



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H128081

**Mode:** Highway

**Status:** Submitted

## I-40

**From/Cross Street:** SR 3015 (Airport Boulevard)

**Specific Improvement Type:** 8 - Improve Interchange

**To:**

**Project Category:** Statewide Mobility

**Length:** 2

**TIP#:**

**Fully Funded in Draft STIP?** Yes **Statewide Mobility**

**Cost to NCDOT:** \$6,670,000

### Description:

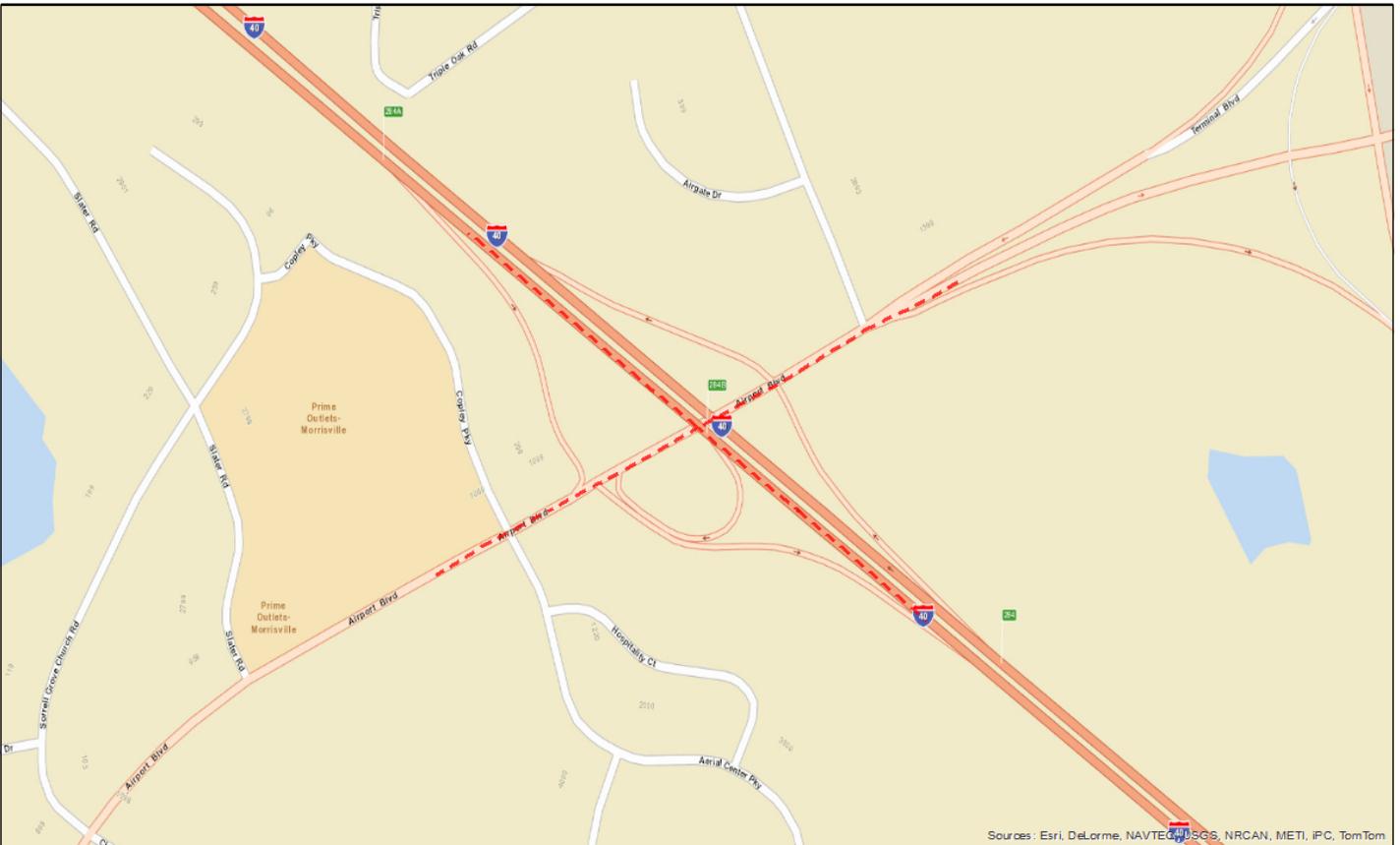
Convert Existing interchange to a Diverging Diamond

**Division(s):** Division 5

**County(s):** WAKE

**MPOS(s)/RPO(s):** Capital Area MPO

### Project Location



**Statewide Mobility Total Score: 83.51**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%) 100.00 [Travel Time] Benefit/Cost (30%) 100.00 Multimodal + [Freight & Military] (20%) 60.12 Safety (10%) 66.65 Economic Competitiveness (10%) 48.21	N/A	N/A
<b>Totals: Weight: 100% Weighted Score: 83.51</b>		

**Regional Impact Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%) 100.00 Safety (10%) 66.65 [Travel Time] Benefit/Cost (25%) 100.00 Accessibility / Connectivity (10%) 100.00	Percent: 15% Points:	Percent: 15% Points:
<b>Totals: Weight: 70% Weighted Score: 66.67</b>		

**Division Needs Total Score: 0**

<b>Quantitative Score</b>	<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Safety (10%) 66.65 [Travel Time] Benefit/Cost (20%) 100.00 Congestion (V/C) (20%) 100.00	Percent: 25% Points:	Percent: 25% Points:
<b>Totals: Weight: 50% Weighted Score: 46.66</b>		

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

Existing Cross-Section:	
Speed Limit:	65
Length (miles);	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	10
Roadway has Curb & Gutter?	No
Volume (AADT):	165974.01
Capacity:	176575.34
Volume/Capacity Ratio:	0.94
% Autos:	96%
% Trucks:	4%
Truck Volume:	7323.19
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	33.3
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	53
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	99
Actual Congested Speed:	39.36
Travel Time Index:	1.14

**Project Benefits**

Project Cross-Section:	
Speed Limit:	65
Length (miles):	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Interstate
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	38984000
Travel Time Savings for 30 Years (Autos):	37263927.21
Travel Time Savings for 30 Years (Trucks):	1720072.79
Long-Term Employment:	562
% Change in Economy:	0.00040222
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 5

\* 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 5	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>0</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$5,750,000	Cost Estimation Tool
Right-of-Way Cost:	\$920,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$6,670,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$6,670,000</b>	