



NCDOT Prioritization 4.0 Project Summary

SPOT ID: H090637

Mode: Highway

Status: Draft

SR-118 (Fayetteville Road)

From/Cross Street: Woodcroft Pkwy

Specific Improvement Type: 1 - Widen Existing Roadway

To: Barbee Road

Project Category: Division Needs

Length: 1.34

TIP#: HoldTank

Fully Funded in Draft STIP? No

Cost to NCDOT: \$19,311,000

Description:

Widen SR-118 from Woodcroft Pkwy to Barbee Rd, to a 4-Lane Divided roadway with bicycle lanes and sidewalks.

Division(s): Division 5

County(s): DURHAM

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Points	MPO/RPO Points
	N/A	N/A
Totals: Weight: 0% Weighted Score: 0		

Regional Impact Total Score: 0

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

Division Needs Total Score: 0

Quantitative Score	Division Engineer Points	MPO/RPO Points
Congestion DIV (15%) In Progress Freight (5%) In Progress Benefit-Cost DIV (15%) In Progress Safety (10%) In Progress Accessibility / Connectivity (5%) In Progress	Percent: 25% Points:	Percent: 25% Points:
Totals: Weight: 50% Weighted Score: 0		

Criteria measures

Criteria	Measure	Raw Value	Scaled value	Criteria	Measure	Raw Value	Scaled value
Congestion	Volume/Capacity (SW 60%, REG 80%, DIV 100%)	1.2		Accessibility / Connectivity	County Economic Indicator (50%)	337	
	Volume (SW 40%, REG 20%, DIV 0%)	18902.74			Upgrade Roadway Travel Time Savings (50%)		
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)			Freight	Truck Volume (50%)	0	
Benefit-Cost (DIV)	Benefit/Cost DIV (100%)				Volume/Capacity on Non-Interstate STRAHNET or Future Interstate (30%)		
Safety (Segments)	Crash Density (33%)	76.59		Multimodal	Distance to Freight Terminal (20%)	7.6	
	Crash Severity (33%)	33.59			Distance to Multimodal Terminal (60%)	4.18	
	Critical Crash Rate (33%)	100		Volume/Capacity on Route near Multimodal Terminal (40%)			
Safety (Intersections)	Crash Frequency (50%)			Lane Width	Lane Width Difference (100%)	1	
	Severity Index (50%)			Shoulder Width	Paved Shoulder Width Difference (100%)	0	
Economic Competitiveness	%Change in Economy (50%)			Pavement Condition	Pavement Condition Rating (100%)	53	
	Long-term Jobs (50%)						

Project Data***Existing Conditions**

Existing Cross-Section:	2 Lane Undivided
Speed Limit (mph):	45
Length (miles):	1.34
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width (ft):	11
Paved Shoulder Width (ft):	4
Roadway has Curb & Gutter?	No
Volume (AADT):	17902.74
Volume (PADT):	18902.74
Peak ADT (PADT) Factor:	1.06
Capacity (vpd):	15800
Volume (PADT)/Capacity Ratio:	1.2
% Autos:	100%
% Trucks:	0%
Truck Volume (AADTT):	0
Crash Density (seg):	76.59
Crash Severity (seg):	33.59
Critical Crash Rate (seg):	100
Crash Frequency (int):	
Severity Index (int):	
Adjusted Property Tax Base Per Capita Rank:	
Population Growth Rank:	
Median Household Income Rank:	
12 Month Average Unemployment Rate Rank:	
Sum County Rank:	337
Non-Interstate STRAHNET Route?	No
Future Interstate Route?	No
Pavement Condition Rating:	53

Project Benefits

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks
Speed Limit (mph):	45
Length (miles):	1.34
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width (ft):	12
DOT Design Paved Shoulder Width (ft):	4
Travel Time Savings for 10 Years (NCSTM) - SW/REG:	4372081.79
Travel Time Savings in \$ (NCSTM) - SW/REG:	
Travel Time Savings for 10 Years (CALC) - DIV:	
Travel Time Savings in \$ (CALC) - DIV:	
Safety Benefits in \$:	
Long-Term Employment:	
% Change in Economy:	
Nearest Freight Terminal:	Raleigh-Durham International Airport
Distance to Freight Terminal (miles):	7.6
Nearest Multimodal Passenger Terminal :	Durham Station Transportation Center
Distance to Multimodal Terminal (miles):	4.18
Does project upgrade how the roadway functions?	No
Travel Time Savings/User:	
In CTP or LRTP?	Yes
CTP/LRTP Name:	DCHC MPO 2040
CTP/LRTP Completion Year:	2013
Submitted by:	Durham Chapel Hill Carrboro MPO

* 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 Points	Division Needs Points
Division 5	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact Points	Division Needs Points
Durham Chapel Hill Carrboro MPO	100%	0	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	0

Project Cost and Source

Construction Cost:	\$13,568,000	Cost Estimation Tool
Right-of-Way Cost:	\$5,128,000	Cost Estimation Tool
Utilities Cost:	\$615,000	Cost Estimation Tool
Total Project Cost:	\$19,311,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$19,311,000	