



NCDOT Prioritization 4.0 Project Summary

SPOT ID: H111036

Mode: Highway

Status: Draft

NC-86

From/Cross Street: US 70 Bypass

Specific Improvement Type: 1 - Widen Existing Roadway

To: North of NC 57

Project Category: Regional Impact

Length: 0.5

TIP#: HoldTank

Fully Funded in Draft STIP? No

Cost to NCDOT: \$33,643,000

Description:

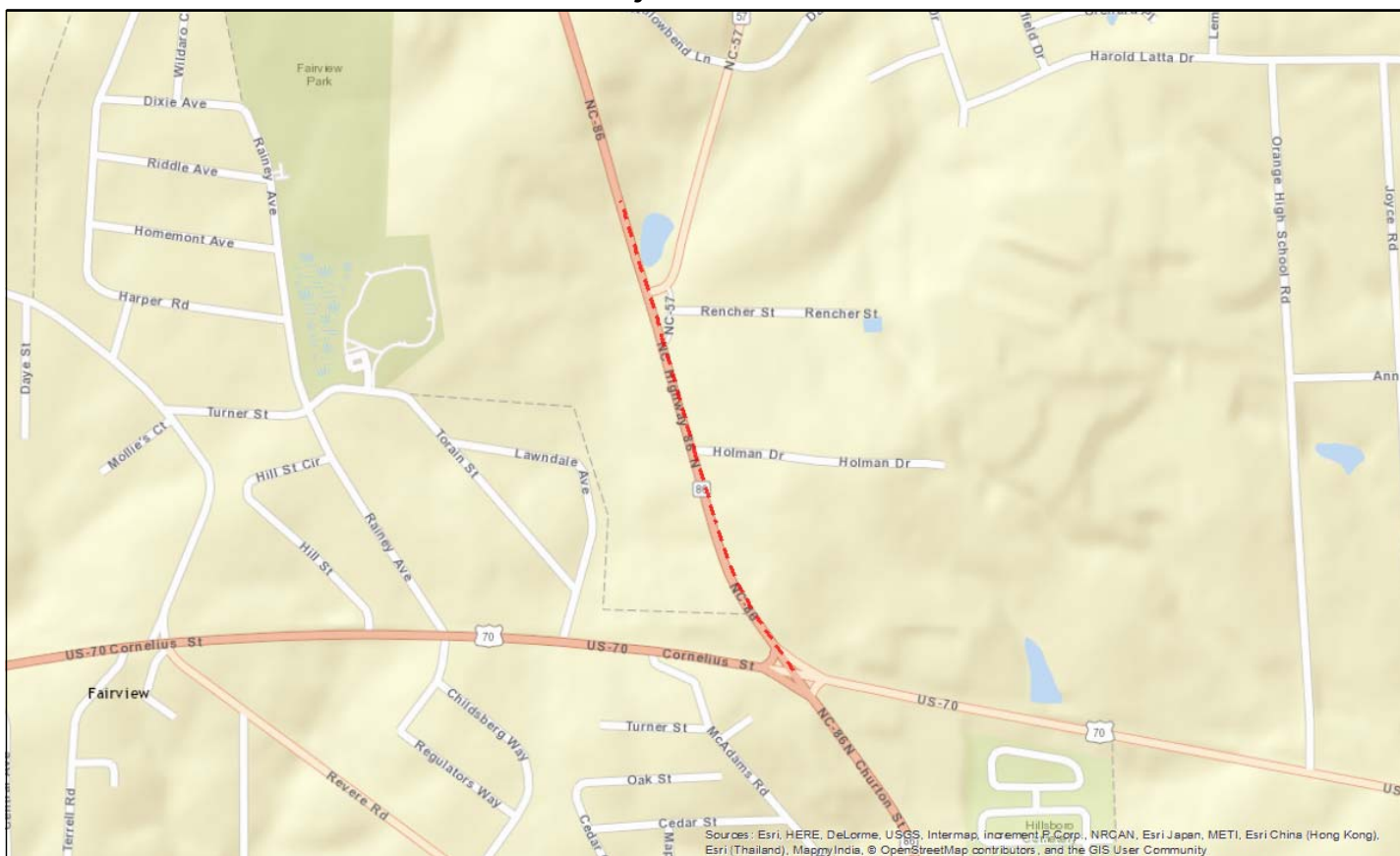
Widen Roadway to Four Lanes with a Median and Improve intersections at US 70 Bypass and NC 57 .

Division(s): Division 7

County(s): ORANGE

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
Safety (10%) Accessibility / Connectivity (10%) Congestion REG (20%) Freight (10%) Benefit-Cost SW & REG (20%)	In Progress In Progress In Progress In Progress In Progress	Percent: 15% Points: Percent: 15% Points:
Totals: Weight: 70% Weighted Score: 0		

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

Criteria measures

Criteria	Measure	Raw Value	Scaled value
Congestion	Volume/Capacity (SW 60%, REG 80%, DIV 100%)	0.9	
	Volume (SW 40%, REG 20%, DIV 0%)	14244.12	
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)		
Benefit-Cost (DIV)	Benefit/Cost DIV (100%)		
Safety (Segments)	Crash Density (33%)	66.7	
	Crash Severity (33%)	79.44	
	Critical Crash Rate (33%)	100	
Safety (Intersections)	Crash Frequency (50%)		
	Severity Index (50%)		
Economic Competitiveness	%Change in Economy (50%)		
	Long-term Jobs (50%)		

Criteria	Measure	Raw Value	Scaled value
Accessibility / Connectivity	County Economic Indicator (50%)	346	
	Upgrade Roadway Travel Time Savings (50%)		
Freight	Truck Volume (50%)	1045.33	
	Volume/Capacity on Non-Interstate STRAHNET or Future Interstate (30%)		
	Distance to Freight Terminal (20%)	22.61	
Multimodal	Distance to Multimodal Terminal (60%)	12.57	
	Volume/Capacity on Route near Multimodal Terminal (40%)		
Lane Width	Lane Width Difference (100%)	0	
Shoulder Width	Paved Shoulder Width Difference (100%)	0	
Pavement Condition	Pavement Condition Rating (100%)	97	

Project Data***Existing Conditions**

Existing Cross-Section:	2 Lane Undivided
Speed Limit (mph):	45
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width (ft):	12
Paved Shoulder Width (ft):	6
Roadway has Curb & Gutter?	No
Volume (AADT):	13470.68
Volume (PADT):	14244.12
Peak ADT (PADT) Factor:	1.06
Capacity (vpd):	15744.08
Volume (PADT)/Capacity Ratio:	0.9
% Autos:	92%
% Trucks:	8%
Truck Volume (AADTT):	1045.33
Crash Density (seg):	66.7
Crash Severity (seg):	79.44
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:	346
Non-Interstate STRAHNET Route?	No
Future Interstate Route?	No
Pavement Condition Rating:	97

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit (mph):	45
Length (miles):	0.5
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor 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:	546755.67
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):	22.61
Nearest Multimodal Passenger Terminal :	Durham Amtrak Rail Station
Distance to Multimodal Terminal (miles):	12.57
Does project upgrade how the roadway functions?	No
Travel Time Savings/User:	
In CTP or LRTP?	Yes
CTP/LRTP Name:	DCHC MPO 2040 MTP
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 7	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:	\$19,953,000	Cost Estimation Tool
Right-of-Way Cost:	\$12,223,000	Cost Estimation Tool
Utilities Cost:	\$1,467,000	Cost Estimation Tool
Total Project Cost:	\$33,643,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$33,643,000	