



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090060

Mode: Highway

Status: Submitted

NC-24, NC-27 (New Route - Carthage Bypass)

From/Cross Street: SR 1640

Specific Improvement Type: 5 - Construct Roadway on New Location

To: SR 1653

Project Category: Statewide Mobility

Length: 3.98

TIP#: R-2212

Fully Funded in Draft STIP? No

Cost to NCDOT: \$40,785,000

Description:

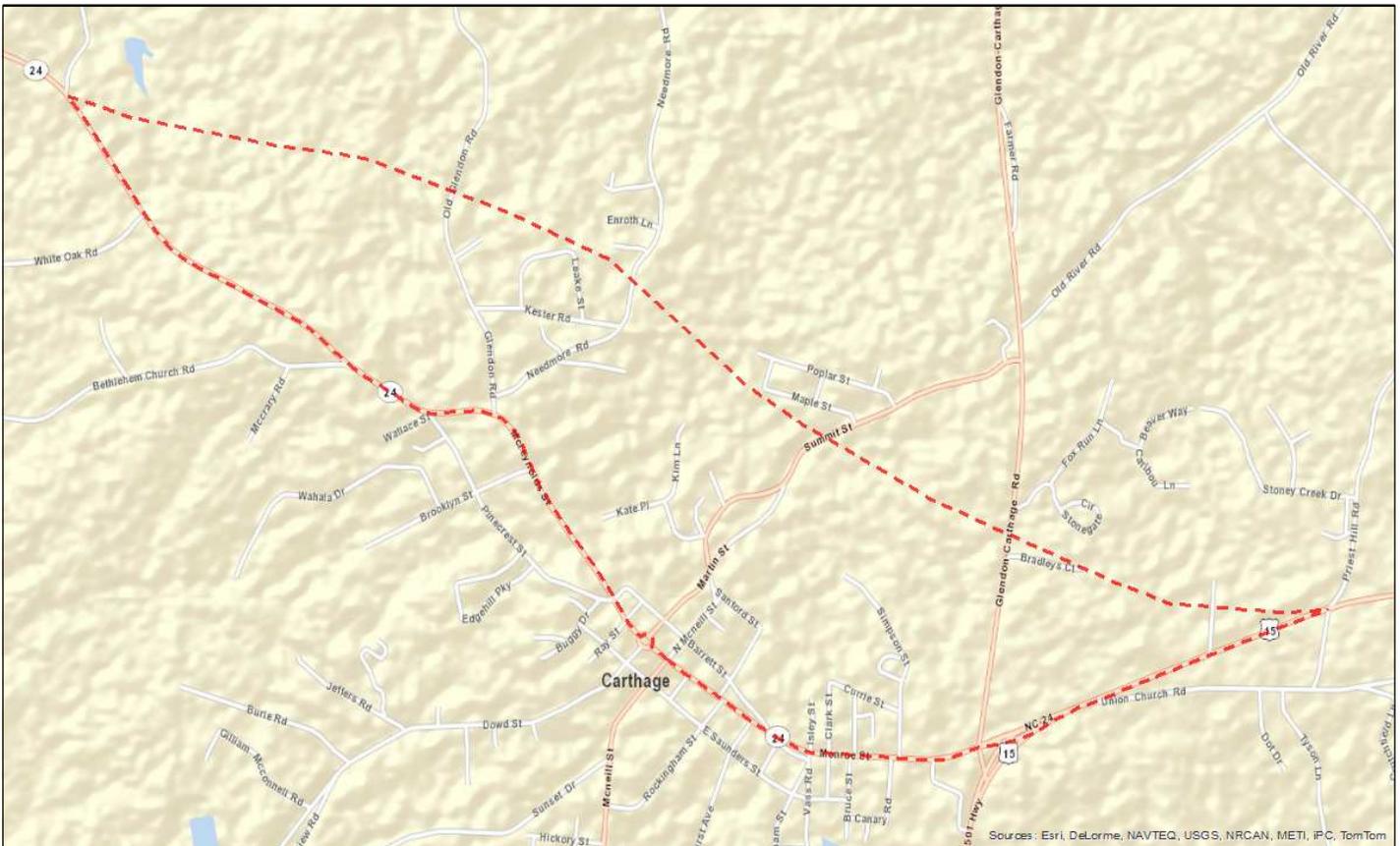
Construct Multi-Lanes on New Location.

Division(s): Division 8

County(s): MOORE

MPOS(s)/RPO(s): Triangle Area RPO

Project Location



Statewide Mobility Total Score: 21.89

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 42.14	N/A	N/A
Safety (10%) 34.61		
Economic Competitiveness (10%) 32.93		
Multimodal + [Freight & Military] (20%) 4.06		
[Travel Time] Benefit/Cost (30%) 5.60		
Totals: Weight: 100% Weighted Score: 21.89		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Accessibility / Connectivity (10%) 37.29	Percent: 15% Points:	Percent: 15% Points:
Congestion (V/C) (25%) 42.14		
Safety (10%) 34.61		
[Travel Time] Benefit/Cost (25%) 5.60		
Totals: Weight: 70% Weighted Score: 19.12		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%) 5.60	Percent: 25% Points:	Percent: 25% Points:
Congestion (V/C) (20%) 42.14		
Safety (10%) 34.61		
Totals: Weight: 50% Weighted Score: 13.01		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	41
Length (miles):	4.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Major Collector
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	No
Volume (AADT):	9983.38
Capacity:	15704.47
Volume/Capacity Ratio:	0.64
% Autos:	92%
% Trucks:	8%
Truck Volume:	812.72
Crash Density:	43.63
Crash Severity:	35.01
Critical Crash Rate:	25.2
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	62
Actual Congested Speed:	39.38
Travel Time Index:	0.68

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	3.98
Facility Type:	Multi-Lane Highway
Access Control:	Limited
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):	10039495.08
Travel Time Savings for 30 Years (Autos):	9222204.24
Travel Time Savings for 30 Years (Trucks):	817290.84
Long-Term Employment:	190
% Change in Economy:	0.00046853
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 8

* 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 8	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Triangle Area RPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$33,200,000	TIP Unit
Right-of-Way Cost:	\$7,000,000	TIP Unit
Utilities Cost:	\$585,000	TIP Unit
Total Project Cost:	\$40,785,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$40,785,000	