



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111052

Mode: Highway

Status: Submitted

US-70

From/Cross Street: SR 1817 (Graham Hopedale Road)

Specific Improvement Type: 10 - Improve Intersection

To:

Project Category: Regional Impact

Length: 0.5

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$1,163,000

Description:

Capacity and Safety Improvements at the intersection to include Turn Lanes, Center Island Medians, Traffic Signal Timing Plans, Pedestrian and Bike Accomodations and Mast Arm Traffic Signal Poles.

Division(s): Division 7

County(s): ALAMANCE

MPOS(s)/RPO(s): Burlington Graham MPO

Project Location



Statewide Mobility Total Score: 0

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

Regional Impact Total Score: 40.38

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 40.22	Percent: 15% Points: 0	Percent: 15% Points: 100
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (25%) 25.88		
Accessibility / Connectivity (10%) 21.92		
Totals: Weight: 70% Weighted Score: 25.38		

Division Needs Total Score: 69.89

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 40.22	Percent: 25% Points: 100	Percent: 25% Points: 100
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (20%) 25.88		
Totals: Weight: 50% Weighted Score: 19.89		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles);	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	29873.81
Capacity:	63399.83
Volume/Capacity Ratio:	0.47
% Autos:	95%
% Trucks:	5%
Truck Volume:	1352.94
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:	21
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	92
Actual Congested Speed:	15.99
Travel Time Index:	2.19

Project Benefits

Project Cross-Section:	
Speed Limit:	45
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1343000
Travel Time Savings for 30 Years (Autos):	1282177.41
Travel Time Savings for 30 Years (Trucks):	60822.59
Long-Term Employment:	
% Change in Economy:	
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 7

* 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 7	100%	0	100
	0%	0	0
	0%	0	0
TOTAL Division Points		0	100

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Burlington Graham MPO	100%	100	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$938,000	Cost Estimation Tool
Right-of-Way Cost:	\$225,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$1,163,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$1,163,000	