



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H140415

**Mode:** Highway

**Status:** Submitted

## I-74 ALT , I-140 ALT (I-74/I-140 Connector)

**From/Cross Street:** I-140 (Wilmington Bypass)

**Specific Improvement Type:** 5 - Construct Roadway on New Location

**To:** I-74/US-17 (Near Supply)

**Project Category:** Statewide Mobility

**Length:** 18.28

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$191,569,000

### Description:

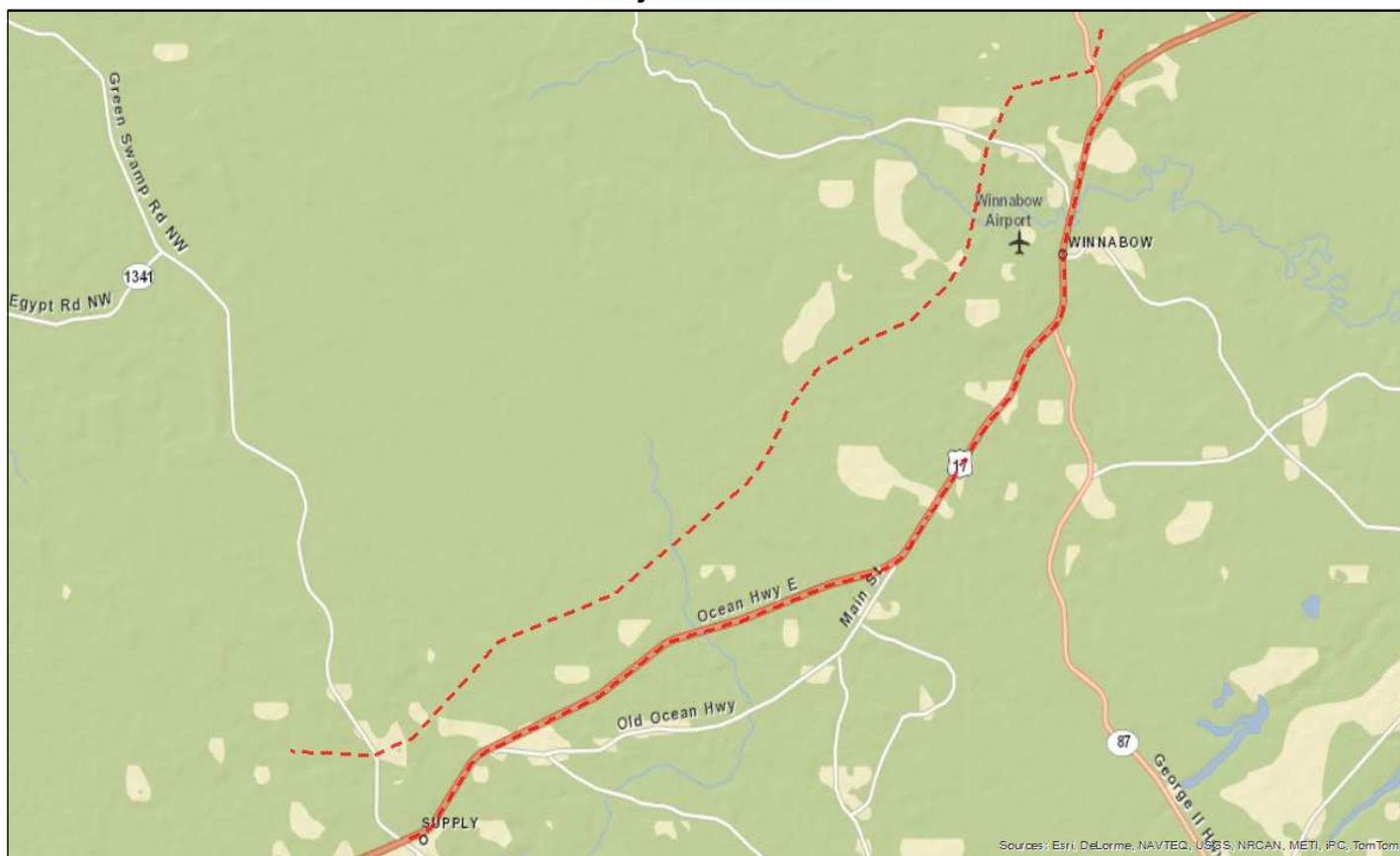
Construct a new expressway on new location connecting I-140 to proposed I-74 or US-17 near Supply.

**Division(s):** Division 3

**County(s):** BRUNSWICK

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

### Project Location



Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, JPC, TomTom

**Statewide Mobility Total Score: 15.31**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	25.15	N/A	N/A
Safety (10%)	28.67		
Economic Competitiveness (10%)	15.05		
Multimodal + [Freight & Military] (20%)	15.20		
[Travel Time] Benefit/Cost (30%)	1.17		
<b>Totals: Weight: 100% Weighted Score: 15.31</b>			

**Regional Impact Total Score: 0**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%)	28.67	Percent: 15% Points:	Percent: 15% Points:
Multimodal + [Freight & Military] (25%)	15.20		
[Travel Time] Benefit/Cost (20%)	1.17		
<b>Totals: Weight: 70% Weighted Score: 11.2</b>			

**Division Needs Total Score: 0**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	25.15	Percent: 25% Points:	Percent: 25% Points:
Safety (20%)	28.67		
Multimodal + [Freight & Military] (10%)	15.20		
<b>Totals: Weight: 50% Weighted Score: 12.28</b>			

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

Existing Cross-Section:	
Speed Limit:	55
Length (miles);	17.5
Facility Type:	Multi-Lane Highway
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):	21000.89
Capacity:	75247.22
Volume/Capacity Ratio:	0.28
% Autos:	92%
% Trucks:	8%
Truck Volume:	1645.22
Crash Density:	28.73
Crash Severity:	35.05
Critical Crash Rate:	22.23
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	92
Actual Congested Speed:	58.03
Travel Time Index:	0.95

**Project Benefits**

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	18.28
Facility Type:	Freeway
Access Control:	Full
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):	9861406.21
Travel Time Savings for 30 Years (Autos):	9088860.41
Travel Time Savings for 30 Years (Trucks):	772545.8
Long-Term Employment:	122.16
% Change in Economy:	0.00017884
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Brunswick Co. CTP
CTP/LRTP Completion Year:	2010
Submitted by:	Cape Fear RPO

\* 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**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 3	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Cape Fear RPO	85%	0	0
Wilmington Urban Area MPO	15%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>0</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$171,637,000	Cost Estimation Tool
Right-of-Way Cost:	\$17,796,000	Cost Estimation Tool
Utilities Cost:	\$2,136,000	Cost Estimation Tool
Total Project Cost:	\$191,569,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$191,569,000</b>	