



# NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H140139

**Mode:** Highway

**Status:** Submitted

## US-21

**From/Cross Street:** From SR 1429 (Andrews Ridge Road)

**Specific Improvement Type:** 1 - Widen Existing Roadway

**To:** to SR 1135 (Bledsoe Creek Road)

**Project Category:** Regional Impact

**Length:** 3.8

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$16,183,000

### Description:

Widen to 3-lane facility with 12-foot lanes and accommodations for bicycles. Specifically, the 3 sections involved are: from SR 1429 (Andrews Ridge Road) to SR 1121 (Pine Swamp Road), and from SR 1421 (Rivers Edge Road) to Blue Ridge Street, and from SR 1206 (Sparta Parkway) to SR 1135 (Bledsoe Creek Road).

**Division(s):** Division 11

**County(s):** ALLEGHANY

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

### Project Location



**Statewide Mobility Total Score: 0**

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

**Regional Impact Total Score: 0**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 27.07	Percent: 15% Points:	Percent: 15% Points:
Safety (10%) 64.57		
[Travel Time] Benefit/Cost (25%) 0.00		
Accessibility / Connectivity (10%) 6.39		
<b>Totals: Weight: 70% Weighted Score: 13.86</b>		

**Division Needs Total Score: 0**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 27.07	Percent: 25% Points:	Percent: 25% Points:
Safety (10%) 64.57		
[Travel Time] Benefit/Cost (20%) 0.00		
<b>Totals: Weight: 50% Weighted Score: 11.87</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	47
Length (miles):	3.8
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Mountainous
Lane Width:	11
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	No
Volume (AADT):	6391.04
Capacity:	15644.71
Volume/Capacity Ratio:	0.41
% Autos:	90%
% Trucks:	10%
Truck Volume:	662.54
Crash Density:	67.08
Crash Severity:	69.99
Critical Crash Rate:	56.66
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	93
Actual Congested Speed:	41.5
Travel Time Index:	1.33

**Project Benefits**

Project Cross-Section:	3A - 2 Lane with Two Way Left Turn Lane, and Paved Shoulders
Speed Limit:	47
Length (miles):	3.8
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	-121010.84
Travel Time Savings for 30 Years (Autos):	-108465.95
Travel Time Savings for 30 Years (Trucks):	-12544.89
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?	Yes
CTP/LRTP Name:	Allegheny County Comprehensive Transportation Plan
CTP/LRTP Completion Year:	2012
Submitted by:	High Country RPO

\* 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**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 11	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

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

**Project Cost and Source**

Construction Cost:	\$13,121,000	Cost Estimation Tool
Right-of-Way Cost:	\$2,734,000	Cost Estimation Tool
Utilities Cost:	\$328,000	Cost Estimation Tool
Total Project Cost:	\$16,183,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$16,183,000</b>	