



# NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111020-B

Mode: Highway

Status: Submitted

## US-401

From/Cross Street: US 401 (Fuquay-Varina Bypass)

Specific Improvement Type: 2 - Upgrade Arterial to Freeway/Expressway

To: NC 540

Project Category: Regional Impact

Length: 3.77

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$67,544,000

### Description:

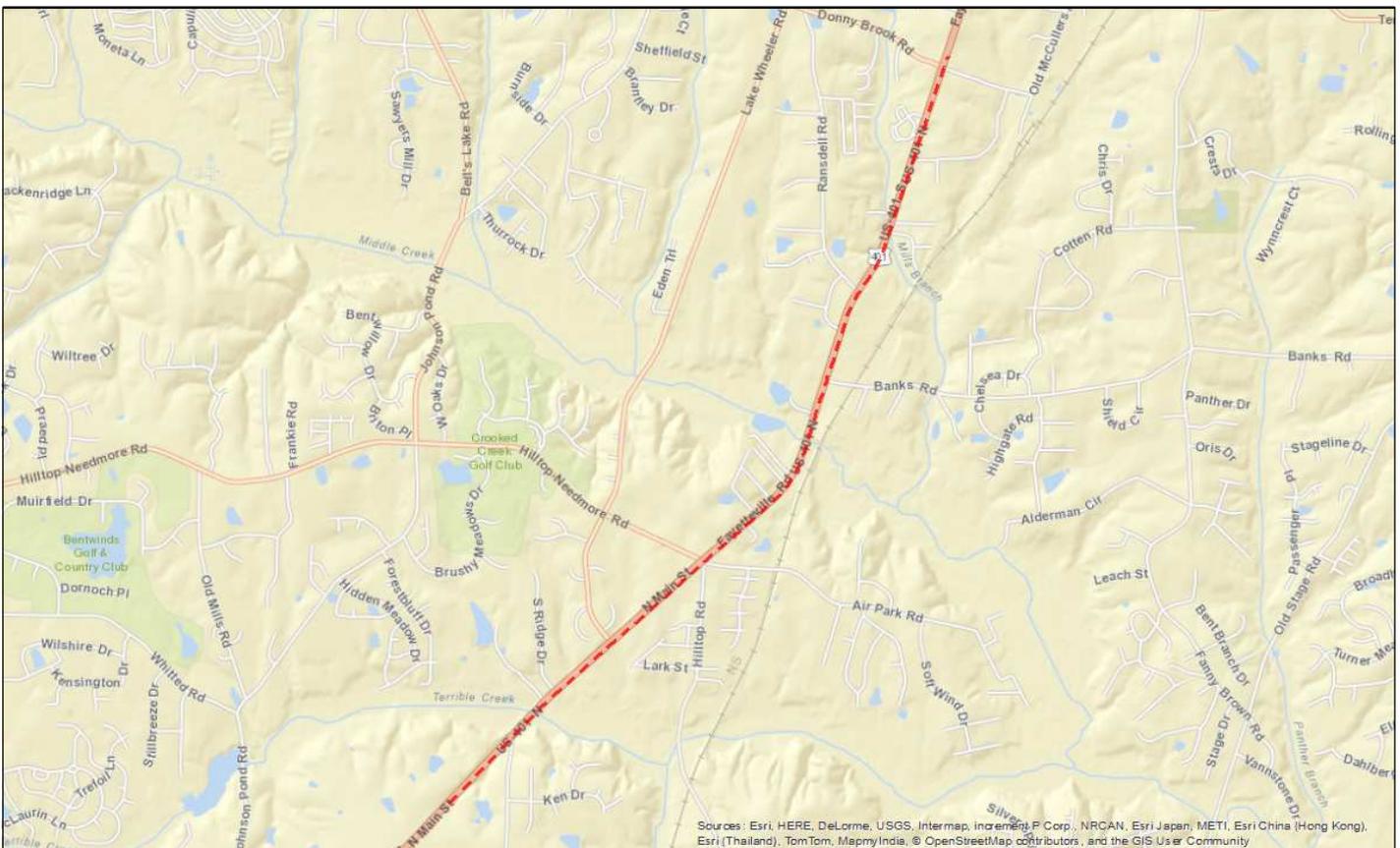
Widen Roadway to Six Lanes

Division(s): Division 5

County(s): WAKE

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

### Project Location



**Statewide Mobility Total Score: 0**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
	N/A	N/A
<b>Totals: Weight: 0% Weighted Score: 0</b>		

**Regional Impact Total Score: 60.29**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 55.95	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (10%) 74.98		
[Travel Time] Benefit/Cost (25%) 5.25		
Accessibility / Connectivity (10%) 74.95		
<b>Totals: Weight: 70% Weighted Score: 30.29</b>		

**Division Needs Total Score: 19.74**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%) 5.25	Percent: 25% Points: 0	Percent: 25% Points: 0
Congestion (V/C) (20%) 55.95		
Safety (10%) 74.98		
<b>Totals: Weight: 50% Weighted Score: 19.74</b>		

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

Existing Cross-Section:	
Speed Limit:	51
Length (miles):	3.77
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	24405.24
Capacity:	31700.12
Volume/Capacity Ratio:	0.77
% Autos:	95%
% Trucks:	5%
Truck Volume:	1187.3
Crash Density:	78.91
Crash Severity:	71.56
Critical Crash Rate:	74.5
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	29
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	74
Actual Congested Speed:	45.67
Travel Time Index:	1.1

**Project Benefits**

Project Cross-Section:	6A - 6 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	3.77
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial-Other Freeway
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	15788373.9
Travel Time Savings for 30 Years (Autos):	15020277.43
Travel Time Savings for 30 Years (Trucks):	768096.47
Long-Term Employment:	
% Change in Economy:	
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

\* 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**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 5	100%	100	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>100</b>	<b>0</b>

**MPO/RPO**

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

**Project Cost and Source**

Construction Cost:	\$38,636,000	Cost Estimation Tool
Right-of-Way Cost:	\$25,811,000	Cost Estimation Tool
Utilities Cost:	\$3,097,000	Cost Estimation Tool
Total Project Cost:	\$67,544,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$67,544,000</b>	