



**NORTH CAROLINA**  
Department of Transportation

# Public Hearing

## U.S. 1 (Capital Boulevard) Improvements

NCDOT State Transportation Improvement Program (STIP)

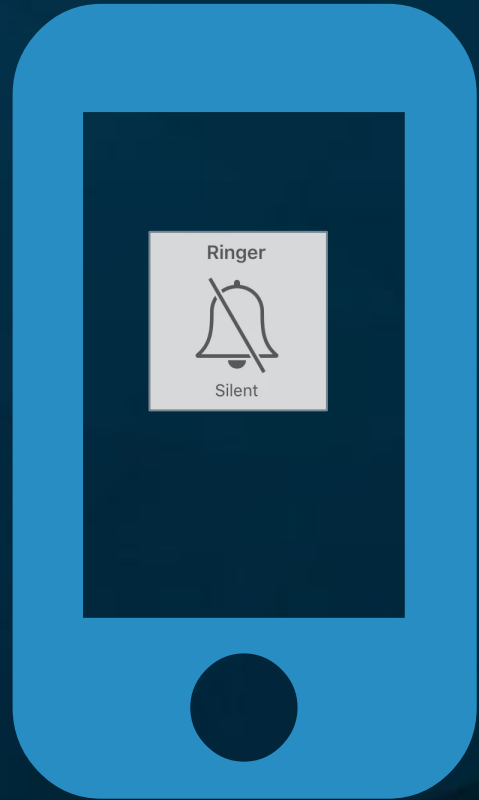
Project No. U-5307

Diane Wilson

Senior Public Involvement Officer, NCDOT

June 21, 2023

Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity  
to enhance the economy and vitality of North Carolina



# Please Silence Your Cell Phone

Thank you

Purpose of the Hearing

Project Overview

Project Alternatives

Project Cost and Impacts

Right-of-Way Process

Next Steps

Public Comments

## Purpose of the Public Hearing

- Inform you about the Environmental Assessment (EA)
- Explain the Purpose and Need of the Project
- Present an Overview of the NCDOT Recommended Alternative
- Get Your Input on the EA and the NCDOT Recommended Alternative

## Your Input is Vital!

- All comments, regardless of submittal method carry the same weight
- Hearing is being recorded - transcript will be made available on the project webpage
- Everyone present is urged to participate



## What is next?

Comments should be submitted by July 7, 2023

- All comments received on or before this date will be discussed at a Post Hearing Meeting with our agency partners

Final environmental document will be published listing the decision

- A Finding of No Significant Impact (FONSI) is anticipated and expected early in 2024

## NCDOT Considerations

Safety

Human and Natural Environmental Impacts

Traffic Service

Costs

Public Comments

## Map & Document Locations

### NCDOT Division 5 Offices

(2612 N. Duke Street, Durham)

(4005 District Drive, Raleigh)

### City of Raleigh Planning Department

(One Exchange Plaza, Suite 300, Raleigh)

### Wake Forest Planning Department

(301 S. Brooks Street, Wake Forest)

Project Webpage ([www.ncdot.gov/projects/capital-boulevard-upgrade](https://www.ncdot.gov/projects/capital-boulevard-upgrade))

The screenshot shows the NCDOT project webpage for U-5307: U.S. 1 (Capital Boulevard) Upgrade. The page header includes the NCDOT logo and the text "NORTH CAROLINA Department of Transportation". Below the header, there is a "Translate" button and the project title "U-5307: U.S. 1 (Capital Boulevard) Upgrade". The main content area contains the following text: "This site is intended for information review and comment / question collection for this project. It contains maps and videos arranged for ease of viewing and comment. For more information please visit: <https://www.ncdot.gov/projects/capital-boulevard-upgrade/>". Below this, it states: "This project is included in the State Transportation Improvement Program (STIP) as Project Number U-5307". The bottom section of the page is titled "Open House Public Meeting and Combined Public Hearing" and lists the date "June 21, 2023", the location "Living Word Family Church, 10520 Star Road, Wake Forest", and the schedule: "Open House Public Meeting 4-6:30 PM" and "Combined Public Hearing Formal Presentation followed by Public Comments 7 PM".



# Project Overview

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## U.S. 1 (Capital Boulevard) Project Corridor

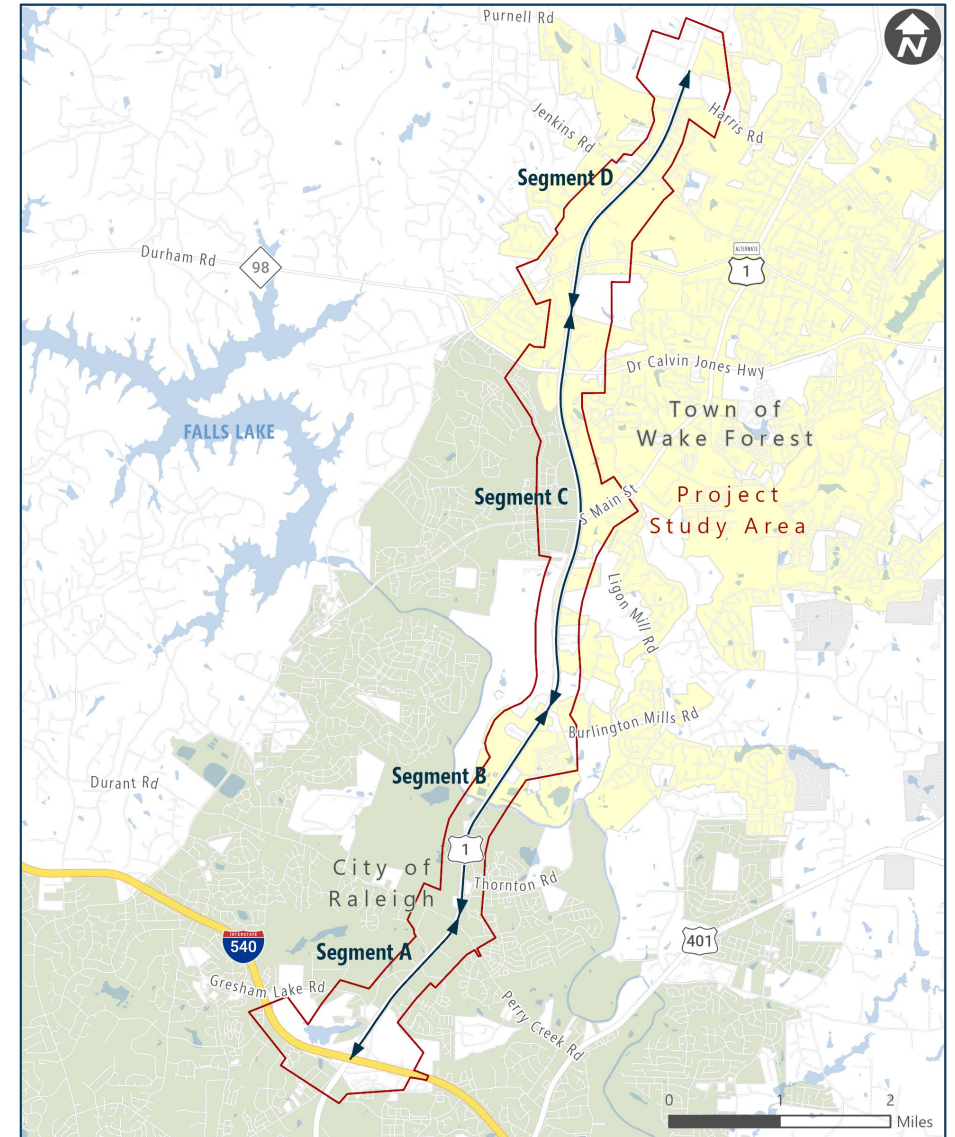
- Statewide and Regionally Significant Corridor
- Critical north-south link between Raleigh and Wake Forest communities



## U.S. 1 (Capital Boulevard) Project Corridor

### Project Segments

- Segment A – I-540 to north of Durant Road/ Perry Creek Road
- Segment B – north of Durant Road/Perry Creek Road to north of Burlington Mills Road
- Segment C – north of Burlington Mills Road to south of N.C. 98 Business
- Segment D – south of N.C. 98 Business to Purnell Road/Harris Road





## Project Purpose and Need

### Purpose

- Improve traffic congestion and travel times
- Maintain regional mobility and local connectivity

### Need

- Traffic congestion and trip time unreliability



## Fulfilling the Purpose and Need

- Remove all driveway connections
- Remove all traffic signals



Burlington Mills Road Intersection

## How are the Purpose and Need Fulfilled?

- Improving existing interchanges  
(I-540, N.C. 98 Bypass, and N.C. 98 Business)
- Constructing new interchanges  
(Durant Road/Perry Creek Road, Burlington Mills Road, U.S. 1A  
(Falls of Neuse Road/S Main Street) and Purnell Road/Harris Road)
- Constructing new grade separations  
(Gresham Lake Road north of I-540 and Jenkins Road/Stadium Drive)
- Improving existing service/connector roads and constructing new throughout the project corridor



## **U-5307 Environmental Assessment** **Prepared in accordance with the National Environmental Policy Act (NEPA)**

- Summarizes the potential environmental impacts and benefits
- Explains why the project is proposed
- Outlines alternatives considered
- Documents avoidance, minimization, and mitigation measures

The EA was signed May 31, 2023 by NCDOT and FHWA

*Comments on the EA should be submitted by  
July 7, 2023*

FHWA NEPA and Project Development Webpage:  
<https://www.environment.fhwa.dot.gov/nepa/documentation.aspx>

## Section 4(f)

### Section 4(f) resources receive special protection under the law

- Publicly-owned parks
- Recreational lands
- Wildlife and waterfowl refuges
- Publicly or privately-owned historic sites  
(those on or eligible for listing on the National Register of Historic Places)



## Section 4(f)

### Section 4(f) resources receive special protection under the law

If agreement can be reached that the project would not adversely affect the activities, features, and attributes of the resource, a 'de minimis' impact determination can be issued

Public notice was provided regarding the proposed *de minimis* impact determinations under Section 4(f) for the Project's potential effects on resources in the study area

## Section 4(f) Resources and Impacts Relevant to the U-5307 Project

### Historic Properties

- Powell House  
*De Minimis*
- Wakefields/Sutherland  
*De Minimis*
- Raleigh & Gaston Rail Corridor  
*No Impact*
- Purefoy-Dunn Plantation  
*No Impact*

### Recreational Resources

- Carol Joyner Park (also a Section 6(f) Resource)  
*No Impact*



Wakefields/Sutherland Historic Property

## Public Involvement History

- Public Meeting 1 ( October 2018)
- Public Meeting 2 (December 2021)
- Small Group Meetings
  - Businesses and Developers,
  - Neighborhoods, Churches, and
  - Property Owners
- Municipal Coordination - Ongoing
  - City of Raleigh
  - Town of Wake Forest
  - Capital Area MPO
  - other municipal agencies



October 2018 Public Meeting



# Project Alternatives

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## Project Alternatives

No-Build Alternatives will not meet the need to reduce congestion and improve travel times

### Evaluation of Build Alternatives

- Traffic analyses
- Potential impacts (natural and human environment)
- Feasibility
- Costs

## **Recommended Alternative and Preferred Alternative**

Selection of the NCDOT Recommended Alternative made after extensive review and additional coordination with agency partners

Preferred alternative selection later this year after additional agency coordination and review of public comments

## Project Cost Estimate

### NCDOT Recommended Alternative

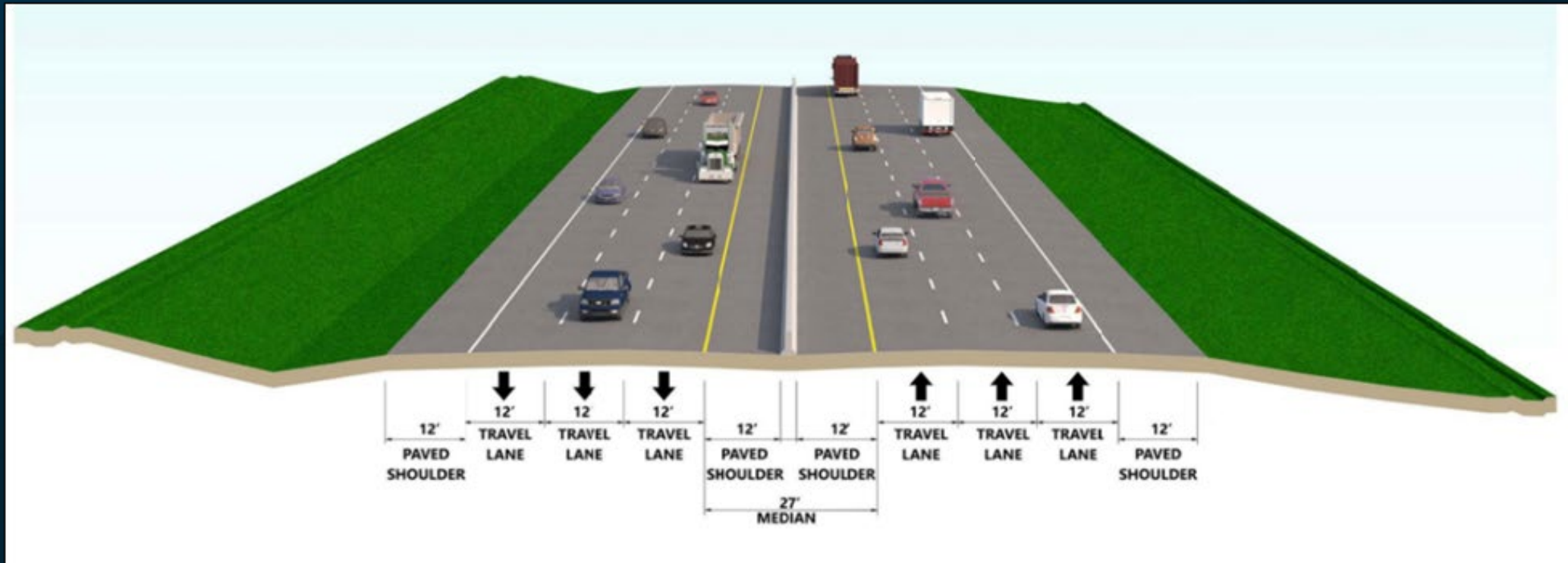
Total cost estimate for the NCDOT Recommended Alternative is \$792.6M

Total cost for all project alternatives varies from \$744.4M to \$810.9M

Segment A		
Right-Of –Way	\$ 90.7 M	\$ 279.8 M
Utilities	\$ 17.4 M	
Construction	\$ 171.7 M	
Segment B		
Right-Of –Way	\$ 47.3 M	\$ 183.4 M
Utilities	\$ 7.1 M	
Construction	\$ 93.2 M	
Segment C		
Right-Of –Way	\$ 28.1 M	\$ 163.3 M
Utilities	\$ 6.5 M	
Construction	\$ 128.6 M	
Segment D		
Right-Of –Way	\$ 48.0 M	\$ 166.1 M
Utilities	\$ 9.1 M	
Construction	\$ 109.0 M	

## Proposed Typical Section – Capital Boulevard

- 70-mph design speed
- Six 12-foot lanes with auxiliary lanes and transition lanes as needed

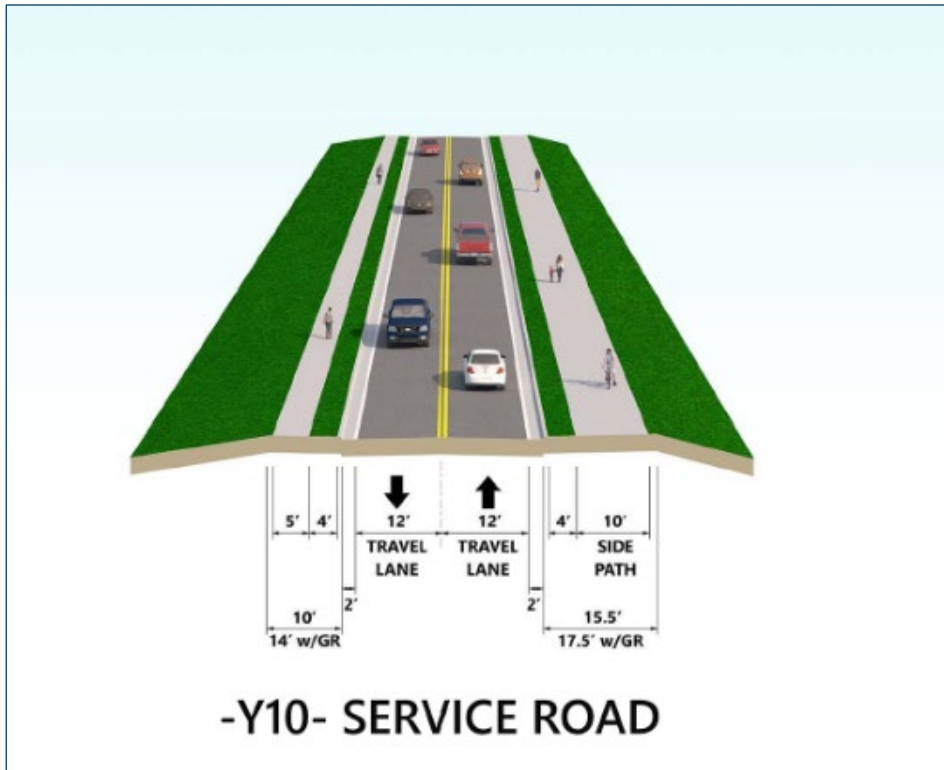




## Proposed Typical Section Connector / Service Roads

### Service/Connector Roadways

- Two 11-foot to 12-foot lanes, left-turn lanes as needed
- Sidewalk and/or 10' multi-use path/side path



# NCDOT Recommended Alternative

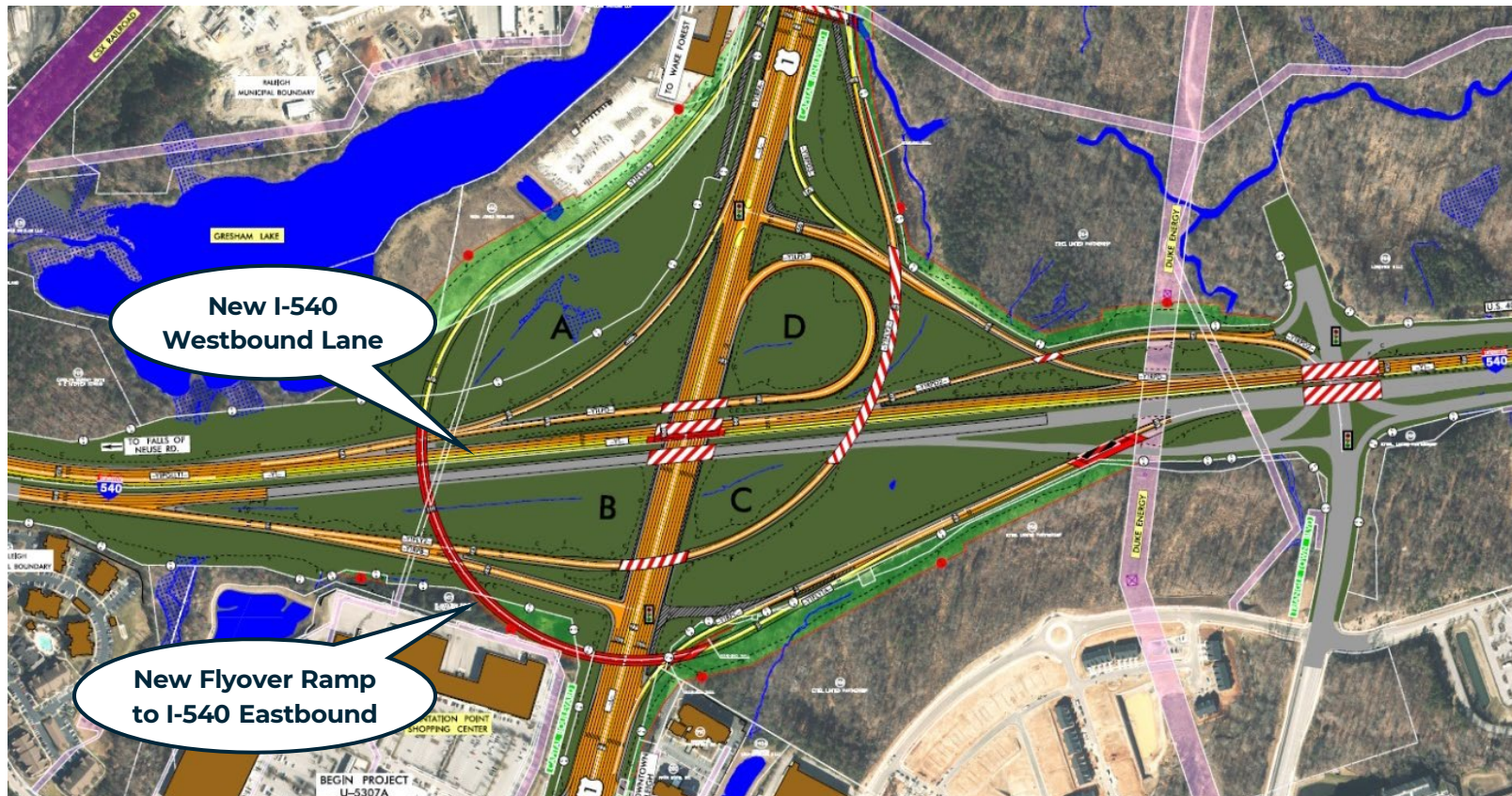
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## Segment A

(I-540 to north of Durant Road/Perry Creek Road)

## I-540 at U.S. 1 Interchange

- Flyover carrying U.S. 1 southbound traffic to I-540 eastbound
- Additional westbound through-lane on I-540





## Gresham Lake Road Extension

- Shifts intersection of Gresham Lake Road, Capital Hills Drive, and Overlook Road
- Connects Gresham Lake Road to a new service road via overpass east of U.S. 1



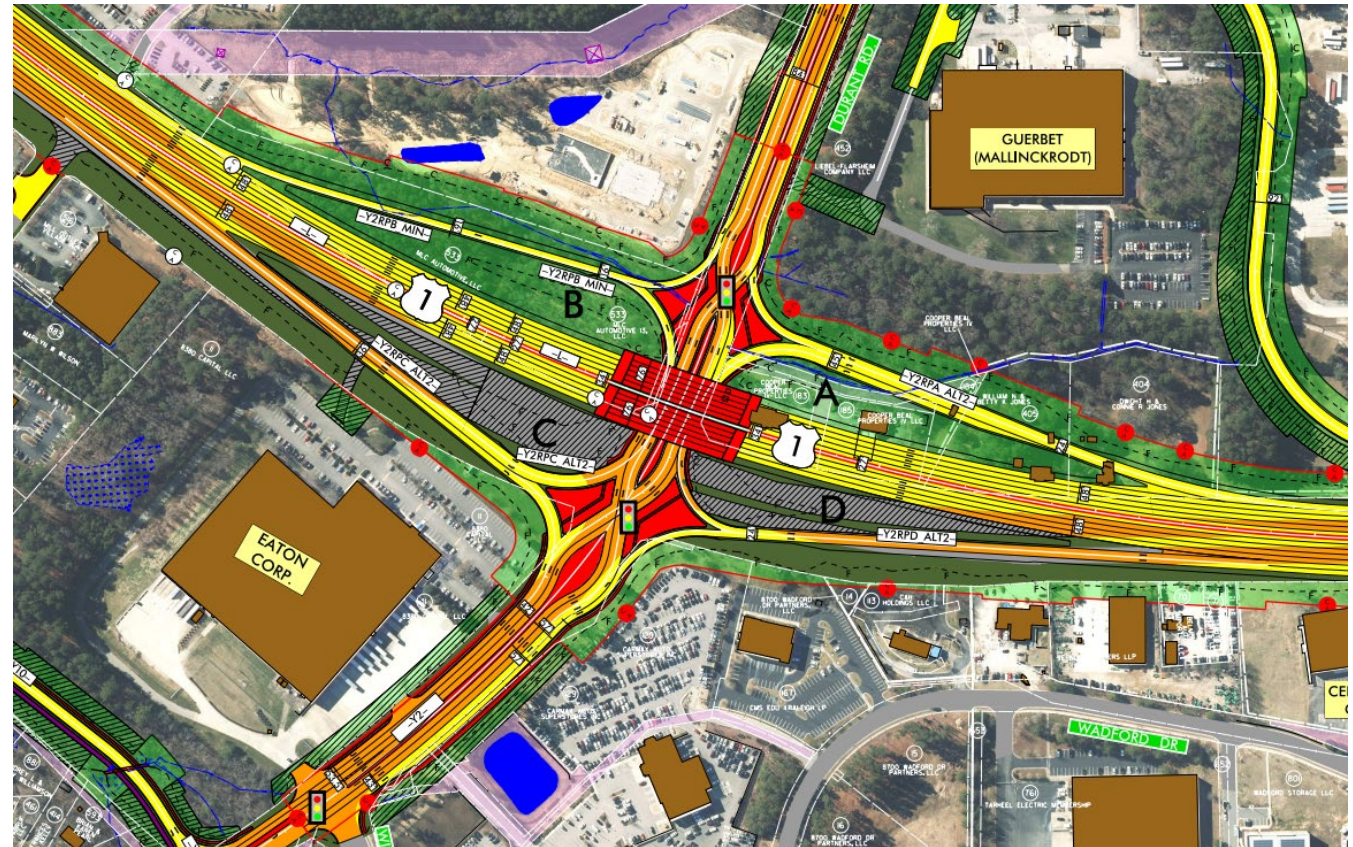


## Durant Road/Perry Creek Road Interchange

- Minimized Diverging Diamond Interchange (DDI)
- U.S. 1 crosses over Durant Road/Perry Creek Road

A diverging diamond interchange moves high volumes of traffic through an intersection without increasing the number of lanes and traffic signals.

<https://www.ncdot.gov/initiatives-policies/Transportation/safety-mobility/diverging-diamond-interchanges/Pages/default.aspx>



# Segment A Impact Summary

## Potential Impacts

### Natural Environment

Stream Impacts – up to 4,687 linear ft

Wetland Impacts – up to 1.13 acres

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### Human Environment

No Section 4(f) Historic Properties

1 Potential Noise Abatement Area

1 Community Resource Impact

### Right-of-Way Impacts (Relocations)

Residential – 4 (1 minority)

Commercial – 12 (1 minority)

Non-Profit – 1

# NCDOT Recommended Alternative



## Segment B

(North of Durant Road/Perry Creek Road to Burlington Mills Road)



## U.S. 1 at Burlington Mills Road Interchange

- Diamond Interchange
- Burlington Mills crosses over U.S. 1

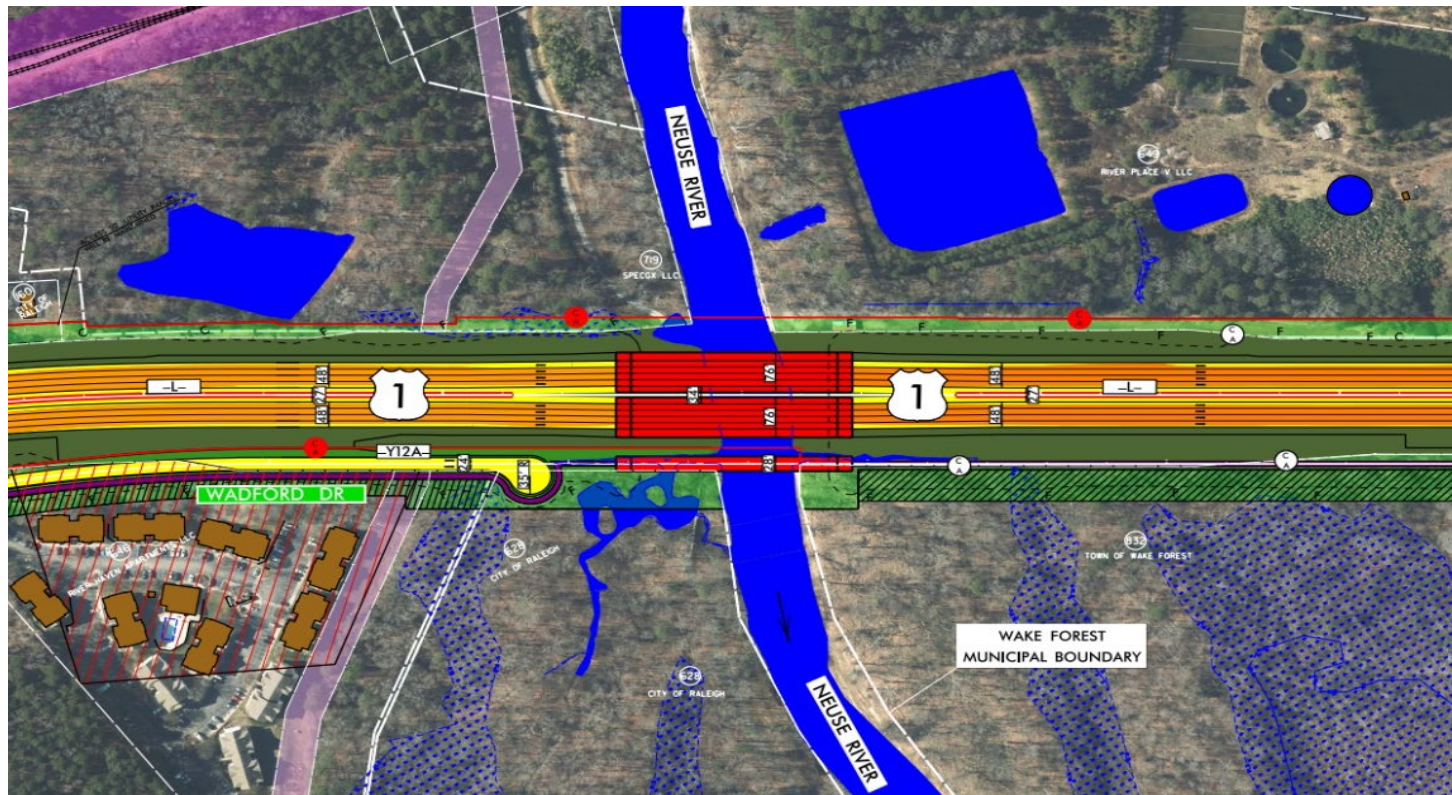




## Neuse River Crossing

U.S. 1 Mainline Bridges widened and extended

- Provides 65' for wildlife crossings underneath
- Additional Multi-Use Path/Side Path Bridge (serves to maintain traffic during construction)



## Segment B Impact Summary

### Potential Impacts

#### Natural Environment

Stream Impacts – up to 1,197 linear ft

Wetland Impacts – up to 0.94 acres

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#### Human Environment

No Section 4(f) Historic Properties

1 Potential Noise Abatement Area

1 Community Resource Impact

#### Right-of-Way Impacts (Relocations)

Residential – 8 (1 minority)

Commercial – 16

Non-Profit – 0

# NCDOT Recommended Alternative

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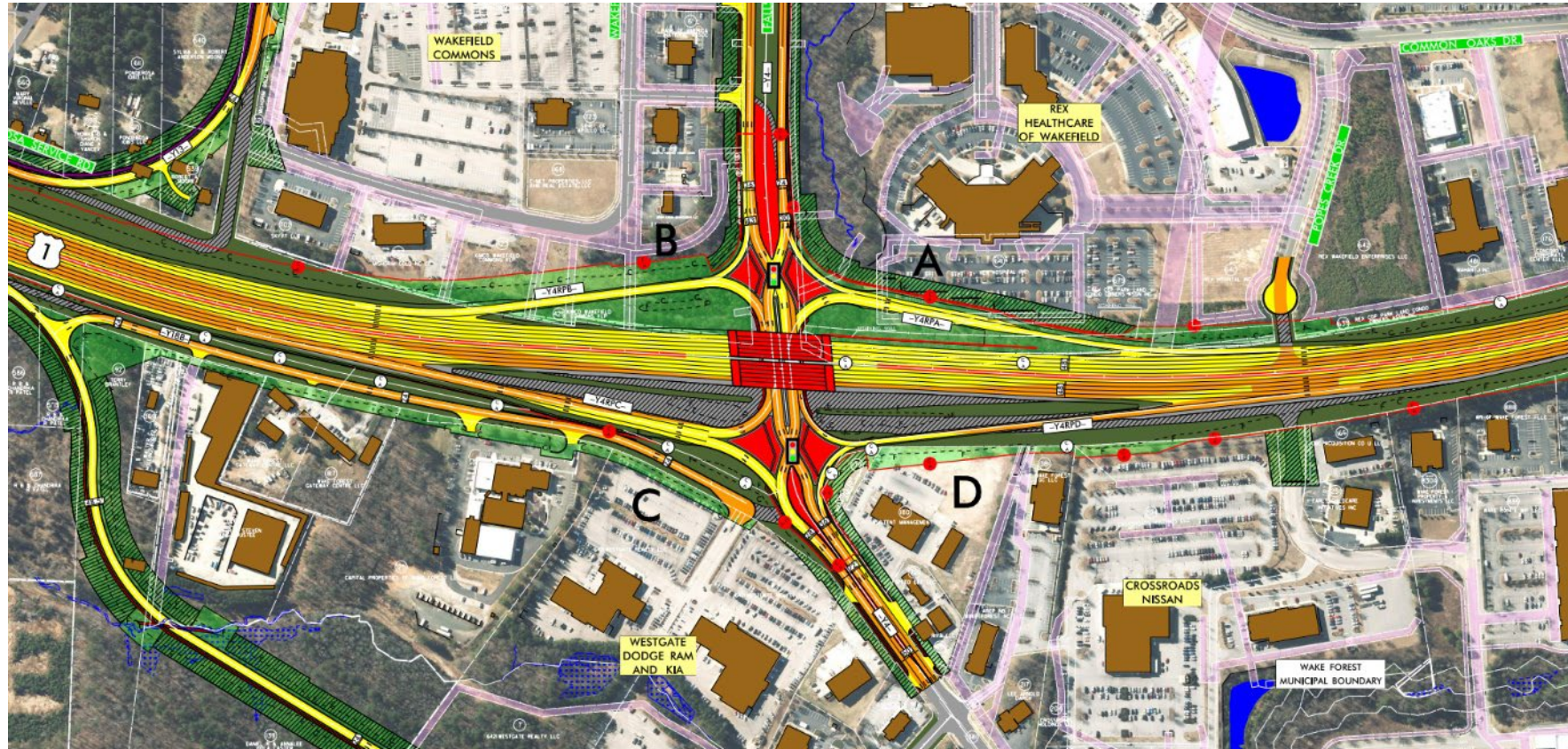
## Segment C

(North of Burlington Mills Road to south of N.C. 98 Business)



## U.S. 1 at Falls of Neuse Road/U.S. 1A (S Main Street) Interchange

- Diverging Diamond Interchange
- U.S. 1 crosses over Falls of Neuse Road/U.S. 1A (S. Main Street)





## U.S. 1 at N.C. 98 Bypass Interchange

- Existing Interchange remains
- Minor ramp improvements to tie existing ramps into U.S. 1



## Segment C Impact Summary

### Potential Impacts

#### Natural Environment

Stream Impacts – up to 1,588 linear ft

Wetland Impacts – up to 0.6 acres

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#### Human Environment

3 Section 4(f) Historic Properties

3 Potential Noise Abatement Area

1 Community Resource Impact

#### Right-of-Way Impacts (Relocations)

Residential – 2

Commercial – 0

Non-Profit – 0

# NCDOT Recommended Alternative

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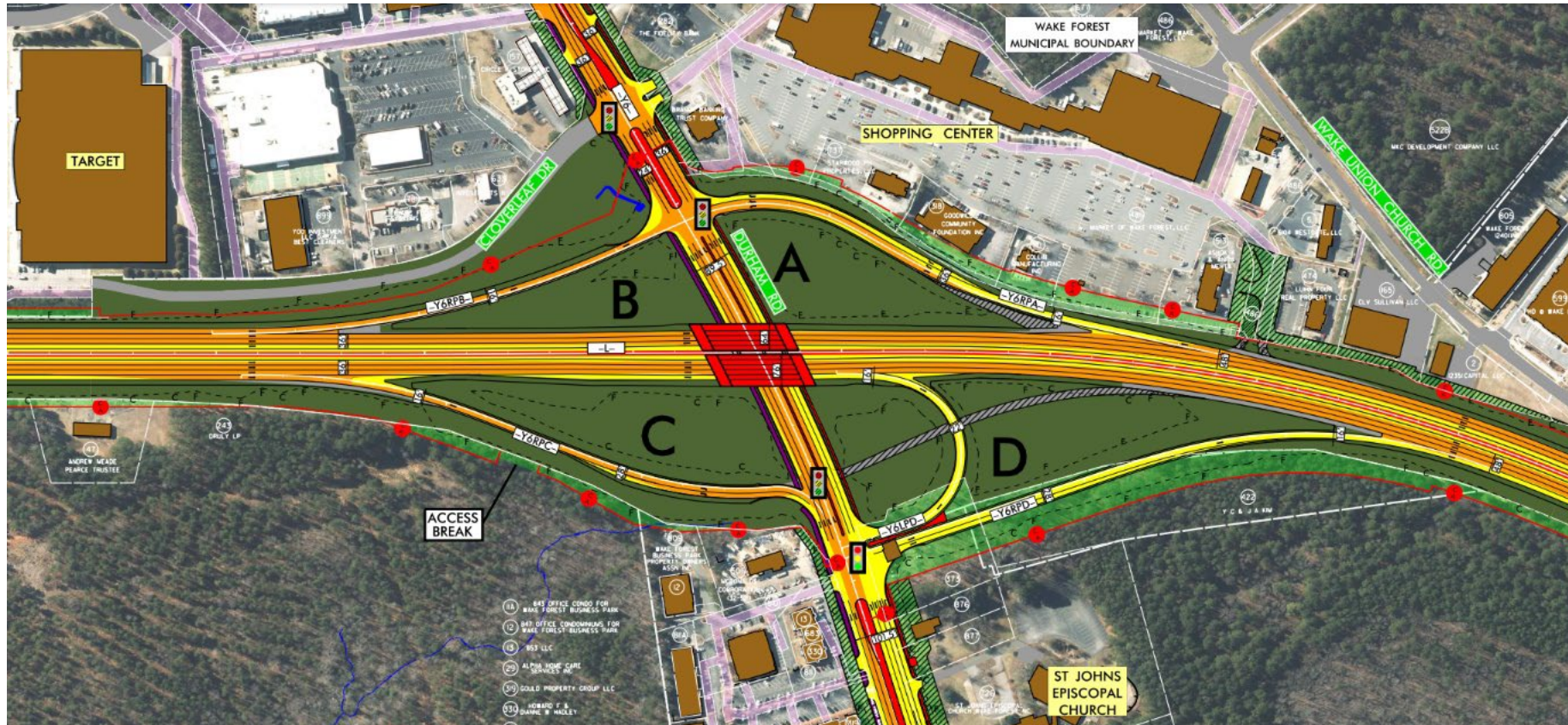
## Segment D

(South of N.C. 98 Business to Purnell Road/Harris Road)



## U.S. 1 at N.C. 98 Business Interchange

- Existing Interchange Modifications
- Replace existing U.S. 1 bridges over N.C. 98 Business and construct ramp/loop additions





## U.S. 1 at Jenkins Road/Stadium Drive Grade Separation

- New Grade Separation (Overpass)
- No interchange proposed but does not preclude one in the future





# U.S. 1 at Purnell Road/Harris Road Interchange

- Partial Cloverleaf Interchange



## Segment D Impact Summary

### Potential Impacts

#### Natural Environment

Stream Impacts – up to 1,392 linear ft

Wetland Impacts – up to 0.06 acres

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#### Human Environment

1 Section 4(f) Historic Properties

2 Potential Noise Abatement Area

4 Community Resource Impact

#### Right-of-Way Impacts (Relocations)

Residential – 20 (4 minority)

Commercial – 7

Non-Profit – 0

# Next Steps

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## Project Schedule

### Segment A

Design-Build project

Right-of-Way and Utilities      October 2025

Construction      October 2025

*As shown in the currently adopted 2024-2033 State Transportation Improvement Program (STIP) future dates subject to change.*



## Project Delivery – Design-Build Process

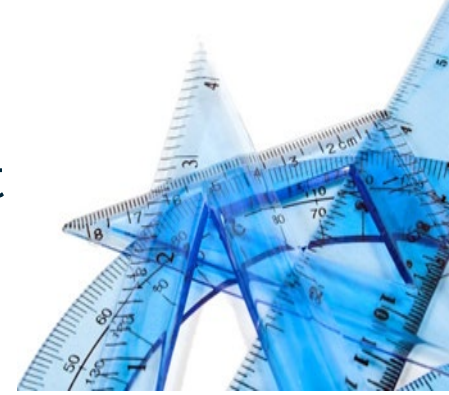
Segment A currently scheduled to be constructed as a Design-Build project

### The Design-Build process

Typically results in faster project completion

Allows for more innovative solutions to reduce time and costs

May introduce additional alternatives or modifications to the current design which may in turn reduce impacts or costs



## Project Schedule

Segments B, C and D

Traditional Design-Bid-Build projects

Programmed for Preliminary Engineering but not currently scheduled for right-of-way, utility relocation or construction in the currently adopted 2024-2033 STIP.



## **Traffic Noise Study**

Initial Traffic Noise Report completed in March 2022

During planning and design, NCDOT must

- Identify traffic noise impacts
- Examine potential noise abatement
- Incorporate reasonable and feasible noise abatement measures
- Coordinate with local officials to provide helpful information on compatible land use planning and control

NCDOT Noise Regulations and Policies Webpage:

<https://ncdot.gov/initiativespolicies/environmental/reducingnoise/pollution/Pages/regulations-policies.aspx>48



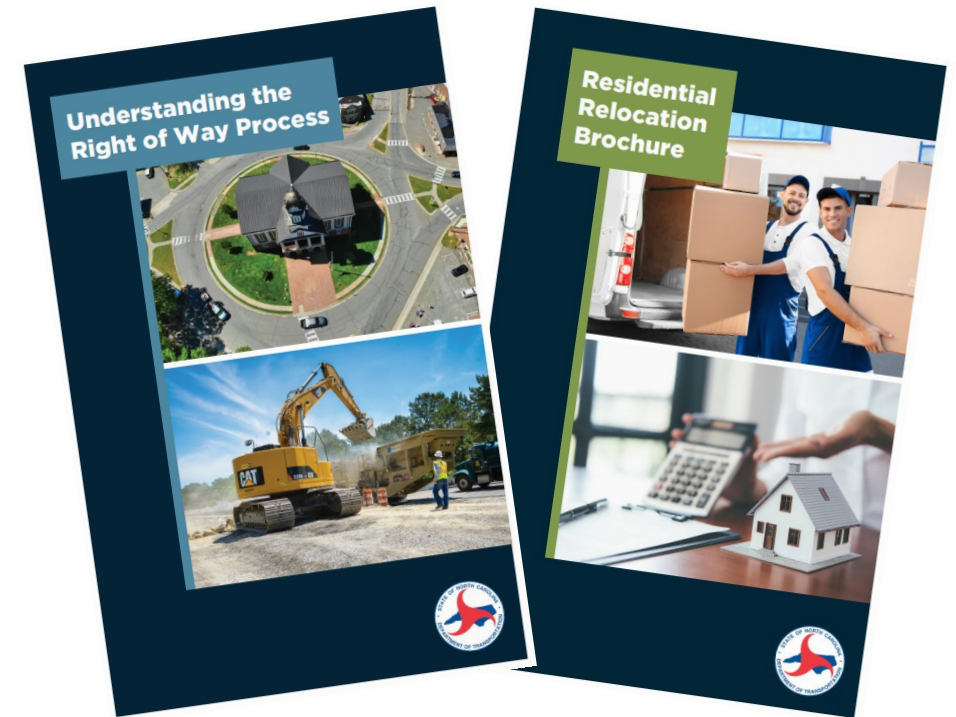
## Right-of-Way Acquisition & Relocation Assistance

NCDOT's Policy is to contact affected property owners and conduct property appraisals

- Treat all owners and tenants equally
- Fully explain the owner's rights
- Provide fair market value for the property
- Provide relocation advisory assistance

### Relocation Assistance

If your business or residence is to be acquired as part of the project, additional assistance in the form of advice and compensation is available.



Your input is important to us!  
Please submit comments in any of the following ways

Speak at the public hearing tonight

Complete a comment form and leave in the box provided tonight

Leave comments on the project webpage  
<https://publicinput.com/Capital-Boulevard-Upgrade>

(email) [Capital-Boulevard-Upgrade@PublicInput.com](mailto:Capital-Boulevard-Upgrade@PublicInput.com)

(leave a message) 984-205-6615 Access Code: 3243  
messages will be transcribed and forwarded to the project team

USPS Mail: Capital Boulevard,  
1598 Mail Service Center  
Raleigh, NC 27699-1598

Comments should be submitted by **July 7, 2023**

# Public Comments

When your name is called, please approach the microphone for the opportunity to comment formally on the U-5307 project.

To ensure everyone has an opportunity to speak comments are limited to **3 minutes**.

If you have more to say than the 3 minutes will allow, please step away and when others have completed their comments you will be allowed to continue your comments.

Your comments are being recorded and a transcript will be provided via the project webpage.



**Please**  
**Speak directly into the microphone**  
**State your name**  
**State your address**  
**Provide your comment**



Comments are being recorded, please speak clearly



Your input is important to us!  
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