



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090115

**Mode:** Highway

**Status:** Submitted

## NC-24, NC-27

**From/Cross Street:** Carthage Bypass

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** NC 87

**Project Category:** Statewide Mobility

**Length:** 20.75

**TIP#:** R-2529

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$162,547,000

### Description:

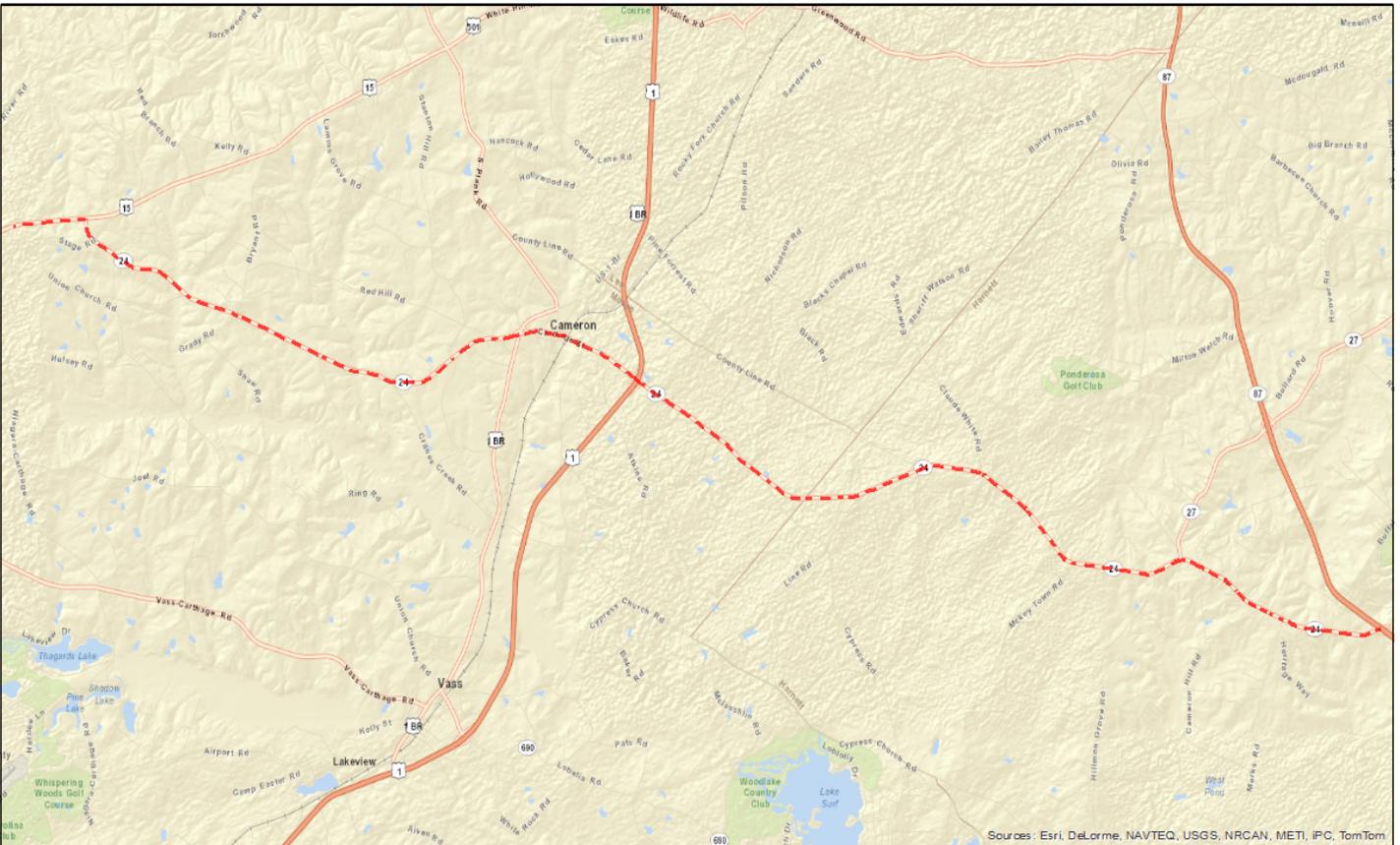
Widen to Multi-Lanes

**Division(s):** Division 8, Division 6

**County(s):** MOORE, HARNETT

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

### Project Location



**Statewide Mobility Total Score: 13.55**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 20.77	N/A	N/A
Safety (10%) 50.20		
Economic Competitiveness (10%) 2.14		
Multimodal + [Freight & Military] (20%) 10.28		
[Travel Time] Benefit/Cost (30%) 0.10		
<b>Totals: Weight: 100% Weighted Score: 13.55</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 20.77	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 50.20		
[Travel Time] Benefit/Cost (25%) 0.10		
Accessibility / Connectivity (10%) 29.36		
<b>Totals: Weight: 70% Weighted Score: 13.17</b>		

**Division Needs Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%) 20.77	Percent: 25% Points:	Percent: 25% Points:
[Travel Time] Benefit/Cost (20%) 0.10		
Safety (10%) 50.20		
<b>Totals: Weight: 50% Weighted Score: 9.19</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	53
Length (miles):	20.75
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	4870.66
Capacity:	15524.31
Volume/Capacity Ratio:	0.31
% Autos:	90%
% Trucks:	10%
Truck Volume:	486.28
Crash Density:	58.22
Crash Severity:	47.92
Critical Crash Rate:	44.49
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	29
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	81
Actual Congested Speed:	41.13
Travel Time Index:	1.11

**Project Benefits**

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	20.75
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):	689523.71
Travel Time Savings for 30 Years (Autos):	620682.09
Travel Time Savings for 30 Years (Trucks):	68841.62
Long-Term Employment:	12
% Change in Economy:	3.09E-05
Provides Direct Connection to Transportation Terminal?	Yes
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 8	59%	0	0
Division 6	41%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

MPO/RPO	Percent	Regional Impact	Division Needs
Triangle Area RPO	59%	0	0
Mid-Carolina RPO	25%	0	0
Fayetteville Area MPO	16%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>0</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$117,420,000	TIP Unit
Right-of-Way Cost:	\$40,292,000	Cost Estimation Tool
Utilities Cost:	\$4,835,000	Cost Estimation Tool
Total Project Cost:	\$162,547,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$162,547,000</b>	