
MALABAR ROAD PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY

ST. JOHNS HERITAGE PARKWAY TO MINTON ROAD

FINANCIAL PROJECT IDENTIFICATION (FPID) NUMBER: 437210-1

Alternatives Public Meeting

Thursday, September 24, 2020 at 5:30 PM



LOCAL AGENCY PROGRAM (LAP) PROJECT

- Local Agency Program using federal funds
- Administered by City of Palm Bay
- Approved by FDOT

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by the Federal Highway Administration (FHWA) and the FDOT.

WELCOME ELECTED OFFICIALS!

- Acknowledgement of elected officials in attendance
- Welcome and opening remarks from elected officials

File View Help

Audio

Sound Check

Computer audio
 Phone call
 No audio

Microphone Array (Realtek High Defi...)

Speakers (Realtek High Definition Au...)

Talking: **Rusty Ennemoser**

Questions

[Enter a question for staff]

Send

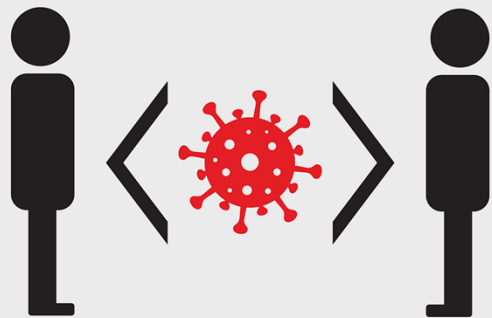
Control Panel
Webinar ID: 809-804-275

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GoToWebinar

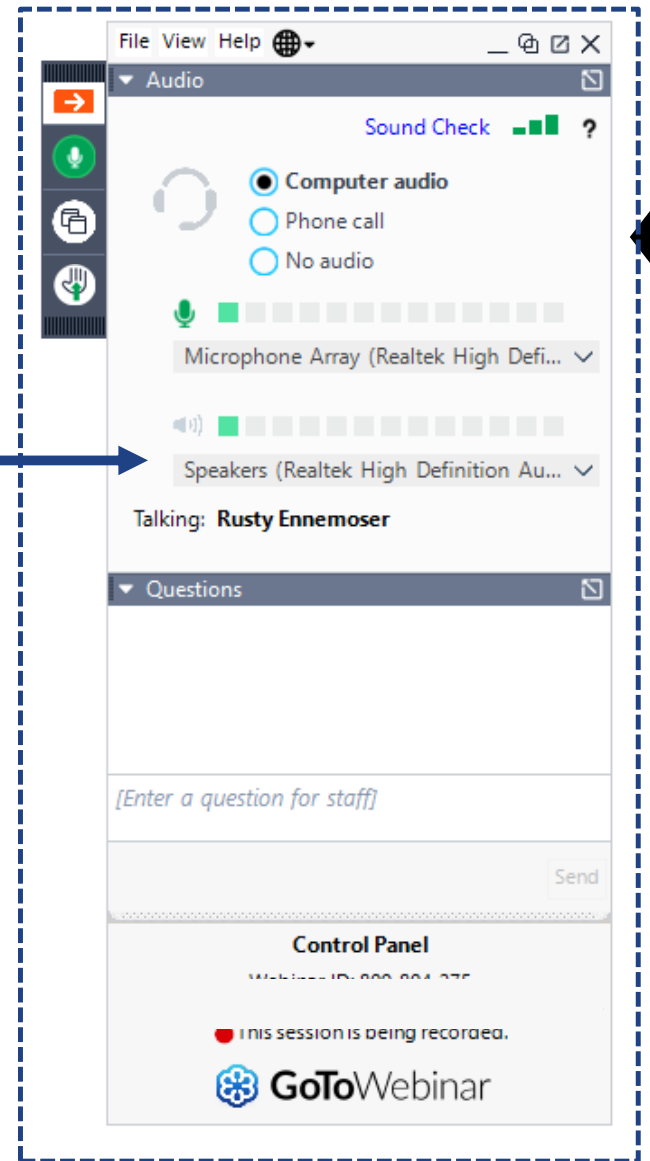


ABOUT THE VIRTUAL MEETING FORMAT

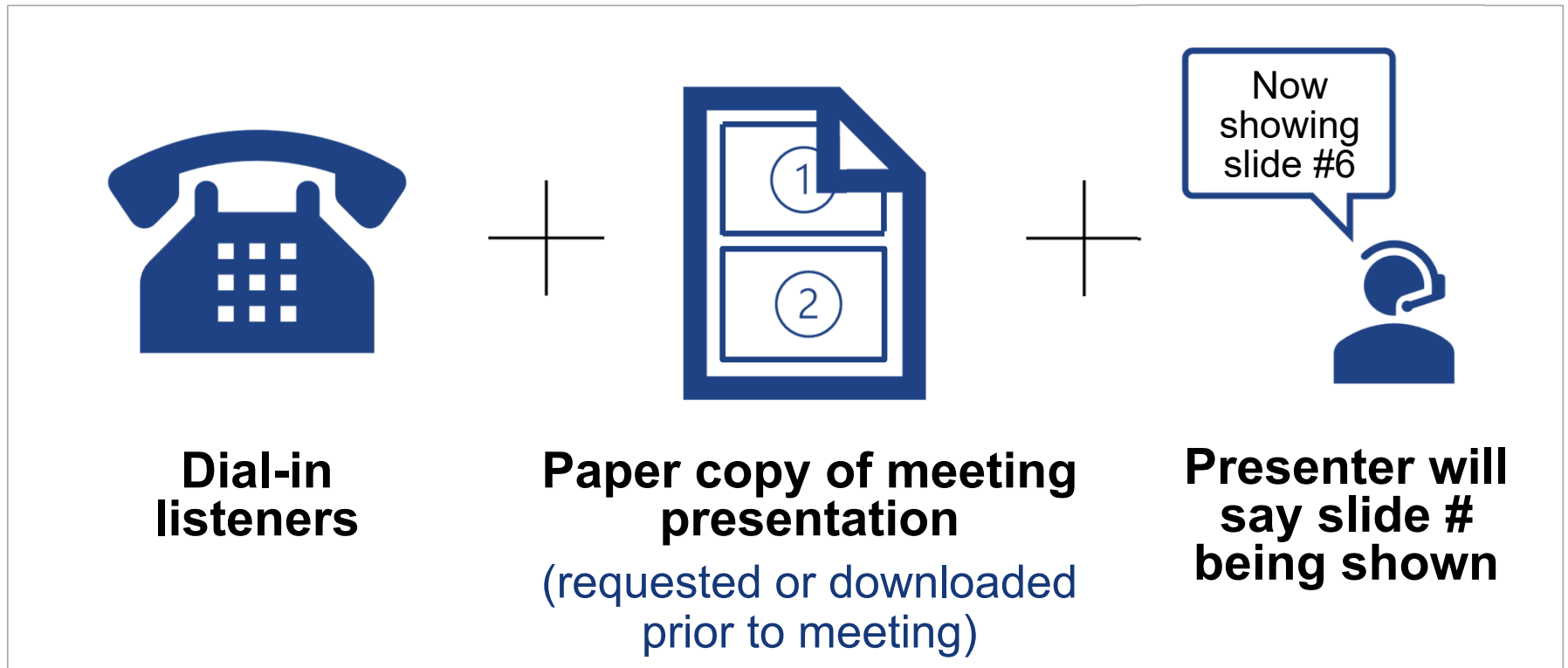


- A State of Emergency is in effect (Executive Order 20-52)
- COVID-19 pandemic
- GoToWebinar online meeting platform
- No cost to the public to log-in or dial-in to the meeting
- Webinar feed through the City's website:
<https://www.palmbayflorida.org/government/listen-watch-meeting>

TECHNICAL INFORMATION



TECHNICAL INFORMATION FOR DIAL-IN ATTENDEES



PUBLIC COMMENT



All attendees will be placed in **'Listen Only'** mode throughout the meeting.



Type your comments or questions in the control panel **Questions box**.



Responses to comments and questions will be provided in writing later.

The screenshot shows the GoToWebinar control panel interface. At the top, there is a menu bar with 'File', 'View', and 'Help'. Below it is the 'Audio' section, which includes a 'Sound Check' indicator and three radio button options: 'Computer audio' (selected), 'Phone call', and 'No audio'. There are also volume sliders for the microphone and speakers, and dropdown menus for 'Microphone Array (Realtek High Defi...)' and 'Speakers (Realtek High Definition Au...'. Below the audio settings, it says 'Talking: Rusty Ennemoser'. The 'Questions' section is highlighted with a blue bar and contains a text input field with the placeholder text '[Enter a question for staff]' and a 'Send' button. At the bottom, there is a 'Control Panel' section with a red dot indicating 'This session is being recorded.' and the GoToWebinar logo.



PUBLIC COMMENT AFTER TODAY'S MEETING



1. Obtain a printed public comment form from Palm Bay City Hall
2. Submit comment form in the following ways:

a) Via mail to the City's Consultant Project Manager Jack Freeman at 225 E Robinson St, Suite # 355, Orlando, Florida 32801

b) Via email to City's Consultant Project Manager Jack Freeman at jfreeman@kittelton.com

c) Deposited into comment box at Palm Bay City Hall's Community Meeting Room A (120 Malabar Road SE, Palm Bay, FL 32909)

i. **All public comments must be either postmarked or received by October 5th.**


3. Comment form on project website:
www.palmbayflorida.org/MalabarPDE



TECHNICAL INFORMATION (TECHNICAL ISSUES)



 This meeting is being recorded.



Type your issue in **Questions box** on the control panel.

MEETING PURPOSE



Outline

Outline the PD&E Study Process



Overview

Overview of Malabar Road PD&E Project



Present

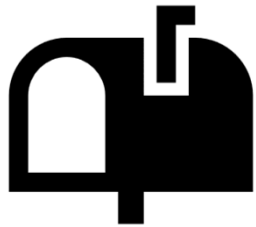
Present Proposed Alternatives and Evaluation



Provide

Provide Project Schedule and Contact Information

PUBLIC NOTICE



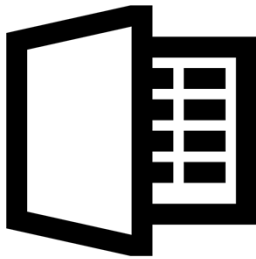
Property owner/tenant letters



Emails to project contacts list



www.palmbayflorida.org/MalabarPDE



Florida Administrative Register



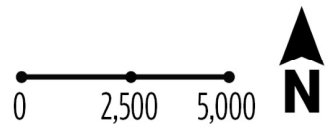
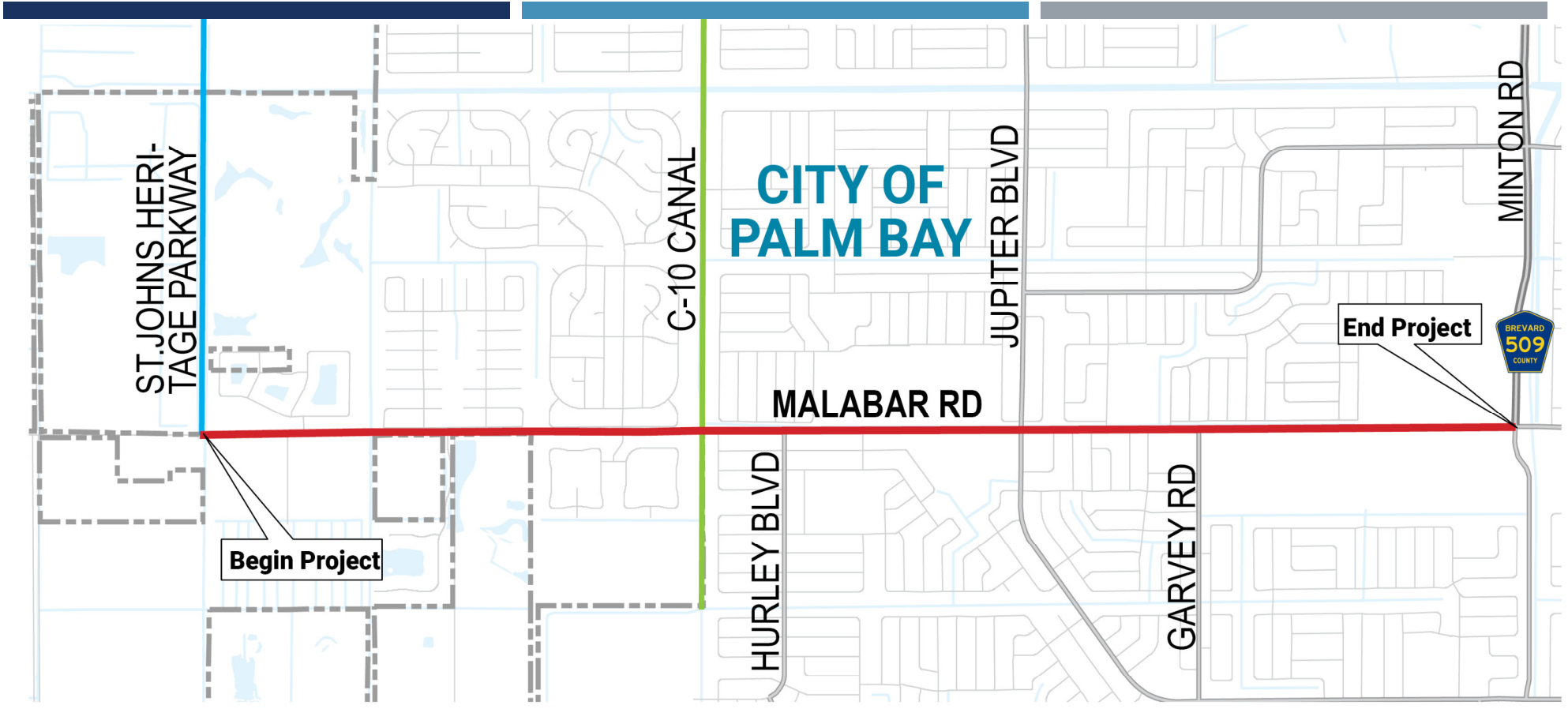
Newspaper – Florida Today

TITLE VI COMPLIANCE AND CONTACTS

Public participation in this meeting is solicited without regard to race, color, national origin, age, sex, religion, disability or family status.

Persons wishing to express concerns about Title VI may do so by contacting either:

Charleena Cox, MBA, IPMA-SCP
City of Palm Bay Director of Human Resources,
Title VI/Nondiscrimination, ADA Coordinator
120 Malabar Road SE
Palm Bay, FL 32907
321-950-3421 (x3241)

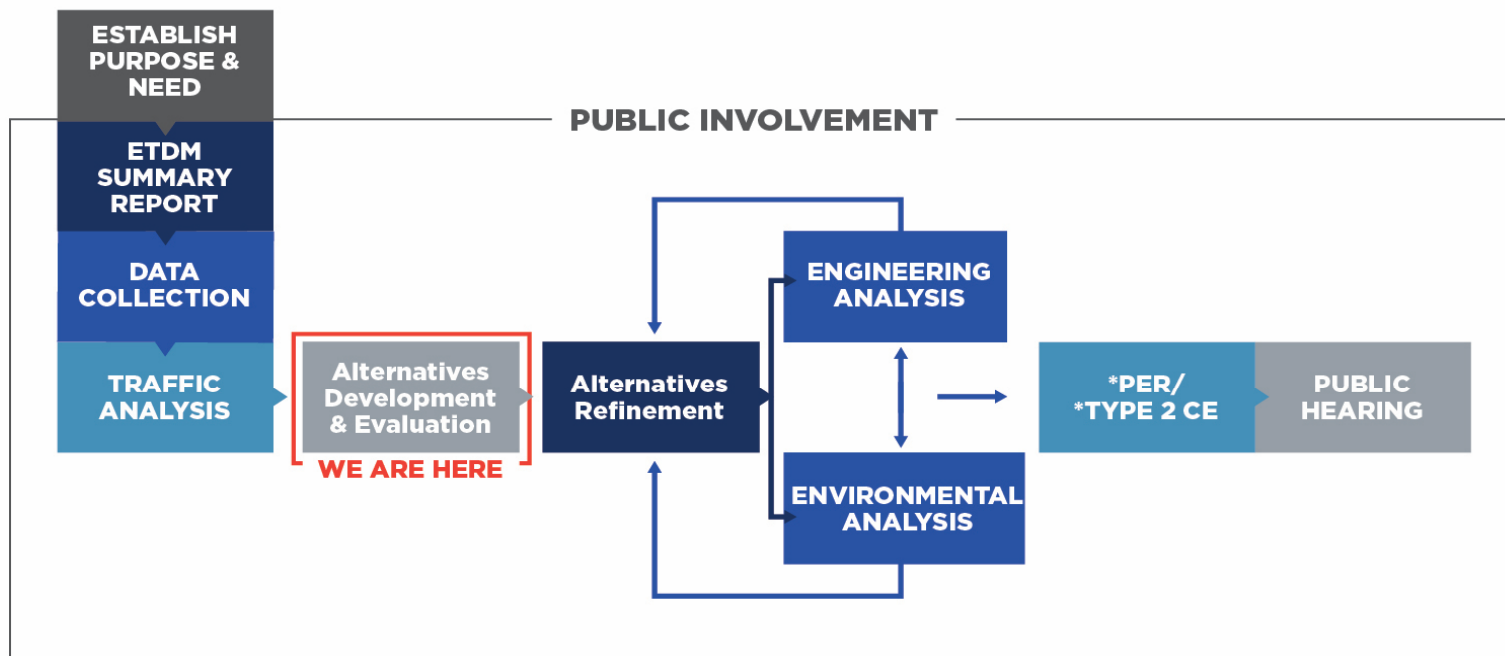


Legend

-  Project Limits
-  City Limits



PD&E STUDY PROCESS



*PER: Preliminary Engineering Report
*Type 2 CE: Type 2 Categorical Exclusion

APPROVAL

PROJECT OVERVIEW

- **Malabar Road From St. Johns Heritage Parkway to Minton Road– Brevard County**
- **Widening Alternatives**
 - Alternative A - Minimal Right-of-Way Alternative
 - Alternative B - Desirable Right-of-Way Alternative
- **Multimodal Features**
- **Safety Improvements**
- **Type 2 Categorical Exclusion**
 - Federal process being followed, and federal funds included



PURPOSE AND NEED

- The purpose of this project is to evaluate the need for capacity improvements (roadway widening), the addition of multi-modal features and addressing safety issues along the corridor.

- This project is needed to resolve issues related to:

- **Transportation Demand**

- Design year traffic exceeds target capacity

- **Safety**

- There were 621 crashes from 2015-2019
- There were no fatalities, but 181 of the total crashes were injury crashes

- **Multimodal Enhancements**

- Limited sidewalks along south side
- Transit stops without sidewalk access

- **System Linkage**

- Enhances St. Johns Heritage Parkway Access

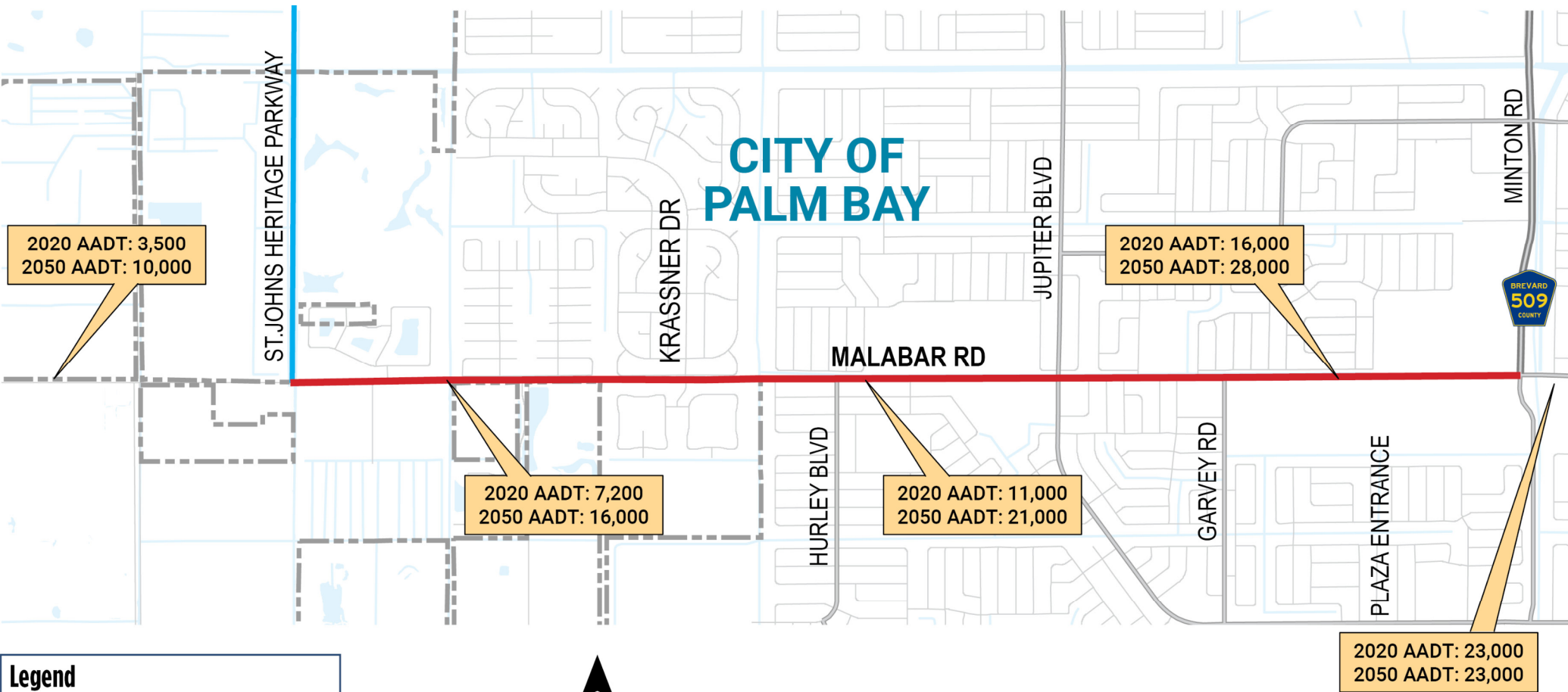


PURPOSE AND NEED (CONTINUED)

- This project is also needed to be consistent with local plans:
- **Plan Consistency**
 - Project is listed in the Space Coast Transportation Planning Organization (SCTPO) 5-Year Transportation Improvement Program (TIP) Fiscal Year 2019/20 – 2023/24 (FY2019 - 2023)
 - The 2040 Long-Range Transportation Plan (LRTP) Cost Feasible Plan
 - Preliminary engineering not yet funded in the 5-Year TIP

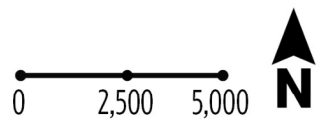


CITY OF PALM BAY



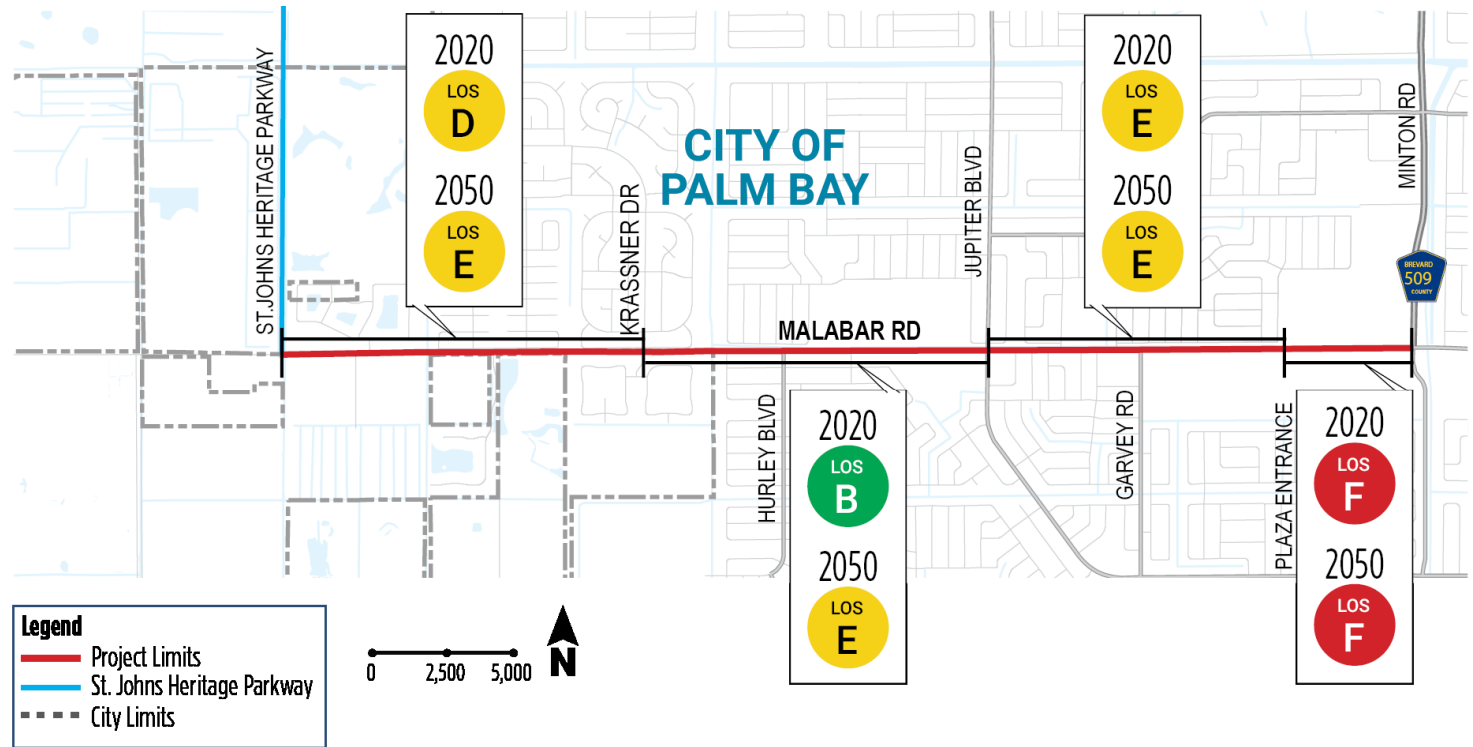
Legend

- Project Limits
- St. Johns Heritage Parkway
- City Limits

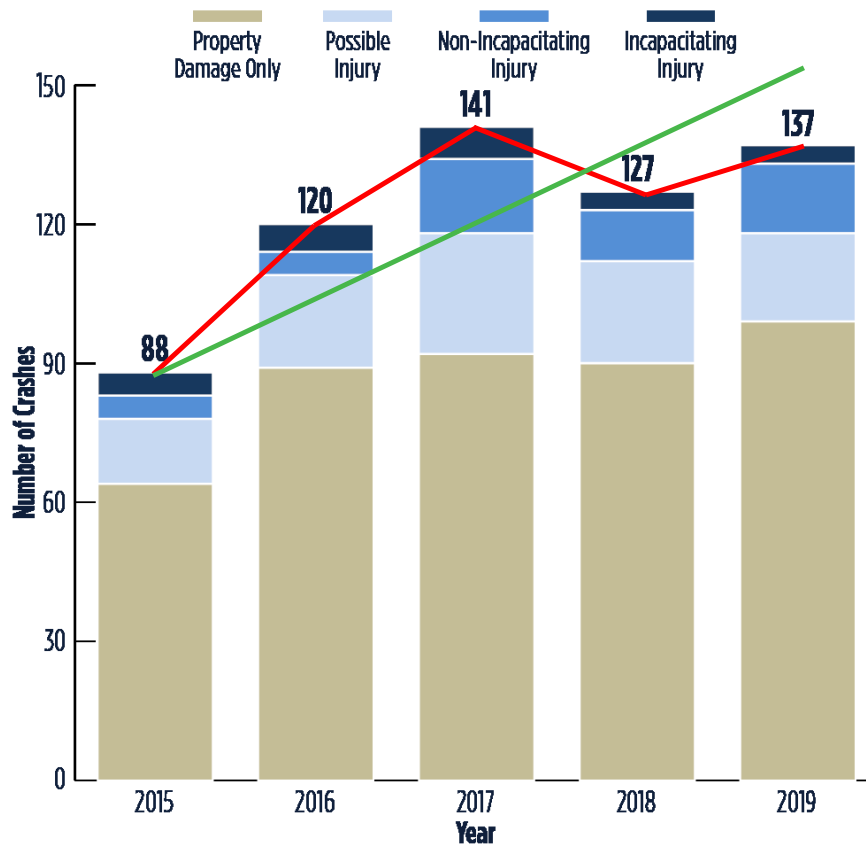


MALABAR ROAD “NO-BUILD” LEVEL OF SERVICE (LOS)

- Level of service (LOS) is used to evaluate traffic conditions
- Like grades in school, a letter is given to a roadway indicating its LOS, starting with “A” as best and ending with “F” as failing

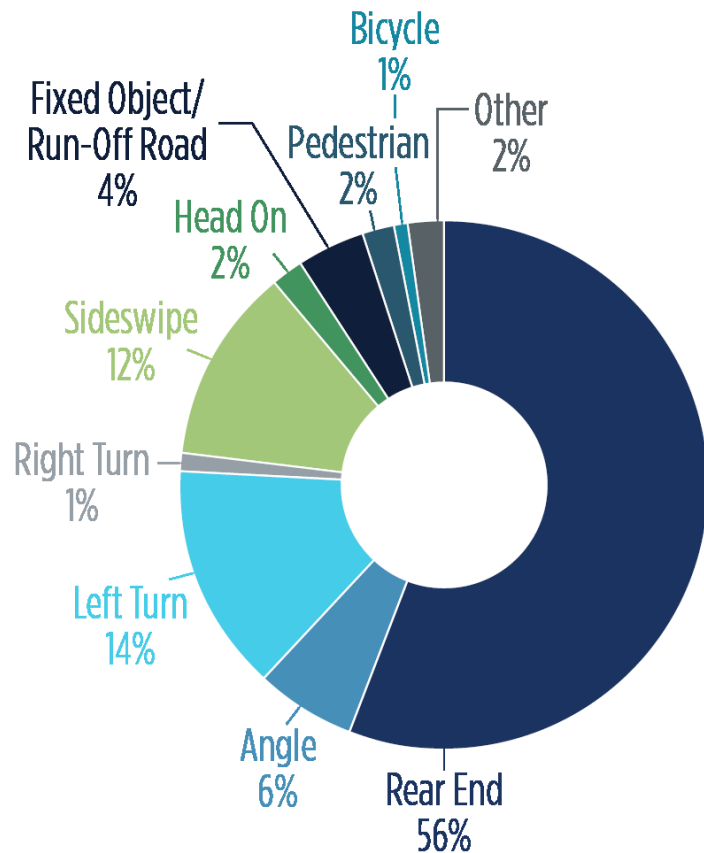


SAFETY - ANNUAL NUMBER OF CRASHES



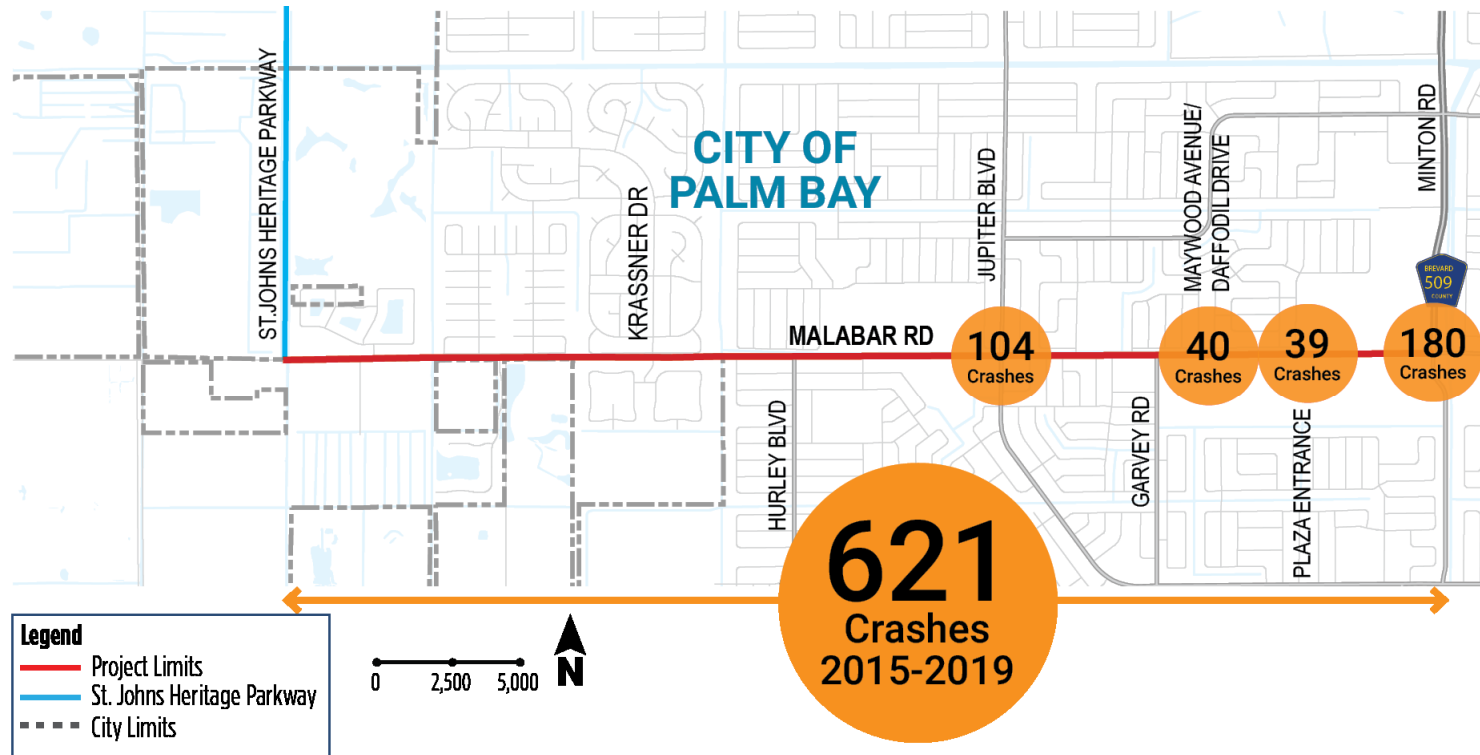
- Crashes increasing over past 5 years
- No Fatalities
- Injury crashes are increasing

SAFETY – CRASH TYPES



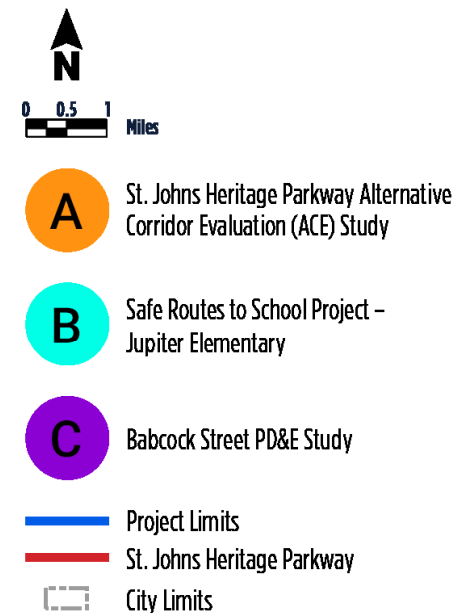
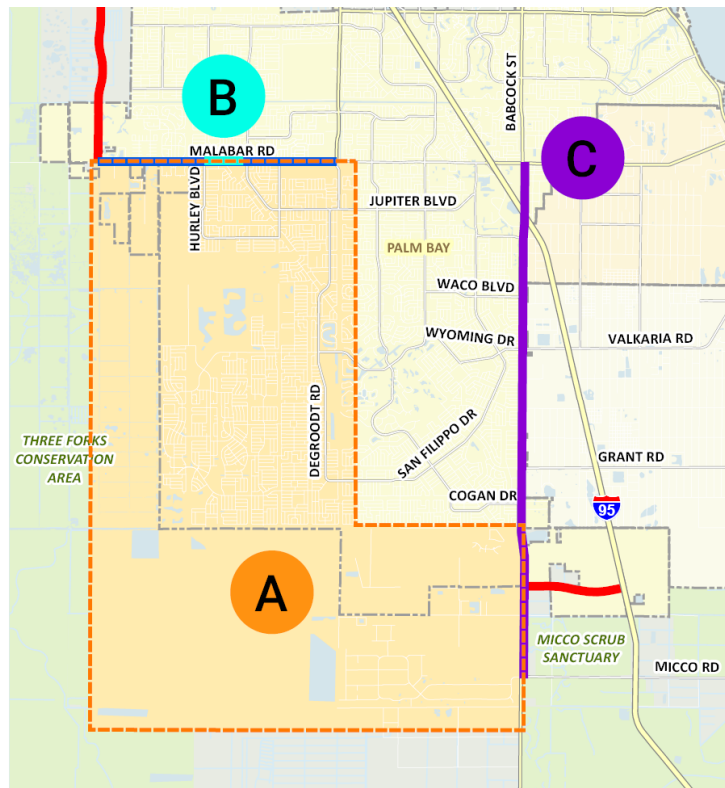
- Rear end more than 1/2 of all crashes
- Left turn, Sideswipe and Angle are nearly 1/3 of all crashes.
- Pedestrian and Bicycle - 3% of crashes

SAFETY - HIGH CRASH LOCATIONS



ONGOING NEARBY PROJECTS

- A. St. Johns Heritage Parkway Alternative Corridor Evaluation Study
 - Public Meeting will be held on October 22, 2020
 - Project Completion - Winter 2021
- B. Safe Routes to School Project – Jupiter Elementary
 - Adding sidewalk on Malabar Road from Hurley Boulevard to the United States Post Office driveway west of Jupiter Boulevard with construction later in 2020
- C. Babcock Street PD&E Study
 - This PD&E Study began in late 2017
 - Public Hearing Conducted
 - Project Completion – mid-2021

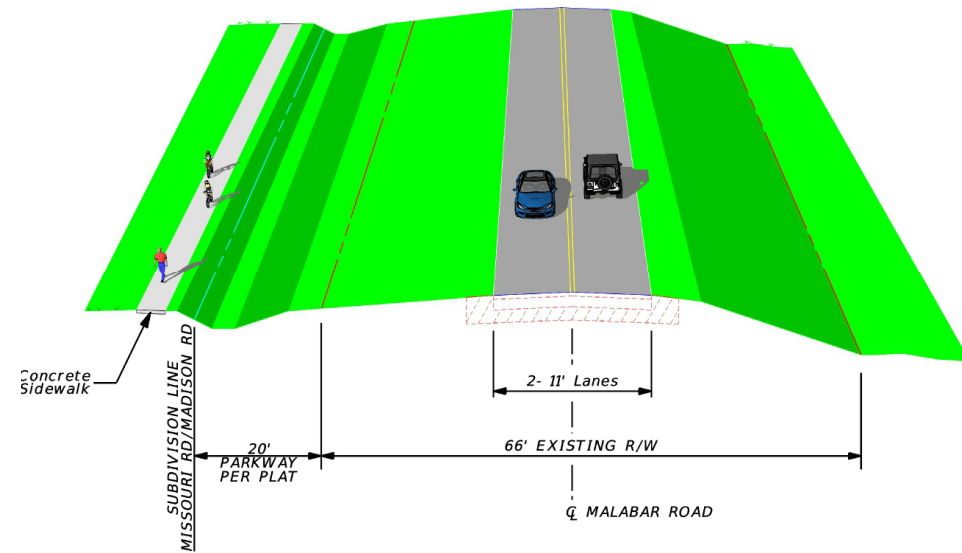
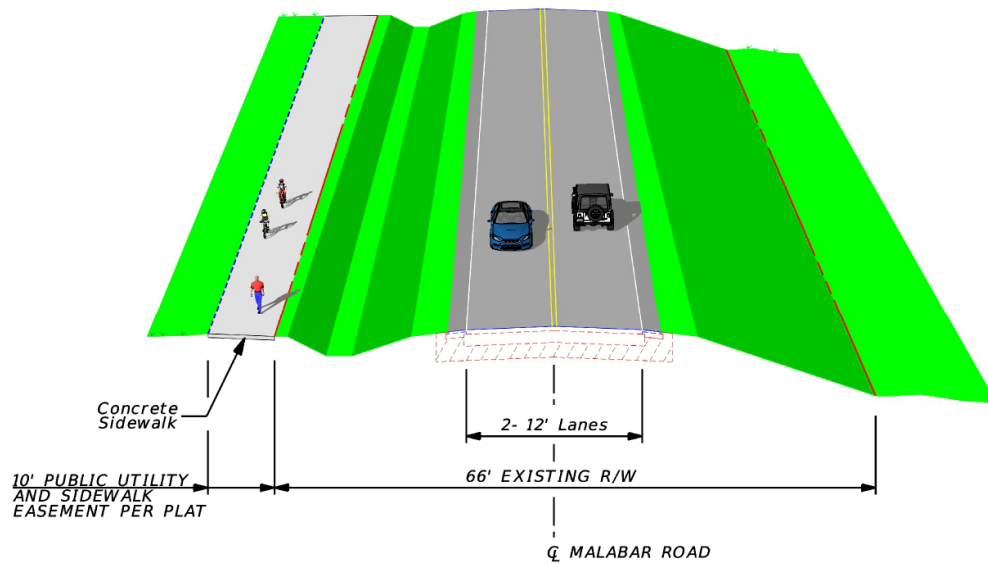


ENGINEERING ANALYSIS OVERVIEW

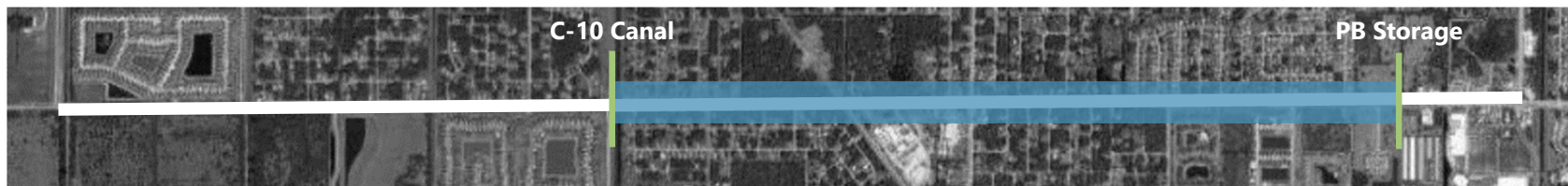
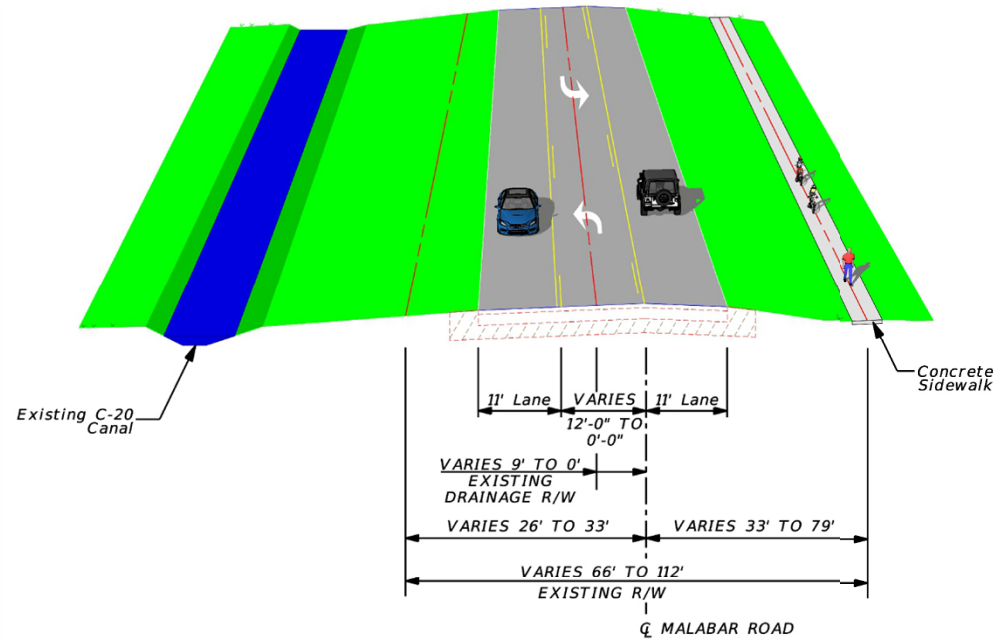
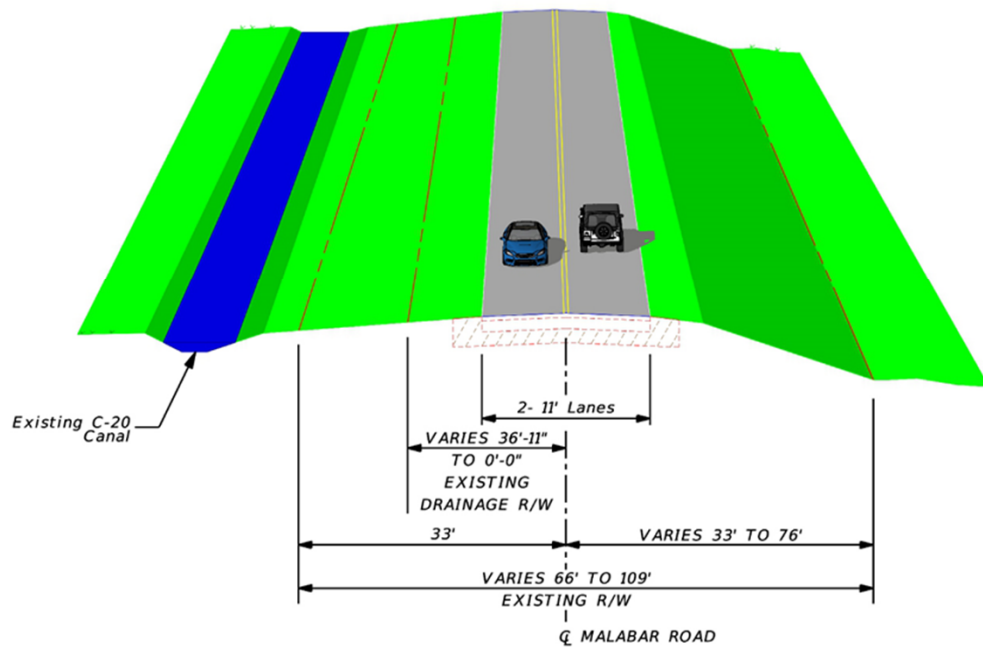
- **Roadway Concepts**
 - Generally 66' existing Right-of-Way
 - Alternative A - 89.5' Right-of-Way, 92.5' Right-of-Way at C-20 Canal
 - Alternative B - 100' Right-of-Way, 103' Right-of-Way at C-20 Canal
- **Right-of-Way**
- **Intersection Alternatives**
 - Evaluating signals and roundabouts at five different intersections
- **C-20 Canal Impacts**
- **New Bridge Over the C-10 Canal**
- **Traffic Operations / Safety**
 - Shared-Use Path Along the North Side of Malabar Road



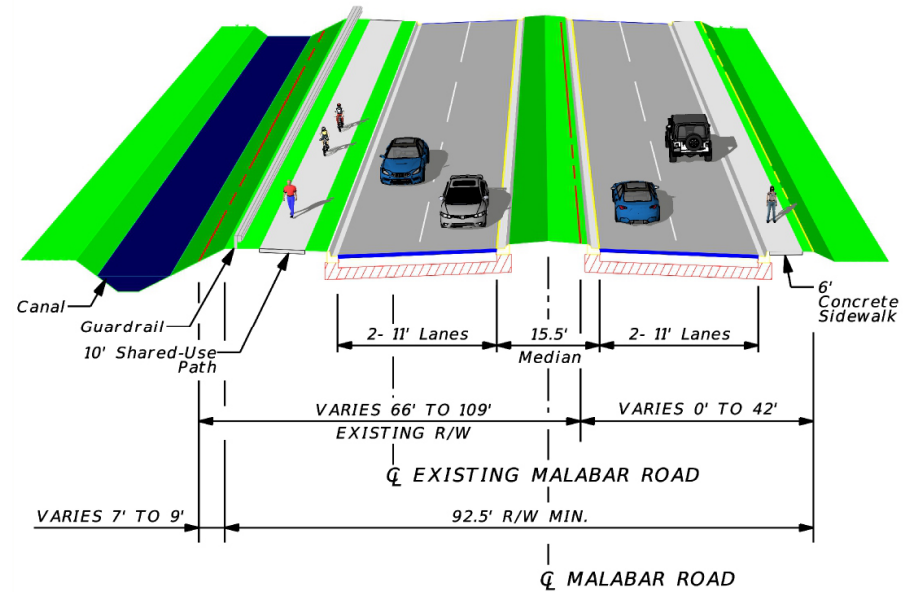
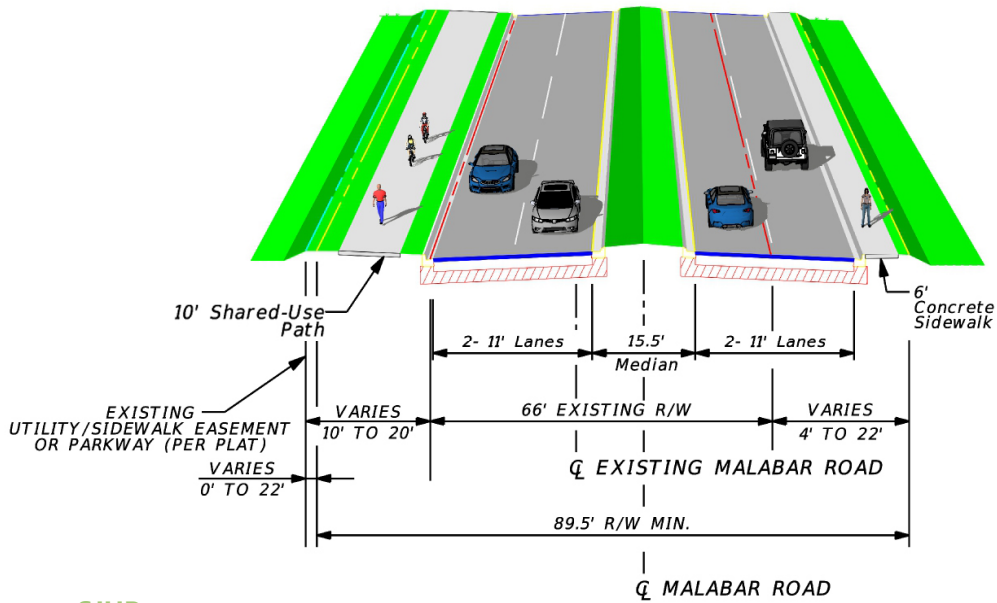
EXISTING TYPICAL SECTIONS



EXISTING TYPICAL SECTIONS



TYPICAL SECTIONS ALTERNATIVE A – MINIMUM RIGHT-OF-WAY



SJHP

C-10 Canal

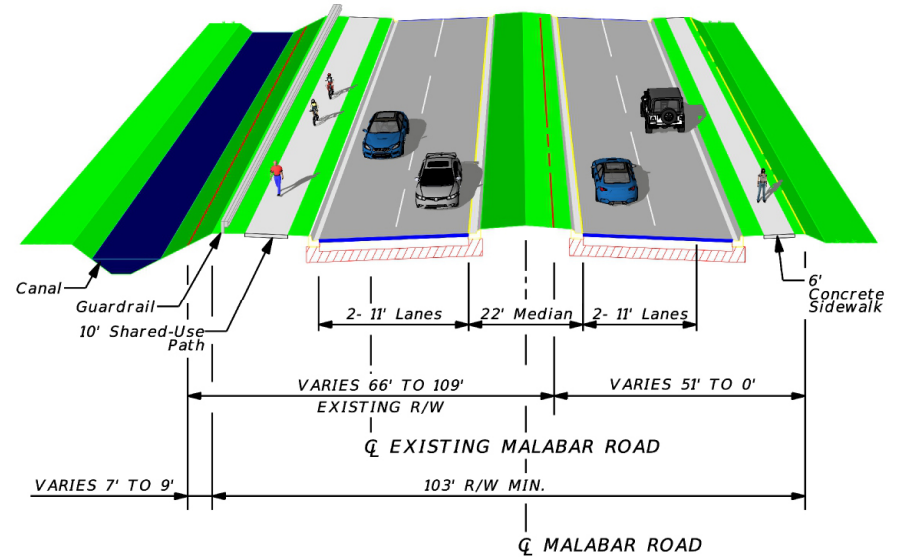
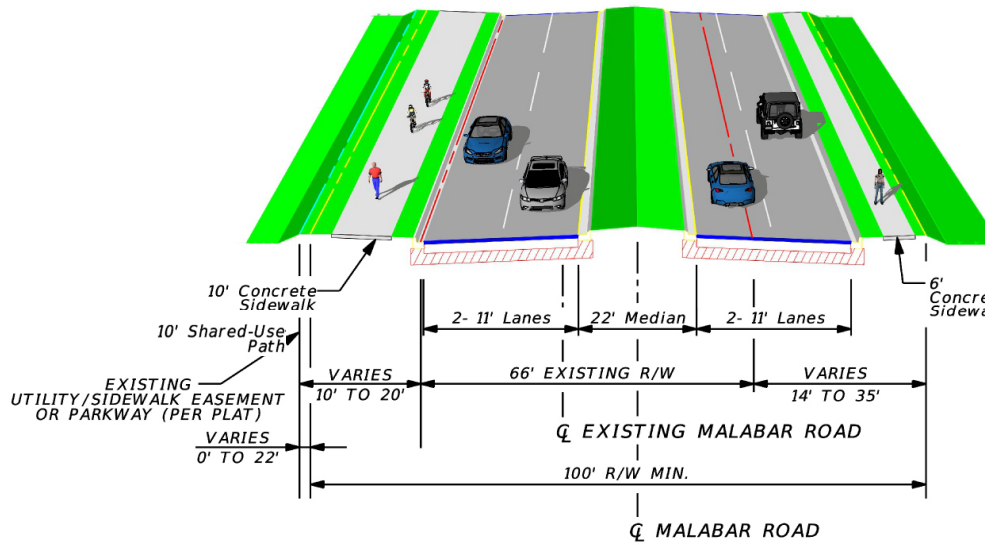


C-10 Canal

PB Storage



TYPICAL SECTIONS ALTERNATIVE B – DESIRABLE RIGHT-OF-WAY



SJHP

C-10 Canal



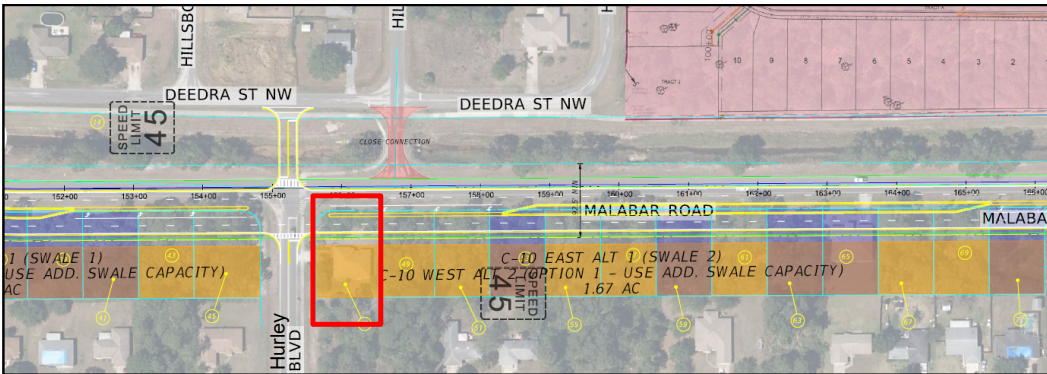
C-10 Canal

PB Storage

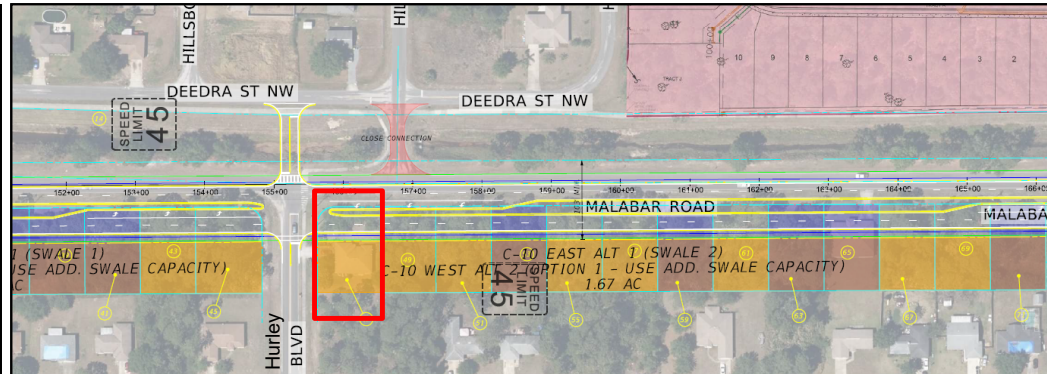


MINIMAL IMPACTS TO PROPERTY

Alternative A – Minimum Right-of-Way



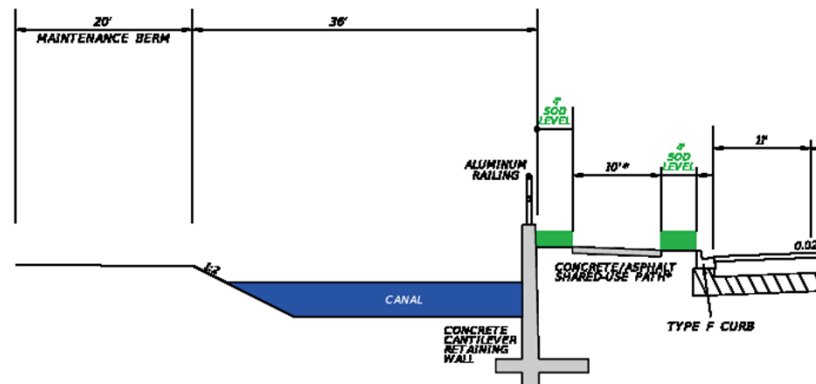
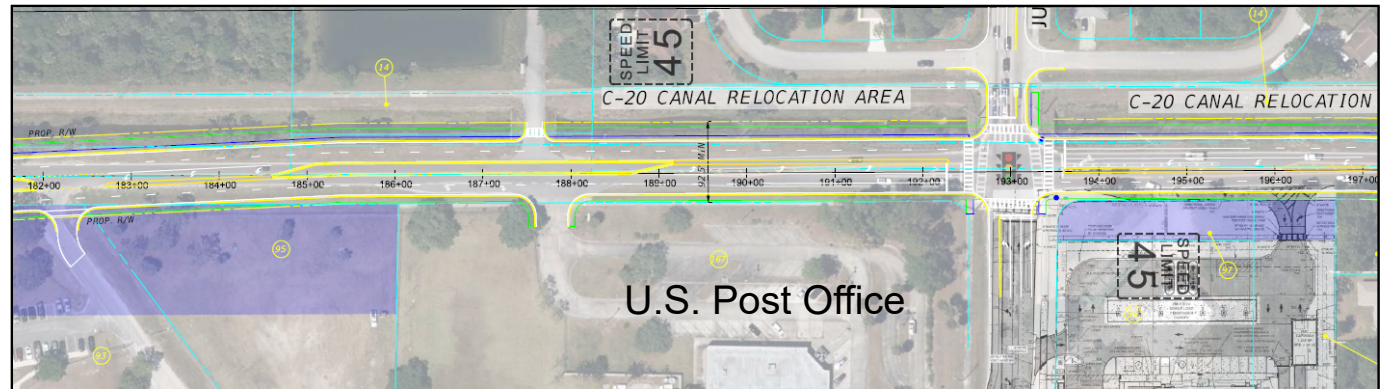
Alternative B – Desirable Right-of-Way



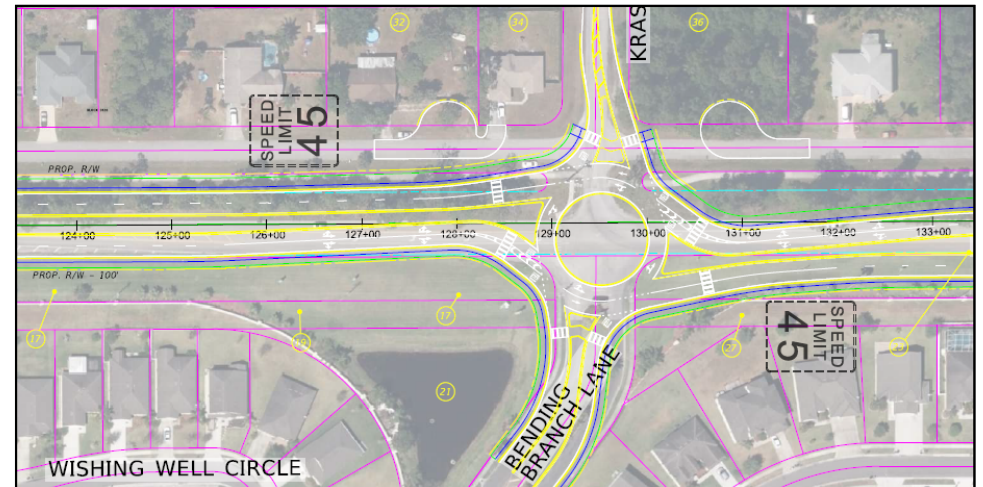
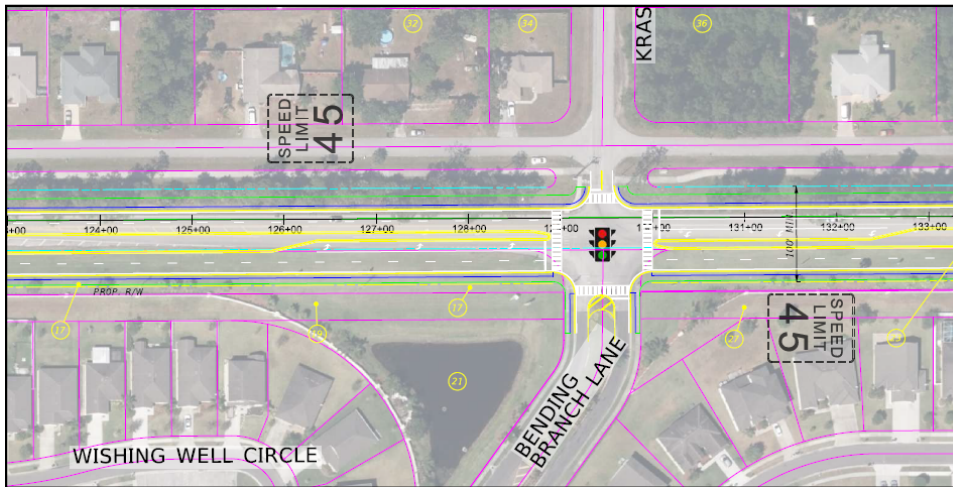
- **Right-of-Way**
 - 29 of the 94 parcels are owned by the City of Palm Bay
 - City acquired blue shaded parcels several years ago
 - One occupied dwelling unit impacted by both alternatives

SPECIAL ALIGNMENT CONSIDERATIONS AT JUPITER BOULEVARD

- No impacts to Post Office - Federal property
- Shifts widening into C-20 Canal
- Roadway Concepts
 - 92.5' Right-of-Way at C-20 Canal
- C-20 Canal Relocation
 - Approximately 2340' with signal
 - Approximately 1540' with roundabout



INTERSECTION ALTERNATIVES - SIGNAL OR ROUNDABOUT



- Signal
 - Less Right-of-Way
 - Less construction cost
 - Higher maintenance and operation costs
- Roundabout
 - Reduces corridor speeds
 - Enhances Intersection Safety
 - Improved traffic operations

INTERSECTION ALTERNATIVES - TRAFFIC OPERATIONS AND SAFETY

Intersection	No Build	Build				FI Crash Difference
	Stop Control/Signal	Signal		Roundabout		
	2050 LOS	2050 LOS	2050 FI crashes/yr	2050 LOS	2050 FI crashes/yr	
St. Johns Heritage Parkway	F	E	29.8	C	26.0	-13%
Bending Branch Lane	D	D	42.3	A	17.6	-58%
Hurley Blvd*	F	A	29.2	A	16.6	-43%
Jupiter Blvd	F	D	92.5	D	49.8	-46%
Garvey Road	F	B	46.6	C	23.6	-49%
Shopping Center	F	C	N/A	N/A	N/A	N/A
Minton Road	E	E	N/A	N/A	N/A	N/A

Legend:

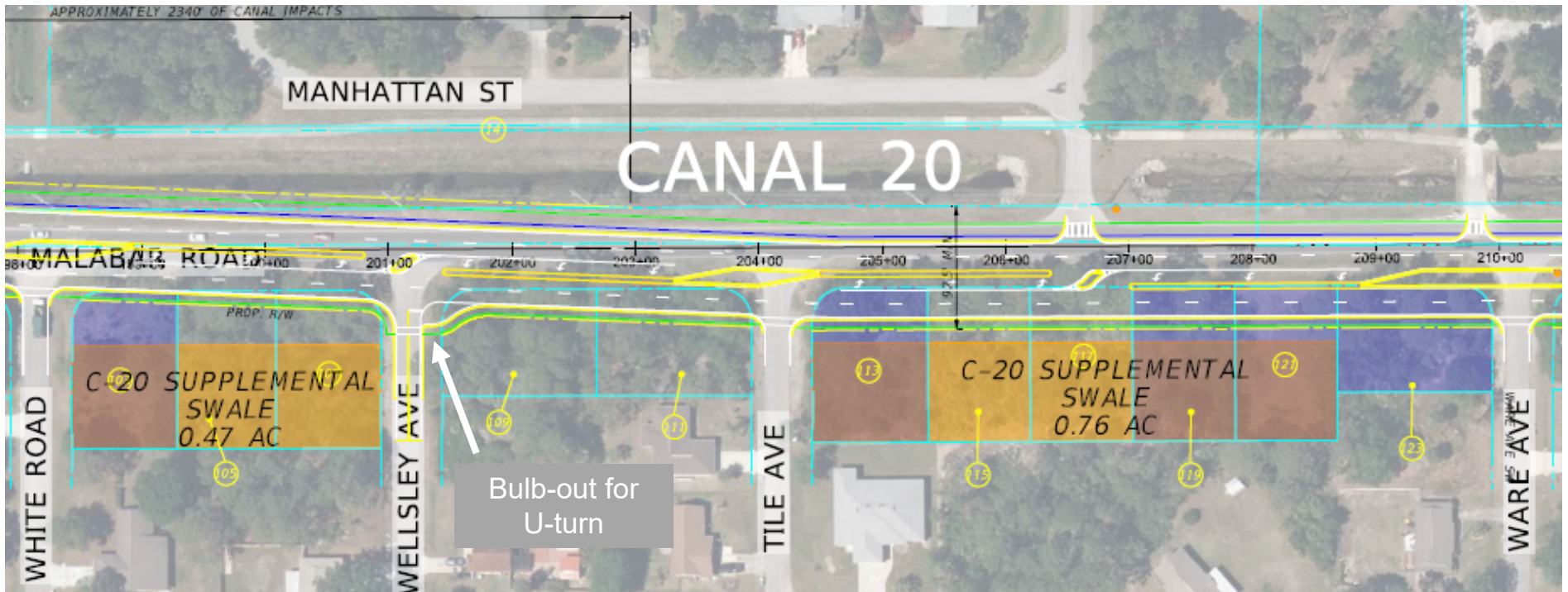
LOS - Level of Service

FI - Fatal and Injury

* Future unsignalized location

N/A - Roundabout not considered

ACCESS MANAGEMENT



COMPARATIVE EVALUATION MATRIX - ENGINEERING

Engineering Evaluation Criteria		No-Build Alternative	Alternative A 89.5'/92.5' Minimum Right-of-Way		Alternative B 100'/103' Desired Right-of-Way	
			With Traffic Signals	With Roundabouts	With Traffic Signals	With Roundabouts
PROJECT COSTS	Design Costs	\$0	\$7,900,000	\$8,800,000	\$8,000,000	\$9,100,000
	Wetland Mitigation Costs	\$0	\$60,000	\$60,000	\$60,000	\$60,000
	ROW Acquisition Costs (Without Ponds)	\$0	\$1,496,600	\$1,625,400	\$1,677,300	\$1,815,800
	Construction Costs	\$0	\$64,600,000	\$72,400,000	\$65,700,000	\$74,800,000
	Construction Engineering & Inspection Costs	\$0	\$9,700,000	\$10,900,000	\$9,900,000	\$11,200,000
	PRELIMINARY ESTIMATE OF TOTAL PROJECT COST	\$0	\$83,756,600	\$93,785,400	\$85,337,300	\$96,975,800

COMPARATIVE EVALUATION MATRIX - ENGINEERING

Engineering Evaluation Criteria		No-Build Alternative	Alternative A 89.5'/92.5' Minimum Right-of-Way		Alternative B 100'/103' Desired Right-of-Way	
			With Traffic Signals	With Roundabouts	With Traffic Signals	With Roundabouts
TRAFFIC, SAFETY, AND UTILITIES	Intersection Operations ¹	1 @ LOS2 D 4 @ LOS F	1 @ LOS A 1 @ LOS B 2 @ LOS D 1 @ LOS E	2 @ LOS A 2 @ LOS C 1 @ LOS D	1 @ LOS A 1 @ LOS B 2 @ LOS D 1 @ LOS E	2 @ LOS A 2 @ LOS C 1 @ LOS D
	Intersection Safety ¹	N/A	10% More Total Crashes and 45% More Fatal & Injury Crashes than Roundabout	10% Less Total Crashes and 45% Less Fatal & Injury Crashes than Signal	10% More Total Crashes and 45% More Fatal & Injury Crashes than Roundabout	10% Less Total Crashes and 45% Less Fatal & Injury Crashes than Signal
	Roadway Segment Safety	35% to 40% Higher Crashes vs Build	35% to 40% Lower Crashes vs No-Build		35% to 40% Crash Reduction vs No-Build	
	Potential Utility Impacts	None	Moderate	High	Moderate	High

¹ Intersections included St. Johns Heritage Parkway, Krassner Dr., Hurley Blvd., Jupiter Blvd., and Garvey Rd.

² LOS = Level of Service

NATURAL ENVIRONMENT EVALUATIONS

- Wetland Impacts
 - Alternative A - 2.32 AC – Surface Water Only
 - Alternative B – 2.35 AC – Surface Water Only
- Floodplains
 - Alternative A: 1.26 ac-ft
 - Alternative B: 1.41 ac-ft



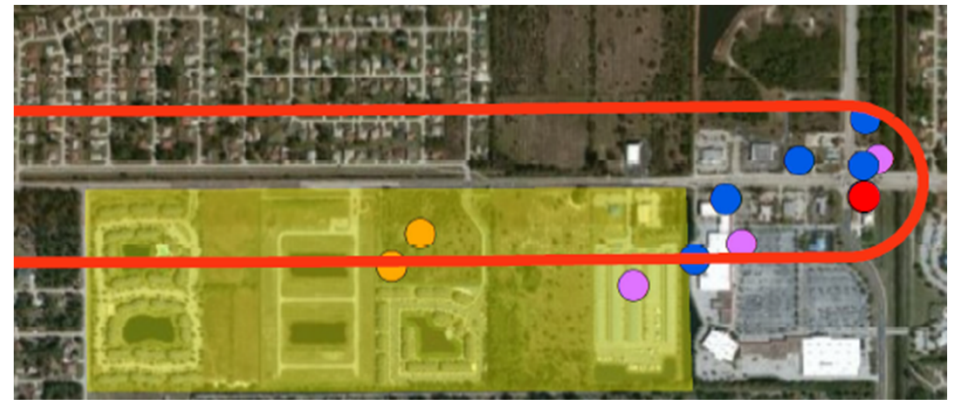
NATURAL ENVIRONMENT EVALUATIONS

- Wildlife – Threatened & Endangered Species
 - Florida Scrub Jay Survey – No birds
 - Audubon Crested Caracara Survey – Two nests
 - Minor impacts to secondary zone
 - Wood Stork, Florida Sandhill Crane and State-listed wading birds
 - Observed in corridor
 - Gopher Tortoise and Eastern Indigo Snake
 - Suitable habitat present
 - Natural Resource Evaluation to be conducted



PHYSICAL ENVIRONMENT EVALUATIONS

- Noise Impacts
 - Alternative A – narrower right-of-way, lower noise levels
 - Alternative B – Slightly higher than Alt. A
 - Noise Study to be conducted
- Contamination – Sites Along Corridor
 - Agricultural Land Use – citrus/cattle
 - 8 Petroleum Tank sites – 1 w/Contamination
 - 5 Hazardous Material sites
 - 2 Solid Waste/Disaster Debris sites
 - 1 Arsenic Groundwater Contamination Plume @
2 sites



Legend

- Petroleum tank sites
- Petroleum tank site with contamination
- Hazardous material sites
- Arsenic groundwater contamination plume sites
- Study Area
- Agricultural study area

COMPARATIVE EVALUATION MATRIX - ENVIRONMENTAL

Environmental Evaluation Criteria		No-Build Alternative	Alternative A 89.5'/92.5' Minimum Right-of-Way		Alternative B 100'/103' Desired Right-of-Way	
			With Traffic Signals	With Roundabouts	With Traffic Signals	With Roundabouts
SOCIAL ENVIRONMENT	Social Resources Degree of Impact from ETDM*	None	Enhanced to Moderate		Enhanced to Moderate	
	ROW Take Area (acres)(Without Ponds)	None	11.43	11.64	14.52	15.18
	Parcels Impacted (#)(Without Ponds)	None	94	99	92	100
	Residential Relocations (#)	None	1	1	1	1
NATURAL ENVIRONMENT	Natural Resources Degree of Impact from ETDM*	None	Moderate		Moderate	
	Wetland Impacts (acres)	None	0.5	0.5	0.5	0.5
	Surface Water Impacts (acres)	None	2.32	2.32	2.35	2.35
	Floodplain Impacts (acres)	None	1.26	1.26	1.41	1.41
	Potential Threatened & Endangered Species Impacts	None	Moderate		Moderate	

* ETDM - Efficient Transportation Decision Making

COMPARATIVE EVALUATION MATRIX - ENVIRONMENTAL

Environmental Evaluation Criteria		No-Build Alternative	Alternative A 89.5'/92.5' Minimum Right-of-Way		Alternative B 100'/103' Desired Right-of-Way	
			With Traffic Signals	With Roundabouts	With Traffic Signals	With Roundabouts
CULTURAL ENVIRONMENT	Natural Resources Degree of Impact from ETDM*	None	Minimal		Minimal	
	Historic Resources Potentially Impacted (#)	None	2	2	2	2
	Cultural Resources Potentially Impacted (#)	None	No registered resources; one zone of High Cultural Sensitivity	No registered resources; one zone of High Cultural Sensitivity	No registered resources; one zone of High Cultural Sensitivity	No registered resources; one zone of High Cultural Sensitivity
PHYSICAL ENVIRONMENT	Physical Resources Degree of Impact from ETDM*	None	Minimal to Moderate		Minimal to Moderate	
	Medium Risk Contamination Sites Impacted (#)	None	11	11	11	11
	Noise Impacts	None	Residential impacts likely	Same residential impacts Slight noise increase to adjacent properties	Potential for slightly more residential impacts	Same residential impacts Slight noise increase to adjacent properties

* ETDM - Efficient Transportation Decision Making



- The project is scheduled to complete in early 2023
- The next phase in the project development process, final design, is not yet funded not yet scheduled

PUBLIC COMMENT AFTER TODAY'S MEETING



1. Obtain a printed public comment form from Palm Bay City Hall
2. Submit comment form in the following ways:

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b) Via email to City's Consultant Project Manager Jack Freeman at jfreeman@kittelton.com

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- i. **All public comments must be either postmarked or received by October 5th.**

3. Comment form on project website:
www.palmbayflorida.org/MalabarPDE



PUBLIC COMMENT PERIOD

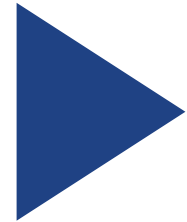
Please submit your comments by Monday, October 5, 2020



Responses to comments and questions will be provided later.



All comments and questions are part of the **Public Record**.



All registrants will receive a link to the **meeting recording**, which will also be posted on the project website.

CONTACT INFORMATION

- If you have questions or comments about the project, please contact the City's Consultant Project Manager Jack Freeman by telephone at 407-373-1103 or by email to jfreeman@kittelson.com.
- Additional information can also be found on the project website at www.palmbayflorida.org/MalabarPDE.



THANK YOU!



The City of Palm Bay thanks you for attending the Malabar Road PD&E Alternatives Public Meeting!

We appreciate your participation and input.



From Floridatoday.com

