



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111131

Mode: Highway

Status: Submitted

I-40

From/Cross Street: NC 147

Specific Improvement Type: 1 - Widen Existing Roadway

To: US 15/501

Project Category: Statewide Mobility

Length: 9.22

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$497,380,000

Description:

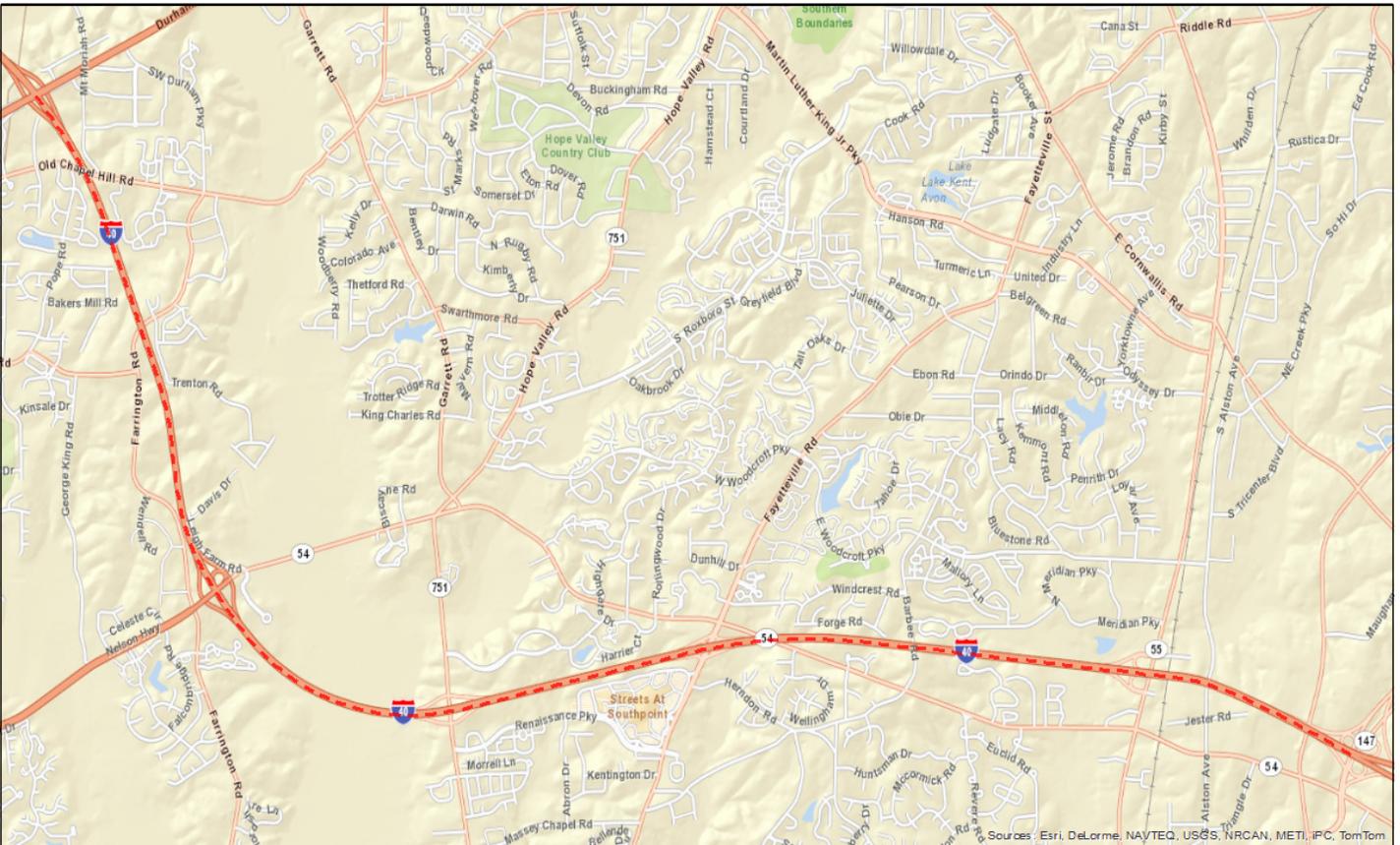
Construct 1 Managed Lane Per Direction (Additional 16Ft of Pavement - 12Ft Lanes + 4Ft Pavement For Separation with General Purpose Lanes).

Division(s): Division 5

County(s): DURHAM

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO

Project Location



Statewide Mobility Total Score: 48.76

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 100.00 Safety (10%) 60.18 Economic Competitiveness (10%) 68.98 Multimodal + [Freight & Military] (20%) 25.43 [Travel Time] Benefit/Cost (30%) 2.53	N/A	N/A
Totals: Weight: 100% Weighted Score: 48.76		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 100.00 Safety (10%) 60.18 [Travel Time] Benefit/Cost (25%) 2.53 Accessibility / Connectivity (10%) 35.90	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 35.24		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 100.00 Safety (10%) 60.18 [Travel Time] Benefit/Cost (20%) 2.53	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 26.52		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	65
Length (miles);	9.22
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):	107688.76
Capacity:	108507.49
Volume/Capacity Ratio:	0.99
% Autos:	95%
% Trucks:	5%
Truck Volume:	5085.3
Crash Density:	72.75
Crash Severity:	49.51
Critical Crash Rate:	58.31
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	18
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	98
Actual Congested Speed:	60.57
Travel Time Index:	1.06

Project Benefits

Project Cross-Section:	8D - 8 Lane Freeway (6 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders
Speed Limit:	65
Length (miles):	9.22
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):	55988106.27
Travel Time Savings for 30 Years (Autos):	53344225.52
Travel Time Savings for 30 Years (Trucks):	2643880.75
Long-Term Employment:	804
% Change in Economy:	0.0005756
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 5

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

