



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H142037

Mode: Highway

Status: Submitted

US-221, US-321, US-221 TRUCK (Blowing Rock Road, Blowing Rock Road, Blowing Rock Road)

From/Cross Street: NC 105

Specific Improvement Type: 10 - Improve Intersection

To:

Project Category: Statewide Mobility

Length: 0.5

TIP#:

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

Cost to NCDOT: \$2,325,000

Description:

Upgrade intersection of US 221/321 and NC 105.

Division(s): Division 11

County(s): WATAUGA

MPOS(s)/RPO(s): High Country RPO

Project Location



Statewide Mobility Total Score: 68.71

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (30%) 100.00 Congestion (V/C) (30%) 78.79 Safety (10%) 50.00 Economic Competitiveness (10%) 67.95 Multimodal + [Freight & Military] (20%) 16.42	N/A	N/A
Totals: Weight: 100% Weighted Score: 68.71		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 78.79 Safety (10%) 50.00 [Travel Time] Benefit/Cost (25%) 100.00 Accessibility / Connectivity (10%) 19.51	Percent: 15% Points:	Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 51.65		

Division Needs Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 78.79 Safety (10%) 50.00 [Travel Time] Benefit/Cost (20%) 100.00	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 40.76		

Project Data *

Existing Conditions

Existing Cross-Section:	
Speed Limit:	35
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	58518.12
Capacity:	63400
Volume/Capacity Ratio:	0.92
% Autos:	94%
% Trucks:	6%
Truck Volume:	3284
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	13
Existing Median Type (for Cost Estimation):	TWLTL
Pavement Condition Rating:	51
Actual Congested Speed:	13.3
Travel Time Index:	2.63

Project Benefits

Project Cross-Section:	
Speed Limit:	35
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	17281000
Travel Time Savings for 30 Years (Autos):	16311202.39
Travel Time Savings for 30 Years (Trucks):	969797.61
Long-Term Employment:	283.47
% Change in Economy:	0.00107544
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 11

* 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 11	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
High Country RPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$1,875,000	Cost Estimation Tool
Right-of-Way Cost:	\$450,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$2,325,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$2,325,000	