



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090931

**Mode:** Highway

**Status:** Submitted

## I-40

**From/Cross Street:** NC 42

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

**To:** NC 210

**Project Category:** Statewide Mobility

**Length:** 6.84

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$78,409,000

### Description:

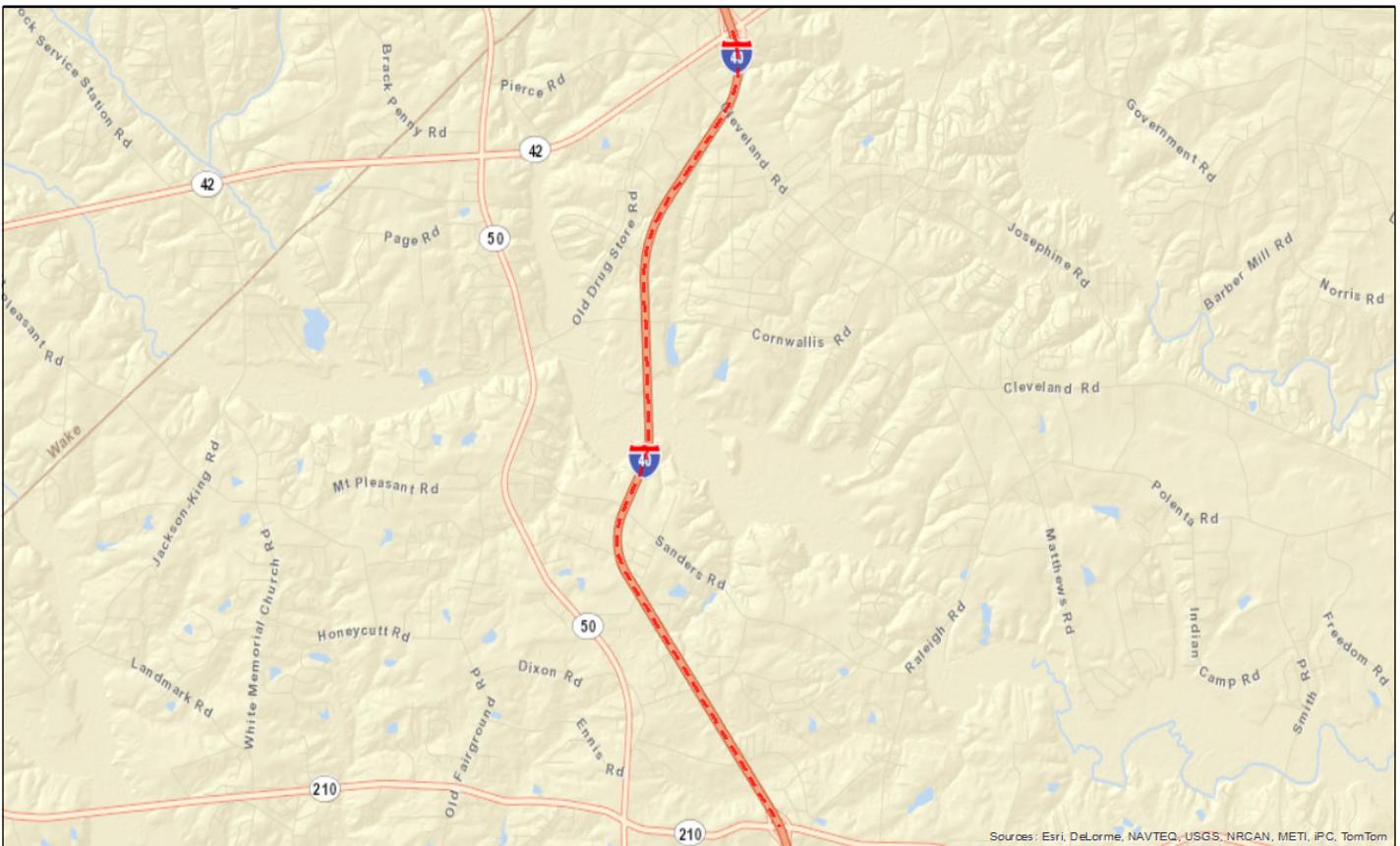
Widen to 6 Lanes

**Division(s):** Division 4

**County(s):** JOHNSTON

**MPOS(s)/RPO(s):** Capital Area MPO

### Project Location



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IFC, TomTom

**Statewide Mobility Total Score: 29.34**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 55.29	N/A	N/A
Safety (10%) 72.48		
Economic Competitiveness (10%) 4.96		
[Travel Time] Benefit/Cost (30%) 0.60		
Multimodal + [Freight & Military] (20%) 24.15		
<b>Totals: Weight: 100% Weighted Score: 29.34</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Lane Width (10%) 0.00	Percent: 15% Points:	Percent: 15% Points:
[Paved] Shoulder Width (10%) 0.00		
[Travel Time] Benefit/Cost (20%) 0.60		
Congestion (V/C) (15%) 55.29		
Safety (15%) 72.48		
<b>Totals: Weight: 70% Weighted Score: 19.29</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) (10%) 55.29	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 72.48		
Lane Width (10%) 0.00		
[Paved] Shoulder Width (10%) 0.00		
[Travel Time] Benefit/Cost (10%) 0.60		
<b>Totals: Weight: 50% Weighted Score: 12.84</b>		

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

Existing Cross-Section:	
Speed Limit:	70
Length (miles):	6.84
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):	45000
Capacity:	72400
Volume/Capacity Ratio:	0.62
% Autos:	89%
% Trucks:	11%
Truck Volume:	4830
Crash Density:	77.98
Crash Severity:	61.49
Critical Crash Rate:	77.98
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	29
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	93
Actual Congested Speed:	65.87
Travel Time Index:	1.06

**Project Benefits**

Project Cross-Section:	6A - 6 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	6.84
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):	2057261
Travel Time Savings for 30 Years (Autos):	1836448.32
Travel Time Savings for 30 Years (Trucks):	220812.68
Long-Term Employment:	34
% Change in Economy:	6.52E-05
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 4

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

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 4	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	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>0</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$74,556,000	TIP Unit
Right-of-Way Cost:	\$3,440,000	Cost Estimation Tool
Utilities Cost:	\$413,000	Cost Estimation Tool
Total Project Cost:	\$78,409,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$78,409,000</b>	