

NCDOT Prioritization 4.0 Project Summary

SPOT ID: H150220 Mode: Highway Status: Draft

I-85, US-15

From/Cross Street: E Club Blvd Specific Improvement Type: 8 - Improve Interchange

To: Project Category: Statewide Mobility

Length: 2 TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$10,230,000

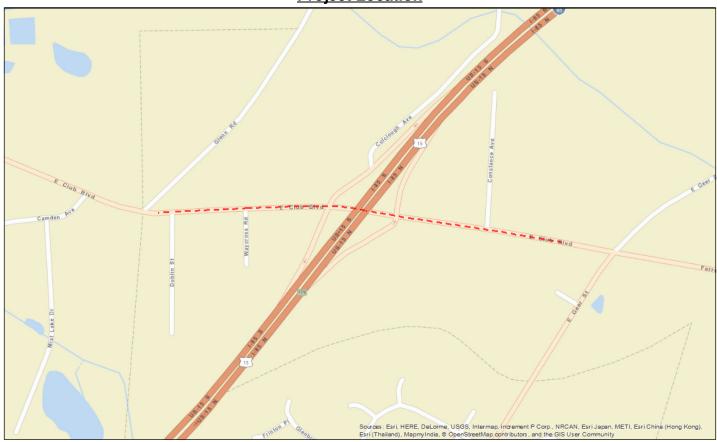
Description:

Improve interchange. modernization of this interchange. The big concern is the pre-1970's design speed for the onand off-ramps and merging. Not so much a congestion issue, but a safety issue.

Division(s): Division 5 **County(s):** DURHAM

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

Project Location



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Statewide Mobility Total Score: 0

Quantitative Score		Division Engineer Points	MPO/RPO Points
Congestion SW (30%) Safety (15%) Economic Competitiveness (10%) Multimodal (5%) Freight (15%) Benefit-Cost SW & REG (25%) Totals: Weight: 100% Weighted Score: 0	In Progress In Progress In Progress In Progress In Progress In Progress	N/A	N/A

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%) Totals: Weight: 70% Weighted Score: 0	In Progress In Progress In Progress In Progress In Progress	Percent: 15% Points:	Percent: 15% Points:

Division Needs Total Score: 0

Quantitative Score		MPO/RPO Points
In Progress In Progress In Progress In Progress In Progress	Percent: 25% Points:	Percent: 25% Points:
	In Progress In Progress In Progress In Progress	In Progress

Criteria measures

Creiteria	Measure	Raw Value	Scaled value	Creiteria	Measure	Raw Value	Scaled value
	Volume/Capacity (SW 60%, REG 80%, DIV	0.65		Accessibility /	County Economic Indicator (50%)	337	
Congestion	100%)			Connectivity	Upgrade Roadway Travel Time		
	Volume (SW 40%, REG 20%, DIV 0%)	20634.95			Savings (50%)		
D (": 0 :	,	-		1	Truck Volume (50%)	0	
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)			Funiable	Volume/Capacity on Non- Interstate STRAHNET or Future		
Benefit-Cost	Benefit/Cost DIV (100%)			Freight	Interstate (30%)		
(DIV)				1	Distance to Freight Terminal	9.72	
	Crash Density (33%)	60.88		(20%)			
Safety (Segments)	Crash Severity (33%)	33.3			Distance to Multimodal Terminal	3.4	
(Segments)	Critical Crash Rate (33%)	60.88		Multimodal	Multimodal (60%)		
Safety	Crash Frequency (50%)				Volume/Capacity on Route near Multimodal Terminal (40%)		
(Intersections)	Severity Index (50%)			Lane Width	Lane Width Difference (100%)	1	
Economic	%Change in Economy (50%)			Shoulder Width	Paved Shoulder Width Difference (100%)	0	
Competitiveness	Long-term Jobs (50%)			Pavement Condition	Pavement Condition Rating (100%)	100	

Project Data*

Existing Conditions

Existing Cross-Section:	2 Lane Undivided
Speed Limit (mph):	40
Length (miles):	2
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Major Collector
Terrain Type:	Rolling
Lane Width (ft):	11
Paved Shoulder Width (ft):	4
Roadway has Curb & Gutter?	No
Volume (AADT):	19024.97
Volume (PADT):	20634.95
Peak ADT (PADT) Factor:	1.08
Capacity (vpd):	31600
Volume (PADT)/Capacity Ratio:	0.65
% Autos:	100%
% Trucks:	0%
Truck Volume (AADTT):	0
Crash Density (seg):	60.88
Crash Severity (seg):	33.3
Critical Crash Rate (seg):	60.88
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:	100

Project Benefits

Project Cross-Section:	
Speed Limit (mph):	60
Length (miles):	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Major Collector
TerrainType:	Rolling
DOT Design Lane Width (ft):	12
DOT Design Paved Shoulder Width (ft):	4
Travel Time Savings for 10 Years (NCSTM) - SW/REG:	0
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):	9.72
Nearest Multimodal Passenger Terminal :	Durham Amtrak Rail Station
Distance to Multimodal Terminal (miles):	3.4
Does project upgrade how the roadway functions?	Yes
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.

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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

Cost to NCDOT :	\$10,230,000	
Other Funding:	\$0	None
Total Project Cost:	\$10,230,000	
Utilities Cost:	\$0	Cost Estimation Tool
Right-of-Way Cost:	\$1,650,000	Cost Estimation Tool
Construction Cost:	\$8,580,000	Cost Estimation Tool