



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090237-A

Mode: Highway

Status: Submitted

I-74 (New Route - Carolina Bays Parkway Extension)

From/Cross Street: South Carolina State Line

Specific Improvement Type: 5 - Construct Roadway on New Location

To: US 17 south of NC 904.

Project Category: Statewide Mobility

Length: 13.07

TIP#: R-3436

Fully Funded in Draft STIP? No

Cost to NCDOT: \$94,379,000

Description:

Construct Freeway on New Location.

Division(s): Division 3

County(s): BRUNSWICK

MPOS(s)/RPO(s): Grand Strand Transportation Study Area, Cape Fear RPO

Project Location



Statewide Mobility Total Score: 31.76

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 39.13	N/A	N/A
Safety (10%) 57.26		
Economic Competitiveness (10%) 73.22		
Multimodal + [Freight & Military] (20%) 20.71		
[Travel Time] Benefit/Cost (30%) 9.42		
Totals: Weight: 100% Weighted Score: 31.76		

Regional Impact Total Score: 36.38

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%) 57.26	Percent: 15% Points: 0	Percent: 15% Points: 100
Multimodal + [Freight & Military] (25%) 20.71		
[Travel Time] Benefit/Cost (20%) 9.42		
Totals: Weight: 70% Weighted Score: 21.38		

Division Needs Total Score: 46.35

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 39.13	Percent: 25% Points: 0	Percent: 25% Points: 100
Safety (20%) 57.26		
Multimodal + [Freight & Military] (10%) 20.71		
Totals: Weight: 50% Weighted Score: 21.35		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	48
Length (miles):	12.8
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	17066.26
Capacity:	31700
Volume/Capacity Ratio:	0.54
% Autos:	92%
% Trucks:	8%
Truck Volume:	1450.62
Crash Density:	52.44
Crash Severity:	64.19
Critical Crash Rate:	55.16
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	25
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	89
Actual Congested Speed:	54.43
Travel Time Index:	1.01

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	13.07
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	39041258.87
Travel Time Savings for 30 Years (Autos):	35722773.52
Travel Time Savings for 30 Years (Trucks):	3318485.35
Long-Term Employment:	619.73
% Change in Economy:	0.0008447
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 3	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Grand Strand Transportation Study Area	82%	82	82
Cape Fear RPO	18%	18	18
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$81,751,000	Cost Estimation Tool
Right-of-Way Cost:	\$11,275,000	Cost Estimation Tool
Utilities Cost:	\$1,353,000	Cost Estimation Tool
Total Project Cost:	\$94,379,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$94,379,000	