NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090287-A **Mode:** Highway **Status:** Submitted

US-74, US-76

From/Cross Street: Whiteville

To: I-140/US 17 Wilmington Bypass

Length: 42.24

Specific Improvement Type: 2 - Upgrade Arterial to Freeway/Expressway

Project Category: Statewide Mobility

TIP#: R-4462

Fully Funded in Draft STIP? No

Cost to NCDOT: $54,001,000

Description:

Upgrade Roadway to interstate Standards

Division(s): Division 6, Division 3

County(s): COLUMBUS, BRUNSWICK

MPOS(s)/RPO(s): Cape Fear RPO, Wilmington Urban Area MPO

Project Location

Statewide Mobility Total Score: 17.56

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (30%)	6.76	N/A	N/A
Safety (10%)	44.72		
Economic Competitiveness (10%)	29.76		
Multimodal + [Freight & Military] (20%)	13.95		
Congestion (V/C) (30%)	17.65		
Totals: Weight: 100% Weighted Score: 17.56			

Regional Impact Total Score: 0

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	17.65	Percent: 15%	Percent: 15%
Safety (10%)	44.72	Points:	Points:
[Travel Time] Benefit/Cost (25%)	6.76		
Accessibility / Connectivity (10%)	50.09		
Totals: Weight: 70% Weighted Score: 15.58			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	17.65	Percent: 25%	Percent: 25%
Safety (10%)	44.72	Points:	Points:
[Travel Time] Benefit/Cost (20%)	6.76		
Totals: Weight: 50% Weighted Score: 9.35			

Project Data *

Existing Conditions

Existing Cross-Section:	
Speed Limit:	57
Length (miles);	42.24
Facility Type:	Multi-Lane Highway
Access Control:	Limited
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	3
Roadway has Curb & Gutter?	No
Volume (AADT):	14696.89
Capacity:	74902.71
Volume/Capacity Ratio:	0.2
% Autos:	88%
% Trucks:	12%
Truck Volume:	1809.14
Crash Density:	40.23
Crash Severity:	49.25
Critical Crash Rate:	44.71
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	81
Actual Congested Speed:	59.52
Travel Time Index:	0.96

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	42.24
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
TerrainType:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	15777417.68
Travel Time Savings for 30 Years (Autos):	13835267.8
Travel Time Savings for 30 Years (Trucks):	1942149.88
Long-Term Employment:	254
% Change in Economy:	0.00034125
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 3

* 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	71%	0	0
Division 3	29%	0	0
	0%	0	0
TOTAL Division Points		**0**	**0**

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Cape Fear RPO	81%	0	0
Wilmington Urban Area MPO	19%	0	0
	0%	0	0
TOTAL MPO/RPO Points		**0**	**0**

Project Cost and Source

Construction Cost:	$54,001,000	Cost Estimation Tool
Right-of-Way Cost:	$0	Cost Estimation Tool
Utilities Cost:	$0	Cost Estimation Tool
Total Project Cost:	$54,001,000	
Other Funding:	$0	None
Cost to NCDOT :	**$54,001,000**	