



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H129107

Mode: Highway

Status: Submitted

US-21 (New Route - Sparta Western Loop)

From/Cross Street: SR 1172 (Grandview Drive)

Specific Improvement Type: 5 - Construct Roadway on New Location

To: US 21

Project Category: Division Needs

Length: 0.69

TIP#: R-4060

Fully Funded in Draft STIP? No

Cost to NCDOT: \$8,400,000

Description:

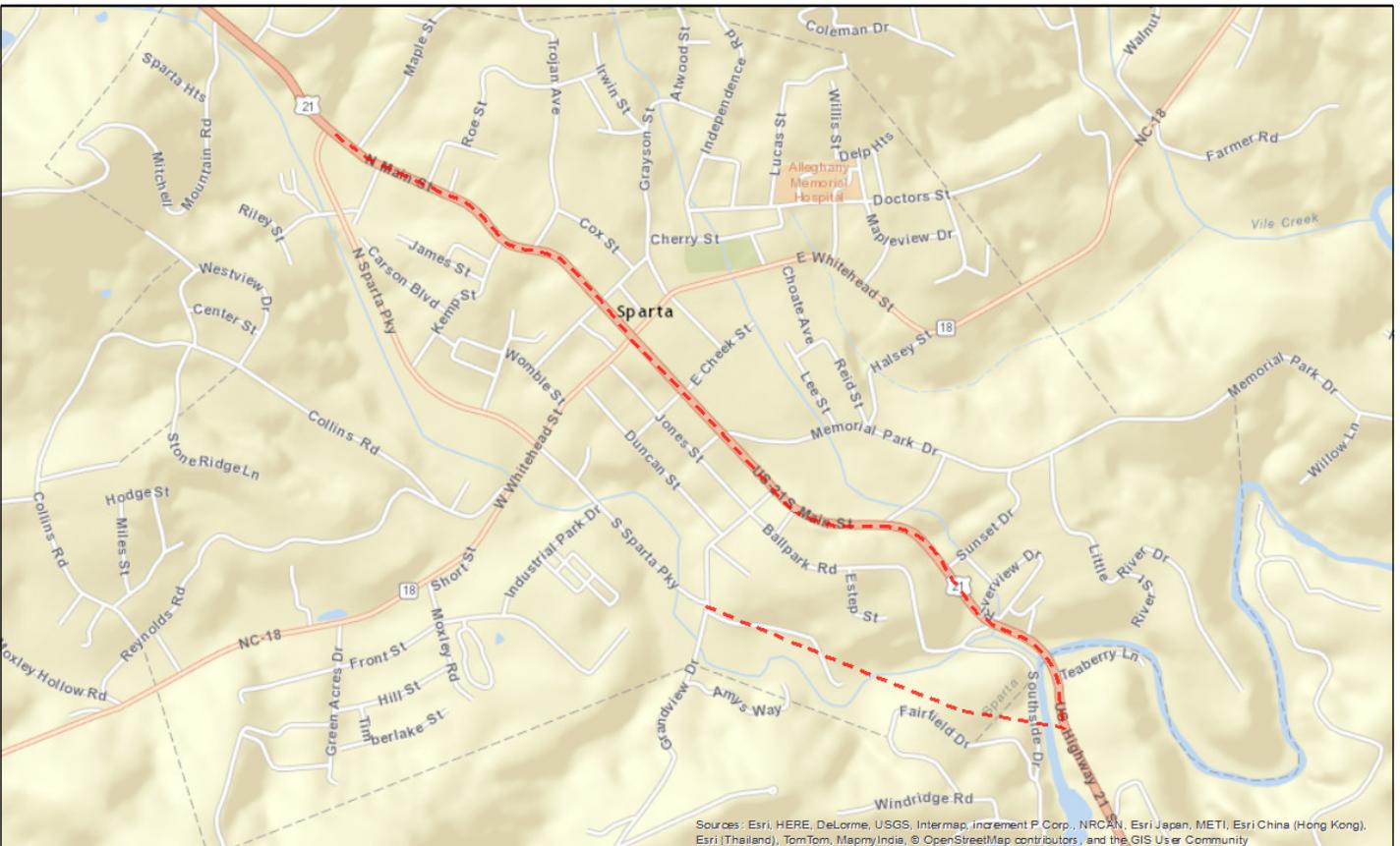
Construct Two Lanes on New Location

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
Totals: Weight: 0% Weighted Score: 0		

Regional Impact Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
	Percent: 15% Points: 0	Percent: 15% Points: 0
Totals: Weight: 0% Weighted Score: 0		

Division Needs Total Score: 64.26

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 37.16	Percent: 25% Points: 100	Percent: 25% Points: 100
Safety (10%) 59.61		
[Travel Time] Benefit/Cost (20%) 4.36		
Totals: Weight: 50% Weighted Score: 14.26		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	32
Length (miles):	1
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Mountainous
Lane Width:	11
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	8853.08
Capacity:	15799.83
Volume/Capacity Ratio:	0.56
% Autos:	90%
% Trucks:	10%
Truck Volume:	876.03
Crash Density:	63.6
Crash Severity:	51.63
Critical Crash Rate:	63.6
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	17
Existing Median Type (for Cost Estimation):	TWLTL
Pavement Condition Rating:	90
Actual Congested Speed:	40.73
Travel Time Index:	0.78

Project Benefits

Project Cross-Section:	2B - 2 Lane Undivided with Paved Shoulders, 25-45 mph
Speed Limit:	35
Length (miles):	0.69
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Major Collector
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	1597017.15
Travel Time Savings for 30 Years (Autos):	1438989.34
Travel Time Savings for 30 Years (Trucks):	158027.81
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 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	100
	0%	0	0
	0%	0	0
TOTAL Division Points		0	100

MPO/RPO

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

Project Cost and Source

Construction Cost:	\$6,000,000	TIP Unit
Right-of-Way Cost:	\$2,200,000	TIP Unit
Utilities Cost:	\$200,000	TIP Unit
Total Project Cost:	\$8,400,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$8,400,000	