

# **NCDOT Prioritization 3.0 Project Summary**

Mode: Highway Status: Submitted **SPOT ID:** H129617

# NC-540 (New Route - Eastern Wake Freeway (Toll))

Specific Improvement Type: 5 - Construct Roadway on New From/Cross Street: I-40

Cost to NCDOT: \$284,784,000

To: US 64/264 Bypass **Project Category: Statewide Mobility** 

Length: 10.61 TIP#: R-2829

### **Fully Funded in Draft STIP?**

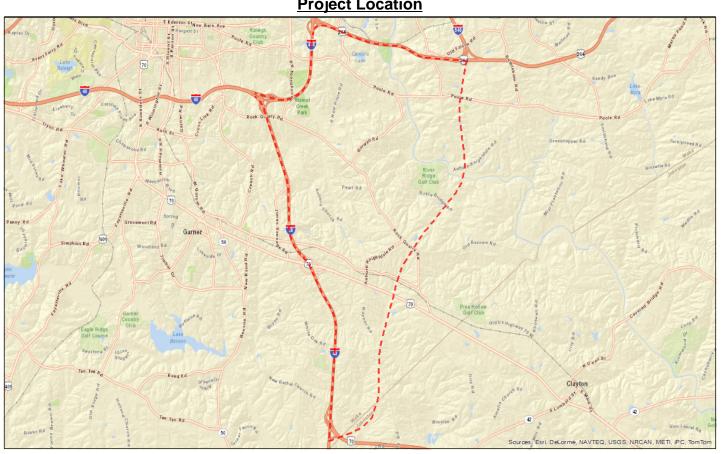
**Description:** 

Construct Freeway on New Location (toll)

Division(s): Division 5, Division 4 County(s): WAKE, JOHNSTON

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

### **Project Location**



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# **Statewide Mobility Total Score: 44.6**

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) Multimodal + [Freight & Military] (20%) [Travel Time] Benefit/Cost (30%) Economic Competitiveness (10%) Safety (10%)  Totals: Weight: 100% Weighted Score:	75.42 23.21 5.83 100.00 55.82	N/A	N/A

# **Regional Impact Total Score: 0**

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) Safety (10%) [Travel Time] Benefit/Cost (25%) Accessibility / Connectivity (10%)  Totals: Weight: 70% Weighted Scor	75.42 55.82 5.83 41.24 e: <b>35.89</b>	Percent: 15% Points:	Percent: 15% Points:

### **Division Needs Total Score: 0**

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%) Safety (10%) Congestion (V/C) (20%) Totals: Weight: 50% Weighted Score	5.83 55.82 75.42 e: <b>21.83</b>	Percent: 25% Points:	Percent: 25% Points:

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### Project Data \*

### **Existing Conditions**

#### **Existing Cross-Section:** 67 Speed Limit: Length (miles); 15.66 Freeway Facility Type: Full Access Control: Functional Classification: Interstate Rolling Terrain Type: Lane Width: 12 Paved Shoulder Width: 10 Roadway has Curb & Gutter? No Volume (AADT): 81723.68 114759.69 Capacity: 0.71 Volume/Capacity Ratio: % Autos: 94% % Trucks: 6% Truck Volume: 4641.34 65.49 Crash Density: Crash Severity: 53.4 48.59 Critical Crash Rate: Crash Frequency: 0 0 Severity Index: 3 County Tier Designation: Non-Interstate STRAHNET No Route? Average Commuting Time: 27 Existing Median Type (for Divided Cost Estimation): Pavement Condition Rating: 92 Actual Congested Speed: 37.78 Travel Time Index: 1.11

#### **Project Benefits**

Project Cross-Section:	6A - 6 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	70
Length (miles):	10.61
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):	73707497.65
Travel Time Savings for 30 Years (Autos):	69521421.35
Travel Time Savings for 30 Years (Trucks):	4186076.3
Long-Term Employment:	1913
% Change in Economy:	0.00123936
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 5

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<sup>\*</sup> Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

# **Project Ownership**

### **Division**

Division	Percent	Regional Impact	Division Needs
Division 5	88%	0	0
Division 4	12%	0	0
	0%	0	0
TOTAL Division Points		0	0

### MPO/RPO

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

# **Project Cost and Source**

Construction Cost:	\$431,572,000	TIP Unit
Right-of-Way Cost:	\$37,600,000	TIP Unit
Utilities Cost:	\$3,100,000	TIP Unit
Total Project Cost:	\$472,272,000	
Other Funding:	\$187,488,000	Toll Revenue less Roadway Maintenance & Financing
Cost to NCDOT :	\$284,784,000	

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