

NCDOT Prioritization 4.0 Project Summary

SPOT ID: H150228 Mode: Highway Status: Draft

I-85, NC-86

From/Cross Street: NC 86 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

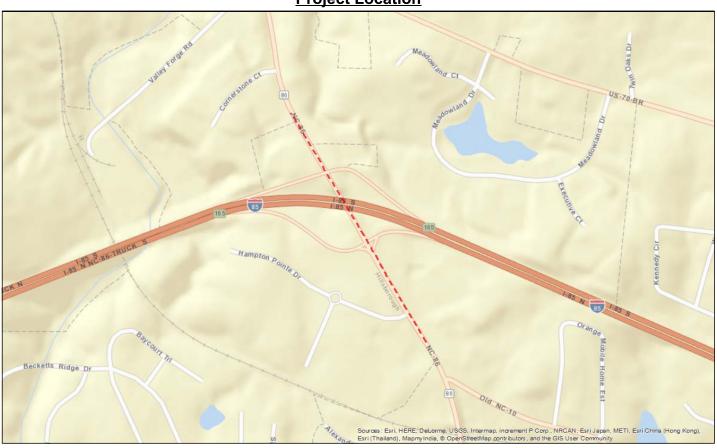
Description:

Construct new interchange to accommodate increased increased traffic & Diamond with 2-lane and 4-lane widened NC 86 on bridge with turn lanes.

Division(s): Division 7 **County(s):** ORANGE

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%)	In Progress In Progress In Progress In Progress In Progress In Progress	N/A	N/A
Totals: Weight: 100% 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%) 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		Division Engineer Points	MPO/RPO Points
Safety (10%) Accessibility / Connectivity (5%) Congestion DIV (15%) Freight (5%) Benefit-Cost DIV (15%) Totals: Weight: 50% Weighted Score: 0	In Progress In Progress In Progress In Progress In Progress	Percent: 25% Points:	Percent: 25% Points:

Criteria measures

Creiteria	Measure	Raw Value	Scaled value	Creiteria	Measure	Raw Value	Scaled value
	Volume/Capacity (SW 60%, REG 80%, DIV	0.76		Accessibility /	County Economic Indicator (50%)	346	
Congestion	100%) Volume (SW 40%, REG	24000		Connectivity	Upgrade Roadway Travel Time Savings (50%)		
	20%, DIV 0%)				Truck Volume (50%)	837.53	
Benefit-Cost (SW/REG)	Benefit/Cost SW/REG (100%)			Volume/Capacity on Non-			
Benefit-Cost	Benefit/Cost DIV (100%)			Freight	nterstate (30%)		
(DIV)	Crash Density (33%)	98.84		Distance to Freight Terminal (20%)		20.25	
Safety	Crash Severity (33%)	33.3			Distance to Multimodal Terminal	10.51	
(Segments)	Critical Crash Rate (33%)	98.84		Multimodal	(60%)		
Safety	Crash Frequency (50%)				Volume/Capacity on Route near Multimodal Terminal (40%)		
(Intersections)	Severity Index (50%)			Lane Width	Lane Width Difference (100%)	0	
Economic	%Change in Economy (50%)			Shoulder Width	Paved Shoulder Width Difference (100%)	0	
Competitiveness	Long-term Jobs (50%)			Pavement Condition	Pavement Condition Rating (100%)	93	

Project Data*

Existing Conditions

Existing Cross-Section:	2 Lane Undivided
Speed Limit (mph):	45
Length (miles):	2
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width (ft):	12
Paved Shoulder Width (ft):	4
Roadway has Curb & Gutter?	No
Volume (AADT):	19078.23
Volume (PADT):	24000
Peak ADT (PADT) Factor:	1.26
Capacity (vpd):	31600
Volume (PADT)/Capacity Ratio:	0.76
% Autos:	96%
% Trucks:	4%
Truck Volume (AADTT):	837.53
Crash Density (seg):	98.84
Crash Severity (seg):	33.3
Critical Crash Rate (seg):	98.84
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:	93

Project Benefits

Project Cross-Section:	
Speed Limit (mph):	45
Length (miles):	2
Facility Type:	Arterial
Access Control:	Full
Functional Classification:	Minor Arterial
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):	20.25
Nearest Multimodal Passenger Terminal :	Durham Amtrak Rail Station
Distance to Multimodal Terminal (miles):	10.51
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 On!ine tool and associated databases.

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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

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