



DCHC MPO Board Meeting Agenda

Wednesday, April 10, 2019

9:00 AM

Committee Room 2nd Floor
Durham City Hall 101 City Hall Plaza
Durham, NC 27701

1. Roll Call**2. Ethics Reminder**

It is the duty of every Board member to avoid conflicts of interest. Does any Board member have any known conflict of interest with respect to any matters coming before the Board today? If so, please identify the conflict and refrain from any participation in the particular matter involved.

Per state law, all MPO Board members and alternates are required to file a Statement of Economic Interest and a Real Estate Disclosure form (these have been incorporated into the same form for electronic filers for 2019) by April 16, 2019. The forms can be found on the web site of the North Carolina State Ethics Commission at https://ethics.ncsbe.gov/sei/blankForm.aspx?type=MPO_RPO.

3. Adjustments to the Agenda**4. Public Comments****5. Directives to Staff**[19-100](#)

Attachments: [2019-04-10 \(19-100\) MPO Board Directives to Staff.pdf](#)

CONSENT AGENDA**6. March 13, 2019 Board Meeting Minutes**[19-133](#)

A copy of the March 13, 2019 Board meeting minutes is enclosed.

Board Action: Approve the minutes of the March 13, 2019 Board Meeting

Attachments: [2019-04-10 \(19-133\) 3.13.19 MPO Board Meeting Minutes_LPA2.pdf](#)

ACTION ITEMS

7. **Resolution to Discontinue Durham-Orange Light Rail Transit (D-O LRT) (15 minutes)** [19-137](#)

Aaron Cain, LPA Staff

On March 27, 2019, the GoTriangle Board of Directors recommended to the partners of D-O LRT, which includes Durham and Orange counties, as well as the DCHC MPO, to discontinue planning and engineering for the D-O LRT. On April 2, 2019, the Orange Board of County Commissioners agreed with that recommendation. The Durham Board of County Commissioners is expected to take a similar action at its April 8, 2019 meeting.

As a partner to the Durham and Orange County Transit Plans, the DCHC MPO is also required to take action on the recommendation. Attached is a resolution that concurs with the discontinuing of work on D-O LRT, and also directs staff to work with the North Carolina Department of Transportation (NCDOT) to remove D-O LRT from the Draft FY2020-2029 State Transportation Improvement Program (STIP) and reallocate those funds per the State Transportation Investments (STI) law.

Board Action: Adopt the resolution discontinuing work on D-O LRT.

Attachments: [2019-04-10 \(19-137\) Resolution to Discontinue D-O LRT.pdf](#)

8. **NC Moves 2050 (15 minutes)** [19-130](#)

Kerry Morrow, NCDOT

The N.C. Department of Transportation is conducting an update to its long-range transportation plan to guide North Carolina's future transportation policies and investments. NC Moves 2050 is a plan that will provide a 30-year transportation blueprint for the state. The plan is focused on creating a more responsive, diverse and inclusive transportation system for keeping people and freight moving safely and efficiently.

To develop the plan, NCDOT is conducting a two-year study that involves examining all aspects of North Carolina's transportation system, collecting information about its performance and anticipated challenges in the future, and engaging the public to capture thoughts about the state's biggest future challenges. This information will inform research into the drivers and opportunities that will potentially shape how the state's transportation system operates in the future. This research will aid in developing several potential alternative futures for the year 2050, while considering regional and statewide goals and challenges. The study includes an implementation plan that aligns future needs with infrastructure recommendations and transportation policies.

Board Action: Receive the report from NCDOT.

9. Upgrades to DCHC MPO TIP Database (15 minutes)[19-131](#)**Caitlyn Meyer, Gannett Fleming/Geodecisions****Durmus Cesur, LPA Staff****Aaron Cain, LPA Staff**

DCHC MPO staff have been working with Gannett Fleming/Geodecisions over the past year to update and improve the MPO's web-based TIP database. The first phase of improvements have been implemented and a demonstration of the upgraded features will be provided.

Board Action: Receive the report on the TIP database upgrades.

10. NC 54 West Corridor Study - Phase Two Update (10 minutes)[18-179](#)**Don Bryson, VHB****Aaron Cain, LPA Staff**

The initial phase of the NC 54 West Corridor Study, a partnership between DCHC MPO, BGMPO, TARPO, and Division 7, was an in-depth review of the 20+ mile stretch of NC 54 between Old Fayetteville Road in Carrboro and I-85 in Graham. This roadway currently supports about 6,000 to 15,000 vehicles per day, and is expected to see increases in the future due to residential growth in Alamance County and the major employment centers in the Chapel Hill/Carrboro area.

The study recommends a phased widening and intersection improvements of NC 54 between Graham and Carrboro to improve safety and address current and future congestion. While the results of this study received positive reviews from many of the participating jurisdictions, there are concerns from at least one DCHC jurisdiction that the study did not fully develop multimodal options, account for the use of alternate commuting routes, and address the impact of a widening of NC 54 on local roads outside the corridor.

Therefore, DCHC MPO has initiated phase two of the study, which will:

- Confirm population and employment forecasts;
- Perform additional analysis to determine if transit and other improvements not on NC 54 will reduce demand;
- Assess impacts of widening on local roads;
- Assess potential for transit alternatives on NC 54; and
- Conduct additional public outreach.

Phase 2 of the study is expected to be completed this summer.

Board Action: This item is for informational purposes only, no action is required at this time.

11. Triangle Regional Freight Plan (10 minutes)[19-128](#)**Andy Henry, LPA Staff**

The MPO Board released the Triangle Regional Freight Plan in September 2018 and conducted a public hearing in October 2018. Some members of the MPO Board believed there were some deficiencies in the Freight Plan in that it did not adequately address the sharing of the North Carolina Railroad (NCR) rail corridor by freight and passenger rail and did not address resiliency. In addition, the City of Durham wanted to make a few changes to the Strategic Freight Corridor (SFC). The attached presentation identifies how the updated Freight Plan and related efforts address these issues. The updated Plan contains language that addresses the sharing of the NCR corridor, and it is noted that this issue is also being addressed through joint planning efforts by the NCR, Norfolk Southern, North Carolina Department of Transportation (NCDOT), and GoTriangle. Resiliency is identified in the goals and objectives, and discussed in some other sections of the Plan. Staff worked with the City of Durham to make changes to the SFC.

Approval of the Freight Plan means that the MPO will consider including the Plan's recommendations in the MPO's long-range transportation plans and policies. Local government might want to consider some of the recommendations for their plans, programs and policies. Also, the Strategic Freight Corridor (SFC) section of the Plan is important for NCDOT to define and position projects suitable for freight specific funding.

TC Action: Recommended addition of NCR corridor language and recommended that the Board approve the Triangle Regional Freight Plan.

Board Action: Provide any desired changes to the Triangle Regional Freight Plan, and approve the Triangle Regional Freight Plan.

Attachments: [2019-04-10 \(19-128\) FreightPlanPresentation.pdf](#)

12. Safe Routes to School Resolution (5 Minutes)[19-135](#)**Dale McKeel, MPO Staff**

The N.C. Department of Transportation (NCDOT) has set aside \$1.5 million of Transportation Alternative Program funds for Safe Routes to School programming that can be used by communities to develop creative programs that educate children and parents about safely walking and bicycling to school, and has opened a call for applications. In the DCHC MPO region, the City of Durham and the Triangle J Council of Governments have prepared and submitted Safe Routes to School funding applications. A resolution endorsing the applications is attached.

TC Action: Recommended that the MPO Board adopt the resolution.

Board Action: Adopt the resolution endorsing the Safe Routes to School applications submitted by the City of Durham and the Triangle J Council of Governments

Attachments: [2019-04-10 \(19-135\) Safe Routes to Schools Resolution.pdf](#)

13. Landscaping and Lighting of Roundabouts[19-134](#)**Aaron Cain, LPA Staff**

At its December 12, 2018 meeting, the DCHC MPO Board directed staff to investigate policies and procedures regarding the maintenance of landscaping and lighting for roundabouts. Based on feedback from all three Divisions in the DCHC MPO jurisdiction, staff has drafted a memo outlining those policies.

Board Action: Receive the report and provide direction to staff.

Attachments: [2019-04-10 \(19-134\) Landscaping and Lighting of Roundabouts.pdf](#)

14. Amendment #11 to the FY2018-2027 TIP (5 minutes)[19-124](#)**Aaron Cain, LPA Staff**

Amendment #11 to the FY2018-2027 TIP consists of two projects in Durham that were released for a 21-day public comment period due to the addition of more than \$1M in each project. They are:

- EB-5703, LaSalle Street Sidewalks
- EB-5715, Duke Street Sidewalks

The closing date for public comments is March 27, 2019.

Also included in the amendment are several projects from NCDOT, including a number of new statewide projects from the Public Transit Division. One request that NCDOT made was to move CMAQ funding for C-5183B, Alston Avenue Sidewalks, from FY19 to FY20. Staff recommends not including that project in the amendment pending further discussions with NCDOT and City of Durham staff regarding the funding of that particular project.

The summary sheet, full report, and resolution are attached.

TC Action: Recommended that the Board approve Amendment #11 to the FY2018-2027 TIP as shown, except for C-5183B.

Board Action: Approve Amendment #11 to the FY2018-2027 TIP, except for C-5183B, as recommended by the TC.

Attachments:[2019-04-10 \(19-124\) TIP Amendment #11 Summary Sheet.pdf](#)[2019-04-10 \(19-124\) TIP Amendment #11 Full Report.pdf](#)[2019-04-10 \(19-124\) TIP Amendment #11 Resolution.pdf](#)**REPORTS:****15. Report from the Board Chair**[19-101](#)**Damon Seils, Board Chair**

Board Action: Receive the report from the Board Chair

16. Report from the Technical Committee Chair[19-102](#)**Nishith Trivedi, TC Chair**

Board Action: Receive the report from the TC Chair.

17. Report from LPA Staff [19-103](#)

Felix Nwoko, LPA Manager

Board Action: Receive the report from LPA Staff.

Attachments: [2019-04-10 \(19-103\) LPA staff report.pdf](#)

18. NCDOT Report [19-104](#)

Joey Hopkins (David Keilson/Richard Hancock), Division 5 - NCDOT

Mike Mills (Pat Wilson/Ed Lewis), Division 7 - NCDOT

Brandon Jones (Bryan Kluchar, Jen Britt), Division 8 - NCDOT

Julie Bogle, Transportation Planning Branch - NCDOT

John Grant, Traffic Operations - NCDOT

Board Action: Receive the reports from NCDOT.

Attachments: [2019-04-10 \(19-104\) NCDOT Progress Report.pdf](#)

INFORMATIONAL ITEMS**19. Recent News Articles and Updates** [19-105](#)

Attachments: [2019-04-10 \(19-105\) news_articles.pdf](#)

Adjourn

Next meeting: May 8, 9 a.m., Committee Room

**Dates of Upcoming Transportation-Related Meetings:
NCAMPO 2019 Conference April 24-26, Charlotte**

MPO Board Directives to Staff
12/01/15 – Present (Complete/Pending/In Progress)

Meeting Date	Directive	Status
12/9/2015	Quarterly updates on D-O LRT project.	<u>On-going:</u> GoTriangle will provide quarterly updates to MPO Board.
2/15/2016	Draft Letter of Support for D-O LRT project to advance to Engineering Phase for MPO Board Chair signature	<u>Complete:</u> 2/18/2016.
4/13/2016	Research and consider renaming DCHC MPO an acronym that would be easier remember and simple to say.	<u>Complete.</u> 6/8/2016. DCHC MPO staff and the Technical Committee researched and provided a recommendation to the MPO Board.
4/13/2016	Provide the MPO Board with a breakdown of funding for highway program and non-highway program in the MPO TIP.	<u>Complete.</u> DCHC MPO staff created a summary report and distributed it during May 11, 2016 Board meeting.
5/11/2016	Schedule presentation from NCDOT Division and City Public Works regarding flooding on Trenton Road.	<u>Complete.</u> DCHC MPO staff arranged to have an update at the June 8, 2016 Board meeting.
5/11/2016	Prepare a presentation on the breakdown of funding for highway program and non-highway program in the MPO TIP.	<u>Complete.</u> DCHC MPO staff presented the summary report at the June 8, 2016 Board meeting.
6/8/2016	Update the DCHC MPO's tagline on the MPO website to provide information to the public that explains the MPO does regional transportation planning for the western Triangle area.	<u>Underway.</u> DCHC MPO staff is still working on updating the tagline on the MPO website.
6/8/2016	Conduct background study on toll roads and how they are used and affect municipalities like DCHC MPO.	<u>Complete.</u> Consultants provided updates at joint MPO Board meeting on October 31, 2018
12/14/2016	Draft letter to NCDOT regarding citizen request for "Bicycles May Use Full Lane" signs on Old NC 86 north of Carrboro, and to reiterate interest in providing bike lanes or wider shoulders to accommodate bicyclists.	<u>Complete.</u> DCHC MPO staff sent letter to NCDOT on January 30, 2017; response received March 15, 2017.
1/11/2017	Draft letter to NCDOT requesting that issues of equity for low-income users be incorporated into planning for managed lanes on I-40 and NC-147.	<u>Complete.</u> Draft completed January 29, 2017.

Meeting Date	Directive	Status
4-28-17	Determine the number of distance signs on freeways within the MPO's jurisdiction. Investigate the options for increasing the number of signs with NCDOT, particularly on and around the East End Connector at its completion.	<u>Complete.</u> MPO staff has found seven distance signs on freeways within the MPO's jurisdiction: four on I-85, one on NC-147, one on US 15-501, and one on I-85/40 in western Orange County. MPO staff has followed up with NCDOT about the opportunity for additional signs along I-40 in Durham and/or Orange counties.
4-28-17	Work with Division 7 to amend the signage plan for the East End Connector to include signs warning motorists about construction before the I-85/40 split.	<u>Complete.</u> MPO staff has contacted Division 7 regarding this request. Once project is completed, signage plan will be finalized.
5-10-17	Have someone from NCDOT present to the MPO Board on synchronized/super streets.	<u>Complete.</u> Jim Dunlop of NCDOT's Congestion Management Division presented at the August 2017 MPO Board meeting.
9-13-17	Request for staff to give a presentation on the STI framework, focusing on what provisions are directly by federal legislation, by state legislation, and those that are department policy. Invite new Deputy Secretary Julie White to meet and discuss NCDOT policy regarding prioritization with the Board.	<u>Complete.</u> LPA staff presented at the November 8, 2017 Board meeting. Deputy Secretary Julie White presented at the March 14, 2018 Board meeting.
2-14-18	Work with local governments and partner agencies to identify additional funding streams for transit projects not being submitted through the SPOT 5.0 process. Report back on progress.	<u>Complete.</u> Chapel Hill Transit staff provided an update in February 2019. LPA staff will participate in ongoing discussions led by Chapel Hill Transit.
4-11-18	Request for staff to arrange a presentation on Managed Motorways to inform new Board members of the concept and provide an update on efforts to incorporate these projects in the Triangle region.	<u>Complete.</u> Will Letchworth from WSP made a presentation on Managed Motorways at the May 9, 2018 MPO Board meeting.
8-12-18	Request for staff to develop a strategy to ensure that CMAQ and TAP-DA funds are assigned to projects that can obligate the funds before the federal rescission deadline of September 30, 2019.	<u>Complete.</u> The MPO Board approved reprogramming of CMAQ and TAP-DA funds at its October meeting.
10-10-18	Request for Division 5 to provide staff to present an update on the US 70 improvement project.	<u>Complete.</u> Elmo Vance of NCDOT, Drew Joyner of AECOM, and Mark Pierce of RKK will present at the December Board meeting.

Meeting Date	Directive	Status
11-14-18	Delay adoption of the NC 54 West Corridor Study in order to address concerns raised by the Board.	<u>Complete.</u> An update on Phase 2 of the NC 54 West Corridor study will be presented to the Board in April 2019.
12-12-18	Work with NCDOT and MPO Technical Committee to address policies and procedures for maintenance of roundabouts.	<u>Underway.</u> LPA staff is coordinating with various divisions and local staff to determine current policies and procedures. Staff will present its findings in April 2019.
1-16-19	Present a resolution to the MPO Board regarding community concerns of proposed redesign of the I-40/NC 86 interchange.	<u>Complete.</u> LPA staff will bring a resolution to the Board for its consideration in February 2019.
2-27-19	Provide an update on the East Durham Siding and Grade Separation Project.	<u>Underway.</u> NCDOT Rail Division staff will provide an update in May 2019.

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION BOARD**13 March 2019****MINUTES OF MEETING**

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board met on March 13, 2019, at 1:00 p.m. in the Committee Room, located on the second floor of Durham City Hall. The following people were in attendance:

Wendy Jacobs (MPO Board Vice Chair)	Durham County
Ellen Reckhow (Member)	GoTriangle
Michael Parker (Member)	Town of Chapel Hill
Karen Howard (Member)	Chatham County
Renee Price (Member)	Orange County
Jenn Weaver (Member)	Town of Hillsboro
Vernetta Alston (Member)	City of Durham
Charlie Reece (Member)	City of Durham
Steve Schewel (Alternate)	City of Durham
Heidi Carter (Alternate)	Durham County
Lydia Lavelle (Alternate)	Town of Carrboro
Pam Hemminger (Alternate)	Town of Chapel Hill
Penny Rich (Alternate)	Orange County
Joey Hopkins	NCDOT, Division 5
Patrick Wilson	NCDOT, Division 7
Bryan Kluchar	NCDOT, Division 8
Mike Stanley	NCDOT, Division of Planning
Jahmal Puller	NCDOT
Scott Whiteman	Durham County
Nishith Trivedi	Orange County
Corey Lives	Town of Chapel Hill
Tina Moon	Town of Carrboro
Zach Hallock	Town of Carrboro
John Hodges-Copple	Triangle J Council of Governments
Patrick McDonough	GoTriangle
Geoff Green	GoTriangle
Felix Nwoko	DCHC MPO
Meg Scully	DCHC MPO
Andy Henry	DCHC MPO
Aaron Cain	DCHC MPO
Brian Rhodes	DCHC MPO
Maureen Devlin	DCHC MPO
Robert Jahn	DCHC MPO
Dale McKeel	City of Durham/DCHC MPO

Heidi Perry	Resident
Natalie Griffith	Regional Transportation Alliance
Ed Harrison	NC Sierra Club
Katheryn Volleur	NCDOT
Lori Klein	Quest
Julie White	NCDOT
James Trogon	NCDOT

Quorum Count: 8 of 10 Voting Members

Vice Chair Wendy Jacobs called the meeting to order at 1:00 p.m. A roll call was performed.

The Voting Members and Alternate Voting Members of the DCHC MPO Board were identified and are indicated above. Vice Chair Wendy Jacobs reminded everyone to sign-in using the sign-in sheet that was being circulated.

Vice Chair Wendy Jacobs stated that both Chair Damon Seils and Renee Price made requests for excused absences. Jenn Weaver made a motion to excuse Chair Damon Seils and Renee Price from the MPO Board Meeting. Lydia Lavelle seconded the motion. The motion passed unanimously. [Renee Price later arrived at the MPO Board meeting during the public comment period.]

PRELIMINARIES:

2. Ethics Reminder

Vice Chair Wendy Jacobs read the Ethics Reminder and asked if there were any known conflicts of interest with respect to matters coming before the MPO Board and requested that if there were any identified during the meeting for them to be announced. There were no known conflicts identified by the MPO Board members.

Vice Chair Wendy Jacobs stated that, by April 16, 2019, each Board Member and Alternate must fill out the Statement of Economic Interest and Real Estate Disclosure for 2019. Vice Chair Wendy Jacobs stated that the forms can be located on the North Carolina State Ethics Commission website.

3. Adjustments to the Agenda

There were no adjustments to the agenda.

4. Public Comments

Heidi Perry requested that North Carolina Department of Transportation (NCDOT) allow 'Bikes May Use Full Lane' signs on county roads, while highlighting an instance of a driver driving dangerously close to a bicyclist in Orange County. Heidi Perry also cited a 2016 North Carolina State law that states a driver must allow for four feet of distance between his/her motor vehicle and a bicyclist when passing.

5. Directives to Staff

The Directives to Staff were included in the agenda packet for review. Vice Chair Wendy Jacobs and Aaron Cain discussed ongoing meetings with the North Carolina Rail Division and a planned visit by the Rail Division to a future MPO Board meeting.

CONSENT AGENDA:

6. February 27, 2019 MPO Board Meeting Minutes

Vice Chair Wendy Jacobs stated the February 27, 2019 MPO Board Meeting Minutes should be corrected on line 105 to read "Renee Price," instead of "Renee Parker."

Renee Price made a motion to approve the minutes of the February 27, 2019, MPO Board meeting as amended. Ellen Reckhow seconded the motion. The motion passed unanimously.

ACTION ITEMS:

7. Remarks and Discussion with Secretary of Transportation James H. Trogdon, III **James H. Trogdon, III, North Carolina Secretary of Transportation** **Wendy Jacobs, MPO Board Vice Chair** **Felix Nwoko, LPA Staff**

Vice Chair Wendy Jacobs welcomed Secretary James Trogdon III to the MPO Board Meeting. Secretary Trogdon stated his first priority is to improve program delivery throughout North Carolina. Secretary Trogdon stated that his second priority is to improve safety. Secretary Trogdon continued

102 that he plans to work with the General Assembly to introduce safety corridors to pilot different
103 safety initiatives. Secretary Trogdon stated his third priority is to improve mobility and ameliorate
104 congestion. Secretary Trogdon stated that this his plan is not to have a 'one size fits all' approach to
105 each of the 14 Transportation Divisions throughout North Carolina, and to improve mobility projects
106 that people need, want, and will use.

107 Secretary Trogdon stated that his fourth priority is to improve the appearance and conditions
108 of North Carolina transportation facilities. Secretary Trogdon stated that overgrown vegetation and
109 an abundance of litter threaten safety and a flourishing tourism industry. Secretary Trogdon stated
110 that his fifth priority focuses on sustainable revenue and innovative financing tools. Secretary
111 Trogdon explained that the NC First Commission would bring together economists, financial experts,
112 local government officials, and business leaders in order to create a plan to pay for transportation
113 investments and future technologies. Secretary Trogdon noted that such technologies, such as
114 drones, have increased in popularity over the past few years, and air management system plans will
115 be necessary.

116 Secretary Trogdon stated that his sixth priority is to become better partners with businesses
117 to develop the human resources necessary to sustain North Carolina's economy. Secretary Trogdon
118 added that the engineering and contracting communities, as well as the transit service providers and
119 municipalities, will need to work together in order to recruit incoming talent to solve future issues.

120 Secretary Trogdon stated that his last priority is to better communicate internally and
121 externally. Secretary Trogdon continued that he plans to increase community engagement on
122 transportation issues by implementing new technologies to reach the social media accounts of
123 drivers, and equipping new bridge construction with fiber optic capabilities. Secretary Trogdon
124 continued that North Carolina had been selected for a federal grant that would widen I-95 from
125 Virginia to South Carolina and extend broadband capabilities in eastern North Carolina. Secretary

126 Trogdon stated that Julie White has procured two autonomous people-movers and is searching for
127 locations in which to test them. Secretary Trogdon discussed the Strategic Transportation
128 Investments (STI), and how he is a proponent for a statewide travel demand model. Secretary
129 Trogdon also stated that the results of the NC First Commission are ongoing and will help to
130 determine how growth will be supported in the state.

131 Secretary Trogdon and Vice Chair Wendy Jacobs discussed their support for the Durham-
132 Orange Light Rail (D-O LRT) project. Secretary Trogdon also stated that he is recommitting to fully
133 implement the Complete Streets policy that has already been developed. Pam Hemminger stated
134 that the ability to fund sidewalks would be an important part of the Complete Streets program.

135 Ellen Reckhow discussed the importance of bicycle and pedestrian (bike/ped) paths along
136 future projects, such as NC 54 and NC 98. Secretary Trogdon stated that there are legislative
137 restrictions concerning constructing standalone greenway facilities. Ellen Reckhow stated there was
138 a plan sent to NCDOT proposing that the funding used for bicycle lanes on the road could be spent
139 on multiuse paths instead. Ellen Reckhow stated that, in reference to reducing greenhouse gases by
140 40% by 2025, in Massachusetts there are solar collectors along the Massachusetts Pike Highway in
141 the right-of-way. Secretary Trogdon responded that, in regard to Governor Roy Cooper's order to
142 grow electric vehicle usage, he is researching many different options for electric car charging
143 stations.

144 Penny Rich asked about the implication of adding additional roads to alleviate traffic
145 congestion and how it relates to the NC First Commission, which plans to reduce the use of cars over
146 time. Secretary Trogdon responded that growth in transportation will be focused in areas that will
147 interact with multimodal transit areas of opportunity.

148 Michael Parker asked about long-term planning for transit infrastructure. Michael Parker also
149 asked about changing funding formulas so they are more beneficial to transit. Secretary Trogdon

150 responded that the funding formulas are able to be changed in the General Assembly. Secretary
151 Trogdon added that he is working with other transportation experts to research the concept of a
152 fixed guideway in order to support transit investment. Secretary Trogdon also stated that it is
153 important to integrate planning resources to solve transportation problems, which involves a
154 combination of transit and highway options.

155 Jenn Weaver asked about the growing traffic in the relatively small Town of Hillsborough and
156 how to best manage traffic. Jenn Weaver also mentioned that the local match requirement is a
157 barrier for traffic improvement. Secretary Trogdon responded that it is important to work to support
158 projects at the local government level and work with local agencies.

159 Lydia Lavelle reiterated the request of Heidi Perry to introduce appropriate bike signage to
160 county roads, and stated that Orange County would be willing to partner with the NCDOT to pilot
161 new programs.

162 Pam Hemminger stated that the Superstreet program, in respect to 15-501, is often not
163 appropriate for areas with many bicyclists and pedestrians, for example at the Friday Center of the
164 University of North Carolina. Pam Hemminger requested further conversations about Superstreets.
165 Secretary Trogdon stated that smaller alternative options are available instead of Superstreets, and
166 that he is open to further discussions.

167 Renee Price asked about rural access to bicycle and pedestrian facilities. Secretary Trogdon
168 responded that NCDOT has inventoried bike/ped facilities and is in the process of developing a
169 statewide plan for greater connectivity. Renee Price also asked about representation on the NC First
170 Commission Board. Secretary Trogdon stated that members of the Board have not yet been finalized.

171 Ellen Reckhow requested additional support from the NCDOT in negotiating with the North
172 Carolina Railroad for more right-of-way access for the future Durham-Raleigh Commuter Rail Transit
173 (CRT) project.

Renee Price asked how the Volkswagen settlement money will be used. Secretary Trogon stated that the funding is being administered by the Division of Environmental Quality, and areas of focus include electric vehicle charging stations and conversion of bus fleets to electric powered buses.

Vice Chair Wendy Jacobs stated that it is important to focus attention of the residents to their transportation choices and how it impacts the environment, housing, community, and taxes. Vice Chair Wendy Jacobs continued that it is necessary to recognize that future technologies may not be equitable for all DCHC MPO residents. Vice Chair Wendy Jacobs committed to working with the NCDOT on piloting and supporting future projects that will benefit residents. Vice Chair Wendy Jacobs and Aaron Cain discussed that DCHC MPO and Capital Area Municipal Planning Organization (CAMPO) have met several times in order to work collaboratively and introduce a set of shared legislative goals. Vice Chair Wendy Jacobs recommended that bike/ped projects in the draft 2020-2029 State Transportation Improvement Program (STIP) be programmed with the right-of-way in the first five years in order to obtain federal funding. Vice Chair Wendy Jacobs also mentioned issues related to the NCDOT Cost Estimator.

REPORTS:

11. Report from the MPO Board Chair

Damon Seils, Board Chair

There was no report from the MPO Board.

12. Report from the Technical Committee Chair

Nish Trivedi, TC Chair

There was no report from the Technical Committee.

13. Report from LPA Staff

Felix Nwoko, Andy Henry, LPA Staff

Aaron Cain stated that the special MPO Board Meeting will no longer occur.

14. NCDOT Report

David Keilson, NCDOT Division 5, stated that he had no additional comments to the report.

Pat Wilson, NCDOT Division 7, stated that he had no additional comments to the report.

Bryan Kluchar, Division 8, stated that he had no additional comments to the report.

There was no further report from Julie Bogle, Transportation Planning Branch.

There was no report from NCDOT Traffic Operations.

INFORMATIONAL ITEMS:

17. Recent News, Articles, and Updates

Recent News, Articles and Updates are located in the agenda packet.

Aaron Cain added that the public meeting for the east Durham siding and grade separation project will be from 5-7 p.m. at the Hamner Center at Research Triangle Park (RTP).

ADJOURNMENT:

Vice Chair Wendy Jacobs entertained a motion to adjourn. Michael Parker made a motion to adjourn. Charlie Reece seconded the motion. The motion passed unanimously.

There being no further business before the DCHC MPO Board, the meeting was adjourned at 11: 21 a.m.

**RESOLUTION FOR THE DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING
ORGANIZATION TO DISCONTINUE THE DURHAM-ORANGE LIGHT TRAIL TRANSIT (D-O LRT)
PROJECT**

A motion was made by _____ and seconded by _____
for adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO) Board is the duly recognized transportation decision-making body for the DCHC MPO, as required by 23 CFR Part 134; and

WHEREAS, the DCHC MPO 2045 Metropolitan Transportation Plan (MTP) and the FY 2018-2027 Transportation Improvement Program (TIP) meet the planning requirements of 23 CFR Part 134; and

WHEREAS, the DCHC MPO 2045 MTP and the FY 2018-2027 TIP include the Durham-Orange Light Rail Transit (D-O LRT) project; and

WHEREAS, the D-O LRT project was to be the backbone of a major, regional transit system throughout the DCHC MPO jurisdiction; and

WHEREAS, there were many partners that supported the D-O LRT project, including state institutions of higher learning, the North Carolina Department of Transportation, the Capital Area Metropolitan Transportation Organization (CAMPO), Durham and Orange counties, and the City of Durham and Town of Chapel Hill, to name just a few; and

WHEREAS, the D-O LRT project complemented the land-use goals of both the City of Durham and the Town of Chapel Hill, and their efforts to develop sustainable, walkable communities that encourage walking, bicycling, and transit in lieu of travel in single-occupancy vehicles;

WHEREAS, due to the emergence of a number of obstacles, the Board of Trustees of the Research Triangle Regional Public Transportation Authority ("GoTriangle"), which is the project sponsor for the D-O LRT project, voted unanimously to recommend on March 27, 2019, that the cost-share partners discontinue planning and design of the D-O LRT project; and

WHEREAS, the Orange County Board of Commissioners resolved to discontinue funding for the D-O LRT project on April 2, 2019; and

WHEREAS, the Durham County Board of Commissioners resolved to discontinue funding for the D-O LRT project on April 8, 2019; and

WHEREAS, notwithstanding these decisions, the DCHC MPO remains committed to supporting safe, reliable, and affordable multimodal transportation options, which includes regional transit, that support the community goals of appropriate land use, affordable housing, job creation, and environmental stewardship throughout the Triangle.

BE IT THEREFORE RESOLVED that, on April 10, 2019, the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization discontinues the D-O LRT project; and

BE IT FURTHER RESOLVED that the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board directs staff to take the necessary actions to remove the D-O LRT project (TE-5205) from the draft FY 2020-2029 STIP.

Damon Seils, MPO Board Chair

Durham County, North Carolina

I certify that Damon Seils personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: April 10, 2019

Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2020

Regional Freight Plan

MPO Board – April 10, 2019

www.dchcmpo.org

Today's Objective

- ▶ Review
- ▶ Address identified issues
- ▶ Approve final Triangle Regional Freight Plan

A quick review

- ▶ First multimodal freight plan for Triangle Region
- ▶ Joint effort by DCHC MPO, CAMPO and NCDOT
- ▶ Use of Freight Plan
Freight Plan recommendations considered for inclusions in long-range transportation plans and local land use plans.

A quick review

(continued)

- ▶ FAST Act requires Regional Freight Stakeholders Advisory Council (RFSAC)
- ▶ Strategic Freight Corridor (SFC) important for NCDOT to define and position projects suitable for freight specific funding
- ▶ MPO released draft Freight Plan for public comment in September 2019 and conducted a public hearing in October 2019

Staff availability and changes to MPO Board meeting in early 2019 delayed bringing this plan back to the Board.

A quick review

(continued)

Principal Components of Freight Plan

- ▶ Identifies Strategic Freight Corridor (SFC)
- ▶ Recommends 24 roadway projects, and shows if the project is in the MTP or TIP
- ▶ Recommends development policy and programs

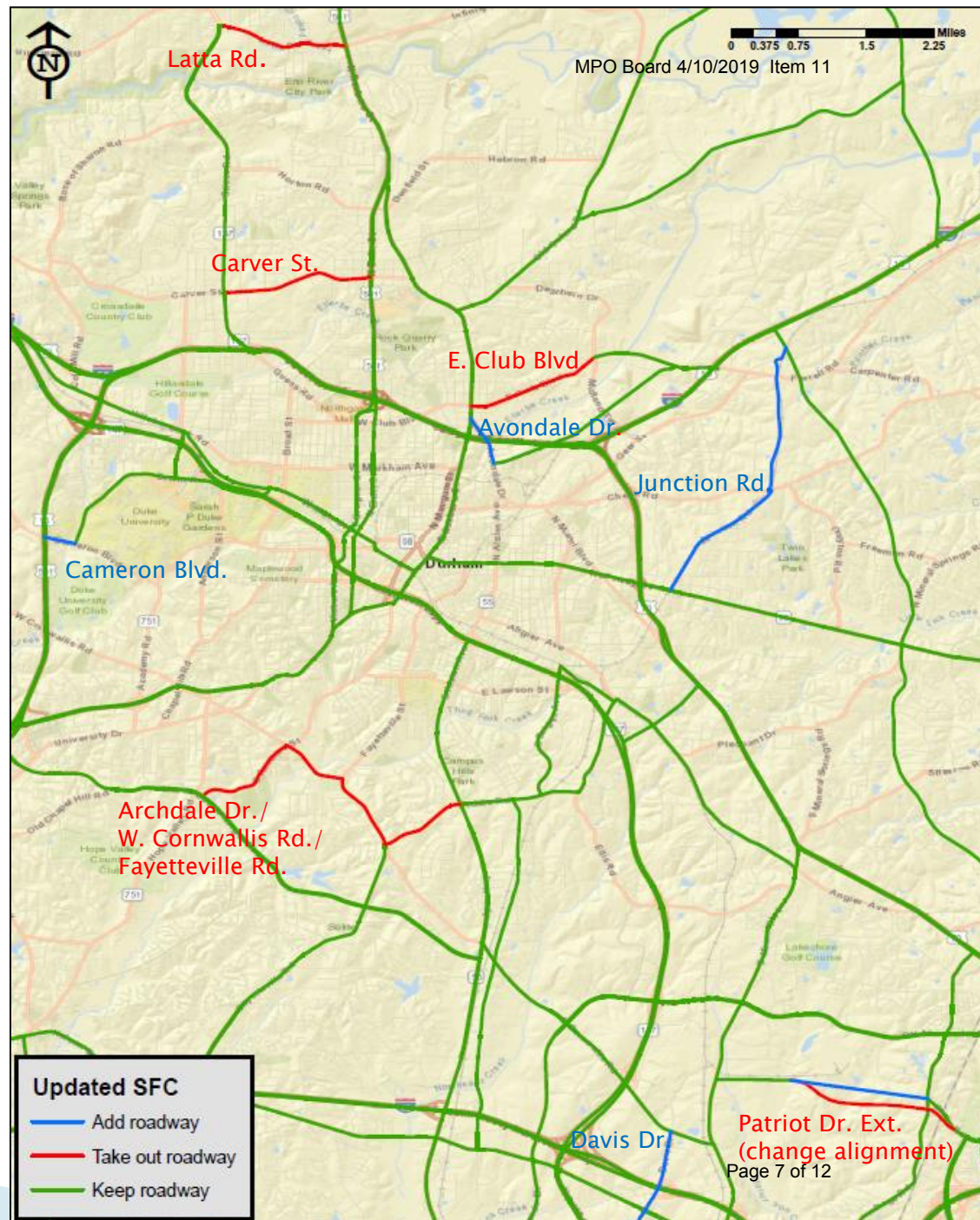
Strategic Freight Corridor

- ▶ SFC has recommended design elements to serve freight traffic
- ▶ City of Durham identified several changes
- ▶ Requested deletion of a few roads from SFC that they believe are inappropriate for freight traffic design (mostly because of dominant residential design)
- ▶ Requested addition of a few roads to logically complete a network.

Strategic Freight Corridor

(continued)

Deletions to SFC in **red**
Additions to SFC in **blue**



NCRR Rail Corridor

- ▶ Board member believed Freight Plan lacked specificity on how to plan for non-freight uses in NCRR rail corridor
- ▶ Completely addressing multimodal issues in mainline rail corridor was not in scope of freight plan

NCRR Rail Corridor

(continued)

Addressed in the Freight Plan...

Added to Recommendations section of Report (page 273)

Freight investments along the NCRR should clearly demonstrate how they accommodate the NCRR's 4-track footprint, that the investments are the most cost-effective use of taxpayer money for freight and passenger rail service in adopted NCDOT and MPO Plans, and briefly address future investments that would likely need to be made for adopted NCDOT and MPO plans to be implemented.

Added to Recommendations in Executive Summary (page ES-8)

... freight improvements accommodate NCRR 4-track footprint and be most cost-effective investment for freight and passenger rail service in adopted NCDOT and MPO plans.

NCRR Rail Corridor

(continued)

Addressed outside of Freight Plan

- ▶ 2008 Capacity Study
(Greensboro–Goldsboro)
- ▶ 2010 Ridership Study
(Greensboro–Goldsboro)
- ▶ 2015 Capacity Study with GoTriangle
(Infrastructure and costs to add commuter rail from Mebane to Selma)
- ▶ 2016 NCRR Future Tracks Infrastructure Planning Study
(Determined the number and probable location of future tracks in NCRR corridor from Charlotte to Morehead City)
- ▶ Current effort to refine details of the multimodal use of the corridor
- ▶ Durham–Wake Commuter Rail Major Investment Study (underway)

Resiliency

- ▶ Board member concerned that the issue of resiliency (e.g., weather events, catastrophic spills) not addressed.
- ▶ Focus groups did not identify resiliency as an issue and not specified in scope of freight plan

However...

Identified in Goals

- ▶ Goal – “Manage congestion and system reliability”
Summary – reduce freight system vulnerability to service disruptions due to natural events
- ▶ Goal – “Promote multimodal and affordable travel choices” – Summary – promote system redundancy to support resiliency

**** Discussion ****

**RESOLUTION TO ENDORSE APPLICATIONS TO THE NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION (NCDOT) FOR SAFE ROUTES TO
SCHOOL PROGRAM FUNDING**

April 10, 2019

A motion was made by Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO) Board Member _____ and seconded by DCHC MPO Board Member _____ for the approval of the following resolution and upon being put to a vote, was duly adopted.

WHEREAS, the N.C. Department of Transportation (NCDOT) has set aside \$1.5 million of Transportation Alternative Program funds for Safe Routes to School programming that can be used by communities to develop creative programs that educate children and parents about safely walking and bicycling to school; and

WHEREAS, NCDOT has opened a call for applications to fund collaborative programs that work to reduce the number of bicycle and pedestrian injuries and fatalities, and promote safety through educational programming, encouragement and enforcement; and

WHEREAS, in the DCHC MPO region the City of Durham and the Triangle J Council of Governments have prepared and submitted Safe Routes to School funding applications.

NOW THEREFORE, BE IT RESOLVED that the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board hereby endorses the applications submitted by the City of Durham and the Triangle J Council of Governments, provided here on this, the 10th day of April, 2019.

Damon Seils, MPO Board Chair

Durham County, North Carolina

I certify that Damon Seils personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: April 10, 2019

Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2020



Durham – Chapel Hill – Carrboro Metropolitan Planning Organization

Member Organizations: Town of Carrboro, Town of Chapel Hill, Chatham County, City of Durham, Durham County, Town of Hillsborough, NC Department of Transportation, Orange County, GoTriangle

April 10, 2019

To: DCHC MPO Board
From: Aaron Cain, MPO Staff
Re: Landscaping and Lighting of Roundabouts

On December 12, 2018, the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO) Board directed staff to investigate policies and procedures regarding the maintenance of landscaping and lighting for roundabouts. The details are slightly different in each North Carolina Department of Transportation (NCDOT) Division; however, there are some basic similarities between how each Division handles these issues.

Landscaping

For a project that is in the STIP and has not completed the construction process, one percent of the cost of the project is used to calculate the landscaping budget, which is in addition to the overall cost of the project should the local government want landscaping. NCDOT will then arrange for contractors to install the landscaping and manage the installment. After a one-year warranty period responsibility for maintenance of the landscaping then falls to the local government.

If a project is not a standard STIP project (for example, is funded through safety funds), there is no landscaping budget and NCDOT will not participate in the planting of landscaping materials. Any landscaping to be installed, and the maintenance thereof, is the responsibility of the local government.

Lighting

Per its policy, NCDOT only constructs and maintains lighting on freeways. Since there are no roundabouts on freeways, NCDOT would not install or maintain lighting for any roundabouts. Lighting for surface streets is the responsibility of local governments. Since municipalities are more familiar with the installation and maintenance of roadway lighting than are counties, roundabouts that are not in municipal jurisdictions do not tend to have lighting. However, if lack of lighting is a demonstrated safety issue at a non-municipal roundabout, the Division can consider installing lighting. This would only be done on a case-by-case basis, and would be dependent on demonstrated need and funding availability.



Durham - Chapel Hill - Carrboro
Metropolitan Planning Organization Board
April 10, 2019

FY 2018-2027 TIP Amendment #11 Summary Sheet

See full report for additional information on each project.

- **EB-5703 LaSalle Street Sidewalks:** Add TAP funding for a new ROW phase in FY19 and add TAP funding for Construction in FY20.
- **EB-5715 North Duke Street Sidewalks:** Add TAP funding for a new ROW phase in FY19 and add TAP funding for Construction in FY20.
- **I-5994 I-40 Bridge Rehabilitation:** Combine letting of I-5994 with I-5993. Delay Construction from FY19 to FY20.
- **I-5995 I-40 Pavement Rehabilitation:** Delay construction from FY19 to FY21.
- **TA-6665 NCDOT-PTD 5311 Capital:** New statewide project adding funds FY19 through FY27.
- **TA-6666 NCDOT-PTD5339 Bus and Facilities:** New statewide project adding funds FY19 through FY27.
- **TC-5004 NCDOT-PTD 5311 ADTAP:** New statewide project adding funds FY19 through FY27.
- **TK-4900Z NCDOT-PTD 5311 State Admin and 5311F State Admin:** New statewide project adding funds FY19 through FY27.
- **TK-4902 NCDOT-PTD 5311 State Admin ADTAP:** Add funds FY19 through FY27.
- **TK-6181 NCDOT-PTD 5311 Admin:** New statewide project adding funds FY19 through FY27.
- **TN-6125 NCDOT-PTD 5317 New Freedom:** New statewide project adding funds FY19 through FY27.
- **TO-6155 NCDOT-PTD 5311 Operating:** New statewide project adding funds FY19 through FY27.
- **TQ-6954 NCDOT-PTD 5310 Operating:** New statewide project adding funds FY19 through FY27.
- **TQ-9038 NCDOT-PTD 5310 Capital:** New statewide project adding funds FY19 through FY27.
- **TS-4900Z NCDOT-PTD Statewide RTAP:** New statewide project adding funds FY19 through FY27.

- **TS-7001 NCDOT-PTD 5329 State Safety and Oversight:** New statewide project adding funds FY19 through FY27.
- **TV-4903 NCDOT-PTD 5310 State Admin:** New statewide project adding funds FY19 through FY27.
- **W-5705DIV Highway Safety Improvements, Division 5:** Add ROW and Construction in FY19.
- **W-5705REG Highway Safety Improvements, Division 5:** Add ROW and Construction in FY19.
- **W-5705SW Highway Safety Improvements, Division 5:** Add ROW and Construction in FY19.
- **W-5707DIV Highway Safety Improvements, Division 7:** Add ROW and Construction in FY19.
- **W-5707REG Highway Safety Improvements, Division 7:** Add ROW and Construction in FY19.
- **W-5707SW Highway Safety Improvements, Division 7:** Add ROW and Construction in FY19.
- **W-5708DIV Highway Safety Improvements, Division 8:** Add ROW and Construction in FY19.
- **W-5708REG Highway Safety Improvements, Division 8:** Add ROW and Construction in FY19.
- **W-5708SW Highway Safety Improvements, Division 8:** Add ROW and Construction in FY19.

TIP Amendment Request - Revise An Existing Project

Amendment Request Details



TIP Amendment
(change in funding
greater than \$1M)



TIP Modification
(change in funding
less than \$1M)



There are previous
amendments to
this project.

Date: 2-7-19

Amendment Requested By: City of Durham

Existing Project Details

Project Name: LaSalle Street Sidewalks

STIP/TIP #: EB-5703

Jurisdiction/Agency: City of Durham

WBS or Local ID or Federal Aid #:

MUNIS #:

Existing Project Schedule and Funding: Enter the most current project information.

Use the MPO database: bitly.com/mpoprojects

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
Prior Year	PE/Design	TAP	\$69,000	\$0	\$17,000	\$86,000
2019	Construction	TAP	\$469,000	\$0	\$116,000	\$585,000
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$538,000	\$0	\$133,000	\$671,000

Total Project
Cost

Proposed Project Schedule and Funding: Enter the full proposed project schedule & funding.

In many cases, the current project information from the above table will be re-entered at the top of the Proposed Table to represent FULL project information.

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
Prior Year	PE/Design	TAP	\$161,152	\$0	\$40,288	\$201,440
2019	ROW	TAP	\$411,889	\$0	\$102,972	\$514,861
2020	Construction	TAP	\$1,152,179	\$0	\$288,045	\$1,440,224
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$1,725,220	\$0	\$431,305	\$2,156,525

Total Project
Cost

TIP Amendment Request - Revise An Existing Project

Project Details - Continued

Please provide previous STIP/TIP # or new STIP/TIP # (if applicable):

If this amendment has already been reflected in the NCDOT STIP,
please provide date of STIP action and attach supporting information:

Project Description/Details/Termini/etc. to be amended (if applicable):

Please provide additional details or explanation related to this amendment request such as explanation for schedule delays, project cost changes, or other supporting information (if applicable). For example, why is this amendment being requested?

Add ROW phase to project in FY19. Move Construction to FY20 to align with current schedule.

Please email completed form and any supporting documents to DCHC MPO TIP manager. Please follow-up with TIP manager to confirm receipt of form.

TIP Amendment Request - Revise An Existing Project

Amendment Request Details



TIP Amendment
(change in funding
greater than \$1M)



TIP Modification
(change in funding
less than \$1M)



There are previous
amendments to
this project.

Date: 2-7-19

Amendment Requested By: City of Durham

Existing Project Details

Project Name: North Duke Street Sidewalks

STIP/TIP #: EB-5715

Jurisdiction/Agency: City of Durham

WBS or Local ID or Federal Aid #:

MUNIS #:

Existing Project Schedule and Funding: Enter the most current project information.

Use the MPO database: bitly.com/mpoprojects

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
Prior Year	PE/Design	TAP	\$150,000	\$0	\$37,000	\$187,000
2019	Construction	TAP	\$1,015,120	\$0	\$254,280	\$1,269,400
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$1,165,120	\$0	\$291,280	\$1,456,400

Total Project
Cost

Proposed Project Schedule and Funding: Enter the full proposed project schedule & funding.

In many cases, the current project information from the above table will be re-entered at the top of the Proposed Table to represent FULL project information.

FY	Phase/Work	Funding Source	Federal Share	State Share	Local Share	Total
Prior Year	PE/Design	TAP	\$349,359	\$0	\$87,340	\$436,699
2019	ROW	TAP	\$662,613	\$0	\$165,653	\$828,266
2020	Construction	TAP	\$2,143,990	\$0	\$535,998	\$2,679,988
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
			\$0	\$0	\$0	\$0
Funding Totals:			\$3,155,962	\$0	\$788,991	\$3,944,953

Total Project
Cost

TIP Amendment Request - Revise An Existing Project

Project Details - Continued

Please provide previous STIP/TIP # or new STIP/TIP # (if applicable):

If this amendment has already been reflected in the NCDOT STIP,
please provide date of STIP action and attach supporting information:

Project Description/Details/Termini/etc. to be amended (if applicable):

Please provide additional details or explanation related to this amendment request such as explanation for schedule delays, project cost changes, or other supporting information (if applicable). For example, why is this amendment being requested?

Add ROW phase to project in FY19. Move Construction to FY20 to align with current schedule.

Please email completed form and any supporting documents to DCHC MPO TIP manager. Please follow-up with TIP manager to confirm receipt of form.

**REVISIONS TO THE 2018-2027 STIP
HIGHWAY PROGRAM**

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

C-5179 ORANGE PROJ.CATEGORY EXEMPT	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION	SR 1750 (NORTH ESTES DRIVE), NC 86 (MARTIN LUTHER KING, JR. BOULEVARD) TO CASWELL DRIVE IN CHAPEL HILL. CONSTRUCT FIVE FOOT SIDEWALKS AND FIVE FOOT BIKE LANES. NC 86 (MARTIN LUTHER KING, JR. BOULEVARD) TO ELLIOTT ROAD IN CHAPEL HILL. CONSTRUCT TEN FOOT MULTIUSE PATH. <u>TO REFLECT CURRENT TOWN DELIVERY SCHEDULE. DELAY CONSTRUCTION FROM FY 18 TO FY 19 AND INCREASE FUNDING AT REQUEST OF MPO.</u>	CONSTRUCTION	FY 2019 -	\$2,362,000	(CMAQ)
				FY 2019 -	<u>\$591,000</u>	(L)
					\$2,953,000	
C-5183B DURHAM PROJ.CATEGORY EXEMPT	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION	SR 1945 (S. ALSTON AVE.), SR 1171 (RIDDLE RD.) TO CAPPS ST. <u>TO ALLOW ADDITIONAL TIME TO COMPLETE PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 19 TO FY 20, AT REQUEST OF THE DIVISION OFFICE.</u>	RIGHT-OF-WAY	FY 2019 -	\$79,000	(CMAQ)
				FY 2019 -	\$20,000	(L)
			CONSTRUCTION	FY 2020 -	\$565,000	(CMAQ)
				FY 2020 -	<u>\$141,000</u>	(L)
					\$805,000	
I-5994 DURHAM PROJ.CATEGORY STATEWIDE	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION	I-40, US 15 / US 501 TO EAST OF NC 147. BRIDGE REHABILITATION - MULTIPLE STRUCTURES. <u>COMBINE LETTING OF I-5994 BRIDGE WORK WITH I- 5993 ROADWAY WORK, DELAY CONSTRUCTION FROM FY 19 TO FY 20, AT REQUEST OF THE DIVISION OFFICE.</u>	GARVEE CONSTR	FY 2020 -	\$429,000	(NHPIM)
				FY 2021 -	\$429,000	(NHPIM)
				FY 2022 -	\$429,000	(NHPIM)
				FY 2023 -	\$429,000	(NHPIM)
				FY 2024 -	\$429,000	(NHPIM)
				FY 2025 -	\$429,000	(NHPIM)
				FY 2026 -	\$429,000	(NHPIM)
				FY 2027 -	\$429,000	(NHPIM)
				FY 2028 -	\$429,000	(NHPIM)
				FY 2029 -	\$429,000	(NHPIM)
				POST YR-	\$2,145,000	(NHPIM)
			CONSTRUCTION	FY 2020 -	<u>\$1,667,000</u>	(S(M))
					\$8,102,000	

* INDICATES FEDERAL AMENDMENT

Thursday, March 7, 2019

**REVISIONS TO THE 2018-2027 STIP
HIGHWAY PROGRAM**

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

I-5995 DURHAM WAKE PROJ.CATEGORY STATEWIDE	- CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION - DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION	I-40, EAST OF NC 147 TO SR 3015 (AIRPORT BOULEVARD). PAVEMENT REHABILITATION. <u>TO ALLOW ADDITIONAL TIME FOR DESIGN, DELAY CONSTRUCTION FROM FY 19 TO FY 21, AT REQUEST OF THE DIVISION OFFICE.</u>	GARVEE CONSTR	FY 2021 -	\$343,000	(NHPIM)
				FY 2022 -	\$343,000	(NHPIM)
				FY 2023 -	\$343,000	(NHPIM)
				FY 2024 -	\$343,000	(NHPIM)
				FY 2025 -	\$343,000	(NHPIM)
				FY 2026 -	\$343,000	(NHPIM)
				FY 2027 -	\$343,000	(NHPIM)
				FY 2028 -	\$343,000	(NHPIM)
				FY 2029 -	\$343,000	(NHPIM)
				POST YR-	\$2,058,000	(NHPIM)
* W-5705DIV DURHAM FRANKLIN GRANVILLE PERSON VANCE WAKE WARREN PROJ.CATEGORY DIVISION	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION - CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION - KERR TAR RURAL PLANNING ORGANIZATION	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS LOCATIONS. <u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19 NOT PREVIOUSLY PROGRAMMED AT REQUEST OF TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2021 -	\$1,333,000	(S(M))
					\$6,478,000	
				RIGHT-OF-WAY	FY 2019 -	\$30,000 (HSIP)
				CONSTRUCTION	FY 2019 -	\$180,000 (HSIP)
						\$210,000

* INDICATES FEDERAL AMENDMENT

Thursday, March 7, 2019

REVISIONS TO THE 2018-2027 STIP
HIGHWAY PROGRAM

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* W-5705REG	- DURHAM-CHAPEL HILL-CARRBORO	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS	RIGHT-OF-WAY	FY 2019 -	\$30,000	(HSIP)
DURHAM	METROPOLITAN PLANNING ORGANIZATION	LOCATIONS.	CONSTRUCTION	FY 2019 -	\$180,000	(HSIP)
FRANKLIN	- CAPITAL AREA METROPOLITAN PLANNING	<u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u>			\$210,000	
GRANVILLE	ORGANIZATION	<u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u>				
PERSON	- KERR TAR RURAL PLANNING	<u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>				
VANCE	ORGANIZATION					
WAKE						
WARREN						
PROJ.CATEGORY						
REGIONAL						

* W-5705SW	- DURHAM-CHAPEL HILL-CARRBORO	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS	RIGHT-OF-WAY	FY 2019 -	\$40,000	(HSIP)
DURHAM	METROPOLITAN PLANNING ORGANIZATION	LOCATIONS.	CONSTRUCTION	FY 2019 -	\$240,000	(HSIP)
FRANKLIN	- CAPITAL AREA METROPOLITAN PLANNING	<u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u>			\$280,000	
GRANVILLE	ORGANIZATION	<u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u>				
PERSON	- KERR TAR RURAL PLANNING	<u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>				
VANCE	ORGANIZATION					
WAKE						
WARREN						
PROJ.CATEGORY						
STATEWIDE						

* INDICATES FEDERAL AMENDMENT

Thursday, March 7, 2019

**REVISIONS TO THE 2018-2027 STIP
HIGHWAY PROGRAM**

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* W-5707DIV ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM PROJ.CATEGORY DIVISION	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS LOCATIONS.	RIGHT-OF-WAY CONSTRUCTION	FY 2019 -	\$30,000	(HSIP)
	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION	<u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u> <u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u> <u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>		FY 2019 -	\$180,000	(HSIP)
	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION				\$210,000	
	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION					
	- TRIANGLE AREA RURAL PLANNING ORGANIZATION					
	- PIEDMONT TRIAD RURAL PLANNING ORGANIZATION					

* W-5707REG ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM PROJ.CATEGORY REGIONAL	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS LOCATIONS.	RIGHT-OF-WAY CONSTRUCTION	FY 2019 -	\$30,000	(HSIP)
	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION	<u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u> <u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u> <u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>		FY 2019 -	\$180,000	(HSIP)
	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION				\$210,000	
	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION					
	- TRIANGLE AREA RURAL PLANNING ORGANIZATION					
	- PIEDMONT TRIAD RURAL PLANNING ORGANIZATION					

* INDICATES FEDERAL AMENDMENT

Thursday, March 7, 2019

REVISIONS TO THE 2018-2027 STIP
HIGHWAY PROGRAM

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* W-5707SW ALAMANCE CASWELL GUILFORD ORANGE ROCKINGHAM PROJ.CATEGORY STATEWIDE	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION - HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION - DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION - BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION - TRIANGLE AREA RURAL PLANNING ORGANIZATION - PIEDMONT TRIAD RURAL PLANNING ORGANIZATION	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS LOCATIONS. <u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u> <u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u> <u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2019 - FY 2019 -	\$40,000 \$240,000 \$280,000	(HSIP) (HSIP)
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* W-5708DIV CHATHAM HOKE LEE MONTGOMERY MOORE RANDOLPH RICHMOND SCOTLAND PROJ.CATEGORY DIVISION	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION - HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION - PIEDMONT TRIAD RURAL PLANNING ORGANIZATION - TRIANGLE AREA RURAL PLANNING ORGANIZATION - LUMBER RIVER RURAL PLANNING ORGANIZATION	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS LOCATIONS. <u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u> <u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u> <u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2019 - FY 2019 -	\$30,000 \$180,000 \$210,000	(HSIP) (HSIP)
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* INDICATES FEDERAL AMENDMENT

Thursday, March 7, 2019

REVISIONS TO THE 2018-2027 STIP
HIGHWAY PROGRAM

DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* W-5708REG	- DURHAM-CHAPEL HILL-CARRBORO	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS	RIGHT-OF-WAY	FY 2019 -	\$30,000	(HSIP)
CHATHAM	METROPOLITAN PLANNING ORGANIZATION	LOCATIONS.	CONSTRUCTION	FY 2019 -	\$180,000	(HSIP)
HOKE	- HIGH POINT URBAN AREA METROPOLITAN	<u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u>			\$210,000	
LEE	PLANNING ORGANIZATION	<u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u>				
MONTGOMERY	- PIEDMONT TRIAD RURAL PLANNING	<u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>				
MOORE	ORGANIZATION					
RANDOLPH	- TRIANGLE AREA RURAL PLANNING					
RICHMOND	ORGANIZATION					
SCOTLAND	- LUMBER RIVER RURAL PLANNING					
PROJ.CATEGORY	ORGANIZATION					
REGIONAL						

* W-5708SW	- DURHAM-CHAPEL HILL-CARRBORO	VARIOUS, SAFETY IMPROVEMENTS AT VARIOUS	RIGHT-OF-WAY	FY 2019 -	\$40,000	(HSIP)
CHATHAM	METROPOLITAN PLANNING ORGANIZATION	LOCATIONS.	CONSTRUCTION	FY 2019 -	\$240,000	(HSIP)
HOKE	- HIGH POINT URBAN AREA METROPOLITAN	<u>ADD RIGHT-OF-WAY AND CONSTRUCTION IN FY 19</u>			\$280,000	
LEE	PLANNING ORGANIZATION	<u>NOT PREVIOUSLY PROGRAMMED AT REQUEST OF</u>				
MONTGOMERY	- PIEDMONT TRIAD RURAL PLANNING	<u>TRANSPORTATION, MOBILITY AND SAFETY DIVISION.</u>				
MOORE	ORGANIZATION					
RANDOLPH	- TRIANGLE AREA RURAL PLANNING					
RICHMOND	ORGANIZATION					
SCOTLAND	- LUMBER RIVER RURAL PLANNING					
PROJ.CATEGORY	ORGANIZATION					
STATEWIDE						

* INDICATES FEDERAL AMENDMENT

Thursday, March 7, 2019



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 7, 2019

Mr. Keith Melton
Director of Planning and Program Development
Federal Transit Administration
230 Peachtree St NW Suite 1400
Atlanta, Georgia 30303

Subject: REQUEST FEDERAL TRANSIT ADMINISTRATION (FTA) APPROVAL OF AMENDMENT NUMBER #15 OF THE NORTH CAROLINA 2018-2027 STATE TRANSPORTATION IMPROVEMENT PROGRAM (STIP)

The North Carolina Department of Transportation requests FTA approval to add the following projects to the 2018-2027 STIP. None of the STIP amendments in this letter reflect any change in the distribution of Governor's Apportionment Section 5307 funds.

LEGEND FOR THE TABLES:

- STIP#: identifying unique number for the project in the STIP
- FUND: Type of federal, state, and local fund source used to pay for the project. The federal types include 5307 (FUZ), 5316 (JARC), FNF (5317 New Freedom), Congestion Mitigation and Air Quality (CMAQ), FNU (5311), FEDP (5310 Elderly and Persons with Disabilities, and 5339 (FBUS).
- MATCH: Indicates the funding breakdown between federal (US), state (S), and local (L) funds
- FY 18-FY 27: This table shows the amount of funding to be programmed for each fiscal year. All funding amounts shown are in thousands (000's).

The following STIP amendments were approved at the March 7, 2019 BOT Meeting:

Additions to the Transit 2018-2027 STIP

STIP #	TRANSIT PARTNER	DESCRIPTION	MATCH	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)	FY26 (000)	FY27 (000)
TA-6672	Charlotte Area Transit System	Purchase 6 buses for University to Concord Mills bus route	State	T		300								
			Local	L		2700								

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
PUBLIC TRANSPORTATION DIVISION
1550 MAIL SERVICE CENTER
RALEIGH, NC 27699-1550

Telephone: (919) 707-4670
Fax: (919) 733-1391
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27601

STIP #	TRANSIT PARTNER	DESCRIPTION	MATCH	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)	FY26 (000)	FY27 (000)
TD-5264B	GoCary	Construction of Bus Operation and Maintenance Facility	State	T			700							
			Local	L			700							
			FED	5307			5600							
TP-5159	Charlotte Area Transit System	LYNX Silver Line TOD Planning in Cooperation with CATS, CRTPO and GCLMPO	PL	TOD		230	460	230						
			Local	L		57	115	57						
TA-6176	Charlotte Area Transit System	Purchase 45' Clean Diesel Motor Coaches for the North Corridor I-77 Service	FBUS	5339		5933								
			Local	L		1484								
TA-6626	Asheville Redefines Transit	ART buses and other routine Capital Items	FBUS	5339		300	151							
			Local	L		75	38							

Modifications

STIP #	TRANSIT PARTNER	DESCRIPTION	MATCH	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)	FY26 (000)	FY27 (000)
TA-4771	City of Greensboro	Clean Diesel Replacement Bus	CMAQ	CMAQ		955								
			Local	L		169								
TO-6154	Mountain Mobility Buncombe County	Buncombe County Mountain Mobility Transit Operating Assistance	FUZ	5307		90	239	250	250	250	262			
			Local	L		90	239	250	250	250	262			
TA-6690	Piedmont Authority for Regional Transit	Replacement Vehicles	FBUS	5339	43	54	43	43	43					
			Local	L	11	14	11	11	11					

STIP #	TRANSIT PARTNER	DESCRIPTION	MATCH	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)	FY26 (000)	FY27 (000)
TA-6701	Mountain Mobility Buncombe County	Buncombe County Mountain Mobility Transit Capital Replacement Vehicles	FUZ	5307			55	184	95		100			
			Local	L			14	46	24		26			
TO-6154	Mountain Mobility Buncombe County	Buncombe County Mountain Mobility Transit Operating Assistance	FUZ	5307		90	239	250	250	250	261			
			Local	L		90	239	250	250	250	262			
TD-5283	High Point Transit	Building Facility Renovations and upgrade to Para Transit Administration	State	T		338								
			Local	L		38								
TD-5284	Triangle Transit Authority	Transit Center Transfer Station Construction at UNC Hospital	FUZ	5307							288			
			State	T							36			
			Local	L							36			
TA-6665	NCDOT-PTD	5311 Capital	FNU	5311		14487	5468	5469	5470	5471	5490	5490	5491	5491
			Local	L		1445	684	684	684	685	687	687	687	687
			State	State		1444	684	684	684	685	687	687	687	687
TA-6666	NCDOT-PTD	5339 bus and facilities	FBUS	5339		7183	4448	4449	4450	5004	5005	5005	5005	5006
			State	State			556	557	557	625	626	626	626	626
			Local	L		1437	556	557	557	625	626	626	626	626
TC-5004	NCDOT-PTD	5311 ADTAP	ADTAP	5311		2116	1008	1008	1009	1009	1010	1010	1011	1011
			State	Local			126	126	127	127	127	127	127	127
			Local	L		424	115	115	127	127	127	127	127	127
TO-6155	NCDOT-PTD	5311 Operating and 5311 Operating F	FNU	5311		12770	12790	12810	12830	12850	12870	12890	12910	12930
			Local	L		6385	6395	6405	6415	6425	6435	6445	6455	6465

STIP #	TRANSIT PARTNER	DESCRIPTION	MATCH	FUND	FY18 (000)	FY19 (000)	FY20 (000)	FY21 (000)	FY22 (000)	FY23 (000)	FY24 (000)	FY25 (000)	FY26 (000)	FY27 (000)
TK-4900Z	NCDOT-PTD	5311 State Admin + 5311F State Admin	FNU	5311		2807	2820	2840	2860	2880	2900	2920	2940	2960
TK-4902	NCDOT-PTD	5311 State Admin ADTAP	ADTAP	5311		92	92	93	93	94	94	95	95	97
TK-6181	NCDOT-PTD	5311 Admin	FNU	5311		18171	14681	14681	14682	14682	14683	14683	14684	14684
			State	State			918	918	918	918	918	918	918	918
			Local	L		3635	2753	2753	2753	2753	2753	2753	2753	2753
TQ-6954	NCDOT-PTD	5310 Operating	FEPD	5310		1658	918	918	919	919	919	920	920	920
			Local	L		1658	918	918	919	919	919	920	920	920
TQ-9038	NCDOT-PTD	5310 Capital	FEPD	5310		3178	1998	1998	1999	1999	2000	2000	2000	2002
			State	State			250	250	250	250	250	250	250	251
			Local	L		636	250	250	250	250	250	250	250	251
TS-4900Z	NCDOT-PTD	Statewide RTAP	RTAP	5311		422	440	460	480	500	520	540	560	580
TV-4903	NCDOT-PTD	5310 State Admin	FEPD	5310		420	541	545	545	545	550	550	560	560
TN-6125	NCDOT-PTD	5317 New Freedom	FNP	5317		403	410	420	430	440	450	460	470	480
			Local	L		81	82	84	86	88	90	92	94	96
TS-7001	NCDOT-PTD	5329 State Safety and Oversight	FED	5329		430	343	344	344	345	345	345	346	346
			State	State		86	69	69	69	69	69	69	70	70
			Local	L		86	69	69	69	69	69	69	70	70

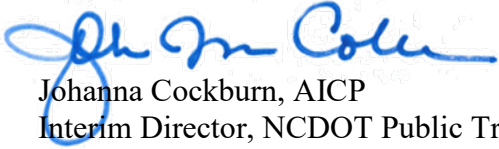
Item I-1A, (25) Projects, Total Federal and State funds \$383,632,000

Metropolitan Planning Organization	Transit Partners	Added to the STIP	Added to MTIP
Capital Area MPO	Go Cary	3/7/2019	3/20/2019
French Broad River MPO	Asheville Redefines Transit	3/7/2019	1/24/2019
Charlotte Regional Transportation Planning Organization	Charlotte Area Transit Systems	3/7/2019	2/13/2019

These additions and modifications were made according to requirements established in SAFETEA-LU, MAP-21 and FAST Act. The additions and modifications are consistent with the transit strategy in the fiscally constrained Long-Range Transportation Plans of the respective MPO's. Administration of the changes conforms to procedures delineated in the MPO public participation plans. The changes do not adversely impact air quality conformity determination currently in place and meets fiscal constraint requirements.

Please address any questions concerning this matter to Jason Wimmer, ajwimmer@ncdot.gov, 919-707-4686. Please endorse and return the request. Upon receipt, NCDOT will distribute copies of the endorsement to all the interested parties with a reminder that this document and the endorsement date below are the references needed to complete a TrAMS application.

Sincerely,



Date: March 7, 2018

Johanna Cockburn, AICP
Interim Director, NCDOT Public Transportation Division

Endorsement:

_____ Date _____
Keith Melton
Director of Planning and Program Development, Federal Transit Administration

**RESOLUTION TO MODIFY THE 2018-2027 TRANSPORTATION
IMPROVEMENT PROGRAM FOR THE DURHAM-CHAPEL HILL-CARRBORO
METROPOLITAN PLANNING AREA**

**AMENDMENT #11
April 10, 2019**

A motion was made by MPO Board Member _____ and seconded by MPO Board Member _____ for the adoption of the following resolution, and upon being put to a vote, was duly adopted.

WHEREAS, the Transportation Improvement Program (TIP) is a staged multiple year listing of all federally funded transportation projects scheduled for implementation within the Durham-Chapel Hill-Carrboro Metropolitan Planning Area which have been selected from a priority list of projects; and

WHEREAS, the document provides the mechanism for official endorsement of the program of projects by the MPO Board; and

WHEREAS, the inclusion of the TIP in the transportation planning process was first mandated by regulations issued jointly by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) and no project within the planning area will be approved for funding by these federal agencies unless it appears in the officially adopted TIP; and

WHEREAS, the procedures for developing the TIP have been modified in accordance with certain provisions of the MAP-21 Federal Transportation Act, Fixing America's Surface Transportation (FAST) Act, and guidance provided by the State; and

WHEREAS, projects listed in the TIP are also included in the State TIP (STIP) and balanced against anticipated revenues as identified in both the TIP and the STIP; and

WHEREAS, the North Carolina Department of Transportation and the MPO Board have determined it to be in the best interest of the Urban Area to amend the FY 2018-2027 Transportation Improvement Program as described in the attached sheets; and

WHEREAS, the United States Environmental Protection Agency Designated the DCHC MPO from nonattainment to attainment under the prior 1997 Ozone Standard on December 26, 2007; and

WHEREAS, the DCHC MPO certifies that this TIP amendment is consistent with the intent of the DCHC MPO 2040 Metropolitan Transportation Plan (MTP); and

WHEREAS, in accordance with 23 CFR 450.326 (d), the TIP shall include, to the maximum extent practicable, a description of the anticipated effect of the TIP toward achieving the performance targets identified in the metropolitan transportation plan, linking investment priorities to those performance targets; and

BE IT THEREFORE RESOLVED that the Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Board hereby approves Amendment #11 to the FY 2018-2027 Transportation Improvement Program of the Durham-Chapel Hill-Carrboro Urban Area, as approved by the Board on April 10, 2019, and as described in the “FY 2018-2027 TIP Amendment #11 Summary Sheet” on this, the 10th day of April, 2019.

Damon Seils, MPO Board Chair

Durham County, North Carolina

I certify that Damon Seils personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: April 10, 2019

Frederick Brian Rhodes, Notary Public
My commission expires: May 10, 2020

MEMORANDUM

To: DCHC MPO Board

From: DCHC MPO Lead Planning Agency

Date: April 10, 2019

Subject: **Lead Planning Agency (LPA) Synopsis of Staff Report**

This memorandum provides a summary status of tasks for major DCHC MPO projects in the Unified Planning Work Program (UPWP).

- Indicates that task is ongoing and not complete.
- ✓ Indicates that task is complete.

Major UPWP – Projects

Comprehensive Transportation Plan (CTP)

- ✓ Completed
- Farrington Road Amendment likely to be adopted – September 2018

2045 Metropolitan Transportation Plan (MTP)

- ✓ 2045 MTP amendment related to Air Quality Conformity Determination will be released for public comment– September 2018
- ✓ Adopt 2045 MTP Amendment #1 – November 2018

GIS Online (AGOL)/Data Management

- ✓ MPO Interactive GIS/Mapping – Continuous/On-going
- ✓ Development of public portals for MPO applications – Continuous/On-going
- ✓ Maintenance and updates – Continuous/On-going
- ✓ Development of open data – Continuous/On-going

MPO Website Update and Maintenance

- ✓ Post Launch Services – Continuous/On-going
- ✓ Interactive GIS – Continuous/On-going
- ✓ Facebook/Twitter management – Continuous/On-going
- ✓ Enhancement of Portals – Continuous/On-going

Triangle Regional Model Update

- ✓ Completed
- Work Commences on the Rolling Household Survey

Prioritization 6.0 - FY 2022-2031 TIP Development

- LPA Staff develops initial project list – March-April 2019
- TC reviews initial project list – May 2019

- Board reviews initial project list (including deletions of previously submitted projects) and authorizes release for public comment – June 2019
- SPOT On!ine opens for entering/amending projects – July 2019
- Board holds public hearing for project submittals – August 2019
- Board approves new projects to be submitted for SPOT-5 – September 2019
- MPO submits projects to NCDOT – September 2019
- LPA updates local ranking methodology – December 2019
- TCC makes recommendation on local ranking methodology – January 2020
- Board approves local ranking methodology – March 2020
- MPO applies local ranking methodology for Regional projects – April 2020
- Board releases MPO initial Regional points list for local input/public comments – May 2020
- LPA addresses public comments and makes draft recommendation on local points for Regional category – June 2020
- Approval of Regional Impact points – June-August 2020
- Submission of Regional Impact points to NCDOT – July-August 2020
- MPO applies local ranking methodology for Division projects – August 2020
- Board releases MPO initial Division points list for local input/public comments – September 2020
- LPA addresses public comments and makes draft recommendation on local points for Division category – October 2020
- Approval of Division Needs points – November 2020
- Submission of Division Needs points to NCDOT – November 2020
- Draft STIP Released – January 2021

Regional Freight Plan

- ✓ Consultant Selection/Contract Approval Complete
- ✓ Kick-Off Meeting – Conducted in July 2015
- ✓ Stakeholder outreach and engagement – October 2015
- ✓ Formation of the freight advisory committee – October 2015
- ✓ Data collection, analysis and assessment – November 2015
- ✓ Freight goals & objectives and performance measures – February 2016
- ✓ Analysis of freight existing conditions and trends – TBD
- ✓ Forecasts of future demands (2035 and 2045) – TBD
- ✓ Evaluation of future conditions – TBD
- ✓ Strategic freight corridors and zones – TBD
- ✓ Recommendation & implementation strategies – TBD
- ✓ Final report and presentation – September 2018
- ✓ Release formal report for public comment – September 2018
- ✓ Approve final report – November 2018

NC 54 West Corridor Study

- ✓ Select consultant – February 2017
- ✓ Project kick-off and initial public engagement – September 2017
- ✓ Inventory and Existing Conditions – November 2017
- ✓ Transportation analysis (and public engagement) – January 2018
- ✓ Conceptual designs and options (and public engagement) – May 2018
- ✓ Draft plan – September 2018
- ✓ Public input – October-November 2018
- Revisions and additional data collection – March-April 2019

- Public input – May 2019
- Final draft – June 2019

US 15-501 Corridor Study

- ✓ Funding approved by NCDOT
- ✓ Project Management Plan
- ✓ Public engagement plan
- ✓ Technical Kick-off meeting
- ✓ Development of corridor vision goals and performance measures
- ✓ Development of corridor profile
- ✓ Prepare summary of existing plans
- ✓ Prepare community profile report
- Develop and forecast travel profile/multi modal analysis
- ITS Screening
- Accessibility evaluation
- Evaluation of alternative strategies
- Implementation plan and final report
- Plan adoption
- SPOT submittal

Regional Intelligent Transportation System

- ✓ Project management plan
- Development of public involvement strategy and communication plan
- Conduct stakeholder workshops
- Analysis of existing conditions
- Assessment of need and gaps
- Review existing deployments and evaluate technologies
- Identification of ITS strategies
- Update Triangle Regional Architecture
- Develop Regional Architecture Use and maintenance
- Develop project prioritization methodology
- Prepare Regional ITS Deployment Plan and Recommendation

Regional Toll Study

- ✓ Prepare project management and coordination plan
- ✓ Project initiation
- ✓ Survey and questionnaire/education
- ✓ Data preparation /data collection/screening
- ✓ Review state of the practice
- ✓ Analysis of market characteristics
- ✓ Screening and presentation to MPO Boards at joint MPO Board Meeting – October 2018
- Tolling and managed lane strategies
- Recommendations
- Project prioritization

Project Development/NEPA

- US 70 Freeway Conversion
- NC 54 Widening

- NC 147 Interchange Reconstruction
- I-85
- I-40

Safety Performance Measures Target Setting

- ✓ Data mining and analysis
- ✓ Development of rolling averages and baseline
- ✓ Development of targets setting framework
- ✓ Estimates of achievements
- Forecast of data and measures

Upcoming Projects

- Mobility Report Card
- Congestion Management Process (CMP)
- State of Systems Report

Contract Number: C203394		Route: I-885, NC-147, NC-98 US-70	
Division: 5		County: Durham	
TIP Number: U-0071			
Length: 4.009 miles		Federal Aid Number:	
NCDOT Contact: Cameron D. Richards		NCDOT Contact No: (919)835-8200	
Location Description: EAST END CONNECTOR FROM NORTH OF NC-98 TO NC-147 (BUCK DEAN FREEWAY) IN DURHAM.			
Contractor Name: DRAGADOS USA INC			
Contract Amount: \$141,949,500.00		Cost Overrun/Underrun: 10.22%	
Work Began: 02/26/2015		Letting Date: 11/18/2014	
Original Completion Date: 05/10/2020		Revised Completion Date: 05/25/2020	
Latest Payment Thru: 03/22/2019		Scheduled Progress: 80.41%	
Latest Payment Date: 04/01/2019		Actual Progress: 77.09%	

Contract Number: C203492		Route: SR-2220	
Division: 5		County: Durham	
TIP Number: EB-4707B			
Length: 1.756 miles		Federal Aid Number: STPDA-0505(64)	
NCDOT Contact: James M. Nordan, PE		NCDOT Contact No: (919)220-4680	
Location Description: SR-2220 (OLD CHAPEL HILL ROAD) FROM SR-1113 (POPE ROAD) TO SR-1116 (GARRETT ROAD).			
Contractor Name: FSC II LLC DBA FRED SMITH COMPANY			
Contract Amount: \$7,295,544.75		Cost Overrun/Underrun: 8.82%	
Work Began: 06/26/2017		Letting Date: 05/16/2017	
Original Completion Date: 05/14/2019		Revised Completion Date:	
Latest Payment Thru: 02/28/2019		Scheduled Progress: 100%	
Latest Payment Date: 03/13/2019		Actual Progress: 87.86%	

Contract Number: C203567		Route: NC-55	
Division: 5		County: Durham	
TIP Number: U-3308			
Length: 1.134 miles		Federal Aid Number: STP-55(20)	
NCDOT Contact: James M. Nordan, PE		NCDOT Contact No: (919)220-4680	
Location Description: NC-55 (ALSTON AVE) FROM NC-147 (BUCK DEAN FREEWAY) TO NORTH OF US-70BUS/NC-98 (HOLLOWAY ST).			
Contractor Name: ZACHRY CONSTRUCTION CORPORATION			
Contract Amount: \$39,756,916.81		Cost Overrun/Underrun: 20.3%	
Work Began: 10/05/2016		Letting Date: 07/19/2016	
Original Completion Date: 03/30/2020		Revised Completion Date: 02/11/2021	
Latest Payment Thru: 03/15/2019		Scheduled Progress: 52%	
Latest Payment Date: 03/25/2019		Actual Progress: 51.08%	

Contract Number: C204167		Route: SR-1118, SR-1407, SR-1648 SR-1794, SR-1811, SR-1906 SR-1966, SR-1973, SR-2095	
Division: 5		County: Durham	
TIP Number:			
Length: 24.77 miles		Federal Aid Number: STATE FUNDED	
NCDOT Contact: James M. Nordan, PE		NCDOT Contact No: (919)220-4680	
Location Description: 51 SECTIONS OF SECONDARY ROADS.			
Contractor Name: CAROLINA SUNROCK LLC			
Contract Amount: \$4,355,108.47		Cost Overrun/Underrun: 0.38%	
Work Began: 08/01/2018		Letting Date: 05/15/2018	
Original Completion Date: 11/30/2019		Revised Completion Date:	
Latest Payment Thru: 12/31/2018		Scheduled Progress: 9%	
Latest Payment Date: 01/08/2019		Actual Progress: 10.59%	

Contract Number: C204168		Route: -	
Division: 5		County: Durham	
TIP Number:			
Length: 15.188 miles		Federal Aid Number: STATE FUNDED	
NCDOT Contact: Cameron D. Richards		NCDOT Contact No: (919)835-8200	
Location Description: 14 SECTIONS OF SECONDARY ROADS.			
Contractor Name: CAROLINA SUNROCK LLC			
Contract Amount: \$5,334,770.46		Cost Overrun/Underrun: 0.9%	
Work Began: 07/02/2018		Letting Date: 05/15/2018	
Original Completion Date: 11/30/2019		Revised Completion Date:	

Latest Payment Thru: 10/31/2018 Latest Payment Date: 11/07/2018		Scheduled Progress: 21% Actual Progress: 20.85%
Contract Number: C204256 Division: 5 TIP Number: Length: 15.89 miles NCDOT Contact: James M. Nordan, PE Location Description: 1 SECTION OF US-70, 1 SECTION OF NC-98, AND 3 SECTIONS OF SECONDARY ROADS. Contractor Name: CAROLINA SUNROCK LLC Contract Amount: \$0.00 Work Began: 03/15/2019 Original Completion Date: 11/30/2019 Latest Payment Thru: Latest Payment Date:		Route: -, NC-98, SR-1800 SR-1811, US-70 County: Durham Federal Aid Number: STATE FUNDED NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0% Letting Date: 10/16/2018 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%
Contract Number: C204270 Division: 5 TIP Number: U-5745 Length: 0.142 miles NCDOT Contact: James M. Nordan, PE Location Description: INTERSECTION IMPROVEMENTS (ROUNDAABOUT) AT NC-751 HOPE VALLEY ROAD AND SR-1183 UNIVERSITY DRIVE IN DURHAM. Contractor Name: CAROLINA SUNROCK LLC Contract Amount: \$2,271,302.32 Work Began: 02/28/2019 Original Completion Date: 05/01/2020 Latest Payment Thru: 03/07/2019 Latest Payment Date: 03/14/2019		Route: NC-751, SR-1183 County: Durham Federal Aid Number: NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0.54% Letting Date: 01/15/2019 Revised Completion Date: Scheduled Progress: 7.13% Actual Progress: 7.13%
Contract Number: C204294 Division: 5 TIP Number: R-5785C, R-5785D Length: 1 miles NCDOT Contact: James M. Nordan, PE Location Description: VARIOUS LOCATIONS. Contractor Name: BROWE CONSTRUCTION COMPANY Contract Amount: \$0.00 Work Began: 04/01/2019 Original Completion Date: 11/01/2019 Latest Payment Thru: Latest Payment Date:		Route: SR-1926 County: Durham Federal Aid Number: TAP-0505(051) NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 0% Letting Date: 02/19/2019 Revised Completion Date: Scheduled Progress: 0% Actual Progress: 0%
Contract Number: DE00228 Division: 5 TIP Number: I-5729 Length: 5.61 miles NCDOT Contact: James M. Nordan, PE Location Description: I-85 FROM US-15/501 TO EAST OF SR-1827 (MIDLAND TERRACE RD) IN DURHAM Contractor Name: INTERSTATE IMPROVEMENT INC Contract Amount: \$4,168,265.78 Work Began: 03/13/2018 Original Completion Date: 11/01/2018 Latest Payment Thru: 02/22/2019 Latest Payment Date: 03/01/2019		Route: I-85 County: Durham Federal Aid Number: NHPP-0085(013) NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 61.17% Letting Date: 10/11/2017 Revised Completion Date: Scheduled Progress: 100% Actual Progress: 86.36%
Contract Number: DE00253 Division: 5 TIP Number: W-5705K Length: 0 miles NCDOT Contact: James M. Nordan, PE Location Description: SR 1327 (GREGSON ST) AND LAMOND AVE Contractor Name: TRAFFIC CONTROL DEVICES INC Contract Amount: \$72,515.00 Work Began: 09/01/2018 Original Completion Date: 02/28/2019 Latest Payment Thru: 02/28/2019		Route: SR-1327 County: Durham Federal Aid Number: HSIP-1327(006) NCDOT Contact No: (919)220-4680 Cost Overrun/Underrun: 7.85% Letting Date: 07/25/2018 Revised Completion Date: Scheduled Progress: 100%

Latest Payment Date: 03/07/2019		Actual Progress: 51.79%	
Contract Number: DE00255		Route: US-501	
Division: 5		County: Durham	
TIP Number: W-5705C			
Length: 0 miles		Federal Aid Number: HSIP-0501(046)	
NCDOT Contact: James M. Nordan, PE		NCDOT Contact No: (919)220-4680	
Location Description: US 15-501 AT SR 1116 (GARRETT RD) US 15-501 BUS AT WESTGATE DR			
Contractor Name: ALS OF NORTH CAROLINA LLC			
Contract Amount: \$540,904.71		Cost Overrun/Underrun: 4.63%	
Work Began: 08/06/2018		Letting Date: 05/23/2018	
Original Completion Date: 12/21/2018		Revised Completion Date:	
Latest Payment Thru: 02/11/2019		Scheduled Progress: 100%	
Latest Payment Date: 02/14/2019		Actual Progress: 36.73%	

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17BP.5.R.116			Division POC Let (DPOC)	2/22/2023	Lisa Gilchrist			
17BP.5.R.117			Division POC Let (DPOC)	2/22/2023	Lisa Gilchrist			
17BP.5.R.83	BRIDGE 84 OVER CHUNKY PIE CREEK ON SR 1815		Division POC Let (DPOC)	4/22/2020	Lisa Gilchrist			
17BP.5.R.84			Division POC Let (DPOC)	1/26/2022	Lisa Gilchrist			
17BP.5.R.97	BRIDGE 89 OVER LICK CREEK ON SR 1902		Division POC Let (DPOC)	10/15/2019	Lisa Gilchrist			
47451.3.1	NC 98 (Holloway Street) - Traffic Signal at Adams Street and channelization at S. Woodcrest Street		On Call Contract (OCC)	7/15/2019	Stephen Davidson			Under construction
47709.3.1			Division POC Let (DPOC)	5/10/2019	Stephen Davidson			
B-5674	REPLACE BRIDGE 80 OVER SR 1308 IN DURHAM ON US 15-501 NORTHBOUND	9/16/2019	Raleigh Letting (LET)	12/15/2020	KEVIN FISCHER	\$110,000.00	\$2,209,000.00	
C-4928	SR 1317 (MORRENE ROAD) FROM NEAL ROAD TO SR 1320 (ERWIN ROAD) IN DURHAM. CONSTRUCT BIKE LANES AND SIDEWALKS.	2/26/2019	NON - DOT LET (LAP)	4/15/2020	RAYMOND JOSEPH HAYES	\$7,000.00	\$5,783,000.00	
C-5183B	SR 1945 (S ALSTON AVENUE) FROM SR 1171 (RIDDLE ROAD) TO CAPPS STREET. CONSTRUCT SIDEWALKS IN DURHAM		NON - DOT LET (LAP)	12/2/2019	RAYMOND JOSEPH HAYES	\$99,000.00	\$706,000.00	
C-5605E	CITY OF DURHAM BICYCLE LANE STRIPING: 8 MILE OF BIKE LANES.		NON - DOT LET (LAP)	9/30/2019	RAYMOND JOSEPH HAYES		\$504,000.00	
C-5605H	DOWNTOWN DURHAM WAYFINDING PROGRAM SIGNS/KIOSKS TO FACILITATE NAVIGATION AND PARKING.	6/28/2019	NON - DOT LET (LAP)	12/31/2019	RAYMOND JOSEPH HAYES		\$605,000.00	

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C-5605I	DURHAM NEIGHBORHOOD BIKE ROUTE:~7 MILES OF SIGNED AND MARKED NEIGHBORHOOD BIKE ROUTES IN CENTRAL DURHAM.		NON - DOT LET (LAP)	9/27/2019	RAYMOND JOSEPH HAYES		\$540,883.00	
EB-4707A	SR 1838 / SR 2220 (OLD DURHAM ROAD) FROM US 15 / US 501 IN ORANGE COUNTY TO SR 1113 (POPE ROAD) IN DURHAM COUNTY	8/20/2015	Division Design Raleigh Let (DDRL)	4/16/2019	BENJAMIN J. UPSHAW		\$4,900,000.00	Construction contract scheduled to advertise in April
EB-5703	DURHAM - LASALLE STREET FROM KANGAROO DRIVE TO SPRUNT AVENUE IN DURHAM. CONSTRUCT SIDEWALKS ON BOTH SIDES FROM KANGAROODRIVE TO US 70 BUSINESS (HILLSBOROUGH ROAD) AND ON ONE SIDEFROM HILLSBOROUGH ROAD TO SPRUNT AVENUE.		NON - DOT LET (LAP)	9/30/2020	RAYMOND JOSEPH HAYES		\$578,000.00	
EB-5704	DURHAM - RAYNOR STREET FROM NORTH MIAMI BOULEVARD TO NORTH HARDEE STREET		NON - DOT LET (LAP)	9/29/2019	RAYMOND JOSEPH HAYES			
EB-5708	NC 54 FROM NC 55 TO RESEARCH TRIANGLE PARK WESTERN LIMIT IN DURHAM CONSTRUCT SECTIONS OF SIDEWALK ON SOUTH SIDE		NON - DOT LET (LAP)	4/15/2020	RAYMOND JOSEPH HAYES		\$275,000.00	
EB-5715	US 501 BYPASS (NORTH DUKE STREET) FROM MURRAY AVENUE TO US 501 BUSINESS (NORTH ROXBORO ROAD) IN DURHAM CONSTRUCT SIDEWALK ON EAST SIDE TO FILL IN EXISTING GAPS		NON - DOT LET (LAP)	7/15/2020	RAYMOND JOSEPH HAYES		\$1,269,000.00	

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EB-5720	BRYANT BRIDGE NORTH/GOOSE CREEK WEST TRAIL, NC 55 TO DREW- GRANBY PARK IN DURHAM. CONSTRUCT SHARED-USE PAHT AND CONNECTING SIDEWALKS.	9/30/2020	NON - DOT LET (LAP)	9/30/2021	RAYMOND JOSEPH HAYES	\$14,000.00	\$4,432,000.00	
EB-5834	NC 157 / SR 1322 (GUESS RD.) FROM HILLCREST DRIVE TO SR 1407(WEST CARVER STREET) IN DURHAM. CONSTRUCT SIDEWALKS ON BOTH SIDES.	6/30/2021	NON - DOT LET (LAP)	9/20/2022	RAYMOND JOSEPH HAYES	\$204,000.00	\$589,000.00	
EB-5835	NC 55 (ALSTON AVE.) FROM SR 1171 (RIDDLE RD.) TO CECIL STREET IN DURHAM. CONSTRUCT SIDEWALK ON EAST SIDE TO FILL IN MISSING GAPS.	6/20/2022	NON - DOT LET (LAP)	9/20/2023	RAYMOND JOSEPH HAYES	\$50,000.00	\$525,000.00	
EB-5837	THIRD FORK CREEK TRAIL FROM SOUTHERN BOUNDARIES PARK TO AMERICAN TOBACCO TRAIL IN DURHAM. CONSTRUCT SHARED USE PATH AND SIDEWALKS, AND INSTALL BEACON AT SR 1158 (CORNWALLIS RD.) CROSSING.	6/30/2020	NON - DOT LET (LAP)	6/30/2021	RAYMOND JOSEPH HAYES	\$161,000.00	\$2,546,000.00	
EB-5904	DUKE BELT LINE TRAIL - PETTIGREW STREET TO AVONDALE STREET IN DURHAM, CONSTRUCT A MULTI-USE TRAIL ON FORMER RAIL CORRIDOR	9/4/2018	NON - DOT LET (LAP)	9/1/2020	RAYMOND JOSEPH HAYES	\$7,100,000.00	\$3,750,000.00	
I-5702B	I-40 FROM NC 147 (DURHAM FREEWAY/TRIANGLE EXPRESSWAY) IN DURHAM COUNTY TO SR 1728 (WADE AVENUE) IN WAKE COUNTY - COORDINATE WITH I-5506 AND I-5700	1/1/2030	Design Build Let (DBL)	1/1/2030	PAM R. WILLIAMS	\$82,480,000.00	\$670,140,000.00	

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I-5707	I-40 - FROM NC 55 (ALSTON AVENUE) TO NC 147 (DURHAM FREEWAY/TRIANGLE EXPRESSWAY) IN DURHAM	6/18/2019	Raleigh Letting (LET)	6/16/2020	PAM R. WILLIAMS	\$323,000.00	\$3,550,000.00	
I-5941	I-85 FROM ORANGE COUNTY LINE TO US 15 /US 501 IN DURHAM PAVEMENT REHABILITATION		Division Design Raleigh Let (DDRL)	12/19/2023	DOUGLAS R. MCNEAL		\$2,973,000.00	
I-5942	I-85 /US 15 FROM NORTH OF SR 1827 (MIDLAND TERRACE) IN DURHAM COUNTY TO NORTH OF NC 56 IN GRANVILLE COUNTY PAVEMENT REHABILITATION		Division Design Raleigh Let (DDRL)	12/19/2023	DOUGLAS R. MCNEAL		\$8,357,000.00	
I-5982	I-540 DURHAM & WAKE COUNTY FROM I-40 IN DURHAM TO I-495/US 64/US 264 IN KNIGHTDALE. CONSTRUCT MANAGED SHOULDERS.	1/21/2025	Design Build Let (DBL)	1/21/2025	RODGER ROCHELLE		\$109,970,000.00	
I-5993	I-40 - DURHAM COUNTY FROM US 15/US 501 TO EAST OF NC 147. PAVEMENT REHABILITATION. COORDINATE WITH I-5994.		Division Design Raleigh Let (DDRL)	1/21/2020	DOUGLAS R. MCNEAL		\$17,700,000.00	
I-5994	I-40 - DURHAM COUNTY FROM US 15/US 501 TO EAST OF NC 147. BRIDGE REHABILITATION. MULTIPLE STRUCTURES. COORDINATE WITH I-5993.		Division Design Raleigh Let (DDRL)	1/21/2020	DOUGLAS R. MCNEAL		\$6,652,000.00	
I-5995	I-40 - DURHAM/WAKE COUNTIES FROM EAST OF NC 147 TO SR 3015 (AIRPORT BOULEVARD). PAVEMENT REHABILITATION.		Division Design Raleigh Let (DDRL)	1/19/2021	DOUGLAS R. MCNEAL		\$5,272,000.00	
I-5998	I-540 - DURHAM/WAKE COUNTIES FROM I-40 IN DURHAM TO US 70 IN RALEIGH. PAVEMENT REHABILITATION. COORDINATE WITH I-5999 & I-6000.		Division POC Let (DPOC)	1/25/2023	DOUGLAS R. MCNEAL		\$3,800,000.00	

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I-6000	I-540 - DURHAM/WAKE COUNTIES FROM I-40 IN DURHAM TO US 1 IN RALEIGH. BRIDGE PRESERVATION/REHABILITATION. COORDINATE WITH I-5998 & I-5999.		Division POC Let (DPOC)	1/26/2022	DOUGLAS R. MCNEAL		\$4,541,000.00	
I-6006	I-40 DURHAM/WAKE COUNTIES FROM NC 54 (EXIT 273) TO SR 1728 (WADE AVENUE). CONVERT FACILITY TO A MANAGED FREEWAY WITH RAMP METERING AND OTHER ATM / ITS COMPONENTS.	1/21/2025	Design Build Let (DBL)	1/21/2025	PAM R. WILLIAMS	\$20,000.00	\$54,530,000.00	
I-6010	I-85/US 15 DURHAM COUNTY FROM EAST OF SR 1827 (MIDLAND TERRACE) TO SR 1632 (RED MILL ROAD) IN DURHAM. ADD LANES.	1/15/2027	Raleigh Letting (LET)	1/16/2029	PAM R. WILLIAMS	\$8,400,000.00	\$94,400,000.00	
P-5706	NORFOLK SOUTHERN H LINE, EAST DURHAM RAILROAD SAFETY PROJECT. PROJECT WILL STRAIGHTEN EXISTING RAILROAD CURVATURE BETWEEN CP NELSON AND CP EAST DURHAM AND INCLUDES A COMBINATION OF GRADE SEPARATIONS AND CLOSURES AT ELLIS ROAD SOUTH END CROSSING (734737A), GLOVER ROAD (734735L), AND WRENN ROAD (734736)	2/1/2023	NON - DOT LET (Rail)	1/31/2025	MATTHEW SIMMONS	\$9,000,000.00	\$42,400,000.00	
P-5716	NORFOLK SOUTHERN H LINE CROSSING 735236Y AT SR 1171 (ELLIS ROAD) IN DURHAM. CONSTRUCT GRADE SEPARATION.	6/16/2023	Raleigh Letting (LET)	6/16/2026	MATTHEW SIMMONS	\$1,000,000.00	\$3,700,000.00	

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P-5717	NORFOLK SOUTHERN H LINE CROSSING 734742W AT SR 1121 (CORNWALLIS ROAD) IN DURHAM. CONSTRUCT GRADE SEPARATION.	6/30/2019	Raleigh Letting (LET)	6/23/2020	KUMAR TRIVEDI	\$4,377,600.00	\$16,100,000.00	
P-5728	NS H LINE DURHAM COUNTY CONSTRUCT GRADE SEPARATION AT NEAL ROAD. COST INFORMATION DOES NOT EXIST AT THIS TIME AND A PLACEHOLDER VALUE OF \$1 WAS USED IN THE COST ESTIMATING SCREEN.	1/21/2025	Raleigh Letting (LET)	12/15/2026	MATTHEW SIMMONS	\$1,500,000.00	\$4,000,000.00	
U-4724	DURHAM - CORNWALLIS RD (SR 1158) FROM SR 2295 (SOUTH ROXBORO STREET) TO SR 1127 (CHAPEL HILL ROAD) IN DURHAM. BIKE AND PEDESTRIAN FEATURES.		NON - DOT LET (LAP)	6/30/2020	RAYMOND JOSEPH HAYES		\$4,978,000.00	
U-4726HN	CONSTRUCT BIKE LANES/SIDEWALKS IN DURHAM - HILLDALE ROAD	9/2/2019	NON - DOT LET (LAP)	1/1/2021	RAYMOND JOSEPH HAYES			
U-4726HO	CARPENTER - FLETCHER ROAD BIKE - PED; CONSTRUCT BIKE LANES / SIDEWALKS (CITY MAINTAINED) FROM WOODCROFT PARKWAY (CITY MAINTAINED) TO ALSTON AVENUE (SR 1945).	9/2/2019	NON - DOT LET (LAP)	1/29/2021	RAYMOND JOSEPH HAYES			
U-5516	AT US 501 (ROXBORO ROAD) TO SR 1448 (LATTA ROAD) / SR 1639 (INFINITY ROAD) INTERSECTION IN DURHAM. INTERSECTION IMPROVEMENTS.	5/17/2019	Division Design Raleigh Let (DDRL)	5/20/2020	BENJAMIN J. UPSHAW	\$6,501,430.00	\$5,500,000.00	Hydraulic design underway
U-5717	US 15/US 501 @ SR 1116 (GARRETT ROAD) IN DURHAM CONVERT AT-GRADE INTERSECTION TO INTERCHANGE	4/21/2019	Division Design Raleigh Let (DDRL)	4/21/2020	BENJAMIN J. UPSHAW	\$53,500,000.00	\$27,700,000.00	Field inspection scheduled in April

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Project ID	Description	R/W Acq Begins	Let Type	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
U-5720A	US 70 (MIAMI BLVD) FROM LYNN ROAD TO SR 1959 (SOUTH MIAMI BOULEVARD)/SR 1811 (SHERRON ROAD)	3/15/2022	Design Build Let (DBL)	3/15/2022	PAM R. WILLIAMS	\$35,800,000.00	\$57,000,000.00	
U-5720B	US 70 (MIAMI BLVD) AT SR 1959 (SOUTH MIAMI BOULEVARD)/SR 1811 (SHERRON ROAD) INTERSECTION	3/15/2022	Design Build Let (DBL)	3/15/2022	PAM R. WILLIAMS	\$17,321,000.00	\$25,300,000.00	
U-5720C	US 70 (MIAMI BLVD) FROM SR 1959 (SOUTH MIAMI BLVD)/SR 1811 (SHERRON ROAD) TO SR 2095 (PAGE ROAD EXTENSIONS). UPGRADE TO CONTROLLED-ACCESS FACILITY AND CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	3/15/2022	Design Build Let (DBL)	3/15/2022	PAM R. WILLIAMS	\$40,400,000.00	\$110,800,000.00	
U-5774A	NC 54 FROM US 15/US 501		Raleigh Letting (LET)	1/1/2030	PAM R. WILLIAMS	\$3,800,000.00	\$11,000,000.00	
U-5774B	NC 54 FROM US 15/US 501 IN ORANGE COUNTY TO SR 1110 (BARBEE CHAPEL ROAD) IN DURHAM COUNTY	6/16/2022	Raleigh Letting (LET)	6/18/2024	PAM R. WILLIAMS	\$11,000,000.00	\$30,900,000.00	
U-5774C	NC 54 FROM SR 1110 (BARBEE CHAPEL ROAD) TO I-40	6/16/2022	Raleigh Letting (LET)	6/18/2024	PAM R. WILLIAMS	\$3,000,000.00	\$23,700,000.00	
U-5774F	NC 54 FROM I-40/NC 54 INTERCHANGE	1/1/2027	Division POC Let (DPOC)	1/1/2028	PAM R. WILLIAMS	\$54,800,000.00	\$39,300,000.00	
U-5774H	NC 54 FROM NC 751 TO SR 1118 (FAYETTEVILLE ROAD)	7/15/2022	Raleigh Letting (LET)	10/15/2024	PAM R. WILLIAMS	\$8,400,000.00	\$13,200,000.00	
U-5823	WOODCROFT PARKWAY EXTENSION. FROM SR 1116 (GARRETT ROAD) TO NC 751 (HOPE VALLEY ROAD) IN DURHAM. CONSTRUCT ROADWAY ON NEW ALIGNMENT.	1/27/2020	NON - DOT LET (LAP)	8/30/2021	RAYMOND JOSEPH HAYES	\$421,000.00	\$1,798,000.00	
U-5934	NC 147 FROM I-40 TO FUTURE I-885 (EAST END CONNECTOR) IN DURHAM. ADD LANES AND REHABILITATE PAVEMENT	2/15/2022	Design Build Let (DBL)	2/15/2022	PAM R. WILLIAMS	\$2,148,000.00	\$177,100,000.00	

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U-5937	NC 147 DURHAM FREEWAY, DURHAM COUNTY FROM SR 1127 (WEST CHAPEL HILL STREET) TO BRIGGS AVENUE IN DURHAM. CONSTRUCT AUXILIARY LANES AND OPERATIONAL IMPROVEMENTS.	3/19/2021	Raleigh Letting (LET)	3/21/2023	PAM R. WILLIAMS	\$10,202,000.00	\$47,001,000.00	
U-5968	CITY OF DURHAM UPGRADE ITS / SIGNAL SYSTEM	1/3/2019	Raleigh Letting (LET)	4/16/2019	JASON P. GALLOWAY	\$750,000.00	\$21,865,000.00	
U-6021	SR 1118 (FAYETTEVILLE ROAD),FROM WOODCROFT PARKWAY TO BARBEE ROAD IN DURHAM. WIDEN TO 4-LANE DIVIDED FACILITY WITH BICYCLE / PEDESTRIAN ACCOMMODATIONS.	2/19/2021	Division Design Raleigh Let (DDRL)	2/21/2023	BENJAMIN J. UPSHAW	\$5,769,000.00	\$13,770,000.00	Design revisions to address City and public comments.
U-6067	US 15/US 501 DURHAM COUNTY FROM I-40 TO US 15/US 501 BUSINESS IN DURHAM UPGRADE CORRIDOR TO EXPRESSWAY.	2/21/2025	Raleigh Letting (LET)	2/16/2027	PAM R. WILLIAMS	\$55,000,000.00	\$140,300,000.00	
U-6118	NC 55 FROM MERIDIAN PARKWAY TO I-40 INTERCHNAGE IN DURHAM	1/1/2026	Division POC Let (DPOC)	1/1/2028	BENJAMIN J. UPSHAW	\$2,000,000.00	\$10,000,000.00	New P5.0 project
W-5601EM	SR 1118 (FAYETTEVILLE ROAD) AT PILOT STREET AND CECIL STREET. SAFETY IMPROVEMENTS.		Division POC Let (DPOC)	12/12/2018	JOHN EDWARD SANDOR		\$14,000.00	Anticipated Let in March, 2019
W-5705M	I-40 WESTBOUND AT NC 147 SAFETY IMPROVEMENTS (MP: 9.359 - 9.359)		Division POC Let (DPOC)	1/23/2019	JOHN EDWARD SANDOR		\$80,000.00	Anticipated Let in February, 2019
W-5705S	US 15/501 AT NC 751 SOUTHBOUND ON RAMP - EXTEND RAMP		Division POC Let (DPOC)	9/23/2020	STEPHEN REID DAVIDSON		\$460,000.00	
W-5705T	SR 1815/1917 (MINERAL SPRINGS ROAD) AT PLEASANT DRIVE CONSTRUCT ROUNDABOUT	4/1/2020	Division POC Let (DPOC)	4/21/2021	STEPHEN REID DAVIDSON	\$85,000.00	\$800,000.00	

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W-5705U	US 70 BUSINESS (MORGAN STREET) AT CAROLINA THREATRE		Division POC Let (DPOC)	1/16/2019	JOHN EDWARD SANDOR		\$20,000.00	Anticipated Let in March, 2019
W-5705V	NC 54 AT HUNTINGRIDGE ROAD		Division POC Let (DPOC)	1/16/2019	JOHN EDWARD SANDOR		\$80,000.00	Anticipated Let in March, 2019
Z-5700EB	RAILWAY-HIGHWAY SAFETY PROJECT AT SR 1632 (RED MILL ROAD) AND NS CROSSING 734 914C NEAR DURHAM		NON - DOT LET (Rail)	10/19/2019	MATTHEW SIMMONS			

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TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
SS-4907BS 44894.2.1 44894.3.1	Installation of traffic signal at the intersection of US70 and SR 1114 (Buckhorn Road) East of Mebane .	5/31/2017	Apr. 2019	\$40,500 R/W \$43,200 CON	Utility relocations complete, Right of entry rescinded, R/W acquisition pending	Dawn McPherson
W-5707C 44853.1.3 44853.3.3 47490	Revise pavement markings and overhead lane use signs for removal of inside lane drop configuration on I-40 Westbound in vicinity of US 15-501 interchange. Resurfacing I-40 WB by use of contingency funds	11/1/2018	Aug. 2019	\$395,000	Planning and design activities underway, re-let due to bids exceeded engineers estimate, new let date 11/1/18 and received no bids, possible delivery by design-build let	Chad Reimakoski
47798	Increase length of existing turn lane / slip ramp and improve existing radius in the SE quadrant of US 70 Business/ NC 86 at US 70 Bypass in Hillsborough	1/17/2019	Jul. 2019	\$189,000	Planning and design activities complete, R/W certified 9/18/18, signal work complete, widening scheduled by end of Mar. 2019	Derek Dixon
U-5846 50236.1.1 50236.2.1 50236.3.1	Construct a roundabout at SR 1772 (Greensboro Street) and SR 1780 (Estes Drive) in Carrboro .	Mar. 2019	FY2021	\$775,000	1st bid opening received no bids, Re-let 9/6/18 bids exceeded engineers estimate, project cost evaluation being performed, Utility relocation underway, Re-let pending	Chad Reimakoski
B-4962 40174.1.1 40174.2.1 40174.3.1	Replace Bridge #46 over Eno river on US 70 Bypass	4/16/2019	FY 2021	\$5,826,000	Planning and Design activities underway, ROW acquisition complete, ROW certified 1/22/19	Kevin Fischer
W-5707K 48283	Remove and replace existing curb & gutter and sidewalk, add pedestrian signals, concrete island, and signal modifications on SR 1010 (E. Main St / W. Franklin St) from Brewer Ln to Graham St. in Chapel Hill and Carrboro	5/31/2019	Sept. 2019	\$350,000	Construction May 2019	Chris Smitherman Derek Dixon
U-5847 50238.1.1 50238.2.1 50238.3.1	Intersection improvements at SR 1010 (West Franklin St.) and SR 1771 (Merritt Mill Rd)/SR1927 (Brewer Lane) in Chapel Hill / Carrboro .	5/31/2019	Sept. 2019	\$775,000	Planning and design activities underway, bike/ped improvements to be completed under project 48283	Chris Smitherman

NCDOT DIV 7 PROJECTS LOCATED IN DCHCMPO - UNDER DEVELOPMENT MPO Board 4/10/2019 Item 18

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
SS-4907CD 47936.1.1 47936.2.1 47936.3.1	Horizontal curve improvements on SR 1710 (Old NC 10) west of SR 1561/SR 1709 (Lawrence Road) east of Hillsborough. Improvements consist of wedging pavement and grading shoulders.	12/5/2019	Spring 2020	\$261,000	Planning and design activities underway	Chad Reimakoski
I-3306A 34178.1.3 34718.2.2 34178.3.3	Widening I-40 from I-85 in Orange Co. to Durham Co. line (US 15/501 Interchange)	TBD	TBD	\$98,800,000	Planning and design activities underway, Public meeting 1/24/19, No schedule at this time other than CE document scheduled for 3/29/19, Combined w/I-3306AC	Laura Sutton
P-5701 46395.1.1 46395.3.1	Construct Platform, Passenger Rail Station Building at Milepost 41.7 Norfolk Southern H-line in Hillsborough	6/30/2021	FY2022	\$7,200,000	PE funding scheduled 7/1/2020, Coordinate with U-5848	Matthew Simmons
R-5821A 47093.1.2 47093.2.2 47093.3.2	Construct operational improvements including Bicycle/Pedestrian accommodations on NC 54 from SR 1006 (Orange Grove Road) to SR 1107 /SR 1937 (Old Fayetteville Road).	6/21/2022	FY2024	\$3,924,000	Planning and design activities underway, coordinating with NC54 West Corridor Study	Jennifer Evans
U-5848 50237.1.1 50237.2.1 50237.3.1	Extend SR 1006 (Orange Grove Road) on new location with Sidewalks and bike lanes from existing SR 1006 (Orange Grove Road) to US 70 Business in Hillsborough .	3/21/2023	FY 2025	\$5,326,000	Planning and Design activities underway, Coordinate with P-5701 and U-5845	Laura Sutton
I-3306AC 34178.1.6 34178.2.5 434178.3.9	Interchange improvements at I-40 and NC86 in Chapel Hill	3/21/2023	FY 2025	\$16,500,000	Planning and Design activities underway, Combined w/I-3306A	Laura Sutton
I-5959 45911.1.1 45911.3.1	Pavement Rehabilitation on I-85 from West of SR 1006 (Orange Grove Road) to Durham County line	11/21/2023	FY 2025	\$11,155,000	Funding approved 10/10/17, Coordinate with I-5967, I-5984, I-5983 and I-0305	Chris Smitherman
I-5967 45917.1.1 45917.2.1 45917.3.1	Interchange improvements at I-85 and SR 1009 (South Churton Street) in Hillsborough	1/16/2024	FY 2027	\$20,700,000	Planning and Design activities underway, Coordinate with I-0305 and U-5845	Laura Sutton

NCDOT DIV 7 PROJECTS LOCATED IN DCHCMPO - UNDER DEVELOPMENT

MPO Board 4/10/2019 Item 18

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
U-5845 50235.1.1 50235.2.1 50235.3.1	Widen SR 1009 (South Churton Street) to multi-lanes from I-40 to Eno River in Hillsborough	1/16/2024	FY 2027	\$49,751,000	Planning and Design activities underway, Coordinate with U-5848 and I-5967	Laura Sutton
I-5984 47530.1.1 47530.2.1 47530.3.1	Interchange improvements at I-85 and NC 86 in Hillsborough	11/18/2025	FY 2027	\$16,488,000	Funding approved 10/10/17, Coordinate with I-0305 and I-5959	Laura Sutton
U-6071 47496.1.1 47496.2.1 47496.3.1	Intersection improvements at NC 54 and SR 1007 (Old Fayetteville Rd) in Carrboro	1/15/2026	FY 2027	\$1,216,000	Planning and design activities underway, Project on hold per Draft 2020-2029 STIP (unfunded project)	Jennifer Evans
I-5983 47529.1.1 47529.2.1 47529.3.1	Widen I-85 in Orange Co. from west of SR1713 (Mt. Hermon Church Rd) to Durham Co. line	10/20/2026	FY2029	\$53,460,000	Planning and Design activities underway, Coordinate with U-5848, I-0305 and I-5984	Laura Sutton
I-0305 34142.1.2 34142.2.2 34142.3.2	Widening of I-85 from west of SR1006 (Orange Grove Road) in Orange Co. to west of SR 1400 (Sparger Road) in Orange Co.	1/1/2027	FY2029	\$133,400,000	Planning and design activities underway, Project reinstated per Draft 2020-2029 STIP (funded project)	Laura Sutton



North Carolina Department of Transportation

Active Projects Under Construction - Orange Co.

<u>Contract Number</u>	<u>TIP Number</u>	<u>Location Description</u>	<u>Contractor Name</u>	<u>Resident Engineer</u>	<u>Contract Bid Amount</u>	<u>Availability Date</u>	<u>Completion Date</u>	<u>Work Start Date</u>	<u>Estimated Completion</u>	<u>Progress Schedule</u>	<u>Completion Percent</u>
C203640		REPLACEMENT OF 4 BRIDGES IN GUILFORD COUNTY AND 3 BRIDGES IN ORANGE COUNTY.	HAYMES BROTHERS, INC.	Lorenz, PE, Kris	\$3,124,500.00	06/01/2015	11/01/2017	09/02/2015	03/15/2019	100.00	92.24
C203946	B-5348	REPLACE BRIDGE #85 OVER PHILS CRK ON SR-1005(OLD G'BORO RD)	DANE CONSTRUCTION INC	Kirkman, PE, Christopher D	\$984,596.98	02/01/2018	12/27/2018	02/01/2018	01/30/2019	99.00	92.33
C204025	I-5954	PAVEMENT REHAB ON I-40/I-85 FROM EAST OF NC-54 IN GRAHAM IN ALAM. CO. TO WEST OF SR-1114 (BUCKHORN RD) IN ORANGE CO.	APAC - ATLANTIC INC THOMPSON ARTHUR DIVISION	Kirkman, PE, Christopher D	\$9,699,053.68						
DG00321	W-5143	SR 1004 (EFLAND-CEDAR GROVE RD) ROADWAY IMPROVEMENTS.	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$1,711,133.05	04/02/2018	04/02/2019	04/02/2018	04/02/2019	100.00	98.20
DG00393		RESURFACE SR 1101, SR 1118, SR 1119, SR 1124, SR 1125, SR 1127, SR 1128 SR 1130, SR 1134, SR 1135, SR 1137, SR 1141, SR 1143, ETC.	RILEY PAVING INC	Kirkman, PE, Christopher D	\$1,084,520.40	04/02/2018	10/12/2018	06/18/2018	12/07/2018	100.00	99.97
DG00395		REPLACE BRIDGE #189 ON SR 1114 (BUCKHORN ROAD) OVER CANE CREEK	S T WOOTEN CORPORATION	Kirkman, PE, Christopher D	\$723,924.13	04/01/2018	01/01/2019	05/07/2018	02/07/2019	97.00	99.75
DG00413		RESURFACE US 70 BUS, SR 1009, SR 1102, SR 1129, SR 1239, SR 1352, SR 1716 AND SR 1841	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$3,562,232.66	05/28/2018	11/01/2019	05/29/2018	11/01/2019	38.00	53.71
DG00419		RESURFACE NC 86 AND 17 SECONDARY ROADS	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$3,764,001.64	05/14/2018	11/01/2019	05/14/2018	11/01/2019	40.00	23.45
DG00427		REPLACE BRIDGE #51 ON SR 1534 (MCKEE ROAD) OVER BUFFALO CK.	NATIONAL BRIDGE BUILDERS LLC	Kirkman, PE, Christopher D	\$521,443.82	05/07/2018	03/04/2019	07/30/2018	04/29/2019	100.00	98.48
DG00435		AST RETREATMENT ON 22 SECONDARY ROADS	WHITEHURST PAVING CO INC	Kirkman, PE, Christopher D	\$846,340.66	04/01/2019	10/11/2019				
DG00444	R-5821B	INTERSECTION IMPORVEMENTS AT THE INTERSECTION OF NC 54 AND SR 1006 (ORANGE GROVE ROAD)	FSC II LLC DBA FRED SMITH COMPANY	Kirkman, PE, Christopher D	\$1,039,900.00	07/16/2018	05/16/2019	08/13/2018	05/16/2019	100.00	90.11
DG00445	R-5787BB	INSTALLATION OF ADA COMPLIANT CURB RAMPS AT VARIOUS INTERSECTIONS	LITTLE MOUNTAIN BUILDERS OF CATAWBA COUNTY INC	Kirkman, PE, Christopher D	\$319,319.80	06/25/2018	02/15/2020	08/06/2018	02/15/2020	70.00	61.61
	W-5707A	INSTALLATION OF ADA COMPLIANT CURB RAMPS AT VARIOUS INTERSECTIONS	LITTLE MOUNTAIN BUILDERS OF CATAWBA COUNTY INC	Kirkman, PE, Christopher D	\$319,319.80	06/25/2018	02/15/2020	08/06/2018	02/15/2020	70.00	61.61
DG00451	U-5854	SR 1008 (MT. CARMEL CHURCH ROAD) AND SR 1913 (BENNETT ROAD) ROUNDABOUT AND RELATED SAFETY IMPROVEMENTS	CAROLINA SUNROCK LLC	Kirkman, PE, Christopher D	\$1,833,468.84	08/15/2018	04/30/2020				
DG00461		BRIDGE REHAB. FOR BRIDGE #031 ON SR 1010 (E. FRANKLIN ST.) OVER BOLIN CREEK & BOLIN CREEK TRAIL	M & J CONSTRUCTION CO OF PINELLAS COUNTY INC	Robinson, Stephen J	\$2,456,272.12	11/12/2018	07/15/2019				
DG00462		REHAB BRIDGES 264, 288, 260, 543 IN ELITE INDUSTRIAL GUILFORD COUNTY AND BRIDGE 031 PAINTING INC IN ORANGE COUNTY		Snell, PE, William H	\$967,383.15	08/01/2019	01/01/2020				

Chatham County - DCHC MPO - Upcoming Projects - Division 8--March 2019

Contract # or WBS # or TIP #	Route	Description	Let Date	Completion Date	Contractor	Project Admin.	Project Cost	Notes
R-5825	NC 751 at SR 1731 (O'Kelly Chapel Road)	Upgrade and Realign Intersection	4/9/2019	TBD	TBD	Greg Davis (910) 773-8022	TBD	Right of Way in progress

Durham-Orange light-rail is dead. Could funds raised be used for more buses?

The Herald-Sun By Dawn Baumgartner Vaughan and Tammy Grubb March 28, 2019

DURHAM — While some Triangle residents mourned the death of the Durham-Orange light-rail project Thursday, others were busy suggesting what to do with the billions of dollars that would have paid for it.

The 18-mile light-rail line succumbed after decades of planning and over \$130 million spent to a variety of challenges. Duke University's refusal to stay the course may have been the final straw, but there also were growing costs, state deadlines and railroad companies' reluctance to sign a cooperative agreement and lease land for the rail line.

The GoTriangle Board of Trustees vote to stop the project Wednesday was a loss for regional transit and for the jobs, economic development and affordable housing that light rail promised, many local leaders said. Orange County Commissioner Mark Marcoplos said he and other GoTriangle board members sought a solution until the last minute.

But in the end, there were too many challenges to overcome by the state's Nov. 30 deadline to have the project funding in place. The future of regional transit is now back in the hands of the transit partners: the two counties' boards of commissioners and the Durham-Chapel Hill-Carrboro regional planning group (DCHCMPO).

Durham also is left to consider how to salvage years of planning for affordable housing, jobs and economic development, all tied to light rail.

IS THE DECISION FINAL?

The decision to end the light-rail project becomes official when Orange and Durham counties and the DCHCMPO board vote to end the project. The Orange County commissioners could vote Tuesday; the Durham County commissioners have not set a date yet.

HOW SOON COULD WE GET SOMETHING ELSE?

The partners will draft changes to the counties' transit plans, which also include new bus services, a Wake-Durham commuter rail line, and an Amtrak station in Hillsborough. It could take a year or more to draft new plans, submit them for public comment and get them approved.

"We're not going to come up with a new plan overnight," Orange County Commissioners Chair Penny Rich said Thursday. "That's a pipe dream."

It also could take years to put the new plans into action, even if it's just more buses and routes for GoDurham, GoTriangle, Chapel Hill Transit and Orange Public Transportation.

Regional bus-rapid transit service is more complicated, especially if federal tax dollars help pay for it. A small project, like Chapel Hill's planned bus-rapid transit route, can take two or three years to secure a Federal Transit Administration grant and at least two years to get state funding.

See the Orange County transit plan at bit.ly/2HJAZHF. See the Durham County transit plan at bit.ly/2HXz8OH.

HOW MUCH MONEY? HOW CAN WE SPEND IT?

GoTriangle amasses the money to pay for Orange and Durham transit plans through a half-cent sales tax, and car rental and registration fees.

Here's how much each county collected through June 2018. (Much of this money has been spent.) This year's financial report won't be available until mid-summer:

Orange County

- Total 2012-18: \$43.6 million (includes sales tax, fees and grants)
- 2018 sales tax: \$7.3 million
- 2018 car registration fees: \$771,820
- 2018 car rental fees: \$612,779

Durham County

- Total 2012-18: \$170.8 million (includes sales tax, fees and grants)
- 2018 sales tax: \$29.9 million
- 2018 car registration fees: \$2.3 million
- 2018 car rental fees: \$1.2 million

State law requires the counties to spend money collected through the transit sales tax on building, operating and maintaining public transportation systems.

The money cannot be used for schools, law enforcement or any other county services.

CAN LIGHT-RAIL MONEY GO TO BUSES?

The money that would have gone to light rail could be a boon for GoDurham and Chapel Hill Transit, which face budget shortfalls and potential cuts. The problem has been growing for several years because of deep cuts to state funding and the federal grants that help buy new buses. The cost of providing transit services also has been growing, officials have said.

In December, transportation leaders told the Durham City Council that GoDurham may need to end some bus routes. The system's five-year plan includes an \$875,000 projected shortfall, Harmon Crutchfield, assistant director of the city's transportation department, told the council. GoDurham also wants to purchase 40-foot electric buses, which cost around \$700,000 per bus.

In Chapel Hill, Chapel Hill Transit is looking to fill a nearly \$700,000 hole in next year's budget. The town used one-time grant money to fill the gap this year. Another challenge for Chapel Hill and its partners UNC and Carrboro is how to make the fare-free system, which has had budget problems for several years, financially sustainable.

Bill Judge, Durham's interim transportation director, said light rail funds, administered through the county's transit plan, cannot be used for operating shortfalls but could help with other needs.

"The funding source — local sales tax — requires the funds to be spent on new or expanded services, so these funds cannot be used to cover the proposed GoDurham budget shortfall," he said by email.

Orange County amended its plan in 2012 so that its transit agencies would have more flexibility in using the additional money to meet unexpected budget increases, such as if the price of fuel were to skyrocket.

WHAT ABOUT BUS SHELTERS?

Bus riders in Chapel Hill and Durham have been asking for more bus-stop shelters for years. Many of those stops now are little more than a sign on the side of the road.

The average cost for a bus shelter is about \$35,000, with lighting, sidewalk improvements and a concrete pad, Judge said. The transit sales tax is funding some bus stop improvements.

Durham also is preparing a list of “Participatory Budgeting” projects that all city residents age 13 and older will vote on in May as part of a new \$2.4 million program. More than 500 ideas were submitted, with “streets and sidewalks” receiving the most submissions, at 36 percent.

“It seems like basic decency to, at a minimum, provide a bench, trashcan, shelter and sidewalk for the community that rides the bus in Durham,” resident Bridgette Thurston wrote.

HOW DOES THIS AFFECT AFFORDABLE HOUSING?

It’s not clear yet.

The Durham City Council plans to put a \$95 million affordable housing bond referendum on the November ballot. Many of the projects it would support are near planned light rail stops.

One downtown project is already underway on Willard Street next to the Durham Station. The Durham Housing Authority’s renovation of J.J. Henderson public housing nearby is also underway.

Downtown light-rail stops would also have been built at Blackwell and Dillard street, near three sites — Oldham Towers, Liberty Street Apartments and Forest Hill Heights — the authority wants to turn into mixed-use projects with affordable and market-rate apartments.

Durham County, meanwhile, has already voted to redevelop two parking lots on East Main Street into parking garages with mixed-use, mixed-income apartments. Those two blocks are within walking distance of what would have been the Dillard Street light-rail stop.

Chapel Hill planned to seek affordable housing near its light-rail stations and also has a consultant’s plan for economic development of those stations in hand, but little work has been done to put those plans into action.

2 cities put light rail near hospitals, like the plan that worries Duke. Here’s what happened.

The Herald-Sun By Tammy Grubb March 25, 2019

DURHAM -- The Durham-Orange light-rail project could come to a head this week as a deadline nears for seeking \$1.24 billion from the Federal Transit Administration.

The 18-mile light-rail system would connect UNC Hospitals in Chapel Hill with Duke and N.C. Central universities in Durham, and points in between. The state has set a deadline of April 30 for the local money to be in place, and Nov. 30 for the federal grant.

With a grant, construction could start in 2020. But rising costs and Duke University’s decision to stop working on the project have put millions of dollars and a decade of planning at risk. Duke President Vincent Price and others [said the decision was based on multiple concerns](#), from patient safety and emergency access, to vibration and electromagnetic interference.

Most of those concerns have been or could be resolved, GoTriangle officials have said. The tale of two cities that already have light rail serving their medical and university centers show there is still room for caution.

The GoTriangle Board of Trustees will consider the next steps for the now-\$2.7 billion project at its meeting Wednesday,

LIGHT RAIL AND EMI

Light-rail trains are powered by an electrical current running from overhead catenary wires into the engine and returning through the rails to a traction power substation. The train's movement also causes temporary changes in the earth's geomagnetic field.

The processes combine to create electromagnetic interference, or EMI, which in large amounts can cause problems for sensitive equipment, like MRI and diagnostic scanners.

Veteran EMI consultant Charles Edelson said electromagnetic interference problems are rare, and there's usually a solution. Edelson was part of a team in the 1980s that developed the federal transportation system for identifying EMI causes, symptoms and solutions.

Analysis only goes so far, he said in a phone interview, while listening to details of the Durham-Orange project and EMI reports.

"We won't know there's a problem until they get the rail line in and start doing some testing," Edelson said.

LOCATION, MONITORING KEY

Many medical centers and hospitals are served by light rail, but a review of their locations using Google Earth showed that light rail in most cities runs 200 feet or more from medical and research buildings. Some Duke buildings are just 150 feet from the light-rail route.

A longer distance lets more of the EMI dissipate before reaching sensitive equipment.

Two light-rail systems with tight medical and research corridors are the Red Line through Texas Medical Center in Houston and the Green Line at the University of Minnesota Medical Center in Minneapolis. Both have health and science buildings within 150 feet of the trains.

Trevor Roy, spokesman for Minneapolis-St. Paul's Metro Transit, said a decade of planning for Minneapolis's Green Line faced "significant hurdles," including a lawsuit, [as reported by MPR News](#). The line opened in 2014, about 100 feet from two science buildings and a block from the medical center.

The trains were expected to affect roughly 100 labs and more than 150 pieces of equipment, said Leslie Krueger, University of Minnesota assistant vice president for planning, spaces and real estate.

The university moved its nuclear magnetic resonance equipment, and the regional government group building the project made changes to mitigate EMI and vibrations. Construction crews were required to meet testing and performance standards, and vibration and EMI issues have been monitored twice a year since the line opened, Krueger said.

In 2015, water and debris seeped into electrical boxes embedded in the rails, causing EMI spikes near the medical buildings, Krueger said. No equipment was damaged, she said, and a rubber membrane was installed to correct the problem.

"We were really motivated to make this work," Krueger said. "We really saw the value of having light rail through campus."

ELECTRICAL LEAKS AND PIPES

The Houston Chronicle reported that Houston's [first light-rail line sparked a funding fight](#) with congressional leaders, divisive debates and lawsuits. The 7.5-mile line through Texas Medical Center opened in time for the 2004 Super Bowl. It now serves more than 53,000 riders every weekday, Metropolitan Transit Authority of Harris County, known as METRO, reports.

"There were people who thought we would have issues, because we were running by the medical center, and the line put out electromagnetics that interfere," EMI consultant Edelson said. "As I recall, we didn't find any interference."

Roughly a year after the launch, stray electrical current was detected leaking from the rails into the ground. As the stray current finds its way back to the power station, it moves toward conductive materials in the earth, including iron and steel water pipes. The electrons carried in the electrical current can corrode those pipes, leading over time to cracks and breaks.

The medical center fought the Red Line, but it lost, said Richard Wainerdi, president emeritus of Texas Medical Center. There also were consultant problems and traffic issues, he said, and the 2007 lawsuit Texas Medical Center filed against METRO and the project's construction manager Siemens Transportation Systems Inc.

The [medical center's consultant found a risk for damage from stray current](#), but Siemens claimed immunity from any lawsuits. [The medical center and METRO agreed to testing and liability requirements in 2009](#), and Siemens reimbursed METRO for over a million dollars in testing, repairs and consultants. METRO spokeswoman Laura Whitley said the agency still tests for stray current.

"Those tests have never detected leakage," Whitley said in an email. "Additionally, stray current leakage has never been verified."

TRAFFIC, BAD DECISIONS

Traffic on busy Fannin Street is another issue for Texas Medical Center. In 2016-17, 11 crashes were reported at one especially dangerous intersection. Most involved drivers who ran red lights or turned left in front of a train, officials said.

Early crash statistics for Fannin Street didn't include the pedestrians struck by trains, Wainerdi added.

"You've got to be very careful where they put it," he said. "Nowhere near where the emergency rooms are or where it will interfere with traffic."

Duke "is going a very good job" looking out for its medical center and patients, Wainerdi said in a phone conversation Monday. He scoffed at the idea that Duke should have brought up electromagnetic interference years earlier, noting Duke officials are experts in medicine not railroads.

He also applauded GoTriangle's plan to elevate the Erwin Road light-rail tracks — a change that added \$90 million to the project's cost. That would have been the perfect solution to the traffic problems and, potentially, the stray current in Houston, he said.

"As long as they do their homework on the medical equipment, and things are shielded and grounded properly, that should take care of it," Edelson said.

Wainerdi also advised keeping an eye on transit agency attempts to save money on the project and the consultants hired for the jobs.

"The issues that we brought up have continued to be a problem," he said.

EMI REPORTS AT ODDS

GoTriangle has offered [documents showing Duke didn't raise EMI concerns until November 2017](#) — nearly two years after the route was set. Michael Schoenfeld, Duke's vice president of public affairs and government relations, raised questions about GoTriangle's responsibility to build and operate "a rail line safely and without creating danger to public health."

"In 2016, GoTriangle issued an environmental impact statement describing a plan to route a catenary electric light rail 150 feet from a hospital and research complex. It made no mention of EMI impacts on sensitive equipment, which means they were either unaware of this well-known issue, or chose not to disclose it," Schoenfeld said in an email.

A [draft EMI report](#) from GoTriangle [consultant LTK](#) evaluated 37 sites within 500 feet of the light-rail route. It noted magnetic fields would have the biggest effect on sensitive equipment within 200 feet of the trains, it said, offering some possible solutions.

The evaluation also found a "moderate" likelihood of EMI effects at four Duke facilities, including the hospital, and a "low" likelihood at Durham VA Medical Center. It said additional information about potentially affected equipment, and more work, is needed.

[Duke consultant Vitatech reviewed the findings](#) and also recommended more analysis but disagreed with LTK's summary of how EMI could affect sensitive equipment. Vitatech's review said EMI levels could be several times higher at multiple locations along Erwin Road.

"The preliminary analysis conducted by our independent expert indicates that, in fact, the impact of EMI on medical devices and thus the risk to patient safety appears to be even greater than had been initially understood from earlier data provided by GoTriangle's consultants," Schoenfeld said.

Neither company returned calls seeking more information.

Those bright green Lime bikes have disappeared from Durham and Wake Forest

The Herald-Sun By Richard Stradling March 25, 2019

WAKE FOREST – Lime, the California company whose bright green bicycles and scooters became a common sight in the Triangle, has ended its bikeshare program in Wake Forest.

The company told the town early this month that it is moving away from bicycles in favor of electric scooters, according to Suzette Morales, the town's transportation planning manager. Lime, which was known as LimeBike until last May, has pulled its bikes out of other cities as well, including Durham and Hartford, Conn.

Requests for comment from Lime were not returned Monday.

The company had expressed an interest in bringing scooters to Wake Forest as part of its bikeshare program, Morales said. The town didn't have a policy on scooters, so "it was not a decision that could have been made at that time," she wrote in an email.

Now the town has a scooter policy, but it wouldn't have helped Lime. Last week, citing safety concerns, town commissioners voted to ban motorized scooters from "sidewalks, greenways, parks, city streets and all other public areas" in town, according to a press release Monday.

Wake Forest approached Lime about bringing its bikes to town because it wanted to provide residents with low-cost transportation with little or no cost to the town, Morales said last year. The company placed about 200 of its bicycles downtown and in other key spots around town in June.

Morales said Wake Forest may consider a partnership with a dock-based bikeshare company in the future, but nothing has been decided. Dock-based systems, such as Citrix Cycle in Raleigh, also charge for rides, but the bikes must be rented and returned from docking stations, rather than left where the previous ride ended.

Lime made its debut in the Triangle in the summer of 2017, through an agreement with N.C. State University to set 300 pedal-powered bikes around campus. There was no cost to the university; Lime, through its mobile app, charged \$1 per half hour of ride time, or half price for university students, faculty and staff.

The company added another 200 bikes the following spring, including some with electric assist to help riders maintain their speed and climb hills.

Since then, Lime has changed its mix at NCSU, bringing in scooters and more electric bicycles and reducing the number of traditional bikes. This winter, the company pulled the last of its pedal bikes off campus, said Sarah Williams, the university's director for transportation demand management.

"The ridership just wasn't enough to justify how much time and money they were spending doing maintenance on the bikes," Williams said.

Lime is not the only bikeshare company that has decided scooters are more lucrative. Spin, a San Francisco-based company that once had bikes in Durham, now offers only "shared electric scooters for cities and campuses."

FTA rates Durham-Orange light-rail project 'medium,' calls financials 'optimistic'

The Herald-Sun By Tammy Grubb March 19, 2019

DURHAM — A Federal Transit Administration report posted Friday rated the Durham-Orange light-rail project "low" for its cost-effectiveness as GoTriangle and elected leaders wrestle with a growing construction budget and reluctant partners.

The project's overall rating — for a second time — was "medium."

The FTA rating scale has five levels, with "low" at the bottom. The FTA uses the ratings to judge whether a transit project is feasible and ready to be built. The ratings also will be used to determine whether the light-rail project gets \$1.24 billion in federal grant money.

The [FTA's fiscal year 2020 Annual Report on Funding Recommendations](#) said GoTriangle was being "optimistic" about how much money car registration and rental fees in Durham and Orange counties would generate for construction. The project also relies on a half-cent dedicated sales tax in the two counties.

The project's estimated construction cost, which has risen to \$2.7 billion since the FTA's November review, also is optimistic, it said.

The financial outlook was a mixed bag: "medium high" overall, but "medium low" for its "reasonableness" and "medium" for its commitment of local funds. Besides sale taxes and fees, the local funding includes \$102.5 million in land and cash donations. A nonprofit fundraising group has raised only \$15 million so far.

GoTriangle officials did not respond to requests for comment.

The latest rating does not appear to reflect Duke University's opposition to the light-rail line's planned route along Erwin Road or the addition of bridges, underpasses and a tunnel in downtown Durham.

The GoTriangle Board of Trustees, which includes elected officials from Durham, Orange and Wake counties, will consider next steps for the light-rail project March 27.

“The path forward requires additional money,” interim project director John Tallmadge said in an interview Monday after a Coalition for Affordable Housing and Transit meeting in Durham.

“As of today this still appears to be a viable project,” he said. “I know the word out there is Duke has killed it. We’re not dead yet.”

NEW STARTS GRANT

A medium rating is the lowest score a project can earn and still receive a federal New Starts transit grant. Most projects that have won federal grants were rated “medium high.” Charlotte’s LYNX Blue Line and Blue Line Extension projects were rated “medium” for project criteria when submitted, but their financial plans were upgraded to “medium high” before being funded in 2002 and 2012.

FTA officials do not comment publicly about proposed projects, but the ratings are based on several factors, including a project’s financial plan, congestion and environmental benefits, and how well it addresses economic development, housing and mobility goals.

FTA officials could update the project score before an April 30 state deadline for submitting a federal grant application and having the local money in place. The state also set a Nov. 30 for having the federal funding.

Missing either deadline could cost the project \$190 million in state funding.

ADDITIONAL RISK

Duke’s decision, N.C. Railroad Company’s hesitation in signing its cooperative agreement and the additional costs will create additional risk for the project and require GoTriangle to set more money aside for contingencies. An FTA draft risk report sent Feb. 26 warned the N.C. Railroad agreement is critical.

The report also encouraged GoTriangle to add more people who can “build and sustain a more effective working relationship” with its partners and secure land needed for the project. It’s important that the project stay on schedule, FTA officials said.

The [project’s previous rating — issued in July 2017 — included a medium-high score](#) for the capital and operations at that time, medium score for the amount of local and state money that had been committed, and a medium-low score for the project’s financial estimates.

The project’s cost-effectiveness was not rated in 2017.

Project staff is working on several details as the deadline nears, including a revised environmental study for the downtown corridor and new financial plans and cost-sharing agreements for Durham and Orange counties.

Both updates will require public comment periods. An FTA review of the final project budget may not be done until April, Tallmadge has said. Orange and Durham commissioners will have to approve the new financial plan and cost-sharing agreement.

Orange County has capped its construction cost at \$149.5 million; Durham County’s share is about \$1 billion. Neither figure includes interest on short- and long-term debt.

Durham officials are deciding whether to pay the new costs and any costs for acquiring Duke's land. Durham took on \$57.6 million last year to cover a shortfall in expected state funding.

If the project gets an FTA grant, half of the \$135 million that already has been spent will be reimbursed. If not, that money is gone.

GoTriangle could buy Duke's land through eminent domain, but that could involve a court battle lasting well past the April 30 deadline for submitting a grant application.

Staff writer Mark Schultz contributed to this story.

Has Duke killed the Durham-Orange light-rail project? Here's what leaders say now

The Herald-Sun By Tammy Grubb March 13, 2019

DURHAM – Duke University may have dealt a devastating blow to the Durham-Orange light-rail project, but GoTriangle and some local leaders say it's not done yet.

"It's not dead until we say it's dead," Orange County Commissioner Mark Marcoplos said Tuesday night

[A March 5 Indy story quoted him as saying Duke's decision leaves the light-rail project "99 percent dead."](#)

"Another way to say it, it's on life support, but it still has a heartbeat," he said. "There's options to explore and questions to answer, such as if we took the eminent domain route. Would that mean we didn't need a cooperative agreement with Duke?"

The cooperative agreement, which Duke rejected Feb. 27, would have continued its collaboration with GoTriangle. A lease agreement for the land needed for light rail would have come later.

Marcoplos and Durham County Commissioner Wendy Jacobs said elected officials owe it to the people who spent years working on and supporting the light-rail project to consider every option. Both are members of the GoTriangle Board of Trustees.

Jacobs also noted the spending so far of over \$135 million in Orange and Durham sales taxes and car rental and registration fees. The money is a drop in the bucket compared to the light-rail project's now nearly \$2.7 billion construction cost. Federal money is expected to pay about \$1.25 billion, with another \$190 million from the state.

An FTA grant would reimburse half of the money spent so far on environmental studies, staffing, consultants, planning, design work and engineering. No grant means that money is gone.

"When something like this happens and you have a tremendous, devastating blow, which is Duke basically walking away from this process, you don't just all of a sudden give up," Jacobs said. "Personally, it would be irresponsible of me as an elected official and as somebody who is on the GoTriangle board and on the (Durham-Chapel Hill-Carrboro) MPO board to do that."

Light rail is one of two key projects for the Triangle's economic and population growth, N.C. Department of Transportation Secretary Jim Trogdon told the Durham-Chapel Hill-Carrboro planning group Wednesday. The other is the I-540 project in Wake County, he said.

"Those two single projects will have more impact on the region's future than any others that we have," Trogon said.

"Can you talk to Duke?" Orange County Commissioners Chair Penny Rich quipped, to laughter from the room.

"I have shared my thoughts," Trogon responded.

Orange County has capped its construction cost at \$149.5 million; Durham's share is roughly \$1 billion with the additional costs. Neither figure includes interest on debt.

The project is on a challenging path, from getting Duke's land to raising private donations and deciding how to pay for increasing costs. GoTriangle also continues to negotiate with N.C. Railroad Company and Norfolk Southern for a cooperative agreement and land lease.

N.C. Railroad officials have told GoTriangle that plans for the two-mile rail corridor are only 20 percent complete and do not address their concerns. Tallmadge said Tuesday that work could be done by an April 30 state deadline for having local money and pledges in place. The state has set a Nov. 30 deadline for getting the Federal Transit Administration grant.

The Durham and Orange County commissioners could get revised financial plans and new cost-sharing agreement in the next few weeks, Tallmadge said. Missing either deadline risks losing state funding.

Meanwhile, attorneys are exploring options for Duke's land between U.S. 15-501 and the Washington Duke Golf Club, along Erwin Road and near Buchanan Boulevard. Eminent domain would start with a land appraisal, a fair market offer to buy the land and negotiations with Duke. The last step — condemnation — would take Duke's land for the fair market value but could start a protracted legal battle.

"We have to keep making every effort to assess all the challenges and all the risks and look at all the options we have, and make the best decision, possible because of the incredible investment that we've already made," Jacobs said, "and because so much of our future for Durham and Orange and the region is based on this plan, on this project."

That is especially true for Durham, she noted, because of the years planning for light-rail station growth, transportation, affordable housing and "sustainable, walkable, mixed-use communities." There's also been workforce development planning with Durham Tech and GoTriangle, she said.

"At end of the day, if the light-rail project falls through, we have just lost our entire strategy for managing our growth for the region, connecting people to jobs, (and) providing an alternative form of transportation as traffic gets worse," Jacobs said.

DID DUKE KILL LIGHT RAIL?

Duke's decision not to sign a cooperative agreement — and not donate \$16 million in land at the heart of the light-rail route — is a serious hurdle but not the only one. Read more about previous challenges at bit.ly/2T56tt0.

New hurdles were revealed this week, including an FTA request to revise the environmental study for downtown Durham. Local officials learned that study would be required after the federal shutdown ended in February, Marcoplos said.

It must be drafted, submitted for 30 days of public comment and revised again before April 30. The final light-rail plan also has to be completed and posted for public comment by the deadline.

Duke's decision to pull out also has affected GoTriangle's private fundraising effort, Tallmadge said. The nonprofit GoTransit Partners has raised \$15 million of \$102.5 million in needed cash and land donations, mostly from UNC and

N.C. Central University. Now corporate donors want to know the project is going to be built before pledging a donation, he said.

Local money could be used to fill the gap until those donations come in, he added.

ADDRESSING DUKE'S CONCERNS

Duke officials have issued [multiple letters outlining their concerns](#) since November. GoTriangle officials said [they have tried to address those concerns](#), which include:

- **Rail alignment:** Duke officials say any rail line that follows Erwin Road is unacceptable. Documents show Duke did not raise that concern until after GoTriangle received its Record of Decision from the FTA in 2016. At that point, the route could not be changed.
- **Safety and emergency access:** GoTriangle agreed to work with Duke to manage traffic during construction and give emergency vehicles priority in traffic using signal pre-emption technology. GoTriangle also added a \$90 million elevated track on Erwin Road.
- **Vibrations:** GoTriangle would use construction techniques and monitoring to minimize the effect of vibrations from rail building activities and passing trains. Duke wants a vibration standard that Tallmadge said "is 40 times more stringent than the standard for especially sensitive operating rooms."
- **Electromagnetic interference (EMI):** GoTriangle documents show Duke first raised concerns about EMI affecting sensitive research and medical equipment in November 2017. GoTriangle officials said they still don't have critical information about where the equipment is located.

"There are technical solutions, and nobody has ever said we will not address any of the concerns," Jacobs said. "It's not fair at this point to kill the whole project because you did not do your own homework."

If Duke knew about EMI earlier but failed to mention it, she said, "then it's irresponsible of them to let us go and spend \$130 million if they were never going to agree to it."

Duke sees the conversation differently, according to an email Wednesday from Michael Schoenfeld, Duke's vice president for public affairs and government relations. He referred questions about EMI issues and why they haven't been addressed to GoTriangle.

"Duke has said consistently for 20 years that placing a rail line down Erwin Road was problematic for a number of reasons," Schoenfeld said. "Duke expressed these concerns when the initial plan was for a diesel commuter train, and after it shifted to an electric light rail."

Multiple requests for documents that reflect those conversations have been met with a link to [a 1999 interview with former Duke President Nan Keohane](#). Keohane, in the Duke Chronicle story, said Duke opposed an elevated track on Erwin Road route, and "the change of character of the neighborhood that this would cause."

Duke officials did not cite concerns about the light-rail route or EMI in years of documents submitted to the FTA. GoTriangle also did not mention EMI in its 2016 environmental study, Schoenfeld said, "which means they were either unaware of this well-known issue, or chose not to disclose it," he said.

"To be clear: GoTriangle, not Duke, is responsible for building and operating a rail line safely and without creating danger to public health," he said. "Why GoTriangle did not acknowledge the hazards presented by EMI until Duke pointed it out to them is question they need to answer."

GoTriangle delays meeting on future of Durham-Orange light-rail project without Duke

The Herald-Sun By Tammy Grubb March 11, 2019

DURHAM – A meeting to talk about how the Durham-Orange light-rail project can keep moving without Duke University's cooperation has been postponed.

GoTriangle officials announced Monday that its Board of Trustees meeting set for Tuesday, March 12, would be moved to the board's regularly scheduled March 27 meeting.

The delay gives GoTriangle staff time to continue working on updated details and budget information for the 18-mile light-rail plan, GoTriangle officials said in a news release. They also are waiting for additional feedback from the Federal Transit Administration, which is reviewing the project and its potential risks, as well as from North Carolina Railroad officials.