



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141018

Mode: Highway

Status: Submitted

NC-147 (Durham Freeway)

From/Cross Street: East End Connector

Specific Improvement Type: 1 - Widen Existing Roadway

To: US 15-501

Project Category: Statewide Mobility

Length: 5.88

TIP#: -

Fully Funded in Draft STIP? No

Cost to NCDOT: \$87,452,000

Description:

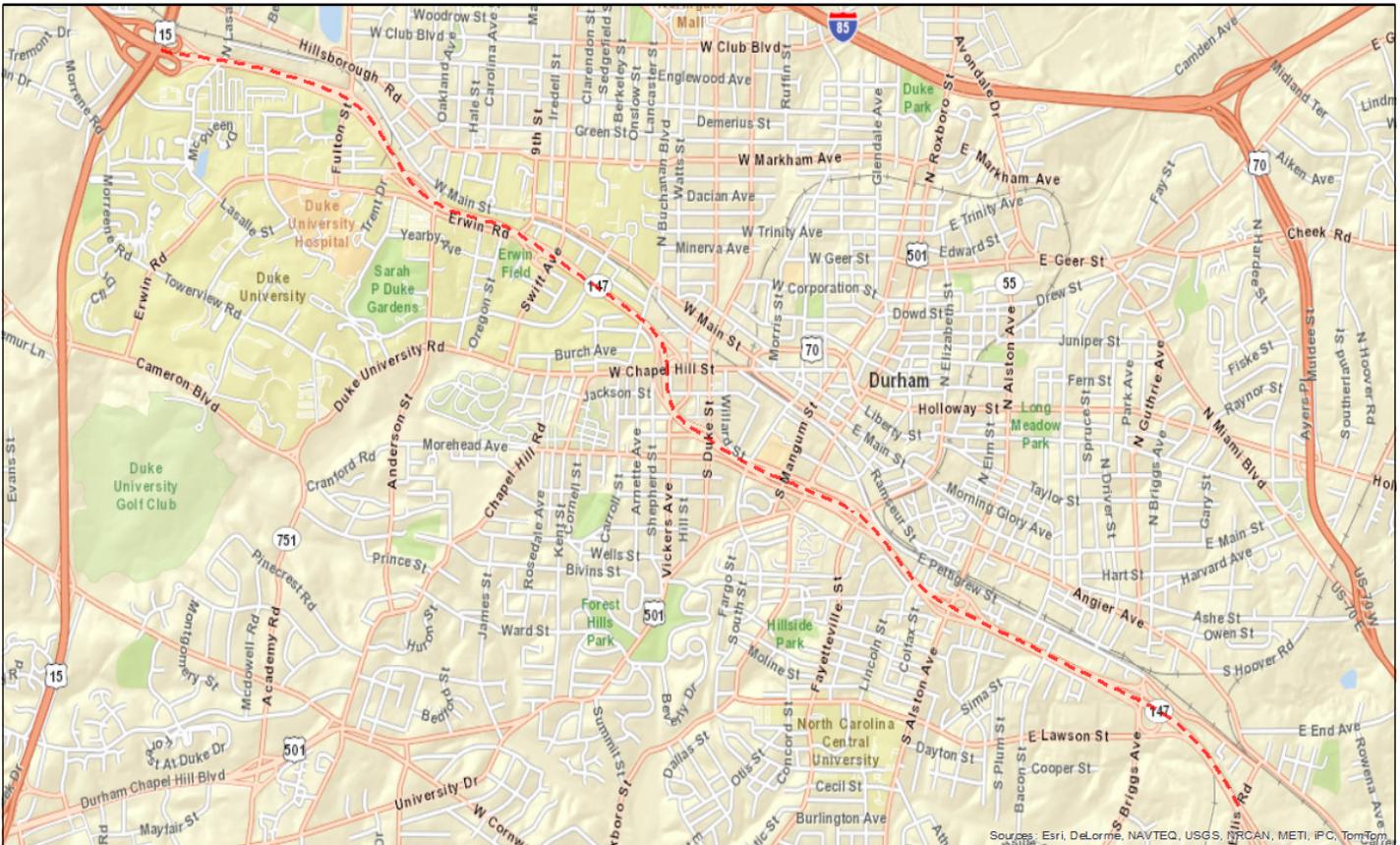
Widen to 6 lanes

Division(s): Division 5

County(s): DURHAM

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

Project Location



Statewide Mobility Total Score: 31.69

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 70.31	N/A	N/A
Safety (10%) 71.18		
Economic Competitiveness (10%) 10.74		
Multimodal + [Freight & Military] (20%) 9.03		
[Travel Time] Benefit/Cost (30%) 1.98		
Totals: Weight: 100% Weighted Score: 31.69		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 70.31	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 71.18		
[Travel Time] Benefit/Cost (25%) 1.98		
Accessibility / Connectivity (10%) 19.08		
Totals: Weight: 70% Weighted Score: 27.1		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 70.31	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 71.18		
[Travel Time] Benefit/Cost (20%) 1.98		
Totals: Weight: 50% Weighted Score: 21.58		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	58
Length (miles):	5.88
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	57225.95
Capacity:	72400.82
Volume/Capacity Ratio:	0.79
% Autos:	97%
% Trucks:	3%
Truck Volume:	1806.51
Crash Density:	86.42
Crash Severity:	49.21
Critical Crash Rate:	77.94
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	57
Actual Congested Speed:	56.46
Travel Time Index:	0.97

Project Benefits

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	58
Length (miles):	5.88
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	7698338.17
Travel Time Savings for 30 Years (Autos):	7455317.02
Travel Time Savings for 30 Years (Trucks):	243021.15
Long-Term Employment:	125.51
% Change in Economy:	8.93E-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 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.

Project Ownership

Division

Division	Percent	Regional Impact	Division Needs
Division 5	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Durham Chapel Hill Carrboro MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$86,190,000	Cost Estimation Tool
Right-of-Way Cost:	\$1,127,000	Cost Estimation Tool
Utilities Cost:	\$135,000	Cost Estimation Tool
Total Project Cost:	\$87,452,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$87,452,000	