## Type I and II Ground Disturbing Categorical Exclusion Action Classification Form

	STIP Project No.	I-5707
	WBS Element	50123.1.1
	Federal Project No.	NHPP-040-4(160)279
A.	City of Durham (see Figure	cated in the southern portion of Durham County and within the e 1). I-40 is a six-lane median divided facility, with a freeway-to-IC 147 and a partial clover interchange with NC 55.
	existing NC 55 exit ramp.	lane will connect the existing I-40 ramp from NC 147 to the The 17-foot-wide outside shoulder will consist of 12 feet of grass with guardrail. No interchange modifications will occur as a
B.	approximately 7,100 vehicles have less than eight	urpose: ast-west freeway through Durham County. Currently, les per day enter I-40 West from NC 147. These vehicles have which to merge into I-40 traffic. At 65 miles per hour (mph), ght seconds to complete this merge, exacerbating already icularly in the afternoon peak traffic period.
	weaving section by connector reduce congestion along	v lane to I-40 West between NC 147 and NC 55 will lengthen the cting the NC 147 entrance ramp to the NC 55 exit ramp in order g I-40 West within the project limits and just upstream of NC 147, in countermeasures can be implemented.
C.	Categorical Exclusion Action	on Classification: (Check one)
		I A
	TYPE	IB
	TYPE	II A
	TYPE	II B

26. Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (including parking, weaving, turning, and climbing lanes), if the action meets the constraints listed in 23 CFR 771.117(e)(1-6).

D. <u>Proposed Improvements</u>

### E. Special Project Information:

### **Traffic Analysis**

The proposed project is shown to substantially improve traffic operations in the 2014 Base Year, essentially eliminating the Level of Service (LOS) E or F operations within the study area. In the Interim Year analysis for 2025 and 2035 the proposed project also shows substantial improvements in the traffic operations within the study area, as the network has LOS E operations with average speeds remaining in excess of 55 mph. Additionally, the proposed project will reduce the duration of congestion and improve the upstream bottleneck where I-40 Westbound reduces from four through lanes to three through lanes following the diverge to NC 147 Northbound. The 2040 Future Year Build analysis shows relatively substantial improvements in both the magnitude and duration of congestion when compared to the No-Build scenario.

#### **Structures**

Two bridges and three culverts will be impacted by construction of the project. Alston Avenue is crossed by I-40 with a bridge. The westbound bridge will be widened as a result of the project. Interstate 40 crosses the CSXT SDS-line with a bridge. The westbound bridge will be widened as a result of the project, and existing horizontal and vertical clearances will be maintained. NCDOT will coordinate with CSXT to ensure impacts to railroad operations are minimized during construction.

### **Jurisdictional Resources**

One potential jurisdictional wetland is located north of the proposed project construction limits (see Figure 2). It is possible the project could impact 247 square feet of the wetland within the proposed right-of-way limits. The potential impacts to wetlands was calculated based on the proposed slope stake limits plus 25 feet, so further minimization of impacts to wetlands is anticipated during final design. If the final design indicates impacts to the wetland, the U.S. Army Corps of Engineers will be consulted to ensure there are no adverse effects.

### **Transit Issues**

Because of the high traffic volumes through the project area, three lanes of through traffic will be maintained throughout construction. However, GoTriangle's current Bus On Shoulder System (BOSS) service will likely need to be suspended through the project area during construction, due to lack of shoulder space. NCDOT will coordinate with GoTriangle during project development to minimize impacts to transit patrons.

#### **Public Involvement**

A newsletter was sent to property owners and tenants in the vicinity of the project. No public comments were received.

### **Cost Estimates**

The estimated project costs are as follows:

Right-of-Way	\$268,000
Utilities	\$55,000
Construction	\$3,550,000
Total Project Cost	\$3,873,000

### F. Project Impact Criteria Checklists:

Type I &	II - Ground Disturbing Actions					
FHWA A	PPROVAL ACTIVITIES THRESHOLD CRITERIA					
If any of questions 1-7 are marked "yes" then the CE will require FHWA approval.  Yes No						
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?		$\boxtimes$			
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGPA)?		$\boxtimes$			
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?		$\boxtimes$			
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?		$\boxtimes$			
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?		$\boxtimes$			
6	Does the project require an Individual Section 4(f) approval?		$\boxtimes$			
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?		$\boxtimes$			
	questions 8 through 31 are marked "yes" then additional information will be requires in Section G.	ed for th	nose			
Other Considerations						
8	Does the project result in a finding of "may affect not likely to adversely affect" or less for listed species, or designated critical habitat under Section 7 of the Endangered Species Act (ESA)?		$\boxtimes$			
9	Does the project impact anadromous fish?		$\boxtimes$			
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?		$\boxtimes$			
11	Does the project impact waters of the United States in any of the designated mountain trout streams?		$\boxtimes$			
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?		$\boxtimes$			
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?		$\boxtimes$			
14	Does the project include a Section 106 of the NHPA effects determination other than a no effect, including archaeological remains?		$\boxtimes$			

Other Considerations (continued)			No
15	Does the project involve hazardous materials and landfills?		$\boxtimes$
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?		$\boxtimes$
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?		$\boxtimes$
18	Does the project require a U.S. Coast Guard (USCG) permit?		$\boxtimes$
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?		$\boxtimes$
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?		$\boxtimes$
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?		$\boxtimes$
22	Does the project involve any changes in access control?		$\boxtimes$
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?		$\boxtimes$
24	Will maintenance of traffic cause substantial disruption?		$\boxtimes$
25	Is the project inconsistent with the STIP or the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP) (where applicable)?		$\boxtimes$
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?		$\boxtimes$
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?		$\boxtimes$
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?		$\boxtimes$
29	Is the project considered a Type I under the NCDOT's Noise Policy?		$\boxtimes$
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?		$\boxtimes$
31	Are there other issues that arose during the project development process that affected the project decision?		$\boxtimes$

# G. Additional Documentation as Required from Section F N/A

### H. Project Commitments

Durham County
I-40 Westbound Auxiliary Lane from NC 55 To NC 147 in Durham
Federal Project No. NHPP-040-4(160)279
WBS No. 50123.1.1
TIP No. I-5707

### **Division 5 and Rail Division**

NCDOT will coordinate with CSXT to ensure impacts to railroad operations are minimized during construction.

### **Division 5**

NCDOT will coordinate with GoTriangle to minimize impacts to transit patrons and the Bus On Shoulder System (BOSS) service during construction.

### **Division 5 and Division of Bicycle and Pedestrian Transportation**

NCDOT will coordinate with the City of Durham and Research Triangle Park to assure appropriate pedestrian and bicycle detours are provided during construction.

Categorical Exclusion Approval STIP Project No. I-5707 **WBS Element** 50123.1.1 Federal Project No. NHPP-040-4(160)279 Prepared By: S. Freeman, PE, Planning Senior Project Manage Date CALYX Engineers & Consultants **Prepared For:** Project Development and Environmental Analysis Unit North Carolina Department of Transportation Reviewed By: 8-11-17 Elmo Vance, Jr., Project Development Engineer Date North Carolina Department of Transportation If all of the threshold questions (1 through 7) of  $\boxtimes$ Approved Section F are answered "no," NCDOT approves this Categorical Exclusion. If any of the threshold questions (1 through 7) of Certified Section F are answered "yes," NCDOT certifies this Categorical Exclusion. Brian Yamamoto, PE, Project Development Group Supervisor North Carolina Department of Transportation FHWA Approved: For Projects Certified by NCDOT (above), FHWA signature required.

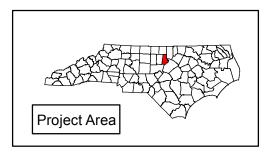
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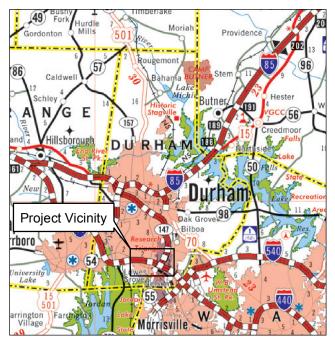
John F. Sullivan, III, PE, Division Administrator

Federal Highway Administration

N/A

Date





### **Project Vicinity**

NCDOT STIP Project I-5707 Construct Westbound I-40 Auxiliary Lane from NC 55 to NC 147 (Durham Freeway) Durham County, North Carolina



