

Highways

Tables and Maps

The highway and intersection/interchange projects to be included in the Preferred Option are shown in the maps and tables in this document. The DCHC MPO believes it is important to show not only which highway projects are included in the Preferred Option but also those that are not included. In the highway table, the **red font** *Pref Opt* column indicates whether or not a project is included, i.e., “Y” = yes. The four columns in **blue font** and the comment column provide information on why a project is in the Preferred Option. Those columns include:

- Modernizations do not add vehicle travel lanes. In Urban areas, they generally add bicycle, pedestrian and transit facilities, add turn lanes at intersections, sometimes widen a narrow road, and sometimes improve curves and sight lines. In Rural areas, they widen a narrow road and shoulder, add turn lanes at intersections, and sometimes improve curve and sight lines.

The current transportation legislation (STI – Strategic Transportation Initiative) and process that controls the prioritization of projects for funding does not favor modernization projects. Prioritization favors projects that add capacity to heavily congested roadways. As such, the funding of these modernization projects assumes changes to the STI prioritization process that values modernization benefits, and assumes that the funding based on the NCFirst Commission recommendations will be available for modernization projects.

- Bus advantage improvements add travel lanes to roadways but also provide a travel time advantage to transit vehicles when compared to general traffic. Transit buses would be able to use the uncongested toll lanes of a managed lane roadway to reduce travel delays. More specifically, there is a possibility that two additional lanes in each direction would be added to NC 147 between the East End Connector and I-40: one general purpose lane and one bus lane.

The Preferred Option does not include any bus advantage, i.e., managed lanes.

- Grid, or connector roads, improve bicycle, pedestrian and transit trips by reducing the trip length, and can also reduce vehicle VMT (vehicle miles traveled). These roadways are mostly built by developers.
- Boulevard improvements typically include: one to three travel lanes in each direction; a raised, landscaped median; sidewalks; bike lanes; and bus pull outs, if preferred. A multi-use path can be substituted for the sidewalks and bike lanes. The intersection with other roadways is at grade, i.e., no bridge or ramps, and provides facilities for safe bicyclist and pedestrian crossing. The posted speed limits are 35-45mph.

The table is sorted by county and project name. It does not provide all of the available roadway project information to keep the table in a readable font size. Additional information is available by viewing the roadway map at the top of the 2050 MTP – Preferred Option web page (<https://www.dhcmpo.org/what-we-do/programs-plans/transportation-plans/2050-metropolitan-transportation-plan>) In the online map, the user can click on the roadway line or interchange point to view a pop-up of more detailed data such as:

- AQYEAR – The Air Quality Year designates the year, if before 2030, or decade in which the project will be operational. This designation helps demonstrate that the MTP is accountable to the federal fiscal constraint requirement and air quality determinations.
- STI -- The North Carolina Strategic Transportation Investments (STI) funding tiers, i.e., St = statewide, Reg = regional or Div = division, are identified to abide by the current state funding process.
- TIP – This field designates the ID, if it exists, for the Transportation Improvement Program (TIP). The TIP identifies transportation projects that are likely to receive funding in the next ten years.

For the most part, new and upgraded interchanges/intersections are assumed to be part of the highway projects – not separate interchange projects. None of the interchanges were designated as a modernization, bus-advantage or grid project, and thus those data fields are not shown.

Highway Map

The highway maps on the next page shows the highway improvements that were considered for the Preferred Option. An interactive online map is also available at the top of the Preferred Option web page (<https://www.dhcmpo.org/what-we-do/programs-plans/transportation-plans/2050-metropolitan-transportation-plan>)

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2050 MTP -- Preferred Option
 Highways

Project	From	To	Existing Lanes	Proposed Lanes	Improvement	Pref. Opt.	Modernization	Bus Advantage	Grid	Comments	Estimated Cost
Chatham County											
Jack Bennet Rd/Lystra Rd	US 15-501 South	Farrington Mill/Point Rd	2	2	Modernization	Y	Y	N	N		\$ 28,793,800
NC 751	Martha's Chapel Rd	O'Kelly Ch. Rd	2	4	Widening	N	N	N	N		\$ 69,400,000
US 15-501	Smith Level Rd	US 64	4	4	Synchronized Street	Y	Y	N	N		\$ 117,700,000
Yates Store Rd Extension	Yates Store Rd	Wake Rd	0	2	New Location	Y	N	N	Y		\$ 16,126,600
Durham County											
Angier Av Ext	US 70	Northern Durham Pkwy	0	2	New Location	Y	N	N	Y	To be built by developer; in dev't review in 2021	\$ 7,050,100
Angier/Glover Connector	Ellis Rd	Glover Rd	0	2	New Location	N	N	N	Y	Durham deleted from Vision	\$ 12,075,000
Carver St Ext	Armfield St	Old Oxford Rd	0	2	New Location	Y	N	N	N	Funded before 2020 - completed	\$ - -
Crown Pkwy/Roche Dr	Page Rd	T.W. Alexander Dr	0	2	New Location	Y	N	N	Y		\$ 15,457,400
Danziger Dr Extension	Mt Moriah Rd	E Lakewood Dr	0	2	New Location	Y	N	N	Y		\$ 7,177,800
Duke St	I-85	W Lakewood Av north of NC 98 in Durham	2	2	Two-way conversion	Y	Y	N	Y	Cost is from MOVEDurham Study	\$ 4,435,000
East End Connector (EEC)	NC 147	Durham	0	4	New Location	Y	N	N	N	Funded before 2020	\$ -
Falconbridge Rd Connector	Falconbridge Rd	Farrington Rd	0	2	New Location	N	N	N	N		\$ 1,717,800
Falconbridge Rd Extension	Farrington Rd	NC 54	0	4	New Location	Y	N	N	Y		\$ 23,359,000
Fayetteville Rd	Woodcroft Pkwy	Barbee Rd	2	4	Widening	N	N	N	N		\$ 21,381,000
Fayetteville Rd	Barbee Rd	Cornwallis Rd	2	4	Widening	Y	N	N	N	Under construction; will be operational in Nov/2021	\$ -
Fayetteville Rd	Woodcroft Pkwy	Barbee Rd	2	2	Modernization	Y	Y	N	N	Durham added to Vision as modernization	\$ 10,495,190
Garrett Rd	NC 751	Old Durham Rd	2	4	Widening	N	N	N	N		\$ 22,489,600
Garrett Rd	Old Durham Rd	US 15-501	2	4	Widening	N	N	N	N		\$ 10,865,400
Glover Rd	Angier	US 70	0	2	New Location	Y	N	N	Y		\$ 5,199,600
Hebron Rd Extension	Hebron Rd	Roxboro Rd (501 N)	0	2	New Location	Y	N	N	Y		\$ 5,056,800
Holloway St (NC 98)	Miami Blvd	Nichols Farm Dr	4	4	Modernization	Y	Y	N	N		\$ 85,800,000
Hope Valley Rd (NC 751)	S Roxboro St	Woodcroft Parkway	2	4	Widening	N	N	N	N		\$ 12,400,000
Hope Valley Rd (NC 751)	NC 54	Woodcroft Pkwy	4	4	Modernization	Y	N	N	N		\$ 2,998,626
Hopson Rd	Davis Dr	S Miami Blvd (NC 54)	2	4	Widening	Y	N	N	Y	Built by developer in 2021	\$ 7,280,000
Hopson Rd	Louis Stephens Dr	Davis Dr	2	4	Widening	N	N	N	N		\$ 12,873,000
I-40 (westbound auxiliary lane)	NC 147	NC 55	6	7	Widening	N	N	N	N		\$ 10,660,000
I-40 Managed Lane	NC 54	US 15-501	6	8	Widening	N	N	Y	N	Durham deleted from Vision	\$ 85,621,000
I-40 Managed Lanes	Wake County Line	NC 147	8	10	Widening	N	N	Y	N	Durham deleted from Vision	\$ 446,464,000
I-40 Managed Lanes	NC 147	NC 54	6	10	Widening	N	N	Y	N	Durham deleted from Vision	\$ 250,290,000
I-40 Managed Roadway	Wake County Line	NC 54	8	8	Modernization	Y	Y	N	N	MPO staff added to Vision	\$ 34,000,000
I-40/ NC 54 ramp	Farrington Rd.	I-40	0	1	New Location	N	N	N	N		\$ 2,240,000
I-85	US 70	Red Mill Rd	4	6	Widening	N	N	N	N		\$ 64,171,000
Leesville Rd Ext	US 70/Page Rd Ext	Leesville Rd	0	2	New Location	Y	N	N	Y	Built as part of US 70 (U-5720)?	\$ 3,701,600
Lynn Rd Extension	US 70	Existing Lynn Rd	0	2	New Location	Y	N	N	Y		\$ 9,606,800
Lynn Rd/Pleasant Dr Connector	Lynn Rd	Pleasant Dr	0	2	New Location	Y	N	N	Y	Part of East End Connector	\$ 5,111,400
Mangum St	W Lakewood Av	N Roxboro St	2	2	Two-way conversion	Y	Y	N	Y	Cost is from MOVEDurham Study	\$ 2,870,000
N Duke St (501 N)	I-85	N Roxboro split	5	4	Modernization	Y	Y	N	N		\$ 18,590,600

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N Gregson ST/Vickers Av	W Club Blvd	University Dr	2	2	Two-way conversion	Y	Y	N	Y	Cost is from MOVEDurham Study	\$ 4,435,000
NC 147 (boulevard conversion)	Swift Av	East End Connector	4	4	Boulevard	Y	Y	N	N		\$ 69,896,559
NC 147 (operational improvements)	Swift Av	East End Connector	4	4	Operational	N	Y	N	N		\$ 81,323,200
NC 147 (possible managed lanes)	Future I-885	I-40	4	8	Widening	N	N	Y	N	Durham deleted from Vision	\$ 250,947,200
NC 54	I-40 Interchange	NC 751	2	4	Widening	N	N	N	N		\$ 55,100,000
NC 54	NC 751	Highgate Dr	2	4	Widening	N	N	N	N		\$ 45,800,000
NC 54	Fayetteville	Barbee	2	4	Widening	N	N	N	N		\$ 47,040,000
NC 54	Barbee	NC 55	2	4	Widening	N	N	N	N		\$ 42,800,000
NC 54	Highgate Dr	Fayetteville Rd	4	4	Modernization	Y	Y	N	N		\$ 2,998,626
NC 54	NC 751	Highgate Dr	2	2	Modernization	Y	Y	N	N		\$ 11,244,846
NC 54	I-40 Interchange	NC 751	2	2	Modernization	Y	Y	N	N	Durham changed to Modernization	\$ 8,995,877
NC 54	Fayetteville	Barbee	2	2	Modernization	Y	Y	N	N	Durham changed to Modernization	\$ 7,496,564
NC 54	Barbee	NC 55	2	2	Modernization	Y	Y	N	N	Durham changed to Modernization	\$ 9,745,533
NC 54 (widening; superstreet)	I-40	Barbee Chapel Rd	4	6	Widening	N	N	N	N	Orange County added to Vision	\$ 28,576,000
NC 54 (widening; superstreet)	I-40	Barbee Chapel Rd	4	4	Modernization	Y	Y	N	N	Durham changed to Modernization	\$ 11,994,502
NC 55 (Alston Ave)	NC 147	Main St	2	4	Widening	Y	N	N	N	Funded before 2020; operational in 2021	\$ -
NC 55 (Alston Ave)	Main St	NC 98	2	2	Modernization	Y	Y	N	N	Funded before 2020; operational in 2021	\$ -
NC 55 (Alston Ave)	Main St	NC 98	2	4	Modernization	Y	Y	N	N	Possible restriping from 2 to 4 lanes	\$ 1,400
NC 751	NC 54	Southpoint Auto Park Blvd	2	4	Widening	N	N	N	N	Some sections complete, but mostly still two-lane	\$ 21,800,000
NC 751	Renaissance Pkwy	O'Kelly Chapel Rd	2	4	Widening	Y	N	N	N	Developer will build based on water/sewer agreement	\$ 30,375,800
Northern Durham Pkwy	US 70 E	Sherron Rd	0	2	Modernization	Y	Y	N	N	Built by development; modernization will be needed	\$ 32,900,000
Northern Durham Pkwy	I 85 North	Old Oxford Hwy	0	4	New Location	N	N	N	N		\$ 32,607,400
Northern Durham Pkwy	Sherron Rd	NC 98	0	2	Modernization	Y	Y	N	N	Built by development; modernization will be needed	\$ 19,040,000
Patriot Dr Extension	S Miami Blvd	Page Rd	0	2	New Location	Y	N	N	Y		\$ 18,320,400
Roxboro Rd (501 N)	Duke St	Goodwin Rd	4	4	Modernization	Y	Y	N	N		\$ 20,403,600
Roxboro St	Cornwallis Rd	MLK Pkwy	0	4	New Location	N	N	N	Y	Durham deleted from Vision; environmental concerns	\$ 16,888,200
Roxboro St	W Lakewood Av	W Markham Av	2	2	Two-way conversion	Y	Y	N	Y	Cost is from MOVEDurham Study	\$ 2,870,000
Sherron Rd	S Mineral Springs Rd	Stallings Rd	2	4	Widening	N	N	N	N		\$ 35,004,200
Southwest Durham Dr	Sawyer Dr	Old Chapel Hill Rd	2	4	Widening	N	N	N	N		\$ 7,604,800
Southwest Durham Dr	US 15-501 Business	Mt Moriah Rd	0	4	New Location	Y	N	N	Y		\$ 5,133,800
Southwest Durham Dr	NC 54	I-40	0	2	New Location	Y	N	N	Y		\$ 17,362,800

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US 15-501 (boulevard conversion)	US 15-501 Bypass	I-40	6	6	Boulevard	Y	Y	N	N		\$ 46,597,706
US 15-501 (expressway conversion)	US 15-501 Bypass	I-40	6	6	Expressway	N	N	N	N		\$ 195,183,000
US 15-501 Bypass	MLK Parkway	I-85	4	6	Widening	N	N	N	N		\$ 113,027,600
US 70 (freeway conversion)	S Miami Blvd	MPO Boundary	4	6	Freeway	N	N	N	N		\$ 95,340,000
US 70 (freeway conversion)	Lynn Rd	S Miami Blvd	4	6	Freeway	N	N	N	N		\$ 87,780,000
US 70 (freeway conversion)	S Miami Blvd	MPO Boundary	4	4	Modernization	Y	Y	N	N	Durham changed to Modernization	\$ 58,247,133
US 70 (freeway conversion)	Lynn Rd	S Miami Blvd	4	4	Modernization	Y	Y	N	N	Durham changed to Modernization	\$ 37,278,165
W Morgan/W Ramseur/	N Roxboro St	W Main St	4	4	Two-way conversation	Y	Y	N	Y	Cost is ballpark figure	\$ 16,500,000
Wake Forest Hwy (NC 98)	Nichols Farm Dr	Wake County Line	2	4	Widening	N	N	N	N		\$ 67,863,600
Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	0	2	New Location	Y	N	N	Y		\$ 3,793,000
Orange County											
Eno Mountain Rd realignment	Mayo St	Eno Mountain Rd	2	2	New Location	Y	N	N	Y		\$ 5,800,000
Eubanks Rd	Millhouse Rd	Rex Rd/Kousa trail	2	4	Widening	N	N	N	N		\$ 1,086,400
Fordham Blvd (US 15-501)	I-40	Ephesus Ch Rd	4	4	Modernization	Y	Y	N	N		\$ 46,586,400
Fordham Blvd (US 15-501)	NC 54	Ephesus Ch Rd	4	4	Modernization	Y	Y	N	N		\$ 49,481,600
Fordham Blvd (US 15-501)	NC 54	NC 86 (S Columbia St)	4	4	Modernization	Y	Y	N	N		\$ 39,600,000
Freeland Memorial Extension	S Churton St	New Collector Rd	0	2	New Location	Y	N	N	Y		\$ 4,484,200
Homestead Rd	Old NC 86	Rogers Rd	2	2	Modernization	Y	Y	N	N		\$ 14,327,600
Homestead Rd	Rogers Rd	NC 86	2	2	Modernization	Y	Y	N	N		\$ 9,597,000
I-40	NC 86	I-85	4	6	Widening	Y	N	N	N	First four years of STIP	\$ 107,290,000
I-40	Durham County line	NC 86	4	6	Widening	Y	N	N	N	First four years of STIP	\$ 68,851,000
I-85	Orange Grove Rd	Sparger Rd	4	6	Widening	Y	N	N	N	Orange County added to Vision	\$ 186,760,000
Lake Hogan Farms Rd	Eubanks Rd	Legends Way	0	2	New Location	Y	N	N	Y		\$ 6,169,800
Legion Rd Ext	Legion Rd	Fordham Blvd	0	2	New Location	Y	N	N	Y		\$ 2,100,000
Marriott Way	Friday Center Dr	Barbee Chapel Rd	0	2	New Location	Y	N	N	Y		\$ 954,800
Mt Carmel Ch Rd	US 15-501	Bennett Rd	2	2	Modernization	Y	Y	N	N		\$ 2,795,800
NC 54	Fordham Blvd (US 15-501)	Barbee Chapel Rd	6	6	Modernization	Y	Y	N	N		\$ 59,234,000
NC 54	Old Fayetteville Rd	Orange Grove Road	2	2	Modernization	Y	Y	N	N		\$ 50,040,000
NC 86	Old NC 10	US 70 Business	2	4	Widening	Y	N	N	N	Orange County added to Vision	\$ 10,162,600
NC 86 (and US 70 intersection)	US 70 Bypass	North of NC 57	2	4	Widening	Y	N	N	N	Orange County added to Vision	\$ 21,300,000
New Collector Rd	Orange Grove Rd Ext	Becketts Ridge Rd New Hope Commons	0	2	New Location	Y	N	N	Y		\$ 10,124,800
New Hope Commons Dr Extension	Eastowne Dr	Dr	0	2	New Location	Y	N	N	Y		\$ 6,423,200
Orange Grove Connector	Orange Grove Rd	NC 86	0	2	New Location	Y	N	N	Y		\$ 7,418,600
Purefoy Rd Ext	Sandberg Ln	Weaver Dairy Rd	0	2	New Location	Y	N	N	Y		\$ 5,287,800
S Churton St	Eno River in Hillsborough	I-40	2	4	Widening	Y	N	N	N	Orange County added to Vision	\$ 79,178,000
S Elliot Rd Ext	Fordham Blvd	Ephesus Church Rd	0	2	New Location	Y	N	N	Y		\$ 5,922,000