

2050 MTP – Preferred Option -- 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. In the tables, the two columns in **blue font** designate whether a project is included in the Vision and Traditional scenarios. The three columns in **green font** provide additional information on why a project might be included in the Vision scenario:

- 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.
- 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.
- 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.

The comment column provides information on why a particular roadway project might be included in the Vision scenario.

The table 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.dchcmpo.org/what-we-do/programs-plans/transportation-plans/2050-metropolitan-transportation-plan>) (Note: map available by 10/13/21) 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. None of the interchanges were designated as a modernization, bus-advantage or grid project, and thus that data is not shown.

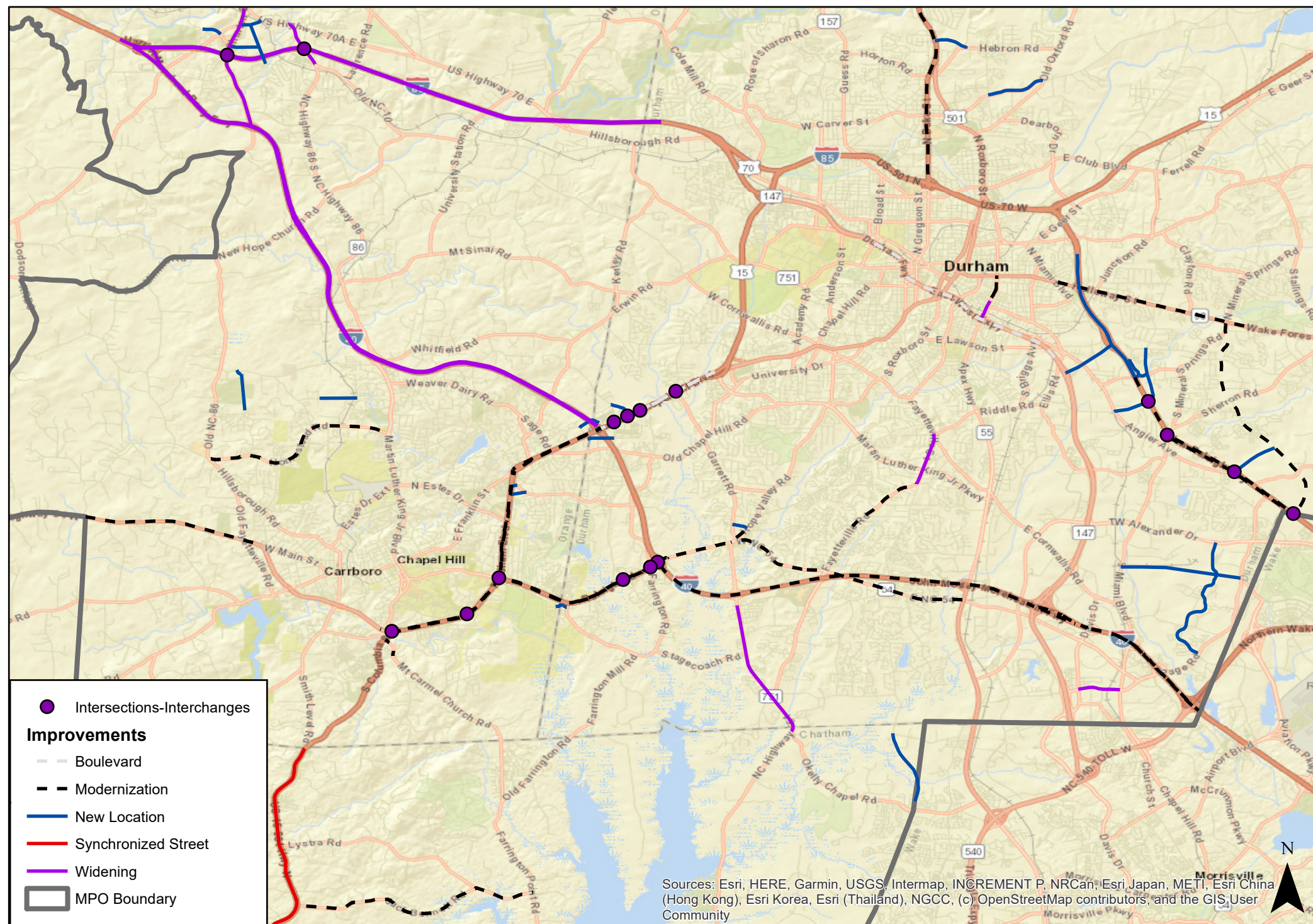
Highway Map

The highway maps on the next two pages show the proposed highway improvements for the Vision and Traditional scenarios of the Preferred Option. An interactive online map is also available at the top of the Preferred Option web page (<https://www.dchcmpo.org/what-we-do/programs-plans/transportation-plans/2050-metropolitan-transportation-plan>) (Note: map available by 10/13/21).

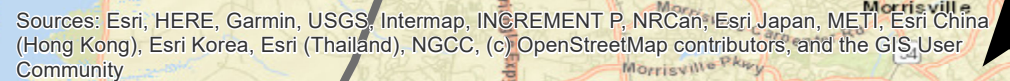
2050 Metropolitan Transportation Plan (MTP)

Preferred Option -- Vision

MPO Board 10/13/2021 Item 10



MPO Board 10/13/2021 Item 10



2050 MTP - Preferred Option
Highways

MPO Board 10/13/2021 Item 10

Project	From	To	Existing Lanes	Proposed Lanes	Improvement	Vision	Traditional	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	Y	N	N		\$ 28,793,800
NC 751	Martha's Chapel Rd	O'Kelly Ch. Rd	2	4	Widening	N	N	N	N	N		\$ 69,400,000
US 15-501	Smith Level Rd	US 64	4	4	Synchronized Street	Y	Y	Y	N	N		\$ 117,700,000
Yates Store Rd Extension	Yates Store Rd	Wake Rd	0	2	New Location	Y	Y	N	N	Y		\$ 16,126,600
Durham County												
Angier Av Ext	US 70	Northern Durham Pkwy	0	2	New Location	Y	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	Y	N	N	Y	Durham deleted from Vision	\$ 12,075,000
Carver St Ext	Armfield St	Old Oxford Rd	0	2	New Location	Y	Y	N	N	N	Funded before 2020	\$ -
Crown Pkwy/Roche Dr	Page Rd	T.W. Alexander Dr	0	2	New Location	Y	Y	N	N	Y		\$ 15,457,400
Danziger Dr Extension	Mt Moriah Rd	E Lakewood Dr	0	2	New Location	Y	Y	N	N	Y		\$ 7,177,800
East End Connector (EEC)	NC 147	north of NC 98 in Durham	0	4	New Location	Y	Y	N	N	N	Funded before 2020	\$ -
Falconbridge Rd Connector	Falconbridge Rd	Farrington Rd	0	2	New Location	N	N	N	N	N		\$ 1,717,800
Falconbridge Rd Extension	Farrington Rd	NC 54	0	4	New Location	N	N	N	N	N		\$ 23,359,000
Fayetteville Rd	Woodcroft Pkwy	Barbee Rd	2	2	Modernization	Y	N	Y	N	N	Durham added to Vision as modernization	\$ -
Fayetteville Rd	Barbee Rd	Cornwallis Rd	2	4	Widening	Y	Y	N	N	N	Under construction	\$ -
Fayetteville Rd	Woodcroft Pkwy	Barbee Rd	2	4	Widening	N	Y	N	N	N		\$ 21,381,000
Garrett Rd	Old Durham Rd	US 15-501	2	4	Widening	N	N	N	N	N		\$ 10,865,400
Garrett Rd	NC 751	Old Durham Rd	2	4	Widening	N	N	N	N	N		\$ 22,489,600
Glover Rd	Angier	US 70	0	2	New Location	Y	Y	N	N	Y		\$ 5,199,600
Hebron Rd Extension	Hebron Rd	Roxboro Rd (501 N)	0	2	New Location	Y	Y	N	N	Y		\$ 5,056,800
Holloway St (NC 98)	Miami Blvd	Nichols Farm Dr	4	4	Modernization	Y	Y	Y	N	N		\$ 85,800,000
Hope Valley Rd (NC 751)	S Roxboro St	Woodcroft Parkway	2	4	Widening	N	N	N	N	N		\$ 12,400,000
Hope Valley Rd (NC 751) [2]	NC 54	Woodcroft Pkwy	4	4	Modernization	Y	N	N	N	N		\$ -
Hopson Rd	Davis Dr	S Miami Blvd (NC 54)	2	4	Widening	Y	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	N		\$ 12,873,000
I-40 (westbound auxiliary lane)	NC 147	NC 55	6	7	Widening	N	Y	N	N	N		\$ 10,660,000
I-40 Managed Lane	NC 54	US 15-501	6	8	Widening	N	Y	N	Y	N	Durham deleted from Vision	\$ 85,621,000
I-40 Managed Lanes	NC 147	NC 54	6	10	Widening	N	Y	N	Y	N	Durham deleted from Vision	\$ 250,290,000
I-40 Managed Lanes	Wake County Line	NC 147	8	10	Widening	N	Y	N	Y	N	Durham deleted from Vision	\$ 446,464,000
I-40 Managed Roadway	Wake County Line	NC 54	8	8	Modernization	Y	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	N		\$ 2,240,000
I-85	US 70	Red Mill Rd	4	6	Widening	N	Y	N	N	N		\$ 64,171,000
Leesville Rd Ext	US 70/Page Rd Ext	Leesville Rd	0	2	New Location	N	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	Y	N	N	Y		\$ 9,606,800

2050 MTP - Preferred Option
Highways

MPO Board 10/13/2021 Item 10

Project	From	To	Existing Lanes	Proposed Lanes	Improvement	Vision	Traditional	Modernization	Bus Advantage	Grid	Comments	Estimated Cost
Lynn Rd/Pleasant Dr Connector	Lynn Rd	Pleasant Dr	0	2	New Location	Y	Y	N	N	Y	Part of East End Connector	\$ 5,111,400
N Duke St (501 N)	I-85	N Roxboro split	5	4	Modernization	Y	Y	Y	N	N		\$ 18,590,600
NC 147 (boulevard conversion)	Swift Av	East End Connector	4	4	Boulevard	Y	N	Y	N	N		\$ -
NC 147 (operational improvements)	Swift Av	East End Connector	4	4	Operational	N	Y	Y	N	N		\$ 81,323,200
NC 147 (possible managed lanes)	Future I-885	I-40	4	8	Widening	N	Y	N	Y	N	Durham deleted from Vision	\$ 250,947,200
NC 54	Highgate Dr	Fayetteville Rd	4	4	Modernization	Y	Y	Y	N	N		\$ -
NC 54	NC 751	Highgate Dr	2	2	Modernization	Y	N	Y	N	N		\$ -
NC 54	I-40 Interchange	NC 751	2	2	Modernization	Y	N	Y	N	N	Durham changed to Modernization	\$ -
NC 54	Fayetteville	Barbee	2	2	Modernization	Y	N	Y	N	N	Durham changed to Modernization	\$ -
NC 54	Barbee	NC 55	2	2	Modernization	Y	N	Y	N	N	Durham changed to Modernization	\$ -
NC 54	Barbee	NC 55	2	4	Widening	N	N	N	N	N		\$ 42,800,000
NC 54	NC 751	Highgate Dr	2	4	Widening	N	N	N	N	N		\$ 45,800,000
NC 54	Fayetteville	Barbee	2	4	Widening	N	N	N	N	N		\$ 47,040,000
NC 54	I-40 Interchange	NC 751	2	4	Widening	N	N	N	N	N		\$ 55,100,000
NC 54 (widening; superstreet)	I-40	Barbee Chapel Rd	4	4	Modernization	Y	N	Y	N	N	Durham changed to Modernization	\$ -
NC 54 (widening; superstreet)	I-40	Barbee Chapel Rd	4	6	Widening	N	N	N	N	N	Orange County added to Vision	\$ 28,576,000
NC 55 (Alston Ave)	Main St	NC 98	2	2	Modernization	Y	Y	Y	N	N	Funded before 2021	\$ -
NC 55 (Alston Ave)	Main St	NC 98	2	4	Modernization	Y	Y	Y	N	N		\$ 1,400
NC 55 (Alston Ave)	NC 147	Main St	2	4	Widening	Y	Y	N	N	N	Funded before 2020	\$ -
NC 751	NC 54	Southpoint Auto Park Blvd	2	4	Widening	N	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	Y	N	N	N	Developer will build based on water/sewer agreement	\$ 30,375,800
Northern Durham Pkwy	Sherron Rd	NC 98	0	2	Modernization	Y	N	Y	N	N	Built by development; modernization will be needed	\$ 19,040,000
Northern Durham Pkwy	US 70 E	Sherron Rd	0	2	Modernization	Y	N	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	N		\$ 32,607,400
Patriot Dr Extension	S Miami Blvd	Page Rd	0	2	New Location	Y	Y	N	N	Y		\$ 18,320,400
Roxboro Rd (501 N)	Duke St	Goodwin Rd	4	4	Modernization	Y	Y	Y	N	N		\$ 20,403,600
Roxboro St	Cornwallis Rd	MLK Pkwy	0	4	New Location	N	Y	N	N	Y	Durham deleted from Vision; environmental concerns	\$ 16,888,200
Sherron Rd	S Mineral Springs Rd	Stallings Rd	2	4	Widening	N	N	N	N	N		\$ 35,004,200
Southwest Durham Dr	US 15-501 Business	Mt Moriah Rd	0	4	New Location	Y	Y	N	N	Y		\$ 5,133,800
Southwest Durham Dr	NC 54	I-40	0	2	New Location	N	N	N	N	N		\$ 17,362,800
Southwest Durham Dr	Sawyer Dr	Old Chapel Hill Rd	2	4	Widening	N	N	N	N	N		\$ 7,604,800
US 15-501 (boulevard conversion)	US 15-501 Bypass	I-40	6	6	Boulevard	Y	N	Y	N	N		\$ -
US 15-501 (expressway conversion)	US 15-501 Bypass	I-40	6	6	Expressway	N	Y	N	N	N		\$ 195,183,000
US 15-501 Bypass	MLK Parkway	I-85	4	6	Widening	N	N	N	N	N		\$ 113,027,600

2050 MTP - Preferred Option
Highways

MPO Board 10/13/2021 Item 10

Project	From	To	Existing Lanes	Proposed Lanes	Improvement	Vision	Traditional	Modernization	Bus Advantage	Grid	Comments	Estimated Cost
US 70 (freeway conversion)	Lynn Rd	S Miami Blvd	4	6	Freeway	N	Y	N	N	N		\$ 87,780,000
US 70 (freeway conversion)	S Miami Blvd	MPO Boundary	4	6	Freeway	N	Y	N	N	N		\$ 95,340,000
US 70 (freeway conversion)	S Miami Blvd	MPO Boundary	4	4	Modernization	Y	N	Y	N	N	Durham changed to Modernization	\$ -
US 70 (freeway conversion)	Lynn Rd	S Miami Blvd	4	4	Modernization	Y	N	Y	N	N	Durham changed to Modernization	\$ -
Wake Forest Hwy (NC 98)	Nichols Farm Dr	Wake County Line	2	4	Widening	N	N	N	N	N		\$ 67,863,600
Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	0	2	New Location	Y	Y	N	N	Y		\$ 3,793,000
Orange County												
Eno Mountain Rd realignment	Mayo St	Eno Mountain Rd	2	2	New Location	Y	Y	N	N	Y		\$ 5,800,000
Eubanks Rd	Millhouse Rd	Rex Rd/Kousa trail	2	4	Widening	N	N	N	N	N		\$ 1,086,400
Fordham Blvd (US 15-501)	NC 54	NC 86 (S Columbia St)	4	4	Modernization	Y	Y	Y	N	N		\$ 39,600,000
Fordham Blvd (US 15-501)	I-40	Ephesus Ch Rd	4	4	Modernization	Y	Y	Y	N	N		\$ 46,586,400
Fordham Blvd (US 15-501)	NC 54	Ephesus Ch Rd	4	4	Modernization	Y	Y	Y	N	N		\$ 49,481,600
Freeland Memorial Extension	S Churton St	New Collector Rd	0	2	New Location	Y	Y	N	N	Y		\$ 4,484,200
Homestead Rd	Rogers Rd	NC 86	2	2	Modernization	Y	Y	Y	N	N		\$ 9,597,000
Homestead Rd	Old NC 86	Rogers Rd	2	2	Modernization	Y	Y	Y	N	N		\$ 14,327,600
I-40	Durham County line	NC 86	4	6	Widening	Y	Y	N	N	N	First four years of STIP	\$ 68,851,000
I-40	NC 86	I-85	4	6	Widening	Y	Y	N	N	N	First four years of STIP	\$ 107,290,000
I-85	Orange Grove Rd	Sparger Rd	4	6	Widening	Y	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	Y	N	N	Y		\$ 6,169,800
Legion Rd Ext	Legion Rd	Fordham Blvd	0	2	New Location	Y	Y	N	N	Y		\$ 2,100,000
Marriott Way	Friday Center Dr	Barbree Chapel Rd	0	2	New Location	Y	Y	N	N	Y		\$ 954,800
Mt Carmel Ch Rd	US 15-501	Bennett Rd	2	2	Modernization	Y	Y	Y	N	N		\$ 2,795,800
NC 54	Old Fayetteville Rd	Orange Grove Road	2	2	Modernization	Y	Y	Y	N	N		\$ 50,040,000
NC 54	Fordham Blvd (US 15-501)	Barbee Chapel Rd	6	6	Modernization	Y	Y	Y	N	N		\$ 59,234,000
NC 86	Old NC 10	US 70 Business	2	4	Widening	Y	N	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	N	Orange County added to Vision	\$ 21,300,000
New Collector Rd	Orange Grove Rd Ext	Becketts Ridge Rd	0	2	New Location	Y	Y	N	N	Y		\$ 10,124,800
New Hope Commons Dr Extension	Eastowne Dr	New Hope Commons Dr	0	2	New Location	Y	Y	N	N	Y		\$ 6,423,200
Orange Grove Connector	Orange Grove Rd	NC 86	0	2	New Location	Y	Y	N	N	Y		\$ 7,418,600
Purefoy Rd Ext	Sandberg Ln	Weaver Dairy Rd	0	2	New Location	Y	Y	N	N	Y		\$ 5,287,800
S Churton St	Eno River in Hillsborough	I-40	2	4	Widening	Y	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	Y	N	N	Y		\$ 5,922,000

2050 MTP -- Preferred Option
Intersections/Interchanges

MPO Board 10/13/2021 Item 10

Intersection/Interchange	From	To	Improvement	Vision	Traditonal	Comments
I-40/NC 54	I-40	NC 54	Interchange Upgrade	Y	Y	Staff added to Vision: safety improvement
Fordham Blvd/Raleigh Rd	US 15-501	NC 54	Interchange Upgrade	N	Y	
US 70/Miami Blvd/Sherron Rd	US 70	Miami Blvd.	New Interchange	N	Y	
US 15-501/Garrett Rd Interchange	US 15-501	Garrett Rd	New Interchange	Y	Y	First four years of STIP
Fordham Blvd/S Columbia St	US 15-501/NC 54	S Columbia St	Interchange Upgrade	N	Y	
I-85/S Churton St	I-85	S Churton St	Interchange Upgrade	Y	Y	Orange County added to Vision
I-85/NC 86	I-85	NC 86	Interchange Upgrade	Y	Y	Orange County added to Vision
NC 54/Farrington Rd	NC 54	Farrington Rd	New Grade Separation	Y	Y	Staff added to Vision: safety improvement
Fordham Blvd/Manning Dr (Intersection or Interchange)	US 15-501	Manning Dr	New Intersection or Interchange	N	Y	
NC 54/Falconbridge Rd/Southwest Durham Dr	NC 54	Falconbridge Rd/Southwest Durham Dr	New Interchange	N	Y	
US 15-501/Mt Moriah Rd	US 15-501	Mt Moriah Rd	New Grade Separation	N	Y	
US 70/Lynn Rd Ext	US 70	Lynn Rd Ext	New Interchange	N	Y	
US 70/Angier Av	US 70	Angier Av	New Interchange	N	Y	
US 15-501/Southwest Durham Dr	US 15-501	Southwest Durham Dr	New Interchange	N	Y	
US 15-501/New collector road	US 15-501	New collector road	New Grade Separation	N	Y	
US 70/Northern Durham Parkway	US 70	Northern Durham Parkway	New Interchange	Y	Y	Include in Vision. Part of CAMPO US 70 project