



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090379

Mode: Highway

Status: Submitted

US-21

From/Cross Street: US 64

Specific Improvement Type: 1 - Widen Existing Roadway

To: Carolina Avenue

Project Category: Regional Impact

Length: 0.83

TIP#: U-2930

Fully Funded in Draft STIP? No

Cost to NCDOT: \$28,700,000

Description:

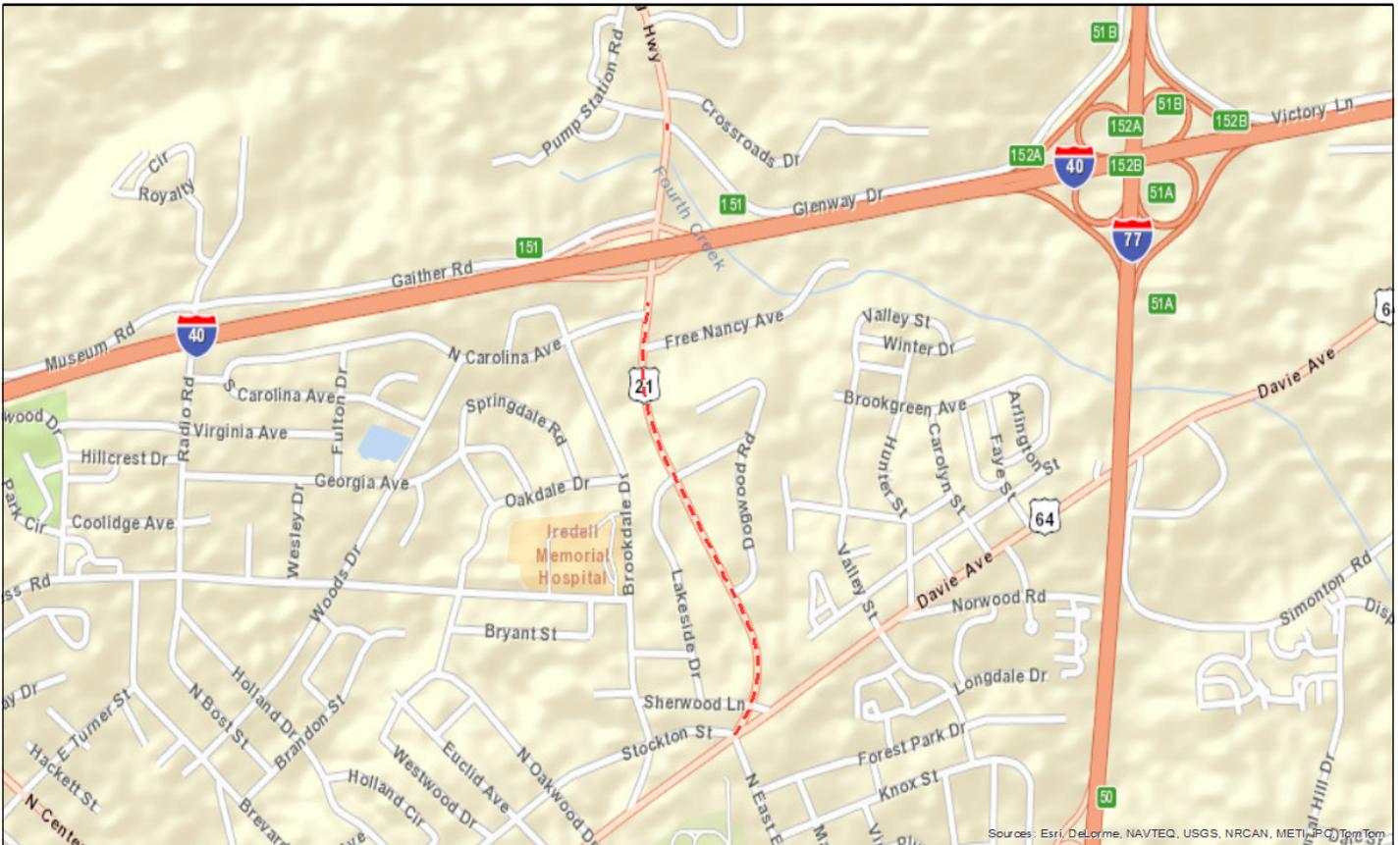
Widen to Multi-Lanes

Division(s): Division 12

County(s): IREDELL

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

Project Location



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: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 57.42	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 72.36		
[Travel Time] Benefit/Cost (25%) 0.93		
Accessibility / Connectivity (10%) 4.68		
Totals: Weight: 70% Weighted Score: 22.29		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 57.42	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 72.36		
[Travel Time] Benefit/Cost (20%) 0.93		
Totals: Weight: 50% Weighted Score: 18.91		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	35
Length (miles):	0.83
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	14025.16
Capacity:	16242.54
Volume/Capacity Ratio:	0.86
% Autos:	98%
% Trucks:	2%
Truck Volume:	246.17
Crash Density:	75.75
Crash Severity:	66.54
Critical Crash Rate:	74.82
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):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	25.91
Travel Time Index:	1.34

Project Benefits

Project Cross-Section:	4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks
Speed Limit:	35
Length (miles):	0.83
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1203976.4
Travel Time Savings for 30 Years (Autos):	1182844.3
Travel Time Savings for 30 Years (Trucks):	21132.1
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 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
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$22,344,000	TIP Unit
Right-of-Way Cost:	\$5,675,000	Cost Estimation Tool
Utilities Cost:	\$681,000	Cost Estimation Tool
Total Project Cost:	\$28,700,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$28,700,000	