



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090202-C

Mode: Highway

Status: Submitted

US-52 (New Route - Granite Quarry Bypass)

From/Cross Street: US 52 South of Granite Quarry

Specific Improvement Type: 6 - Widen Existing Roadway and Construct Part on New Location

To: Existing Multi-Lanes on US 52 North of Granite Quarry

Project Category: Statewide Mobility

Length: 4.63

TIP#: R-2903

Fully Funded in Draft STIP? No

Cost to NCDOT: \$58,284,000

Description:

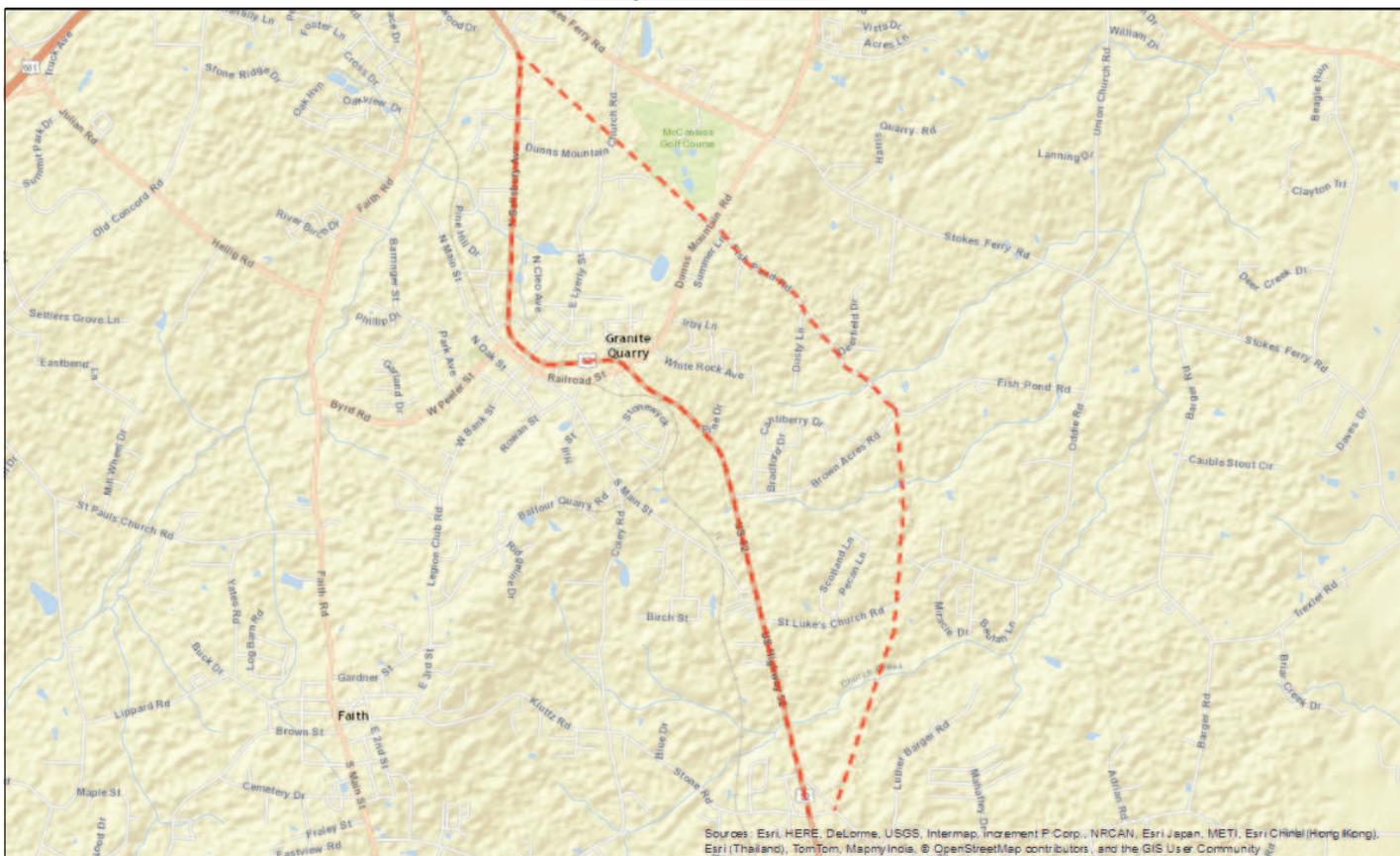
Construct Multi-Lanes on New Location.

Division(s): Division 9

County(s): ROWAN

MPOS(s)/RPO(s): Cabarrus Rowan MPO

Project Location



Statewide Mobility Total Score: 18.59

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	31.09	N/A	N/A
Safety (10%)	46.93		
Economic Competitiveness (10%)	24.38		
Multimodal + [Freight & Military] (20%)	3.87		
[Travel Time] Benefit/Cost (30%)	4.51		
Totals: Weight: 100% Weighted Score: 18.59			

Regional Impact Total Score: 32.21

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	31.09	Percent: 15% Points: 0	Percent: 15% Points: 100
Safety (10%)	46.93		
[Travel Time] Benefit/Cost (25%)	4.51		
Accessibility / Connectivity (10%)	36.16		
Totals: Weight: 70% Weighted Score: 17.21			

Division Needs Total Score: 11.81

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	31.09	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%)	46.93		
[Travel Time] Benefit/Cost (20%)	4.51		
Totals: Weight: 50% Weighted Score: 11.81			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	41
Length (miles):	4.6
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	No
Volume (AADT):	13561.14
Capacity:	31700
Volume/Capacity Ratio:	0.43
% Autos:	94%
% Trucks:	6%
Truck Volume:	774.68
Crash Density:	58.15
Crash Severity:	46.53
Critical Crash Rate:	36.14
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	38.76
Travel Time Index:	1.06

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	4.63
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	11664222.87
Travel Time Savings for 30 Years (Autos):	10997903.61
Travel Time Savings for 30 Years (Trucks):	666319.26
Long-Term Employment:	193
% Change in Economy:	0.00029467
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 9

* 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 9	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Cabarrus Rowan MPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$48,427,000	Cost Estimation Tool
Right-of-Way Cost:	\$8,801,000	Cost Estimation Tool
Utilities Cost:	\$1,056,000	Cost Estimation Tool
Total Project Cost:	\$58,284,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$58,284,000	