



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141228

Mode: Highway

Status: Submitted

US-74 (Eastwood Road)

From/Cross Street: US17BUS (Market Street)

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

To:

Project Category: Statewide Mobility

Length: 2

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$25,110,000

Description:

Convert at-grade intersection to a SPUI

Division(s): Division 3

County(s): NEW HANOVER

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

Project Location



Statewide Mobility Total Score: 39.5

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 70.59 Safety (10%) 50.00 Economic Competitiveness (10%) 23.89 [Travel Time] Benefit/Cost (30%) 11.51 Multimodal + [Freight & Military] (20%) 37.40	N/A	N/A
Totals: Weight: 100% Weighted Score: 39.5		

Regional Impact Total Score: 24.15

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%) 50.00 Multimodal + [Freight & Military] (25%) 37.40 [Travel Time] Benefit/Cost (20%) 11.51	Percent: 15% Points: 0	Percent: 15% Points: 0
Totals: Weight: 70% Weighted Score: 24.15		

Division Needs Total Score: 52.86

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 70.59 Safety (20%) 50.00 Multimodal + [Freight & Military] (10%) 37.40	Percent: 25% Points: 0	Percent: 25% Points: 100
Totals: Weight: 50% Weighted Score: 27.86		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	40
Length (miles);	2
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	Yes
Volume (AADT):	56870.22
Capacity:	71322.43
Volume/Capacity Ratio:	0.8
% Autos:	94%
% Trucks:	6%
Truck Volume:	3493.46
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	66.7
Severity Index:	33.3
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	16
Existing Median Type (for Cost Estimation):	TWLT
Pavement Condition Rating:	60
Actual Congested Speed:	17.95
Travel Time Index:	1.95

Project Benefits

Project Cross-Section:	
Speed Limit:	40
Length (miles):	2
Facility Type:	Arterial
Access Control:	Full
Functional Classification:	Other Principal Arterial
TerrainType:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	12811000
Travel Time Savings for 30 Years (Autos):	12024038.64
Travel Time Savings for 30 Years (Trucks):	786961.36
Long-Term Employment:	204.72
% Change in Economy:	0.000273
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Cape Fear Commutes 2035 Transportation Plan
CTP/LRTP Completion Year:	2014
Submitted by:	Wilmington Urban Area MPO

* 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 3	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

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

Project Cost and Source

Construction Cost:	\$20,250,000	Cost Estimation Tool
Right-of-Way Cost:	\$4,860,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$25,110,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$25,110,000	