



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090430

Mode: Highway

Status: Submitted

(New Route - NC 127-US 321 Connector)

From/Cross Street: from 29Th Avenue Drive, Nw in Hickory

Specific Improvement Type: 5 - Construct Roadway on New Location

To: SR 1751 (Grace Chapel Road) in Caldwell County

Project Category: Division Needs

Length: 1.05

TIP#: U-3614

Fully Funded in Draft STIP? No

Cost to NCDOT: \$31,331,000

Description:

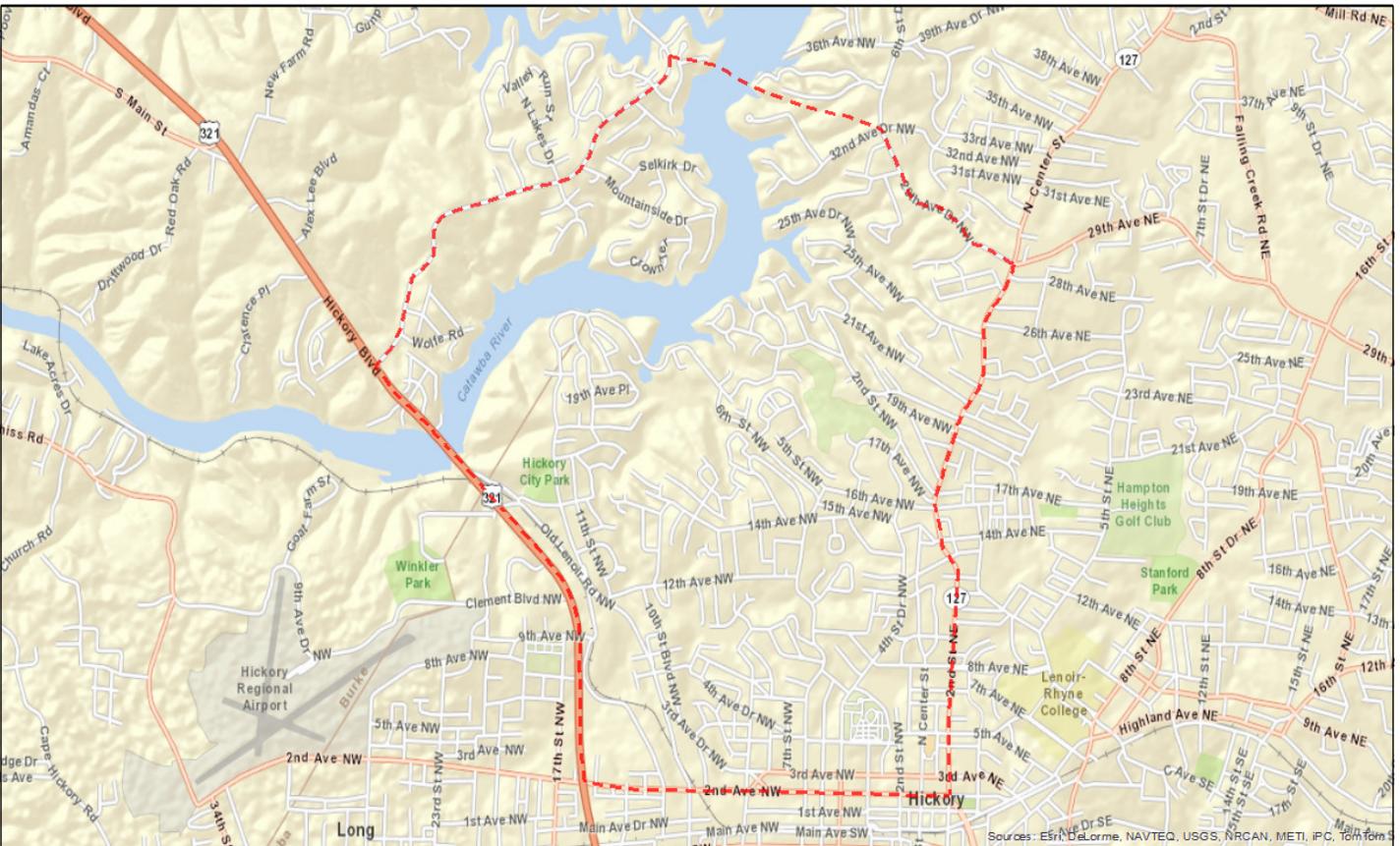
US 321 to NC 127. Two Lanes on Four Lane Right of Way, Some New Location. from 29Th Avenue Drive, Nw in Hickory to Grace Chapel Road in Caldwell County.

Division(s): Division 12, Division 11

County(s): CATAWBA, CALDWELL

MPOS(s)/RPO(s): Greater Hickory MPO

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
	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 0% Weighted Score: 0		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 51.26 Safety (10%) 49.16 [Travel Time] Benefit/Cost (20%) 38.39	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 22.84		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	38
Length (miles);	7.7
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	19125.66
Capacity:	26316.76
Volume/Capacity Ratio:	0.73
% Autos:	94%
% Trucks:	6%
Truck Volume:	1159.54
Crash Density:	57.93
Crash Severity:	44.54
Critical Crash Rate:	45.04
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	17
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	8.5
Travel Time Index:	1.06

Project Benefits

Project Cross-Section:	4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks
Speed Limit:	40
Length (miles):	1.05
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	53320057.61
Travel Time Savings for 30 Years (Autos):	50087404.94
Travel Time Savings for 30 Years (Trucks):	3232652.67
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 11

* 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	70%	0	0
Division 11	30%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Greater Hickory MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$28,728,000	TIP Unit
Right-of-Way Cost:	\$2,324,000	Cost Estimation Tool
Utilities Cost:	\$279,000	Cost Estimation Tool
Total Project Cost:	\$31,331,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$31,331,000	