NCDOT Prioritization 3.0 Project Summary

SPOT ID: H111219 **Mode:** Highway **Status:** Submitted

US-421

From/Cross Street: SR 1140 (Peace Haven Road)

To:

Length: 2

Specific Improvement Type: 8 - Improve Interchange

Project Category: Statewide Mobility

TIP#:

Fully Funded in Draft STIP? Yes Statewide Mobility

Cost to NCDOT: $11,165,000

Description:

Reconstruct interchange

Division(s): Division 9

County(s): FORSYTH

MPOS(s)/RPO(s): Winston Salem Urban Area MPO

Project Location

Statewide Mobility Total Score: 61.37

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%)	50.00	N/A	N/A
Congestion (V/C) (30%)	66.48		
[Travel Time] Benefit/Cost (30%)	78.69		
Economic Competitiveness (10%)	82.33		
Multimodal + [Freight & Military] (20%)	22.93		
Totals: Weight: 100% Weighted Score: 61.37			

Regional Impact Total Score: 0

Quanitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	66.48	Percent: 15%	Percent: 15%
Safety (10%)	50.00	Points:	Points:
[Travel Time] Benefit/Cost (25%)	78.69		
Accessibility / Connectivity (10%)	26.46		
Totals: Weight: 70% Weighted Score: 43.94			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	66.48	Percent: 25%	Percent: 25%
[Travel Time] Benefit/Cost (20%)	78.69	Points:	Points:
Safety (10%)	50.00		
Totals: Weight: 50% Weighted Score: 34.03			

Project Data *

Existing Conditions

Existing Cross-Section:	
Speed Limit:	65
Length (miles);	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial-Other Freeway
Terrain Type:	Rolling
Lane Width:	9
Paved Shoulder Width:	6
Roadway has Curb & Gutter?	No
Volume (AADT):	79367.55
Capacity:	137098.95
Volume/Capacity Ratio:	0.58
% Autos:	94%
% Trucks:	6%
Truck Volume:	4585.28
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:	17
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	91
Actual Congested Speed:	51.41
Travel Time Index:	1.26

Project Benefits

Project Cross-Section:	
Speed Limit:	65
Length (miles):	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial-Other Freeway
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	38996000
Travel Time Savings for 30 Years (Autos):	36743095
Travel Time Savings for 30 Years (Trucks):	2252905
Long-Term Employment:	650
% Change in Economy:	0.00099655
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 9

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

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Winston Salem Urban Area MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		**0**	**0**

Project Cost and Source

Construction Cost:	$9,625,000	Cost Estimation Tool
Right-of-Way Cost:	$1,540,000	Cost Estimation Tool
Utilities Cost:	$0	Cost Estimation Tool
Total Project Cost:	$11,165,000	
Other Funding:	$0	None
Cost to NCDOT :	**$11,165,000**	