



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090540

Mode: Highway

Status: Submitted

US-21

From/Cross Street: NC 150

Specific Improvement Type: 1 - Widen Existing Roadway

To: Cedar Lane

Project Category: Regional Impact

Length: 9.15

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$77,840,000

Description:

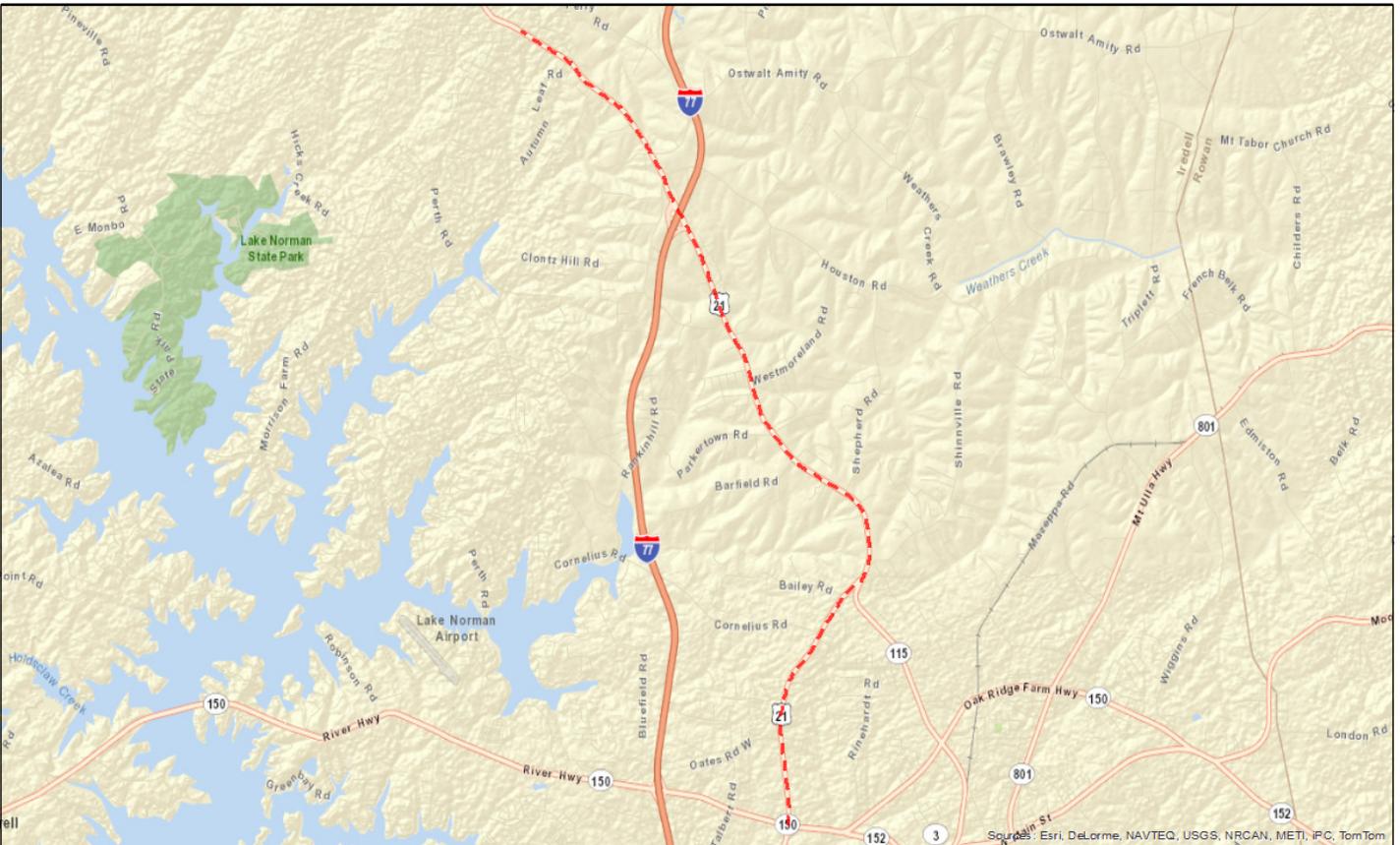
Improve US 21 from NC 150 in Mooresville North to Cedar Lane in Downtown Troutman. Widen to 4 Lanes with Bicycle Accommodations.

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%) 55.48	Percent: 15% Points:	Percent: 15% Points:
[Travel Time] Benefit/Cost (25%) 1.90		
Accessibility / Connectivity (10%) 10.38		
Safety (10%) 61.88		
Totals: Weight: 70% Weighted Score: 21.57		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%) 1.90	Percent: 25% Points:	Percent: 25% Points:
Congestion (V/C) (20%) 55.48		
Safety (10%) 61.88		
Totals: Weight: 50% Weighted Score: 17.66		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	48
Length (miles);	9.15
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	13129.48
Capacity:	15684.59
Volume/Capacity Ratio:	0.84
% Autos:	94%
% Trucks:	6%
Truck Volume:	800.21
Crash Density:	78
Crash Severity:	52.87
Critical Crash Rate:	54.78
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	90
Actual Congested Speed:	38.3
Travel Time Index:	1.23

Project Benefits

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	9.15
Facility Type:	Arterial
Access Control:	None
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):	6551492.72
Travel Time Savings for 30 Years (Autos):	6152192.87
Travel Time Savings for 30 Years (Trucks):	399299.85
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:	\$64,980,000	TIP Unit
Right-of-Way Cost:	\$11,482,000	Cost Estimation Tool
Utilities Cost:	\$1,378,000	Cost Estimation Tool
Total Project Cost:	\$77,840,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$77,840,000	