



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111184

Mode: Highway

Status: Submitted

I-40

From/Cross Street: Radio Road

Specific Improvement Type: 1 - Widen Existing Roadway

To: Catawba River

Project Category: Statewide Mobility

Length: 11.23

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$154,608,000

Description:

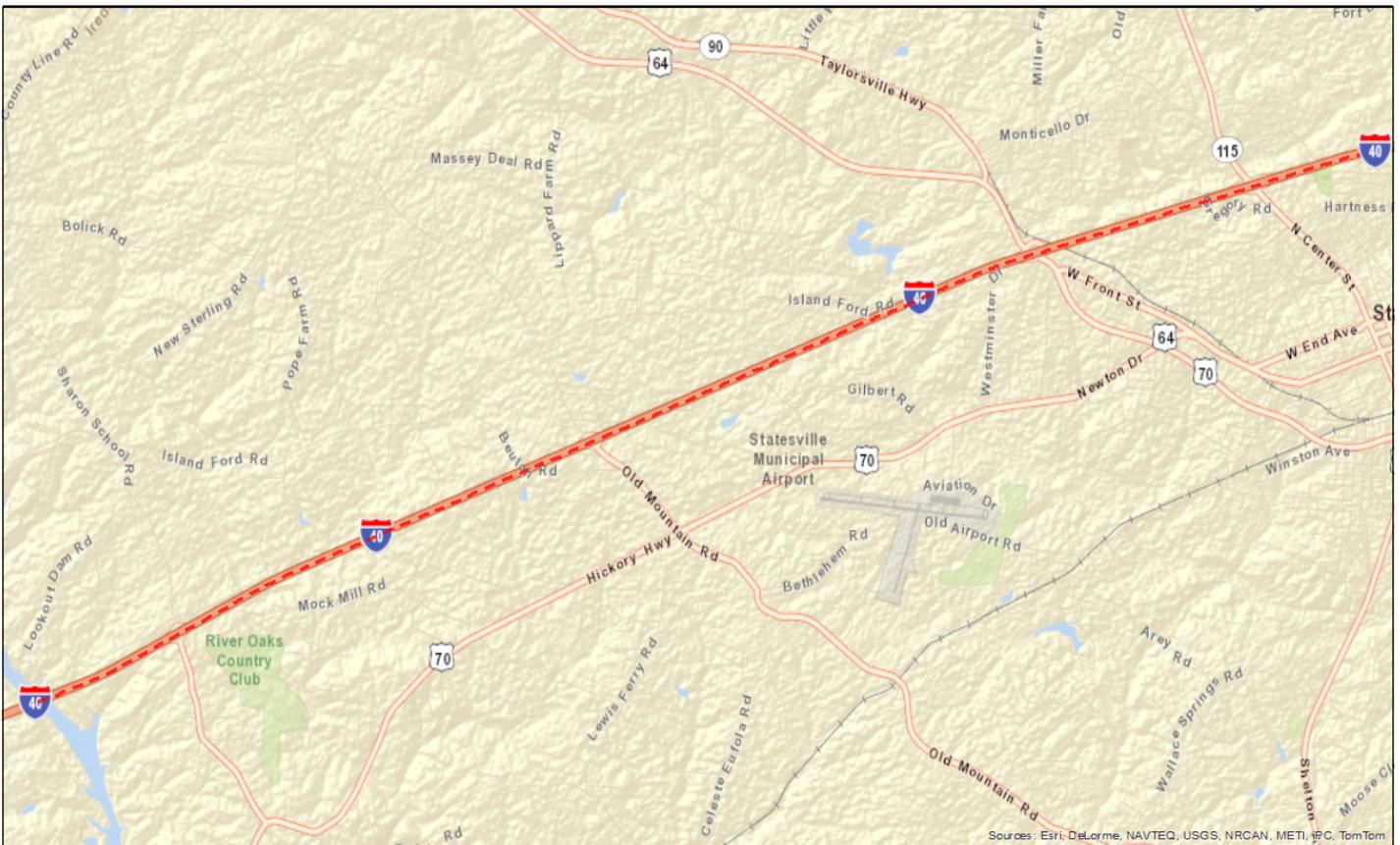
I-40 Widen to 6 Lanes from Statesville to the Catawba County Line.

Division(s): Division 12

County(s): IREDELL, CATAWBA

MPOS(s)/RPO(s): Charlotte Regional Transportation Planning Organization, Greater Hickory MPO

Project Location



Statewide Mobility Total Score: 28.75

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (30%) 0.96 Congestion (V/C) (30%) 49.57 Safety (10%) 67.55 Economic Competitiveness (10%) 15.97 Multimodal + [Freight & Military] (20%) 26.22	N/A	N/A
Totals: Weight: 100% Weighted Score: 28.75		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 49.57 Safety (10%) 67.55 [Travel Time] Benefit/Cost (25%) 0.96 Accessibility / Connectivity (10%) 14.87	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 20.87		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 49.57 Safety (10%) 67.55 [Travel Time] Benefit/Cost (20%) 0.96	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 16.86		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	65
Length (miles):	11.23
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	9
Roadway has Curb & Gutter?	No
Volume (AADT):	38624.17
Capacity:	67919.92
Volume/Capacity Ratio:	0.57
% Autos:	86%
% Trucks:	14%
Truck Volume:	5244.32
Crash Density:	71.77
Crash Severity:	47.27
Critical Crash Rate:	83.62
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	21
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	77
Actual Congested Speed:	57.22
Travel Time Index:	1.13

Project Benefits

Project Cross-Section:	6A - 6 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	11.23
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):	6359061.89
Travel Time Savings for 30 Years (Autos):	5495640.15
Travel Time Savings for 30 Years (Trucks):	863421.74
Long-Term Employment:	112
% Change in Economy:	0.00020734
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 12

* 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

Division	Percent	Regional Impact	Division Needs
Division 12	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Charlotte Regional Transportation Planning Organization	100%	0	0
Greater Hickory MPO	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$148,200,000	TIP Unit
Right-of-Way Cost:	\$5,721,000	Cost Estimation Tool
Utilities Cost:	\$687,000	Cost Estimation Tool
Total Project Cost:	\$154,608,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$154,608,000	