



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090760

Mode: Highway

Status: Submitted

US-421

From/Cross Street: US 401

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 87

Project Category: Regional Impact

Length: 18.39

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$152,614,000

Description:

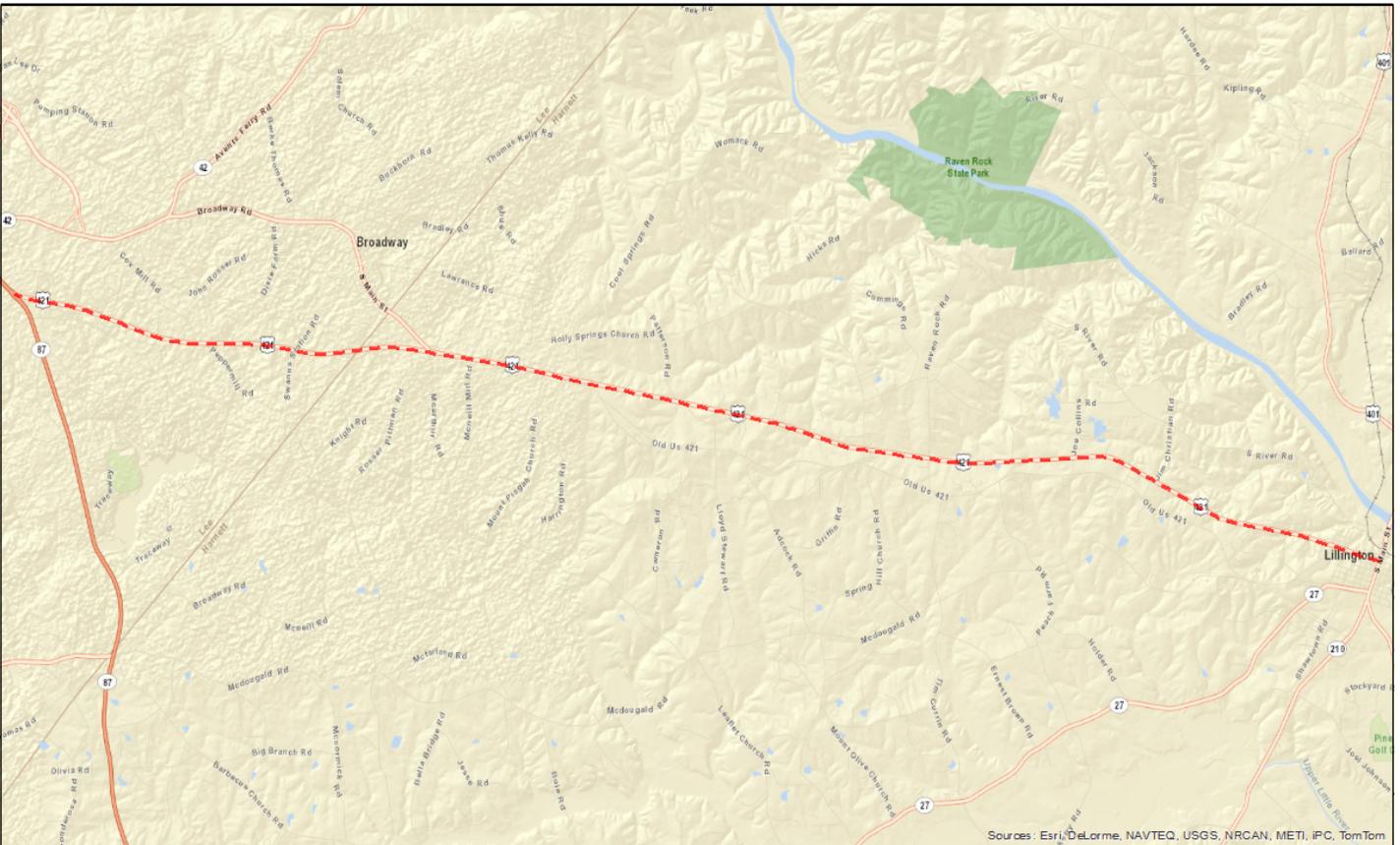
Widen to Multi-Lanes and Enhance Corridor from Lillington in Harnett County to Sanford in Lee County.

Division(s): Division 6, Division 8

County(s): HARNETT, LEE

MPOS(s)/RPO(s): Mid-Carolina RPO, Triangle Area RPO

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
[Travel Time] Benefit/Cost (25%) 0.21	Percent: 15% Points:	Percent: 15% Points:
Accessibility / Connectivity (10%) 30.28		
Congestion (V/C) (25%) 28.39		
Safety (10%) 56.23		
Totals: Weight: 70% Weighted Score: 15.8		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 28.39	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 56.23		
[Travel Time] Benefit/Cost (20%) 0.21		
Totals: Weight: 50% Weighted Score: 11.34		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	53
Length (miles):	18.39
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	6853.92
Capacity:	16034.21
Volume/Capacity Ratio:	0.43
% Autos:	91%
% Trucks:	9%
Truck Volume:	613.65
Crash Density:	62.93
Crash Severity:	59.13
Critical Crash Rate:	46.66
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	26
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	90
Actual Congested Speed:	52.82
Travel Time Index:	1

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	18.39
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	1416794.54
Travel Time Savings for 30 Years (Autos):	1289945.07
Travel Time Savings for 30 Years (Trucks):	126849.47
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 6

* 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 6	75%	0	0
Division 8	25%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Mid-Carolina RPO	75%	0	0
Triangle Area RPO	25%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$119,130,000	TIP Unit
Right-of-Way Cost:	\$29,896,000	Cost Estimation Tool
Utilities Cost:	\$3,588,000	Cost Estimation Tool
Total Project Cost:	\$152,614,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$152,614,000	