



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H141928

Mode: Highway

Status: Submitted

I-77

From/Cross Street: NC 73

Specific Improvement Type: 8 - Improve Interchange

To:

Project Category: Statewide Mobility

Length: 2

TIP#: None

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

Cost to NCDOT: \$11,165,000

Description:

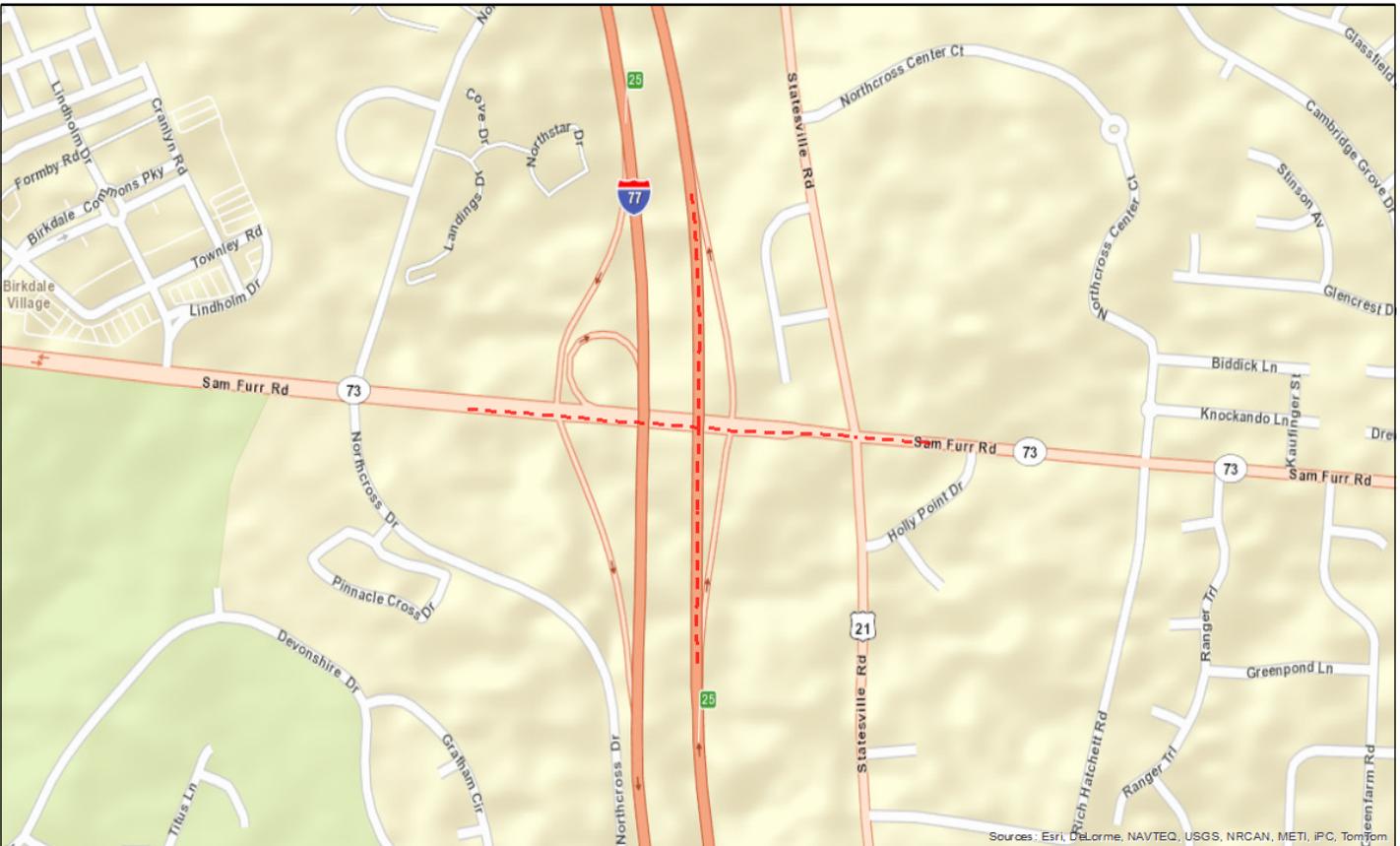
Upgrade existing interchange to Split Diamond configuration. Preliminary Analysis and Environmental Screening under way by Town of Huntersville, concept attached. Costs not fully determined at present.

Division(s): Division 10

County(s): MECKLENBURG

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

Project Location



Statewide Mobility Total Score: 82.46

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 100.00	N/A	N/A
Safety (10%) 66.65		
Economic Competitiveness (10%) 60.10		
Multimodal + [Freight & Military] (20%) 64.89		
[Travel Time] Benefit/Cost (30%) 89.35		
Totals: Weight: 100% Weighted Score: 82.46		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 100.00	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (25%) 89.35		
Accessibility / Connectivity (10%) 51.50		
Totals: Weight: 70% Weighted Score: 59.15		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 100.00	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (20%) 89.35		
Totals: Weight: 50% Weighted Score: 44.54		

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):	130486.76
Capacity:	104105.5
Volume/Capacity Ratio:	1.25
% Autos:	90%
% Trucks:	10%
Truck Volume:	12978.63
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:	24
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	86
Actual Congested Speed:	32.29
Travel Time Index:	2.01

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):	43541000
Travel Time Savings for 30 Years (Autos):	39210273.01
Travel Time Savings for 30 Years (Trucks):	4330726.99
Long-Term Employment:	713.78
% Change in Economy:	0.00048832
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
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:	\$9,625,000	Cost Estimation Tool
Right-of-Way Cost:	\$1,540,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$11,165,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$11,165,000	