



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140560

Mode: Highway

Status: Submitted

I-74 (Winston-Salem Northern Beltway (Eastern Section))

From/Cross Street: I-74/US 311

Specific Improvement Type: 5 - Construct Roadway on New Location

To: US 52

Project Category: Statewide Mobility

Length: 16.8

TIP#: U-2579

Fully Funded in Draft STIP? No

Cost to NCDOT: \$305,216,500

Description:

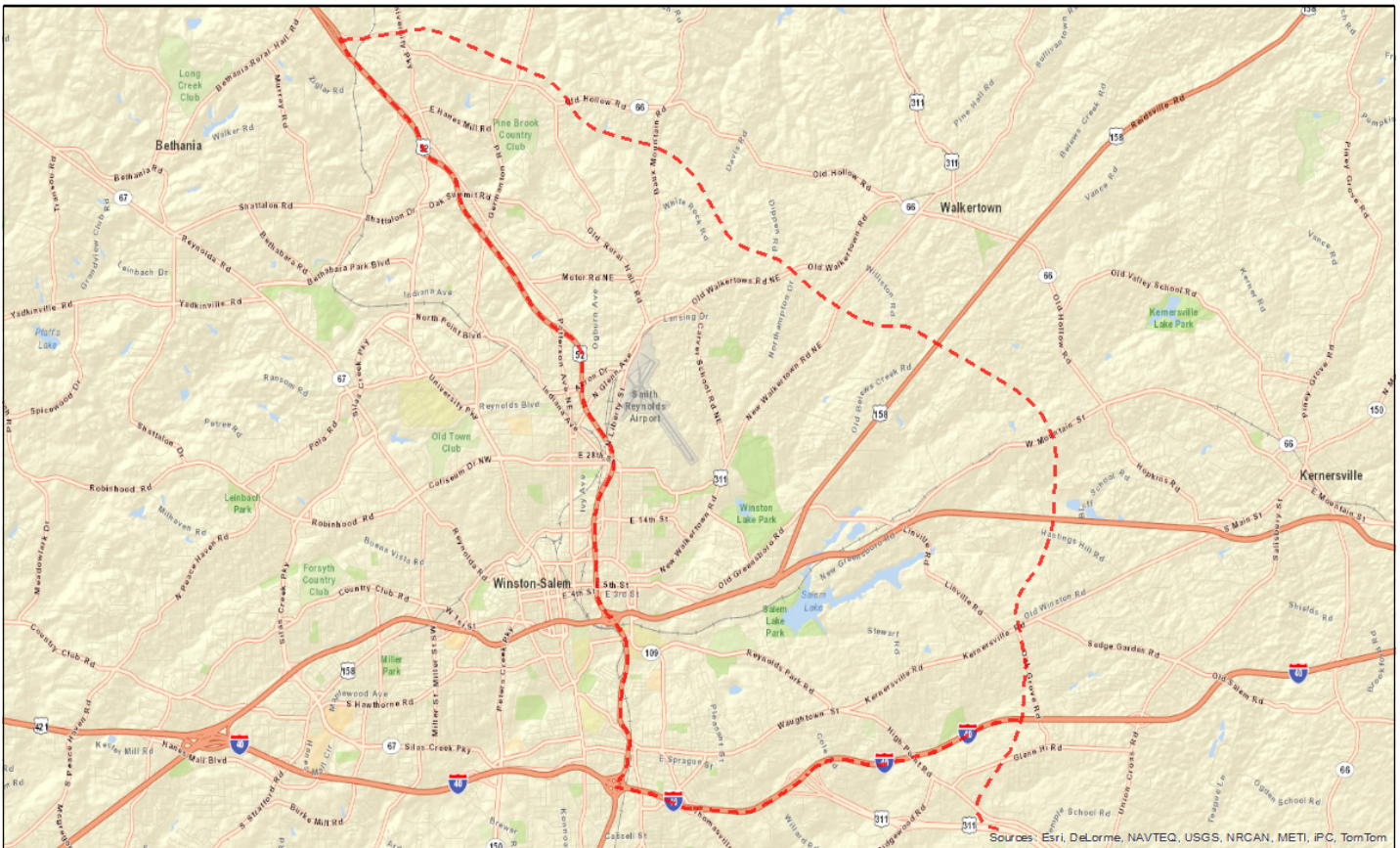
Construct Freeway on New Location as a Toll Facility
U2579 AA, AB, C, D, E, F, R-2247EB

Division(s): Division 9

County(s): FORSYTH

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

Project Location



Statewide Mobility Total Score: 44.11

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%)	72.39	N/A	N/A
Safety (10%)	68.04		
Economic Competitiveness (10%)	92.50		
Multimodal + [Freight & Military] (20%)	26.85		
[Travel Time] Benefit/Cost (30%)	3.22		
Totals: Weight: 100% Weighted Score: 44.11			

Regional Impact Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%)	72.39	Percent: 15% Points:	Percent: 15% Points:
Safety (10%)	68.04		
[Travel Time] Benefit/Cost (25%)	3.22		
Accessibility / Connectivity (10%)	24.67		
Totals: Weight: 70% Weighted Score: 35.71			

Division Needs Total Score: 0

Quantitative Score		Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%)	72.39	Percent: 25% Points:	Percent: 25% Points:
Safety (10%)	68.04		
[Travel Time] Benefit/Cost (20%)	3.22		
Totals: Weight: 50% Weighted Score: 21.93			

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	59
Length (miles):	16.7
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	7
Roadway has Curb & Gutter?	No
Volume (AADT):	62020.02
Capacity:	78206.84
Volume/Capacity Ratio:	0.79
% Autos:	91%
% Trucks:	9%
Truck Volume:	5370.74
Crash Density:	69.92
Crash Severity:	69.2
Critical Crash Rate:	65.01
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	22
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	82
Actual Congested Speed:	55.61
Travel Time Index:	0.99

Project Benefits

Project Cross-Section:	6A - 6 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	65
Length (miles):	16.8
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	43626477.51
Travel Time Savings for 30 Years (Autos):	39848562.98
Travel Time Savings for 30 Years (Trucks):	3777914.53
Long-Term Employment:	727.41
% Change in Economy:	0.00112262
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	Yes
CTP/LRTP Name:	Winston-Salem MPO LRTP
CTP/LRTP Completion Year:	2012
Submitted by:	Division 9

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line 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:	\$565,430,000	TIP Unit
Right-of-Way Cost:	\$205,095,000	TIP Unit
Utilities Cost:	\$4,700,000	TIP Unit
Total Project Cost:	\$775,225,000	
Other Funding:	\$470,008,501	See below
Cost to NCDOT :	\$305,216,500	

Other Funds:

\$1 Toll Revenue
 \$470,008,500 Toll Revenue less Roadway Maint and
 Financing