



Technical Committee Meeting Agenda

Wednesday, January 22, 2020

9:00 AM

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

1. Roll Call
2. Adjustments to the Agenda
3. Public Comment

CONSENT AGENDA

4. **Approval of the December 18, 2019 TC Meeting Minutes** [20-114](#)

A copy of the December 18, 2019 meeting minutes is enclosed.

TC Action: Approve the minutes of the December 18, 2019 TC meeting..

Attachments: [2020-01-22 \(20-114\) 12.18.19 TC Meeting_LPA2.pdf](#)

ACTION ITEMS

5. **Election of TC Officers for 2020 (10 minutes)** [19-203](#)

Aaron Cain, LPA Staff

Per the TC's by-laws, the TC must elect officers at its first meeting of the calendar year. The current Chair, Nishith Trivedi of Orange County, is eligible to serve one more year as Chair. The current Vice Chair, Ellen Beckmann of the City of Durham, may also serve one more year as Vice Chair. Both have indicated interest in continuing to serve in their respective positions. No additional nominations were submitted to staff.

TC Action: Elect officers for 2020.

6. **Draft FY2021 Unified Planning Work Program (5 minutes)** [19-202](#)

Meg Scully, LPA Staff

The DCHC MPO is required by federal regulations to prepare an annual Unified Planning Work Program (UPWP) that details and guides the urban area transportation planning activities. Funding for the UPWP is provided by the Federal Highway Administration and the Federal Transit Administration. The UPWP must identify MPO planning tasks to be performed with the use of federal transportation funds. Attached is the draft FY2021 UPWP. The proposed schedule for UPWP development is as follows: draft FY2021 UPWP was reviewed by the Board and released for public comment on January 15, 2020. The MPO Board will be asked to hold a public hearing and approve the plan on February 12, 2020.

TC Action: Recommend the Board hold a public hearing and approve the Draft FY21 Unified Planning Work Program.

Attachments: [2020-01-22 \(19-202\) FY21 UPWP Draft.pdf](#)

7. Greater Triangle Commuter Rail Update (30 minutes)[19-172](#)**Katharine Eggleston, GoTriangle****John Hodges-Copple, TJCOG****Aaron Cain, LPA Staff**

Representatives of the study team for the Greater Triangle Commuter Rail will update the MPO Board on upcoming planning decisions, including a list of priority tasks for the potential next phase of study, to be memorialized in a Memorandum of Understanding (MOU) between the funding parties of the GTCR.

TC Action: Provide input on the draft priorities of the pending GTCR MOU.

8. Durham Transit Plan FY20 Amendment - Bus Stop Construction (10 minutes)[20-113](#)**Katharine Eggleston, GoTriangle****Aaron Cain, LPA Staff**

In the FY20 Durham Transit Tax Annual Work Plan, \$500,000 was programmed for design of 50 bus stop improvements for GoDurham. Progress on this work has proceeded at a pace that construction can be scheduled on 10 stops in FY20 rather than FY21 as previously planned. In addition, GoTriangle recommends proceeding with procurement of amenities for all 50 stops up front in order to access better prices and ensure amenities are in stock for installation as construction on each stop is completed. Therefore, GoTriangle, on behalf of GoDurham, is requesting an additional \$1,029,000 of funding from the Durham Transit Tax Fund to be pulled forward from the future funding pipeline into FY20. This is considered a material change to the plan per the existing Interlocal Agreement (ILA) because the request is for more than \$500,000 towards bus service. Therefore, the request must be approved by the governing boards of three parties to the ILA: GoTriangle, DCHC MPO, and the Durham Board of County Commissioners.

TC Action: Recommend that the Board approve amending the FY20 Durham Transit Tax Annual Work Plan to add \$1,029,000 for construction of bus stop improvements for GoDurham.

Attachments:[2020-01-22 \(20-113\) FY20 20GoT_CD2 Amendment - Material Change Memo.r](#)[2020-01-22 \(20-113\) FY20 20GoT_CD2 Amendment GoDurham Bus Stops Pro](#)

9. Submittal Candidates for SPOT 6 (45 minutes)[19-123](#)**Aaron Cain, LPA Staff**

DCHC MPO staff have worked with local government staff to determine the list of projects that will be submitted for scoring in SPOT 6. The calendar for submission is:

- January 22 - TC Review
- February 12 - MPO Board Review
- February 26 - TC Recommends Board Release List of Projects for Public Comment
- March 11 - MPO Board Releases List of Projects for Public Comment
- March 25 - TC Recommends Final List for Submittal
- April 8 - MPO Board Approves Final List for Submittal
- May 1 - Deadline for Submittal of Projects into SPOT Online

MPO staff has obtained preliminary scores for almost all of the current candidate highway projects. There are a few highway projects that do not fit well into the SPOT Online system and an accurate preliminary score cannot be obtained. Each highway project is scored on five criteria: Safety, Congestion, Cost-Benefit, Accessibility/Connectivity, and Freight (there are six criteria for modernization projects). Preliminary scores are only available for Congestion and Freight (and Shoulder Width for Modernization projects), and sometimes for Safety. However, preliminary scores can provide one data point of relative fundability among the candidate projects. A table of the preliminary scores for highway projects is attached.

DCHC MPO can submit 24 projects per mode in SPOT 6. Based on the preliminary scores, pre-submittal review done by NCDOT, and local and regional prioritization, MPO staff has developed a recommended list of 24 highway projects for SPOT 6 (see attachment). One project, U-6071, intersection improvements at NC 54 and Old Fayetteville Road, is under consideration as a carryover project and is assumed to be a carryover project at this time (carryover projects do not require a submittal slot for SPOT). Should the SPOT office determine that U-6071 is not a carryover project, one project would need to be removed from the submittal list in order to submit it.

At this time, DCHC MPO has a list of 30 bicycle/pedestrian projects, 23 transit projects, and 19 rail projects to submit for SPOT 6. Though the number of bicycle/pedestrian projects is above the limit of 24, Divisions 5 & 7 have in the past agreed to submit a few projects on behalf of DCHC. MPO staff hopes to continue that collaboration for SPOT 6, and therefore is keeping 30 projects on the candidate list. DCHC does not plan to submit any ferry or aviation projects in SPOT 6. Staff recommended submittals for bike/ped, transit, and rail projects are attached.

MPO staff will need the following from TC member organizations over the next three months:

- Submit any PE or ICE report you may have on any highway project to Aaron Cain. While SPOT Online does create a high-level cost estimate and NCDOT will do a preliminary design based on the description, if there is a particular design or more specific cost that you

have we can submit that to NCDOT for scoring.

- Coordinate with Dale McKeel on bicycle/pedestrian projects. NCDOT has released a new bicycle/pedestrian cost estimating tool for use in SPOT 6, but again if you have an ICE that is specific to your project that can be submitted.

- Coordinate with Aaron Cain for transit projects and rail projects. MPO staff will perform model runs for ridership for transit projects, and will need to work closely with transit agencies to ensure all necessary data is obtained for the submittals.

TC Action: Review the proposed submittal lists and, if prepared at this time, recommend that the MPO Board release the proposed lists for public review.

Attachments: [2020-01-22 \(19-123\) SPOT Highway Preliminary Scores.pdf](#)
[2020-01-22 \(19-123\) Staff Recommended Draft SPOT Bike-Ped Submittal List.r](#)
[2020-01-22 \(19-123\) Staff Recommended Draft SPOT Highway Submittal List.p](#)
[2020-01-22 \(19-123\) Staff Recommended Draft SPOT Rail Submittal List.pdf](#)
[2020-01-22 \(19-123\) Staff Recommended Draft SPOT Transit Submittal List.pdf](#)

REPORTS FROM STAFF:

10. Report from Staff [20-107](#)

Felix Nwoko, LPA Staff

TC Action: Receive report from Staff.

Attachments: [2020-01-22 \(20-107\) LPA staff report.pdf](#)

11. Report from the Chair [20-108](#)

Nishith Trivedi, TC Chair

TC Action: Receive report from the TC Chair.

12. NCDOT Reports [20-109](#)

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

Mike Mills (Pat Wilson), Division 7 - NCDOT

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

Julie Bogle, Transportation Planning Division - NCDOT

John Grant, Traffic Operations - NCDOT

TC Action: Receive reports from NCDOT.

Attachments: [2020-01-22 \(20-109\) NCDOT Progress Report.pdf](#)

INFORMATIONAL ITEMS:

Adjourn

Next meeting: February 26, 9 a.m., Committee Room

Dates of Upcoming Transportation-Related Meetings:

Joint Meeting of the DCHC-CAMPO MPO Boards, January 30, 2020, 9:00 a.m. - 11:30 a.m., Apex Town Hall, Training Room 3A & B, 73 Hunter St, Apex, NC.

Continental breakfast will be available at 8:30 a.m.

Meeting will start promptly at 9:00 a.m.

**DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION
TECHNICAL COMMITTEE**

December 18, 2019

MINUTES OF MEETING

The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization Technical Committee met on December 18, 2019, at 9:00 a.m. in the City Hall Council Chambers, located on the first floor of Durham City Hall. The following people were in attendance:

Nish Trivedi (Chair)	Orange County Planning
Ellen Beckmann (Vice Chair)	City of Durham
Kayla Seibel (Member)	City of Durham Planning
Evan Tenenbaum (Member)	City of Durham
Bergen Watterson (Member)	Chapel Hill Planning
Jomar Pastorelle (Member)	Chapel Hill Planning
Tina Moon (Member)	Carrboro Planning
Margaret Hauth (Member)	Hillsborough
Scott Whiteman (Member)	Durham County Planning
Brooke Ganser (Member)	Durham County Planning
Tom Altieri (Member)	Orange County Planning
Theo Letman (Member)	Orange Public Transportation
Chance Mullis (Member)	Chatham County
Julie Bogle (Member)	NCDOT TPD
John Hodges-Copple (Member)	Triangle J Council of Governments
Scott Levitan (Member)	Research Triangle Foundation
Michael Page (Member)	North Carolina Central University
Bill Judge (Alternate)	City of Durham
Richard Hancock (Alternate)	NCDOT, Division 5
Bryan Kluchar (Alternate)	NCDOT, Division 8
Jay Heikes (Alternate)	GoTriangle
Felix Nwoko	DCHC MPO
Brian Rhodes	DCHC MPO
Aaron Cain	DCHC MPO
Meg Scully	DCHC MPO
Andy Henry	DCHC MPO
Robert Jahn	DCHC MPO
Katherine Eggleston	GoTriangle

Quorum Count: 21 of 31 Voting Members

Chair Nish Trivedi called the meeting to order at 9:00 a.m. A roll call was performed. The Voting Members and Alternate Voting Members of the DCHC MPO Technical Committee (TC) were identified and are indicated above. Chair Nish Trivedi reminded everyone to sign-in using the sign-in sheet.

PRELIMINARIES:

2. Adjustments to the Agenda

Aaron Cain requested to add Preliminary Commuter Rail Study Results to the TC agenda. Aaron Cain added that there will be a TC Strategic Prioritization Office of Transportation (SPOT) meeting following the TC meeting. Aaron Cain stated that Cha'ssem Anderson will be the new Alternate for University of North Carolina (UNC) after UNC confirmation.

3. Public Comments

There were no members of the public signed up to speak during the meeting.

CONSENT AGENDA:

4. Approval of November 20, 2019, Meeting Minutes

There was no discussion of the Consent Agenda.

Scott Whiteman made a motion to approve the Consent Agenda. Jomar Pastorelle seconded the motion. The motion passed unanimously.

ACTION ITEMS:

5. Draft FY2021 Unified Planning Work Program

Meg Scully, LPA Staff

Meg Scully stated that the Unified Planning Work Program (UPWP) is required to identify the DCHC MPO's planning activities for the Fiscal Year (FY) 2020, which begins on July 1, 2020. Meg Scully added that funding for the UPWP is provided by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). Meg Scully stated that the UPWP is the budget for the MPO, Lead Planning Agency (LPA), and member jurisdictions that use federal funding in the region. Meg Scully discussed funding types and funding agencies in the UPWP. Meg Scully stated that funding tables and

descriptions of work plans can be located by task. Meg Scully added that the UPWP must identify MPO planning tasks to be performed with the use of federal transportation funds.

Meg Scully stated that there is an updated organization chart for the MPO. Meg Scully discussed the base budget for the UPWP, and cost sharing agreements between local jurisdictions and the federal government. Meg Scully, Bergen Watterson, and Vice Chair Ellen Beckmann discussed the possibility of obtaining additional Planning (PL) funding. Vice Chair Ellen Beckmann asked the importance of the inclusion of the Mobility Report Card (MRC) in the UPWP. Felix Nwoko and Vice Chair Ellen Beckmann agreed to form a subcommittee to discuss the MRC at a future date. Vice Chair Ellen Beckmann and Aaron Cain discussed updating the Comprehensive Transportation Plan (CTP) to include bicycle facilities. Meg Scully stated that after the release of the UPWP for a 21-day comment period is approved by the MPO Board, it will be scheduled to return to the TC in January, and then it will go back to the MPO Board for final approval.

Margaret Hauth made a motion to recommend that the MPO Board release the Draft FY2021 UPWP for public comment. Chance Mullis seconded the motion. The motion passed unanimously.

6. Preliminary Wake-Durham Commuter Rail Study Results

Aaron Cain, LPA Staff

Katherine Eggleston, Go Triangle

Katherine Eggleston thanked other participants and patriating parties for their help in the Preliminary Wake-Durham Commuter Rail Study Update. Katherine Eggleston stated that North Carolina Railroad (NCRR) preferred that an additional track be built for the commuter rail. There was discussion that there was space available for an additional track for most of the corridor, but there are sections of the corridor where encroachment and topography would likely be an issue. Katherine Eggleston stated that there are factors that would determine cost, such as the start and end point of the commuter rail; therefore, GoTriangle has created different cost scenarios. Katherine Eggleston added that the number of commuter rail stations and park-and-rides also impact cost. There was discussion about the possibility

95 of whether or not an additional track through downtown Durham can be constructed at grade. There
96 was discussion that contingencies were included in the overall budget. There was discussion about
97 Operation and Management (O&M) cost and how it would be shared among jurisdictions. Vice Chair
98 Ellen Beckmann and Katherine Eggleston discussed that Durham would spend approximately \$8M
99 annually in O&M costs.

100 John Hodges-Copple and Jay Heikes discussed that the Simplified Trips-on-Product Software
101 (STOPS) model and the Triangle Regional Model (TRM) were used in determining ridership. Jay Heikes
102 stated that STOPS is used by the Federal Transit Administration (FTA) to evaluate major proposed transit
103 projects. Jay Heikes stated that both models use data that is found with the Metropolitan
104 Transportation Plans (MTP) of CAMPO and DCHC MPO. Katherine Eggleston discussed that expansion of
105 the Commuter Rail to communities outside of Wake and Durham counties will impact cost sharing
106 agreements.

107 Katherine Eggleston discussed how the FTA will evaluate and rate the Commuter Rail project.
108 Katherine Eggleston stated that the six criteria are equally weighted. Vice Chair Ellen Beckmann and
109 Katherine Eggleston discussed that there are currently five proposed stations in Durham that are in the
110 Commuter Rail Plan, and ridership is impacted by parking restrictions at each of the stops. There was
111 discussion about the criterion of cost effectiveness. There was discussion about ridership numbers and
112 how it impacts mobility scoring. There was discussion about how FTA scores the criteria for
113 environment, economic development, and cost-effectiveness.

114 Tina Moon requested that maps be included to future presentations of the Commuter Rail Plan
115 to elected officials. There was discussion about ridership. There was discussion that the capital cost for
116 Durham County would be approximately \$300M, and an approximate overall cost \$1.8B. Aaron Cain
117 added that approximately \$2-3M would be needed from Durham County to perform modeling and
118 further studies. Chair Nish Trivedi and Katherine Eggleston discussed that preliminary work for the

Commuter Rail Project is scheduled to be completed in February 2020 and presentations are scheduled to be given before local boards starting approximately in March 2020. Katherine Eggleston added that development delivery is planned in approximately one year following the completion of the preliminary study. Chair Nish Trivedi and Aaron Cain discussed that the Commuter Rail Plan and the Durham and Wake County transit plans will be moving forward concurrently. There was discussion about Orange and Johnston counties contributing financially to ongoing Commuter Rail studies. There was discussion about how future expenses will be split among jurisdictions. Vice Chair Ellen Beckmann and Katherine Eggleston discussed future public engagement. Vice Chair Ellen Beckmann and Aaron Cain discussed that the EngageDurham process would be used for public engagement. Aaron Cain added that the Commuter Rail Plan Update will be discussed at the Joint DCHC MPO and CAMPO Board Meeting on January 30, 2020.

7. Election of TC Officers for 2020

Aaron Cain, LPA Staff

Aaron Cain stated that Nish Trivedi and Ellen Beckmann are eligible to remain for an additional year as Chair and Vice Chair, respectively. Aaron Cain added that, per the TC bylaws, if a new Chair is nominated, then they must be nominated from either Durham or Chatham County, and the Vice Chair cannot come from the same county as the Chair. Aaron Cain requested that any nominations be submitted to him by January 21, and that elections are scheduled to occur at the TC meeting on January 22.

REPORTS:

8. Reports from the LPA Staff

Felix Nwoko, Andy Henry, LPA Staff

Aaron Cain stated that information must be provided to the North Carolina Department of Transportation (NCDOT) Divisions for the Locally Administered Projects Program (LAPP) projects. Aaron Cain added that he will coordinate with participating jurisdictions to compile the LAPP project information. Vice Chair Ellen Beckmann and Aaron Cain discussed issues related to reimbursement for LAPP projects by

NCDOT Divisions. Aaron Cain stated that the Federal Highway Administration (FHWA) confirmed that there will be no federal rescission through the Fixing America's Surface Transportation (FAST) Act.

9. Report from the DCHC MPO TC Chair

Nish Trivedi, DCHC MPO TC Chair

There was no report from the Chair.

10. NCDOT Reports

Richard Hancock, Division 5, stated that the Old Durham Road project (EB-4707A) was delayed due to utility issues. Vice Chair Ellen Beckmann requested that LPA staff assemble information from NCDOT regarding environmental documents for the current Transportation Improvement Program (TIP) projects relating to the Complete Streets guidelines.

There was no additional report from Division 7.

Bryan Kluchar, Division 8, stated that there was no additional report.

There was no additional report from NCDOT Transportation Planning Division.

There was no report from NCDOT Traffic Operations.

INFORMATIONAL ITEMS:

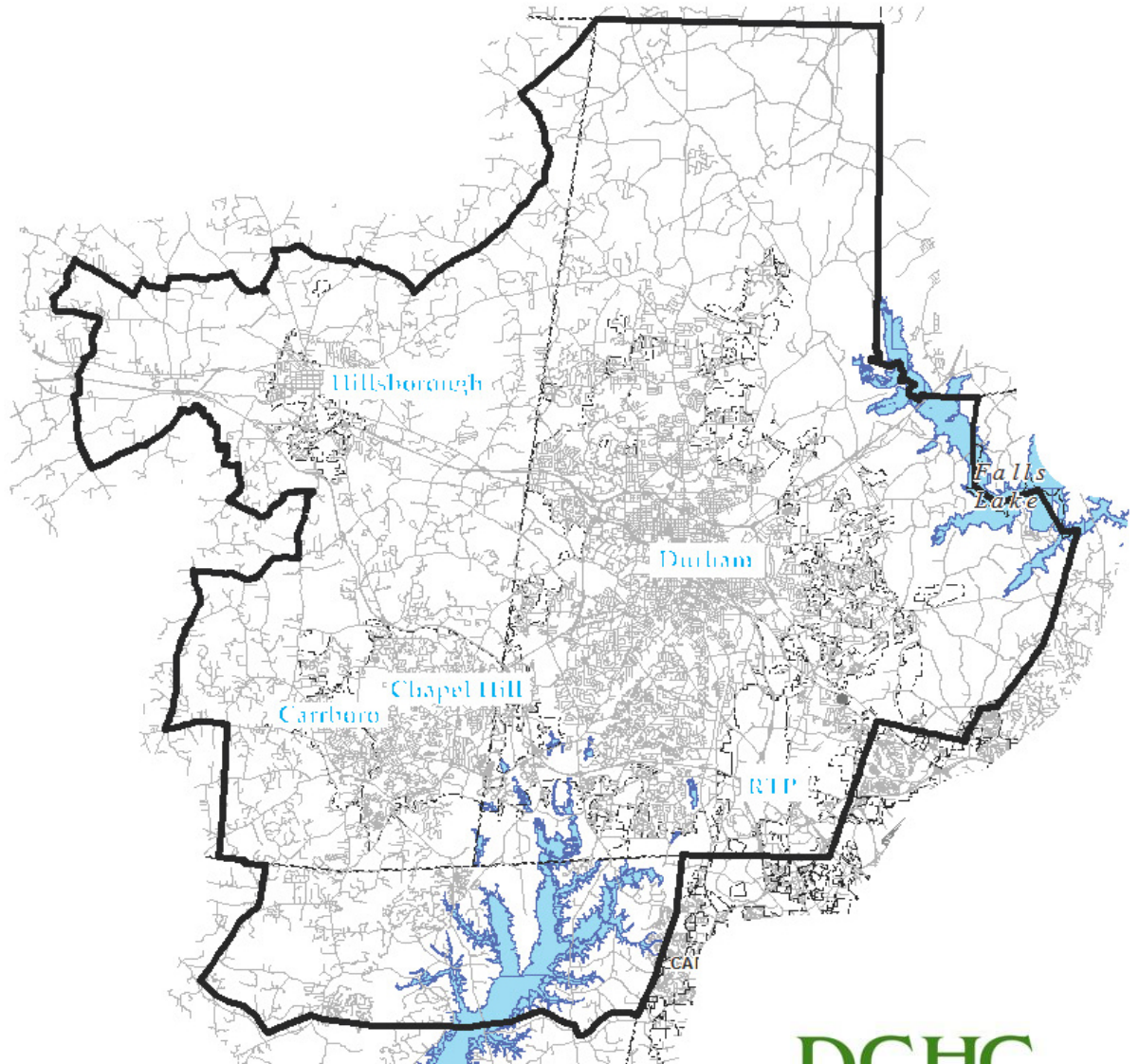
Chair Nish Trivedi stated that the next TC meeting will be January 22, 2020.

ADJOURNMENT:

There being no further business before the DCHC MPO Technical Committee, the meeting was adjourned at 11:12 a.m.

Durham Chapel-Hill Carrboro Metropolitan Planning Organization

FY2021 Unified Planning Work Program



APPROVED: XX-XX-XXXX

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**Durham Chapel-Hill Carrboro Metropolitan Planning Organization (DCHC MPO) Resolution
Approving the FY2021 Unified Planning Work Program of the DCHC MPO for FTA and FHWA**

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, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation projects are effectively allocated to the Durham Chapel-Hill Carrboro Metropolitan Planning Organization (DCHC MPO); and

Whereas, the City of Durham Department of Transportation has been designated as the recipient of Federal Transit Administration (FTA) Metropolitan Planning Program funds; and

Whereas, the City of Durham Department of Transportation has been designated as the recipient of Section 104(f) Planning and Technical Studies Planning grant funds; and

Whereas, members of the DCHC MPO Board agree that the Unified Planning Work Program will effectively advance transportation planning for FY2021.

Now therefore, be it resolved that the MPO Board hereby endorses the FY2021 Unified Planning Work Program for the DCHC MPO Urban Area.

I, Wendy Jacobs, Chair of the MPO Board do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the DCHC MPO Board, duly held on the ____ day of _____, 2020.

Wendy Jacobs, MPO Board Chair

Durham County, North Carolina

I certify that Board Chair, Wendy Jacobs personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: _____

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

**Resolution Certifying the Durham Chapel-Hill Carrboro Metropolitan Planning Organization
Transportation Planning Process for FY2021**

Whereas, the Durham Chapel-Hill Carrboro Metropolitan Planning Organization (DCHC MPO) Board has found that the MPO is conducting transportation planning in a continuous, cooperative, and comprehensive manner in accordance with 23 U.S.C. 134 and 49 U.S.C. 1607;

Whereas, the MPO Board has found the transportation planning process to be in compliance with Sections 174 and 176 (c) and (d) of the Clean Air Act (42 U.S.C. 7504, 7506 (c));

Whereas, the MPO Board has found the transportation planning process to be in full compliance with Title VI of the Civil Rights Act of 1964 and the Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C. 794;

Whereas, the MPO Board has considered how the transportation planning process will affect the involvement of Disadvantaged Business Enterprises in the FHWA and the FTA funded planning projects (Sec. 105(f), Pub. L. 97-424, 96 Stat. 2100, 49 CFR part 23);

Whereas, the MPO Board has considered how the transportation planning process will affect the elderly and the disabled per the provision of the Americans with Disabilities Act of 1990 (Pub. L. 101-336, 104 Stat. 327, as amended) and the U.S. DOT implementing regulations (49 CFR parts 27, 37, and 38);

Whereas, the DCHC MPO Metropolitan Transportation Improvement Program is a subset of the currently conforming Metropolitan Transportation Plan (MTP);

Whereas, the MTP has a planning horizon year of 2045, and meets all the requirements for an adequate MTP,

Now therefore, be it resolved that the DCHC Urban Area MPO Board certifies the transportation planning process for the DCHC Metropolitan Planning Organization on this the ____ day of _____, 2020.

Wendy Jacobs,
Board Chair

Clerk/Secretary/Planner

Metropolitan Planning Self-Certification Process

CFR 450.334 - The State and MPO shall annually certify to FHWA and FTA that the planning process is addressing the major issues facing the area and is being conducted in accordance with all applicable requirements of:

- Section 134 of title 23 U.S.C., section 8 of the Federal Transit Act (49 U.S.C. app. 1607) and;
- Section 174 and 176 (c) and (d) of the Clean Air Act (42 U.S.C. 7504, 7506 (c) and (d));
- Title VI of the Civil Rights Act of 1964 and Title VI assurance executed by each state under 23 U.S.C. 324 and 29 U.S.C. 794;
- Section 103(b) of the Intermodal Surface Transportation Efficiency Act of 1991 (Public Law 102-240) regarding the involvement of disadvantaged business enterprises in the FHWA and the FTA funded planning projects; and
- The provisions of the Americans with Disabilities Act of 1990 (Public Law 101-336, 104 Stat. 327, as amended) and U.S. DOT regulations “Transportation for Individuals with Disabilities” (49 CFR parts 27, 37, and 38).

In addition, the following checklist should help guide the MPO as they review their processes and programs for self-certification.

1. Is the MPO properly designated by agreement between the Governor and 75% of the urbanized area, including the central city, and in accordance in procedures set forth in state and local law (if applicable)? [23 U.S.C. 134 (b); 49 U.S.C. 5303 (c); 23 CFR 450.306 (a)]. Response: Yes
2. Does the policy board include elected officials, major modes of transportation providers and appropriate state officials? [23 U.S.C. 134 (b); 49 U.S.C. 5303 (c); 23 CFR 450.306 (i)]
Response: Yes, the policy board includes elected officials/representatives of Durham City, Durham County, Town of Carrboro, Town of Chapel Hill, Town of Hillsborough, Orange County, Chatham County, NCDOT BOT and GoTriangle (regional transit representative).
3. Does the MPO boundary encompass the existing urbanized area and the contiguous area expected to become urbanized within the 20-yr forecast period? [23 U.S.C. 134 (c), 49 U.S.C. 5303 (d); 23 CFR 450.308 (a)] Response: Yes
4. Is there a currently adopted Unified Planning Work Program? [23 CFR 450.314] Response: Yes.
 - a. Is there an adopted prospectus? Yes
 - b. Are tasks and products clearly outlined? Yes
 - c. Is the UPWP consistent with the MTP? Yes
 - d. Is the work identified in the UPWP completed in a timely fashion? Yes
5. Does the area have a valid transportation planning process? Response : Yes
[23 U.S.C. 134; 23 CFR 450]
 - a. Is the transportation planning process continuous, cooperative and comprehensive? Yes
 - b. Is there a valid MTP? Yes
 - c. Did the MTP have at least a 20-year horizon at the time of adoption? Yes
 - d. Does it address the eight planning factors? Yes,
 - e. Does it cover all modes applicable to the area? Yes
 - f. Is it financially constrained? Yes
 - g. Does it include funding for the maintenance and operation of the system? Yes
 - h. Does it conform to the State Implementation Plan (SIP) (if applicable)? Yes
 - i. Is it updated/reevaluated in a timely fashion (at least every 4 or 5 years)? Yes

6. Is there a valid TIP? [23 CFR 450.324, 326, 328, 330, 332] Response: Yes
 - a. Is it consistent with the MTP? Yes
 - b. Is it fiscally constrained? Yes
 - c. Is it developed cooperatively with the state and local transit operators? Yes.
 - d. Is it updated at least every 4-yrs and adopted by the MPO and the Governor? Yes
7. Does the area have a valid CMP? (TMA only) [23 CFR 450.320] Response: Yes
 - a. Is it consistent with the MTP? Yes
 - b. Was it used for the development of the TIP? Yes
 - c. Is it monitored and reevaluated to meet the needs of the area? Yes
8. Does the area have a process for including environmental mitigation discussion in the planning process? Yes
 - a. How? Through periodic meeting with environmental resource agencies and involving the agencies in the MTP process.
 - b. Why not? N/A
9. Does the planning process meet the following requirements? Response: Yes.
 - a. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
 - b. In nonattainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended 42 U.S.C. 7504, 7506 (c) and (d) and 40 CFR part 93;
 - c. Title VI of the Civil Rights Act of 1964, as amended 42 U.S.C. 2000d-1 and 49 CFR part 21;
 - d. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
 - e. MAP-21/FAST Act and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
 - f. 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
 - g. The provisions of the Americans with Disabilities Act of 1990 Sections 42 U.S.C. 12101 et seq. and 49 CFR parts 27, 37, and 38;
 - h. The Older Americans Act, as amended 42 U.S.C. 6101, prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
 - i. Section 324 title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
 - j. Section 504 of the Rehabilitation Act of 1973 29 U.S.C. 794 and 49 CFR part 27 regarding discrimination against individuals with disabilities.
 - k. All other applicable provisions of Federal law. (i.e. Executive Order 12898)
10. Does the area have an adopted PIP/Public Participation Plan? [23 CRR 450.316 (b)(1)]? Yes
 - a. Did the public participate in the development of the PIP? Yes
 - b. Was the PIP made available for public review for at least 45-days prior to adoption? Yes.
 - c. Is adequate notice provided for public meetings? Yes.
 - d. Are meetings held at convenient times and at accessible locations? Yes.
 - e. Is public given the opportunity to provide oral/written comment on planning process? Yes.
 - f. Is the PIP periodically reviewed and updated to ensure its effectiveness? Yes.
 - g. Are plans and documents available in an electronic accessible format, i.e. MPO website? Yes
11. Does the area have a process for including environmental, state, other transportation, historical, local land use and economic development agencies in the planning process? Yes
 - a. How? Through inter-agency coordination, and collaboration
 - b. Why not? N/A

DCHC MPO Title VI Assurances

The Durham Chapel-Hill Carrboro Metropolitan Planning Organization (DCHC MPO) (hereinafter referred to as the “Recipient”) HEREBY AGREES THAT as a condition to receiving any Federal financial assistance from the North Carolina Department of Transportation and the US Department of Transportation it will comply with the Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d-42 (hereinafter referred to as the Act), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation. Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the Regulations) and other pertinent directives, to the end that in accordance with the Act, Regulations, and other pertinent directives, no person in the United States shall, on the grounds of race, color, sex, age, national origin or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the Department of Transportation, including the Federal Highway Administration, and HEREBY GIVES ASSURANCE THAT it will promptly take any measures necessary to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

More specifically and without limiting the above general assurance, the Recipient hereby gives the following specific assurances with respect to its Federal-Aid Highway Program:

1. That the Recipient agrees that each “program” and each “facility” as defined in subsections 21.23 (b) and 21.23 (e) of the Regulations, will be (with regard to a “program”) conducted, or will be (with regard to a “facility”) operated in compliance with all requirements imposed by, or pursuant to, the Regulations.
2. That the Recipient shall insert the following notification in all solicitations for bids for work or material subject to the Regulations made in connection with the Federal-Aid Highway Program and, in adapted form in all proposals for negotiated agreements:

The DCHC MPO in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

3. That the Recipient shall insert the clauses of Appendix A of this assurance in every contract subject to the Act and the Regulations.
4. That the Recipient shall insert the clauses of Appendix B of this assurance, as a covenant running with the land, in any deed from the United States effecting a transfer of real property, structures, or improvements thereon, or interest therein.
5. That where the Recipient receives Federal financial assistance to construct a facility, or part of a facility, the assurance shall extend to the entire facility and facilities operated in connection therewith.

6. That where the Recipient receives Federal financial assistance in the form, or for the acquisition of real property or an interest in real property, the assurance shall extend to rights to space on, over or under such property.
7. That the Recipient shall include the appropriate clauses set forth in Appendix C of this assurance, as a covenant running with land, in any future deeds, leases, permits, licenses, and similar agreements entered into by the Recipient with other parties: (a) for the subsequent transfer of real property acquired or improved under the Federal-Aid Highway Program; and (b) for the construction or use of or access to space on, over or under real property acquired, or improved under the Federal-Aid Highway program.
8. That this assurance obligates the Recipient for the period during which Federal financial assistance is extended to the program, except where the Federal financial assistance is to provide, or is in the form of, personal property, or real property or interest therein or structures or improvements thereon, in which case the assurance obligates the Recipient or any transferee for the longer of the following periods: (a) the period during which the property is used for a purpose for which the Federal financial assistance is extended, or for another purpose involving the provision of similar services or benefits; or (b) the period during which the Recipient retains ownership or possession of the property.
9. The Recipient shall provide for such methods of administration for the program as are found by the Secretary of Transportation or the official to whom he delegates specific authority to give reasonable guarantee that it, other recipients, subgrantees, contractors, subcontractors, transferees, successors in interest, and other participants of Federal financial assistance under such program will comply with all requirements imposed or pursuant to the Act, the Regulations and this assurance.
10. The Recipient agrees that the United States has a right to seek judicial enforcement with regard to any matter arising under the Act, the Regulations, and this assurance.

THIS ASSURANCE is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property, discounts or other Federal financial assistance extended after the date hereof to the Recipient under the Federal-Aid Highway Program and is binding on it, other recipients, subgrantees, contractors, subcontractors, transferees, successors in interest and other participants in the Federal-Aid Highway Program. The person or persons whose signatures appear below are authorized to sign this assurance on behalf of the Recipient.

Wendy Jacobs, MPO Board Chair

Date

Felix Nwoko, Ph.D.
DCHC MPO Manager

Date

Introduction

The DCHC MPO is required by federal regulations to prepare an annual Unified Planning Work Program (UPWP) that details and guides the urban area transportation planning activities. The Fixing America's Surface Transportation Act (FAST Act) is the most recent law establishing federal transportation policy and funding authorizations. Federal regulations implementing transportation policy (23 CFR §450.308) require that:

"(b) Metropolitan transportation planning activities performed with funds provided under title 23 U.S.C. and title 49 U.S.C. Chapter 53 shall be documented in a unified planning work program (UPWP)...

(c) ...each MPO, in cooperation with the State(s) and public transportation operator(s) shall develop a UPWP that includes a discussion of the planning priorities facing the MPA [metropolitan planning area]. The UPWP shall identify work proposed for the next one- or two-year period by major activity and task (including activities that address the planning factors in §450.306(a)), in sufficient detail to indicate who (e.g., MPO, State, public transportation operator, local government, or consultant) will perform the work, the schedule for completing the work, the resulting products, the proposed funding by activity/task, and a summary of the total amounts and sources of Federal and matching funds."

Funding for the UPWP is provided on an annual basis by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). Essentially, the UPWP provides yearly funding allocations to support the ongoing transportation planning activities of the DCHC MPO. The UPWP must identify MPO planning tasks to be undertaken with the use of federal transportation funds, including highway and transit programs. Tasks are identified by an alphanumeric task code and description. A complete narrative description for each task is more completely described in the *Prospectus for Continuing Transportation Planning for the Durham Chapel-Hill Carrboro Metropolitan Planning Organization*, approved by the TAC on February 13, 2002. The *Prospectus* was developed by NCDOT in cooperation with MPOs throughout the state.

The UPWP also contains project descriptions for special projects and FTA projects. Special project descriptions are provided by the responsible agency. FTA planning project task descriptions, FTA Disadvantaged Businesses Contracting Opportunities forms, and FTA funding source tables are also included in this work program.

The funding source tables reflect available federal planning fund sources and the amounts of non-federal matching funds. The match is provided through either local or state funds or both. Section 104(f) funds are designated for MPO planning and are used by the Lead Planning Agency to support MPO planning functions. Section 133(b)(3)(7) funds are the portion of STBG-DA funds identified in the UPWP for MPO planning. The LPA and MPO jurisdictions use these funds to support the MPO planning functions and regional special projects, such as corridor studies, Community Viz update, Regional Freight Plan implementation and update, data collection geo-database enterprise update, regional model update and enhancement, travel behavior surveys and onboard transit survey, etc.

A source of funds for transit planning for Chapel Hill Transit (CHT), GoDurham, and the LPA is the Federal Transit Administration's Section 5303 funds. These funds are allocated by NCDOT's Public Transportation Division (PTD). Transit agencies may also use portions of their Section 5307 funds for planning. These funds must be approved by the MPO Board as part of the UPWP approval process.

Proposed FY2021 UPWP Activities and Emphasis Areas

DCHC MPO activities and emphasis areas for the FY21 UPWP are summarized as follow:

- Preparatory work on the development of the 2050 Metropolitan Transportation Plan (MTP)
- Development of the 2020-29 MTIP
- Continue work activities associated with SPOT6
- Continue to implement Fast Act Metropolitan Planning requirements
- Monitor ADA Transition Plan and Self-Assessment
- Update and monitoring of Title VI compliance
- Update and monitoring EJ and LEP
- Monitoring of Safety Targets
- Monitoring of State of Good Repair Targets
- Continuation of routine planning- TIP, UPWP, Data monitoring and monitoring system, GIS, Public Involvement, AQ, etc.
- Continuation of special and mandated projects and programs: transportation resilience planning, CTP update, safety/freight, modeling
- Continue to explore integrating big data into technical and modeling processes
- Exploration of tools for evaluating impacts of technology and autonomous/connected vehicles
- TRM V7 – Exploration and analysis of future direction
- TRM V6, maintenance, enhancement and update
- Asset Management Plan for all modes (required for all transit agencies), etc.
- TRM estimation year data tabulation (to be aligned and streamlined with CMP Data gathering and analysis efforts)
- Update 2045 MTP and process amendments as necessary and required
- Update and QC of base year data collection/inventory.
- Rolling (continuous ACS-style) surveys (household, transit onboard, cordon, etc.)
- Regional transit and implementation and update of County transit plans
- Congestion Management Process CMP- State of the System Report
- MPO-wide Mobility Report Card update
- Implementation of the Regional Freight Plan
- Continuation of the MPO website update, enhancement and application (portals) development
- Update and enhancement of the MPO geo-database enterprise
- Other 3-C planning process activities

Metropolitan Planning Factors & Federal Requirements

Federal transportation regulations require MPOs to consider specific planning factors when developing transportation plans and programs in the metropolitan area. Current legislation calls for MPOs to conduct planning that:

1. Supports the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increases the safety of the transportation system for motorized and non-motorized users;
3. Increases the security of the transportation system for motorized and non-motorized users;
4. Increases the accessibility and mobility of people and for freight;
5. Protects and enhances the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;

6. Enhances the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promotes efficient system management and operation;
8. Emphasizes the preservation of the existing transportation system.
9. Improves the resiliency and reliability of the transportation system and reduces or mitigates stormwater impacts of surface transportation; and
10. Enhances travel and tourism

In addition, livability principles are to be considered in the metropolitan planning process activities. These principles are:

- Provide more transportation choices
- Promote equitable, affordable housing
- Enhance economic competitiveness
- Support existing communities
- Coordinate policies and leverage investments, and
- Value communities and neighborhoods.

Each of these factors is addressed through various work program tasks discussed below.

Public Involvement and Title VI

Federal legislation requires MPOs to include provisions in the planning process to ensure the involvement of the public in the development of transportation plans and programs including the Metropolitan Transportation Plan, the short-term Transportation Improvement Program, and the annual Unified Planning Work Program. Emphasis is placed on broadening participation in transportation planning to include key stakeholders who have not traditionally been involved, including the business community, members of the public, community groups, and other governmental agencies. Effective public involvement will result in opportunities for the public to participate in the planning process.

Metropolitan Transportation Plan (MTP)

The MPO is responsible for developing a Metropolitan Transportation Plan (MTP) for a minimum of 20-year time horizon in cooperation with the State, MPO member agencies and with local transit operators. The MTP is produced through a planning process which involves the region's local governments, the North Carolina Department of Transportation (NCDOT), local jurisdictions and citizens of the region. Additionally, representatives from the local offices of the U.S. Department of Transportation (USDOT) Federal Highway Administration (FHWA) and Federal Transit Administration (FTA), North Carolina Department of Environmental Quality (NCDEQ) and the U.S. Environmental Protection Agency (US EPA) provide guidance and participate in the planning process. The MTP must include the following:

- Vision, Goals, and Objectives;
- Land use impacts;
- Identification and assessment of needs;
- Identification of transportation facilities (including major roadways, transit, multimodal and intermodal facilities and intermodal connectors) that function as an integrated metropolitan transportation system;
- A discussion of types of potential environmental mitigation activities and potential areas to carry out these activities;
- A financial plan that demonstrates how the adopted transportation plan can be implemented;
- Operations and management strategies to improve the performance of existing transportation facilities to relieve vehicular congestion and maximize the safety and mobility of people and goods;
- Capital investment and other strategies to preserve existing and projected future metropolitan transportation infrastructure and provide for multimodal capacity increases based on regional priorities

- and needs; and
- Proposed transportation and transit enhancement activities.

Transportation Improvement Program (TIP)

The DCHC MPO is responsible for developing a Transportation Improvement Program (TIP) with a ten-year time horizon in cooperation with the State, MPO member agencies, and local transit operators. The TIP is produced through a planning process which involves the region's local governments, the NCDOT, local jurisdictions and residents of the metropolitan area. The TIP must include the following:

- A list of proposed federally supported projects and strategies to be implemented during TIP period;
- Proactive public involvement process;
- A financial plan that demonstrates how the TIP can be implemented; and
- Descriptions of each project in the TIP.

Transportation Management Area (TMA)

TMA's, such as DCHC MPO, have urbanized area population over 200,000, and must also address the following: Plans must be based on a continuing and comprehensive transportation planning process carried out by the MPO in cooperation with the State and public transportation operators. A Congestion Management Process must be developed and implemented that provides for effective management and operation, based on a cooperatively developed and implemented metropolitan strategy of new and existing transportation facilities, through use of travel demand reduction and operations management strategies.

Air Quality Conformity Process

Currently, the DCHC MPO is designated as attainment for the National Ambient Air Quality Standards (NAAQS). On February 16, 2018, there was a decision from the D.C. Circuit Court in the South Coast Air Quality Management District v. EPA. Per the Circuit Court decision, The Raleigh-Durham-Chapel Hill area is considered an orphan maintenance area and based on the EPA guidance of November 2018, the area will need to demonstrate transportation conformity for transportation plans and TIPs for the 1997 ozone NAAQS. This conformity can be demonstrated without a regional emissions analysis (REA) pursuant to 40 CFR 93.109(c). Though not required, the Triangle region air quality partners have decided to continue to implement activities including an air quality regional analysis on its MTP and TIP. NCDOT and TJCOG will assist the MPOs in performing this REA on MTP projects.

FY2021 Emphasis Areas and Special Projects Descriptions

Special emphasis projects and new initiatives for the FY2021 UPWP are described below.

Triangle Regional Model (TRM) - Major Model Enhancement

DCHC MPO will continue to review and analyze travel demand and air quality models to determine feasible enhancements to the procedures that are used in the TRM area. DCHC MPO will continue to perform regional travel demand, and micro simulation model runs for existing and future projects. Upon completion of the TRM-V6, the TRM Service Bureau and regional stakeholders will commence revisions and enhancements to respond to the needs and policies of the DCHC MPO and other stakeholders. A first task will be to identify and select enhancements for implementation based on the needs of partners, including local governments, and on the feasibility and costs of desired enhancements. Enhancements within the DCHC MPO include; enhancing model precision for small area studies, improving non-motorized models, increasing sensitivity to travel demand management policies, network quality checks, improved transit ridership forecasting, incorporating tools for policy analysis and responding to policy questions, improving HOV/HOT tools and parking sensitivity enhancements. Additional technical enhancements have also been proposed relative to trip generation, destination choice and mode choice. Integrated land use and transportation modeling is

addressed in a separate item below. Specific activities to develop model enhancements include; staff time preparing and evaluating technical proposals for model revision and developing the model, negotiating the scope of enhancements with regional model partners (NCDOT, GoTriangle, CAMPO), consultant assistance in preparing technical specifications and in developing the model, and research and peer contact aimed at assessing the technical merits and operational challenges of the various modeling strategies that will be under consideration. The TRM is a regional project, and it is possible that some enhancements sought by DCHC MPO will not be included in the regional model plan, such as the enhancement of the non-motorized trip. In that case, additional activities may include developing extensions to the regional model to meet remaining policy needs of DCHC MPO.

Annual Continuous Travel Behavior Survey (Household Survey)

Work will continue on the tabulation and analysis of the household survey. Also, estimation of parameter using the household survey will be undertaken during this UPWP period. Due to the changing demographics of the region, the model stakeholders have decided to undertake annual (ACS style) continuous survey. This will improve the model by capturing changing travel behavior and patterns. The existing Triangle Regional Model was calibrated with Travel Behavior Survey (TBS) data collected in 2006. Since then, the region has undergone substantial development and demographic changes. While some of these changes are captured in updates to socio-economic data that is input to the model, including Census 2010, there is much more information from the 2006 survey that needs to be updated in order to prepare more accurate forecasts and also to meet the federal requirements for using the latest planning assumptions. The TBS will collect detailed information on personal and household travel patterns from approximately 2,000-3,000 households annually across the Triangle. The sample size for the DCHC MPO planning area will be based on the population. Information about trip purposes, mode choice, travel routes, time of day when travel is undertaken, response to road congestion, average trip distances and durations, and neighborhood and work destination characteristics will likely be gathered in these surveys.

In addition, the new TBS will allow better prediction of transit and non-motorized transportation. Despite the comprehensive character of the current TBS, it under-represents persons who travel by modes other than automobile. Consequently, in order to provide sufficient high-quality data to pursue the MPO's goal of understanding and increasing use of transit and non-motorized travel, the proposed budget includes a separate transit on-board survey bus riders, and surveys of bicycle and pedestrian activity and facilities. The benefit to the DCHC MPO will be a more accurate and reliable travel demand model that represents and captures local travel behavior and travel patterns.

Community Viz

The DCHC MPO and CAMPO will continue to update and enhance the Community Viz tool. The primary purpose of the project is to implement a partnering strategy and create a spatial data planning model framework and scenario planning tools using Community Viz software that will mimic development patterns and intensities and allocate future year socioeconomic data for the jurisdictions within the Triangle region. The model will be used by DCHC MPO staff to identify regional goals and community values, and explore alternatives for growth, development, and transportation investment. Results from the model will be used in developing the DCHC MPO's next socio-economic forecasts and Metropolitan Transportation Plan.

During FY2017, the DCHC MPO and CAMPO under the leadership of TJCOG joined together to update the first Community Viz0 scenario planning initiative called Connect 2045. That tool provided a platform for regional socio-economic projection and forecasting. Additionally, it provided an opportunity to explore and debate regional visions for growth, their trade-offs, and alternative development futures. Scenario planning tools, and specifically, Community Viz, will be used throughout the planning process to measure and evaluate the impacts of competing development scenarios and major investments in the

regional transportation system. Results of the scenario planning initiative will be the update and refinement of socio-economic forecasts.

Data Collection and Data Management

The MPO is required by federal regulations and the 3C process to perform continuous data monitoring and maintenance. A number of transportation and traffic conditions will be continuously surveyed and compiled annually to feed into various MPO technical analyses such as modeling, Metropolitan Transportation Plan update, Congestion Management Process, project development, Title VI planning, EJ/LEP demographic profiles, TIP, project prioritization, etc. The following data collection and monitoring tasks will be conducted during this UPWP period:

- 48 hour traffic volume –hourly, bi-directional, classified and 85th percentile speed;
- Turning Movement Count during AM, Noon and PM peak periods for cars, trucks, bikes and pedestrians;
- INRIX and HERE data
- Travel time and speed survey; and
- Pedestrian and bicycle counts at mid-block and intersections (peak counts and 12-hour counts).
- Crash and safety data
- Transit APC
- Transportation Performance Measures
- Transit Performance Targets data

Transportation models, Congestion Management Programs, federally mandated performance management/targets, and prioritization are critically dependent on comprehensive, detailed, high-quality input data. In the past, such data have been gathered through an ad-hoc, short-term work effort, and have been used to produce model output for multiple years. As the region grows toward more sophisticated models and, as NCDOT and FHWA move toward detailed data-driven processes, it becomes increasingly desirable to undertake comprehensive and systematic data collection and management for the MPO. The on-going MPO data management program is intended to link the model's input directly to existing databases. More broadly, it is proposed to integrate these external data with existing and new geographic information so that they can be overlaid easily with transportation improvement projects, thoroughfare and corridor plans, updated street centerline locations and other information that will assist policy makers and the public to envision the impact of proposed projects and policies. Specific products to be output by staff and/or consultants include; design of work flow processes and data access strategies to support routine access to relevant information, continued design and update of a centralized database for information that will be used by transportation and land use models, development of presentation tools for the data (using ArcGIS Online), and adjustment of the travel demand model so that it can use directly such detailed data.

Intelligent Transportation System - The purpose of this task is to develop, maintain and enhance regional Intelligent Transportation System (ITS) activities to improve efficiency of the transportation network, public transit, emergency response, safety and security in the Capital Region. DCHC MPO will continue to update and maintain the regional ITS architecture, and coordinate with various stakeholders to ensure that ITS technologies are deployed in manner that will allow for communication, interoperability, and compatibility amongst various regional systems and entities.

Title VI Planning - The purpose of this task is to ensure that no person will, on the grounds of race, color, national origin, income, gender, age, and disability, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Restoration Act of 1987 (PL 100.259), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. DCHC MPO will continue to monitor the Title VI program and implement Title VI Assurance.

Safety and Security Planning - The purpose of this task is to reduce the human and economic toll on the region's multi-modal transportation system due to traffic crashes through collaboration and an integrated Vision Zero approach including engineering, enforcement, education and emergency response. DCHC MPO will continue to analyze safety data and collaborate with NCDOT and regional safety stakeholders to monitor safety programs and continually revise and refine the planning process.

Land Use, Socio-Economic, Environmental - The purpose of this task is to collect, maintain and analyze regional land use, socio-economic and environmental data to be used in regional demographic forecasting, transportation planning, land use planning, air quality planning, emergency planning, Title VI and economic development efforts. The MPO will continue to provide input to member jurisdictions in the development of local comprehensive plans, and provide guidance to NCDOT Project Development/ NEPA on land use and zoning issues affecting project development and merger process.

Metropolitan Transportation Plan Reappraisal - This task addresses periodic reviews, changes, and progress on the long range planning process to foster livable and sustainable communities and transportation systems in the DCHC MPO area as required by FAST Act and the previous legislation.

Special Studies – The Town of Hillsborough will undertake a feasibility study for potential new public road connecting Eno Mountain Road and NC 86. Chatham County will undertake a bicycle and pedestrian planning study.

FY2021 UPWP Funding Sources

FY2021 UPWP funding levels and descriptions of funding sources are summarized below.

Federal Highway Administration Funds (FHWA)

Planning (PL) Section 104(f) – These urbanized area funds are administered by NCDOT and require a 20% local match. The proposed Section 104(f) funding level is based on the FAST-ACT Section 104(f) allocation. The statewide section 104(f) funds are distributed among all MPOs with a population-based formula. The DCHC MPO PL fund allocation for FY2021 is below.

	MPO Total
Federal PL funds (80%)	\$ 353,101
Local match (20%)	\$ 88,275
Total PL Funds	\$ 441,376

STBG-DA – These funds are the portion of the federal Surface Transportation Block Grant Program (STBG-DA) funds provided through FHWA to Transportation Management Areas (TMAs) over 200,000 in population. By agreement with the DCHC MPO and NCDOT, a portion of these funds are used for MPO transportation planning activities. STBG-DA funds proposed for planning activities are below:

	MPO Total
Federal STBG-DA funds (80%)	\$ 1,941,069
Local match (20%)	\$485,267
Total STBG-DA Funds	\$ 2,426,336

Federal Transit Administration (FTA) Funds

Two types of funds are used for transit planning purposes by the DCHC MPO; Section 5303 Metropolitan Transportation Planning Program and Section 5307 Urbanized Area Formula Program funds administered by the Federal Transit Administration (FTA) and the NCDOT Public Transportation Division (PTD).

Section 5303 funds provide assistance to urbanized areas for transit planning and technical studies related to urban public transportation. They are provided from the FTA through the PTD to the MPO local transit operators and LPA (80% from FTA, 10% from PTD, and 10% local match).

Section 5303	CHT	GoDurham	LPA	MPO Total
Federal (80%)	\$ 137,200	\$ 142,800	\$ 82,440	\$ 362,440
State (10%)	\$ 17,150	\$ 17,850	\$ 10,305	\$ 45,305
Local (10%)	\$ 17,150	\$ 17,850	\$ 10,305	\$ 45,305
Total Section 5303	\$ 171,500	\$ 178,500	\$ 103,050	\$ 453,050

Section 5307 funds may be used for planning as well as other purposes, and are distributed through a formula by FTA. GoDurham, CHT, OPT and GoTriangle are eligible to use Section 5307 funds from the FTA for assistance on a wide range of planning activities. These funds require a 20% local match, which is provided by the City of Durham, the Town of Chapel Hill, Orange County and GoTriangle. The table below includes the agencies that will program Section 5307 funds for planning purposes in this UPWP.

Section 5307	GoDurham	GoTriangle	MPO Total
Federal (80%)	\$ 247,856	\$ 290,000	\$ 537,856
Local (20%)	\$ 61,964	\$ 72,500	\$ 134,464
Total Section 5307	\$ 309,820	\$ 362,500	\$ 672,320

Summary of all Funding Sources

	Federal	State	Local	Total
PL/STBG-DA (FHWA)	\$ 2,294,170		\$ 573,543	\$ 2,867,713
FTA 5303 (FTA)	\$ 362,440	\$ 45,305	\$ 45,305	\$ 453,050
FTA 5307 (FTA)	\$ 537,856		\$ 134,464	\$ 672,320
Total	\$ 3,194,466	\$ 45,305	\$ 753,312	\$ 3,993,083

Summary of Federal Funding (80%) by Agency (This table includes only those jurisdictions that programmed funds for planning in this UPWP.)

	FHWA	FTA Transit Planning		
Agency	Planning	5303	5307	Total
Lead Planning Agency	\$ 1,753,101	\$ 82,440		\$ 1,835,541
Town of Carrboro	\$ 24,320			\$ 24,320
Town of Chapel Hill	\$ 90,243	\$ 137,200		\$ 227,443
City of Durham	\$ 69,182			\$ 69,182
Town of Hillsborough	\$ 160,000			\$ 160,000
Chatham County	\$ 87,488			\$ 87,488
Durham County	\$ 44,836			\$ 44,836
GoDurham		\$ 142,800	\$ 247,856	\$ 390,656
GoTriangle			\$ 290,000	\$ 290,000
TJCOG	\$ 65,000			\$ 65,000
Total	\$ 2,294,170	\$ 362,440	\$ 537,856	\$ 3,194,466

LPA Local Match Cost Sharing

To receive the aforementioned federal funds through FHWA, a local match of twenty percent (20%) of the total project cost must be provided. The MPO member agencies contribute to the Lead Planning Agency 20% local match. Each MPO's member agencies' proportionate share of the local match is determined on an annual basis during the development of the UPWP. The following table displays the MPO's member agencies' proportionate share of the local match for FY2021. The local match shares for member jurisdictions referenced below were determined using population and number of data collection locations/segments. GoTriangle is 7.5% of the total MPO match required for local share of federal funds minus ITRE and data collection expenses and is based on average annual percentage of funds received including 5307 and STBG-DA.

Agency	Total FY2021
Durham City	\$233,781
Durham County	\$40,225
Chapel Hill	\$58,599
Carrboro	\$20,050
Hillsborough	\$6,232
Orange County	\$35,019
Chatham County	\$14,498
GoTriangle	\$29,871
Total	\$438,275

Certification of MPO Transportation Planning Process

As part of the annual UPWP adoption process, the MPO is required to certify that it adheres to a transportation planning process that is continuous, cooperative, and comprehensive (ie. the 3-C planning process). The certification resolution is included as part of this work program.

Summary of FY2019 UPWP Accomplishments

The main emphases of the FY2019 UPWP were the development of the Comprehensive Transportation Plan, model enhancement, calibration and validation of the Triangle Regional Model, the update of the MPO GIS enterprise, Congestion Management Process, development of an interactive Mobility Report Card, MPO data collection and analysis, update of the MPO Data Management System, evaluation of performance indicators, update of Community Viz Land-use Scenario, State and regional coordination, collaboration on the regional transit activities, and Orange and Durham County transit initiatives. The MPO continued to fulfill State and Federal transportation mandates including the 3-C transportation process, UPWP planning, SPOT/STI prioritization, Title VI/EJ/LEP, visualization, administration, management and oversight of grants, etc. The MPO made significant progress in these areas. Major milestones and accomplishments are summarized as follows:

Coordinated Public Transit Human Services - The DCHC MPO continued to address the Coordinated Public Transit Human Services Transportation Plan as required by FAST Act and foster coordination and communication among all transit providers in the region. Staff continued to meet and coordinate with the human services agencies that provide or have clients that need transportation services in the MPO, collect information on transportation services, and maintain the metropolitan transportation coordination plan.

Routine MPO Planning Progress and UPWP - The MPO continued to address routine periodic reviews, changes, and progress on the short-range planning process and changes to the Unified Planning Work Program (UPWP) as required by FAST Act and previous legislation. DCHC MPO will continue to conduct short range transportation and transportation planning activities, and coordinate with necessary local, regional and state agencies to conduct and track transportation projects in the DCHC MPO.

Non-Motorized Planning and Complete Streets – DCHC MPO continued to develop, support and promote plans and projects that increase and improve bicycling and walking facilities, improve safety and security of vulnerable roadway users, and create alternative transportation mode choices for all travelers. DCHC MPO continued to prepare and evaluate transportation plans so that bicycle and pedestrian facilities are integrated wherever practicable, into the network.

Maintain Clean Air (attainment) – DCHC MPO continued to protect and enhance the environment, and promote consistency between transportation improvements, and state and local planned growth and economic development patterns. DCHC MPO continued to monitor the transportation planning activities and ensure that such activities do not deteriorate the air quality in the region.

Intelligent Transportation System - The purpose of this task is to develop, maintain and enhance regional Intelligent Transportation System (ITS) activities to improve efficiency of the transportation network, public transit, emergency response, and safety and security in the region. DCHC MPO continued to update and maintain the regional ITS architecture, and coordinate with stakeholders to ensure that ITS technologies are deployed in a manner to allow communication, interoperability, and compatibility amongst various regional systems and entities.

Title VI Planning - The MPO continued to monitor and implement the MPO Title VI Assurance which ensures that no person will, on the grounds of race, color, national origin, income, gender, age, and disability, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Restoration Act of 1987 (PL 100.259), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity.

Americans with Disabilities Act (ADA) Transition Plan & Self-Assessment - The MPO continued to monitor and implement the MPO's ADA Transition Plan and Self-Assessment

Model Enhancement – DCHC MPO continued to review and analyze existing travel demand and air quality models in order to determine feasible enhancements to the modeling procedures that are used in the TRM study area. DCHC MPO continued to perform air quality, regional travel demand, and micro simulation model runs for existing and future projects as requested and needed.

Safety and Security Planning - The MPO, through its planning activities, continued to strive to reduce the human and economic toll on the region's multi-modal transportation system due to traffic crashes through widespread collaboration and an integrated Vision Zero and Traffic Incident Management (TIM) program with an Engineering, Enforcement, Education and Emergency Response approach. DCHC MPO continued to analyze safety data and collaborate with regional safety stakeholders to keep them engaged in the routine monitoring of safety programs, and the revision and refinement of the planning process.

Metropolitan Transportation Plan (MTP)- MTP and CTP are the centerpiece of the metropolitan transportation planning process. DCHC MPO has developed a number of Metropolitan Transportation Plans since ISTEA. In the summer of 2018, the MPO approved 2045 MTP, the region's current MTP which is built around the vision of a sustainable metropolitan area, and promotes the identification of

and investment in nodes and corridors of activity as well as fostering of active transportation and public transportation. Also, 2045 MTP articulates a broad set of region-wide transportation goals, policies and strategies that address transportation's role in areas such as place-making, public health, and energy use. The plan is financially constrained, reflecting only funding that is currently available or can reasonably be expected to be available during the plan's time frame, and it identifies major transportation investments through the year 2045. The plan also was assessed for and meets environmental justice requirements to ensure equitable investments are planned for the region. In addition, DCHC MPO determined that the plan conformed to the applicable state implementation plan (SIP) for air quality through a voluntary conformity process. The MTP must be completely updated at least every four years, but may be revised more frequently if necessary. DCHC MPO anticipates the next major update of the MTP will commence in 2020.

Development of Comprehensive Transportation Planning and Programs – DCHC MPO continued to evaluate, support, analyze and implement multi-modal transportation plans and programs that foster accessibility, mobility, safety and other FAST Act planning factors. DCHC MPO continued to coordinate with local governments and various transportation stakeholders to develop and promote new programs that will foster better multi-modal transportation options.

MPO Data Development and Maintenance - The MPO continued to collect, tabulate, maintain, and analyze regional information on topics including, but not limited to, census, land use, and related data that is needed for regional demographic forecasting, transportation and land use planning, air quality planning, TRM estimation, calibration and validation, CMP, MRC, transit planning, bike/pedestrian planning, emergency planning, Title VI, and economic development efforts.

Land Use, Socio-Economic, Environmental – DCHC MPO continued to collect, maintain and analyze regional land use, socio-economic and environmental data that will be used in regional demographic forecasting, transportation and land use planning, air quality planning, emergency planning, Title VI, and economic development efforts. DCHC MPO continued to participate, and provide input to NCDOT, in the development of local comprehensive plans, and provide guidance to NEPA/Merger/projected development on land use and zoning issues.

Transportation Plan Reappraisal – DCHC MPO continued to address periodic reviews, changes, and progress on the long range planning process to foster livable and sustainable communities and transportation systems in the planning area as required by FAST Act and the previous legislations.

Technical Assistance – DCHC MPO continued to perform service requests as well as utilize the expertise and knowledge of the staff in providing technical support services to local governments and interested citizens on transportation planning and other requests that support the planning factors in FAST Act and the previous legislation. This includes coordinating with public transit providers and local units of government in the region to create a regionally seamless transit system that improves accessibility and mobility for all citizens.

Travel Demand Management – Triangle J Council of Governments (TJCOG) on behalf of DCHC MPO continued to implement Travel Demand Management (TDM) strategies to influence individual travel behavior and provide expanded options to reduce the actual demand, or number of vehicles, placed on transportation facilities, and incorporate practices that focus on managing the demand side of the transportation equation rather than increasing supply by widening or building new roads. Progress continued to be made on reduction of peak VMT around the Research Triangle Park employee commute options, and Best Employer for Commute programs.

Regional SHSP Implementation – DCHC MPO continued to work to create a Regional Transportation Safety Coalition with the aim of reducing crashes on major roadways through widespread collaboration and an integrated approach including engineering, education, enforcement and emergency services. DCHC MPO continued to coordinate with the stakeholders and implement action items in the TIMS Plan to achieve the goal of reducing the number of fatalities within the MPO by half by the year 2045, and ultimately the vision of Destination Zero Deaths.

Additional accomplishments for the FY 2019 UPWP are summarized as follows:

1. The MPO Administration program element focuses on all aspects of the MPO's personnel management, governing board support and meeting coordination, budgeting, policy development and review, annual work program development and reporting, and otherwise meeting all state and federal requirements for planning program administration. Most tasks are routine and ongoing in nature including Congestion Management Process (CMP) Comprehensive Transportation plan (CTP), Metropolitan Transportation Plan (MTP), SPOT Prioritization, data collection and analysis, development and maintenance of spatial GIS portals, Incident Management plan, update of ADA Transition Plan, enhancement and update of the regional model, development of County Transit Plans and LRT, etc.
2. Data management activity included collecting, analyzing, maintaining and reporting activities necessary to support the transportation planning process and work program. Various data is captured, processed and subsequently used to identify transportation issues, propose solutions, and monitor activity.
3. Trends and Big Data. All data maintained by the MPO is accessible to member agencies and the public. Certain tasks are associated with technical tools and functions necessary to support analytical work and forecasting, including computer hardware and software and licenses for travel demand modeling and traffic operations microsimulation, and for electronic hardware used in various types of traffic counting.
4. Development of the DCHC-MPO Comprehensive Transportation Plan (CTP): The LPA and NCDOT Transportation Planning Branch worked cooperatively in the update and maintenance of the. CTP is mandated by NC General Statute. It differs from the federally mandated Metropolitan Transportation Plan (MTP) in that it is not fiscally constrained and does not have a horizon year. CTP was mutually adopted by the MPO Board and the Board of Transportation. Staff continued to re-evaluate modal elements of the CTP as well ensure that SPOT projects emanate from MTP and CTP.
5. 2045 Metropolitan Transportation Plan (MTP): MPO continued to re-evaluate of the 2045 as well as initiated MTP amendments. Further, the MPO embarked on the air quality conformity analysis and determination due to court that required them to perform activities under the 1997 1-hour Ozone standard. Other 2045 MTP accomplishments include: reconciling MTP projects with TIP. Processing amendment 1 as required and performing Moves modeling and generating travel demand forecasts. etc.
6. MPO Congestion Management Process (CMP): The MPO continued work on the update, analyses and mapping associated with the development of the federally required CMP. Tasks accomplished include summarization and analysis of data, measurement of multi-modal transportation system performance, and implementation of CMP mapping in an interactive GIS.

7. **MPO Mobility Report Card (MRC):** Staff continued to measure and monitor multi-modal transportation system performance. Other accomplishments included a state-of-the-system report that focuses on measures of system performance for which data collected on an annual basis is used to index overall performance of the MPO transportation system from year to year. Data reported included, arterial LOS, intersection LOS, transit services, bicycle facilities, sidewalks, safety, etc.
8. **Regional Freight Plan:** Staff continued to serve as the project manager for the development of the Triangle Regional Freight Plan, addressed comments from the MPO Board and member agencies, and coordinated with CAMPO, NCDOT and freight logistic companies.
9. **Public Involvement Process:** Continued to provide the public with complete information, timely notice, and full access to key decisions and opportunities for early and continuing involvement in the 3C process. Also, continued to assess the effectiveness of the DCHC MPO Public Involvement Process and to develop and enhance the process of regional involvement supporting the objectives of the DCHC MPO Public Involvement Policy (PIP) and federal regulations (such as FAST-Act). Staff continued to explore, and apply new and innovative approaches to improve MPO public participation levels and opportunities, especially for plans and programs using social media; Facebook and Twitter. Continued to oversee the update and the maintenance of the MPO website, including update and enhancement of portals, update of CivicaSoft website system application, and update of content management systems. Continued to provide management support for the MPO visualization such as reviewing current AGOL, land-use 3-D, Urban-canvas, MS2 portals and web servers, and suggested updates and enhancements.
10. **Safety Analysis:** The MPO completed analyses related to bike and pedestrian safety, transit safety, and vehicular safety. Other safety related accomplishments included participating in North Carolina safety education initiatives and regional bike and pedestrian safety programs. The MPO reviewed the Safety and Security plans of MPO transit operators.
11. **Environmental Justice/Title VI:** The MPO continued to update and implement EJ and Title VI program, including update of demographic profiles and incorporation of FHWA comments. Draft report is near complete.
12. **Transportation Improvement Program (TIP):** The MPO continued to work on TIP-related activities such as SPOT, review of projects, Local Supplement of the STIP, and the development of the draft Transportation Program (TIP).
13. **Amendments and Administrative Modifications to the TIP:** The MPO processed several amendments and administrative modifications to the 2018-27 MTIP and forwarded to NCDOT to be included in the STIP for BOT approval.
14. **Triangle Regional Model (TRM) Update and Enhancement:** The MPO continued to participate in the update and enhancement of the TRM at ITRE. Work tasks accomplished included completion of generation, destination choice and mode choice models, calibration and the validation of 2013 Estimation Year TRM-V6. The MPO is a funding partner of the modeling service bureau and continued to provide .5 FTE to ITRE Model Service Bureau.
15. **Bicycle lane restriping.** The MPO continued to work with NCDOT Division 5 and Division 7 regarding priorities and plans for restriping roadways scheduled for resurfacing by NCDOT.

16. Other Project Development Planning and NEPA: The MPO continued to participate in project development planning and NEPA for several on-going NCDOT projects within the MPO including; I-40 Managed Lanes Feasibility Study, US 15-501 Corridor Study, US 15-1501 Feasibility Study, Infinity-Latta intersection, NC54 widening project planning, I-40 widening (US15-501 to I-85), several bridge replacement projects, resurfacing projects, etc.
17. Oversight, Monitoring and Administration of Transit Grants: The MPO continued to manage the transit grant program including processing reimbursements for sub-recipients and the LPA, reporting activity to funding agencies, and providing general administration and oversight.
18. Service Requests: Staff performed numerous services requests from the public and member agencies.
19. Management and Operations: Staff continued routine tasks that encompass the administration and support of the 3-C transportation planning process as mandated by federal regulations, Tasks have been divided into the following sub- tasks including, but not limited to:
 - Provided liaisons between DCHC MPO member agencies, transit providers, GoTriangle, CAMPO, NCDOT, NCDEQ, TJCOG, RDU and other organizations at the local, regional, state, and federal levels on transportation-related matters, issues and actions.
 - Provided technical assistance to the MPO Board, member agencies, stakeholders and citizens and other member jurisdictions policy bodies.
 - Participated in joint regional technical meetings as a means to continually improve the quality and operation of the transportation planning process and decision making in the region.
 - Reviewed and commented on federal and state transportation-related plans, programs, regulations and guidelines, including review of Notice of Proposed Rule Making (NPRM), federal register and literature review of new transportation planning procedures.
 - Provided assistance to the MPO Board and Technical Committee with meeting preparation, development of agenda and minutes, follow-up to directives to staff, and support of the agenda management system.
 - Updated and provided support for MPO planning documents as required.
 - Administration and oversight of contracts and fiscal management.
20. Assisted with the compliance of federal and state regulations and mandates.
21. Performed various supervisory duties.

Town of Carrboro UPWP Accomplishments

The Town of Carrboro performed substantial planning work on a range of activities under the DCHC-MPO 2019 Unified Planning Work Program. Town staff worked on projects as part of MPO-wide planning efforts, as well as numerous projects specific to the Town of Carrboro. The Town of Carrboro conducted 48-hr vehicle & 2-hr bike/ped counts at a variety of locations in support of local traffic calming

projects, worked with a consultant to update our 2009 Bicycle Plan, coordinated with Chapel Hill Transit on their Short Range Transit Plan, and participated in regional planning studies including the NC 54 West Corridor Study, the NC 54 Bike-Ped Safety Study, and NCDOT managed TIP projects. Greenway projects which receive funding through the MPO are progressing: the Jones Creek Greenway has passed 60% design and the Morgan Creek Greenway has been advertised for construction. The Town of Carrboro also continues to participate in regional transit planning as part of the Orange County Transit Plan update.

City of Durham Accomplishments

The City of Durham conducted and participated in a number of transportation planning activities: passed an ordinance to regulate shared active transportation vehicles (bike share, electric bikes, scooters, etc.), along with beginning operation and administration of this system, advanced design on several federally-funded sidewalk and bicycle lane projects on streets such as Cornwallis Road, Hillandale Road, Carpenter-Fletcher Road, LaSalle Street, and North Duke Street, continued design on several CMAQ-funded projects including Downtown Wayfinding, Durham Bike Lanes, and Neighborhood Bike Routes, and began the process of and conducted extensive public engagement for the Central Durham Transportation Study (also called Move Durham). The City also participated in regional planning efforts, including the 15-501 Corridor Study, the Durham-Wake Commuter Rail Major Investment Study, and various NCDOT managed TIP projects along NC 54, US 15-501, US 70, Fayetteville Road, Cornwallis Road, and the East Durham Railroad Safety Project. The City worked with other departments to purchase the right-of-way necessary to begin development of the Durham Beltline Trail, and is also working with regional partners to update the Durham County Transit Plan and look for high capacity transit alternatives along major corridors.

Durham County Accomplishments

Durham County staff continued development of a station area plan for the Patterson Place Compact Neighborhood for land use, transportation, and critical infrastructure. County staff also participated in the engineering phase of the DO-LRT project until its discontinuation in March, as well as the Wake-Durham Commuter Rail MIS. The County serves as a voting member of the County Transit Plan Staff Working Group.

The County was active in many community impact assessments, scoping projects, traffic study, environmental planning, and other concurrence processes for several TIP projects in the area, including U-5774 (NC 54 widening), U-6021 (Fayetteville Street widening), B-5512 (Kemp Road bridge replacement), P-5706 (Railroad Grade Separation at Ellis, Wrenn, and Glover Roads), U-5518 (US 70 improvements in Wake County), and U-5720 (US 70 improvements in Durham County) and the 15-501 Corridor Study.

Town of Chapel Hill Accomplishments

The Town of Chapel Hill conducted a number of transportation planning activities: implemented a semi-annual bike-ped count reporting system, created a quarterly report on bike-ped-transit metrics and associated workplan, advanced design work on current TIP projects, and created a Short Range Transit Plan for Chapel Hill Transit. The Town also participated in regional planning efforts, including the 15-501 Corridor Study, the NC 54 Pedestrian Safety Study, and various NCDOT managed TIP projects – NC 54 and 15-501 Corridor Improvements and the I-40/NC 86 interchange upgrades. The Town is working with regional partners to update the Orange County Transit Plan and look for high capacity transit alternatives along major corridors.

Development Schedule

The proposed development schedule for this UPWP is below. The schedule provides for the coordination of the UPWP development with the local government budget process and NCDOT deadlines.

Dates	DCHC MPO Activity Description
October -December 2019	Development of draft FY2021 UPWP and coordination with local agencies.
November 1, 2019	Deadline for funding request and supplemental documents to be submitted to MPO by member agencies.
December 18, 2019	TC reviews draft FY2021 UPWP and recommends Board release for public comment.
January 15, 2020	MPO Board reviews draft of FY2021 UPWP and releases draft for public comment.
January 22, 2020	TC receives draft of FY2021 UPWP and recommends Board hold public hearing and approve draft at February Board meeting.
January 31, 2020	Draft FY2021 UPWP submitted to NCDOT/PTD
February 12, 2020	MPO Board holds public hearing and approves draft FY2021 UPWP including approval of self-certification process and local match.
March 31, 2020	Deadline for final FY2021 UPWP to be submitted to NCDOT and FHWA for approval. NCDOT/PTD will submit UPWP to FTA for approval.

MPO Funding Table - Distribution by Agency

Receiving Agency	STBGP			Section 104(f)			Section 5303				Section 5307				Funding Summary			
	Sec. 133(b)(3)(7)			PL			Highway/Transit				Transit							
	Local	FHWA	80%	Local	FHWA	80%	Local	NCDOT	FTA	80%	Local	NCDOT	FTA	80%	Local	NCDOT	Federal	Total
LPA	\$350,000	\$1,400,000		\$88,275	\$353,101		\$10,305	\$10,305	\$82,440		\$0	\$0	\$0		\$448,580	\$10,305	\$1,835,541	\$2,294,426
Carboro	\$6,080	\$24,320		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$6,080	\$0	\$24,320	\$30,400
Chapel Hill/CHT	\$22,561	\$90,244		\$0	\$0		\$17,150	\$17,150	\$137,200		\$0	\$0	\$0		\$39,711	\$17,150	\$227,444	\$284,304
Chatham County	\$21,872	\$87,488		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$21,872	\$0	\$87,488	\$109,360
Durham/GoDurha	\$17,296	\$69,182		\$0	\$0		\$17,850	\$17,850	\$142,800		\$0	\$0	\$247,856		\$97,110	\$17,850	\$459,838	\$574,798
Durham County	\$11,209	\$44,836		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$11,209	\$0	\$44,836	\$56,045
Hillsborough	\$40,000	\$160,000		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$40,000	\$0	\$160,000	\$200,000
Orange County	\$0	\$0		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0	\$0
TJCOG	\$16,250	\$65,000		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$16,250	\$0	\$65,000	\$81,250
GoTriangle	\$0	\$0		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$290,000		\$72,500	\$0	\$290,000	\$362,500
NCDOT	\$0	\$0		\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0		\$0	\$0	\$0	\$0
Totals	\$485,268	\$1,941,070		\$88,275	\$353,101		\$45,305	\$45,305	\$362,440		\$134,464	\$0	\$537,856		\$753,312	\$45,305	\$3,194,467	\$3,993,083

MPO Wide - Detail Funding Tables - All Funding Sources

Task Description	STBGP 133(b)(3)(7)			Sec. 104(f) PL			Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary		
	Local 20%	FHWA 80%		Local 20%	FHWA 80%		Local 10%	NCDOT 10%	FTA 80%	Local 20%	NCDOT 0	FTA 80%	Local	NCDOT	Federal
II-A Surveillance of Change															
1 Traffic Volume Counts	20,341	81,362	1,000	4,000	4,000	0	0	0	0	0	0	0	21,341	-	85,362
2 Vehicle Miles of Travel	800	3,200	400	1,600	1,600	0	0	0	0	0	0	0	1,200	-	4,800
3 Street System Changes	1,000	4,000	1,120	4,480	4,480	0	0	0	0	0	0	0	2,120	-	8,480
4 Traffic Crashes	4,776	19,104	1,080	4,320	4,320	0	0	0	0	0	0	0	5,856	-	23,424
5 Transit System Data	3,200	12,800	1,200	4,800	4,800	8,946	8,946	8,946	71,568	11,084	0	44,336	24,430	8,946	133,504
6 Dwelling Unit, Pop. & Emp. Change	8,100	32,400	5,000	20,000	20,000	0	0	0	0	0	0	0	13,100	-	52,400
7 Air Travel	4,000	16,000	100	400	400	0	0	0	0	0	0	0	4,100	-	16,400
8 Vehicle Occupancy Rates	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-
9 Travel Time Studies	14,260	57,040	1,800	7,200	7,200	0	0	0	0	0	0	0	16,060	-	64,240
10 Mapping	17,555	70,221	4,800	19,200	19,200	3,122	3,122	3,122	24,976	0	0	0	25,477	3,122	114,397
11 Central Area Parking Inventory	2,320	9,282	400	1,600	1,600	0	0	0	0	0	0	0	2,720	-	10,882
12 Bike & Ped. Facilities Inventory	1,708	6,832	1,000	4,000	4,000	0	0	0	0	0	0	0	2,078	-	8,832
13 Bike & Ped. Counts	11,840	47,360	1,000	4,000	4,000	856	856	856	6,848	0	0	0	13,696	856	58,208
II-B Long Range Transp. Plan (MTP)															
1 Collection of Base Year Data	7,340	29,360	0	0	0	288	288	288	2,304	0	0	0	7,628	288	31,664
2 Collection of Network Data	4,120	16,480	800	3,200	3,200	0	0	0	0	0	0	0	4,920	-	19,680
3 Travel Model Updates	72,080	288,320	4,072	16,288	16,288	0	0	0	0	27,500	0	110,000	103,652	-	414,608
4 Travel Surveys	9,000	36,000	3,060	12,240	12,240	0	0	0	0	0	0	0	12,060	-	48,240
5 Forecast of Data to Horizon year	526	2,104	240	960	960	0	0	0	0	0	0	0	766	-	3,064
6 Community Goals & Objectives	360	1,440	1,330	5,320	5,320	0	0	0	0	0	0	0	1,690	-	6,760
7 Forecast of Future Travel Patterns	1,920	7,680	1,100	4,400	4,400	0	0	0	0	0	0	0	3,020	-	12,080
8 Capacity Deficiency Analysis	5,352	21,408	2,400	9,600	9,600	0	0	0	0	0	0	0	7,752	-	31,008
9 Highway Element of the MTP	9,561	38,243	3,800	15,200	15,200	0	0	0	0	0	0	0	13,361	-	53,443
10 Transit Element of the MTP	16,764	67,054	3,800	15,200	15,200	979	979	979	7,832	1,016	0	4,064	22,559	979	94,150
11 Bicycle & Ped. Element of the MTP	9,065	36,259	2,878	11,512	11,512	0	0	0	0	0	0	0	11,943	-	47,771
12 Airport/Air Travel Element of MTP	1,120	4,480	200	800	800	0	0	0	0	0	0	0	1,320	-	5,280
13 Collector Street Element of MTP	1,794	7,176	600	2,400	2,400	0	0	0	0	0	0	0	2,394	-	9,576
14 Rail, Water or other mode of MTP	7,320	29,280	0	0	0	0	0	0	0	0	0	0	7,320	-	29,280
15 Freight Movement/Mobility Planning	3,540	14,160	200	800	800	0	0	0	0	0	0	0	3,740	-	14,960
16 Financial Planning	2,214	8,858	480	1,920	1,920	1,146	1,146	1,146	9,168	19,668	0	78,672	23,508	1,146	98,618
17 Congestion Management Strategies	19,118	76,470	1,139	4,555	4,555	952	952	952	7,616	0	0	0	21,208	952	88,642
18 Air Qual. Planning/Conformity Anal.	1,960	7,840	1,600	6,400	6,400	0	0	0	0	0	0	0	3,560	-	14,240
II-C Short Range Transit Planning															
1 Short Range Transit Planning	300	1,200	0	0	0	13,403	13,403	13,403	107,224	21,124	0	84,496	34,827	13,403	192,920
II-A Planning Work Program															
1 Planning Work Program	8,044	32,178	4,006	16,024	16,024	488	488	488	3,904	0	0	0	12,538	488	52,106
II-B Transp. Improvement Plan															
1 TIP	18,263	73,052	5,661	22,645	22,645	3,492	3,492	3,492	27,936	2,036	0	8,144	29,452	3,492	131,777
II-C Cvl Rgts. Cmp./Otr. Reg. Reqs.															
1 Title VI	2,654	10,616	1,000	4,000	4,000	326	326	326	2,608	736	0	2,944	4,716	326	20,168
2 Environmental Justice	5,800	23,200	1,640	6,560	6,560	0	0	0	0	0	0	0	7,440	-	29,760
3 Minority Business Enterprise	2,380	9,520	400	1,600	1,600	0	0	0	0	0	0	0	11,120	-	13,900
4 Planning for the Elderly & Disabled	1,746	6,984	400	1,600	1,600	240	240	240	1,920	0	0	0	2,386	240	10,504
5 Safety/Drug Control Planning	5,340	21,360	1,600	6,400	6,400	0	0	0	0	0	0	0	6,940	-	27,760
6 Public Involvement	31,135	124,541	3,769	15,077	15,077	932	932	932	7,456	1,972	0	7,888	37,808	932	154,962
7 Private Sector Participation	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-
II-D Incidental Png./Project Dev.															
1 Transportation Enhancement Png.	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-
2 Enviro. Analysis & Pre-TIP Png.	7,362	29,446	2,600	10,400	10,400	0	0	0	0	0	0	0	9,962	-	39,846
3 Special Studies	72,299	289,194	4,600	18,400	18,400	1,624	1,624	1,624	12,992	45,000	0	180,000	123,523	1,624	500,586
4 Regional or Statewide Planning	23,985	95,942	3,600	14,400	14,400	1,680	1,680	1,680	13,440	0	0	0	29,265	1,680	123,782
II-E Management & Operations															
1 Management & Operations	42,906	171,624	12,400	49,600	49,600	6,831	6,831	6,831	54,648	4,328	0	17,312	66,465	6,831	293,184
Totals	\$485,267	\$1,941,070	\$88,275	\$353,101	\$353,101	\$45,305	\$45,305	\$45,305	\$362,440	\$134,464	\$0	\$553,785	\$753,312	\$45,305	\$3,194,466
															\$3,993,083

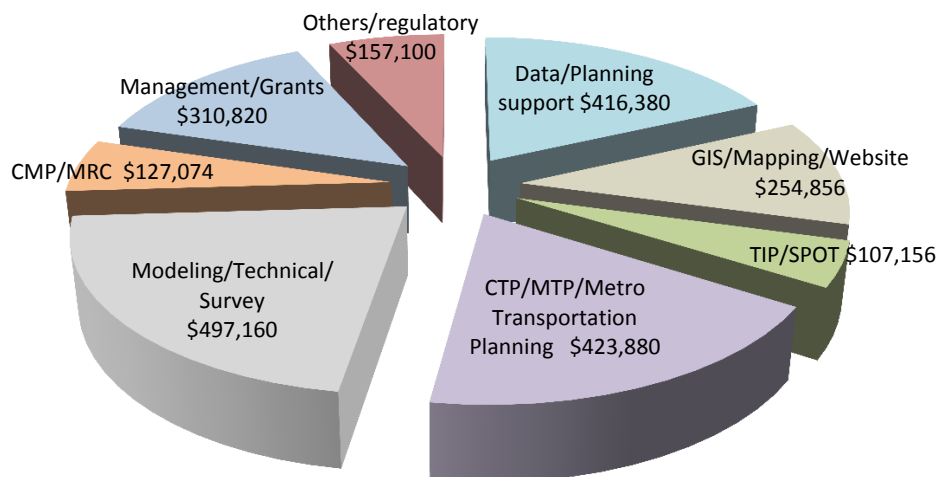
LPA

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II A	Surveillance of Change														
	1 Traffic Volume Counts	\$19,200	\$76,800	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,200	\$0	\$80,800	\$101,000
	2 Vehicle Miles of Travel	\$800	\$3,200	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200	\$0	\$4,800	\$6,000
	3 Street System Changes	\$1,000	\$4,000	\$1,120	\$4,480	\$0	\$0	\$0	\$0	\$0	\$0	\$2,120	\$0	\$8,480	\$10,600
	4 Traffic Crashes	\$4,776	\$19,104	\$1,080	\$4,320	\$0	\$0	\$0	\$0	\$0	\$0	\$5,856	\$0	\$23,424	\$29,280
	5 Transit System Data	\$3,200	\$12,800	\$1,200	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$4,400	\$0	\$17,600	\$22,000
	6 Dwelling Unit, Pop. & Emp. Change	\$8,100	\$32,400	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$13,100	\$0	\$52,400	\$65,500
	7 Air Travel	\$4,000	\$16,000	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$4,100	\$0	\$16,400	\$20,500
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$14,260	\$57,040	\$1,800	\$7,200	\$0	\$0	\$0	\$0	\$0	\$0	\$16,060	\$0	\$64,240	\$80,300
	10 Mapping	\$15,000	\$60,000	\$4,800	\$19,200	\$0	\$0	\$0	\$0	\$0	\$0	\$19,800	\$0	\$79,200	\$99,000
	11 Central Area Parking Inventory	\$1,800	\$7,200	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,200	\$0	\$8,800	\$11,000
	12 Bike & Ped. Facilities Inventory	\$400	\$1,600	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000
	13 Bike & Ped. Counts	\$11,640	\$46,560	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,640	\$0	\$50,560	\$63,200
II B	Long Range Transp. Plan (MTP)														
	1 Collection of Base Year Data	\$6,540	\$26,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,540	\$0	\$26,160	\$32,700
	2 Collection of Network Data	\$3,880	\$15,520	\$800	\$3,200	\$0	\$0	\$0	\$0	\$0	\$0	\$4,680	\$0	\$18,720	\$23,400
	3 Travel Model Updates	\$72,080	\$288,320	\$4,072	\$16,288	\$0	\$0	\$0	\$0	\$0	\$0	\$76,152	\$0	\$304,608	\$380,760
	4 Travel Surveys	\$9,000	\$36,000	\$3,060	\$12,240	\$0	\$0	\$0	\$0	\$0	\$0	\$12,060	\$0	\$48,240	\$60,300
	5 Forecast of Data to Horizon year	\$526	\$2,104	\$240	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$766	\$0	\$3,064	\$3,830
	6 Community Goals & Objectives	\$360	\$1,440	\$1,330	\$5,320	\$0	\$0	\$0	\$0	\$0	\$0	\$1,690	\$0	\$6,760	\$8,450
	7 Forecast of Future Travel Patterns	\$1,920	\$7,680	\$1,100	\$4,400	\$0	\$0	\$0	\$0	\$0	\$0	\$3,020	\$0	\$12,080	\$15,100
	8 Capacity Deficiency Analysis	\$5,352	\$21,408	\$2,400	\$9,600	\$0	\$0	\$0	\$0	\$0	\$0	\$7,752	\$0	\$31,008	\$38,760
	9 Highway Element of the MTP	\$3,712	\$14,848	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$7,512	\$0	\$30,048	\$37,560
	10 Transit Element of the MTP	\$9,734	\$38,936	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$13,534	\$0	\$54,136	\$67,670
	11 Bicycle & Ped. Element of the MTP	\$7,200	\$28,800	\$2,878	\$11,512	\$0	\$0	\$0	\$0	\$0	\$0	\$10,078	\$0	\$40,312	\$50,390
	12 Airport/Air Travel Element of MTP	\$1,120	\$4,480	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,320	\$0	\$5,280	\$6,600
	13 Collector Street Element of MTP	\$1,794	\$7,176	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$2,394	\$0	\$9,576	\$11,970
	14 Rail, Water or other mode of MTP	\$7,320	\$29,280	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,320	\$0	\$29,280	\$36,600
	15 Freight Movement/Mobility Planning	\$3,540	\$14,160	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$3,740	\$0	\$14,960	\$18,700
	16 Financial Planning	\$1,000	\$4,000	\$480	\$1,920	\$0	\$0	\$0	\$0	\$0	\$0	\$1,480	\$0	\$5,920	\$7,400
	17 Congestion Management Strategies	\$17,336	\$69,344	\$1,139	\$4,555	\$0	\$0	\$0	\$0	\$0	\$0	\$18,475	\$0	\$73,899	\$92,374
	18 Air Qual. Planning/Conformity Anal.	\$1,960	\$7,840	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$3,560	\$0	\$14,240	\$17,800
II C	Short Range Transit Planning														
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$10,305	\$10,305	\$82,440	\$0	\$0	\$0	\$10,305	\$10,305	\$82,440	\$103,050
III-A	Planning Work Program														
	Planning Work Program	\$5,958	\$23,832	\$4,006	\$16,024	\$0	\$0	\$0	\$0	\$0	\$0	\$9,964	\$0	\$39,856	\$49,820
III-B	Transp. Improvement Plan														
	TIP	\$9,700	\$38,800	\$5,661	\$22,645	\$0	\$0	\$0	\$0	\$0	\$0	\$15,361	\$0	\$61,445	\$76,806
III-C	Civil Rgts. Cmp./Otr. Reg. Reqs.														
	1 Title VI	\$2,654	\$10,616	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,654	\$0	\$14,616	\$18,270
	2 Environmental Justice	\$5,800	\$23,200	\$1,640	\$6,560	\$0	\$0	\$0	\$0	\$0	\$0	\$7,440	\$0	\$29,760	\$37,200
	3 Minority Business Enterprise	\$2,380	\$9,520	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,780	\$0	\$11,120	\$13,900
	4 Planning for the Elderly & Disabled	\$1,746	\$6,984	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,146	\$0	\$8,584	\$10,730
	5 Safety/Drug Control Planning	\$5,340	\$21,360	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$6,940	\$0	\$27,760	\$34,700
	6 Public Involvement	\$27,402	\$109,608	\$3,769	\$15,077	\$0	\$0	\$0	\$0	\$0	\$0	\$31,171	\$0	\$124,685	\$155,856
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Png./Project Dev.														
	1 Transportation Enhancement Png.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Png.	\$3,470	\$13,880	\$2,600	\$10,400	\$0	\$0	\$0	\$0	\$0	\$0	\$6,070	\$0	\$24,280	\$30,350
	3 Special Studies	\$2,800	\$11,200	\$4,600	\$18,400	\$0	\$0	\$0	\$0	\$0	\$0	\$7,400	\$0	\$29,600	\$37,000
	4 Regional or Statewide Planning	\$4,400	\$17,600	\$3,600	\$14,400	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000	\$0	\$32,000	\$40,000
III-E	Management & Operations														
	1 Management & Operations	\$39,800	\$159,200	\$12,400	\$49,600	\$0	\$0	\$0	\$0	\$0	\$0	\$52,200	\$0	\$208,800	\$261,000
	Totals	\$350,000	\$1,400,000	\$88,275	\$353,101	\$10,305	\$10,305	\$82,440	\$0	\$0	\$0	\$448,580	\$10,305	\$1,835,541	\$2,294,426

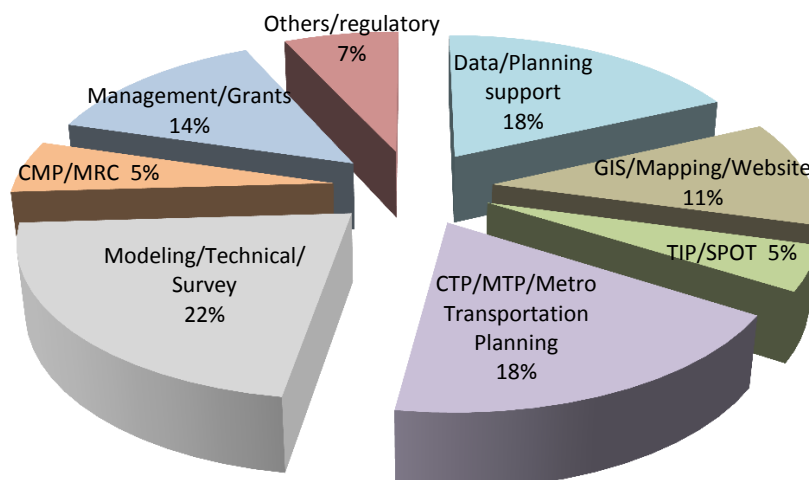
Summary of LPA Tasks and Funding by Broad Categories

Summary of LPA Tasks and Funding by Broad Categories		
Broad Aggregated Tasks	FY funding	Percent
Data/Planning support	\$416,380	18.1%
GIS/Mapping/Website	\$254,856	11.1%
TIP/SPOT	\$107,156	4.7%
CTP/MTP/Metropolitan Transportation Planning	\$423,880	18.5%
Modeling/Technical/Survey	\$497,160	21.7%
CMP/MRC	\$127,074	5.5%
Management/Grants	\$310,820	13.5%
Others/regulatory	\$157,100	6.8%
Total	\$2,294,426	100%

Broad Aggregated Tasks Funding



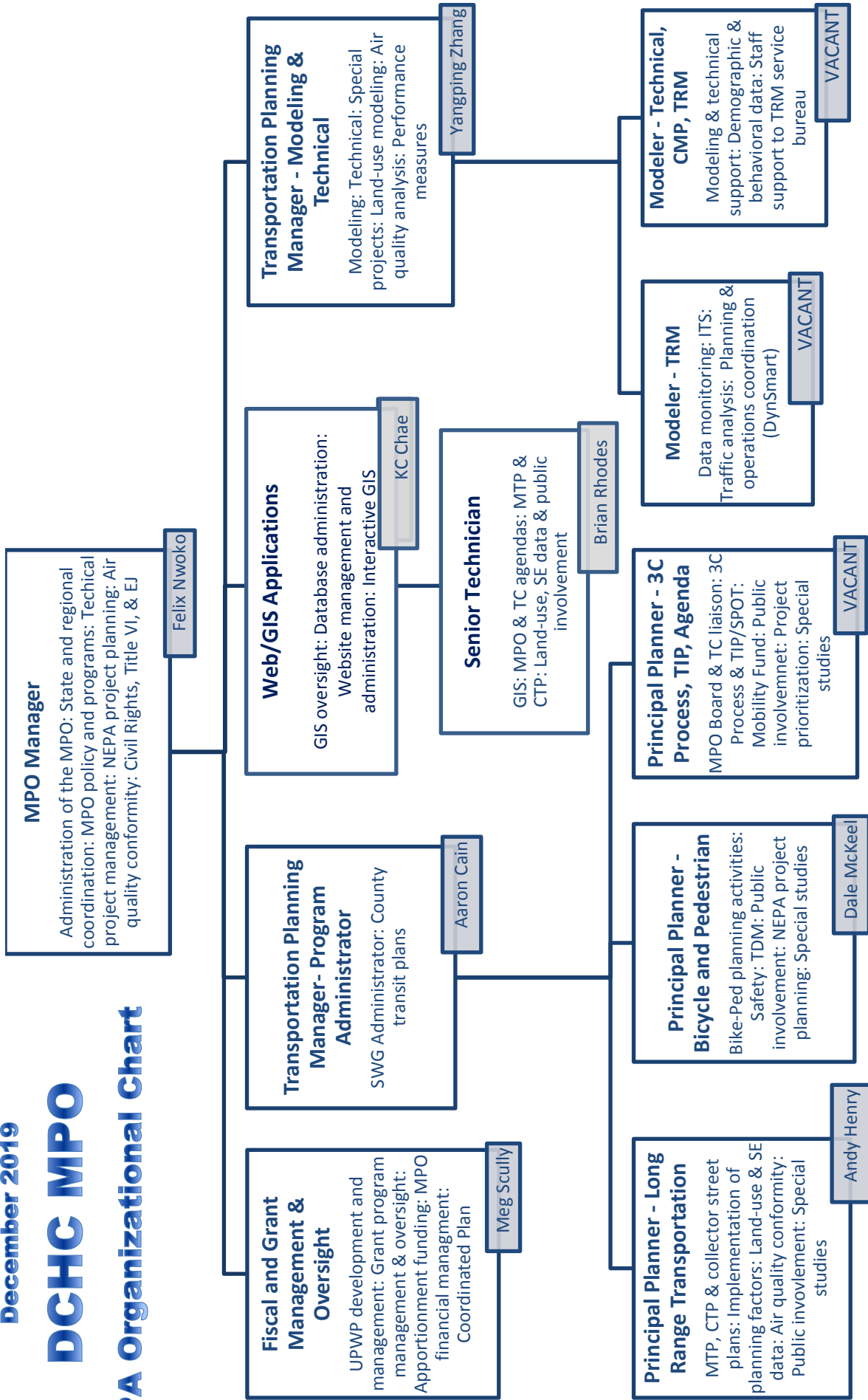
Broad Aggregated Tasks - Percent



December 2019

DCHC MPO

LPA Organizational Chart



Interns; Temporary & Part-time

Support for positions listed above;
Supervised by MPO Manager.

Glossary	
CMP	Congestion Management Process
CTP	Comprehensive Transportation Plan
EJ	Environmental Justice
GIS	Geographic Information Systems
ITS	Intelligent Transportation System
LEP	Local Enterprise Partnership
LPA	Lead Planning Agency
MPO	Metropolitan Planning Organization
MTP	Metropolitan Transportation Plan
NEPA	National Environmental Policy Act
SE	Socio Economic
SPOT	Strategic Planning Office of Transportation
TC	Technical Committee
TDM	Transportation Demand Management
TIP	Transportation Improvement Program
TRM	Transportation Regional Model
UPWP	Unified Planning Work Program
3C	Comprehensive, Cooperative, & Continuing

DCHC MPO Task Description and Deliverables or Products

The major products of the transportation planning process, in addition to the UPWP, are the Metropolitan Transportation Plan (MTP), Congestion Management Process (CMP), Public Participation Process, project development and the Transportation Improvement Program (TIP). Numerous special reports, corridor/subarea studies and analyses on a wide variety of transportation issues are also produced on a regular basis.

II-A: Surveillance of Change

The MPO is required by federal regulations and the 3C process to perform continuous data monitoring and maintenance. A number of transportation and socio-economic/demographic conditions will be continuously surveyed and compiled annually to feed into MPO technical analyses such as modeling, Metropolitan Transportation Plan update, Congestion Management Process, Mobility Report Card project development, Title VI planning, EJ/LEP demographic profiles, TIP, project prioritization, etc. The following data collection and monitoring tasks will be conducted during the FY2019 UPWP period.

Task II-A-1: Traffic Volume Counts

The Lead Planning Agency (LPA) will continue to collect tabulate and analyze traffic counts and turning movement counts at specified locations. This task includes maintaining ADT counts and database for model calibration on arterial, minor arterial, and collector streets. The LPA will continue routine traffic counts data collection as part of the annual count program as well as on screen lines and cut lines for model validation. These counts will augment triennial traffic counts collected by NCDOT. Traffic counts will include daily, hourly, vehicle classification, or turning movements. The MPO agencies will be responsible for supplementing counts at specified locations within their jurisdiction and for furnishing the raw daily traffic counts, count information, and location maps to the LPA. The traffic count data will feed into the MPO Congestion Management Process (CMP), Triangle Regional Model (TRM) maintenance and update, MPO GIS and safety and freight planning, TIP prioritization, and federally required performance measurement and establishment of targets. MPO staff will continue to work and collaborate with member municipalities in performing various technical duties associated with updating and maintaining the traffic volume, speed and accident data; analyze data for causes and recommend remedial action on the transportation system within the MPO boundary; and also assisting in developing long-range and short-range projects to relieve congestion by addressing roadway management, congestion management, incident management, roadway access management and traffic signal network management.

Task II-A-2: Vehicle Miles of Travel (VMT) Person Miles of Travel (PMT)

The LPA will continue to tabulate VMT by functional classification and County. As specified by the Metropolitan Transportation Plan Goals, Objectives and Targets, annual VMT growth will be monitored and compared to the MTP Targets. The MPO will continue to refine the methodology for tracking multi-modal PMT. This information will help to develop performance measures required by federal legislation and also help determine if the Plan targets are being met. This will feed into the Highway Performance Monitoring System (HPMS), CMP and the Mobility Report Card. The LPA will continue to generate VMT metric from the Triangle Regional Model.

Task II-A-3: Street System Mileage Change

The MPO will continue to support land-use mapping activities such as aerial orthoimagery, and street centerlines, names and addresses, maintained by cities and counties and integrated by MPO and TRM Service Bureau to accurately geocode buildings and employers to Transportation Analysis Zones (TAZ) and other geographic areas. DCHC MPO will update local street centerline GIS data for all DCHC MPO counties and all counties immediately adjacent to the region. DCHC MPO counties will be updated as needed, with metadata verified or created; the old layer will be archived with a

timestamp in the filename. Adjacent counties will follow the same protocol, but be done on a bi-annual basis unless a higher frequency is required. The MPO will continue to update inventory of improvements to municipal street system, and update the inventory of signalization on existing major streets, to provide accurate inputs for the Triangle Regional Model (TRM). The MPO will monitor changes in street mileage systems from previous years and summarize inventory by functional classification. The MPO will continue to update HERE (formerly NAVTEQ) street file and attribute data. The MPO municipalities (Town of Chapel Hill, the Town of Carrboro, and the City of Durham) will continue to gather from the NCDOT Division 7 and 5 offices and compile in database, improvements to the state highway system, whether planned, underway, or completed. Each municipality will compile and maintain similar records for its municipal street system. The MPO municipalities participating in the Powell Bill Program will certify street mileage maintained during this fiscal year. The product of this task will feed into the MPO GIS and data management system. The objective is that, periodically or as changes or additions to the major street system occur, street inventory will be updated and be current through the proposed data automation and management system. These data will also feed into the MPO performance measures as required by federal regulation.

Task II-A-4: Traffic Accidents (Crash/Safety)

The LPA will continue to collect, tabulate and analyze route traffic accident data from TEES and prepare a summary and analysis of high accident locations by mode as well as compare data analysis to previous years' results. Crash data will include auto, bike and pedestrian crashes for the latest three year period within the MPO Metropolitan Planning Boundary. This task will align, build from, and support the safety work of the NCDOT as required by federal regulations. The task will feed into the MPO Congestion Management Process (CMP), MPO MTIP ranking and project prioritization, SPOT, mobility funds and urban loop funds prioritization, etc. The LPA will update the geo-spatial application that will map, manage and analyze crash data in a way that will allow planners, engineers and the public to better understand crashes within our region. The analytical tool will also allow the MPO to formulate public policy with our entities that will reduce crashes and improve public safety.

Task II-A-5: Transit System Data

The LPA will continue to undertake a comprehensive transit system data collection effort. Transit data will be collected for MPO transit providers including GoDurham, Chapel Hill Transit (CHT), GoTriangle and Duke University Transit. This will include APC data to evaluate transit service performance, route productivity, and develop standards. Operators will identify strengths and weaknesses of service by route in order to assess service barriers and future options. Information will be used to monitor service and meet FTA NTD reporting requirements. APC data will be summarized and tabulated for CHT, GoDurham, Duke and GoTriangle as follows: stop level, trip level, time period (peak/nonpeak) level, segment by trip, segment by time period, spatial analysis (TAZ and census tract) and micro analysis (system level).

Task II-A-6: Dwelling Unit / Population and Employment Changes

The MPO will continue to support land-use mapping activities such as aerial orthoimagery, flown metro-wide every 2 years by the region's cities and counties to provide the basis for geographically accurate local land use data; parcel-level land use file, maintained by counties and integrated by MPO planning analyses, to provide current land use; planned land use, maintained by cities and counties and integrated by CommunityViz to represent the collective future imagined by area local governments; street centerlines, names and addresses, maintained by cities and counties and integrated by MPO and TRM Service Bureau to accurately geocode buildings and employers to Transportation Analysis Zones (TAZ) and other geographic areas; economic and demographic data, maintained by a wide variety of federal, state and local agencies and aggregated by the MPO to monitor changing trends by location or characteristic. The LPA will continue to maintain inventory of dwelling units and population to track changes and to compare with assumptions used in the adopted MTP and CTP.

Changes in development will be used to determine needed changes in transportation services and how well developments compare to current and projected demands. The LPA continues to review developments to assess impacts to the 2045 Metropolitan Transportation Plan (2045 MTP), socio-economic and demographic data for MTP update, update of Community Viz land-use scenario planning, land-use model update, and transportation project development. Changes in dwelling units and employment within the MPO will be identified and evaluated to determine accuracy and consistency with the socio-economic forecast. The MPO will review and tabulate Census data, local parcel, zoning, tax data records, InfoUSA, and Employment Security Commission data as part of this monitoring task. The MPO will continue work on the update and enhancement of the MPO GIS enterprise and the Employment Analyst.

Task II-A-7: Air Travel

The MPO will continue to undertake routine collection of travel and passenger data at the Raleigh-Durham International Airport (RDU). Data to be collected and analyzed include, but are not limited to, number of daily flights, number of daily enplaned passengers, number of deplaned passengers, ground transportation, and tons of cargo activity. The purpose of the data collection and monitoring is to determine the influence of RDU as a generator on the regional transportation system and to identify need for additional services.

Task II-A-9: Travel Time Studies

The MPO will continue to undertake routine travel-time runs (floating car technique) on selected links during peak period to provide accurate inputs for applications such as the travel model update and the CMP. MPO will continue evaluation of travel time field data collector, and validation using INRIX and other Bluetooth. The LPA will collect highway/auto travel time and speed along major and minor facilities. The MPO will continue to update the HERE travel time and the MS2 travel time portal.

Task II-A-10: Mapping

The MPO will continue to improve and expand its analytical capabilities such as Geographic Information Systems (currently ESRI's ArcGIS), specifically to maintain, integrate, and analyze the geographically-based data sets and portals; statistical analysis software to analyze geo-spatial data sets and to estimate the parameters on various models, especially the TRM and CommunityViz. The MPO will continue to update, maintain and enhance modeling and visualization software to help translate technical data inputs into meaningful measures and to visually display data for improved understanding and public awareness. This task will also include, but not be limited to, mapping of, and geo-spatial updates to, UPWP transportation planning activities such as the CMP, traffic counts, bicycle and pedestrian counts and inventory, transit routes, land use, traffic analysis zones, socio-economic and demographic trends, Title VI and environmental factors. The MPO will continue to update base maps for corridor studies and project planning. Work will continue on the development and update of the GIS online. Work will continue on the update and enhancement of mapping for the MPO website and Public Involvement planning. Work will also continue on the integration and maintenance of the Employment Analyst, community Viz and enterprise GIS. The LPA will continue to improve MPO GIS support for short and long-range transportation plans by providing visualization enhancement and as required by federal regulations, including creating and maintaining metadata and data catalog for MPO planning area. MPO transit operators will update GIS data for transit routes, stops and segments including attributes. The LPA will continue work associated with management of MPO database, ArcGIS shape files and Google KML files. Expected deliverables and work products are summarized as follows:

- Update and enhancements of GIS Online portals
- GIS online mapping
- Maintenance and development of updated MPO data collection maps
- Transit APC mapping

- Updated transit routes, stops, segments with attributes
- Maintain project geospatial and tabular data related to transit component of the CTP, MTP and TIP
- Parking inventory spatial database and mapping
- ADT mapping in support of planning needs
- Data mapping in support of planning needs
- Employment Analyst enhancements
- Base year tear socio economic and demographic maps
- LEP/EJ demographic profiles mapping
- Updated local and composite street centerline mapping
- Updated HERE street layer
- Crash and safety mapping in support of planning needs and project development.

Task II-A-11: Central Area Parking Inventory

The LPA will continue data collection and inventory of on- and off- street parking facilities in the Central Business Districts (CBD), major generators and universities. Parking data to be collected include number of spaces, parking fee rates (hourly daily, and monthly), average weekday costs, and demand. Parking information collected will help in the calibration and maintenance of the travel model. The LPA will update the parking inventory and usage spatial geodatabase as well as Parking Area Study Analysis.

Task II-A-12: Bike & Pedestrian Facilities Inventory

The MPO will continue to conduct inventory of bicycle and pedestrian facilities as part of the CMP and development of performance measures. The inventory will provide inputs for the travel model and help identify future sidewalk projects, guide pedestrian improvement planning, and support specific projects, such as the Comprehensive Bicycle Plan, Comprehensive Pedestrian Plan and TIP/SPOT prioritization.

Task II-A-13: Bicycle and Pedestrian Counts

The LPA staff will continue to participate in bicycle and pedestrian planning in the region and provide technical assistance/coordination to other government units as needed. The MTP supports and encourages bicycle and pedestrian planning and staff continue to work toward achieving those goals. The primary activity in this task will be the further development of the bicycle system inventory using GIS online and Google Earth. The MPO will continue to conduct an inventory of bicycle and pedestrian facilities as part of the CMP and the development of performance measures. The proposed inventory will provide accurate inputs for the travel model update as well as help identify future sidewalk projects, guide pedestrian improvement planning, and to support specific projects, such as the Comprehensive Bicycle Plan, Comprehensive Pedestrian Plan, and TIP/SPOT prioritization. Also, inventory of bicycle and pedestrian counts will continue to be conducted as part of the Congestion Management Process and development of performance measures. The inventory will guide pedestrian improvement planning, and support specific projects, such as the Comprehensive Bicycle Plan, Comprehensive Pedestrian Plan, development of Transportation Alternatives (TA) funding allocation criteria, etc.

II-B: Long Range Transportation Plan/Metropolitan Transportation Plan (MTP) Activities

Federal Law and USDOT's Metropolitan Planning Regulations require the MPO to have a Metropolitan Transportation Plan (MTP) that is: multi-modal, financially constrained, has a minimum 20 year horizon, adheres to the MPO's adopted Public Involvement Policy (PIP), has growth forecasts consistent with latest planning assumptions and local land use plan, meets air quality conformity, and be approved by the MPO Board. The MTP must be updated and reaffirmed every 4 years. The DCHC will continue tasks associated with the update and reappraisal of the comprehensive transportation plan as well as commence data collection preparation for the 2020 model base year. The MPO will continue to work on the preparatory work for timely and efficient development of the 2050 MTP.

Task II-B-1: Collection of Base Year Data

This task provides travel and socio-economic data for the modeling update. The data collection initiatives include processing and analysis of Census, American Community Survey (ACS) and employment/special generator. These efforts will result in the creation of several travel modeling databases that will be used in the development and update of forecasting tools. The LPA will continue to update the socio-economic and demographic data for the base year model and Title VI demographic/ Minority and Low Income (MLI) profiles. Work activities will include update, estimation and tabulation of the following data elements; population, housing, income, auto ownership, limited-english proficiency, linguistically isolated households, workers, head of household, environmental justice, linguistic demographic factors, ACS community patterns, school enrollment, etc. It is expected that these variables will be linked to the proposed data automation projects, and a GIS database and management system will be used to maintain the aforementioned socio-economic and land use information. An integral part of this task also will be continuous data verification, reconciliation, and quality and error checks.

Task II-B-2: Collection of Network Data

The MPO will continue to update transportation/model network data. The proposed work activities will include collection and update of the following transportation network variables and attributes:

A-Highways: 1) posted speed limit; 2) number of lanes; 3) segment length; 4) turn pockets; 5) parking conditions; 6) traffic signal locations and stop conditions; 7) signal density; 8) access control and driveway conditions; 9) land use and area type; 10) free flow speeds; 11) Travel Time; 12) median condition; and 13) facility type and functional classification.

B-Transit: 1) headways; 2) speed; 3) hours of operation; 4) services miles; 5) fare structure; 6) transfer information; 7) schedule information; and 8) route information and service characteristics for each route.

C-Bicycle and Pedestrian: 1) mileage; 2) activity density; 3) neighborhood characteristics; 4) environment, friendliness factors and indices; and 5) connectivity.

Task II-B-3: Travel Model Updates

The purpose of this task is to continue to review and analyze existing travel demand and air quality models in order to determine feasible enhancements to the modeling procedures that are used in the TRM. DCHC MPO will continue to perform air quality, regional travel demand, and micro-simulation model runs for existing and future projects as needed. Staff will continue to be involved in the development, enhancement and update of the Triangle Regional Model (TRM). Specifically, work will focus on the development, calibration and development of Version 6.1 of the model and preparatory work for version 6.x or V7. This element provides for maintenance, improvement, and support of travel models housed at the Service Bureau. These models provide analytical tools for various transportation analyses, policy testing, and public outreach. Improvement activities involve developing new tools and techniques to enhance travel model applications in various areas. Support activities involve maintenance of the software and hardware of the modeling system, documentation, staff training, and assisting consultants who are providing service to the regional projects. This element also provides for technical communication and participation at the State and Federal (FHWA &FTA) levels to ensure travel models are developed in a coordinated manner to meet future needs and expectations. Consultants and University partnership/ assistance will be utilized in undertaking work activities under this task.

The DCHC MPO, with CAMPO, NCDOT and GoTriangle, develops and maintains a regional travel demand model for predicting the impact of transportation investments and land-use policies on travel demand and air quality. The model is used by the MPO in development of the required MTP and CTP, by NCDOT in project development, SPOT/TIP prioritization, Mobility funds ranking and loop prioritization,

by GoTriangle in new Start analysis and fixed guideway transit, and by local and state agencies for development impacts analysis and scenario planning. The main modeling work tasks include:

- Monitor and understand changes in federal requirements as they affect MPO modeling.
- Continue to improve and enhance models and make them responsive to technical and policy questions the MPO seeks to answer.
- Research ways in which the state-of-the-practice is changing and develop modification and improvements in the modeling process to meet those standards.
- Acquire and process data so work program can be accomplished to meet federal requirements.
- Estimate, calibrate and validate current TRM as an on-going activity.
- Ensure that validation focuses on improvements to link level and route level performance.
- Ensure TRM base year and future years are ready for MTP evaluation two years before hand.
- Document TRM so it can be understood and replicated.
- Document the modeling process so that its capabilities and limitations can be understood by policy makers and lay person.

Essentially, the modeling in the proposed work program involves the update, calibration and validation for the model to support the development of the TRM versions 6.1 and 6.x and MTP modeling support. Update of the TRM including improvements, enhancements and major updates.

Task II-B-4: Travel Surveys

The DCHC MPO, along with the other TRM stakeholders, will continue undertake an annual rolling ACS style continuous travel behavior survey (household survey) and Transit Onboard survey tabulation and analysis. The survey is being managed by the TRM Service Bureau, however LPA staff will be involved in every facet of the survey and analysis.

Task II-B-5: Forecast of Data to Horizon Year

The LPA will continue to generate and update socio-economic and demographic projections and forecasts. CTP and MTP forecasts will continue to be re-evaluated and refined consistent with local land-use plans as well as State and regional land use policies.

Task II-B-6: Community Goals and Objectives

No activity planned during FY2020 UPWP period.

Task II-B-7: Forecast of Future Travel Patterns

MPO will generate and update travel demand forecasts for future years including MTIP, SPOT, CMP, MRC, etc. The forecast of travel patterns will include a review of these factors and comparison to community goals and objectives to determine if changes in assumptions are warranted.

Task II-B-8: Capacity Deficiency Analysis

The MPO will continue to update capacity deficiency analysis for reappraisal activities for CTP and MTP, MRC, CMP and other project development activities. Essentially this task encompasses application of the Triangle Regional Model and other modeling tools to analyze deficiencies in the existing transportation system relative to anticipated future travel demand.

Task II-B-9: Highway Element of the MTP

The MPO will continue work associated with the reappraisal and evaluation of highway elements of the Comprehensive Transportation Plan and the update of the 2045 MTP. Performance measures will be established for evaluating highway performance.

Task II-B-10: Transit Element of the MTP

The MPO will continue with the update and evaluation of transit elements of the Comprehensive Transportation Plan, the MTP, County transit plans, and the regional New Starts. Transit evaluation will include fixed-route bus service, fixed-guideway transit, high capacity transit and demand-response transit. Using travel behavior, ridership forecasts and other analysis, evaluation of the transit element will look at unmet needs, new service areas and potential markets. Performance measures will routinely be established for evaluating transit alternatives.

The MPO will continue to coordinate with GoTriangle and other regional partners regarding the development of the regional commuter rail and light rail. Specifically, the MPO will conduct planning and studies for D-O LRT, and high capacity transit and circulator transit (MLK BRT in Chapel Hill), and other planning work necessary for the preparation of the FTA Small-Start project. It is anticipated that this work will be accomplished with the help of consulting services.

Task II-B-11: Bicycle & Pedestrian Element of the MTP

The MPO will continue with the reappraisal and reevaluation of bicycle and pedestrian elements of the Comprehensive Transportation Plan and the MTP. The MPO and its member agencies will continue work on improving and enhancing bike and pedestrian investment within the MPO.

Task II-B-12: Airport/Air Travel Element of MTP

The MPO will continue with the evaluation of airport/air travel element of the Metropolitan Transportation Plan, including inter-modal connection and access/ground transportation. Work task will include review of RDU plans and comparison and integration as necessary with the MTP for consistency. The MPO will continue to routinely coordinate and collaborate in the integration of aviation planning into MTP update process as well as integrate aviation with other transportation modes. Also, the MPO will continue to facilitate an open, ongoing discussion of regional aviation issues among aviation professionals, regional elected leadership, and local, state, and federal officials; and effectively integrate aviation planning considerations into the overall metropolitan transportation planning process.

Task II-B-13: Collector Street Element of MTP

MPO will continue work on the update of the MPO Collector Street and Connectivity Plan. Work tasks will involve the identification of future collector street connectivity needs, provisions for local street connectivity, development ordinance implementation provisions, additional local government consultation, and public involvement. The MPO will continue to involve CAMPO, City of Raleigh and Wake County regarding collector street and connectivity planning in Brier Creek and east Durham area.

Task II-B-14: Rail, Water, or Other Mode of MTP

The MPO will continue to work with NCDOT Rail Division, GoTriangle and CAMPO regarding rail transportation in the Triangle. Work includes, but is not limited to, survey of rail plans, relationship to the MPO Metropolitan Transportation Plan and Comprehensive Transportation Plan, programmatic impacts, etc. Also, this task will include planning associated with commuter and light rail efforts. The CRT MIS work will continue in FY2020. The MPO will continue to play active role in next step of the commuter rail assessment study and project development.

Task II-B-15: Freight Movement/Mobility Planning

MPO will continue to undertake tasks associated with urban goods movement, specifically freight accessibility and mobility. Tasks associated with the implementation of the Regional Freight Plan will continue. Other tasks to be undertaken include attending and staffing the Regional Freight Stakeholders meetings, survey of freight carriers, recommendations for improving truck mobility or train/truck

intermodal movements, and identifying acceptable truck routes. The MPO will continue the management role to the update of the Triangle Regional Freight plan.

Task II-B-16: Financial Planning

The MPO will continue to update and refine cost estimates and revenues for the regional transit initiatives and the 2045 MTP. As part of this task, the MPO will examine financial options for funding proposed transportation projects and programs, including review of the financial planning assumptions/ projections in the 2045 MTP and update of the Durham County and Orange County financial plans based on the latest half-cent sales tax revenue collection.

Task II-B-17: Congestion Management Systems Strategies

The MPO will work to implement and monitor the Congestion Management Program (CMP) in accordance with the provisions of 23 U.S.C. and 23 CFR. Specifically, the MPO will continue with the update and monitoring of CMP strategies and State of the Systems Report. Also, the MPO will continue to update the Mobility Report Card, including metrics, graphics and reports. The MPO will continue to collaborate on the update, monitoring and implementation of the Travel Demand Management (TDM) activities and program. Other proposed activities include: Acquire vehicle probe data to support update to regional congestion analysis and calculation of key performance metrics on the entire Congestion Management Network; Continue data collection, analysis and reporting in support of the CMP (ongoing); Undertake CMP Implementation, by integrating CMP with the development of planning products and activities, including the MTP, TIP, ITS Architecture, planning studies, etc. (ongoing); Incorporate additional transportation modes and coordinate with stakeholders and regional transportation stakeholders to incorporate bicycle and pedestrian modes into the CMP(ongoing); and maintain CMP products and documentation as needed(ongoing).

Under this task, the MPO will continue to establish and monitor performance measurement targets in response to the FAST Act's performance-based approach to statewide and metropolitan planning; and coordinate the selection of performance targets by NCDOT, the MPO and the region's transit agencies to ensure consistency, as appropriate.

Task II-B-18: Air Quality Planning/Conformity Analysis

Currently, the DCHC MPO is designated as attainment for the National Ambient Air Quality Standards (NAAQS). On February 16, 2018, there was a decision from the D.C. Circuit Court in the South Coast Air Quality Management District v. EPA. Per the Circuit Court decision, The Raleigh-Durham-Chapel Hill area is considered an orphan maintenance area and based on the EPA guidance of November 2018, the area will need to demonstrate transportation conformity for transportation plans and TIPs for the 1997 ozone NAAQS. This conformity can be demonstrated without a regional emissions analysis (REA) pursuant to 40 CFR 93.109(c). Though not required, the Triangle region air quality partners have decided to continue to implement activities including an air quality regional analysis on its MTP and TIP. NCDOT and TJCOG will assist the MPOs in performing this REA on MTP projects.

Task II-C: Short Range Transit Planning

The MPO transit operators will continue activities related to short range transit planning. This includes continuous evaluation of their respective transit development plans and service performance.

Task III-A: Planning Work Program

Unified Planning Work Program (UPWP) work includes conducting metropolitan planning and implementing planning activities for the MPO. This involves responding to regulations and mandates, and reporting information on 3C planning topics, including those identified in federal legislation, and issues related to federal policies, regulations, and guidance, such as responding to federal certification

recommendations. Additionally, the LPA will provide support related to planning topics such as those highlighted in federal planning guidance, including operations and management, sustainability, health, freight, economic effects, and environmental issues.

Under this work element, the LPA will finalize the reimbursement and invoicing process for the FY2020 UPWP, administer the FY2021 UPWP, prepare and process amendments as needed, evaluate transportation planning work needs and emphasis areas and prepare the FY2022 UPWP. LPA will prepare and continually maintain UPWP that describes all transportation and transportation-related planning activities anticipated within the DCHC MPO planning area for the year. Work program will include the development and maintenance of UPWP in conformance with applicable federal, state, and regional guidelines. In addition, work will include the preparation of UPWP amendments as necessary and requested by member agencies, to reflect any change in programming or focus for the current fiscal year. The MPO will commence the preparatory work on the development of the FY2022 UPWP.

Task III-B: Transportation Improvement Program (TIP)

The LPA will continue work associated with the development of the 2020-29 MTIP, including prioritization work (SPOT-6) activities. Also, the MPO will continue to process TIP amendments as needed, including coordinating with the MPO member agencies and conducting public involvement/outreach, and commence work on the development of the TIP ranking and prioritization. This includes the refinement of the MPO Priority Needs and the identification of the transportation projects, programs, and services towards which the MPO will direct STBG-DA funds. As the Lead Planning Agency (LPA) of the DCHC MPO, the City of Durham Transportation Department –Planning Division is responsible for annually developing, amending, adjusting and maintaining the Transportation Improvement Program (TIP) for the metropolitan area. Under this activity, the LPA will examine any possible need to update and amend the current transportation improvement projects (MTIP) that is consistent with the 2045 Metropolitan Transportation Plan, STIP and FHWA/FTA Planning Regulations.

Task III-C:1 Civil Rights Compliance/Other Regulations and Requirements

The MPO will continue work on the Title VI plan and the NCDOT Civil Right compliance report. NCDOT Civil Right Division conducted a Title VI audit. As a result of the audit the MPO prepared the required Title VI Policy Statement and Assurance. That assurance will be updated accordingly. The DCHC MPO will continue work on the development of the MPO Limited English Proficiency plan as it relates to Title VI issues.

Task III-C-2: Environmental Justice (EJ)

In accordance with Federal action (Executive Order 12898), the MPO will develop an Environmental Justice Plan which will focus on complying with the Executive Order and the three basic principles of Environmental Justice: 1) Ensure adequate public involvement of low-income and minority groups in decision-making; 2) Prevent disproportionately high and adverse impacts to low-income and minority groups resulting from transportation and environmental decisions made by the MPO; and 3) Assure that low-income and minority groups receive a proportionate share of benefits resulting from transportation decisions made by the MPO. Tasks include:

1. Develop MPO Environmental Justice Plan, including establishment of Environmental Justice Advisory Board
2. Update demographic profiles based on Census CTPP and PUMS as well as MPO SE data forecasts - maps to identify areas of low-income, minority and elderly populations, job accessibility, and overlay of major employers, fixed route transit systems, and major shopping areas.
3. Provide increased opportunities for under-served populations to be represented in the transportation

planning process.

4. Define target areas through the use of Census Block Group data from the 2010 Census.
5. Analyze the mobility of target area populations to jobs, childcare, and transit routes.
6. Review existing public outreach and involvement plan.
7. Develop a protocol for responding to issues and concerns regarding environmental justice in general and Hispanic population in particular.
8. Conduct analysis as needed regarding equitable distribution of transportation system benefits and costs among all socio-economic groups throughout the MPO area

Task III-C-3: Minority Business Enterprise

The MPO will continue to address and monitor the Minority Business Enterprise (MBE) program as a part of the planning and programming phases of project development. The MPO will monitor transportation projects and programs to ensure that meaningful and full consideration are given to MBEs. The LPA will review and summarize transit operators MBE program and utilization.

Task III-C-4: Planning for the Elderly & Disabled

The MPO will continue to emphasize planning and provision of transportation facilities and services for persons who are elderly or have a disability. Specifically, the MPO will update the inventory of locations and needs of persons who are elderly or have a disability. The MPO will work with transit operators in the planning and evaluation of para-transit services.

Task III-C-5: Safety and Drug Control Planning

The MPO will continue to update the regional safety plan and report using the data from, and analysis of, TEES data. The MPO will continue to participate in the transit operator's safety coordination meetings as well as update the multi-modal safety plan. The MPO will develop an MPO Safety Plan that incorporates elements of VISION ZERO.

Task III-C-6: Public Involvement

The MPO will continue to update and enhance the MPO website as well as continue to strive to provide early, proactive, and meaningful public participation and input throughout the transportation planning process, including providing for open exchange of information and ideas between the public and transportation decision-makers, to provide the public with complete information, timely notice, full access to key decisions and opportunities for early and continuing involvement in the 3C process, to assess the effectiveness of the current Public Involvement Process as required by the federal Certification Team, and to develop and enhance the process of public dissemination of information. It also includes providing process support, such as developing and preparing informational materials for the MPO website, conducting public outreach, managing the MPO website, preparing and distributing the MPO's newsletter, implementing other social media (Twitter, YouTube and Facebook), and maintaining mailing lists and email lists.

Task III-D: Incidental Planning/Project Development

Task III-D-2: Environmental Analysis & Pre-TIP Planning

The LPA will continue to participate regularly and consistently in the TIP project planning and development process, including submission of comments, attending public meetings, attending scoping meetings, attending NEPA 404 merger meetings, and participating in field inspections. The LPA will continue to be involved in NCDOT project development and the NEPA process including taking the lead in the public involvement process as needed. The MPO will continue to support and be involved in NCDOT efforts to link the NEPA process in the MPO systems planning process.

Task III-D-3 Special Studies

The MPO will continue with wide range of studies which are being conducted to meet the transportation planning needs of the area. These studies include Mobility Report Card, Community Viz integration with RPAT, continuation of the US 15-501 Corridor Study, the regional ITS and Toll studies, MS2 Data portals, funding/E-TIP database, application and portals development, incident management plan, GIS enterprise/GIS online, non-motorized trip model update, land-use model update, bicycle-pedestrian superhighway study, etc. Hillsborough will undertake a feasibility study on a potential new road connecting Eno Mtn Rd and NC86, and Chatham County will undertake a bicycle and pedestrian study. LPA work will be conducted by staff. Other work will be conducted by consultants.

Task III-D-4: Regional or Statewide Planning

The MPO will continue to coordinate with CAMPO, GoTriangle, NCDOT, NCDEQ, FHWA, FTA, EPA, and other State and regional agencies in regional transportation. This includes participation in the DCHC-CAMPO joint Board meetings, GoTriangle Board Meetings, Durham-Chapel Hill-Orange County Work Group, and a wide range of regional transportation planning working groups and committees. Examples include the Model Team, the Executive Committee, and the regional transit planning/operation coordination. Statewide planning includes participation in various statewide planning initiatives such as CMAQ Committee, Indirect and Cumulative Impacts of Transportation Projects in North Carolina, the State Transportation Plan process, and the CTP.

Task III-E: Management and Operations

The purpose of this work is to assist and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning process in conformance with applicable federal and state requirements as described in the 3C Memorandum of Understanding. This work encompasses the administration and support of transportation planning process as mandated by federal regulations. The 3C planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes of these meetings, training, preparing quarterly progress reports, documenting expenditures for planning work items, and filing for reimbursement of expenditures from the PL and STBG-DA funds account and other Federal funds. In addition, this work includes consultation with other agencies involved within 3C planning activities; liaison activities between the MPO and NCDOT and ongoing coordination with CAMPO; and communication with other regional groups. Other activities include the day-to-day oversight of, and reporting on, the progress of projects listed in the UPWP, and the establishment of work priorities in light of MPO needs. Proposed tasks include, but are not limited to:

1. Provide liaisons between DCHC MPO member agencies, transit providers, CAMPO, NCDOT, NCDEQ, TJCOG, and other organizations at the local, regional, state, and federal levels on transportation related matters, issues and actions.
2. Respond to federal and State legislation and regulations.
3. Provide service request to citizens.
4. Provide service requests and technical support to MPO member agencies.
5. Provide oversight to MPO planning and transit funding policies.
6. Work with CAMPO on regional issues. Prepare Regional Priority lists and MTIP and amend as necessary, update transportation plans, travel demand model, and monitor data changes. Evaluate transportation planning programs developed through the 3C public participation process for appropriate MPO action.
7. Provide technical assistance to the Board and other member jurisdictions policy bodies.
8. Participate in joint CAMPO/DCHC MPO TC and Board meetings to continually improve the quality and operation of the transportation planning process and decision making in the Triangle Region.
9. Review and comment on federal and state plans, programs, regulations and guidelines.

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1	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring	Surveillance of Change/ Data monitoring
1.1	ADT count and TMC annual and seasonal, including update of count database system	ADT count and TMC annual and seasonal, including update of count database system	ADT count and TMC annual and seasonal, including update of count database system	ADT count and TMC annual and seasonal, including update of count database system	ADT count and TMC annual and seasonal, including update of count database system
1.2	VMT update and monitoring	VMT update and monitoring	VMT update and monitoring	VMT update and monitoring	VMT update and monitoring
1.3	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer	Street System Changes update. Update of INRIX/HERE Street layer
1.4	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses	Traffic accidents data/ multi-modal safety data update and analyses
1.5	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data	Transit system data/Continual update of APC data
1.6	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA (employment & household data), etc
1.7	Air travel. Continual monitoring of RDU passenger activities and ground transportation	Air travel. Continual monitoring of RDU passenger activities and ground transportation	Air travel. Continual monitoring of RDU passenger activities and ground transportation	Air travel. Continual monitoring of RDU passenger activities and ground transportation	Air travel. Continual monitoring of RDU passenger activities and ground transportation
1.8	VOC	VOC	VOC	VOC	VOC
1.9	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.	Travel Time, including continual gathering and update of INRIX, HERE and Travel Time database monitoring system.
1.10	Mapping and update/enhancement and maintenance of the MPO Geo-spatial database and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial database and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial database and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial database and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial database and GIS enterprise
1.11	Parking inventory	Parking inventory	Parking inventory	Parking inventory	Parking inventory
1.12	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv	Bike/Pedestrian. Facilities Inv
1.13	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts	Bike/Pedestrian. Facilities Counts
2	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)	Unified Planning Work Program (UPWP)
2.1	Amend UPWP as necessary	Amend UPWP as necessary	Amend UPWP as necessary	Amend UPWP as necessary	Amend UPWP as necessary
2.2	Process quarterly invoices and reports	Process quarterly invoices and reports	Process quarterly invoices and reports	Process quarterly invoices and reports	Process quarterly invoices and reports
2.3	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation	Prepare annual UPWP progress report and performance evaluation
2.4	Develop FY 2022 UPWP	Develop FY 2023 UPWP	Develop FY 2024 UPWP	Develop FY 2025 UPWP	Develop FY 2026 UPWP
2.5	UPWP financial management and administration	UPWP financial management and administration	UPWP financial management and administration	UPWP financial management and administration	UPWP financial management and administration
	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit	Grant monitoring, oversight and audit
2.6	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development	Perform annual self-certification & On-Going Process-Development
2.7	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.	LPA Local match Cost Sharing, including preparation of annual report.
2.8	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.	Management and Operations of the 3-C Process.
3	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning/CTP	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning/CTP	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning/CTP	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning/CTP	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning/CTP

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3.1	2050 MTP development process and schedule	Amendment of CTP and 2045 MTP as necessary or required. Re-adoption of the CTP if need be.	Amendment of the 2045 MTP for AQ analysis and conformity as necessary	Amendment of CTP and 2045 MTP as necessary or required. Re-adoption of the CTP if need be.	2050 MTP environmental analysis and considertaion
3.2	Refinement of SE forecast to Horizon and intermediate years.	Integration of resiliency planning.	Framework for incorporating technolog and autonomus / connecte vehiclles into the 2050 MTP	Work associated with Goals, Objectives and targets for 2050 MTP commences.	Model and technical analyses for the 2050 MTP
3.3	Model Update and improvements for 2050 MTP development commences	CTP continual update and consistency and integration with CMP and SPOT	Update of base year networks and their attributes	Deficiency analysis and needs assessment for 2050 MTP continue	Continue work on GIS and mapping for MTP base maps
3.4	Inter-Agency Consultation process	Base year SE data collection, tabulation and analysis underway; and networks and attributes development continues	Update of modeling and technical tools for 2050 MTP analyses.	Public outreach for deficiency analysis, existing conditiond snd need assessment	Selection of Preferred MTP Option.
3.5	CTP continual update and amendemnt as necessary.	Update methodology for analyzing and assessing equity and health impacts on 2050 MTP	Continue work on GIS and mapping for MTP base maps	Generation of alternatives for 2050 MTP	AQ analysis and conformity determination process
3.6	2050 MTP Visioning process and coordination kick-off	Adoption of the 2050 MTP development process and schedule	Continue work on GIS and mapping for MTP base maps	Evaluation and analysis of alternatives	Inter-Agency Consultation process
3.7	Goals, Objectives and targets for 2050 MTP	Develop 2050 MTP Public Outreach and input process, including involvement and input from MPO member agencies.	Base year SE data collection and analysis for 2050 MTP	Public outreach and input on the draft preferred plans (options).	Public outreach and involvement of the 2050 MTP.
	Work commences on MPO wide Community visioning. Product to lead into Goals and Objectives development	Update Title 6, EJ and LEP for 2050 MTP	Comm Viz Scenario planning and selction of the preferred scenario	CTP continual update and amendemnt as necessary.	Adoption of 2050 MTP and AQ comformity report
	Dvelopment of networks and update of base maps	2050 Goals, Objectives and Performance Measures	Socio-economic and demographic forecasts for 2050 MTP, including 2030 and 2040 intermediate years	Incorporation of freight, airport, safety, EJ, etc.	Initiation of 2055 MTP development and update process
	Existing conditiond analysis continues	Initiate Community Viz 3.0 model update and land-us scenario building.	Existing conditions and deficiency analyses continue	Amendment of the 2045 MTP as necessary	Amendment of the 2045 MTP as necessary
	Deficiency analysis commences	Public outreach and involvement for thr 2050 MTP	Assessment of Need for the 2050 MTP		
4	Travel Demand Model Development and Update	Travel Demand Model Development and Update	Travel Demand Model Development and Update	Travel Demand Model Development and Update	Travel Demand Model Development and Update
4.1	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities	On-going model maintenance and enhancement activities
4.2	Collection of annual continuous household and transit on board survey. Coordination of estimation year data collection	Support MPO 2045 MTP and air quality conformity model applications	Develop TRMv7: continue estimating models for tour mode choice	Develop TRMv7: incorporate existing model components for commercial vehicles & external models	Develop TRMv7: complete model calibration and validation
4.3	Survey tabulation and analyses winter/spring 2020. Analysis and tabulation of estimation year data (traffic counts, SE data, PASA parking)	Collection of network data and development of networks	Develop TRMv7: model applications completed	Develop TRMv7: initial model calibration and validation begins	Develop TRMv7: develop application tools for plan evaluation & air quality analysis
4.4	Support MPO 2045 MTP model application and demand forecasts.	Maintain/enhance TRMv6: develop addional tools for application	Develop TRMv7: continue estimating models for tour mode choice		2020 census TAZ delineation
4.5	Maintain/enhance TRMv6.x: develop improved parking model	Develop TRMv7: begin developing/adapting application programs for population synthesizer/tour-activity scheduler/router			

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4.6	Develop TRMv7: investigate/specify tour/activity scheduler/router	Develop TRMv7: begin model estimation and calibration for usual work and school location, activity scheduler, and router			
	Develop TRMv7: begin preparing data for estimation				
	Develop TRMv7: available data will be entered in selected data structure				
4.7					
5	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning	Bicycle & Pedestrian Planning
5.1	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy	On-going bike and pedestrian advocacy
5.2	on-going implementation of the bike and pedestrian plans	on-going implementation of the bike and pedestrian plans	on-going implementation of the bike and pedestrian plans	on-going implementation of the bike and pedestrian plans	on-going implementation of the bike and pedestrian plans
5.3	On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness	On-going bike-pedstrian programs monitoring of strategies & effectiveness
6	Short-Range Transit Plan	Short-Range Transit Plan	Short-Range Transit Plan	Short-Range Transit Plan	Short-Range Transit Plan
6.1	On-going transit planning process	On-going transit planning process	On-going transit planning process	On-going transit planning process	On-going transit planning process
6.2	Administration of the Staff Working Group (SWG) and support to the Tax districts revenues	Administration of the Staff Working Group (SWG) and support to the Tax districts revenues	Administration of the Staff Working Group (SWG) and support to the Tax districts revenues	Administration of the Staff Working Group (SWG) and support to the Tax districts revenues	Administration of the Staff Working Group (SWG) and support to the Tax districts revenues
6.3	Update, implementation and oversight of Durham and Orange Transit Plans.	Update, implementation and oversight of Durham and Orange Transit Plans.	Update, implementation and oversight of Durham and Orange Transit Plans.	Update, implementation and oversight of Durham and Orange Transit Plans.	Update, implementation and oversight of Durham and Orange Transit Plans.
7	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)	Congestion Management Process (CMS/CMP)
7.1	On-going update and enhancement of the MPO Mobility Report Card (MRC)	MRC report and AGOL	On-going update and enhancement of the MPO Mobility Report Card (MRC)	MRC report and AGOL	On-going update and enhancement of the MPO Mobility Report Card (MRC)
7.2	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness	On-going CMP monitoring of strategies & effectiveness
7.3	Transportation Performance Measures (TPM)	Update of area of influence and congestion networks. Application & reevaluation of definition of congestion		Update of area of influence and congestion networks. Application & reevaluation of definition of congestion	
7.4	TPM web applications update	Transportation system definition (modes & networks)	TPM web applications update	Transportation system definition (modes & networks)	TPM web applications update
7.5		Transportation system definition (modes & networks)		Transportation system definition (modes & networks)	
7.6	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update	Data collection & analysis for MPO CMS Update
7.7	Update Performance monitoring Plan	Develop Performance monitoring Plan	Update Performance monitoring Plan	Develop Performance monitoring Plan	Develop Performance monitoring Plan
7.8	Update Identification and evaluation of strategies.	Identification and evaluation of strategies.	Update Identification and evaluation of strategies.	Identification and evaluation of strategies.	Identification and evaluation of strategies continues
7.9		Action plan for monitoring effectiveness of strategies		Action plan for monitoring effectiveness of strategies	
7.10		Public comment and adoption of the MPO CMS		Public comment and adoption of the MPO CMS	Public comment and adoption of the MPO CMS
8	TIP	TIP	TIP	TIP	TIP
	Review and confirm data to be used in SPOT 6 (2023-2032 STIP)	Submit SPOT 6 Division Needs points assignment	Develop 2023-2032 MTIP including public input and comment process	Update TIP ranking & project prioritization methodology as necessary	Develop 2025-2034 MTIP including public input and comment process
	Update TIP ranking & project prioritization methodology as necessary	One-on-one discussion between the MPO and NCDOT	Adopt 2023-2032 MTIP	Submit SPOT 7 Regional Impact points assignment	Adopt 2025-2034 MTIP
	Submit SPOT 6 Regional Impact points assignment	Adopt 2023-2032 STIP	Review SPOT 7 (2025-2034) project submissions and prepare comparative analysis	Submit SPOT 7 Division Needs points assignment	Review SPOT 8 (2027-2036) project submissions and prepare comparative analysis

DCHC MPO 5-Year Unified Planning Work Program Technical Committee 1/22/2020 Item 6
July 1, 2020 to June 30, 2025

	1	2	3	4	5
FY	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Period	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023	July 1, 2023-June 30, 2024	July 1, 2024-June 30, 2025
			Develop & submit TIP Project Priority List for SPOT 7 (2025-2034 TIP)	One-on-one discussion between the MPO and NCDOT	Develop & submit TIP Project Priority List for SPOT 8 (2027-2036 TIP)
			Review and confirm data for SPOT 7 (2025-2034 STIP)	Adopt 2025-2034 STIP	Review and confirm data for SPOT 8 (2027-2036 STIP)
	TIP Web Application	TIP Web Application	TIP Web Application	TIP Web Application	TIP Web Application
9	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ	Title VI/Civil Rights/EJ
	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP. Evaluate effectiveness of programs and outreach efforts	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP. Evaluate effectiveness of programs and outreach efforts	Update EJ Plan and LEP program, and evaluate effectiveness of program and outreach efforts	Continuous update of Title VI programs, including Assurance Certification, EJ and LEP. Evaluate effectiveness of programs and outreach efforts
	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list	Update EJ and LEP outreach mailing list
	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program	Administer and monitor MPO EJ/LEP program
	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed	Evaluate and Perform EJ analysis, impacts as needed
	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database	Update EL/LEP demographic profile and database
10	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)	Public Involvement/Participation Plan (PIP/PPP)
	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process	Review and evaluate effectiveness of MPO Public Involvement Process
	Social media in MPO public outreach and input process	Social media in MPO public outreach and input process	Social media in MPO public outreach and input process	Social media in MPO public outreach and input process	Social media in MPO public outreach and input process
	On-going MPO website update and content management	On-going MPO website update and content management	On-going MPO website update and content management	On-going MPO website update and content management	On-going MPO website update and content management
11	Project Development & Incidental Planning	Project Development & Incidental Planning	Project Development & Incidental Planning	Project Development & Incidental Planning	Project Development & Incidental Planning
	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies	Participation in project development, environmental analysis, NEPA process and studies
	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination	Pre-TIP project planning and coordination
12	Land-use & Transportation integration	Land-use & Transportation integration	Land-use & Transportation integration	Land-use & Transportation integration	Land-use & Transportation integration
	Community Viz and UrbanSim implementaion, maintenance and update	Community Viz and UrbanSim implementaion, maintenance and update	Community Viz and UrbanSim implementaion, maintenance and update	Community Viz and UrbanSim implementaion, maintenance and update	Community Viz and UrbanSim implementaion, maintenance and update
	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts	Monitoring of land use development and consistency check with SE forecasts
13	Intelligent Transportation System Planning	Intelligent Transportation System Planning	Intelligent Transportation System Planning	Intelligent Transportation System Planning	Intelligent Transportation System Planning
	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance	Turbo Architecture, IDAS and DynaSmart enhancement, update and maintenance
	ITS planning, operation and monitoring	ITS planning, operation and monitoring	ITS planning, operation and monitoring	ITS planning, operation and monitoring	ITS planning, operation and monitoring
14	Safety Planning	Safety Planning	Safety Planning	Safety Planning	Safety Planning
	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.	Safety data collection and analysis, and coordination with other agencies.
14.1	Development of the MPO Safety plan to reflect State Highway Safety initiatives	Update MPO Safety plan and incorporate features of Vision Plan.	Update MPO Safety plan and incorporate features of Vision Plan.	Update MPO Safety plan and incorporate features of Vision Plan.	Update MPO Safety plan and incorporate features of Vision Plan.
	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process	Ongoing integration of safety in the MPO transportation planning process
15	Freight Planning	Freight Planning	Freight Planning	Freight Planning	Freight Planning

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	1	2	3	4	5
FY	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Period	July 1, 2020-June 30, 2021	July 1, 2021-June 30, 2022	July 1, 2022-June 30, 2023	July 1, 2023-June 30, 2024	July 1, 2024-June 30, 2025
	Ongoing freight planning and coordination	Ongoing freight planning and coordination	Ongoing freight planning and coordination	Ongoing freight planning and coordination	Ongoing freight planning and coordination
	Outreach with freight and logistic companies	Outreach with freight and logistic companies	Outreach with freight and logistic companies	Outreach with freight and logistic companies	Outreach with freight and logistic companies
	Continuous update of truck circulation maps	Continuous update of truck circulation maps	Continuous update of truck circulation maps	Continuous update of truck circulation maps	Continuous update of truck circulation maps
16	Transportation System Preservation	Transportation System Preservation	Transportation System Preservation	Transportation System Preservation	Transportation System Preservation
	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation	Transportation System Preservation planning and operation
	planning, programming, implementation, monitoring and evaluation	planning, programming, implementation, monitoring and evaluation	planning, programming, implementation, monitoring and evaluation	planning, programming, implementation, monitoring and evaluation	planning, programming, implementation, monitoring and evaluation
17	GIS Development	GIS Development	GIS Development	GIS Development	GIS Development
	<i>Maintain Databases</i>	<i>Maintain Databases</i>	<i>Maintain Databases</i>	<i>Maintain Databases</i>	<i>Maintain Databases</i>
	Acquire and Maintain Data (ex. Streetlight and other passive data); maintain hardware and software	Acquire and Maintain Data (ex. Streetlight and other passive data); maintain hardware and software	Acquire and Maintain Data (ex. Streetlight and other passive data); maintain hardware and software	Acquire and Maintain Data (ex. Streetlight and other passive data); maintain hardware and software	Acquire and Maintain Data (ex. Streetlight and other passive data); maintain hardware and software
	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers	Maintenance of MPO GIS and data layers
	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data	Coordination with resource agencies and linkages of transportation data with environmental data
	Update green print maps	Update green print maps	Update green print maps	Update green print maps	Update green print maps
	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.	Data development and update. Maintenance and update of spatial geodatabase applications and AGOL.
18	Management and Operations	Management and Operations	Management and Operations	Management and Operations	Management and Operations
	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process	Management and Operations of the MPO 3-C process
	Board directives	Board directives	Board directives	Board directives	Board directives
19	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning	Special Studies/State & Regional Planning
		NC 751 Corridor Study	NC 751 Corridor Study		

Appendix

Commonly Used Acronyms

3-C	Comprehensive, Cooperative, and Continuing
ACS	American Community Survey
ADA	Americans with Disabilities Act (1990)
ADT	Average Daily Traffic
AGOL	ArcGIS Online
APC	Automatic Passenger Counter
AQ	Air Quality
AVL	Automatic Vehicle Location
Bike/Ped	Bicycle and Pedestrian
BOT	Board of Transportation
BRT	Bus Rapid Transit
CAMPO	Capital Area Metropolitan Planning Organization
CBD	Central Business District
CFR	Code of Federal Regulations
CHT	Chapel Hill Transit
CMAQ	Congestion Mitigation and Air Quality Improvement Program
CMP	Congestion Management Process
CMS	Congestion Management System
CO	Certificate of Occupancy
CTP	Comprehensive Transportation Plan
CTPP	Census Transportation Planning Package
DBE	Disadvantaged Business Enterprise
DCHC MPO	Durham Chapel-Hill Carrboro Metropolitan Planning Organization
DEIS	Draft Environmental Impact Statement
DOLRT	Durham-Orange Light Rail Transit
DTAG	Durham Trails and Greenway
EJ	Environmental Justice
EPA	Environmental Protection Agency
ESRI	Environmental Systems Research Institute
E-TIP	Electronic-Transportation Improvement Program

FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FTE	Full-Time Equivalent
FY	Fiscal Year
GIS	Geographic Information Systems
HOT	High-Occupancy Toll (Lane)
HOV	High-Occupancy Vehicle (Lane)
HPMS	Highway Performance Monitoring System
IDAS	ITS Deployment Analysis System
INFOUSA	Info USA
ITRE	Institute for Transportation Research and Education
ITS	Intelligent Transportation System
KML	Keyhole Markup Language
LEP	Limited English Proficiency
LOS	Level of Service
LPA	Lead Planning Agency
MAP-21	Moving Ahead for Progress in the 21st Century Act
MBE	Minority Business Enterprise
MLI	Minority and Low Income
MOVES	Motor Vehicle Emission Simulator
MPA	Metropolitan Planning Area
MPO	Metropolitan Planning Organization
MRC	Mobility Report Card
MTIP	Metropolitan Transportation Improvement Program
MTP	Metropolitan Transportation Plan
NAAQS	National Ambient Air Quality Standards
NCDEQ	North Carolina Department of Environmental Quality
NCDOT	North Carolina Department of Transportation
NEPA	National Environmental Policy Act (1969)

Commonly Used Acronyms

NHS	National Highway System
NPRM	Notice of Proposed Rule Making
N-S BRT	North-South Bus Rapid Transit
NTD	National Transportation Database
OC	Orange County
OPT	Orange Public Transportation
PIP	Public Involvement Policy
PL	Metropolitan Planning (Funds)
PMT	Person Miles of Travel
PTD	Public Transportation Division
PUMS	Public Use Microdata Sample
QC	Quality Control
RDU	Raleigh-Durham International Airport
REA	Regional Emissions Analysis
RFP	Request for Proposal
SE	Socio-Economic
SHSP	Strategic Highway Safety Plan
SIP	State Implementation Plan
SPOT	Strategic Planning Office of Transportation
S RTP	Secure Real-time Transportation Protocol
STBG-DA	Surface Transportation Block Grant-Direct Attributable
STBGP	Surface Transportation Block Grant Program
STI	Strategic Transportation Initiative
STIP	State Transportation Improvement Program
STP	Surface Transportation Program
STP-DA	Surface Transportation Program - Direct Attributable
SWG	Staff Working Group
TA	Transportation Alternatives
TAC	Transportation Advisory Committee (MPO)
TAP	Transportation Assistance Program
TAZ	Transportation Analysis Zone

TBS	Travel Behavior Survey
TDM	Transportation Demand Management
TIA	Traffic Impact Analysis
TIM	Traffic Incident Management
TIMS	Transportation Injury Mapping System
TIP	Transportation Improvement Program
TJCOG	Triangle J Council of Government
TMA	Transportation Management Area
TRM	Triangle Regional Model
TSM	Transportation Systems Management
UPWP	Unified Planning Work Program
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound

Town of Carrboro

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA				
		20%	80%	20%	80%	10%	10%	80%	10%	10%	80%				
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$300	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300	\$0	\$1,200	\$1,500
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500
11	Central Area Parking Inventory	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100	\$0	\$400	\$500
12	Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Bike & Ped. Counts	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
II-B	Long Range Transp. Plan (MTP)														
1	Collection of Base Year Data	\$800	\$3,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800	\$0	\$3,200	\$4,000
2	Collection of Network Data	\$240	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$240	\$0	\$960	\$1,200
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Transit Element of the MTP	\$300	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300	\$0	\$1,200	\$1,500
11	Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Congestion Management Strategies	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100	\$0	\$400	\$500
18	Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
1	Short Range Transit Planning	\$300	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300	\$0	\$1,200	\$1,500
III-A	Planning Work Program														
	Planning Work Program	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500
III-B	Transp. Improvement Plan														
	TIP	\$900	\$3,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900	\$0	\$3,600	\$4,500
III-C	Cvl Rgts. Cmp/Otr. Reg. Reqs.														
1	Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0	\$4,000	\$5,000
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Special Studies	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500
4	Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-E	Management & Operations														
1	Management & Operations	\$340	\$1,360	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$340	\$0	\$1,360	\$1,700
Totals		\$6,080	\$24,320	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,080	\$0	\$24,320	\$30,400

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

II-A-1 Traffic Volume Counts

The Town will provide local traffic count data, collected for various local planning purposes, as needed for the Congestion Management Process or other MPO activities. The Town will also conduct additional traffic counts, as needed, for other plans or studies that relate to traffic congestion or safety.

Objectives

To collect local traffic count data relevant to the CMP, TRM model analysis, the Town's residential traffic management plan, or other studies.

Previous Work

In FY 2020, the Town submitted traffic count data as had been collected in support of local studies.

Proposed Activities

1. Continue to collect traffic data relating to local traffic calming requests
2. Provide traffic data and reports as needed for the previously mentioned MPO activities
3. Work with LPA staff on determining best traffic count locations for MRC and other studies

Products

Traffic volume data from as recent a year as possible.

Relationship to other plans and MPO activities

Data will be used for the CMP and MRC. Counts may be helpful in determining focus areas for TDM strategies, the Triangle Regional Model (TRM), the Town's conceptual Slow Zone plan, and responding to citizen inquiries for safety improvements on NCDOT maintained facilities.

Proposed budget and level of effort

All work to be completed by the Transportation Planner; Local Staff Hours: 30 Hours

II-A-10 Mapping.

Town staff will update geo-spatial mapping for the roadway network, bike-ped network, SE data, development proposals/permits/COs, bike-pedestrian networks and facilities, and elements of the 2050 MTP.

Objectives

To support mapping activities for the 2050 MTP, the TRM update, and generate maps as needed for other MPO or Town transportation planning tasks.

Previous Work

The Town provided local socioeconomic data for the 2040 and 2045 MTPs. Reviewed and modified CommunityViz 2040 and 2045 MTP place type and development status categories. The Town edited employment shapefile in Employment Analyst in preparation for the 2045 MTP, analyzed residential and employment density in the vicinity of bus stops for the Orange County Bus and Rail Investment Plan, provided downtown Carrboro parking inventory maps, and regularly updated transportation shapefiles based on new developments and completed projects.

Proposed Activities

1. Review results of Community Viz and edit data as necessary
2. Review maps made for the MTP, CTP, and other MPO-related activities

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

3. Provide any data or maps as requested by the LPA
4. Maintain current GIS data for all transportation planning activities in Carrboro
5. Track changes to Carrboro's Street System and update associated GIS files

Products

1. Generate the following GIS shape files, SE data, development review/proposals, permits, COs, bike-pedestrian networks and facilities, data collection location base maps, etc.
2. Up to date GIS shapefile of Carrboro streets
3. Up to date GIS shapefile of Carrboro Bicycle and Pedestrian Networks

Relationship to other plans and MPO activities

2050 MTP, Carrboro Parking Plan, CHT NS-BRT Project, 2019 Bicycle Plan Update, Town Comprehensive Plan

Proposed budget and level of effort

40 percent of work to be completed by the Transportation Planner; 60 percent of work to be completed by GIS Analyst; Local Staff hours: 70 hours

II-A-11 Central Area Parking Inventory.

Town staff will inventory on- and off-street parking facilities in the Central Business Districts (CBD) and universities. Parking data to be collected include, number of spaces, parking fee rates (hourly daily, and monthly), average weekday costs and demand/occupancy.

Objectives

To develop and maintain a complete inventory of public and private parking spaces in downtown Carrboro, and in other areas as needed. Parking inventory will be analyzed before, during, and after construction of the 203 South Greensboro project to determine the effectiveness of strategies aiming to partner with local businesses that have excess parking available and facilitate their use to meet current and future parking needs.

Previous Work

The Town maintains an inventory of all municipal parking spaces. Parking studies and inventories were conducted by UNC graduate students in 2008 and 2014. In 2015-2016 the Town enlisted a consultant to conduct a major parking inventory and study of the downtown area.

Proposed Activities

1. Database of parking facilities
2. GIS shape files containing parking data
3. Use recommendations from parking study to inform Town parking policies

Products

1. Shapefile with parking space count data and attributes
2. Spreadsheet with parking space count data and attributes

Relationship to other plans and MPO activities

Carrboro Downtown Parking Study, 2050 MTP, Bicycle Plan Update, Town Comprehensive Plan

Proposed budget and level of effort

100 percent of work to be completed by Transportation Planner; Local staff hours: 10 hours

Town of Carrboro
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II-A-13 Bike & Ped Counts.

The Town will contribute existing bicycle and pedestrian traffic information for local and regional planning processes as needed. The Town will continue to conduct bike and pedestrian counts as part of the traffic calming process and Safe Routes to School program.

Objectives

To collect continuous, reliable pedestrian and bicycle volume data that can be averaged over time and disaggregated for independent variables such as month, time, and weather. The Town will also supply bicycle and pedestrian network changes for regional planning processes.

Previous Work

The Town has collected bicycle and pedestrian data for a number of planning processes, including the 2009 Comprehensive Bicycle Transportation Plan, 2019 Bicycle Plan Update, and regional Mobility Report Card. The Town participated in a pilot program with the MPO/ITRE that installed pedestrian and bicycle counters on the Libba Cotten Bikeway and on Old NC 86, just north of the intersection with Old Fayetteville Road, and assumed control of these counters in late 2016.

Proposed Activities

1. Review data collected by bike-ped counters previously installed by ITRE/MPO, and use counts for Town analysis and MPO data collection
2. Continue to conduct bicycle and pedestrian counts
3. Continue to monitor and update the bicycle and pedestrian network
4. Work with LPA staff to coordinate additional data collection efforts

Products

1. Spreadsheets or tally sheets with bicycle and pedestrian counts

Relationship to other plans and MPO activities

2050 MTP, Mobility Report Card, and 2019 Bicycle Plan Update.

Proposed budget and level of effort

100 percent of work to be completed by Transportation Planner; Local Staff hours: 20 hours

II-B-1 Collection of Base Year Data.

The Town will assist the MPO with collection and development of base year model data using Community Viz and Employment Analyst and QA/QC the resulting data.

Objectives

Develop base year socioeconomic data in support of the TRM update

Previous Work

The Town has assisted the MPO in the past to develop updated to the TRM.

Proposed Activities

1. Develop control totals for residential and employment data
2. Participate in meetings discussing and reviewing base year data collection

Town of Carrboro
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Products

1. Tabulation of development review proposals, building permits, and Certificate of Occupancies (since they were last submitted) summarized and submitted to the LPA
2. Review base year data and shapefiles, provide comments as needed.

Relationship to other plans and MPO activities

2050 MTP and TRM update

Proposed budget and level of effort

50 percent of work to be completed by Transportation Planner; 30 percent of work to be completed by GIS Analyst; 20 percent of work to be completed by Planning Administrator; Local Staff hours: 80 hours

II-B-2 Collection of Network Data.

The Town will continue to coordinate with the MPO in the collection and creation of network data in support of the TRM update and 2050 MTP.

Objectives

To provide local data needed to create an accurate network for the TRM update.

Previous Work

The Town has contributed to network review and data collection for development of both the 2040 and 2045 MTP.

Proposed Activities

1. Contribute local network data as needed
2. Review network data and provide comments as needed

Products

1. Network data and review for the 2050 MTP & TRM update

Relationship to other plans and MPO activities

2050 MTP, TRM update, CMP

Proposed budget and level of effort

100 percent of work to be completed by Transportation Planner; Local Staff hours: 24 hours

II-B-10 Transit Element of the MTP.

Support evaluation of transit projects as part of the 2050 MTP including BRT, Commuter Rail, and other activities.

Objectives

Provide input and evaluation for proposed transit projects and participate in regional transit planning efforts to facilitate development of the 2050 MTP.

Previous Work

Town staff has participated in regional planning efforts related to the DO-LRT, Chapel Hill Bus Rapid Transit, Orange County Transit Plan, and other transit projects.

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
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Proposed Activities

Town staff will assist in the evaluation of transit preferred options, update of the 2045 transit tables and attributes, and geodatabase of transit preferred option, and final 2045 projects

Products

1. Participation in regional planning meetings
2. Evaluation and feedback on preferred options

Relationship to other plans and MPO activities

2050 MTP, Orange County Transit Plan, CHT NSBRT, CHT SRTP

Proposed budget and level of effort

75 percent of work to be completed by Transportation Planner; 25 percent of work to be completed by Planning Administrator; Local staff hours: 30 hours

II-B-17 Congestion Management Strategies.

The MPO is maintaining a Congestion Management Process (CMP) to address congestion within the metropolitan area boundary. The Town will contribute planning resources to this process as well as the Mobility Report Card and continued analysis of downtown Carrboro congestion

Objectives

To contribute to the ongoing development of the CMP, MRC, and continue research and analysis on downtown Carrboro traffic level of service (LOS).

Previous Work

The Town has contributed to the CMP and previous Mobility Report Cards. The Town has also conducted a number of local studies related to traffic and congestion within Town boundaries. Town staff has also worked on Transportation Demand Management efforts as a strategy for decreasing congestion.

Proposed Activities

Evaluation of CMP and MRC networks, review of products and analyses

Products

1. GIS shapefile of sub-areas as requested

Relationship to other plans and MPO activities

CMP, 2050 MTP, Mobility Report Card, TDM and Town Parking Feasibility Study

Proposed budget and level of effort

100 percent of work to be completed by Transportation Planner; Local staff hours: 10 hours

II-C-1 Short Range Transit Planning.

The Town will participate in short-range transit planning for the region, with a focus on the Chapel Hill-Carrboro area. Through the Transit Partners Committee, the Town will provide input on Chapel Hill Transit planning initiatives, including the Bus Rapid Transit project and the completion of the short range transit plan. The Town will coordinate with Orange County, GoTriangle, and the MPO on the update and implementation of the revised Orange County Transit Plan.

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Objectives

To ensure that Carrboro plays a key role in Chapel Hill Transit planning, capital investment, and operations by continuing to work with Chapel Hill Transit on new initiatives, short range planning, public involvement, and troubleshooting. The Town will also assist as needed in implementation of the Orange County Transit Plan.

Previous Work

Town of Carrboro elected officials, advisory board members, and staff regularly attend Chapel Hill Transit Partners Committee meetings and N-S Corridor Study meetings and the short range transit plan meetings.

Proposed Activities

1. Continue to participate in Transit Partners Committee, and staff working groups
2. Attend staff working group meetings to implement the Orange County Transit Plan, including the development of service improvements and capital projects as part of adopted transit plans, including providing information on transit access and service priorities
3. Review on-board transit survey information as it pertains to Carrboro and Carrboro ridership as part of the short-range and long-range planning efforts
4. Work with LPA staff on the 5-year plan

Products

1. Provide feedback and comments on local short range transit planning activities
2. Implementation and construction of small capital infrastructure projects for the Town of Carrboro using Orange County Transit Plan funds as identified in the adopted plan.

Relationship to other plans and MPO activities

OC Transit Plan, 2050 MTP, Chapel Hill Transit NSBRT, and short range transit plan.

Proposed budget and level of effort

65 percent of work to be completed by Transportation Planner; 35 percent of work to be completed by Planning Administrator; Local staff hours: 30 hours

III-A-1 Planning Work Program.

Development of the FY23UPWP, process amendment of the FY21 UPWP as necessary, prepares quarterly invoice and reimbursement requests. The Town will administer the FY 2021 UPWP, and prepare and process amendments as needed. Town staff will participate in UPWP oversight meetings with MPO staff and staff from other MPO member jurisdictions.

Objectives

To track and report on Carrboro's FY2021 UPWP activities, and process amendments to the UPWP if necessary. The Town will submit Carrboro's portion of the FY2021 UPWP to the MPO and participate in oversight of the UPWP process.

Previous Work

Town staff has prepared UPWPs each year and tracked the completion of UPWP tasks with quarterly progress reports. Progress reports have made clear how much funding remains for tasks in the fiscal year, guiding whether or not amendments are necessary. Town staff has also participated in LPA oversight meetings.

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Proposed Activities

1. Complete quarterly reports for the 2021 UPWP
2. Complete amendment spreadsheets as needed
3. Prepare Carrboro's 2023 UPWP documents and budget
4. Attend LPA oversight meetings and review documents.

Products

1. Development of draft and final FY22 UPWP
2. Quarterly invoices and reports
3. Amendment of UPWP as necessary
4. Transmittal of documentation, work products/deliverable highlighted elsewhere to the LPA

Relationship to other plans and MPO activities

Required by federal law, the UPWP is the mechanism for regional transportation planning and coordination in the MPO. It allocates a portion of STP-DA and transit funding received by the MPO for planning activities.

Proposed budget and level of effort

80 percent of work to be completed by Transportation Planner; 20 percent of work to be completed by Planning Administrator; Local staff hours: 50 hours

III-B-1 Transportation Improvement Plan.

Town staff will continue to implement planning, design, and construction of TIP projects. Town staff will assist with MTIP development and SPOT 6.0 activities.

Objectives

To facilitate timely progress on TIP projects and process amendments when necessary. The Town will continue to participate in review and coordination regarding the SPOT 6.0 prioritization process.

Previous Work

The Homestead- Chapel Hill High School Multi-Use Path (U-4726-DE) was completed in 2019. The installation of Bicycle Loop Detectors (U-4726-DF) in the downtown and the Rogers Road Sidewalk (U-4726-DD) should also be completed in 2020. Other projects currently underway include Morgan Creek Greenway Phases 1 and 2 (EL-4828) and Jones Creek Greenway (C-5181). Design work on the South Greensboro Street sidewalk (C-5650) should also be nearing completion.

Proposed Activities

1. Continue implementation of projects currently underway
2. Process MTIP amendments as necessary
3. Assist in SPOT 7.0 process
4. NEPA documentation for TIP projects and other pre-TIP planning activities

Products

1. 2021-2030 MTIP local agencies' supplement
2. MTIP amendments
3. Summary of public involvement activities
4. STP-DA/TAP project delivery status
5. SPOT 7 local prioritization and points assignments
6. STP-DA obligated projects

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

7. Approved NEPA documents as related to TIP projects

Relationship to other plans and MPO activities

2021-2030 TIP, 2050 MTP, Orange County Transit Plan, CMAQ funding.

Proposed budget and level of effort

50 percent of work to be completed by Transportation Planner; 50 percent of work to be completed by Planning Administrator; Local staff hours: 80 hours

III-C-6 Public Involvement.

The Town will continue to provide for an open exchange of information and ideas between the public and transportation decision-makers. The Town will work to increase public participation in transportation planning issues at the local and regional (MPO) levels.

Objectives

To participate in and contribute to MPO-related meetings and adhere to the goals and tasks laid out in the Unified Planning Work Program. Town staff will ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues. Town staff will also ensure the local transportation advisory board and planning board both have the information it needs to develop sound recommendations on local and regional transportation issues. To improve staff efficiency and knowledge through training sessions and educational materials.

Previous Work

The Town will continue its public activities in FY 2021, similar to proposed activities described below, and will include increasing use of social media for notice of local matters on transportation matters and of MPO meetings and input opportunities. Public involvement occurs for most development review processes, already.

Proposed Activities

1. Participation in MPO development of public outreach planning, databases, and evaluation
2. Assistance in MPO public input opportunities for the 2050 MTP, MRC, and Orange County Transit Plan.
3. Various public input opportunities as they arise including greenway design, NSBRT, traffic calming requests, and lane reallocations.
4. Work to engage traditionally underrepresented groups (minorities, non-English speakers, elderly, and disabled) in the planning process.

Products

1. Staff reports for Board of Aldermen and advisory board meetings
2. Update public involvement mailing list (and email address).
3. Summary of public involvement activities, including means of advertisement, attendance, and response to comments.

Relationship to other plans and MPO activities

This task supports all plans and MPO activities.

The Town will continue to provide for an open exchange of information and ideas between the public and transportation decision-makers. The Town will work to increase public participation in transportation planning issues at the local and regional (MPO) levels.

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Proposed budget and level of effort

50 percent of work to be completed by Transportation Planner ; 50 percent of work to be completed by Planning Administrator ; Local staff hours: 100 hours

III-D-3 Special Studies.

Town staff will continue to conduct special studies related to local transportation issues.

Objectives

To participate in and use the recommendations from the Estes Road corridor study toward the preliminary design for bike-ped improvements on Estes Drive. To develop a Town-wide comprehensive plan, including a local transportation element which can be used to inform local priorities to be included in the 2050 MTP.

Previous Work

The Town has engaged in transportation-related studies such as the Comprehensive Bicycle Plan Update, conceptual and design plans for various greenway projects, the Safe Routes to School Action Plan, the West Main Street Road Diet Study, the Downtown Carrboro Parking Study, the NC 54 West Corridor Study, and the NC 54 Bike-Ped Safety Study (in partnership with Chapel Hill).

Proposed Activities

1. Other transportation planning activities related to the Town's Comprehensive Plan.
2. Participation in corridor study of Estes Drive (funded by the Orange County Transit Plan)
3. Review other Town plans and studies as necessary

Products

1. Estes Drive Corridor Study
2. Related data for use by MPO
3. Transportation Element of local Comprehensive Plan

Relationship to other plans and MPO activities

2050 MTP, CMP, 2019 Comprehensive Bicycle Plan Update, Downtown Parking Study

Proposed budget and level of effort

50 percent of work to be completed by Transportation Planner; 50 percent of work to be completed by Planning Administrator; Local Staff hours: 50 hours

III-E-1 Management and Operations.

Administrative tasks necessary to maintaining the 3C planning process will be completed.

Objectives

To participate in and contribute to MPO-related meetings and adhere to the goals and tasks laid out in the Unified Planning Work Program. Town staff will ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues. Town staff will also ensure the local transportation advisory board has the information it needs to develop sound recommendations on local and regional transportation issues. To improve staff efficiency and knowledge through training sessions and educational materials.

Town of Carrboro
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Previous Work

Similar to proposed activities described below.

Proposed Activities

1. Attend and participate in MPO Board, TC meetings, and subcommittee meetings
2. Prepare materials and present to the local elected officials related to local and regional transportation planning topics
3. Facilitate Transportation Advisory Board meetings by creating agendas, minutes, and staff reports

Products

Staff reports for Board of Aldermen and advisory board meetings

Relationship to other plans and MPO activities

This task supports all plans and MPO activities.

Proposed budget and level of effort

60 percent of work to be completed by Transportation Planner; 40 percent of work to be completed by Planning Administrator; Local staff hours: 30

Town of Chapel Hill

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$841	\$3,362	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$841	\$0	\$3,362	\$4,203
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$870	\$870	\$6,960	\$0	\$0	\$0	\$870	\$870	\$6,960	\$8,700
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$2,055	\$8,221	\$0	\$0	\$3,122	\$3,122	\$24,976	\$0	\$0	\$0	\$5,177	\$3,122	\$33,197	\$41,496
11	Central Area Parking Inventory	\$420	\$1,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$420	\$0	\$1,682	\$2,102
12	Bike & Ped. Facilities Inventory	\$1,308	\$5,232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,308	\$0	\$5,232	\$6,540
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$856	\$856	\$6,848	\$0	\$0	\$0	\$856	\$856	\$6,848	\$8,560
II-B	Long Range Transp. Plan (MTP)														
1	Collection of Base Year Data	\$0	\$0	\$0	\$0	\$288	\$288	\$2,304	\$0	\$0	\$0	\$288	\$288	\$2,304	\$2,880
2	Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of the MTP	\$1,775	\$7,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,775	\$0	\$7,100	\$8,875
10	Transit Element of the MTP	\$0	\$0	\$0	\$0	\$653	\$653	\$5,224	\$0	\$0	\$0	\$653	\$653	\$5,224	\$6,530
11	Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Plannin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$1,214	\$4,858	\$0	\$0	\$820	\$820	\$6,560	\$0	\$0	\$0	\$2,034	\$820	\$11,418	\$14,272
17	Congestion Management Strategies	\$1,682	\$6,726	\$0	\$0	\$952	\$952	\$7,616	\$0	\$0	\$0	\$2,634	\$952	\$14,342	\$17,928
18	Air Qual. Planning/Conformity Ana	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$488	\$488	\$3,904	\$0	\$0	\$0	\$488	\$488	\$3,904	\$4,880
III-A	Planning Work Program														
1	Planning Work Program	\$654	\$2,616	\$0	\$0	\$488	\$488	\$3,904	\$0	\$0	\$0	\$1,142	\$488	\$6,520	\$8,150
III-B	Transp. Improvement Plan														
1	TIP	\$4,204	\$16,816	\$0	\$0	\$2,839	\$2,839	\$22,712	\$0	\$0	\$0	\$7,043	\$2,839	\$39,528	\$49,410
III-C	Civil Rgts. Cmp./Otr .Reg. Reqs.														
1	Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$240	\$240	\$1,920	\$0	\$0	\$0	\$240	\$240	\$1,920	\$2,400
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$1,868	\$7,474	\$0	\$0	\$606	\$606	\$4,848	\$0	\$0	\$0	\$2,474	\$606	\$12,322	\$15,402
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Special Studies	\$2,803	\$11,210	\$0	\$0	\$1,624	\$1,624	\$12,992	\$0	\$0	\$0	\$4,427	\$1,624	\$24,202	\$30,253
4	Regional or Statewide Planning	\$2,335	\$9,342	\$0	\$0	\$1,680	\$1,680	\$13,440	\$0	\$0	\$0	\$4,015	\$1,680	\$22,782	\$28,477
III-E	Management & Operations														
1	Management & Operations	\$1,401	\$5,605	\$0	\$0	\$1,624	\$1,624	\$12,992	\$0	\$0	\$0	\$3,025	\$1,624	\$18,597	\$23,246
Totals		\$22,561	\$90,244	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$39,711	\$17,150	\$227,444	\$284,304

Town of Chapel Hill
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Task II-A-1: Traffic Volume Counts

The Town of Chapel Hill will conduct local traffic counts for planning purposes and provide data to DCHC-MPO as needed. The locations will be located in the downtown, Blue Hill District, and other sites where development occurs. The data will serve to support local plans and feed into the MPO Congestion Mitigation Process and other regional studies. Town staff have formed a traffic analytics working group to collect and analyze traffic data in Town. The Town will build and utilize a Town-wide model for more in depth traffic analysis.

Objectives

- Collect local traffic counts
- Build Town-wide traffic model
- Gather traffic counts as components of development TIAs

Previous Work

- Local traffic counts for studies/plans
- Traffic Impact Analyses related to proposed developments
- Mobility Report Cards
- Traffic model for the Blue Hill District

Proposed Activities

- Collect traffic data
- Build Town-wide model
- Manage TIA evaluation study
- Provide traffic data and reports to MPO
- Work with LPA staff to determine traffic count locations for MRC and other studies

Products

- Traffic volume data

Relationship to other plans and MPO activities

CMP, Mobility Report Card and TRM, Chapel Hill traffic analytics

Proposed budget and level of effort

Task will be undertaken by Transportation Planner and Division Manager. **90 hours**

Task II-A-10: Mapping

The Town of Chapel Hill will continue to undertake tasks associated with mapping and updates to UPWP transportation planning activities such as the CMP, MTP, CTP, TIP, SPOT, traffic counts, bicycle and pedestrian counts and inventory, transit routes, land use, development review, socio-economic and demographic trends, and environmental factors. The Town mapping and spatial GIS products will support the MPO overall GIS and geo-spatial management system.

Objectives:

- Provide maps for use in various MPO planning activities
- Update base maps
- Update and maintain geo-spatial maps
- Provide mapping support for Community Viz, modeling, MTP, CTP, etc.

Town of Chapel Hill
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- Maintain GIS-Online

Previous Work:

- Mapping for 2040 & 2045 MTP, SPOT processes, and STIP projects
- Traffic/bike-ped count locations
- Special projects

Proposed Activities:

- Collect updated geospatial information
- Create files and maps containing MPO transportation information

Products:

- Maps for various MPO planning activities
- Region-wide GIS files
- Geo-spatial mapping
- ArcGIS Online

Relationship to Other Plans and MPO Activities:

Triangle Regional Model, MTP, CTP, CMP, Mobility Report Card, MTIP development, SPOT, land-use scenarios

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners. **220 hours**

Task II-A-11: Central Area Parking Inventory

The Town of Chapel Hill will continue to update the model of existing parking in the downtown, which includes number of spaces, fees, and demand/occupancy data. The Town will share this data with the MPO as requested.

Objectives:

- Develop and maintain a complete inventory of public and private parking spaces in downtown Chapel Hill
- Analyze demand for parking as related to competition for right-of-way

Previous Work:

- Updated the inventory and model as part of the Downtown Circulation Study

Proposed Activities:

- Update database of downtown parking facilities
- GIS shape files containing parking data
- Study existing and future parking need in Downtown

Products:

- Shapefile and spreadsheet with parking space count data and attributes

Relationship to other plans and MPO activities:

MTP, Chapel Hill Mobility and Connectivity Plan, NCDOT TIP projects

Town of Chapel Hill
TASK DESCRIPTIONS & NARRATIVES
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Proposed budget and level of effort:

Task will be undertaken by the Transportation Planners and Division Manager. **45 hours**

Task II-A-12: Bike & Ped Facilities Inventory

The Town of Chapel Hill will maintain and update the existing inventory of bicycle and pedestrian facilities throughout the community. This inventory will assist in MPO-related projects. It will also allow the Town to identify new bike-ped projects to submit to SPOT and other funding sources.

Objectives:

- Provide inventories of bicycle and pedestrian facilities for use in MPO planning activities
- Update base maps of bicycle and pedestrian networks

Previous Work:

- Database of bicycle and pedestrian facilities

Proposed Activities:

- Collect updated data on bicycle and pedestrian facilities
- Monitor new construction and incorporate into base data
- Create files and maps containing MPO transportation information

Products:

- Updated bike-ped GIS maps and attributes
- Updated database

Relationship to Other Plans and MPO Activities:

2045 MTP, CTP, Mobility Report Card, Mobility and Connectivity Plan

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **140 hours**

Task II-B-9: Highway Element of MTP

The Town of Chapel Hill will assist and support the MPO on the evaluation of highway elements of the 2045 MTP. Staff will work to evaluate and implement highway projects from the adopted 2045 MTP. Staff will participate in the CTP 2.0 process and the 2050 MTP. Town of Chapel Hill will assist MPO staff in finalizing the US 15-501 Corridor Study, and NCDOT in other roadway studies as necessary.

Objectives:

- Work with NCDOT to develop designs for highway projects in Chapel Hill
- Design local roadway projects from adopted 2045 MTP and SPOT
- Assist in development of US 15-501 Corridor Study and others

Previous Work:

- 2040 and 2045 MTP
- Travel demand forecast
- Capacity deficiency analysis

Proposed Activities:

- Finalize design of Elliott Road Extension and begin construction

Town of Chapel Hill
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- Design local roadways in 2045 MTP
- Work with NCDOT and consultants to design highways in MTP
- Attend meetings and provide data for the US 15-501 Corridor Study and others

Products:

- Roadway design for Elliott Road Extension
- Designs for NC 54, US 15-501, I-40/NC 86
- MPO Corridor Study for US 15-501 and others

Relationship to Other Plans and MPO Activities:

2045 MTP and CTP, STIP/TIP.

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **190 hours**

Task II-B-16: Financial Planning

The Town of Chapel Hill will participate and assist the MPO and GoTriangle in developing revenue and expenditure assumptions and data related to the Orange County Transit Plan and other MPO-related finances. Town staff will develop cost estimates and budgets for SPOT submissions, TIP projects, other projects from the 2045 MTP, and monitor budgets of projects underway.

Objectives:

- Provide financial information as necessary to the Orange County Transit Plan
- Monitor update and implementation of the Orange County Transit Plan
- Create, adopt and monitor budgets for TIP projects
- Cost estimates for SPOT submissions and internal CIP projects

Previous Work:

- Financial element of the 2040 & 2045 MTP
- Orange County Transit Plan financial element
- Budgets for existing TIP and MTP projects

Proposed Activities:

- Monitor financial reporting from GoTriangle for Orange County Transit Plan
- Submit necessary documentation to GoTriangle for OC Transit Plan projects
- Attend Orange County Transit Plan Staff Working Group meetings
- Budget work for Town and regional TIP projects

Products:

- Updated Orange County Transit Plan financial element
- Quarterly invoices and reports for OC Transit Plan projects
- Cost estimates and budgets for TIP and SPOT projects

Relationship to Other Plans and MPO Activities:

Annual UPWP, TIP, 2045 MTP, Orange County Transit Plan

Proposed Budget and Level of Effort (Staff):

Task will be undertaken primarily by the Division Manager. **130 hours**

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Task II-B-17: Congestion Management Strategies

The Town of Chapel Hill will continue to work with the MPO to refine the collection and analysis of data related to the congestion management system for the MPO. Town staff will prepare information and analysis specific to congestion in Chapel Hill and develop strategies to address these issues. Town staff will also coordinate Transportation Demand Management (TDM) activities for numerous businesses in Chapel Hill as well as the general public. The Chapel Hill TDM program is part of a larger regional effort that is responsible in part to the MPO.

Objectives:

- Identify areas of congestion within the Town based on count information and community survey responses
- Develop strategies to address congested corridors and key intersections
- Prepare biannual report for Town Council highlighting key issues and proposed recommendations
- Coordinate with MPO staff to develop regional CMS
- Promote TDM to Chapel Hill businesses, including Town Hall

Previous Work:

- Coordination with MPO for collection of 2016 data
- Ongoing TDM efforts
- Previous biennial traffic signal timing studies

Proposed Activities:

- Coordinate with MPO on data collection
- Support MPO development of MPO CMS
- Continue local traffic analysis
- Continue TDM activities throughout Town

Products:

- MPO CMS Report
- Chapel Hill data for Mobility Report Card
- Results from biannual TDM survey

Relationship to Other Plans and MPO Activities:

MPO CMS Report, MTP, and regional TDM

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **180 hours**

Task III-A: Planning Work Program

Administer the Chapel Hill element of the FY21 UPWP that describes all transportation and transportation-related planning activities anticipated within the Town of Chapel Hill and DCHC MPO planning area. Staff will prepare and process quarterly reports and amendments as needed. Evaluate transportation planning work needs and emphasis areas and prepare the FY 22 UPWP.

Objective:

- Administer the FY21 UPWP
- Develop, maintain, and complete the UPWP quarterly reports and invoices

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- Prepare UPWP amendments as necessary
- Prepare the FY22 UPWP

Previous Work:

- Previous UPWPs

Proposed Activities:

- Review and amend relevant portions of the FY21 UPWP
- Prepare and submit quarterly reports
- Develop the FY22 UPWP
- Attend MPO Oversight Committee meetings as required

Products:

- Amendments to the current UPWP as necessary
- Quarterly reports for current UPWP
- FY22 UPWP

Relationship to Other Plans and MPO Activities:

The UPWP captures work required for all other plans and MPO activities.

Proposed Budget and Level of Effort (Staff):

Task will be undertaken primarily by the Division Manager. **70 hours**

Task III-B-1: Transportation Improvement Program

The Town of Chapel Hill will assist the MPO in developing projects for consideration in the next update of the STIP/TIP. Staff will participate in finalizing SPOT 6.0 priorities and developing the STIP. Town staff will also work to implement projects currently in the STIP, including bike-ped improvements on Old Durham Road, Estes Drive, Estes Drive Extension, and the sidepath on US -15-501, as well as NCDOT STIP projects.

Objectives:

- Finalize SPOT 6.0 process and develop STIP
- Plan and implement projects in current and previous STIPs

Previous Work:

- Development of projects for SPOT 4.0 and 5.0
- TIP project planning and implementation

Proposed Activities:

- Finalize SPOT 6.0 and develop STIP
- Prepare TIP amendments as necessary
- Plan and implement current and past STIP projects

Products:

- Final project submissions for SPOT 6.0
- TIP amendments as necessary
- Budgets and plans for new STIP projects
- Status updates on existing STIP projects

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Relationship to Other Plans and MPO Activities:

2040/2045 MTP and CTP, Chapel Hill Mobility and Connectivity Plan

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **450 hours**

Task III-C-6 Public Involvement

The Town of Chapel Hill will ensure that public input and participation is part of the transportation planning process. This will be done through public meetings, workshops, pop-up meetings, social media outreach, and community surveys.

Objectives:

- Obtain input from all Chapel Hill populations

Previous Work:

- Public meetings for past transportation studies and projects
- Biennial Community Surveys
- Tabling at community events

Proposed activities:

- Hold public meetings/workshops/pop-up events in the community
- Conduct 2020 Community Survey

Products:

- Record of public input opportunities

Relationship to Other Plans and MPO Activities

STIP/TIP, Mobility and Connectivity Plan, 15-501 Corridor Study, NC 54 Ped Safety Study

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **200 hours**

Task III-D-3 Special Studies

Participate in ongoing special studies, including multiple US 15-501 Feasibility & Corridor Studies, NC 54 NEPA/Design and transit feasibility, Downtown loading zone task force, Chapel Hill traffic analytics, N-S BRT, and others.

Objectives:

- Provide staff support to special studies that impact the DCHC MPO

Previous Work:

- Staff assistance to US 15-501 Feasibility Study and Corridor Study
- Draft Blue Hill TIA
- N-S BRT alternatives analysis

Proposed activities:

- Attend coordination meetings

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- Prepare data on request
- Provide updates to elected officials
- Continue work on other studies that impact the DCHC MPO

Products:

- Completed special studies

Relationship to Other Plans and MPO Activities

CTP, MTP and STIP/TIP, CMP, Mobility Report Card, TRM, and others

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **300 hours**

Task III-D-4: Regional or Statewide Planning

The Town will continue to work with GoTriangle to implement specific elements of regional transit and the Orange County Transit Plan. The Town will continue to collaborate on projects with NCDOT, the Town of Carrboro, Durham, UNC and Orange County.

Objectives:

- Coordinate with regional partners to study high capacity transit options
- Continue collaboration on other existing and new projects with regional/state partners

Previous Work:

- Coordinated with GoTriangle on the Station Area Grant application and the DEIS for DOLRT
- Collaborated with NCDOT and regional partners on numerous studies and projects

Proposed Activities:

- Attend meetings with regional partners related to transit options
- Prepare small area plans and other related land use changes along BRT corridor
- Work with regional partners on plans and projects as needed

Products:

- High capacity transit plans for major regional corridors
- Updated land use plans, particularly related to BRT corridor
- Other regional studies and plans

Relationship to Other Plans and MPO Activities:

MTP, the Orange/Durham County Transit Plans, and STIP/TIP

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **250 hours**

Task III-E: Management and Operations

The Town will assist and support the DCHC MPO efforts in complying with federal requirements. Town staff will attend DCHC MPO and other regional meetings. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes, attending trainings/conferences, and performing other administrative duties related to being a MPO member jurisdiction. Town staff also manages meetings for the Transportation and Connectivity

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Advisory Board and frequently presents MPO-related information and plans to the Town Council.

Objectives:

- Perform all tasks necessary to conduct successful and forward-thinking transportation planning in the Town of Chapel Hill
- Fulfill duties of MPO member jurisdiction
- Keep Advisory Board and Town Council informed of transportation-related activities

Previous Work:

- Attended MPO TC, Board, and sub-committee meetings
- Liaised to the Transportation and Connectivity Advisory Board

Proposed Activities:

- Attend all MPO TC, Board and sub-committee meetings
- Provide technical assistance to the MPO
- Staff Town Advisory Board meetings
- Brief Town MPO Board representatives prior to each meeting
- Review and comment on federal and state transportation-related plans, programs, regulations and guidelines pertaining to the Town of Chapel Hill
- Present to Council as necessary and appropriate

Products:

- Attendance at MPO meetings
- Feedback and comments from Council and advisory boards as appropriate

Relationship to Other Plans and MPO Activities:

This task supports all plans and MPO activities.

Proposed Budget and Level of Effort (Staff or Consulting):

Task will be undertaken by Transportation Planners and Division Manager. **150 hours**

City of Durham & GoDurham

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local		FTA				
		20%	80%	20%	80%	10%	10%	80%	20%		80%				
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$8,076	\$8,076	\$64,608	\$11,084	\$44,336	\$19,160	\$8,076	\$108,944	\$136,180	
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan (MTP)														
1	Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of the MTP	\$865	\$3,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$865	\$0	\$3,459	\$4,324	
10	Transit Element of the MTP	\$1,730	\$6,918	\$0	\$0	\$326	\$326	\$2,608	\$1,016	\$4,064	\$3,072	\$326	\$13,590	\$16,988	
11	Bicycle & Ped. Element of the MTP	\$865	\$3,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$865	\$0	\$3,459	\$4,324	
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$19,668	\$78,672	\$19,994	\$326	\$81,280	\$101,600	
17	Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$2,610	\$2,610	\$20,880	\$21,124	\$84,496	\$23,734	\$2,610	\$105,376	\$131,720	
III-A	Planning Work Program														
	Planning Work Program	\$432	\$1,730	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$432	\$0	\$1,730	\$2,162	
III-B	Transp. Improvement Plan														
	TIP	\$3,459	\$13,836	\$0	\$0	\$653	\$653	\$5,224	\$2,036	\$8,144	\$6,148	\$653	\$27,204	\$34,006	
III-C	Cvl Rgts. Cmp./Otr. Reg. Reqs.														
1	Title VI	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$736	\$2,944	\$1,062	\$326	\$5,552	\$6,940	
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$865	\$3,459	\$0	\$0	\$326	\$326	\$2,608	\$1,972	\$7,888	\$3,163	\$326	\$13,955	\$17,444	
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$3,892	\$15,566	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,892	\$0	\$15,566	\$19,458	
3	Special Studies	\$4,324	\$17,296	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,324	\$0	\$17,296	\$21,620	
4	Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-E	Management & Operations														
1	Management & Operations	\$865	\$3,459	\$0	\$0	\$5,207	\$5,207	\$41,656	\$4,328	\$17,312	\$10,400	\$5,207	\$62,427	\$78,034	
Totals		\$17,296	\$69,182	\$0	\$0	\$17,850	\$17,850	\$142,800	\$61,964	\$247,856	\$97,110	\$17,850	\$459,838	\$574,798	

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II-B-9: Highway Element of the MTP

The MPO will continue maintenance of highway elements of the Comprehensive Transportation Plan and Metropolitan Transportation Plan. The City will assist and support the MPO efforts. Specifically, the City will assist in the evaluation of any needed amendments to the plans. Also, the City will identify and evaluate highway facilities to be included as part of the MPO highway component of the CTP and MTP.

Objectives:

1. To identify a list of highway projects based on travel demand and deficiencies;
2. To develop a series of highway alternatives (i.e., set of highway projects with a distinct objective); and,
3. To develop key data for each highway project such as capacity, length, alignment, cost, implementation year, etc.

Previous Work:

1. 2045 MTP;
2. Congestion Management Process;
3. Triangle Regional Model;
4. Travel demand forecast; and,
5. Capacity deficiency analysis.

Proposed Activities:

1. Establish evaluation criteria;
2. Develop key data for highway projects;
3. Re-evaluation of 2045 highway element;
4. Generate highway projects and alternatives;
5. Evaluate highway projects and alternatives; and,
6. City Council and MPO Board comments on alternatives.

Products:

1. Amendments to the CTP and 2045 MTP as needed
2. Preliminary identification of issues/concerns to address in future MTP updates

Relationship to Other Plans and MPO Activities:

Before the highway element can be developed, several other tasks must be successfully completed including: TRM update; travel demand forecasts; capacity deficiency analysis. In addition, and the Congestion Management Process will be important to this task.

Proposed Budget and Level of Effort

Transportation Planner II, 90 hours

II-B-10: Transit Element of the MTP

The City of Durham will continue maintenance of transit elements of the Comprehensive Transportation Plan and the 2045 MTP. Transit evaluation will include fixed-route bus service, fixed-guideway transit, highway capacity transit and demand responsive transit. Using travel behavior, ridership forecasts and other analysis, evaluation of transit element will look at unmet needs, new services areas and potential markets. Performance measures will be established for evaluating transit alternatives. An extensive roster of transit routes, projects and services will be identified based on the current routes, 2013 base year, transit feasibility studies, transit 5-year and master plans, travel demand forecast and capacity deficiency analysis. Different combinations of these services will produce a variety of transit alternatives that will be analyzed to find the alternative that best meets the CTP/MTP Goals and Objectives and targets, and

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meets the fiscal constraint requirement. Each alternative will characterize a one or more emphasis area such as new roadways, transit intensive, etc. The transit element of the Comprehensive Transportation Plan (CTP) will be developed in parallel with the MTP, but will likely have a different set of constraints (e.g., no fiscal constraint).

Objectives:

1. To identify a list of transit routes, projects and services based on completed transit studies, travel demand and deficiencies;
2. To develop a series of transit alternatives (i.e., set of transit routes, projects and services with a distinct objective); and,
3. To develop key data for each transit project such as route, ridership capacity (e.g., load capacity and headway), service hours, cost, implementation year, etc.

Previous Work:

1. 2045 MTP;
2. Feasibility studies (regional transit plans , STAC, US 15-501 Transit Corridor and I-40/NC 54 Transit Corridor, Chapel Hill Transit Master Plan, etc.);
3. Transit 5-year TDP and master plans;
4. Travel demand forecast; and,
5. Capacity deficiency analysis.

Proposed Activities:

1. Establish evaluation criteria;
2. Develop key data for transit services;
3. Generate transit projects and alternatives;
4. Evaluate transit projects and alternatives; and,
5. City Council and MPO Board comments on alternatives and draft MTP and CTP.

Products/Deliverables:

1. Amendments to the CTP and 2045 MTP as needed
2. Preliminary identification of issues/concerns to address in future MTP updates
3. Update 2050 transit tables and attributes.
4. Update of geodatabase of transit preferred option and final 2050 projects.

Relationship to Other Plans and MPO Activities:

Before the transit element can be developed, several other tasks must be successfully completed including: TRM update and surveys; travel demand forecasts; capacity deficiency analysis. In addition, transit plans and feasibility studies, the Congestion Management Process and CTP will be important input to this task.

Proposed Budget and Level of Effort

Transportation Planner II, 180 hours

Task II-B-11: Bicycle and Pedestrian Element of the MTP

The City of Durham will continue maintenance of the bicycle and pedestrian elements of the Comprehensive Transportation Plan and the 2045 MTP. The MPO will continue work on the implementation of the Durham Bike+Walk Implementation Plan.

Objectives:

1. Update the MTP/CTP bicycle and pedestrian elements, project descriptions and cost information;

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2. Collect public input on bicycle and pedestrian facilities and programs to be included in the CTP/2045 MTP;
3. Update the MTP ancillary planning and program information.
4. Coordinate existing local and regional plans and projects with MTP bicycle and pedestrian element;
5. Update MTP bicycle and pedestrian Element maps; and,
6. Work with local communities on Regional Priority Lists, in order to implement MTP Bicycle and Pedestrian elements through the TIP.

Previous Work:

1. Preparation of the bicycle and pedestrian elements of the 2040 MTP.
2. Durham Bike+Walk Implementation Plan

Proposed Activities:

1. Collect planned and proposed bicycle and pedestrian project information from local and regional plans and forums for inclusion in the MTP/CTP;
2. Create and update bicycle and pedestrian facility maps;
3. Create and update bicycle and pedestrian demand analysis;
4. Coordinate planning activities between local and regional agencies for bicycle, and pedestrian, trail/greenway and TDM initiatives.

Products/Deliverables:

1. Amendments to the CTP and 2045 MTP as needed
2. Preliminary identification of issues/concerns to address in future MTP updates

Relationship to Other Plans and MPO Activities:

Planning activities for the CTP/MTP Bicycle and Pedestrian Element will be coordinated with local and regional bicycle, pedestrian, greenway and TDM Plans to capture all proposed projects within the MPO.

Proposed Budget and Level of Effort

Transportation Planner II, 90 hours

Task III-A: Planning Work Program

Administer the FY 2021 Unified Planning Work Program (UPWP) and process amendments as needed. Evaluate transportation planning work needs and emphasis areas and prepare the FY 2022 UPWP. Prepare quarterly progress reports, document expenditures for the various planning work items, and file for reimbursement of expenditures from the PL and STP-DA funds account and other federal funds.

Objective:

1. To prepare and continually maintain a UPWP that describes all transportation and transportation-related planning activities anticipated within the City of Durham and DCHC MPO planning area for the FY 2020-2021 UPWP.
2. To develop, maintain, and complete the UPWP in conformance with applicable federal, state, and regional guidelines.
3. To prepare UPWP amendments as necessary and requested by member agencies, to reflect any change in programming or focus for the current fiscal year.

Previous Work:

1. Previous UPWPs
2. Previous Amendments to the UPWP

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Proposed Activities:

1. Review and amend relevant portions of the DCHC's UPWP in order to meet new planning requirements and/or circumstances pertinent to the MPO emphasis and transportation planning objectives.
2. Develop a new UPWP for the DCHC planning area covering the next program year. The development of a new UPWP will be prepared in cooperation with NCDOT and subject to the development process and public involvement endorsed by the MPO Board.

Expected Work Products:

1. Amendments to the current UPWP as necessary.
2. Development of the FY 2022 UPWP.

Relationship to Other Plans and MPO Activities:

The Planning Work Program documents the work conducted for other plans and MPO activities and enables reimbursement for work performed.

Proposed Budget and Level of Effort

Transportation Planner, 45 hours

III-B-1: Transportation Improvement Plan

Amend TIP/ STIP as needed. Finalize development of the FY 2020-2029 TIP and begin development of the FY 2022-2031 TIP. This includes the refinement of the MPO Priority Needs and the identification of the transportation projects, programs, and services towards which the MPO will direct STPBG, CMAQ, TAP, and other federal/state funds.

Objectives:

As the Lead Planning Agency (LPA) of the DCHC MPO, the City of Durham, Transportation Division is responsible for annually developing, amending, adjusting and maintaining the TIP for the metropolitan area. Under this activity, the LPA will update and amend the current, seven-year program of transportation improvement projects that is consistent with the 2045 Metropolitan Transportation Plan, STIP, the State Implementation Plan (SIP), EPA Air Quality Conformity Regulations and FHWA/FTA Planning Regulations.

Previous Work:

DCHC MPO Transportation Improvement Programs.

Proposed Activities:

1. Develop transportation improvement projects for consideration by the City Council.
2. Develop FY 2020-2029 TIP and FY 2022-2031 TIP
3. Refine project ranking methodology and priority system.
4. Conduct appropriate public participation for the TIP consistent with the MPO Public Involvement Policy.
5. Conduct formal amendments and adjustments as necessary.
6. Produce and distribute TIP documents for local officials.
7. Attend regular meetings with NCDOT to exchange information regarding transportation improvement projects.

Expected Work Product:

1. Work with the MPO in the development of STI.

City of Durham
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2. Assist and provide support to the LPA regarding STI
3. FY 2020-2029 and FY 2022 -2031 Transportation Improvement Program
4. Develop and refine procedures necessary for TIP preparation and amendments as necessary.
5. TIP Amendments and Adjustments as necessary.

Proposed Budget and Level of Effort

Transportation Planner II, 360 hours

III-C-6: Public Involvement

The City of Durham will continue to provide an early, proactive and a meaningful public participation and input throughout the transportation planning process, including providing for open exchange of information and ideas between the public and transportation decision-makers.

Objectives:

To provide the public with complete information, timely notice, full access to key decisions and opportunities for early and continuing involvement in the 3C process. To assess the effectiveness of the current Public Involvement Process as required by the MPO, and to develop and enhance the process of public dissemination of information.

Previous Work:

1. MPO Public Involvement Process.
2. Newsletters, emails, websites
3. Advertisements.

Proposed activities:

1. Administer the MPO Public Participation Process as needed.
2. Apply the Public Involvement Process to transportation programs and tasks:
3. Public meetings, workshops, and outreach programs to increase public participation, information dissemination, and education.

Expected Work Products:

1. Public meetings, website postings, flyers, etc.
2. Support of Citizen Advisory Committee

Relationship to other plans and MPO activities

Public involvement is used throughout the MPO planning process in support of all activities.

Proposed Budget and Level of Effort

Transportation Planner II and Senior Transportation Planner, 90 hours

III-D-2: Environmental Analysis & Pre TIP Planning

The City will continue to participate regularly and consistently in the TIP project planning & development process, including submission of comments, attending public meetings, attending scoping meetings, attending NEPA 404 merger meetings, and participating in field inspections. The City will be involved in TIP project development. The City will continue to support and be involved in NCDOT efforts to link NEPA process in the MPO systems planning process.

Objectives:

1. To ensure that the goals, objectives and needs of the DCHC MPO are integrated in the environmental planning process of transportation projects; and,

City of Durham
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2. To ensure the needs of the citizens in the City portion of the DCHC MPO planning area are considered in the project planning process.

Previous Work:

Regular project scoping, environmental study and public meetings, especially those conducted by the NCDOT and GoTriangle.

Proposed Activities:

1. Regular participation at project scoping, environmental study and public meetings, especially those conducted by the NCDOT and GoTriangle;
2. Review and comment on project scoping and environmental documents;
3. The City participation in NEPA process for TIP projects.

Products/Deliverables:

Written comments on project scoping and environmental studies, activities and documents;

Relationship to Other Plans and MPO Activities:

The activities of this task are directly related to transportation projects in the long-range transportation plan and to projects that are being considered for TIP funding.

Proposed Budget and Level of Effort

Transportation Planner II, 405 hours

III-D-3: Special Studies

The City will participate in MPO special studies including the US 15-501 Corridor Study and the Central Durham Study.

Objectives

1. To develop focused studies for US 15-501 and central Durham.

Previous Work

1. Special studies on various corridors and areas of the MPO.

Proposed Activities

1. Kickoff meeting and participation on steering committees
2. Development of a draft study
3. Final study
4. Website postings and public involvement

Products

1. Study documents

Relationship to Other Plans and MPO Activities

The US 15-501 corridor and central Durham study will include analysis related to the Highway and Bicycle and Pedestrian Elements of the MTP.

Proposed Budget and Level of Effort

Transportation Planner II, 450 hours

City of Durham

TASK DESCRIPTIONS & NARRATIVES

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III-E-1: Management and Operations

The City will assist and support the DCHC MPO efforts in complying with the federal 3-C process. The City of Durham staff will attend both DCHC MPO and regional meetings. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes to these meetings, and attending training.

Objective:

To assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning and programming process at all levels of government in conformance with applicable federal and state requirements and guidelines as described in the 3C Memorandum of Understanding.

Previous Work:

1. Management of the 3C process using previous Unified Work Program and prospectus documents, transportation plans, and Memorandum of Understanding. Specifically, previous tasks include but not limited to preparation of Technical Committee (TC) and the MPO Board meeting agendas, providing technical assistance to the MPO Board, development of the TIP, preparation of the annual UPWP, working with other agencies, such as NC Division of Air Quality, etc.

Proposed Activities:

1. Provide liaisons between DCHC MPO and the City of Durham elected officials and citizens.
2. Provide technical assistance to the MPO.
3. Participate in joint meetings as a means to continually improve the quality and operation of the transportation planning process and decision making within the MPO and in the Triangle Region.
4. Review and comment on federal and state transportation-related plans, programs, regulations and guidelines pertaining to the City of Durham.

Work Product Expected:

1. Technical assistance memoranda, reports, and public involvement meetings and workshops as needed.
2. Updates to the planning documents as required.

Relationship to other plans and MPO activities

Participation in MPO meetings is necessary for the function of the MPO and all plans and activities.

Proposed Budget and Level of Effort

Transportation Planner II, 90 hours

Town of Hillsborough

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA				
		20%	80%	20%	80%	10%	10%	80%	10%	10%	80%				
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan (MTP)														
1	Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of th MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Transit Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-A	Planning Work Program														
	Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-B	Transp. Improvement Plan														
	TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
1	Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Special Studies	\$40,000	\$160,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000	\$0	\$160,000	\$200,000
4	Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-E	Management & Operations														
1	Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals		\$40,000	\$160,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000	\$0	\$160,000	\$200,000

Hillsborough
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

III-D-3. Special Studies

Engineering feasibility study for potential new public road connecting Eno Mountain Road and NC 86 in Hillsborough.

Objectives

1. Collect sufficient field data (survey of right of way and topography) to determine whether the previously identified alternatives are feasible
2. Identify constraints or alternatives
3. Prioritization of projects based on feasibility
4. Develop a locally preferred alternative for future funding requests
5. Ballpark construction cost estimates

Previous Work

In FY20, a process was undertaken to develop a number of alternatives at a conceptual level.

Proposed Activities

Develop RFP to detail the exact project limits for the corridors of study.

Identify a scope of work that provides a reasonable project.

Complete the work consistent with the objectives listed above.

Products

Maps (or data layers) and written documents addressing the project objectives.

Relationship to other plans and MPO activities

This project will inform future TIP and possibly STP-DA funding requests along with the continuing review of development projects in the project corridor.

Proposed budget and level of effort

This work will be predominately completed by a consultant following an RFP selection process with oversight by staff.

Local staff time will be approximately 100 hours with 50% of the hours by the Public Space Manager and 50% by the Planning Director.

Chatham County

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA				
		20%	80%	20%	80%	10%	10%	80%	10%	10%	80%				
II-A	Surveillance of Change														
	1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan (MTP)														
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of th MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Transit Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-A	Planning Work Program														
	Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-B	Transp. Improvement Plan														
	TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-C	Cvl Rgts. Cmp/Otr. Reg. Reqs.														
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$21,872	\$87,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,872	\$0	\$87,488	\$109,360
	4 Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-E	Management & Operations														
	1 Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals		\$21,872	\$87,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,872	\$0	\$87,488	\$109,360

Chatham County
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

III-D-3. Special Studies.

Planning studies such as identifying a small network for bike and pedestrian transportation that will improve safety, mobility, and feasibility.

Objectives

The objectives for this study are to identify bicycle and pedestrian improvements to be made in a small network area of Chatham west of Jordan Lake within the MPO boundary.

Previous Work

Chatham County has adopted a Comprehensive Plan that includes a transportation section that outlines certain areas of improvement in Chatham within the MPO boundary. This plan provides short and long term strategies to improve the transportation in the county.

Proposed Activities

Over the past decade, Chatham's population and interest of bike and pedestrian transportation in the county increased vastly. Given this information, the county will undertake an effort to incorporate a bicycle and pedestrian study that will improve the safety, mobility, and feasibility for bike and pedestrian transportation. The rise of the people utilizing biking and pedestrian facilities in the study area have motivated Chatham County to study the demands and needs for more safe bicycle and pedestrian transportation in the area. The purpose of the study is to identify a small scale network in Chatham County, which will focus on safety improvements to the targeted area, and create a list of sound strategies to enhance active mobility and feasibility in the study area. The consultant will be responsible for providing a pre and post analysis of current conditions, existing plans, programs, and develop a list of recommendations to consider for the future bicycle and pedestrian transportation in the study area.

Products

A special study that will include a report that outlines the proposed sound strategies to utilize moving forward in bicycle and pedestrian transportation planning in the study area to be used by County staff in the future to improve the multimodal mobility network.

Relationship to other plans and MPO activities

The county will be implementing many of the MPO's multimodal initiatives and increasing bicycle and pedestrian awareness and safety along roadways while improving future mobility and feasibility.

Proposed budget and level of effort

The budget of the project is \$109,360.00 dollars of funds. The 80% of federal reimbursable amount would be 87,488.00. This study will be completed by a consultant and will require a 1-2 year time frame.

Durham County

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA				
		20%	80%	20%	80%	10%	10%	80%	10%	10%	80%				
II-A	Surveillance of Change														
	1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan (MTP)														
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of th MTP	\$3,209	\$12,836	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,209	\$0	\$12,836	\$16,045
	10 Transit Element of the MTP	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0	\$20,000	\$25,000
	11 Bicycle & Ped. Element of the MTP	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0	\$4,000	\$5,000
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-A	Planning Work Program														
	Planning Work Program	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500
III-B	Transp. Improvement Plan														
	TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-C	Cvl Rgts. Cmp/Otr. Reg. Reqs.														
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Regional or Statewide Planning	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0	\$4,000	\$5,000
III-E	Management & Operations														
	1 Management & Operations	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500
Totals		\$11,209	\$44,836	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,209	\$0	\$44,836	\$56,045

Durham County
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

II-B-9. Highway Element of the MTP

County staff will participate and assist the MPO in preparing the highway elements of the 2050 MTP. The County will be preparing roadway cross sections for the Comprehensive Plan.

Objectives

Update the MTP highway elements and to participate in the development of other highway-related studies.

Previous Work

Preparation of the highway element of the 2045 MTP and the CTP; Participation in the development of the Highway 98 Corridor Study

Proposed Activities

1. Provide data to the LPA on highway facilities as needed
2. Participate in corridor studies
3. Development of 2050 MTP
4. Develop new street cross sections for the Comprehensive Plan

Products

1. Preferred highway element option
2. Key data for highway projects

Relationship to other plans and MPO activities

MTP, CTP, TIP

Proposed budget and level of effort

Majority of the work to be performed by a Planner (400 hours)

II-B-10. Transit Element of the MTP.

Support the evaluation of the transit element of the 2050 MTP, including County Transit Plans, commuter rail and BRT activities.

Objectives

Continue development and implementation of the Durham County Transit Plan

Previous Work

The County has been developing a new Transit Plan and participating in the Staff Working Group.

Proposed Activities

1. Continue development of the new County Transit Plan
2. Participation in the Staff Working Group
3. Begin implementation of the County Transit Plan

Products

1. Public engagement activities for the County Transit Plan
2. Completed Durham County Transit Plan.
3. Evaluation of transit preferred options.
4. Update 2050 transit tables and attributes.

Durham County
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Relationship to other plans and MPO activities

MTP, CTP, TIP

Proposed budget and level of effort

Majority of work to be completed by a Planning Manager and Planner (550 hours)

II-B-11. Bicycle & Pedestrian Element of the MTP.

County staff will participate and assist the MPO in evaluating the bicycle and pedestrian elements of the 2050 MTP.

Objectives

Update the MTP bicycle and pedestrian elements.

Previous Work

Preparation of the bicycle and pedestrian element of the 2045 MTP and the CTP.

Proposed Activities

1. Provide data to the LPA on bike and pedestrian facilities as needs
2. Develop bike and pedestrian elements of the 2050 MTP

Products

1. Data on bike and pedestrian facilities

Relationship to other plans and MPO activities

MTP, CTP

Proposed budget and level of effort

Majority of work to be completed by a Planner (130 hours)

III-A-1. Planning Work Program.

Development of the FY22 UPWP, process amendment of the FY21 UPWP as necessary, prepare quarterly invoice and reimbursement requests.

Objectives

Process amendments to the UPWP if necessary and provide input on UPWP oversight.

Previous Work

County staff have been involved in previous UPWPs, providing oversight and guidance to UPWP management.

Proposed activities

1. Complete amendment spreadsheets as needed
2. Prepare Durham County's 2022 UPWP documents and budget

Products

1. Amendment spreadsheets as needed
2. Durham County's previous fiscal year UPWP activities narrative and budget

Durham County
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Relationship to other plans and MPO activities

Required by federal law, the UPWP is the mechanism for regional transportation planning and coordination within the MPO.

Proposed budget and level of effort

Worked to be performed by a Planning Manager (20 Hours)

III-D-4. Regional and Statewide Planning.

County staff will provide input to the regional transit agency and NCDOT regarding transportation issues. Staff will also serve on various regional transportation-related committees and boards.

Objectives

Provide input to the regional transit agency and serve on regional transportation-related boards and committees.

Previous work

County staff has served on various regional committees such the Triangle J Council of Governments CORE committee, which looks at regional transportation issues. County staff also provides input and data to the regional transit agency as requested.

Proposed activities

1. Work with regional planners on transportation planning that crosses jurisdictional borders
2. Provide input and data to the regional transit agency as requested

Products

1. Provide staff to regional committees
2. Provide coordination between local governments as needed

Relationship to other plans and MPO activities

MTP

Proposed budget and level of effort

Work to be performed by a Planner and a Planning Manager. (100 Hours)

III-E-1. Management and Operations.

Administrative tasks necessary will be completed.

Objectives

- Participate and contribute to MPO-related meetings.
- Adhere to the goals and tasks laid out in the Unified Planning Work Program.
- Ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues.
- Ensure the local transportation advisory board has the information it needs to develop sound recommendations on local and regional transportation issues.
- Improve staff efficiency and knowledge through training sessions and educational materials.

Previous work

Similar to proposed activities described below

Durham County
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

Proposed activities

1. Attend and participate in MPO Board and TC meetings
2. Staff development through professional training courses, seminars, and conferences
3. Prepare materials and present to the local elected officials related to local and regional transportation planning topics
4. Attend and participate in MPO subcommittee meetings

Products

1. Staff reports and communication with other County officials as well as elected officials and members of advisory boards

Relationship to other plans and MPO activities

See objectives and proposed activities.

Proposed budget and level of effort

Work to be performed by a Planner and a Planning Supervisor. (100 Hours)

Triangle J COG

		Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
			Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II	A	Surveillance of Change														
		1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		4 Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$0	\$0												
II	B	Long Range Transp. Plan (MTP)	\$0	\$0												
		1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		9 Highway Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		10 Transit Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		15 Freight Movement/Mobility Plannin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		18 Air Qual. Planning/Conformity Anal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$0	\$0												
II	C	Short Range Transit Planning	\$0	\$0												
		1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$0	\$0												
III-A		Planning Work Program	\$0	\$0												
		1 Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$0	\$0												
III-B		Transp. Improvement Plan	\$0	\$0												
		1 TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$0	\$0												
III-C		Cvl Rgts. Cmp./Otr .Reg. Reqs.	\$0	\$0												
		1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$0	\$0												
III-D		Incidental Plng./Project Dev.	\$0	\$0												
		1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		3 Special Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		4 Regional or Statewide Planning	\$16,250	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,250	\$0	\$65,000	\$81,250
			\$0	\$0												
III-E		Management & Operations	\$0	\$0												
		1 Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals			\$16,250	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,250	\$0	\$65,000	\$81,250

Triangle J Council of Governments
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

III-D-4. Regional or Statewide Planning.

Facilitate and/or manage joint activities and undertake analysis work in land use, transportation and air quality planning that involve multiple MPO, RPO, local government, transit agency, state and federal agency and anchor institution partners.

Objectives

To ensure that activities that have a scope or scale that transcend any single MPO are done in coordinated, timely, effective and cost-efficient ways.

Previous work

Facilitation and preparation of Joint 2045 Metropolitan Transportation Plan; MTP and TIP air quality conformity coordination and determination report preparation, TRM executive committee support, facilitate joint MPO technical team meetings, Joint MPO Executive Committee coordination, assist with preparation and conduct of Joint MPO Policy Boards meetings, GoTriangle and county transit plan participation, MPO area plan and project participation. Assist with 2016 TRM estimation year data. Increased validation site data for CommunityViz using intern. Development of 3rd version of CommunityViz growth allocation model. Participation on TCRP transit prioritization panel.

Proposed activities

Major activities will include inputs and scenario creation with CommunityViz 3.0 for use with the 2050 MTP, 2045 MTP follow-up and amendments, including AQ conformity work; TRM executive committee support; facilitation of joint MPO technical, executive committee and policy board meetings and deliverables. Other activity would include: 1) continued transition of some socioeconomic data and method responsibilities from ITRE TRM team to TJCOG CommunityViz team; and 2) helping MPOs track land use, socioeconomic, travel market and housing related performance metrics for the Metropolitan Transportation Plan, county transit plans, MPO small area plans, and major transit capital projects; depending on the scale and scope of expanded activities, a budget amendment may be needed. TJCOG will continue to participate in local and regional projects and conversations related to transportation investments (e.g. RTA, NCDOT) and in selected projects of statewide or national impact.

Products

- CommunityViz 3.0 data and scenario deliverables.
- 2050 work tasks
- 2045 MTP amendments and conformity determination reports
- joint MPO technical, executive committee and policy boards meeting support
- Triangle Regional Model Executive Committee tasks
- Transportation-land use-affordable housing and travel market data and reports, as appropriate
- Systematic performance metric tracking from 2045 MTP and county transit plans for land use, affordable housing and related socioeconomic characteristics (e.g. in transit station areas or along transit investment corridors or alignments)
- improved validation site database, especially for urban and mixed use place types near transit, with more sites and closer integration with InfoUSA or other employment site data.
- Databases, GIS files and summary reports related to expanded data analysis and warehouse roles.

Relationship to other plans and MPO activities

This work is most closely tied to the joint MPO Metropolitan Transportation Plan and data and methods related to both version 6 of the Triangle Regional Model and its inputs, including the

Triangle J Council of Governments
TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP

CommunityViz growth allocation model. Work enables the two MPOs to ensure consistent and seamless coordination with each other and other regional transportation partners and local community planning efforts.

Proposed budget and level of effort (DCHC MPO portion)

Budget largely supports staff work by Planning Director, Principal Planner, Senior Planner, Planner II, and GIS Analyst, with some direct costs associated with travel and meeting expenses, and allocated indirect. Depending on expanded data responsibilities, a budget amendment may be needed to support the expanded work.

Funding Commitments from other Entities:

20% local match to be provided by TJCOG and member communities; other funding participation in joint effort from CAMPO and GoTriangle as in previous years.

Town of Chapel Hill

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II-A	Surveillance of Change														
	1 Traffic Volume Counts	\$841	\$3,362	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$841	\$0	\$3,362	\$4,203
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$870	\$870	\$6,960	\$0	\$0	\$0	\$870	\$870	\$6,960	\$8,700
	6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$2,055	\$8,221	\$0	\$0	\$3,122	\$3,122	\$24,976	\$0	\$0	\$0	\$5,177	\$3,122	\$33,197	\$41,496
	11 Central Area Parking Inventory	\$420	\$1,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$420	\$0	\$1,682	\$2,102
	12 Bike & Ped. Facilities Inventory	\$1,308	\$5,232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,308	\$0	\$5,232	\$6,540
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$856	\$856	\$6,848	\$0	\$0	\$0	\$856	\$856	\$6,848	\$8,560
II-B	Long Range Transp. Plan (MTP)														
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$288	\$288	\$2,304	\$0	\$0	\$0	\$288	\$288	\$2,304	\$2,880
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of the MTP	\$1,775	\$7,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,775	\$0	\$7,100	\$8,875
	10 Transit Element of the MTP	\$0	\$0	\$0	\$0	\$653	\$653	\$5,224	\$0	\$0	\$0	\$653	\$653	\$5,224	\$6,530
	11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	15 Freight Movement/Mobility Plannin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$1,214	\$4,858	\$0	\$0	\$820	\$820	\$6,560	\$0	\$0	\$0	\$2,034	\$820	\$11,418	\$14,272
	17 Congestion Management Strategies	\$1,682	\$6,726	\$0	\$0	\$952	\$952	\$7,616	\$0	\$0	\$0	\$2,634	\$952	\$14,342	\$17,928
	18 Air Qual. Planning/Conformity Ana	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$488	\$488	\$3,904	\$0	\$0	\$0	\$488	\$488	\$3,904	\$4,880
		\$0	\$0			\$0	\$0	\$0							
III-A	Planning Work Program														
	Planning Work Program	\$654	\$2,616	\$0	\$0	\$488	\$488	\$3,904	\$0	\$0	\$0	\$1,142	\$488	\$6,520	\$8,150
III-B	Transp. Improvement Plan														
	TIP	\$4,204	\$16,816	\$0	\$0	\$2,839	\$2,839	\$22,712	\$0	\$0	\$0	\$7,043	\$2,839	\$39,528	\$49,410
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$240	\$240	\$1,920	\$0	\$0	\$0	\$240	\$240	\$1,920	\$2,400
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$1,868	\$7,474	\$0	\$0	\$606	\$606	\$4,848	\$0	\$0	\$0	\$2,474	\$606	\$12,322	\$15,402
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$2,803	\$11,210	\$0	\$0	\$1,624	\$1,624	\$12,992	\$0	\$0	\$0	\$4,427	\$1,624	\$24,202	\$30,253
	4 Regional or Statewide Planning	\$2,335	\$9,342	\$0	\$0	\$1,680	\$1,680	\$13,440	\$0	\$0	\$0	\$4,015	\$1,680	\$22,782	\$28,477
III-E	Management & Operations														
	1 Management & Operations	\$1,401	\$5,605	\$0	\$0	\$1,624	\$1,624	\$12,992	\$0	\$0	\$0	\$3,025	\$1,624	\$18,597	\$23,246
	Totals	\$22,561	\$90,244	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$39,711	\$17,150	\$227,444	\$284,304

Anticipated DBE Contracting Opportunities for 2020-2021

Name of MPO/Subrecipient: DCHC MPO / Town of Chapel Hill

X Check here if no anticipated DBE opportunities

Person Completing Form: <u>Bergen Watterson</u>			Telephone Number: _____		
Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out
No Contracting Opportunities					

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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Note: This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note "No contracting opportunities" on the table if you do not anticipate having any contracting opportunities.

[illegible]

TOWN OF CHAPEL HILL
FTA TASK NARRATIVE TABLE
FY21 UPWP

1- MPO	DCM-MPO (Chapel Hill)	DCM-MPO (Chapel Hill)	
2- FTA Code	442200	442200	
3- Task Code	01-D-4	01-E	
4- Title of Planning Task	Regional or Statewide Planning	Management and Operations	TOTALS
5- Task Objective	Support regional and statewide planning projects, including 15-501 Corridor Study, 15-501 Feasibility Study, NC 54 corridor design/NEPA, and NC 54 Pedestrian Safety Study	Support various transit planning activities	
6- Tangible Product Expected	Participate in NCDOT US 15-501/Redham Blvd corridor study, 15-501 Feasibility Study, NC 54 design/NEPA, NC 54 Pedestrian Safety Study, other regional activities as needed	Ongoing transit activities and reporting requirements	
7- Expected Completion Date of Previous Work	6/30/2021	6/30/2021	
8- Relationship To Other Activities	US 15-501 South Corridor Study, NC 54 Corridor Study	Management of transit planning activities	
9- 2019 FTA Funds			
10- Relationship To Other Activities	Supports the implementation of the adopted 2045 MTP, TIP, and the Chapel Hill Short Range Transit Plan.	Supports all other transit planning activities MPO-wide.	
11- Agency Responsible for Task Completion	Town of Chapel Hill	Town of Chapel Hill	
12- FTA - Highway - NCDOT 20%			
13- FTA - Highway - FHWA 80%			
14- Section 104 (f)(1) Local 20%			
15- Section 104 (f)(1) FHWA 80%			
16- Section 5303 Local 10%	\$1,680	\$1,624	\$12,150
17- Section 5303 NCDOT 10%	\$1,680	\$1,624	\$12,150
18- Section 5303 FHWA 80%	\$13,440	\$12,992	\$132,200
19- Section 5307 Transit - Local 10%			\$0
20- Section 5307 Transit - NCDOT 10%			\$0
21- Section 5307 Transit - FTA 80%			\$0
22- Section 5309 Transit - Local 10%			\$0
23- Section 5309 Transit - NCDOT 10%			\$0
24- Section 5309 Transit - FTA 80%			\$0
	\$16,800	\$16,240	\$171,500
	\$16,800	\$16,240	\$0

City of Durham & GoDurham

	Task Description	STBGP		Sec. 104(f)		Section 5303			Section 5307			Task Funding Summary			
		133(b)(3)(7)		PL		Highway/Transit			Transit			Local	NCDOT	Federal	Total
		Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local		FTA				
		20%	80%	20%	80%	10%	10%	80%	20%		80%				
II-A	Surveillance of Change														
1	Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$8,076	\$8,076	\$64,608	\$11,084		\$44,336	\$19,160	\$8,076	\$108,944	\$136,180
6	Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan (MTP)														
1	Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Travel Model Updates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Highway Element of the MTP	\$865	\$3,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$865	\$0	\$3,459	\$4,324
10	Transit Element of the MTP	\$1,730	\$6,918	\$0	\$0	\$326	\$326	\$2,608	\$1,016	\$4,064	\$3,072	\$326	\$13,590	\$16,988	\$16,988
11	Bicycle & Ped. Element of the MTP	\$865	\$3,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$865	\$0	\$3,459	\$4,324
12	Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Financial Planning	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$19,668	\$78,672	\$19,994	\$326	\$81,280	\$101,600	\$101,600
17	Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-C	Short Range Transit Planning														
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$2,610	\$2,610	\$20,880	\$21,124	\$84,496	\$23,734	\$2,610	\$105,376	\$131,720	\$131,720
III-A	Planning Work Program														
	Planning Work Program	\$432	\$1,730	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$432	\$0	\$1,730	\$2,162
III-B	Transp. Improvement Plan														
	TIP	\$3,459	\$13,836	\$0	\$0	\$653	\$653	\$5,224	\$2,036	\$8,144	\$6,148	\$653	\$27,204	\$34,006	\$34,006
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
1	Title VI	\$0	\$0	\$0	\$0	\$326	\$326	\$2,608	\$736	\$2,944	\$1,062	\$326	\$5,552	\$6,940	\$6,940
2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Public Involvement	\$865	\$3,459	\$0	\$0	\$326	\$326	\$2,608	\$1,972	\$7,888	\$3,163	\$326	\$13,955	\$17,444	\$17,444
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.														
1	Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Enviro. Analysis & Pre-TIP Plng.	\$3,892	\$15,566	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,892	\$0	\$15,566	\$19,458
3	Special Studies	\$4,324	\$17,296	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,324	\$0	\$17,296	\$21,620
4	Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-E	Management & Operations														
1	Management & Operations	\$865	\$3,459	\$0	\$0	\$5,207	\$5,207	\$41,656	\$4,328	\$17,312	\$10,400	\$5,207	\$62,427	\$78,034	\$78,034
Totals		\$17,296	\$69,182	\$0	\$0	\$17,850	\$17,850	\$142,800	\$61,964	\$247,856	\$97,110	\$17,850	\$459,838	\$574,798	\$574,798

Anticipated DBE Contracting Opportunities for 2020-2021

Name of MPO/Subrecipient: DCHC MPO/GoDurham X Check here if no anticipated DBE opportunities

Telephone Number: 919 560 4366

Person Completing Form: Neeton Nichols

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out
	No contracting opportunities				

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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Note: This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note “No contracting opportunities” on the table if you do not anticipate having any contracting opportunities.

GoTriangle

	Task Description	Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 10%	NCDOT 10%	FTA 80%	Local 20%	NCDOT 0	FTA 80%	Local	NCDOT	Federal	Total
II A	<u>Surveillance of Change</u>										
	1 Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Traffic Crashes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Dwelling Unit, Pop. & Emp. Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Air Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Mapping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II B	<u>Long Range Transp. Plan (MTP)</u>										
	1 Collection of Base Year Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Collection of Network Data	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Travel Model Updates	\$0	\$0	\$0	\$27,500	\$0	\$110,000	\$27,500	\$0	\$110,000	\$137,500
	4 Travel Surveys	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Forecast of Data to Horizon year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Forecast of Future Travel Patterns	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	8 Capacity Deficiency Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Highway Element of th MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Transit Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of MTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	15 Freight Movement/Mobility Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16 Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	17 Congestion Management Strategies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	18 Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III C	<u>Short Range Transit Planning</u>										
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-A	<u>Planning Work Program</u>										
	Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-B	<u>Transp. Improvement Plan</u>										
	TIP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-C	<u>Cvl Rgts. Cmp./Otr .Reg. Reqs.</u>										
	1 Title VI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	<u>Incidental Plng./Project Dev.</u>										
	1 Transportation Enhancement Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Plng.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$0	\$0	\$0	\$45,000	\$0	\$180,000	\$45,000	\$0	\$180,000	\$225,000
	4 Regional or Statewide Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III E	<u>Management & Operations</u>										
	1 Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals		\$0	\$0	\$0	\$72,500	\$0	\$290,000	\$72,500	\$0	\$290,000	\$362,500

Anticipated DBE Contracting Opportunities for 2020-2021

Name of MPO/Subrecipient: GoTriangle X Check here if no anticipated DBE opportunities

Person Completing Form: Jay Heikes Telephone Number: 919-314-8741

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out
No contracting opportunities					

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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Note: This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note “No contracting opportunities” on the table if you do not anticipate having any contracting opportunities.

GoTriangle

TASK DESCRIPTIONS & NARRATIVES FY 2021 UPWP

III-D-3, Special Studies.

More detailed studies may include evaluations of alternative modes or alignments for cost, feasibility, environmental impact, and design. In a similar manner, special problems may arise in relation to major land use changes when large-scale traffic generators (hospitals, regional malls, etc.) will either be developed or closed. These land use changes could significantly affect the regional distribution and/or amount of traffic generated, which could require changes to the MTP to accommodate the newly forecasted growth. The extent, responsibility, and cost for a corridor or sub-area study, which should be conducted within the work plan of the TCC, would be determined prior to its initiation.

Objectives

Support corridor planning functions including alternatives analysis activities, capital cost estimation, financial planning, operating cost estimations, transit expert studies, and bus service plans.

Previous Work

Consultant reports, model runs, financial analysis, value capture reports

Proposed Activities

We are requesting funding for two items in the special studies grouping. These figures are the amount we are requesting through DCHC MPO, we are making a reciprocal request to CAMPO as any projects produced by these studies would benefit the operations of GoTriangle services in both MPOs.

- Bus on shoulders: \$125,000
- Regional Transit Center Study Phase 2: \$100,000. The idea is that this would be additional planning, conceptual design, and possibly environmental work for the station and potential bus-only infrastructure to and from I-40.

Products

Technical reports on specific topics regarding BOSS corridors and routes. Technical reports and conceptual designs for a relocation of the Regional Transit Center.

Relationship to other plans and MPO activities

Advances planning for bus services in major existing and emerging corridors.

Proposed budget and level of effort

Staff will work with contracted consultants in creating documents related to ongoing long range planning activities.

II-B-3, Travel Model Updates.

A "Modeling Agreement" has been signed between the MPO, GoTriangle, Capital Area MPO (CAMPO), and NCDOT. The agreement details accepted standards and practices, used in the specific travel model, to calibrate and substantiate acceptable tolerances.

A technical summary report of the travel modeling process and results will be provided by the modeling custodian as named in the modeling agreement.

Additionally, GoTriangle contracts with Triangle J Council of Governments to provide continued planning and GIS services in developing the transportation networks and associated land use required for Travel Model Updates.

GoTriangle

**TASK DESCRIPTIONS & NARRATIVES
FY 2021 UPWP**

Objectives

Support for Triangle Regional Model (TRM) Service Bureau.

Previous Work

Ongoing support of TRM service bureau.

Proposed Activities

Ongoing support of TRM service bureau.

Products

Updated Triangle Regional Model.

Relationship to other plans and MPO activities

Supports the regional travel model utilized for the MTP and other transit and highway planning purposes.

Proposed budget and level of effort

Attendance at all TRM Model team meetings, both technical and executive; input into model related tasks as outlined in the Model Bureau work plan.

LPA

	Task Description	STBGP 133(b)(3)(7)		Sec. 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Task Funding Summary			
		Local 20%	FHWA 80%	Local 20%	FHWA 80%	Local 10%	NCDOT 10%	FTA 80%	Local 10%	NCDOT 10%	FTA 80%	Local	NCDOT	Federal	Total
II A	Surveillance of Change														
	1 Traffic Volume Counts	\$19,200	\$76,800	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,200	\$0	\$80,800	\$101,000
	2 Vehicle Miles of Travel	\$800	\$3,200	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200	\$0	\$4,800	\$6,000
	3 Street System Changes	\$1,000	\$4,000	\$1,120	\$4,480	\$0	\$0	\$0	\$0	\$0	\$0	\$2,120	\$0	\$8,480	\$10,600
	4 Traffic Crashes	\$4,776	\$19,104	\$1,080	\$4,320	\$0	\$0	\$0	\$0	\$0	\$0	\$5,856	\$0	\$23,424	\$29,280
	5 Transit System Data	\$3,200	\$12,800	\$1,200	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$4,400	\$0	\$17,600	\$22,000
	6 Dwelling Unit, Pop. & Emp. Change	\$8,100	\$32,400	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$13,100	\$0	\$52,400	\$65,500
	7 Air Travel	\$4,000	\$16,000	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$4,100	\$0	\$16,400	\$20,500
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$14,260	\$57,040	\$1,800	\$7,200	\$0	\$0	\$0	\$0	\$0	\$0	\$16,060	\$0	\$64,240	\$80,300
	10 Mapping	\$15,000	\$60,000	\$4,800	\$19,200	\$0	\$0	\$0	\$0	\$0	\$0	\$19,800	\$0	\$79,200	\$99,000
	11 Central Area Parking Inventory	\$1,800	\$7,200	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,200	\$0	\$8,800	\$11,000
	12 Bike & Ped. Facilities Inventory	\$400	\$1,600	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000
	13 Bike & Ped. Counts	\$11,640	\$46,560	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,640	\$0	\$50,560	\$63,200
II B	Long Range Transp. Plan (MTP)														
	1 Collection of Base Year Data	\$6,540	\$26,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,540	\$0	\$26,160	\$32,700
	2 Collection of Network Data	\$3,880	\$15,520	\$800	\$3,200	\$0	\$0	\$0	\$0	\$0	\$0	\$4,680	\$0	\$18,720	\$23,400
	3 Travel Model Updates	\$72,080	\$288,320	\$4,072	\$16,288	\$0	\$0	\$0	\$0	\$0	\$0	\$76,152	\$0	\$304,608	\$380,760
	4 Travel Surveys	\$9,000	\$36,000	\$3,060	\$12,240	\$0	\$0	\$0	\$0	\$0	\$0	\$12,060	\$0	\$48,240	\$60,300
	5 Forecast of Data to Horizon year	\$526	\$2,104	\$240	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$766	\$0	\$3,064	\$3,830
	6 Community Goals & Objectives	\$360	\$1,440	\$1,330	\$5,320	\$0	\$0	\$0	\$0	\$0	\$0	\$1,690	\$0	\$6,760	\$8,450
	7 Forecast of Future Travel Patterns	\$1,920	\$7,680	\$1,100	\$4,400	\$0	\$0	\$0	\$0	\$0	\$0	\$3,020	\$0	\$12,080	\$15,100
	8 Capacity Deficiency Analysis	\$5,352	\$21,408	\$2,400	\$9,600	\$0	\$0	\$0	\$0	\$0	\$0	\$7,752	\$0	\$31,008	\$38,760
	9 Highway Element of th MTP	\$3,712	\$14,848	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$7,512	\$0	\$30,048	\$37,560
	10 Transit Element of the MTP	\$9,734	\$38,936	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$13,534	\$0	\$54,136	\$67,670
	11 Bicycle & Ped. Element of the MTP	\$7,200	\$28,800	\$2,878	\$11,512	\$0	\$0	\$0	\$0	\$0	\$0	\$10,078	\$0	\$40,312	\$50,390
	12 Airport/Air Travel Element of MTP	\$1,120	\$4,480	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,320	\$0	\$5,280	\$6,600
	13 Collector Street Element of MTP	\$1,794	\$7,176	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$2,394	\$0	\$9,576	\$11,970
	14 Rail, Water or other mode of MTP	\$7,320	\$29,280	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,320	\$0	\$29,280	\$36,600
	15 Freight Movement/Mobility Planning	\$3,540	\$14,160	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$3,740	\$0	\$14,960	\$18,700
	16 Financial Planning	\$1,000	\$4,000	\$480	\$1,920	\$0	\$0	\$0	\$0	\$0	\$0	\$1,480	\$0	\$5,920	\$7,400
	17 Congestion Management Strategies	\$17,336	\$69,344	\$1,139	\$4,555	\$0	\$0	\$0	\$0	\$0	\$0	\$18,475	\$0	\$73,899	\$92,374
	18 Air Qual. Planning/Conformity Anal.	\$1,960	\$7,840	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$3,560	\$0	\$14,240	\$17,800
II C	Short Range Transit Planning														
	1 Short Range Transit Planning	\$0	\$0	\$0	\$0	\$10,305	\$10,305	\$82,440	\$0	\$0	\$0	\$10,305	\$10,305	\$82,440	\$103,050
III-A	Planning Work Program														
	Planning Work Program	\$5,958	\$23,832	\$4,006	\$16,024	\$0	\$0	\$0	\$0	\$0	\$0	\$9,964	\$0	\$39,856	\$49,820
III-B	Transp. Improvement Plan														
	TIP	\$9,700	\$38,800	\$5,661	\$22,645	\$0	\$0	\$0	\$0	\$0	\$0	\$15,361	\$0	\$61,445	\$76,806
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
	1 Title VI	\$2,654	\$10,616	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,654	\$0	\$14,616	\$18,270
	2 Environmental Justice	\$5,800	\$23,200	\$1,640	\$6,560	\$0	\$0	\$0	\$0	\$0	\$0	\$7,440	\$0	\$29,760	\$37,200
	3 Minority Business Enterprise	\$2,380	\$9,520	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,780	\$0	\$11,120	\$13,900
	4 Planning for the Elderly & Disabled	\$1,746	\$6,984	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$2,146	\$0	\$8,584	\$10,730
	5 Safety/Drug Control Planning	\$5,340	\$21,360	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$6,940	\$0	\$27,760	\$34,700
	6 Public Involvement	\$27,402	\$109,608	\$3,769	\$15,077	\$0	\$0	\$0	\$0	\$0	\$0	\$31,171	\$0	\$124,685	\$155,856
	7 Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Png./Project Dev.														
	1 Transportation Enhancement Png.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Png.	\$3,470	\$13,880	\$2,600	\$10,400	\$0	\$0	\$0	\$0	\$0	\$0	\$6,070	\$0	\$24,280	\$30,350
	3 Special Studies	\$2,800	\$11,200	\$4,600	\$18,400	\$0	\$0	\$0	\$0	\$0	\$0	\$7,400	\$0	\$29,600	\$37,000
	4 Regional or Statewide Planning	\$4,400	\$17,600	\$3,600	\$14,400	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000	\$0	\$32,000	\$40,000
III-E	Management & Operations														
	1 Management & Operations	\$39,800	\$159,200	\$12,400	\$49,600	\$0	\$0	\$0	\$0	\$0	\$0	\$52,200	\$0	\$208,800	\$261,000
	Totals	\$350,000	\$1,400,000	\$88,275	\$353,101	\$10,305	\$10,305	\$82,440	\$0	\$0	\$0	\$448,580	\$10,305	\$1,835,541	\$2,294,426

Anticipated DBE Contracting Opportunities for 2020-2021

Name of MPO/Subrecipient: DCHC MPO Lead Planning Agency/City of Durham

X Check here if no anticipated DBE opportunities

Person Completing Form: <u>Margaret Scully</u>			Telephone Number: <u>919 560-4366</u>		
Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out
No Contracting Opportunities					

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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Note: This form must be submitted to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note "No contracting opportunities" on the table if you do not anticipate having any contracting opportunities.

Lead Planning Agency
FTA TASK NARRATIVE TABLE
FY2021 UPWP

1- MPO	DOHC-MPO (LPA)	DOHC-MPO (LPA)	DOHC-MPO (LPA)	DOHC-MPO (LPA)	DOHC-MPO (LPA)
2- FTA Code	442200				
3- Task Code	11-C-1				
4- Title of Planning Task	Short Range Transit Planning				TOTALS
5- Task Objective	Support development and implementation of regional County Transit plans, BRT/commuter rail initiatives, Implementation of Coordinated Human Services Public Transit Transportation Plan, and coordination with FTA grant projects.				
6- Tangible Product Expected	County transit plans, update or amendment of coordinated plan as needed, BRT and CRT plans, studies and agreements				
7- Expected Completion Date of Product(s)	6/30/2021				
8- Previous Work	County transit plans, coordinated plan, DO- LRT, BRT and CRT planning				
9- Prior FTA Funds					
10- Relationship To Other Activities	Supports development and implementation of MTP, county transit plans, coordinated plan, and other MPO-related activities including coordination with FTA grants				
11- Agency Responsible for Task Completion	Lead Planning Agency				
12- HPR - Highway - NCDOT 20%					
13- HPR - Highway - FHWA 80%					
14- Section 104 (f) Local 20%					\$0
15- Section 104 (f) FHWA 80%					\$0
16- Section 5303 Local 10%					\$10,303
17- Section 5303 NCDOT 10%					\$10,303
18- Section 5303 FTA 80%					\$82,400
19- Section 5307 Transit - Local 10%					\$0
20- Section 5307 Transit - NCDOT 10%					\$0
21- Section 5307 Transit - FTA 80%					\$0
22- Section 5309 Transit - Local 10%					\$0
23- Section 5309 Transit - NCDOT 10%					\$0
24- Section 5309 Transit - FTA 80%					\$0
		\$103,050	\$0	\$0	\$103,050

*Connecting all points of the Triangle*

January 22, 2020

To: Durham – SWG, DCHC MPO Board, GoTriangle Board
From: GoTriangle for GoDurham
Subject: Durham County FY20 Workplan Amendments – Material Change Memo

1. Background

This memo covers proposed FY20 Workplan amendments with a brief introduction and financial impact of each.

1.1 GoTriangle for GoDurham

i. Amendment for GoDurham better bus stop budget

20GOT_CD2 - In the FY20 Durham Transit Tax Annual Work Plan, \$500,000 is programmed for design of 50 bus stop improvements for GoDurham. Progress on this work was at a pace that construction can be scheduled to begin on 10 stops in FY20 rather than FY21 as previously planned. In addition, GoTriangle recommends proceeding with procurement of amenities for all 50 stops up front, to access better prices and ensure amenities are in stock for installation as construction on each stop is completed. Therefore, GoTriangle, on behalf of GoDurham, is requesting an additional \$1,029,000 of funding from the Durham Transit Tax Fund to be pulled forward from the future funding pipeline into FY20.

The amended request is considered a material change to the plan per the existing Interlocal Agreement (ILA) because the request is for more than \$500,000 towards bus service. Therefore, the request must be approved by the governing boards of three parties to the ILA: GoTriangle, DCHC MPO, and the Durham Board of County Commissioners.

Recommendation

DCHC MPO Board Action: Recommend that the Board approve amending the FY20 Durham Transit Tax Annual Work Plan to add \$1,029,000 for construction of bus stop improvements for GoDurham

Durham County FY20 Workplan budget impact = \$1,029,000

CURRENT

Technical Committee 1/22/2020 Item 8

Project ID#	Durham Transit Plan- Project Request Form				FY START	7/1/2019	
20GoT_CD2	Capital				FY 2020		
	Transit Service						
Project Business Case							
Project Name	Requesting Agency	Project Contact	TTD Estimated Operating Cost				
Bus Stop Improvements	GoTriangle for GoDurham	Kevin Lewis	Current Year \$ -				
Estimated Start Date	Estimated Completion	Notes	TTD Estimated Capital Cost				
July 1, 2018	ongoing		Current Year \$ 500,000				
Project Description							
The GoDurham better bus stop program a total of \$6.7M programmed from FY18 to FY22. The first phase of bus stop improvements for the first 31 bus stops that was authorized in FY18 (Project ID 18DCI_CD4), for \$783, 570 with a City of Durham match of \$736,328. Design is wrapping up on an initial list of roughly 30 stops, development of the next round of potential bus stop locations is underway. The phase 2 \$500,000 Design request for the next 50 bus stops.							
Project Profile							
Project Area	Direct or Indirect Beneficiaries	Key benefits (Transit Plan)	Transit Plan Section	Map of Area			
City of Durham	Durham Residents and Visitors	Improved Bus Stop Amenities	4.3.3				
Project Monitoring Details							
Capital Projects							
Quantitative Outcomes	**Please list up to 3 Quantitative metrics and 1 Qualitative						
1. Increased Ridership	2. Improved Mobility in Area	3. Increased Pedestrian Activity	Qualitative	Improved Customer Satisfaction			
List any other relevant information not addressed.							
Project Costs may increase due to increasing construction costs. Project can complete design/engineering with requested funds							
Finance Estimates							
Revenue							
Tax Revenue	FY 19 and Prior	FY20	Funding to Date	FY21	FY22	FY23	Total
Durham County Tax Revenue	\$ 783,569.50	\$ 500,000.00	\$ 1,283,570	-	-	-	1,283,570
Other Revenue							
Federal			\$ -				-
State							-
Other - City of Durham funds	\$ 736,328		\$ -				-
Subtotal Other	\$ 736,328	\$ -	\$ 736,328	-	-	-	736,328
TOTAL REVENUE	\$ 1,519,898	\$ 500,000	\$ 2,019,898	-	-	-	2,019,898
Multi-Year Capital - Revenue Funding through FY 2021							
Revenue	Durham County Tax Revenue through FY 2020 (Funding to Date)				\$ 6,722,031		
Expenses	FY18 Reimbursement:				\$ -		
Expenses	FY19 Budgeted				\$ 783,570		
Net	Durham County Tax Revenue Available				\$ 5,938,461		
Project Request				\$ 500,000			
Balance Available for Future Request				\$ 5,438,461			
Cost Break Down of Project Request							
CAPITAL COSTS	FY 19 and Prior	FY20	FY21	FY22	FY23	FY24	Total
Feasibility or Other Studies							\$ -
Land - Right of Way							\$ -
Design & Engineering	\$ 580,000	\$ 500,000	\$ -				\$ 1,080,000
Construction - Implementation	\$ 366,000						\$ 366,000
Equipment	\$ 522,500						\$ 522,500
Other (Describe)	\$ 51,398						\$ 51,398
TOTAL CAPITAL COSTS	\$ 1,519,898	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,019,898
Please state any assumption(s) used to calculate the capital and operating dollars and revenues shown above.							
\$500,000 is requested in FY2020 to design 50 bus stops as part of the Phase 2 of the GoDurham better bus stop program. The \$783,570 budgeted in FY2019 is expected to carryover to FY2020 and be used for construction of the first 31 bus stops sponsored under the same GoDurham better bus stop program.							

PROPOSED

Technical Committee 1/22/2020 Item 8

Project ID#	Durham Transit Plan- Project Request Form				FY START	7/1/2019	
20GOT_CD2	Capital				FY 2020		
	Transit Service						
Project Business Case							
Project Name	Requesting Agency	Project Contact	TTD Estimated Operating Cost				
Bus Stop Improvements	GoTriangle for GoDurham	Jay Heikes	Current Year \$ -				
Estimated Start Date	Estimated Completion	Notes	TTD Estimated Capital Cost				
July 1, 2018	ongoing		Current Year \$ 1,528,800				
Project Description							
<p>The GoDurham better bus stop program a total of \$6.7M programmed from FY18 to FY22. Funding for an initial group of bus stop improvements was authorized in FY18 (Project ID 18DCI_CD4), for \$783,570 with a City of Durham match of \$736,328; construction of that initial group of stops is underway and is scheduled to be complete by the end of FY20.</p> <p>In the FY20 Durham Transit Tax Annual Work Plan, \$500,000 was programmed for design of 50 additional bus stop improvements for GoDurham, with the expectation that construction funding would be made available in future years. Progress on this work has proceeded at a pace that construction can be scheduled begin on 10 of the stops in FY20 rather than FY21 as previously planned. In addition, GoTriangle recommends proceeding with procurement of amenities for all 50 stops up front, to access better prices and ensure amenities are in stock for installation as construction on each stop is completed. Therefore, GoTriangle, on behalf of GoDurham, is requesting an additional \$1,029,000 of funding from the Durham Transit Tax Fund to be pulled forward from the future funding pipeline into FY20.</p>							
Project Profile							
Project Area	Direct or Indirect Beneficiaries	Key benefits (Transit Plan)	Transit Plan Section	Map of Area			
City of Durham	Durham Residents and Visitors	Improved Bus Stop Amenities	4.3.3				
Project Monitoring Details							
Capital Projects							
Quantitative Outcomes	**Please list up to 3 Quantitative metrics and 1 Qualitative						
1. Increased Ridership	2. Improved Mobility in Area	3. Increased Pedestrian Activity	Qualitative	Improved Customer Satisfaction			
List any other relevant information not addressed.							
Project Costs may increase due to increasing construction costs. Project can complete design/engineering with requested funds							
Finance Estimates							
Revenue							
Tax Revenue	FY 19 and Prior	FY20	Funding to Date	FY21	FY22	FY23	Total
Durham County Tax Revenue	\$ 783,569.50	\$ 1,528,800.00	\$ 2,312,370	-	-	-	2,312,370
Other Revenue							
Federal				\$ -			-
State							-
Other - City of Durham funds	\$ 736,328			\$ -			-
Subtotal Other	\$ 736,328	\$ -	\$ 736,328	-	-	-	736,328
TOTAL REVENUE	\$ 1,519,898	\$ 1,528,800	\$ 3,048,698	-	-	-	3,048,698
Multi-Year Capital - Revenue Funding through FY 2021							
Revenue	Durham County Tax Revenue through FY 2020 (Funding to Date)				\$ 6,722,031		
Expenses	FY18 Reimbursement:				\$ -		
Expenses	FY19 Budgeted				\$ 783,570		
Net	Durham County Tax Revenue Available				\$ 5,938,461		
Project Request				\$ 500,000			
Balance Available for Future Request				\$ 5,438,461			
Cost Break Down of Project Request							
CAPITAL COSTS	FY 19 and Prior	FY20	FY21	FY22	FY23	FY24	Total
Feasibility or Other Studies							\$ -
Land - Right of Way							\$ -
Design & Engineering	\$ 580,000	\$ 500,000	\$ -				\$ 1,080,000
Construction - Implementation	\$ 366,000	\$ 318,500					\$ 684,500
Equipment	\$ 522,500	\$ 710,300					\$ 1,232,800
Other (Describe)	\$ 51,398						\$ 51,398
TOTAL CAPITAL COSTS	\$ 1,519,898	\$ 1,528,800	\$ -	\$ -	\$ -	\$ -	\$ 3,048,698
Please state any assumption(s) used to calculate the capital and operating dollars and revenues shown above.							
<p>\$500,000 is requested in FY2020 to design 50 bus stops as part of the Phase 2 of the GoDurham better bus stop program. The \$783,570 budgeted in FY2019 is expected to carryover to FY2020 and be used for construction of the first group bus stops sponsored under the same GoDurham better bus stop program (originally authorized in FY18). Details of amended budget request of \$1,029,00 for the Durham FY20 workplan are:</p> <ul style="list-style-type: none"> • Total Equipment (shelters, benches and Simme seats) Cost for the first 10 (of the next 50) - \$118,700 • Total Construction Cost for the first 10 (of the next 50) - \$318,500 • Total Equipment (shelters, benches and Simme seats) Cost for an advanced order (for the remaining 40) - \$399,400 • Spares / Additional Equipment (shelters) Cost (3 / 10) - \$192,400 (13 shelters @ \$14,800/shelter) <p>Grand Total Amendment Request (\$118,500 + \$318,500 + \$399,400 + \$192,400) = \$1,029,000</p>							

P6 Preliminary Highway Scores - January 2020

											Statewide Mobility	Regional Impact	Division Needs
#	SPOT ID	TIP	Project Category	Route / Facility Name	From / Cross Street	To / Cross Street	Description	Cost to NCDOT	County(s)	Notes	TOTAL	TOTAL	TOTAL
Holding Tank Projects													
2	H170126		Regional Impact	US 501 (Roxboro Road)	US 501 Bypass (Duke Street)	Omega Road	Construct median, access management facilities, safety improvements, bicycle and pedestrian facilities, and transit stop improvements.	\$ 23,900,000	Durham			28.15	20.77
6	H111036		Regional Impact	NC 86	US 70 Bypass	North of NC 57	Widen to four lanes with a median and improve intersections at US 70 Bypass and NC 57.	\$ 12,400,000	Orange	Check cross-section and intersection improvements		27.79	20.97
3	H170375		Regional Impact	US 501 Business (Roxboro Road)	NC 55 (Avondale Drive)	SR 1004 (Old Oxford Road)	Construct median along section with potential turn lanes at Lavender Avenue, Bon Air Avenue, and Murray Avenue. Fill in sidewalk gaps and provide streetscape improvements.	\$ 34,905,000	Durham			25.52	19.34
9	H170038		Division Needs	SR 1116 (Garrett Road)	NC 751 (Hope Valley Road)	SR 2220 (Old Chapel Hill Road)	Upgrade roadway corridor to increase capacity and construct bicycle and pedestrian facilities and transit stop improvements.	\$ 34,200,000	Durham	Check cross-section			18.08
11	H150278		Regional Impact	NC 751 (Hope Valley Road)	South Roxboro Road	Woodcroft Parkway	Widen to four lanes with bike lanes and sidewalks. Improve the NC 751 & South Roxboro Road intersection.	\$ 7,638,000	Durham			21.72	17.76
12	H111011		Regional Impact	NC 751 (Hope Valley Road)	NC 54	Southpoint Auto Park Blvd	Widen to four lanes with a median with bicycle, pedestrian and transit facilities as appropriate.	\$ 16,500,000	Durham			21.56	17.58
14	H170037		Division Needs	SR 1978 (Hopson Road)	NC 54	Distribution Drive	Widen to a four lane divided roadway with bicycle and pedestrian facilities.	\$ 9,109,000	Durham				14.36
8	H170127		Division Needs	New Route - Northern Durham Parkway	I-85	SR 1004 (Old Oxford Road)	Construct multi-lane roadway on new location.	\$ 84,065,000	Durham	Check route			11.61
13	H171433		Division Needs	New Route - Northern Durham Parkway	US 70	SR 1811 (Sherron Road)	Construct roadway on new location.	\$ 59,510,000	Durham				11.45
7	H170122		Division Needs	SR 1321 (Hillandale Road)	SR 1443 (Horton Road)		Construct roundabout	\$ 2,600,000	Durham				10.91
4	H170312		Regional Impact	US 501 Business (Roxboro Road)	SR 1443 (Horton Road)		Install turn lanes on US 501 Business (Roxboro Road) at Horton Road.	\$ 3,300,000	Durham			13.73	9.16
16	H140638		Division Needs	Elliott Road	US 15-501 (Fordham Boulevard)	Ephesus Church Road	Construct extension of existing roadway (Elliott Rd) on new location between Ephesus Church Rd and US 15/501.	\$ 10,138,000	Orange	Funding request less than SPOT 5 - only asking for construction \$\$			7.42
10	H170117		Division Needs	SR 1171 (Riddle Road)	SR 2100 (South Alston Avenue)		Construct roundabout	\$ 1,600,000	Durham				6.35
15	H170804		Regional Impact	US 70	US 70 Connector		Reconstruct interchange to an at-grade intersection.	\$ 30,406,000	Orange	SPOT dropdowns do not pertain to this project; cost is way too high		9.79	4.60
17	H150280		Division Needs	SR 1148 (Eno Mountain Road), SR 1192 (Mayo Street)	SR 1006 (Orange Grove Road)		Construct new alignment of Eno Mountain Road to align with Mayo Street and install signal.	\$ 8,700,000	Orange				4.60
5	H140374-E	U-6071	Regional Impact	NC 54	SR 1937/SR 1107 Old Fayetteville Road		Improve intersection	\$ 1,700,000	Orange	Should be a carryover project;			
1	H170785		Statewide Mobility	NC 147 (Durham Freeway)	Elba Street/Trent Drive		Improve ramps by tying them into a roundabout with Elba Street and Trent Drive.	\$ 1,850,000	Durham	Potential removal? SPOT Online does not understand project.			

New Projects													
37	H190712		Statewide Mobility	I-40	Davis Drive		Widen exit and entrance ramps and construct/lengthen turn lanes on Davis Drive	N/A	Durham	Cost shown is cost to NCDOT; SPOT Online cost is way too high; RTF would contribute \$900K	45.91	25.82	17.49
36	H190434		Regional Impact	NC 751	O'Kelly Chapel Road	Martha's Chapel	Modernization	\$ 5,399,000	Chatham			22.07	16.71
26	H190419		Regional Impact	NC 98	Lynn Road	Mineral Springs Road	Safety and bike/ped	\$ 24,272,000	Durham	Continuation of U-6120		21.23	15.19
27	H190420		Regional Impact	NC 751	Fayetteville Road	O'Kelly Chapel Road	Widen to four lanes	\$ 7,807,000	Durham, Chatham			20.23	16.10
33	H184472		Division Needs	Erwin Road	Whitfield Road		Intersection improvements	N/A	Orange	Roundabout			14.84
25	H190418		Regional Impact	US 70 Business (Hillsborough Road)	Neal Road		Improve intersection	\$ 2,214,000	Durham	Roundabout		19.52	12.68
22	H190415		Regional Impact	US 501 Business (Roxboro Road)	NC 55 (Avondale Road)		Improve intersection	\$ 2,952,000	Durham	Two-lane roundabout. Include in H170375?		19.37	12.84
36A	H190732		Regional Impact	NC 751	O'Kelly Chapel Road	US 64	Modernization	\$ 13,718,000	Chatham	TARPO supports project; why is shoulder width score so low?		18.76	12.89
29	H190426		Division Needs	Jack Bennett/Lystra Roads	US 15/501	Farrington Point Road	Modernization	\$ 4,899,000	Chatham	Check Shoulder Widths			11.93
34	H190432		Division Needs	Eubanks	Park and Ride	Millhouse	Widen to four lanes with bike lanes and sidewalks	\$ 3,785,000	Orange				10.30
38	H184273		Division Needs	Alston Avenue	Carpenter Fletcher Road		Intersection improvements	\$ 2,241,000	Durham	Roundabout			10.18
18	H184333		Statewide Mobility	Cole Mill Road	NC 147	US 70 Business	Extend Cole Mill Road from its current terminus at Hillsborough Road to NC 147 and create an interchange. Remove the ramp from US 15/501 SB to NC 147 NB.	\$ 60,912,000	Durham		31.27	15.79	9.21
	H190738		Regional Impact	Davis Drive/NC 54	Park Drive East	Park Drive West	Improve intersections	\$ 8,402,000	Durham	Add turn lanes		14.98	10.52
23	H190416		Regional Impact	US 15/501 Business	University Drive		Improve intersection	\$ 2,214,000	Durham	Roundabout		12.77	8.60
24	H190417		Division Needs	Morreene Road	American Drive		Improve intersection	\$ 2,214,000	Durham	Roundabout			7.90
32	H190430		Division Needs	Farrington Point Road	Mt. Carmel Church Road	Old Farrington Road	Improve intersection	\$ 2,214,000	Chatham	Roundabout			6.88
39	H190600		Statewide Mobility	US 70	Page Road Extension		Convert grade separation to Interchange	\$ 15,960,000	Durham		11.24	6.97	4.80
21	H190601		Division Needs/ Statewide Mobility	US 70	Angier Avenue		Convert grade separation to Interchange	\$ 15,960,000	Durham		5.83	4.21	3.40
35	H190523		Division Needs	Lebanon Road	Mill Creek Road	Efland-Cedar Grove Road	Intersection and safety improvements	\$ 4,088,000	Orange	Turn lanes at four intersections and roundabout			1.43
30	H190428		Division Needs	Andrews Store Road	Manns Chapel Road		Improve intersection	\$ 463,000	Chatham	Signalization			0.39
20			Division Needs/ Statewide Mobility	US 70	New Glover Road		Road on new location and new interchange	\$ 15,960,000	Durham		0.07	0.07	0.07
31	H190429		Division Needs	Andrews Store Road	Woodland Grove Lane		Improve intersection	\$ 463,000	Chatham	Signalization			0.00
19			Statewide Mobility	I-40	Fayetteville Road		Improve interchange	N/A	Durham	Major improvement not in MTP; could be submitted safety and operational improvement (which would make it MTP-eligible)			
28	H184275		Regional Impact	US 70 Bypass	NC 86		Intersection improvements	N/A	Orange	Roundabout score, include in bypass improvement? Needed with US 70 project?			

Potentially Submitted by Others										
47	H111162		Division Needs	SR 1005 (Old Greensboro Road)	SR 1942 (Jones Ferry Rd)	NC 87 in Alamance County	Modernize and add 4-foot Paved Shoulders	\$ 42,500,000	Orange, Alamance	Submitted by TARPO; DCHC applied points in SPOT 5
48	H140374-A		Regional Impact	NC 54	SR 1006 (Orange Grove Rd)	SR 1937 / SR 1107 (Old Fayetteville Rd)	Widen to a four-lane boulevard	\$ 83,000,000	Orange	Submitted by Division 7
49	H170298		Statewide Mobility	US 15, US 501	NC 751	Pickett Road Overpass	Widen section of 15-501 bypass between Tower and NC 751 to 6 lanes	\$ 54,300,000	Durham	Submitted by Division 5
50	H172045		Statewide Mobility	I-40	NC 54 (exit 273)	NC 751 (exit 274)	Construct auxiliary lane between ramps	\$ 15,200,000	Durham	Submitted by Division 5
51	H172189		Regional Impact	Division 5 Non-Municipal Divisionwide Signal System			Add cameras and fiber to signals in division 5 which are outside of municipal systems and upgrade software and add equipment to enable monitoring of signals by Division staff. Division wide project. Will provide the list of signals.	\$ 4,600,000	Wake, Granville, Person, Franklin	Submitted by Division 5; DCHC applied points in SPOT 5
52	H184324		Regional Impact	NC 98	Sherron/Stallings/Patterson		Intersection improvements		Durham	Recommended by NC 98 Corridor Study; to be submitted by Division?
53			Division Needs	Old Oxford Highway	Butner	Stagville Road	Modernize Highway, Realign Intersection with Stagville Road, and Add Sidepath		Durham, Granville	Potential submission by Kerr-Tar RPO
54			Statewide Mobility	I-85	Red Mill Road	Gate 2 Road	Widen to six lanes		Durham, Granville	Potential submission by Kerr-Tar RPO

SPOT 6 DCHC Bike/Ped Submittal List
Staff Recommendations
January 22, 2020

#	SPOT ID	Route / Facility Name	From / Cross Street	To / Cross Street	Description	Cost to NCDOT	Jurisdiction	SPOT 5 DIVISION NEEDS Quantitative Score (Out of 50)	Notes
1	B170485	American Tobacco Trail	US 70 Business (Ramseur Street)	American Tobacco Trail	Construct tunnel underneath NCRR. Extend path to connect American Tobacco Trail to Downtown Durham and future Duke Belt Line Trail.	\$ 9,741,612	City of Durham	40.24	
2	B150143	Sandy Creek Trail	Pickett Rd	Al Buehler Trail at Cornwallis Rd	Construct a shared use trail.	\$ 2,847,422	City of Durham	40.08	
3	B170480	NC 54	RTP Trail	American Tobacco Trail	Construct a shared use path along one side of the roadway and pedestrian intersection improvements and sidewalk connections to bus stops on both sides of the road.	\$ 6,798,330	City of Durham	39.91	
4	B170481	NC 55 (Apex Highway)	American Tobacco Trail Spur	Cornwallis Road	Construct shared use path on one side of roadway and make intersection improvements.	\$ 4,609,168	City of Durham	39.82	
5	B170469	SR 1183 (University Drive) and Old Chapel Hill Road	SR 1116 (Garrett Road)	Martin Luther King Jr. Parkway	Construct shared use path along one side of the roadway.	\$ 2,246,078	City of Durham	39.06	
6	B141106	Horton Road	US 501 Business (Roxboro Road)	NC 157 (Guess Road)	Construct a sidewalk on one side of the road, sidepath on the other side.	\$ 5,090,502	City of Durham	38.95	
7	B170482	US 15/501 Business (University Drive)	Woodridge Drive	US 15/501 Business Lakewood Avenue	Construct sidewalks along entire length and bicycle lanes where needed.	\$ 4,339,496	City of Durham	38.80	
8	B150405	Cook Rd	American Tobacco Trail	Martin Luther King Jr Parkway	Construct buffered bike lanes and sidewalks on both sides of the road.	\$ 6,599,861	City of Durham	38.75	
9	B170468	SR 1669 (Club Boulevard)	SR 1332 (Broad Street)	Washington Street/Ellerbe Creek Trail	Construct bicycle lanes on both sides of the street and improve intersections for bicycle and pedestrian crossings.	\$ 1,849,507	City of Durham	38.75	
10	B170470	US 501 (Roxboro Road)	SR 1456 (Milton Road)	Fairfield Road	Construct sidewalks on both sides of the road.	\$ 6,655,782	City of Durham	38.42	
11	B170479	SR 1959 (Miami Boulevard)	SR 1954 (Ellis Road)	Cornwallis Road	Construct a multi-use pathway along east side of Miami Boulevard.	\$ 5,932,258	City of Durham	38.23	
12	B170526	Warren Creek Trail Phase II	Warren Creek Trail/Horton Road	US 501	Construct a shared use trail through and outside the boundary of West Point on the Eno Park.	\$ 1,976,022	City of Durham	38.01	
13	B170467	NC 55 (Apex Highway)	Meridian Parkway	Carpenter Fletcher Road	Construct pedestrian facilities on both sides of the road.	\$ 1,886,285	City of Durham	37.97	U-6118 reduces need for original length of project; adjust
14	B170484	US 15/501 Business (Durham-Chapel Hill Boulevard)	Nation Avenue	US 15/501 Business (University Drive)	Construct sidewalks, improve bicycle lanes, and install intersection improvements.	\$ 3,392,554	City of Durham	37.68	
15	B170466	NC 98 (Holloway Street)	Lynn Road	Ganyard Farm Way	Construct sidewalks on both sides of the road and include intersection improvements.	\$ 6,000,552	City of Durham	35.97	U-6120 reduces need for original length of project; adjust
16	B150104	NC 751 (Academy Road), Cornwallis Road	Duke University Rd	Chapel Hill Rd	Construct on road bicycle lanes and sidewalks for the entire length of the route.	\$ 4,859,386	City of Durham	34.80	
17	B170478	Old Durham-Chapel Hill Road	SR 1113 (Pope Road)	Mount Moriah Road	Construct a bicycle and pedestrian bridge along Old Durham-Chapel Hill Road across I-40. Facility may not be required to be the full length of the road segment.	\$ 4,444,910	City of Durham	31.84	
18	B170402	NC 86 (Martin Luther King, Jr. Parkway)	SR 1770 (Estes Drive)	SR 1777 (Homestead Road)	Construct bicycle lanes and upgrade sidewalks along NC 86.	\$ 614,169	Chapel Hill	31.48	
19	B171043	US 15-501 (Fordham Boulevard)	Legion Road (future)	Service Road	Construct a bicycle/pedestrian bridge over US 15-501 (Fordham Boulevard) in Chapel Hill from where the future Legion Road extension will be on the east side of Fordham Boulevard to the service road on the west side.	\$ 2,400,000	Chapel Hill	31.15	
20	B170483	NC 54, Alston Avenue	Cornwallis Road	RTP Trail	Construct bicycle lanes and sidewalks.	\$ 8,953,131	City of Durham	30.53	
21	B150258	Tanyard Branch-Carrboro Connector	Broad Street	Village Drive and Tanyard Branch Greenway	Construct an off-road multi-use path providing bicycle and pedestrian safety.	\$ 600,000	Chapel Hill	30.44	
22	B141356	Hardee St/SR 1800 (Cheek Road)	NC 98 (Holloway St)	SR 1800 (Cheek Rd/Sherwood Park)	Construct sidewalks and bike lanes on Hardee Street, construct sidewalks on Cheek Road.	\$ 5,779,080	City of Durham	30.21	
23	B171175	SR 1843 (Seawell School Road)	SR 1780 (Estes Drive Extension)	SR 1777 (Homestead Road)	Construct a sidepath along the entire corridor from Estes Drive to Homestead Road.	\$ 3,341,552	Carrboro	29.19	
24	B150122	SR 1669 (Club Boulevard)	Ambridge St	SR 1666 (Dearborn Dr)	Construct on road bicycle lanes and sidewalks for the entire length of the route.	\$ 3,852,229	City of Durham	24.81	
25	B170403	SR 1008 (Mt. Carmel Church Road)	US 15/501	SR 1913 (Bennett Road)	Construct a multi-use path on one side of Mt. Carmel Church Road.	\$ 800,000	Chapel Hill	23.03	
26	N/A	Orange High School/Harold Latta Road	US 70 Bypass	Cloverfield Road	Construct sidewalks, high visibility crosswalks, and signage	N/A	Orange County	N/A	
27	N/A	Bolin Creek Greenway Extension	Umstead Park	Estes Drive	Extend Bolin Creek Greenway from Umstead Park to Estes Drive to connect bike-ped facilities	\$3,500,000	Chapel Hill	N/A	Extension of Bolin Creek Greenway
28	N/A	East Franklin Street Sidepath	Bolin Creek Greenway	Booker Creek Greenway	Construct sidepath along north side of Franklin Street to connect Bolin and Booker Creek	\$2,300,000	Chapel Hill	N/A	
29	N/A	Estes Drive	Caswell Road	E Franklin Street	Construct bicycle lanes and sidewalks.	\$3,600,000	Chapel Hill	N/A	
30	N/A	Miami Boulevard	US 70	I-40	Construct sidepath on one side or bicycle lanes.	N/A	Durham City/County	N/A	Requested by citizen

Number of Submittals by Jurisdiction:

Carrboro: 1
 Chapel Hill: 7
 Chatham County: 0
 City of Durham: 21
 Durham County: 1
 Hillsborough: 0
 Orange County: 1

Recommended Removals

31	N/A	American Tobacco Trail	O'Kelly Chapel Road		Install HAWK signal at crossing of O'Kelly Chapel Road	N/A	Chatham County/Cary	N/A	Replace B171147; potential regional bike-
32	N/A	Hillsborough North-South Bike/Ped Connector	Bridge over I-85		Bridge over I-85	N/A	Hillsborough	N/A	Replaces road in MTP; will not score well due to lack of connectivity; save for SPOT 7
33	B150435	Old NC 86 - Hillsborough Road	SR 1777 (Homestead Road)	Farm House Road	Construct bicycle lanes on both sides of roadway	\$ 990,199	Carrboro	19.22	Removed by mutual agreement
34	B171963	SR 1010 (West Franklin Street)	SR 1010 (East Main Street)	Merritt Mill Street/Brewer Lane	Construct pedestrian improvements, such as crosswalks, improved signage, and pedestrian signals, at the West Franklin/East Main/Merritt Mill/Brewer intersection on the border of Chapel Hill	\$ 279,680	Chapel Hill/Carrboro	29.47	Being constructed by Division 7
35	B150456	SR 1843 (Seawell School Road)	SR 1780 (Estes Drive Extension)	SR 1777 (Homestead Road)	Improve bicycle and pedestrian facilities along the entire corridor from Estes Drive to Homestead Road. Construct bike lanes and sidewalks to fill-in gaps.	\$ 3,341,552	Carrboro	24.56	Sidewalk scores better (B171175)
36	B171147	American Tobacco Trail	American Tobacco Trail	American Tobacco Trail	Construct a tunnel or bridge across O'Kelly Chapel Road.	\$ 2,417,453	Chatham County/Cary	25.65	Replace with HAWK signal

SPOT 6 DCHC Highway Submittal List
Staff Recommendations
January 22, 2020

Route / Facility Name	From / Cross Street	To / Cross Street	Description	Project Category	County(s)	Jurisdiction	Submitted in SPOT 5?	Notes
Elliott Road	US 15-501 (Fordham Boulevard)	Ephesus Church Road	Construct extension of existing roadway (Elliott Rd) on new location between Ephesus Church Rd and US 15/501	Division Needs	Orange	Chapel Hill	Y	
Eubanks Road	Park and Ride	Millhouse	Widen to four lanes with bike lanes and sidewalks	Division Needs	Orange	Chapel Hill	N	
NC 751	O'Kelly Chapel Road	Martha's Chapel or US	Modernization w/ Sidepath	Regional Impact	Chatham	Chatham County	N	
Jack Bennett/Lystra Roads	US 15/501	Farrington Point Road	Modernization	Division Needs	Chatham	Chatham County	N	
NC 751	Fayetteville Road	O'Kelly Chapel Road	Widen to four lanes	Regional Impact	Chatham, Durham	Chatham County/ Durham County	N	
US 501 (Roxboro Road)	US 501 Bypass (Duke Street)	Omega Road	Construct median, access management facilities, safety improvements, bicycle and pedestrian facilities, and transit stop	Regional Impact	Durham	City of Durham	Y	
US 501 Business (Roxboro Road)	NC 55 (Avondale Drive)	SR 1004 (Old Oxford Road)	Construct median along section with potential turn lanes at Lavender Avenue, Bon Air Avenue, and Murray Avenue. Fill in sidewalk gaps and provide streetscape amenities.	Regional Impact	Durham	City of Durham	Y	Include intersection improvements at Roxboro/ Avondale
Garrett Road	NC 751 (Hope Valley Road)	SR 2220 (Old Chapel Hill Road)	Upgrade roadway corridor to increase capacity and construct bicycle and pedestrian facilities and transit stop improvements.	Division Needs	Durham	City of Durham	Y	Check cross-section
NC 751 (Hope Valley Road)	South Roxboro Road	Woodcroft Parkway	Widen to four lanes with bike lanes and sidewalks. Improve the NC 751 & South Roxboro Road intersection.	Regional Impact	Durham	City of Durham	Y	
NC 751 (Hope Valley Road)	NC 54	Southpoint Auto Park Blvd	Widen to four lanes with a median with bicycle, pedestrian and transit facilities	Regional Impact	Durham	City of Durham	Y	
Hopson Road	NC 54	Distribution Drive	Widen to a four lane divided roadway with bicycle and pedestrian facilities.	Division Needs	Durham	City of Durham	Y	
Hillandale Road	Horton Road		Construct roundabout	Division Needs	Durham	City of Durham	Y	
US 501 Business (Roxboro)	Horton Road		Install turn lanes on US 501 Business (Roxboro Road) at Horton Road.	Regional Impact	Durham	City of Durham	Y	
Riddle Road	South Alston Avenue		Construct roundabout	Division Needs	Durham	City of Durham	Y	
US 70 Business (Hillsborough)	Neal Road		Improve intersection	Regional Impact	Durham	City of Durham	N	
Cole Mill Road	NC 147	US 70 Business	Extend Cole Mill Road from its current terminus at Hillsborough Road to NC 147 and create an interchange. Remove the ramp from US 15/501 SB	Statewide Mobility	Durham	City of Durham	N	
Northern Durham Parkway	I-85	SR 1004 (Old Oxford Road)	Construct multi-lane roadway on new location.	Division Needs	Durham	Durham City/County	Y	
Northern Durham Parkway	US 70	SR 1811 (Sherron Road)	Construct roadway on new location.	Division Needs	Durham	Durham City/County	Y	

NC 98 (Holloway Street)	Lynn Road	Mineral Springs Road	Safety and bike/ped	Regional Impact	Durham	Durham City/County	N	
I-40	Davis Drive		Widen exit and entrance ramps and construct/lengthen turn lanes on Davis	Statewide Mobility	Durham	Durham County	N	
NC 86	US 70 Bypass	North of NC 57	Widen to four lanes with a median and Improve intersections at US 70 Bypass and NC 57.	Regional Impact	Orange	Hillsborough	Y	Check cross-section and intersection improvements
Eno Mountain Road/Mayo Street	Orange Grove Road		Construct new alignment of Eno Mountain Road to align with Mayo Street and install signal.	Division Needs	Orange	Hillsborough	Y	
US 70	US 70 Connector		Reconstruct interchange to an at-grade intersection.	Regional Impact	Orange	Orange County	Y	
Erwin Road	Whitfield Road		Intersection improvements	Division Needs	Orange	Orange County	N	

*Number of Submissions by Jurisdiction:

Carrboro: 0**
 Chapel Hill: 2
 Chatham County: 3
 City of Durham: 14
 Durham County: 5
 Hillsborough: 2
 Orange County: 2

*Projects that are in more than one jurisdiction are counted for both

**U-6071 is assumed to be carryover and therefore not listed here

SPOT 6 DCHC Rail Submittal List
Staff Recommendations
January 22, 2020

SPOT 5 SCORE

#	SPOT ID	TIP	Project Category	Route / Facility Name	Description	Cost to NCDOT	County	Statewide Mobility Quantitative Score (Out of 100)	REGIONAL IMPACT Quantitative Score (Out of 70)	DIVISION NEEDS Quantitative Score (Out of 50)	Notes
1	R140014	P-5716	Statewide Mobility	NS/NCRR H Line	Construction of grade separation at SR 1954 (W. Ellis Road) and closure of existing at-grade crossing (Crossing # 735 236Y) in Durham.	\$ 11,750,000	Durham	71.97	49.33	34.80	
2	R150312	P-5728	Statewide Mobility	NS/NCRR H Line	Construction of grade separation at SR 1317 (Neal Road) and closure of existing at-grade crossing (Crossing # 735 202E) in Durham.	\$ 5,492,000	Durham	64.17	42.13	29.26	
3	R150325		Statewide Mobility	NS/NCRR H Line	Construction of at-grade crossing improvements at Blackwell Street (Crossing # 735 229N), US 15 (Mangum Street) (Crossing # 735 231P), and SR 1118 (Fayetteville Street) (Crossing # 910 605Y) per Durham TSS in Durham.	\$ 650,000	Durham	60.07	45.78	32.96	
4	R150318		Statewide Mobility	NS/NCRR H Line	Construction of grade separation at Dimmocks Mill Road (Crossing # 735 154S) and closure of Bellvue Street existing at-grade crossing (Crossing # 735 152D) and West Hill Avenue existing at-grade crossing (Crossing # 735 151W). Project includes a pedestrian tunnel at Hill Avenue.	\$ 21,575,000	Orange	52.84	33.08	22.86	
5	R150320		Statewide Mobility	NS/NCRR H Line	Construction of second main track from East Durham Yard (MP 58.5) to Nelson (MP 63.5) in Durham.	\$ 53,900,000	Durham	44.08	34.22	21.70	
6	R170032		Statewide Mobility	NCRR/NS H line	Construction of curve radius improvements from MP H 44.5 to MP H 48 west of Hillsborough.	\$ 3,500,000	Orange	42.85	31.97	21.97	
7	R170033		Statewide Mobility	NCRR/NS H line	Construction of curve radius improvements from MP H 38 to MP H 40.4 near Effland.	\$ 3,500,000	Orange	24.27	18.90	17.16	
8	R170029		Statewide Mobility	NS/NCRR H Line	Construction of new railroad bridge, or other railroad approved method, over Exchange Park Lane (Crossing #735 158U) to accommodate pedestrian traffic within the structure.	\$ 7,400,000	Orange	23.47	16.56	12.46	
9	R150319		Statewide Mobility	NS/NCRR H Line	Construction of second main track from Control Point Funston (MP 49.8) to East Durham Yard (MP 56) in Durham.	\$ 50,800,000	Durham	10.73	8.21	10.73	
10	R171833		Statewide Mobility	I-40 Rail Bridge in Durham County	Construct triple track bridge over I-40 in Durham County.	\$ 20,000,000	Durham	7.36	4.91	7.36	
11	N/A		Statewide Mobility	NCRR/NS H line	Construction of curve radius improvements near Hillsborough (Collins)	N/A	Orange	N/A	N/A	N/A	Verify MP
12	N/A		Regional Impact	US 15 Business (Roxboro Street)	Improve the crossing at US 15/501 Business (Roxboro Street) in Downtown Durham. Make the bridge higher to reduce truck conflict, make the span wider to facilitate a future two-way of Roxboro Street, and make the bridge wider to be able to accommodate four tracks. Potentially create an intersection at Ramseur and Roxboro.	\$ 31,100,000	Durham	N/A	19.07	21.88	Scores poorly. Per SPOT office must submit as rail project.
13	N/A		Statewide Mobility	NCRR/NS H line at Fayetteville Street	Install 3 WCR's, four crosswalks and relocate stop bars for pedestrian access.	N/A	Durham	N/A	N/A	N/A	
14	N/A		Statewide Mobility	NCRR/NS H line at Mangum Street	Install 200' of decorative fence, four streetscape lights, six WCRs and sidewalk for pedestrian safety.	N/A	Durham	N/A	N/A	N/A	
15	N/A		Statewide Mobility	NCRR/NS H line at Blackwell/Corcoran Streets	Install 200' of decorative fence and 25' of restricted access fence, four streetscape lights, four WCRs and sidewalk. Improve safety by clustering traffic signal cabinets on north and south side of crossing.	N/A	Durham	N/A	N/A	N/A	
16	N/A		Statewide Mobility	NCRR/NS H line at Chapel Hill Street	Repair sidewalks, concrete structures and wing walls. Improve landscaping near wing wall. Sandblast, repair, and repaint bridge structure. Remove 100' sidewalk. Bore 100' 2" conduit for pedestrian signal cable.	N/A	Durham	N/A	N/A	N/A	
17	N/A		Statewide Mobility	NCRR/NS H line at Duke	Install 3 WCRs and three crosswalks for pedestrian access and safety.	N/A	Durham	N/A	N/A	N/A	

18	N/A		Statewide Mobility	NCRR/NS H line at Buchanan Boulevard	Install two WCRs and one crosswalk for pedestrian access and safety.	N/A	Durham	N/A	N/A	N/A	
19	N/A		Statewide Mobility	NCRR/NS H line at Swift Avenue	Widen shoulder on Buchanan Boulevard within RR ROW with edgeline for pedestrian access and safety. Install four WCRs and two crosswalks.	N/A	Durham	N/A	N/A	N/A	
*	N/A		Regional Impact	Amtrak	Purchase of passenger rail cars	N/A	Statewide	N/A	N/A	N/A	Submitted by Rocky Mount MPO; requesting 11 points from DCHC (percent of track in DCHC jurisdiction)

*To be submitted by another agency

SPOT 6 DCHC Transit Submittal List
Staff Recommendations
January 22, 2020

SPOT 5 SCORE

#	SPOT ID	TIP	Project Category	Route / Facility Name	Description	Cost to NCDOT	County(s)	REGIONAL IMPACT Quantitative Score (Out of 70)	DIVISION NEEDS Quantitative Score (Out of 50)	Notes
Holding Tank Projects										
1	T150449		Division Needs	Village Neighborhood Transit Center	Design and Construction of NTC: Village Neighborhood Transit Center. Serves GoDurham routes 2B, 3, 3B, 3C	\$ 171,000	Durham	N/A	35.10	10% of project cost
2	T150453		Division Needs	Fayetteville Street TEC	Construct sidewalks, bus stop improvements (including shelters), and better access to stops along Fayetteville Street in Durham. This corridor includes GoDurham routes 5, 5K, 7, 14 and GoTriangle routes 800, 805.	\$ 133,000	Durham	N/A	41.35	10% of project cost
3	T150993	TD-5297	Division Needs	Regional Transit Center	An improved location to increase the efficiency of the overall regional system. The project includes 10 bus bays and 150 parking spaces in a structured facility.	\$ 1,040,000	Durham	N/A	25.58	
4	T171692		Regional Impact	CRT West Durham to Auburn		\$ 111,421,000	Wake, Durham	34.63	24.45	
5	T171711		Regional Impact	GoTriangle DRX Route bus service expansion	Purchase 3 additional vehicles to support headway reduction on DRX route.	\$ 135,000	Wake, Durham	29.63	22.59	
6	T171722		Regional Impact	GoTriangle ODX Route bus service expansion	Purchase one additional vehicle to support headway reduction on the ODX route.	\$ 48,000	Durham, Orange, Alamance	20.56	15.93	
New Projects										
7	N/A		Division Needs	Chapel Hill N-S BRT	Eubanks to Southern Village	\$ 35,000,000	Orange	N/A	N/A	
8	N/A		Division Needs	Chapel Hill N-S BRT	Hillsborough to Southern Village	\$ 38,827,000	Orange	N/A	N/A	
9	N/A		Regional Impact	Chapel Hill N-S BRT	Eubanks to Chatham Park	\$ 47,118,400	Orange, Chatham	N/A	N/A	
10	N/A		Regional Impact	CRT West Durham to Clayton		N/A	Wake, Durham	N/A	N/A	
11	N/A		Regional Impact	CRT Hillsborough to Auburn		N/A	Wake, Durham	N/A	N/A	
12	N/A		Regional Impact	CRT Hillsborough to Clayton		N/A	Wake, Durham	N/A	N/A	
13	N/A		Regional Impact	HCT Duke to Downtown Cary		N/A	Durham, Wake	N/A	N/A	Extension of Funded CAMPO BRT Project
14	N/A		Regional Impact	HCT NCCU to UNC Hospital		N/A	Durham, Orange	N/A	N/A	Based on US 15/501 Corridor Study
15	N/A		Regional Impact	HCT Carrboro to Leigh Village		N/A	Durham, Orange	N/A	N/A	In conjunction with U-5774
16	N/A		Regional Impact	HCT UNC Hospital to Southpoint		N/A	Durham, Orange	N/A	N/A	In conjunction with U-5774
17	N/A		Division Needs	HCT East Durham - Holloway and Liberty Streets		N/A	Durham	N/A	N/A	Not in MTP?
18	N/A		Division Needs	Southpoint Transit Center		\$ 47,000	Durham	N/A	N/A	10% of project cost
19	N/A		Division Needs	Chapel Hill Road TEC		\$ 89,000	Durham	N/A	N/A	10% of project cost
20	N/A		Regional Impact	CRX Route Expansion		N/A	Orange, Wake	N/A	N/A	
21	N/A		Regional Impact	GoTriangle 400 Route Expansion		N/A	Durham, Orange	N/A	N/A	
22	N/A		Regional Impact	GoTriangle 405 Route Expansion		N/A	Durham, Orange	N/A	N/A	
23	N/A		Regional Impact	GoTriangle 800/805 Route Expansion		N/A	Durham, Orange	N/A	N/A	
24								N/A	N/A	
Recommended Removals										
25	T171904		Regional Impact	Mebane to Selma Commuter Rail Service	Construct infrastructure and service for commuter rail service from Mebane to Selma. Project includes 12 locomotives and 24 coaches.	\$ 250,727,364	Wake, Durham, Johnston	31.48	19.26	
26	T171898		Regional Impact	Commuter Rail from Durham to Garner	Construct commuter rail service and infrastructure. Project includes 4 locomotives and 8 coaches.	\$ 111,421,000	Wake, Durham	46.67	32.59	
27	T171911		Regional Impact	Durham to Raleigh Commuter Rail Service	Construct infrastructure and service for commuter rail service from Durham to Raleigh. Project includes 4 locomotives and 8 coaches.	\$ 84,896,916	Wake, Durham	43.89	30.74	
28	T171912		Regional Impact	Durham to Wake Forest Commuter Rail	Construct infrastructure and service for commuter rail service from Durham to Wake Forest. Project includes 6 locomotives and 12 coaches.	\$ 135,698,527	Wake, Durham	40.19	27.41	

29	T171915		Regional Impact	Durham to Raleigh to Garner/Wake Forest commuter rail	Construct infrastructure and service for 8-2,8-2 service to Raleigh and 4-1,4-1 service to Wake Forest and Garner. Project includes 6 locomotives and 12 coaches.	\$ 162,222,611	Wake, Durham	39.45	27.04	
Submitted by Others										
30	N/A		Division Needs	West NC 54 Park and Ride		N/A	Orange	N/A	N/A	Submitted by TARPO?
31	N/A		Division Needs	Five ADA-accessible minivans for demand response in northern Orange County		N/A	Orange	N/A	N/A	Submitted by TARPO?

MEMORANDUM

To: DCHC MPO Board

From: DCHC MPO Lead Planning Agency

Date: January 22, 2020

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 adopted

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
- ✓ Adopt 2045 MTP Amendment #2 – November 2019

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
- Rolling Household Survey – nearing completion

Prioritization 6.0 - FY 2023-2032 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) – June 2019
- ✓ SPOT On!ine opens for entering/amending projects – October 2019
- ✓ MPO submits carryover project deletions and modifications – December 2019
- Board releases draft SPOT 6 project list for public comment – March 2020
- Board holds public hearing and approves new projects to be submitted for SPOT 6 – April 2020
- MPO submits projects to NCDOT – April 2020
- LPA updates local ranking methodology – Summer 2020
- Board approves local ranking methodology – Fall 2020
- MPO applies local ranking methodology for Regional projects – Winter 2021
- Board releases MPO initial Regional points list for local input/public comments – March 2021
- Approval of Regional Impact points – April 2021
- MPO applies local ranking methodology for Division projects – Summer 2021
- Board releases MPO initial Division points list for local input/public comments – September 2021
- Approval of Division Needs points – October 2021
- Draft STIP Released – February 2022
- Board of Transportation adopts FY2023-2032 STIP – June 2022
- MPO Board adopts FY2023-2032 MTIP – September 2022

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
- ✓ Forecasts of future demands (2035 and 2045)
- ✓ Evaluation of future conditions
- ✓ Strategic freight corridors and zones
- ✓ Recommendation & implementation strategies
- ✓ Final report and presentation – September 2018
- ✓ Release formal report for public comment – September 2018
- ✓ Approve final report – May 2019

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, phase one – September 2018
- ✓ Public input – October-November 2018
- ✓ Revisions and additional data collection – March-May 2019
- ✓ Presentations to TC and Board – August-September 2019
- ✓ Public input – October-November 2019

- ✓ Final draft – November-December 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
- ✓ Project on hold until decision on how to move forward with transit
- 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
- ✓ Screening and presentation to MPO Boards at joint MPO Board Meeting – October 2018
- ✓ Complete Tier 2 corridor screening and present to MPO Board – June 2019
- Public input
- Final report

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: C202581 Division: 5 TIP Number: EB-4707A Length: 0.96 miles NCDOT Contact: James M. Nordan, PE Location Description: SR-1838/SR-2220 FROM US-15/501 IN ORANGE COUNTY TO SR-1113 IN DURHAM COUNTY. Contractor Name: S T WOOTEN CORPORATION Contract Amount: \$4,614,460.00 Work Began: 05/28/2019 Original Completion Date: 02/15/2021 Latest Payment Thru: 12/07/2019 Latest Payment Date:		Route: SR-1838 County: Durham Federal Aid Number: STPDA-0537(2) NCDOT Contact No: (919)220-4680 Letting Date: 04/16/2019 Revised Completion Date: Construction Progress: 1.73%
Contract Number: C203394 Division: 5 TIP Number: U-0071 Length: 4.009 miles NCDOT Contact: Cameron D. Richards 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 Work Began: 02/26/2015 Original Completion Date: 05/10/2020 Latest Payment Thru: 12/22/2019 Latest Payment Date: 01/06/2020		Route: I-885, NC-147, NC-98 US-70 County: Durham Federal Aid Number: NCDOT Contact No: (919)835-8200 Letting Date: 11/18/2014 Revised Completion Date: 08/01/2020 Construction Progress: 85.96%
Contract Number: C203567 Division: 5 TIP Number: U-3308 Length: 1.134 miles NCDOT Contact: James M. Nordan, PE 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 Work Began: 10/05/2016 Original Completion Date: 03/30/2020 Latest Payment Thru: 11/15/2019 Latest Payment Date:		Route: NC-55 County: Durham Federal Aid Number: STP-55(20) NCDOT Contact No: (919)220-4680 Letting Date: 07/19/2016 Revised Completion Date: 02/11/2021 Construction Progress: 63.61%
Contract Number: C204167 Division: 5 TIP Number: Length: 24.77 miles NCDOT Contact: James M. Nordan, PE Location Description: 51 SECTIONS OF SECONDARY ROADS. Contractor Name: CAROLINA SUNROCK LLC Contract Amount: \$4,355,108.47 Work Began: 08/01/2018 Original Completion Date: 11/30/2019 Latest Payment Thru: 10/31/2019 Latest Payment Date: 12/23/2019		Route: SR-1118, SR-1407, SR-1648 SR-1794, SR-1811, SR-1906 SR-1966, SR-1973, SR-2095 County: Durham Federal Aid Number: STATE FUNDED NCDOT Contact No: (919)220-4680 Letting Date: 05/15/2018 Revised Completion Date: Construction Progress: 81.76%
Contract Number: C204211 Division: 5		Route: I-40, I-85, NC-55 NC-98, US-15, US-501 US-70 County: Durham

TIP Number: U-5968 Length: 0.163 miles NCDOT Contact: James M. Nordan, PE Location Description: CITY OF DURHAM. Contractor Name: BROOKS BERRY HAYNIE & ASSOCIATES, INC. Contract Amount: \$0.00 Work Began: 05/28/2019 Original Completion Date: 08/01/2024 Latest Payment Thru: Latest Payment Date:		Federal Aid Number: STBG-0505(084) NCDOT Contact No: (919)220-4680 Letting Date: 04/16/2019 Revised Completion Date: Construction Progress: 0%	
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-1811 US-70 County: Durham Federal Aid Number: STATE FUNDED NCDOT Contact No: (919)220-4680 Letting Date: 10/16/2018 Revised Completion Date: 09/30/2020 Construction 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: 11/07/2019 Latest Payment Date: 12/23/2019		Route: NC-751, SR-1183 County: Durham Federal Aid Number: NCDOT Contact No: (919)220-4680 Letting Date: 01/15/2019 Revised Completion Date: Construction Progress: 89.67%	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
December 2019

Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
17BP.5.R.133	BRIDGE 49 OVER ENO RIVER ON SR 1401 (COLE MILL ROAD)		Division POC Let (DPOC)		1/22/2025	Lisa Gilchrist			
17BP.5.R.134	BRIDGE 82 OVER LICK CREEK ON SR 1815 (N MINERAL SPRINGS ROAD)		Division POC Let (DPOC)		1/22/2025	Lisa Gilchrist			
17BP.5.R.126	BRIDGE 262 OVER A CREEK ON SR 1607 (BAHAMA ROAD)		Division POC Let (DPOC)		2/28/2024	Lisa Gilchrist			
17BP.5.R.116	BRIDGE 96 OVER BURDENS CREEK ON SR 1945		Division POC Let (DPOC)		2/22/2023	Lisa Gilchrist			
17BP.5.R.117	BRIDGE 110 OVER LITTLE CREEK ON SR 1110		Division POC Let (DPOC)		2/22/2023	Lisa Gilchrist			
17BP.5.R.84	BRIDGE 61 OVER MOUNTAIN CREEK ON SR 1464		Division POC Let (DPOC)		2/9/2022	Lisa Gilchrist			
17BP.5.R.83	BRIDGE 84 OVER CHUNKY PIE CREEK ON SR 1815		Division POC Let (DPOC)		4/14/2021	Lisa Gilchrist			
SM-5705I			Division POC Let (DPOC)		12/11/2019	Stephen Davidson			Letting planned in spring 2020
SM-5705X			Division POC Let (DPOC)		12/11/2019	Not assigned			Letting planned in spring 2020
17BP.5.R.97	BRIDGE 89 OVER LICK CREEK ON SR 1902		Division POC Let (DPOC)		10/15/2019	Lisa Gilchrist			
2021CPT.05.01	Resurfacing in Durham County		Division Design Raleigh Let (DDRL)		2/19/2019	Christopher A Hoffman			
U-5774B	NC 54 FROM US 15/US 501 IN ORANGE COUNTY TO SR 1110 (BARBEECHAPEL ROAD) IN DURHAM COUNTY	10/18/2024	Raleigh Letting (LET)	6/16/2026	10/17/2028	PAM R. WILLIAMS	\$11,000,000.00	\$30,900,000.00	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
December 2019

Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
U-5774C	NC 54 FROM SR 1110 (BARBEE CHAPEL ROAD) TO I-40	10/18/2024	Raleigh Letting (LET)	6/16/2026	10/17/2028	PAM R. WILLIAMS	\$3,000,000.00	\$23,700,000.00	
U-5774F	NC 54 FROM I-40/NC 54 INTERCHANGE	10/18/2024	Raleigh Letting (LET)	10/20/2026	10/17/2028	PAM R. WILLIAMS	\$54,800,000.00	\$39,300,000.00	
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	7/18/2028	PAM R. WILLIAMS	\$55,000,000.00	\$140,300,000.00	
U-5720A	US 70 (MIAMI BLVD) FROM LYNN ROAD TO SR 1959 (SOUTH MIAMI BOULEVARD/SR 1811 (SHERRON ROAD)	12/15/2023	Raleigh Letting (LET)	3/19/2024	10/20/2026	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	12/15/2023	Raleigh Letting (LET)	3/19/2024	10/20/2026	PAM R. WILLIAMS	\$17,321,000.00	\$25,300,000.00	
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.	10/14/2022	Raleigh Letting (LET)	3/21/2023	10/20/2026	PAM R. WILLIAMS	\$10,202,000.00	\$47,001,000.00	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
December 2019

Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
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	6/30/2020	Raleigh Letting (LET)		1/20/2026	MATTHEW SIMMONS	\$9,000,000.00	\$42,400,000.00	
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-5941	I-85 FROM ORANGE COUNTY LINE TO US 15 /US 501 IN DURHAM PAVEMENT REHABILITATION		Division Design Raleigh Let (DDRL)	12/19/2023	12/17/2024	CHRISTOPHER A. HOFFMAN		\$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	12/17/2024	CHRISTOPHER A. HOFFMAN		\$8,357,000.00	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
December 2019

Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
U-5934	NC 147 FROM I-40 TO FUTURE I-885(EAST END CONNECTOR)IN DURHAM ADD LANES AND REHABILITATE PAVEMENT	10/17/2023	Design Build Let (DBL)	2/15/2022	10/17/2023	PAM R. WILLIAMS	\$2,148,000.00	\$177,100,000.00	
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	
I-5707	I-40 - FROM NC 55 (ALSTON AVENUE) TO NC 147 (DURHAM FREEWAY/TRIANGLE EXPRESSWAY) IN DURHAM	10/16/2020	Raleigh Letting (LET)		6/20/2023	PAM R. WILLIAMS	\$323,000.00	\$7,600,000.00	
U-5516	AT US 501 (ROXBORO ROAD) TO SR 1448 (LATTA ROAD) / SR 1639 (INFINITY ROAD) INTERSECTION IN DURHAM. INTERSECTION IMPROVEMENTS.	4/16/2021	Division Design Raleigh Let (DDRL)	9/15/2020	5/16/2023	JOHN W. BRAXTON JR	\$6,501,430.00	\$8,200,000.00	Project is suspended due to cash balance shortfall.
U-5717	US 15 / US 501 DURHAM CHAPEL-HILL BOULEVARD AND SR 1116 (GARRETT ROAD) CONVERTING THE AT-GRADE INTERSECTION TO AN INTERCHANGE	4/23/2019	Division Design Raleigh Let (DDRL)	4/21/2020	4/18/2023	JOHN W. BRAXTON JR	\$53,500,000.00	\$32,000,000.00	Project is suspended due to cash balance shortfall.

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
December 2019

Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
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	Project is suspended due to cash balance shortfall.
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	CHRISTOPHER A. HOFFMAN		\$3,800,000.00	
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-5703	DURHAM - LASALLE STREET FROM KANGAROO DRIVE TO SPRUNT AVENUE IN DURHAM. CONSTRUCT SIDEWALKS ON BOTH SIDES FROM KANGAROO DRIVE TO US 70 BUSINESS (HILLSBOROUGH ROAD) AND ON ONE SIDE FROM HILLSBOROUGH ROAD TO SPRUNT AVENUE.	9/30/2019	NON - DOT LET (LAP)		5/31/2022	RAYMOND JOSEPH HAYES	\$515,000.00	\$1,440,000.00	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
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Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
EB-5708	NC 54 FROM NC 55 TO RESEARCH TRIANGLE PARK WESTERN LIMIT INDURHAM CONSTRUCT SECTIONS OF SIDEWALK ON SOUTH SIDE	9/30/2019	NON - DOT LET (LAP)		5/30/2022	RAYMOND JOSEPH HAYES	\$177,000.00	\$491,000.00	
W-5705AI	US 501 BUSINESS (ROXBORO STREET) AT SR 1443 (HORTON ROAD) /SR 1641 (DENFIELD STREET)	1/30/2021	Division POC Let (DPOC)		3/23/2022	STEPHEN REID DAVIDSON	\$210,000.00	\$630,000.00	Survey delayed until spring 2020 due to cash balance shortfall.
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	CHRISTOPHER A. HOFFMAN		\$4,541,000.00	
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	1/31/2020	NON - DOT LET (LAP)		1/21/2022	RAYMOND JOSEPH HAYES	\$829,000.00	\$2,680,000.00	
B-5674	REPLACE BRIDGE 80 OVER SR 1308 IN DURHAM ON US 15-501 NORTHBOUND	9/16/2020	Raleigh Letting (LET)		12/21/2021	KEVIN FISCHER	\$110,000.00	\$2,209,000.00	
U-4726HN	CONSTRUCT BIKE LANES/SIDEWALKS IN DURHAM - HILLDALE ROAD	4/30/2020	NON - DOT LET (LAP)		10/30/2021	RAYMOND JOSEPH HAYES			

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
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Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
C-4928	SR 1317 (MORRENE ROAD) FROM NEAL ROAD TO SR 1320 (ERWIN ROAD) IN DURHAM. CONSTRUCT BIKE LANES AND SIDEWALKS.	4/30/2020	NON - DOT LET (LAP)		9/30/2021	RAYMOND JOSEPH HAYES	\$7,000.00	\$5,783,000.00	
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	
U-4726HO	CARPENTER - FLETCHER ROAD BIKE - PED; CONSTRUCT BIKE LANES / SIDEWALKS (CITY MAINTAINED) FROM WOODCROFT PARKWAY (CITY MAINTAINED) TO ALSTON AVENUE (SR 1945).	3/31/2020	NON - DOT LET (LAP)		9/30/2021	RAYMOND JOSEPH HAYES			
U-5823	WOODCROFT PARKWAY EXTENSION. FROM SR 1116 (GARRETT ROAD) TONC 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	
EB-5704	DURHAM - RAYNOR STREET FROM NORTH MIAMI BOULEVARD TO NORTH HARDEE STREET	9/16/2019	NON - DOT LET (LAP)		6/30/2021	RAYMOND JOSEPH HAYES		\$510,000.00	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
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Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
EB-5837	THIRD FORK CREEK TRAIL FROM SOUTHERN BOUNDARIES PARK TO THEAMERICAN TOBACCO TRAIL IN DURHAM	6/30/2020	NON - DOT LET (LAP)		6/30/2021	RAYMOND JOSEPH HAYES	\$161,000.00	\$2,546,000.00	
P-5717	NORFOLK SOUTHER H LINE CROSSING 734742W AT SR 1121 (CORNWALLIS ROAD) IN DURHAM. CONSTRUCT GRADE SEPARATION.	12/12/2019	Raleigh Letting (LET)		6/15/2021	KUMAR TRIVEDI	\$4,378,000.00	\$16,100,000.00	
W-5705T	SR 1815 / SR 1917 (SOUTH MINERAL SPRINGS ROAD) AT SR 1815 (PLEASANT DRIVE)	4/1/2020	Division POC Let (DPOC)		4/21/2021	STEPHEN REID DAVIDSON	\$85,000.00	\$800,000.00	Project is suspended due to cash balance shortfall.
I-5993	I-40 - DURHAM COUNTY FROM US 15/US 501 TO EAST OF NC 147 (COMB W/I-5994).		Division Design Raleigh Let (DDRL)		1/19/2021	CHRISTOPHER A. HOFFMAN		\$17,700,000.00	
I-5994	I-40 - DURHAM COUNTY FROM US 15/US 501 TO EAST OF NC 147 (COMB W/I-5993).		Division Design Raleigh Let (DDRL)		1/19/2021	CHRISTOPHER A. HOFFMAN		\$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	CHRISTOPHER A. HOFFMAN		\$5,272,000.00	
W-5705AM	DURHAM TRAFFIC SIGNAL REVISIONS TO INSTALL "NO TURN ON RED"BLANK OUT SIGNS AT SIX LOCATIONS		Division POC Let (DPOC)		12/9/2020	CHRISTOPHER A. HOFFMAN		\$62,000.00	

DURHAM PROJECT LIST
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Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
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	Letting planned in spring 2020
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	
C-5605I	DURHAM NEIGHBORHOOD BIKE ROUTE:~7 MILES OF SIGNED AND MARKED NEIGHBORHOOD BIKE ROUTES IN CENTRAL DURHAM.		NON - DOT LET (LAP)		6/30/2020	RAYMOND JOSEPH HAYES		\$540,883.00	
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	
C-5183B	SR 1945 (S ALSTON AVENUE) FROM SR 1171 (RIDDLE ROAD) TO CAPPS STREET. CONSTRUCT SIDEWALKS IN DURHAM		NON - DOT LET (LAP)		3/30/2020	RAYMOND JOSEPH HAYES	\$99,000.00	\$706,000.00	
C-5605H	DOWNTOWN DURHAM WAYFINDING PROGRAM SIGNS/KIOSKS TO FACILITATE NAVIGATION AND PARKING.		NON - DOT LET (LAP)		12/31/2019	RAYMOND JOSEPH HAYES		\$605,000.00	

DURHAM PROJECT LIST
NCDOT DIVISION 5 FIVE-YEAR PROGRAM
December 2019

Project ID	Description	R/W Acq Begins	Let Type	P Let Date	Let Date	Project Manager	ROW \$	CONST \$	COMMENTS
W-5601EM	SR 1118 (FAYETTEVILLE ROAD) AT PILOT STREET AND CECIL STREET IN DURHAM		Division POC Let (DPOC)		12/4/2019	JOHN EDWARD SANDOR		\$14,000.00	Deleting project, will be absorbed by U-5968
W-5705M	I-40 WESTBOUND AT NC 147 SAFETY IMPROVEMENTS (MP: 9.359 - 9.359)		Division POC Let (DPOC)		10/2/2019	JOHN EDWARD SANDOR		\$80,000.00	Deleting project, will be absorbed by U-5968
C-5605E	DURHAM BIKE LANE STRIPING		NON - DOT LET (LAP)		9/30/2019	RAYMOND JOSEPH HAYES		\$504,000.00	
W-5705U	US 70 BUSINESS (MORGAN STREET) AT CAROLINA THREATRE		Division POC Let (DPOC)		9/4/2019	JOHN EDWARD SANDOR		\$20,000.00	
W-5705V	NC 54 AT HUNTINGRIDGE ROAD		Division POC Let (DPOC)		9/4/2019	JOHN EDWARD SANDOR		\$80,000.00	

NCDOT DIV 7 PROJECTS LOCATED IN DCHCMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
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	11/1/2019	\$350,000	Construction - 100% complete, Pending RTE final inspection	Chris Smitherman Derek Dixon
SM-5707H 48912.3.1	"To Pass Bicycles, 4 ft Min Clearance or Change Lane" sign installations on portions of no passing zones on SR 1107 (Hillsborough Road) and SR 1104 (Dairyland Road).	May. 2020	Jun. 2020	\$5,000	Signs installed 10/17/19 - 100% complete, Pending RTE final inspection	Dawn Mcpherson
SS-6007C 48888.1.1 48888.3.1	Guardrail installation on NC 86 just north of SR 1839 (Alexander Drive).	Jul. 2020	Aug.2020	\$50,400	Funds approved 9/5/19 but not released	Chad Reimakoski Derek Dixon
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.	Jun. 2021	Nov. 2021	\$261,000	Planning and design activities underway	Chad Reimakoski
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 - Executive Hold , Coordinate with U-5848	Matthew Simmons
I-3306AC 34178.1.6 34178.2.5 34178.3.9	Interchange improvements at I-40 and NC86 in Chapel Hill	10/19/2021	FY2023	\$20,700,000	Planning and Design activities underway - Executive Hold , Environmental document completed 3/21/19 under I-3306A	Laura Sutton
I-3306AB 34178.1.5 34178.2.4 34178.3.8	I-40 widening from NC86 to Durham Co. line (US 15/501 Interchange). Includes a portion of interchange improvements I-3306AC in Chapel Hill	3/15/2022	FY2024	\$38,635,000	Planning and design activities underway, Environmental document completed 3/21/19 under I-3306A, Project combined with W-5707C	Laura Sutton
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 in Chapel Hill . Resurfacing I-40 WB by use of contingency funds	3/15/2022	FY2022	\$395,000	No bids on most recent letting, Project combined with I-3306AB	Chad Reimakoski

NCDOT DIV 7 PROJECTS LOCATED IN DCHCMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
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	\$5,326,000	Planning and design activities underway - Executive Hold , coordinating with NC54 West Corridor Study	Chris Smitherman
I-3306AA 34178.1.4 34178.2.3 34178.3.7	I-40 widening from I-85 to NC86 in Chapel Hill	10/18/2022	FY2025	\$76,265,000	Planning and Design activities underway, Environmental document completed 3/21/19 under I-3306A	Laura Sutton
I-5958 45910.1.1 45910.3.1	Pavement Rehabilitation on I-40/I-85 from West of SR 1114 (Buckhorn Road) to West of SR 1006 (Orange Grove Road)	11/21/2023	FY2025	\$7,455,000	Funding approved 10/10/17 - Executive Hold	Chris Smitherman
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	7/16/2024	FY 2027	\$49,751,000	Planning and Design activities underway - Executive Hold , Coordinate with U-5848 and I-5967	Laura Sutton
I-5967 45917.1.1 45917.2.1 45917.3.1	Interchange improvements at I-85 and SR 1009 (South Churton Street) in Hillsborough	10/15/2024	FY2027	\$20,700,000	Planning and Design activities underway - Executive Hold , Coordinate with I-0305 and U-5845	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	11/19/2024	FY2026	\$11,155,000	Funding approved 10/10/17 - Executive Hold , Coordinate with I-5967, I-5984 and I-0305	Chris Smitherman
I-5984 47530.1.1 47530.2.1 47530.3.1	Interchange improvements at I-85 and NC 86 in Hillsborough	11/18/2025	FY2027	\$16,488,000	Planning and Design activities underway - Executive Hold , Coordinate with I-0305 and I-5959	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.	1/19/2027	FY2029	\$133,400,000	Planning and design activities underway - Executive Hold , Project reinstated per 2020-2029 STIP (funded project) and delete project I-5983	Laura Sutton

Executive Hold - NCDOT has temporary suspended some projects due to budget/cash flow restrictions.

North Carolina Department of Transportation

12/4/2019

Active Projects Under Construction - Orange Co.

Contract Number	TIP Number	Location Description	Contractor Name	Resident Engineer	Contract Bid Amount	Availability Date	Completion Date	Work Start Date	Estimated Completion Date	Progress Schedule Percent	Completion Percent
C202581	EB-4707A	IMPROVEMENTS ON SR-1838/SR-2220 FROM US-15/501 IN ORANGE COUNTY TO SR-1113 IN DURHAM COUNTY.	S T WOOTEN CORPORATION	Nordan, PE, James M	\$4,614,460.00	5/28/2019	2/15/2021	5/28/2019	2/15/2021	0	0.67
C203946	B-5348	REPLACE BRIDGE #85 OVER PHIL'S CREEK ON SR-1005 (OLD GREENSBORO ROAD).	DANE CONSTRUCTION INC	Howell, Bobby J	\$984,596.98	2/1/2018	12/27/2018	2/1/2018	1/30/2019	99	92.33
C204025	I-5954	PAVEMENT REHAB. ON I-40/I-85 FROM EAST OF NC-54 IN GRAHAM IN ALAMANCE COUNTY TO WEST OF SR-1114 (BUCKHORN RD) IN ORANGE COUNTY.	APAC - ATLANTIC INC THOMPSON ARTHUR DIVISION	Howell, Bobby J	\$9,699,053.68	4/1/2018	6/29/2019	4/29/2019	10/11/2019	100	95.11
C204078	B-4962	REPLACE BRIDGE #46 OVER ENO RIVER ON US-70 BYPASS.	CONTI ENTERPRISES, INC	Howell, Bobby J	\$4,863,757.00	5/28/2019	12/28/2021	6/19/2019	12/28/2021	5.65	7.67
DG00393		RESURFACE FOLLOWING SR'S: 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	Howell, Bobby J	\$1,084,520.40	4/2/2018	10/12/2018	6/18/2018	12/7/2018	100	99.97
DG00419		RESURFACE NC 86 AND 17 SECONDARY ROADS	CAROLINA SUNROCK LLC	Howell, Bobby J	\$3,764,001.64	5/14/2018	11/1/2019	5/14/2018	11/1/2019	72	99.87
DG00435		AST RETREATMENT ON 22 SECONDARY ROADS	WHITEHURST PAVING CO INC	Howell, Bobby J	\$846,340.66	4/1/2019	10/11/2019				
DG00445	R-5787BB W-5707A	INSTALLATION OF ADA COMPLIANT CURB RAMPS AT VARIOUS INTERSECTIONS	LITTLE MOUNTAIN BUILDERS OF CATAWBA COUNTY INC	Howell, Bobby J	\$319,319.80	6/25/2018	2/15/2020	8/6/2018	2/15/2020	100	92.94
DG00451	U-5854	SR 1008 (MT. CARMEL CHURCH ROAD) AND SR 1913 (BENNETT ROAD) ROUNDABOUT AND RELATED SAFETY IMPROVEMENTS	CAROLINA SUNROCK LLC	Howell, Bobby J	\$1,833,468.84	8/15/2018	4/30/2020	2/13/2019	11/30/2020	22	57.09
DG00461		REHAB. BRIDGE #031 ON SR 1010 (E. FRANKLIN ST.) OVER BOLIN CREEK & BOLIN CREEK TRAIL	M & J CONSTRUCTION CO OF PINELLAS COUNTY INC	Howell, Bobby J	\$2,456,272.12	11/12/2018	7/15/2019	3/15/2019	10/15/2019	100	33.77
DG00462		REHAB. BRIDGES 264, 288, 260, 543 IN GUILFORD COUNTY AND BRIDGE 031 IN ORANGE COUNTY	ELITE INDUSTRIAL PAINTING INC	Snell, PE, William H	\$967,383.15	8/1/2019	1/1/2020				
DG00478		RESURFACE PORTIONS OF 41 SECONDARY ROADS IN ORANGE COUNTY	CAROLINA SUNROCK LLC	Howell, Bobby J	\$3,270,144.99	7/8/2019	10/30/2020				
DG00485	U-5846	SR 1772 (GREENSBORO STREET) AT SR 1780 (ESTES DRIVE), CONSTRUCT ROUNDABOUT	FSC II LLC DBA FRED SMITH COMPANY	Howell, Bobby J	\$3,375,611.30	5/28/2019	3/1/2022		4/26/2022	3	2.82

Chatham County - DCHC MPO - Upcoming Projects - Division 8--January 2020								
Contract # or WBS # or TIP #	Route	Description	Let Date	Completion Date	Contractor	Project Admin.	STIP Project Cost	Notes
U-6192	US 15-501	Add Reduced Conflict Intersections - from US 64 Pitts. Byp to SR 1919 (Smith Level Road) Orange Co.	FY 2027	TBD	TBD	Greg Davis (910) 773-8022	\$45,640,000	Right of Way FY 2025
R-5825	NC 751 at SR 1731 (O'Kelly Chapel Road)	Upgrade and Realign Intersection	11/1/2020	TBD	TBD	Greg Davis (910) 773-8022	\$759,000	