



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090675

Mode: Highway

Status: Submitted

NC-73 (Davidson Highway)

From/Cross Street: US 29

Specific Improvement Type: 1 - Widen Existing Roadway

To: Poplar Tent Road

Project Category: Regional Impact

Length: 8.92

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$93,500,000

Description:

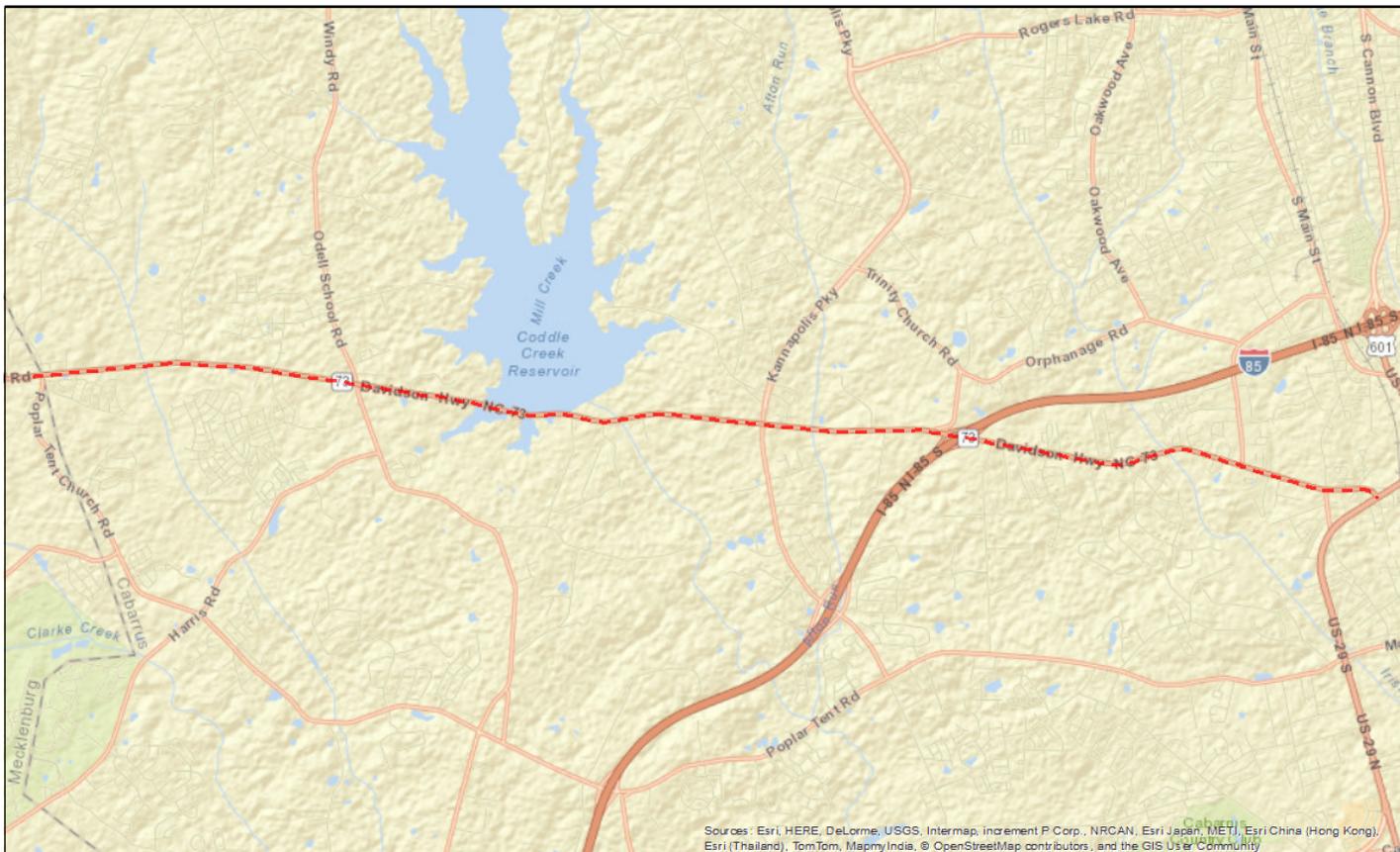
Widen NC 73 from 2 Lanes to 4 Lanes from US 29 to Cabarrus County Line.

Division(s): Division 10

County(s): CABARRUS

MPOS(s)/RPO(s): Cabarrus Rowan MPO

Project Location



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
	N/A	N/A
Totals: Weight: 0% Weighted Score: 0		

Regional Impact Total Score: 56.64

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (25%) 3.44	Percent: 15% Points: 100	Percent: 15% Points: 100
Accessibility / Connectivity (10%) 15.32		
Congestion (V/C) (25%) 67.46		
Safety (10%) 73.81		
Totals: Weight: 70% Weighted Score: 26.64		

Division Needs Total Score: 46.56

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 67.46	Percent: 25% Points: 0	Percent: 25% Points: 100
Safety (10%) 73.81		
[Travel Time] Benefit/Cost (20%) 3.44		
Totals: Weight: 50% Weighted Score: 21.56		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	49
Length (miles):	8.92
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	15952.46
Capacity:	15669.69
Volume/Capacity Ratio:	1.02
% Autos:	93%
% Trucks:	7%
Truck Volume:	1127.13
Crash Density:	90.49
Crash Severity:	59.12
Critical Crash Rate:	71.86
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	25
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	81
Actual Congested Speed:	38.99
Travel Time Index:	1.25

Project Benefits

Project Cross-Section:	4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	8.92
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	14189582.25
Travel Time Savings for 30 Years (Autos):	13187005.7
Travel Time Savings for 30 Years (Trucks):	1002576.55
Long-Term Employment:	
% Change in Economy:	
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

Division	Percent	Regional Impact	Division Needs
Division 10	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Cabarrus Rowan MPO	100%	100	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$74,100,000	TIP Unit
Right-of-Way Cost:	\$17,321,000	Cost Estimation Tool
Utilities Cost:	\$2,079,000	Cost Estimation Tool
Total Project Cost:	\$93,500,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$93,500,000	