



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090962-A

Mode: Highway

Status: Submitted

US-74 (Independence Boulevard)

From/Cross Street: I-485

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

To: Sardis Road North

Project Category: Statewide Mobility

Length: 3.24

TIP#: U-2509

Fully Funded in Draft STIP? Yes Statewide Mobility

Cost to NCDOT: \$156,998,000

Description:

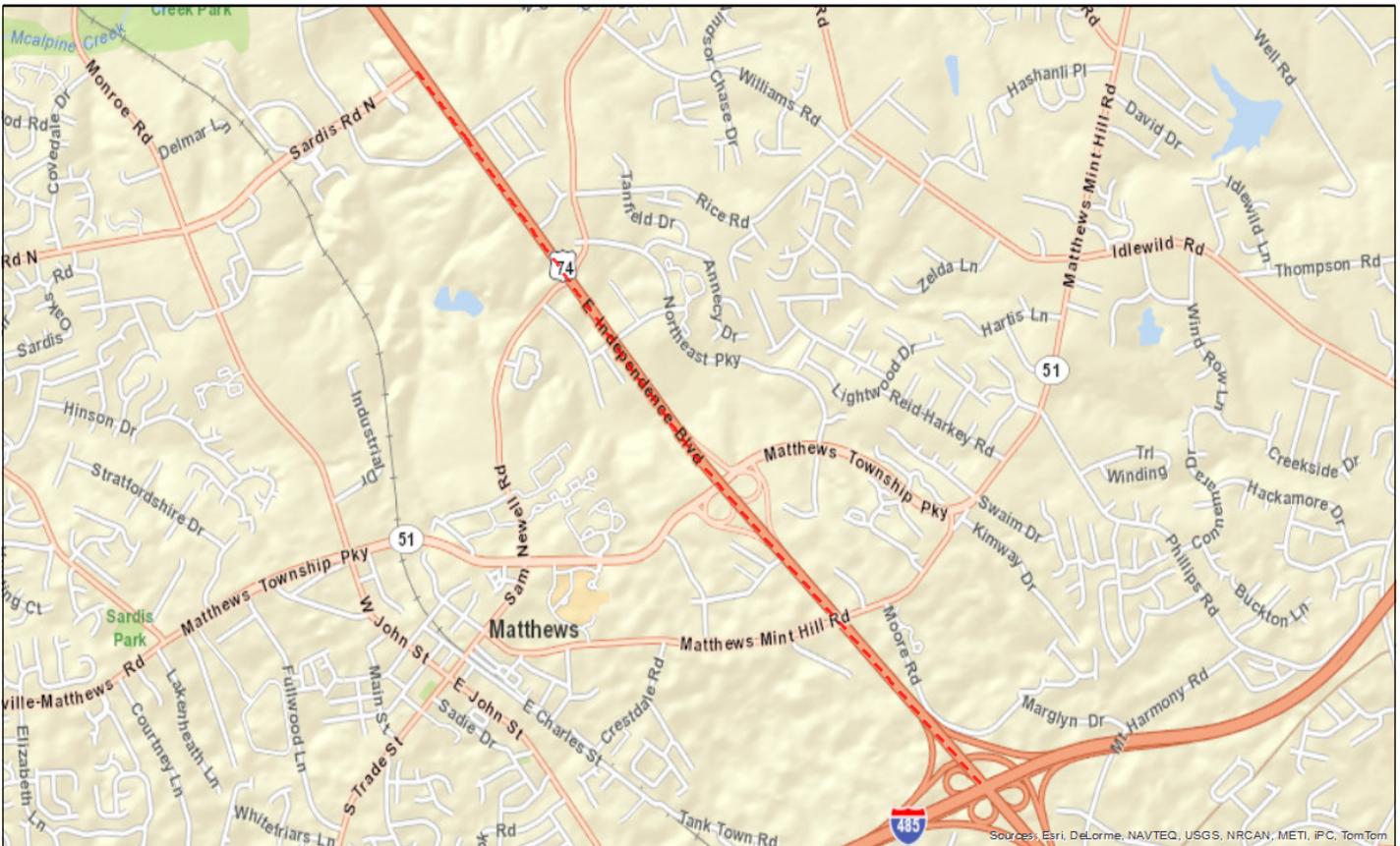
Upgrade Corridor to Provide Additional Capacity and Safety Improvements. Includes Improvements to extend Krefeld Drive from existing Krefeld Drive to Sardis Road North, and improvements to Arequipa Drive/Northeast Parkway from Margaret Wallace Road to Sam Newell Road

Division(s): Division 10

County(s): MECKLENBURG

MPOS(s)/RPO(s): Charlotte Regional Transportation Planning Organization

Project Location



Statewide Mobility Total Score: 60.36

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 100.00 Safety (10%) 72.66 Economic Competitiveness (10%) 100.00 Multimodal + [Freight & Military] (20%) 45.52 [Travel Time] Benefit/Cost (30%) 13.30	N/A	N/A
Totals: Weight: 100% Weighted Score: 60.36		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 100.00 Safety (10%) 72.66 [Travel Time] Benefit/Cost (25%) 13.30 Accessibility / Connectivity (10%) 100.00	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 45.59		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 100.00 Safety (10%) 72.66 [Travel Time] Benefit/Cost (20%) 13.30	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 29.93		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles);	3.24
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	46706.75
Capacity:	31700
Volume/Capacity Ratio:	1.47
% Autos:	96%
% Trucks:	4%
Truck Volume:	1736.56
Crash Density:	80.81
Crash Severity:	70.2
Critical Crash Rate:	66.98
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:	92
Actual Congested Speed:	34.2
Travel Time Index:	1.32

Project Benefits

Project Cross-Section:	8D - 8 Lane Freeway (6 General Purpose Lanes, 2 Managed Lanes, and 27' Median with Jersey Barrier) with Paved Shoulders
Speed Limit:	60
Length (miles):	3.24
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:	10
Travel Time Savings for 30 Years (Total):	93460662.07
Travel Time Savings for 30 Years (Autos):	89985787.74
Travel Time Savings for 30 Years (Trucks):	3474874.33
Long-Term Employment:	1390
% Change in Economy:	0.00096435
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 10

* 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 10	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Charlotte Regional Transportation Planning Organization	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$128,827,000	TIP Unit
Right-of-Way Cost:	\$45,000,000	TIP Unit
Utilities Cost:	\$5,000,000	TIP Unit
Total Project Cost:	\$178,827,000	
Other Funding:	\$21,829,369	Toll Revenue less Roadway Maintenance & Financing
Cost to NCDOT :	\$156,998,000	