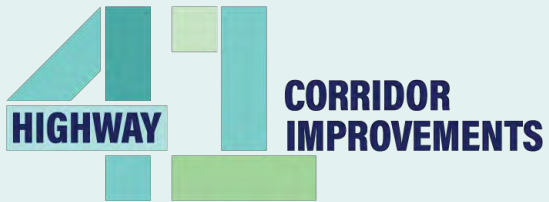


Highway 41 Project Briefing

September 2020



Topics for Discussion

- 1 Overview of Preferred Alternative
- 2 Review of Alternative Screening Process
- 3 Alternatives 1 vs. 7a Comparison
- 4 Discuss community mitigation
- 5 Path Forward

Video



Proposed Alternative

Widening Existing Highway 41 (Alternative 1)



PROPOSED ALTERNATIVE HIGHLIGHTS



Greatest improved traffic times



Lowest overall project cost



Less effects from noise

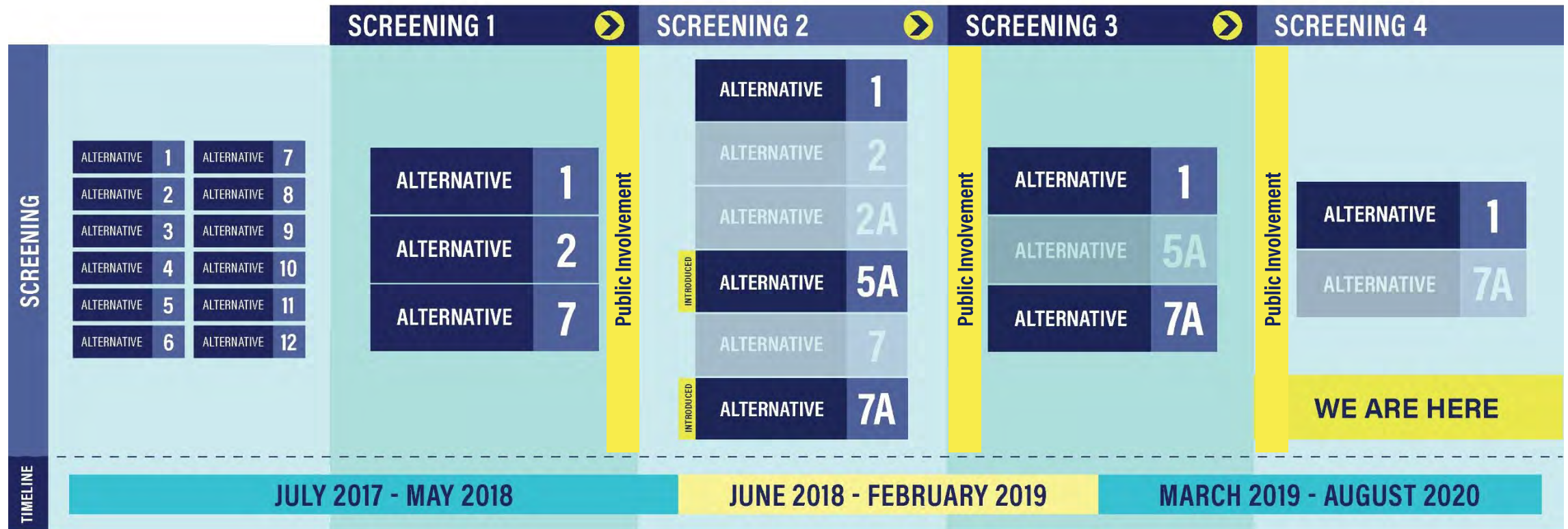


Fewest impacts on wetlands



Fewer impacts on Laurel Hill County Park

Alternatives Screening Process



May 2018 Alternatives Open House Comment Summary

SCREENING 1

283 Attendees
(May 16, 2018)

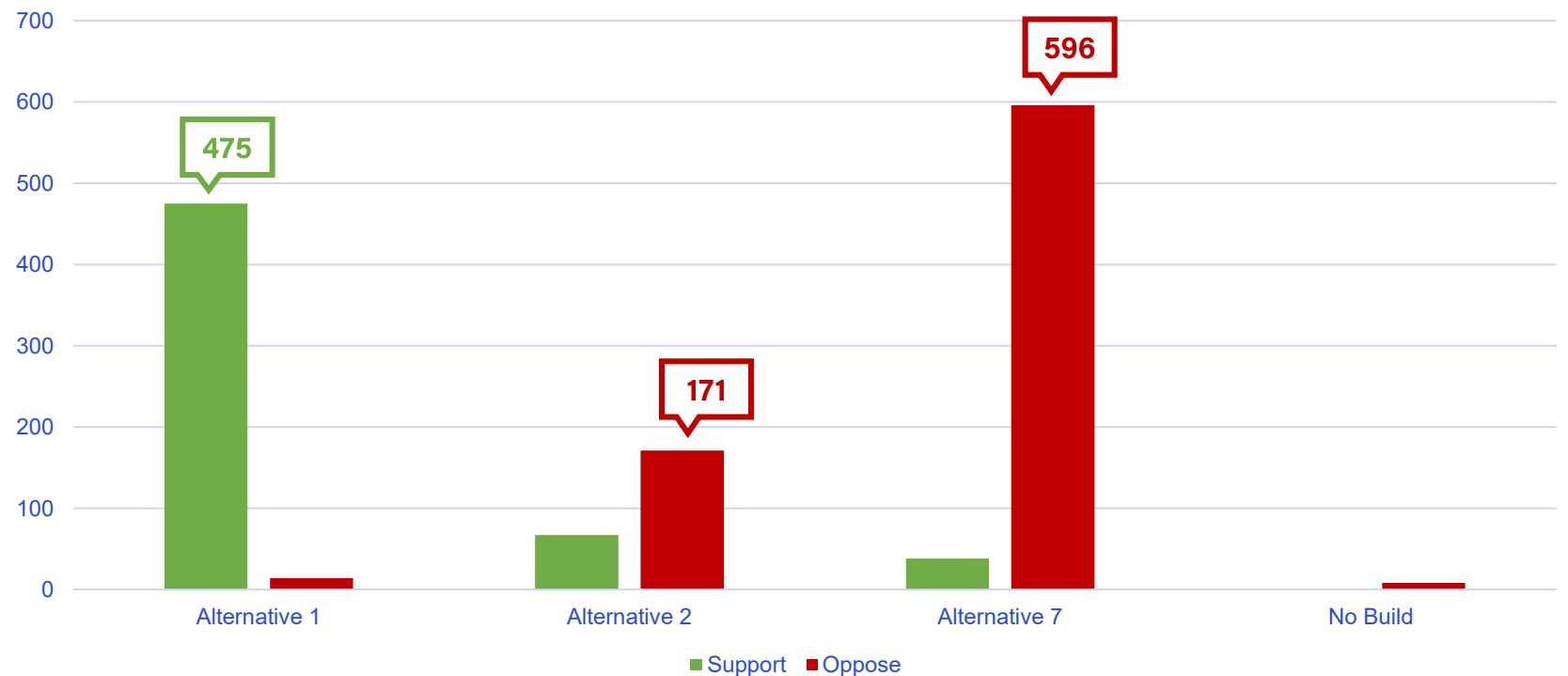
1,911 Online Meeting Visitors
(May 16 - June 16)

1,248 Total Comments Received
During the 30-Day
Comment Period

ALTERNATIVE 1

ALTERNATIVE 2

ALTERNATIVE 7



Comments on Alternatives: November - December 2018

SCREENING 2

175 Comments

ALTERNATIVE 1

ALTERNATIVE 2

ALTERNATIVE 2A

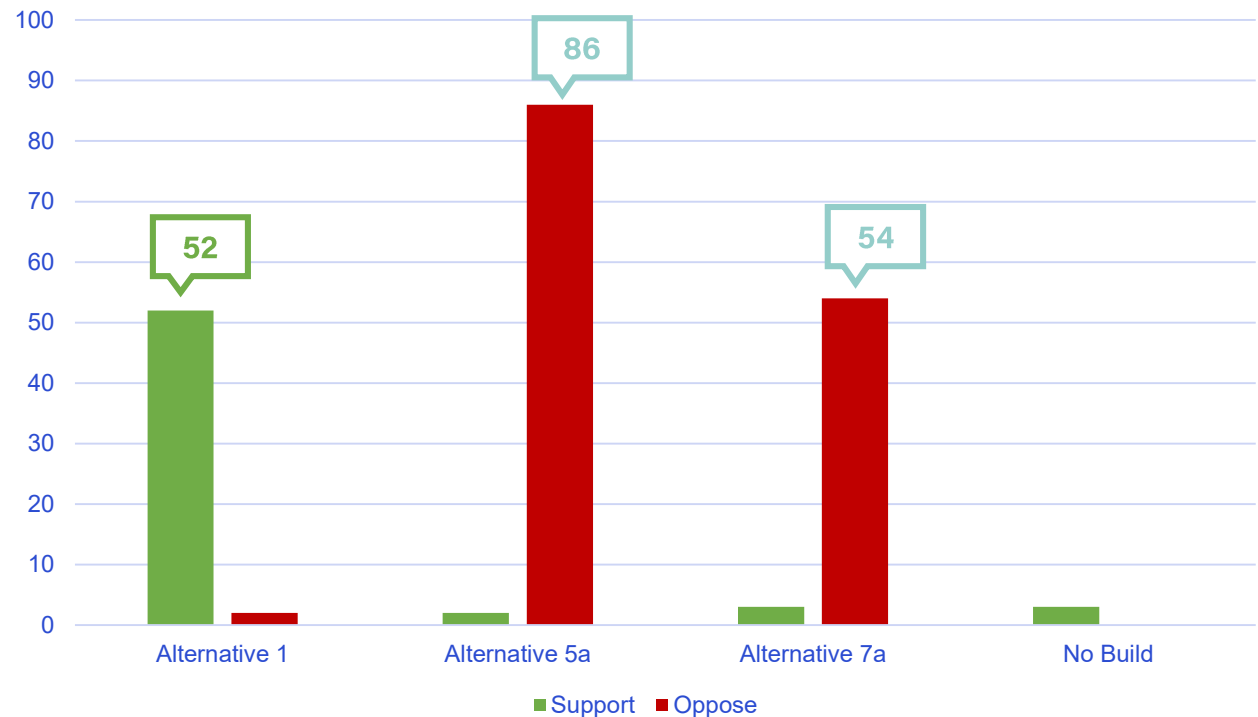
INTRODUCED

ALTERNATIVE 5A

ALTERNATIVE 7

INTRODUCED

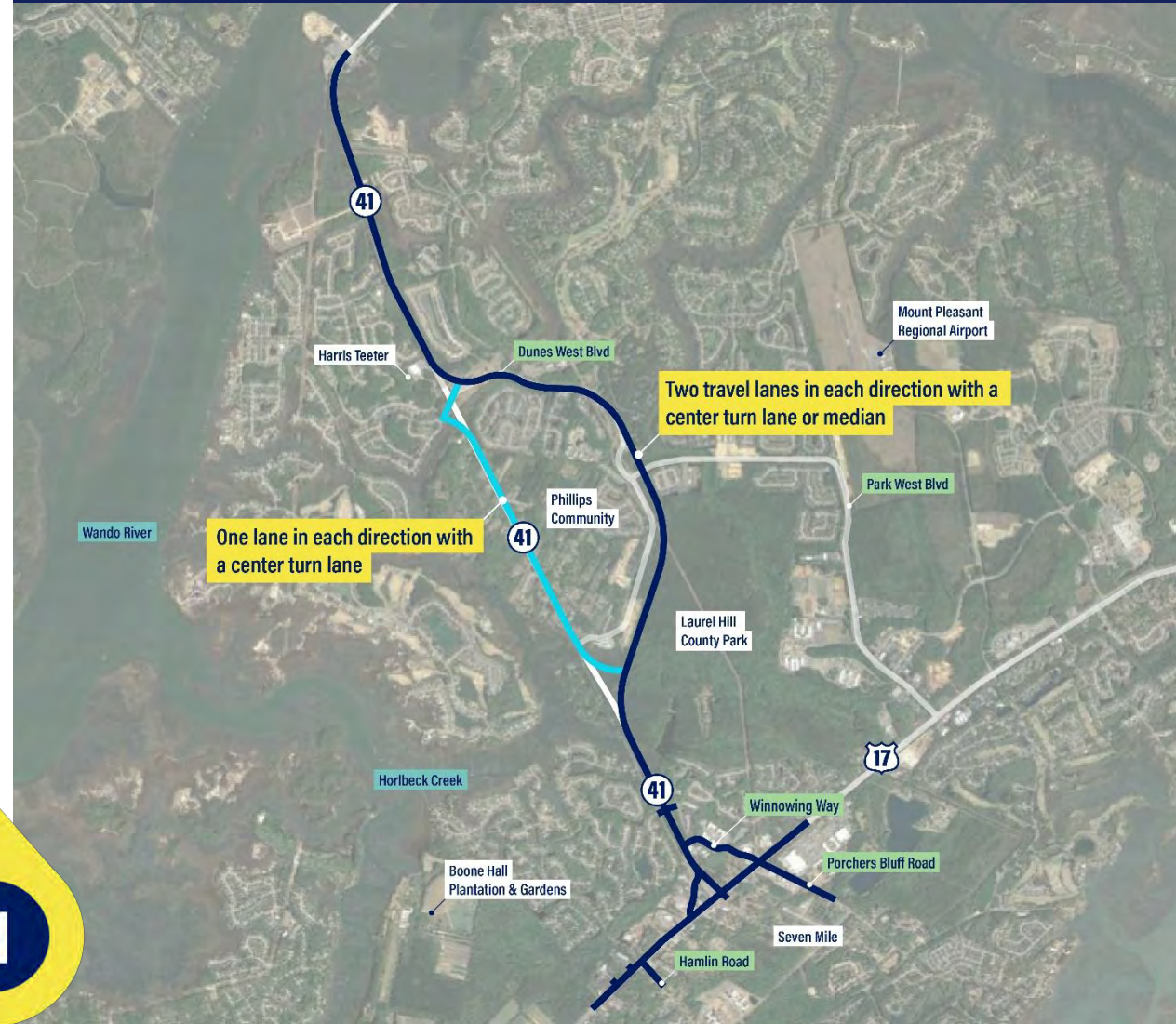
ALTERNATIVE 7A



Widening Existing Highway 41 (Alternative 1)



New Location Along Dunes West BLVD. (Alternative 7a)



 Existing ROW	 Wetlands
 Sidewalk	 Homes within 50 feet of new ROW
 Multiuse Path	 Historical Significance

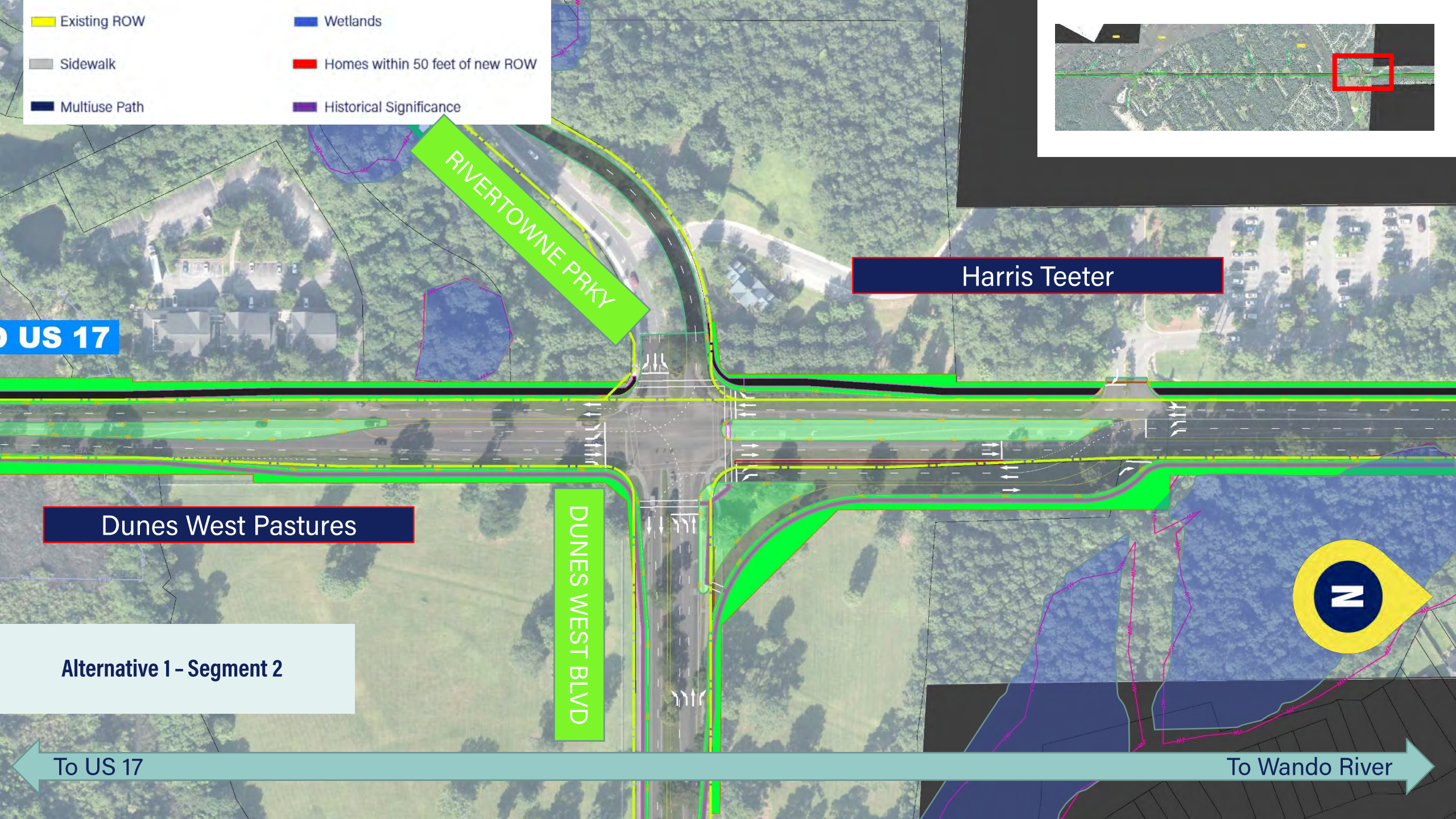


Alternative 1 - Segment 1

To US 17

To Wando River

- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance



US 17

RIVERTOWNE PRKY

Harris Teeter

Dunes West Pastures

DUNES WEST BLVD



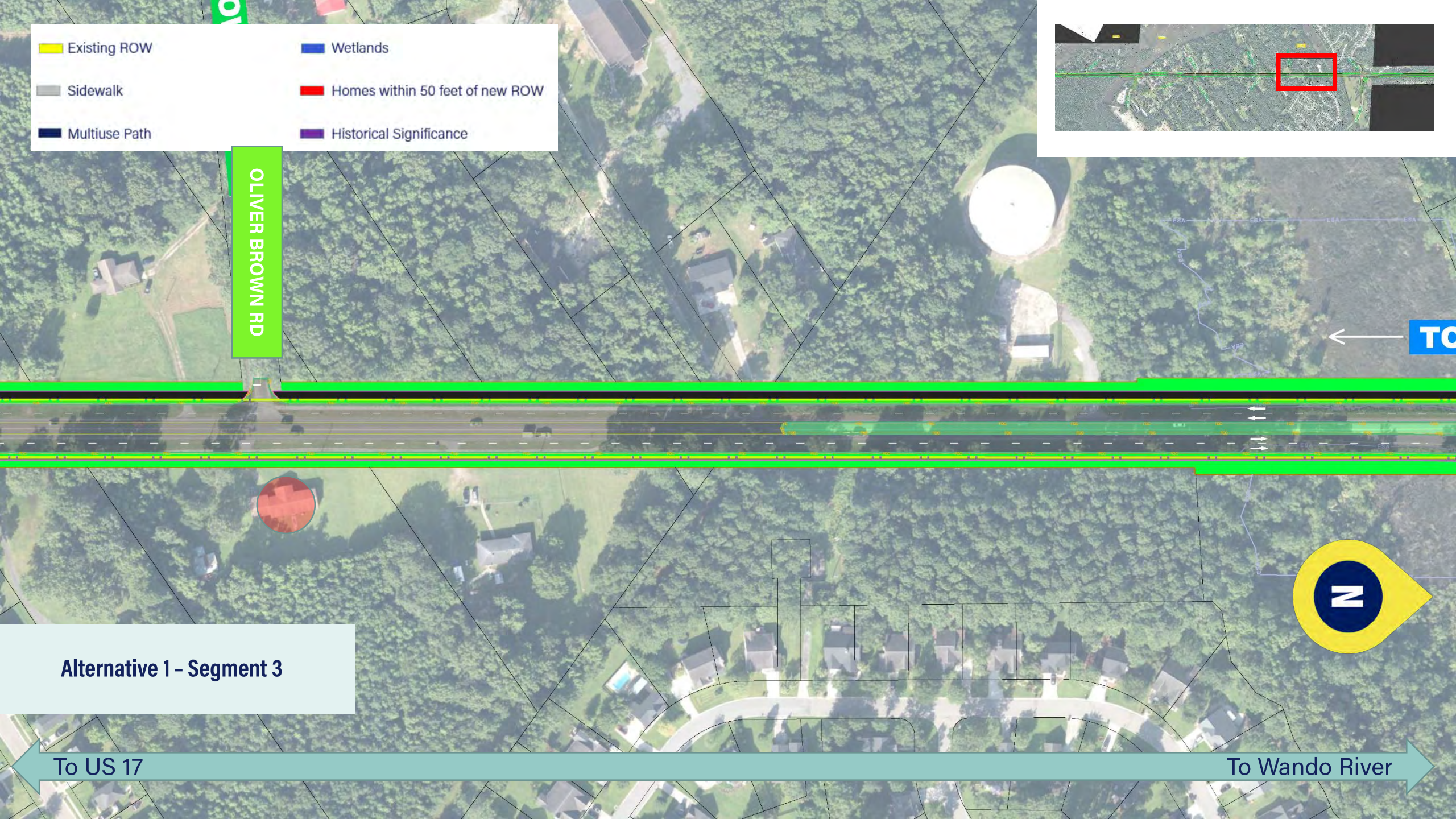
Alternative 1 - Segment 2

To US 17

To Wando River

- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance

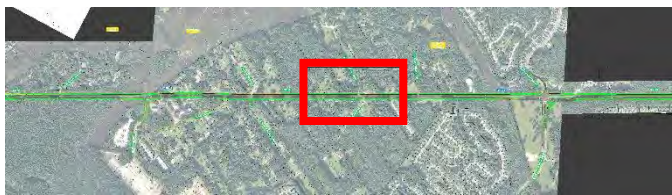
OLIVER BROWN RD



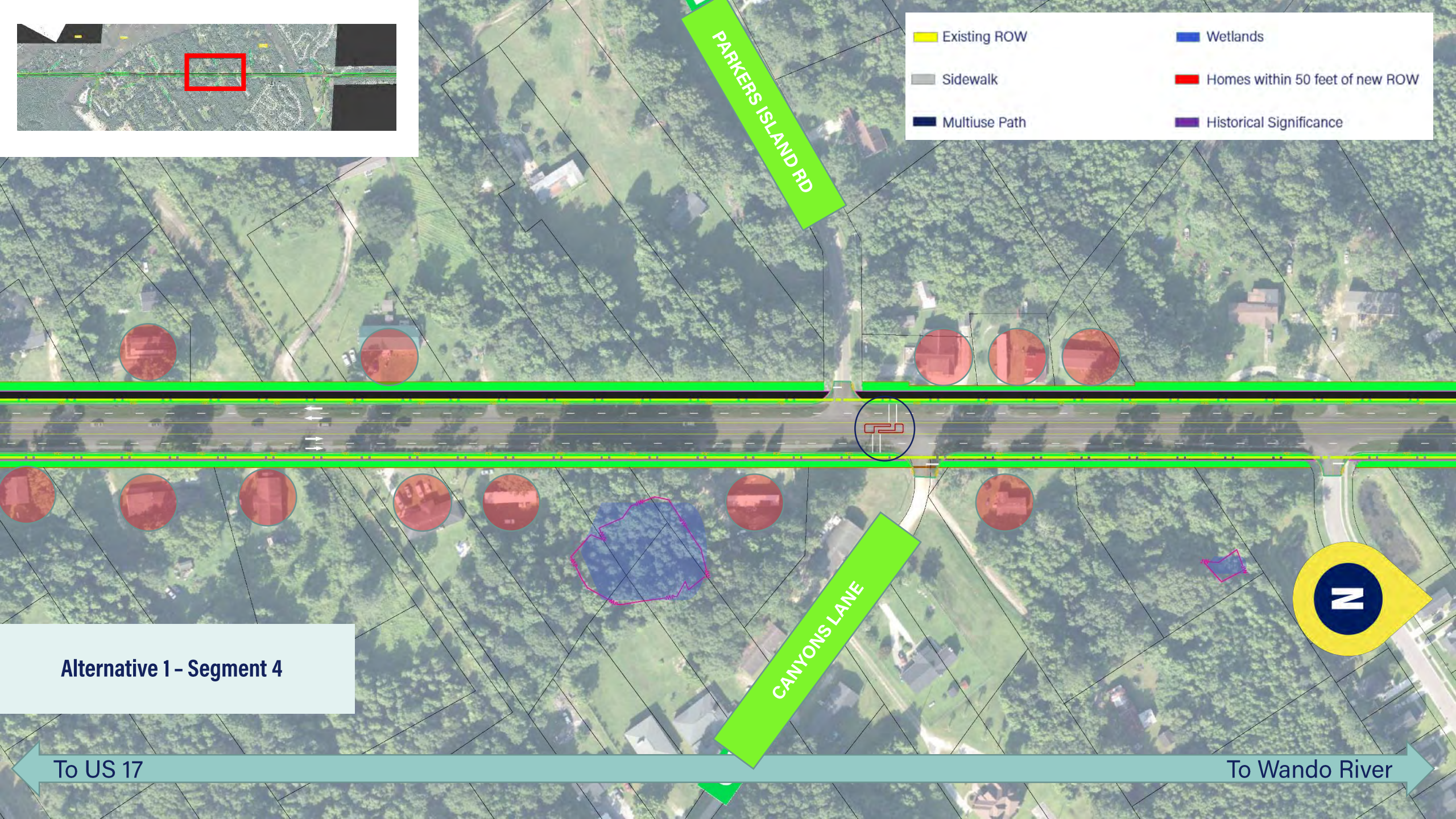
Alternative 1 - Segment 3

To US 17 To Wando River





- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance



PARKERS ISLAND RD

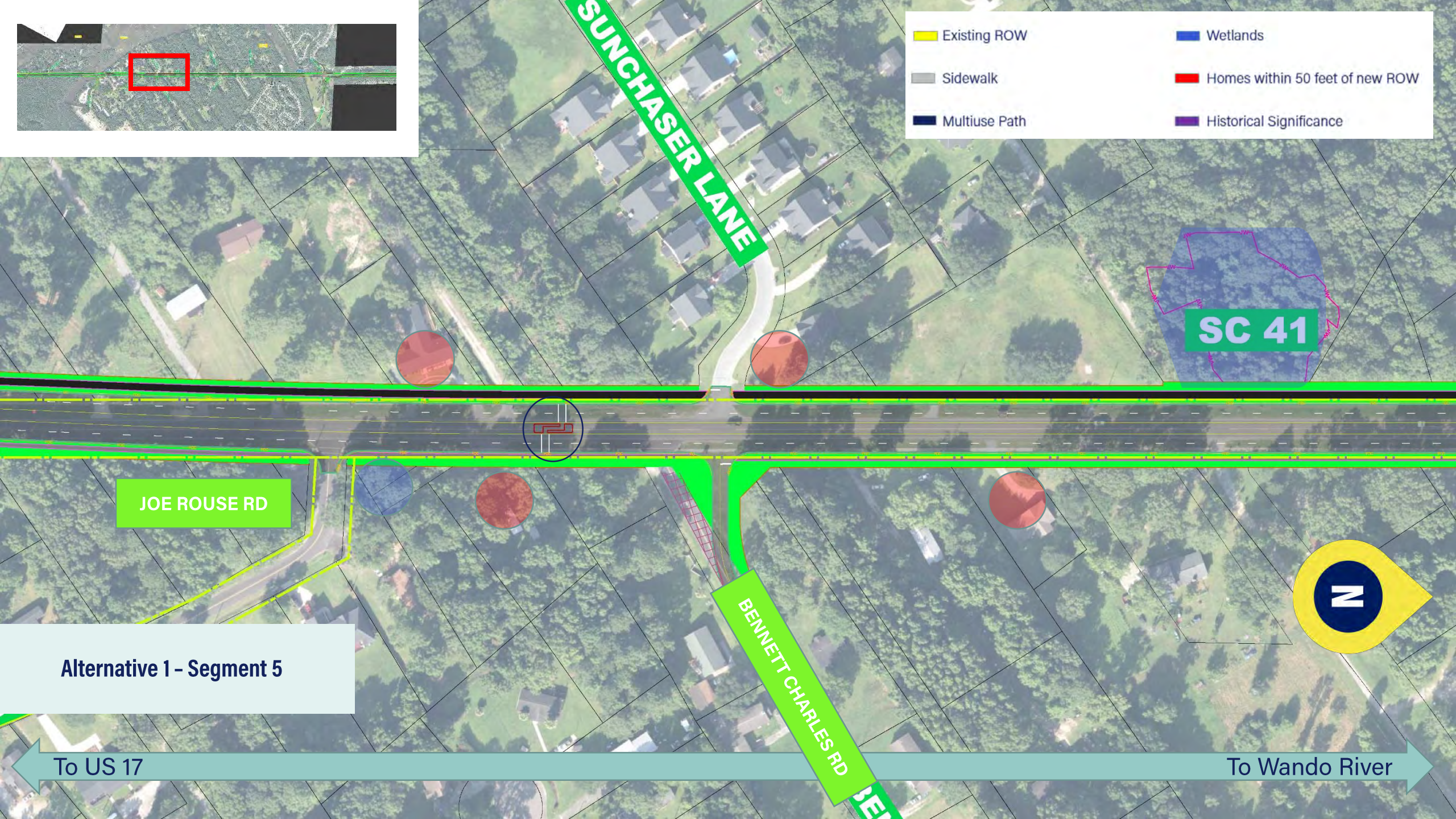
CANYONS LANE

Alternative 1 - Segment 4

To US 17 To Wando River



 Existing ROW	 Wetlands
 Sidewalk	 Homes within 50 feet of new ROW
 Multiuse Path	 Historical Significance



SUNCHASER LANE

SC 41

JOE ROUSE RD

BENNETT CHARLES RD



Alternative 1 - Segment 5

To US 17 To Wando River



- Existing ROW
- Sidewalk
- Multiuse Path
- Wetlands
- Homes within 50 feet of new ROW
- Historical Significance

TO US 17

JOE ROUSE RD/
BESSEMER RD



Alternative 1 - Segment 6

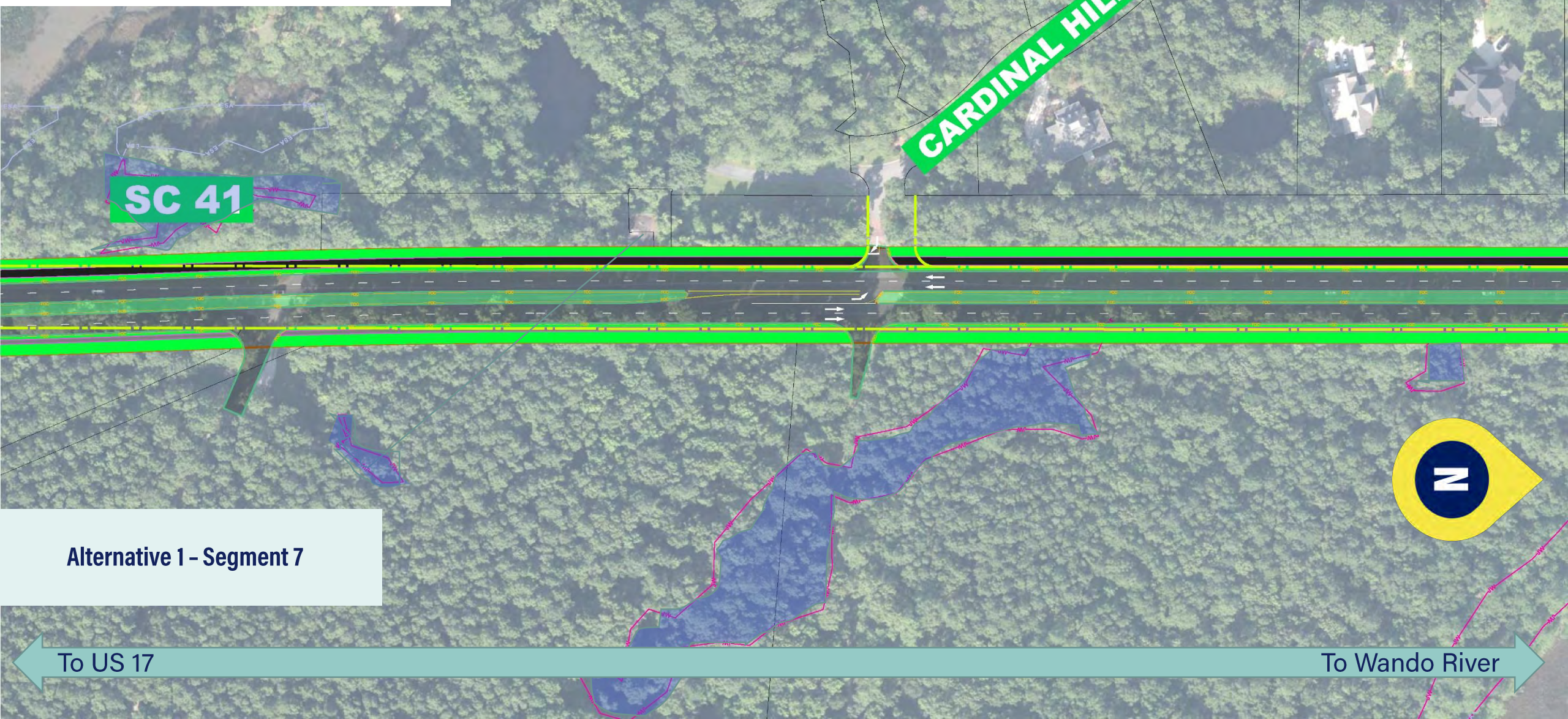
To US 17

To Wando River

JOE ROUSE



- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance



SC 41

CARDINAL HILL ROAD



Alternative 1 - Segment 7

To US 17

To Wando River

To US 17

To Wando River

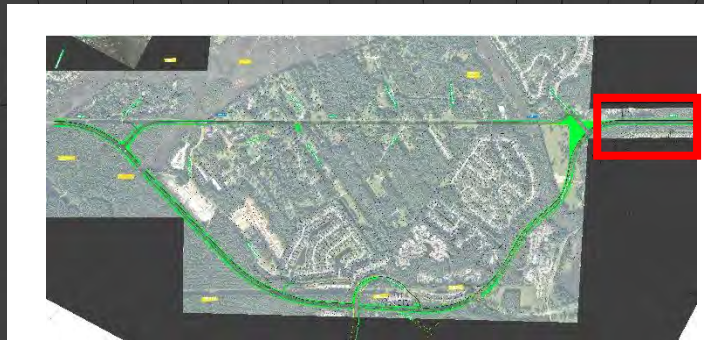


SC 41

The Gates at Dunes West

Alternative 7A - Segment 1

- | | |
|---------------|---------------------------------|
| Existing ROW | Wetlands |
| Sidewalk | Homes within 50 feet of new ROW |
| Multiuse Path | Historical Significance |



To US 17

To Wando River

US 17

Harris Teeter

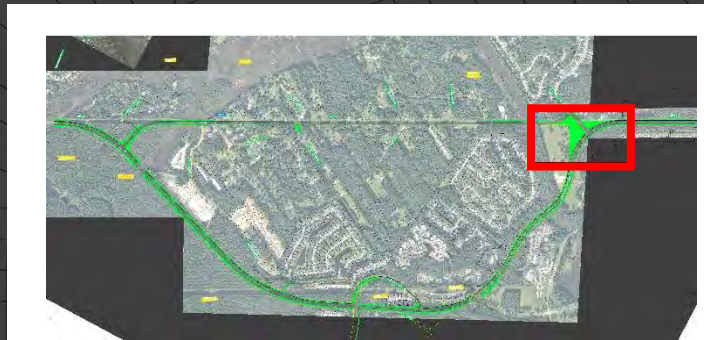


Dunes West Pastures

- Existing ROW
- Sidewalk
- Multiuse Path
- Wetlands
- Homes within 50 feet of new ROW
- Historical Significance

Alternative 7A - Segment 2

DUNES WEST BLVD



To US 17

To Wando River

 Existing ROW	 Wetlands
 Sidewalk	 Homes within 50 feet of new ROW
 Multiuse Path	 Historical Significance



DUNES WEST BOULEVARD

Alternative 7A - Segment 3





Alternative 7A - Segment 4

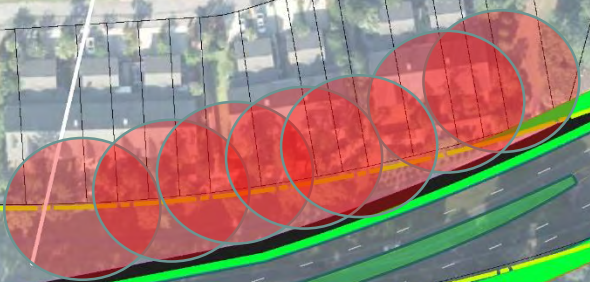
- | | |
|---|---|
|  Existing ROW |  Wetlands |
|  Sidewalk |  Homes within 50 feet of new ROW |
|  Multiuse Path |  Historical Significance |



To US 17

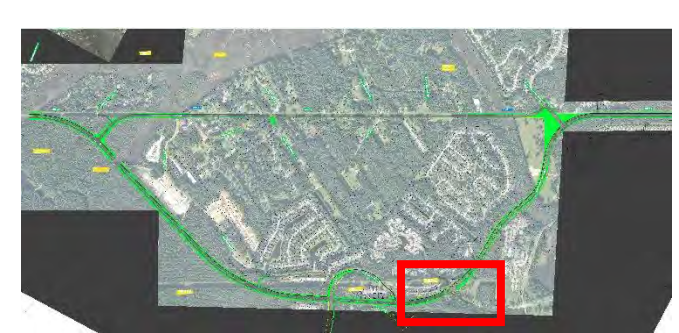
To Wando River

**NOISE WALL
WARRANTED**



Alternative 7A - Segment 5

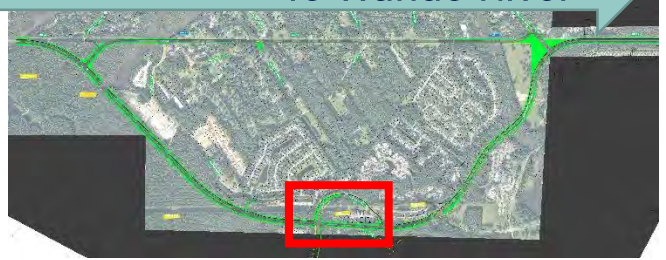
- | | |
|---------------|---------------------------------|
| Existing ROW | Wetlands |
| Sidewalk | Homes within 50 feet of new ROW |
| Multiuse Path | Historical Significance |



To US 17

To Wando River

- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance

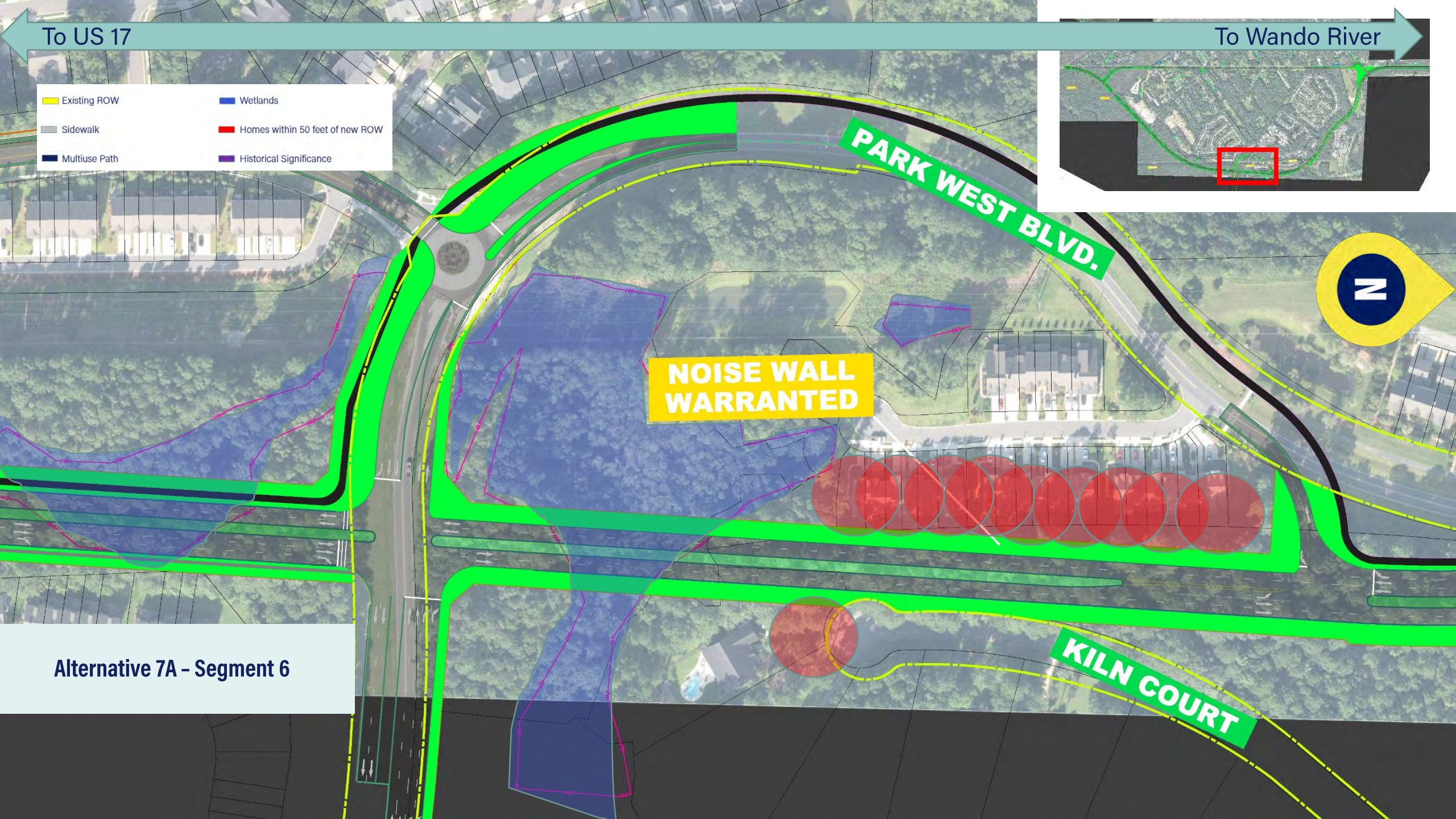


**NOISE WALL
WARRANTED**

PARK WEST BLVD.

KILN COURT

Alternative 7A - Segment 6





Existing ROW

Wetlands

Sidewalk

Homes within 50 feet of new ROW

Multiuse Path

Historical Significance

Alternative 7A - Segment 7

To US 17

To Wando River

N



- Existing ROW
- Sidewalk
- Multiuse Path
- Wetlands
- Homes within 50 feet of new ROW
- Historical Significance

Alternative 7A - Segment 8

To US 17

To Wando River

BESSEMER ROAD





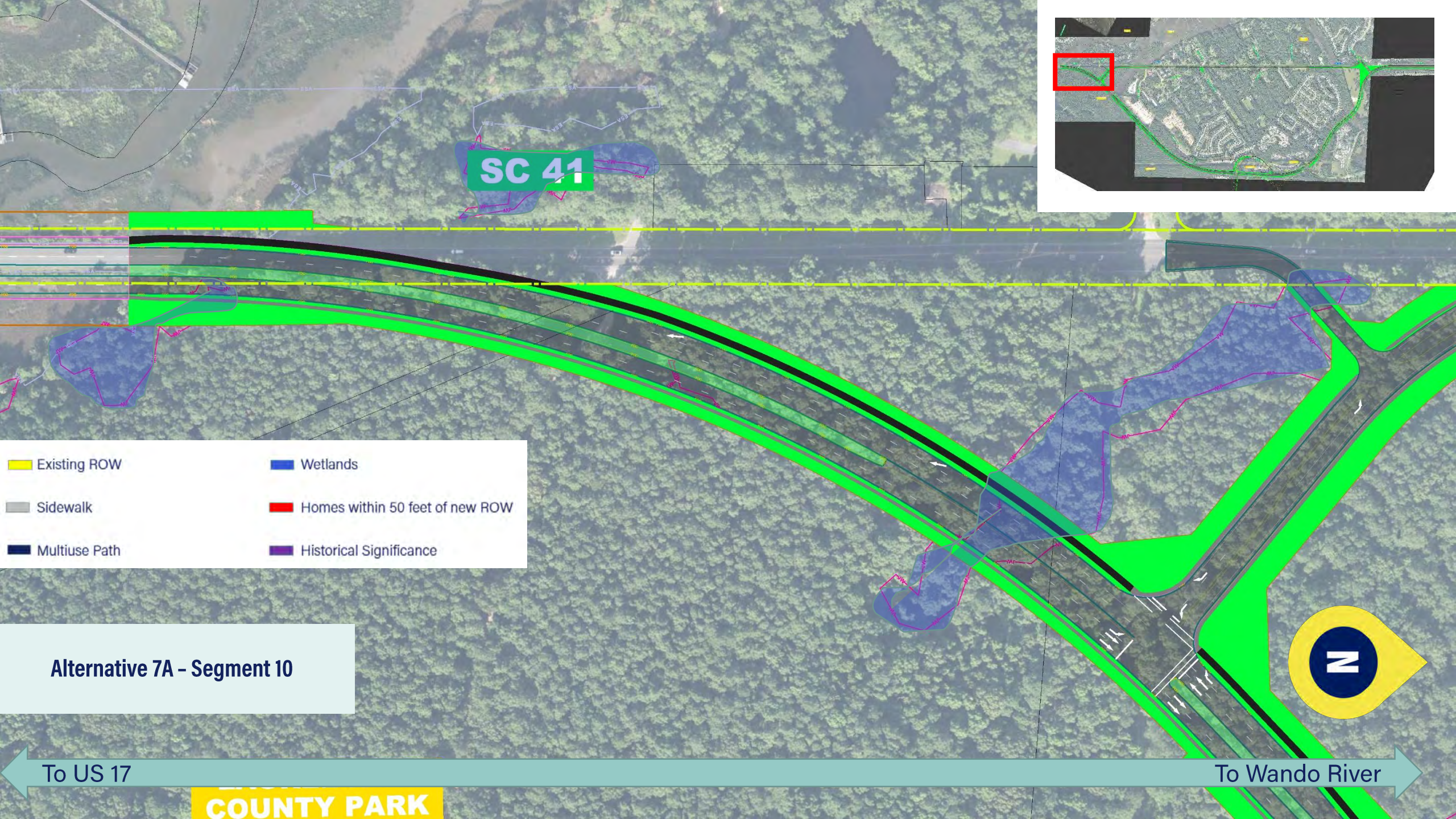
**BRIDGE OVER
CRITICAL AREA**

- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance

Alternative 7A - Segment 9

To US 17 To Wando River





SC 41

- Existing ROW
- Wetlands
- Sidewalk
- Homes within 50 feet of new ROW
- Multiuse Path
- Historical Significance

Alternative 7A - Segment 10



To US 17 To Wando River

COUNTY PARK

Environmental Matrix

		Alternative 1	Alternative 7a
What are the environmental impacts?			
Wetlands	Tidal	5.3	5.0
	Freshwater	2.9	6.2
	Wetlands under restrictive covenants (tidal and freshwater)	0.8	4.2
Environmental Justice		Disproportionately high and adverse effects to Phillips Community	No disproportionate effects
What are the cultural and historic impacts of each alternative? <i>National Register of Historic Places (NRHP)</i>	NRHP Archaeological Sites	1	2
	NRHP Eligible Cultural Landscape	Potential adverse effects	No effects
	Sweetgrass Basket Stands	Potential adverse effects	Potential adverse effects
	Laurell Hill County Park	0.7	19.4

		Alternative 1	Alternative 7a
What are the noise impacts? <i>Following the public meetings, the project team will solicit input on noise barriers directly from impacted receivers (individuals/homes) in the corridor.</i>			
	Impacted receivers <i>(residential, recreational, churches, restaurant patios)</i>	60	103
	Preliminary noise barriers identified	0	2
What are the community impacts?			
Properties	Full acquisitions or relocations <i>(number of parcels)</i>	0	0
	Partial acquisitions <i>(Number of parcels)</i>	213	164
	Right-of-way (acres)	30.4	58.3
Phillips Community Cultural Landscape	Full acquisitions or relocations <i>(number of parcels)</i>	0	0
	Partial acquisitions <i>(Number of parcels)</i>	85	2
	Right-of-way (acres)	4.7	0.6



Cost Matrix

	Alternative 1	Alternative 7A
Right-of-way Acquisition	\$10,340,000	\$10,960,000
Construction	\$96,140,000	\$127,270,000
Utility Relocations	\$12,450,000	\$9,320,000
Wetland and Stream Mitigation	\$6,020,000	\$6,350,000
Community Mitigation	TBD	TBD
Potential Noise Barriers	-	\$1,155,000
Total Cost	\$125,950,000	\$155,055,000
\$30m Difference		

Estimates used for comparison of alternatives and screening process.

Cost estimates to be updated once a proposed alternative is selected and design is advanced.



AM Peak Traffic Times - Southbound

Widening Existing Highway 41 (Alternative 1)

Average Travel Time
7.6 Minutes



New Location Along Dunes West BLVD. (Alternative 7a)

Average Travel Time
9.6 Minutes



PM Peak Traffic Times - Northbound

Widening Existing Highway 41 (Alternative 1)

Average Travel Time
8.5 Minutes



New Location Along Dunes West BLVD. (Alternative 7a)

Average Travel Time
13.8 Minutes



Mitigation

- Draft Mitigation Plan will be included in the Environmental Report
- Community Mitigation Advisory Committee



Existing Property along Highway 41



Potential Mitigation on Individual Properties

Disclaimer: this is a conceptual rendering to show what mitigation enhancements could potentially look like; the landowner has not been consulted.



Existing Property along Highway 41



Potential Mitigation on Individual Properties

Disclaimer: this is a conceptual rendering to show what mitigation enhancements could potentially look like; the landowner has not been consulted.



Schedule & What's Next?

IMMEDIATE NEXT STEPS

Complete the draft environmental report and submit it along with the permit application to the U.S. Army Corps of Engineers, who will review the documents, issue a public notice for the proposed project and hold a comment period.

HOW WILL CHARLESTON COUNTY WORK WITH IMPACTED LANDOWNERS?

The project team will contact directly impacted landowners on an individual basis.



Thank you!

