NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090349 **Mode:** Highway **Status:** Submitted

US-74 (Dixon Boulevard)

From/Cross Street: NC 150 (Dekalb Street)

To:

Length: 2

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

Project Category: Statewide Mobility

TIP#: U-2567

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

Cost to NCDOT: $13,476,000

Description:

US 74-NC 150 (Dekalb Street). Construct interchange.

Division(s): Division 12

County(s): CLEVELAND

MPOS(s)/RPO(s): Gaston-Cleveland-Lincoln MPO

Project Location

Statewide Mobility Total Score: 44.21

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	56.27	N/A	N/A
Safety (10%)	66.65		
Economic Competitiveness (10%)	56.86		
[Travel Time] Benefit/Cost (30%)	39.08		
Multimodal + [Freight & Military] (20%)	16.26		
Totals: Weight: 100% Weighted Score: 44.21			

Regional Impact Total Score: 0

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	56.27	Percent: 15%	Percent: 15%
[Travel Time] Benefit/Cost (25%)	39.08	Points:	Points:
Accessibility / Connectivity (10%)	33.86		
Safety (10%)	66.65		
Totals: Weight: 70% Weighted Score: 40.5			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	56.27	Percent: 25%	Percent: 25%
Safety (10%)	66.65	Points:	Points:
[Travel Time] Benefit/Cost (20%)	39.08		
Totals: Weight: 50% Weighted Score: 25.74			

Project Data *

Existing Conditions

Existing Cross-Section:	
Speed Limit:	45
Length (miles);	2
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial-Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	41793.32
Capacity:	63400
Volume/Capacity Ratio:	0.66
% Autos:	92%
% Trucks:	8%
Truck Volume:	3251.76
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	33.3
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	88
Actual Congested Speed:	13.05
Travel Time Index:	2.68

Project Benefits

Project Cross-Section:	
Speed Limit:	45
Length (miles):	2
Facility Type:	Arterial
Access Control:	Partial
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):	23188000
Travel Time Savings for 30 Years (Autos):	21383838.89
Travel Time Savings for 30 Years (Trucks):	1804161.11
Long-Term Employment:	403
% Change in Economy:	0.00073429
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 12

***** 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 12	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		**0**	**0**

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Gaston-Cleveland-Lincoln MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		**0**	**0**

Project Cost and Source

Construction Cost:	$11,286,000	TIP Unit
Right-of-Way Cost:	$2,190,000	Cost Estimation Tool
Utilities Cost:	$0	Cost Estimation Tool
Total Project Cost:	$13,476,000	
Other Funding:	$0	None
Cost to NCDOT :	**$13,476,000**	