



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H110987

Mode: Highway

Status: Submitted

US-421 (Carolina Beach Road)

From/Cross Street: US 421 (Burnett Boulevard)

Specific Improvement Type: 4 - Upgrade Arterial to Superstreet

To: US 117 (Shipyard Boulevard)

Project Category: Regional Impact

Length: 1.53

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$10,206,000

Description:

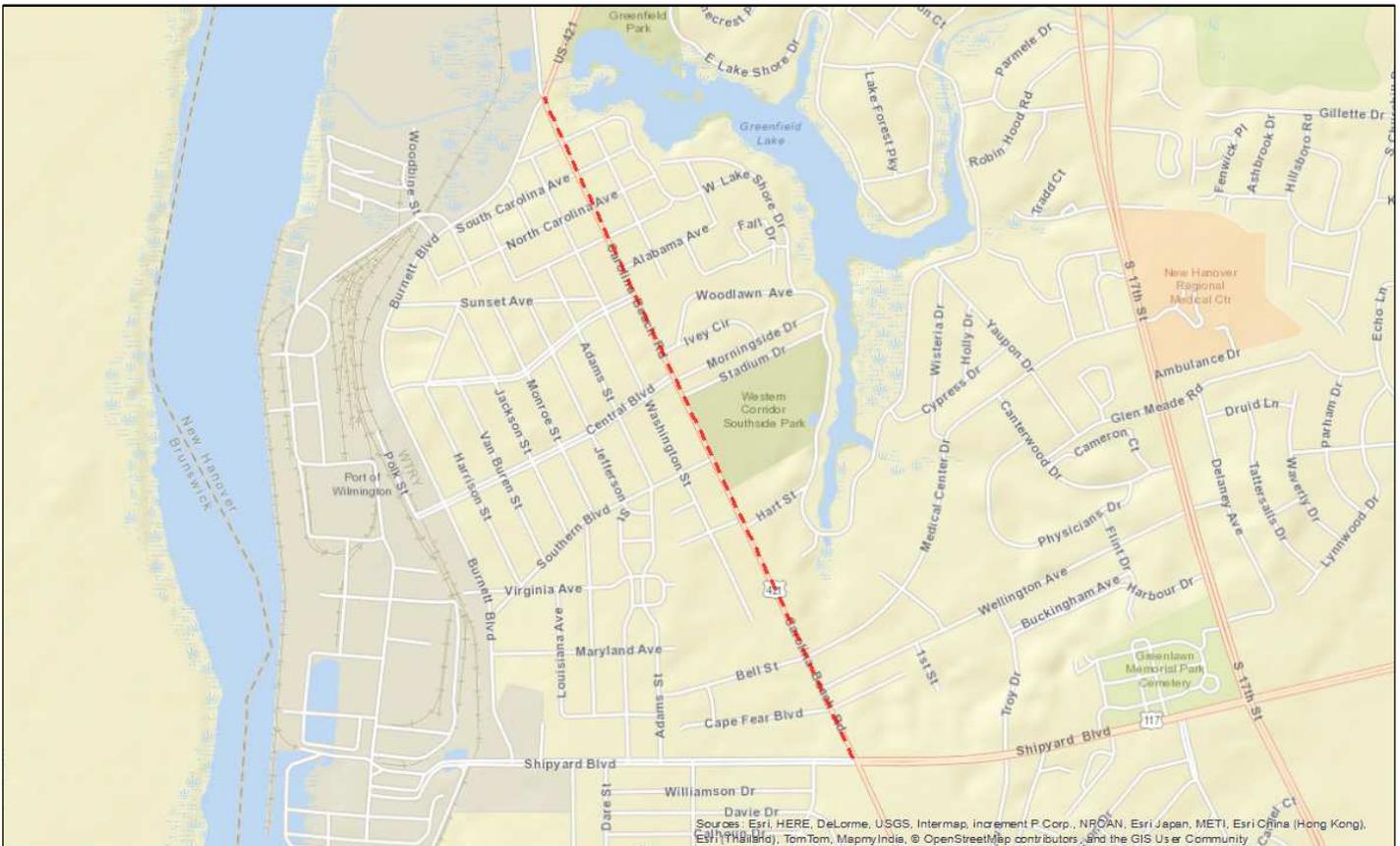
Upgrade Arterial with a Landscaped Median and Bulb-Outs

Division(s): Division 3

County(s): NEW HANOVER

MPOS(s)/RPO(s): Wilmington Urban Area 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: 69.83

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%) 91.80	Percent: 15% Points: 100	Percent: 15% Points: 100
Multimodal + [Freight & Military] (25%) 58.36		
[Travel Time] Benefit/Cost (20%) 11.44		
Totals: Weight: 70% Weighted Score: 39.83		

Division Needs Total Score: 62.59

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 66.97	Percent: 25% Points: 100	Percent: 25% Points: 0
Safety (20%) 91.80		
Multimodal + [Freight & Military] (10%) 58.36		
Totals: Weight: 50% Weighted Score: 37.59		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	35
Length (miles);	1.53
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	29210.08
Capacity:	31700
Volume/Capacity Ratio:	0.92
% Autos:	92%
% Trucks:	8%
Truck Volume:	2457.07
Crash Density:	95.43
Crash Severity:	99.8
Critical Crash Rate:	80.18
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	18
Existing Median Type (for Cost Estimation):	TWLTL
Pavement Condition Rating:	72
Actual Congested Speed:	30
Travel Time Index:	1.17

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):	1.53
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	5128666.46
Travel Time Savings for 30 Years (Autos):	4697257.07
Travel Time Savings for 30 Years (Trucks):	431409.39
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	Yes
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 3

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership

Division

Division	Percent	Regional Impact	Division Needs
Division 3	100%	100	100
	0%	0	0
	0%	0	0
TOTAL Division Points		100	100

MPO/RPO

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

Project Cost and Source

Construction Cost:	\$7,638,000	TIP Unit
Right-of-Way Cost:	\$2,293,000	Cost Estimation Tool
Utilities Cost:	\$275,000	Cost Estimation Tool
Total Project Cost:	\$10,206,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$10,206,000	