



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090036-AB

**Mode:** Highway

**Status:** Submitted

## I-77

**From/Cross Street:** SR 5544 (West Catawba Avenue)

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

**To:** NC 150

**Project Category:** Statewide Mobility

**Length:** 7.78

**TIP#:** I-4750AB

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$166,000,000

### Description:

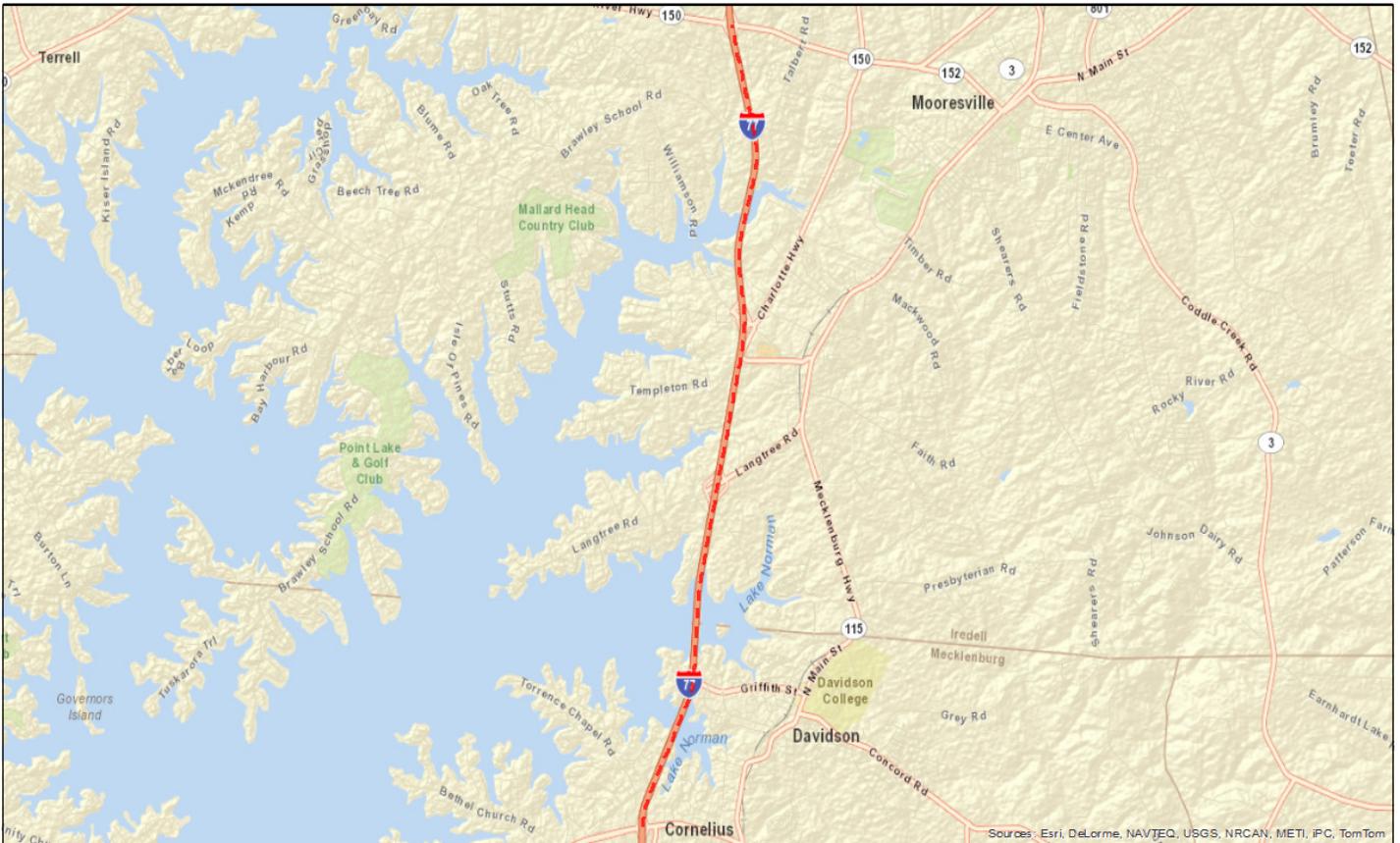
Add General Purpose Lanes.

**Division(s):** Division 12, Division 10

**County(s):** IREDELL, MECKLENBURG

**MPOS(s)/RPO(s):** Charlotte Regional Transportation Planning Organization

### Project Location



**Statewide Mobility Total Score: 39.09**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
[Travel Time] Benefit/Cost (30%) 0.79 Congestion (V/C) (30%) 72.42 Safety (10%) 73.79 Economic Competitiveness (10%) 14.32 Multimodal + [Freight & Military] (20%) 41.58	N/A	N/A
<b>Totals: Weight: 100% Weighted Score: 39.09</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%) 72.42 Safety (10%) 73.79 [Travel Time] Benefit/Cost (25%) 0.79 Accessibility / Connectivity (10%) 37.35	Percent: 15% Points:	Percent: 15% Points:
<b>Totals: Weight: 70% Weighted Score: 29.42</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%) 72.42 Safety (10%) 73.79 [Travel Time] Benefit/Cost (20%) 0.79	Percent: 25% Points:	Percent: 25% Points:
<b>Totals: Weight: 50% Weighted Score: 22.02</b>		

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

Existing Cross-Section:	
Speed Limit:	65
Length (miles):	7.78
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):	76057.18
Capacity:	108659
Volume/Capacity Ratio:	0.7
% Autos:	89%
% Trucks:	11%
Truck Volume:	8316.41
Crash Density:	80.57
Crash Severity:	64.55
Critical Crash Rate:	76.29
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	26
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	99
Actual Congested Speed:	52.61
Travel Time Index:	1.18

**Project Benefits**

Project Cross-Section:	8B - 8 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	65
Length (miles):	7.78
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):	5680294.38
Travel Time Savings for 30 Years (Autos):	5059186.98
Travel Time Savings for 30 Years (Trucks):	621107.4
Long-Term Employment:	101.17
% Change in Economy:	0.0001852
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 10

\* 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 12	74%	0	0
Division 10	26%	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>
Charlotte Regional Transportation Planning Organization	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:	\$141,000,000	TIP Unit
Right-of-Way Cost:	\$25,000,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$166,000,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$166,000,000</b>	