon Boulevard

*Located in Cocoa
Maintained by Brevard County*

- 1 Pedestrian Fatal Crash in 2020
- Recommended Safety Enhancement
 - Update to 4 Quadrant Gates



Next Steps

- FRA Railroad Crossing Elimination Grant Application
 - Notice of Funding Opportunity Release
 - Anticipated May 2024
 - Completion of Grant Application Materials
 - June-July 2024
 - Submittal of RCE Grant Application
 - July 2024



Questions/Contact Information

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