



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H111013

**Mode:** Highway

**Status:** Submitted

### I-40

**From/Cross Street:** NC 147

**To:** Wade Avenue

**Length:** 9.35

**Specific Improvement Type:** 1 - Widen Existing Roadway

**Project Category:** Statewide Mobility

**TIP#:** FS-1205A

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$726,570,000

#### Description:

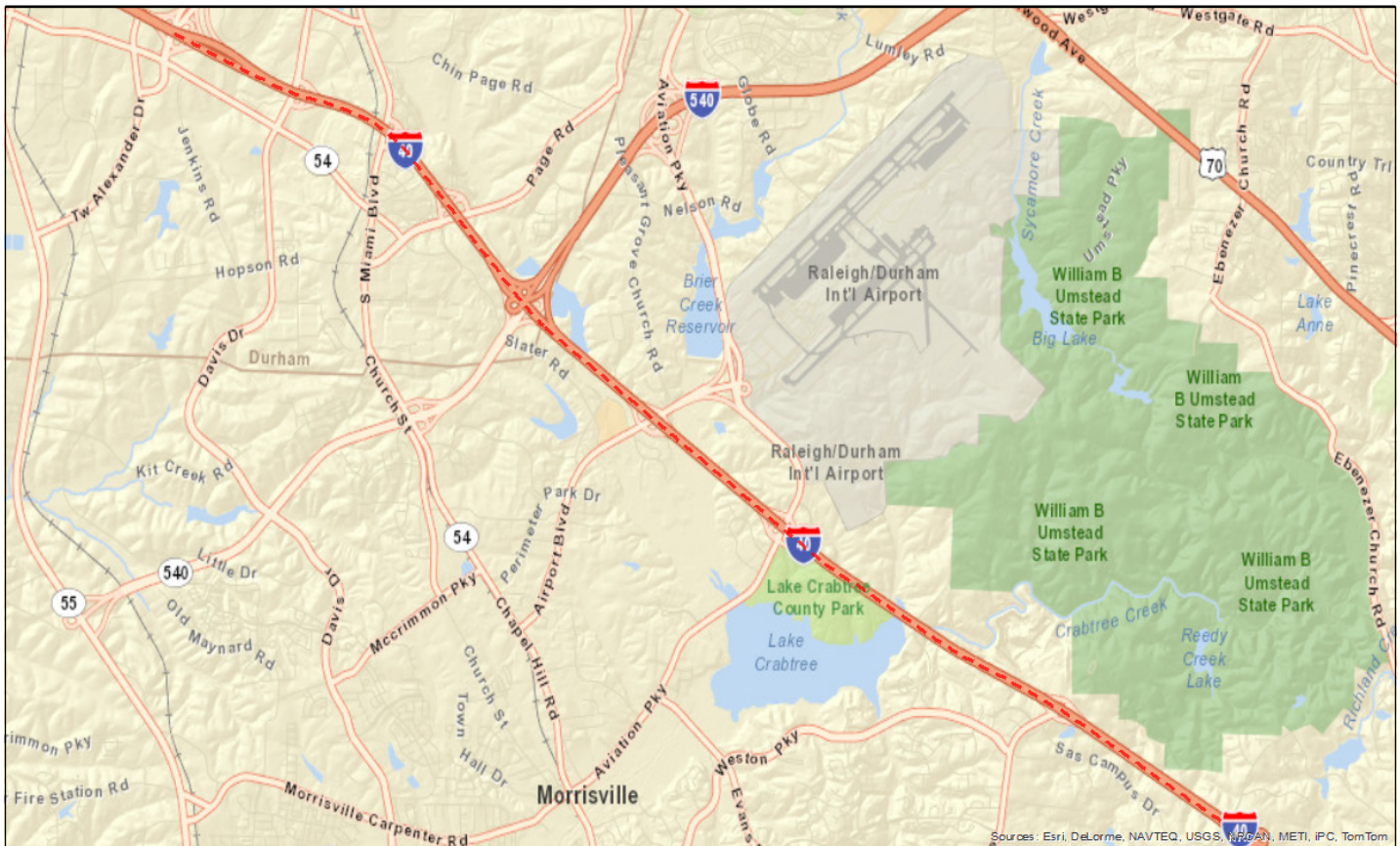
Construct Managed Lanes.

**Division(s):** Division 5

**County(s):** WAKE, DURHAM

**MPOS(s)/RPO(s):** Capital Area MPO, Durham Chapel Hill Carrboro MPO

### Project Location



**Statewide Mobility Total Score: 61.11**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%)	100.00	N/A	N/A
Safety (10%)	79.99		
Economic Competitiveness (10%)	100.00		
Multimodal + [Freight & Military] (20%)	61.16		
[Travel Time] Benefit/Cost (30%)	2.92		
<b>Totals: Weight: 100% Weighted Score: 61.11</b>			

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%)	100.00	Percent: 15% Points:	Percent: 15% Points:
Safety (10%)	79.99		
[Travel Time] Benefit/Cost (25%)	2.92		
Accessibility / Connectivity (10%)	67.08		
<b>Totals: Weight: 70% Weighted Score: 40.44</b>			

**Division Needs Total Score: 0**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%)	100.00	Percent: 25% Points:	Percent: 25% Points:
Safety (10%)	79.99		
[Travel Time] Benefit/Cost (20%)	2.92		
<b>Totals: Weight: 50% Weighted Score: 28.58</b>			

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	65
Length (miles):	9.35
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	153230.79
Capacity:	144750.92
Volume/Capacity Ratio:	1.06
% Autos:	95%
% Trucks:	5%
Truck Volume:	6938.18
Crash Density:	99.81
Crash Severity:	47.44
Critical Crash Rate:	92.75
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	28
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	99
Actual Congested Speed:	55.86
Travel Time Index:	1.12

**Project Benefits**

Project Cross-Section:	12A - 12 Lane Freeway (8 General Purpose Lanes, 4 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders
Speed Limit:	65
Length (miles):	9.35
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	94588270.41
Travel Time Savings for 30 Years (Autos):	90305378.58
Travel Time Savings for 30 Years (Trucks):	4282891.83
Long-Term Employment:	1358
% Change in Economy:	0.00097126
Provides Direct Connection to Transportation Terminal?	Yes
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 5	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Capital Area MPO	64%	0	0
Durham Chapel Hill Carrboro MPO	36%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>0</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$678,880,000	TIP Unit
Right-of-Way Cost:	\$52,960,000	TIP Unit
Utilities Cost:	\$1,960,000	TIP Unit
Total Project Cost:	\$733,800,000	
Other Funding:	\$14,460,000	See below
<b>Cost to NCDOT :</b>	<b>\$726,570,000</b>	

Other Funds:

\$7,230,000 Toll Revenue

\$7,230,000 Toll Revenue less Roadway Maintenance & Financing