



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140410

Mode: Highway

Status: Submitted

NC-49 (University City Boulevard)

From/Cross Street: John Kirk Road

Specific Improvement Type: 1 - Widen Existing Roadway

To: Interstate 485

Project Category: Statewide Mobility

Length: 1.13

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$5,948,000

Description:

Widen existing roadway from a four-lane median divided roadway to a six-lane median divided facility with sidewalks and bike lanes on each side. This project will provide additional capacity to a major travel route in northeast Charlotte, improving access to the University area. SHOULD BE CROSS SECTION 6E, but it couldnt be selected

Division(s): Division 10

County(s): MECKLENBURG

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

Project Location



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IPC, TomTom

Statewide Mobility Total Score: 41.39

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Multimodal + [Freight & Military] (20%) 7.41 [Travel Time] Benefit/Cost (30%) 21.81 Congestion (V/C) (30%) 81.07 Safety (10%) 82.53 Economic Competitiveness (10%) 7.88	N/A	N/A
Totals: Weight: 100% Weighted Score: 41.39		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 81.07 Safety (10%) 82.53 [Travel Time] Benefit/Cost (25%) 21.81 Accessibility / Connectivity (10%) 23.79	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 36.35		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 81.07 Safety (10%) 82.53 [Travel Time] Benefit/Cost (20%) 21.81	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 28.83		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	1.13
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	35359.05
Capacity:	31700
Volume/Capacity Ratio:	1.12
% Autos:	96%
% Trucks:	4%
Truck Volume:	1482.7
Crash Density:	90.57
Crash Severity:	66.47
Critical Crash Rate:	90.57
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:	92
Actual Congested Speed:	27.4
Travel Time Index:	1.64

Project Benefits

Project Cross-Section:	6E - 6 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.13
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):	5794217
Travel Time Savings for 30 Years (Autos):	5551249.32
Travel Time Savings for 30 Years (Trucks):	242967.68
Long-Term Employment:	93.35
% Change in Economy:	6.42E-05
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	2040 Metropolitan Transportation Plan
CTP/LRTP Completion Year:	2014
Submitted by:	Charlotte Regional Transportation Planning Organization

* 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%	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
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$5,948,000	Cost Estimation Tool
Right-of-Way Cost:	\$0	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$5,948,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$5,948,000	