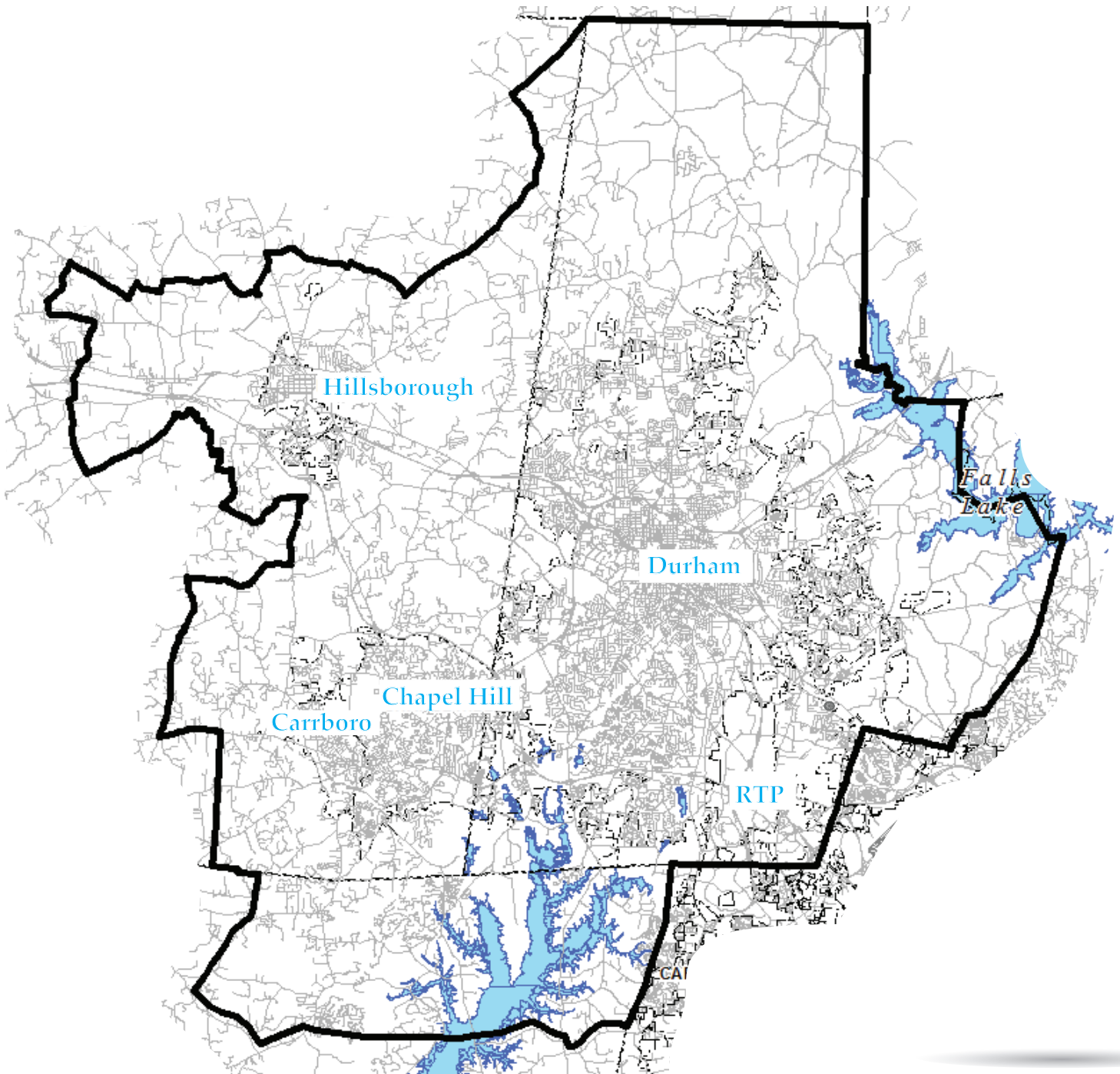


DCHC- MPO

Durham-Chapel Hill-Carrboro
Metropolitan Planning Organization

Unified Planning Work Program

FY 2017 DRAFT 12.16.15



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Durham-Chapel Hill-Carrboro (DCHC)
Metropolitan Planning Organization (MPO)

RESOLUTION (FTA and FHWA)

Approving the FY 2017 Unified Planning Work
Program of the DCHC Urban Area MPO

February 10, 2016

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 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 FY 2017.

Now therefore, be it resolved that the MPO Board hereby endorses the *FY 2017 Unified Planning Work Program for the DCHC MPO Urban Area.*

I, Stephen N. Schewel, Chair of the DCHC 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 _____, 2016.

Stephen N. Schewel, MPO Board Chair

Durham County, North Carolina

I certify that Stephen N. Schewel personally appeared before me this day acknowledging to me that he signed the forgoing document.

Date: _____, 2016

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

**RESOLUTION CONFIRMING TRANSPORTATION PLANNING
PROCESS**

**RESOLUTION CERTIFYING THE DURHAM-CHAPEL HILL-CARRBORO
(DCHC MPO) METROPOLITAN PLANNING ORGANIZATION'S
TRANSPORTATION PLANNING PROCESS FOR FY 2016-2017 (FY 2017)**

WHEREAS, the MPO Board has found that the Metropolitan Planning Organization 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 (Section 1003(b) of ISTEA of 1991 (Pub. L. 102-240), 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 2016-2025 Metropolitan Transportation Improvement Program is a subset of the currently conforming 2040 Metropolitan Transportation Plan (MTP);

WHEREAS, the Transportation Plan has a planning horizon year of 2040, and meets all the requirements for an adequate Transportation Plan,

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 ____, 2016

Stephen N. Schewel,
Board Chair

Clerk/Secretary/Planner

Metropolitan Planning Self-Certification Process

CFR 450.334

The State and the MPO shall annual certify to the FHWA and the 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 MPOs as they review their processes and programs for self-certification.

Self-Certification Checklist

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 official/representatives of Durham City, Durham County, 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 (UPWP)? 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 LRTP. 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 LRTP. Yes
 - c. Did the LRTP have at least a 20-year horizon at the time of adoption. Yes
 - d. Does it address the 8-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 LRTP. 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 LRTP. 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 discussions in the planning process?

- a. How? Through period 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 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 (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 of 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)
 - 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 the public given an opportunity to provide oral and/or written comments on the planning process? Yes.
 - f. Is the PIP periodically reviewed and updated to ensure its effectiveness? Yes.
 - g. Are plans/program 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? MAP-21 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 -DCHCMPO (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.

Stephen N. Schewel
MPO Board Chair

Date

Felix Nwoko, PhD.
DCHC MPO Administrator/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. 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 supplemental project descriptions for special projects and Federal Transit Administration (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 (a subset of the funding source table) 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. Statewide Planning and Research Funds (SPR) are designated for State use only and reflect the amount of those funds to be expended by the N. C. Department of Transportation, Transportation Planning Branch on DCHC MPO activities. 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 STP-DA funds flexed to 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 the Regional Freight Plan, data collection geo-database enterprise update, regional model update and enhancement, travel behavior surveys and onboard transit survey, etc.

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

Proposed FY 2017 UPWP Activities and Emphasis Areas

MPO activities and emphasis areas for the FY17 UPWP are summarized as follow:

- Development of the 2045 Metropolitan Transportation Plan (MTP)
- Development of the 2018-27 MTIP
- Continue to implement MAP-21 Metropolitan Planning requirements
- Continuation of routine planning- TIP, UPWP, Data monitoring, GIS, Public Involvement, AQ, etc.
- Continuation of special and mandated projects/programs: Title VI, LEP, EJ, safety/freight, modeling, TRM V6, land-use, Geocoder, integration of Community Viz with UrbanSim, CMP, transit, CTP, Asset Management Plan for all modes (required for all transit agencies), etc.
- 2016 Estimation Year data collection, inventory, analysis and tabulation for the TRM V7 (to be aligned and streamlined with CMP Data collection efforts)

- Development of 2045 MTP alternative analysis, preferred options, responses to the Planning Factors, final plan, etc.
- Preparation of 2016 Base year data collection/inventory and travel survey for the major model update (TRM Version7)
- Major surveys (household, parking, transit onboard, cordon, etc.) for TRM version 7
- Regional transit and implementation of County transit plans
- Congestion Management Process CMP- State of the System Report
- MPO-wide Mobility Report Card update
- Continuation of the Regional Freight Plan development
- Continuation of the MPO website update, enhancement and application (portals) development
- Continuation of Community Viz 3.0 scenario planning update
- Update and enhancement of the MPO geo-database enterprise
- Other 3-C planning process activities

Metropolitan Planning Factors & Federal Requirements

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

- Supports the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity and efficiency.
- Increases the safety and security of the transportation system for motorized and non-motorized users.
- Increases the accessibility and mobility options available to people and for freight.
- Protects and enhances the environment, promotes energy conservation, improves quality of life, and promotes consistency between transportation improvements and state and local planned growth and economic development patterns.
- Enhances the integration and connectivity of the transportation system, across and between modes, for people and freight.
- Promotes efficient system management and operation.
- Emphasizes the preservation of the existing transportation system.

Each of these factors is addressed through various work program tasks selected for FY 2017.

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. In addition, MAP-21 places significant emphasis 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 DCHC 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 (US DOT) Federal Highway Administration (FHWA) and Federal Transit Administration (FTA), North Carolina Department of Environment, Natural Resource (NC DENR) and the U.S. Environmental Protection Agency (US EPA) provide guidance and participate in the planning process. The Metropolitan Transportation Plan (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 the 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 DCHCMPO is responsible for developing a Transportation Improvement Program (TIP) for a seven-year time horizon in cooperation with the State, MPO member agencies and with local transit operators. The TIP 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 metropolitan area. The metropolitan Transportation Improvement Program (TIP) must include the following:

- A priority list of proposed federally supported projects and strategies to be carried out within the 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

Designated Transportation Management Areas (TMAs), such as the DCHC MPO, based on urbanized area population over 200,000 must also address the following: Transportation 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 (CMP) must be developed and implemented that provides for effective management and operation, based on a cooperatively developed and implemented metropolitan-wide 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 a maintenance area for air quality and as such is required to undertake air quality analysis and conformity determination/findings on its MTP and TIP. The NCDOT would assist the MPO in making a conformity determination by performing a systems level conformity analysis on the highway portion of the fiscally constrained Metropolitan Transportation Plan (MTP). The Metropolitan Transportation Improvement Program is a subset of the Transportation Plan and is therefore covered by the conformity analysis.

FY 2017 Emphasis Areas and Special Projects Descriptions

Special emphasis projects and new initiatives for the FY16-17 UPWP are described below.

Triangle Regional Model (TRM) - Major Model Enhancement

Upon completion of the TRM-V6, the Triangle Regional Model Service Bureau (TRM-SB) and the regional model stakeholders will commence a substantial revisions and enhancements in order to better respond to the evolving needs and policies of the DCHC MPO and other model stakeholders. One of the first tasks will be to identify and select model enhancements for implementation based on the needs of the various partners, which include local governments, and, on the feasibility and costs of desired enhancements. Enhancements specifically discussed 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, and 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 will not be included in the regional model plan, such as the enhancement of the non-motorized trip. In that case, additional specific activities may include developing extensions to the regional model to meet DCHC's remaining policy needs.

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. 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 4,000 households across the Triangle. The sample size for the DCHC 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 also includes a separate transit on-board survey (survey of bus riders) and surveys of bicycle and pedestrian activity and facilities. The benefit to the MPO will be a more accurate and reliable travel demand model that represents and captures local travel behavior and travel patterns.

Community Viz 3.0

The DCHC MPO in concert with CAMPO will continue to undertake the update and enhancement of 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 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 Long Range Transportation Plan; the 2045 Metropolitan Transportation plan.

During FY 2015, the DCHC MPO and CAMPO joined together to update the first Community Viz 2.0 scenario planning initiative called. That tool provided a platform for a 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 socio-economic forecasts.

FY 2017 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 the FY 2017 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;
- Travel time and speed survey; and
- Pedestrian and bicycle counts at mid-block and intersections (peak counts and 12-hour counts).

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. Maps of the proposed 2016 data collection locations are illustrated in accompanying appendices.

Freight Planning/Urban Good Movement – Regional Freight Plan

Work will continue on the development of the regional freight plan as mandated by federal regulations. The freight plan is jointly funded by CAMPO, DCHC MPO and the NCDOT. This partnership recognizes the importance and need for these agencies to jointly address freight issues in the region. The purpose of the plan is threefold:

- To conduct a comprehensive regional study of freight, goods movement, and services mobility needs;
- To develop a framework to proactively address freight and goods movement mobility needs and challenges in our region; and
- To examine all modes of a freight transportation system with emphasis on trucks, rail and air cargo and to develop freight recommendations for the 2045 joint Metropolitan Transportation Plan.

The freight plan will guide freight investments in a manner that supports the region's goals for safety, social equity, economic productivity, sustainability, and livable communities.

American's with Disability Act (ADA) Transition Plan

The ADA Law requires public agencies with more than 50 employees to make a transition plan [28 CFR §35.150(d)]. The transition plan must include a schedule for providing access features, including curb ramps for walkways [28 CFR §35.150(d)(2)]. The ADA transition plan is intended to identify system needs and integrate them with the MPOs planning process. The transition plan and its identified needs will be fully integrated into the Metropolitan Transportation Improvement Program (MTIP). The MPO will continue to update the Transition Plan and programmatic assessment

FY 2017 UPWP Funding Sources

FY 2016-17 UPWP funding levels as well as the descriptions of funding sources is summarized below.

Planning (PL) Section 104(f) – These funds are Federal Highway Administration (FHWA) funds for urbanized areas, administered by NCDOT. These funds require a 20% match. The PL funding apportionment to the state is distributed to the MPOs through a population-based formula. The proposed Section 104(f) funding level is based on the MAP-21 Section 104(f) allocation. The statewide section 104(f) funds are distributed among all MPOs based on a formula. The DCHC MPO PL fund allocation for FY 2016-17 has not been determined due to non-authorization of federal transportation bill. The PL funds proposed for FY 2017, shown below, is last fiscal year's allocation plus a portion of unobligated funds.

	MPO Total
Federal PL funds (80%)	\$ 300,000
Local match (20%)	\$ 75,000
Total PL Funds	\$ 375,000

STP-DA – These funds are the Direct Attributable allocation portion of the federal Surface Transportation Program (STP) funds provided to Transportation Management Areas (TMAs) over 200,000 in population through FHWA. By agreement with the DCHC MPO and NCDOT, a portion of these funds are used for MPO transportation planning activities. STP-DA funds proposed to be flexed in the FY 2016-17 UPWP are shown below:

	MPO Total
Federal STP-DA funds (80%)	\$1,642,986
Local match (20%)	\$410,746
Total STP-DA Funds	\$2,053,732

FTA Funds -Two types of funds are used for transit planning purposes by the DCHC MPO; Section 5303 and Section 5307 funds administered through the Federal Transit Administration (FTA) and the NCDOT Public Transit Division.

Section 5303 funds are grant monies from FTA that provide assistance to urbanized areas for transit planning. Essentially, the funds are earmarked for use in planning and technical studies related to urban public transportation. They are provided from the FTA through the NCDOT-PTD to the MPO transit operators (80% from FTA, 10% from NCDOT-PTD, and 10% local match).

5303	CHT	GoDurham	MPO Total
Federal (80%)	\$137,200	\$142,800	\$280,000
State (10%)	\$17,150	\$17,850	\$35,000
Local (10%)	\$17,150	\$17,850	\$35,000
Total Sect. 5303	\$171,500	\$178,500	\$350,000

Section 5307 funds can be used for planning as well as other purposes, and are distributed by formula by FTA. The GoDurham, CHT, and GoTriangle (previously known as TTA) use Section 5307 funds from the FTA for assistance on a wide range of planning activities. These funds require a 10% local match, which is provided by the City of Durham, the Town of Chapel Hill, and GoTriangle; and 10% State match which is provided by the Public Transportation Division of NCDOT.

5307	GoDurham	GoTriangle	MPO Total
Federal (80%)	\$226,261	\$684,000	\$910,261
State (10%)	\$28,282	\$85,500	\$113,782
Local (10%)	\$28,283	\$85,500	\$113,783
Total Sect. 5307	\$282,826	\$855,000	\$1,137,826

Summary of all Funding Sources

	Federal	State	Local	Total
PL/STP-DA (FHWA)	\$1,942,986		\$485,746	\$2,428,732
FTA 5303	\$280,000	\$35,000	\$35,000	\$350,000
FTA 5307	\$910,260	\$113,783	\$113,783	\$1,137,826
Total	\$3,133,246	\$148,783	\$634,529	\$3,916,558

Summary of Federal Funding (80%) by Agency

	FHWA	FTA Transit Planning		
Agency	Planning	5303	5307	Total
Lead Planning Agency	\$1,489,520			\$1,489,520
Carrboro	\$26,941			\$26,941
Chapel Hill	\$115,200	\$137,200		\$252,400
Durham City	\$82,800			\$82,800
Durham County	\$43,042			\$43,042
Hillsborough	\$95,842			\$95,842
Orange County	\$34,640			\$34,640
TJCOG	\$55,000			\$55,000
GoDurham		\$142,800	\$226,260	\$369,060
GoTriangle			\$684,000	\$684,000
Total	\$1,942,986	\$280,000	\$910,260	\$3,133,246

In addition to the routine funding described above, GoTriangle has received a Transit-Oriented Development (TOD) Planning Pilot Program Grant from FTA. Such grants provide funding to advance planning efforts that support TOD associated with new fixed-guideway and core capacity improvement projects.

TOD Planning Pilot Program Grant	FTA	Local (multiple jurisdictions)	Total
GoTriangle	\$1,691,615	\$533,385	\$2,225,000

LPA Local Match Cost Sharing

To receive the aforementioned federal funds, 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 FY 2017. 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 STP-DA.

Agency	Total FY 2017
Durham City	\$189,816
Durham County	\$41,693
Chapel Hill	\$53,490
Carrboro	\$21,154
Hillsborough	\$8,429
Orange County	\$26,147
Chatham County	\$11,401
GoTriangle	\$20,250
Total	\$372,380

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 FY 2015 and First Quarter FY 2016 UPWP Accomplishments

The Main emphases of the FY 2015 and first quarter of FY 2016 Unified Planning Work Program (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, 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 Planning, State and Regional Coordination, collaboration on the regional transit activities and Orange and Durham county transit plans initiatives. The MPO continued to fulfill State and Federal transportation mandates and requirements, mainly the 3-C transportation process, such as UPWP planning, SPOT3/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:

The accomplishments for the FY 2015 and first quarter FY 2016 UPWP are summarized as follows:

1. **MPO Congestion Management Process (CMP):** The MPO completed analyses and mapping associated with the development of the federally required CMP. Tasks accomplished include summarization and analysis of data, data analysis, measurement of multi-modal transportation system performance, and identification of causes of congestions, evaluation of strategies and preparation of draft report.
2. **MPO Mobility Report Card (MRC):** Staff continues to measure and monitor multi-modal transportation system performance. Other accomplishments include a draft state-of-the-system report that focus on measures of system performance for which data collected on annual basis is used to index overall performance of the MPO transportation system from year to year. Data report included, arterial LOS, intersection LOS, Transit services, bicycle facilities, sidewalks, safety, etc.
3. **MPO ADA Transition Plan:** Continued to oversee the development of the DCHC MPO ADA Transition Plan, specifically;
 - Identifying all jurisdictions in the DCHC MPO metropolitan area with 50 or more employees.
 - Identification of ADA point person for each jurisdiction. Each jurisdiction must appoint an ADA Coordinator.
 - Developing (in coordination with MPO jurisdictions) a traffic and pedestrian generator map to be used in the development of Sidewalk and Curb Inventory.
 - Conducting (from jurisdictions where they exit) an inventory assessment methodology for ranking ADA System inventory priorities.
 - Preparation of draft report.
4. **Federal Certification Review:** Prepared responses and answers to the federal review desk review questionnaires and coordinating the certification process, including leading the MPO team in the review process.
5. **Regional Freight Plan:** Staff continued to serve as the project manager (PM) for the development of the Triangle Regional Freight Plan. Work tasks accomplished included but not limited to:
 - Preparation and execution of consultant's contract and municipal agreement between Durham, Raleigh and NCDOT.
 - Update of project scope schedule, deliverable and milestones.
 - Development of data needs
 - Coordination of the formation of the Freight Stakeholder Advisory Committee
 - Initiated the formation of the project steering committee.
 - Budget and accounting setup for the project.
 - Logistical issues and continued to oversee consultant's services.
6. **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 DCHCMPO Public Involvement Process and to develop and enhance the process of regional involvement supporting the objectives of the DCHCMPO public Involvement Policy (PIP) and application federal regulations (such MAP-21). Staff continued to explore, 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 development of portals, update of CivicaSoft website system application and update of content management systems. Provided

- leadership and 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.
7. Safety Analysis and Draft Report: The MPO completed analyses related to bike and pedestrian safety, transit safety and vehicular safety. Other safety related accomplishments include participating on the North Carolina Safety education initiatives and regional bike and pedestrian safety programs.
 8. Environmental Justice. The MPO Board approved the MPO Environmental Justice report and made necessary updates to reflect comments and finalized the report..
 9. Climate Change Adaption: The MPO continues to participate with federal, State and regional climate change initiatives, including the participation on the Energy Team and providing technical and modeling support for the regional Climate Leadership initiative.
 10. Metropolitan Transportation Improvement Program (MTIP): The MPO continue to work on TIP related activities such as prioritization, review of the Local Supplement of the STIP and the development of the draft Metropolitan Transportation Program (MTIP).
 11. Amendments and Administrative Modifications to the MTIP: The MPO processed several amendments and administrative modifications to the 2012-18 MTIP and forwarded to NCDOT to be included in the STIP for BOT approval.
 12. Triangle Regional Model (TRM) Update and Enhancement: The MPO continues 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 2010 Estimation Year TRM-V6. The MPO is one of the funding partners of the modeling service bureau and continues to provide .5 FTE to ITRE Model Service Bureau..
 13. Bicycle lane restriping. The MPO worked with NCDOT Division 5 and Division 7 regarding priorities and plans for restriping roadways scheduled for resurfacing by NCDOT
 14. Other Project Development Planning and NEPA: the LPA continued to participate on several on-going NCDOT project planning and NEPA for projects within the MPO. These projects are summarized as follows; I-40 Managed Lanes feasibility studies, 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.
 15. ITS Strategic Deployment Plan (SDP). Work continues on the implementation of the Triangle Regional ITS SDP. This included linkages of ITP to travel model.
 16. Oversight, Monitoring and Administration of Transit Grants: The MPO continues process invoices for sub-recipients reimbursements as well continue to administer and monitor transit grants.
 17. Service Requests: Staff performed numerous services requests from the public and member agencies.
 18. Management and Operations: Staff continued routine tasks and work elements that encompass the administration and support of the DCHC MPO (3-C transportation planning process) as mandated and required by federal regulations. Specifically, tasks included but were not limited to:

- Provided liaisons between DCHC MPO member agencies, transit providers, GoTriangle, CAMPO, NCDOT, DENR, 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 Triangle Region.
 - Reviewed and comment on federal and state transportation-related plans, programs, regulations and guidelines, including review of MAP-21 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 meeting preparation, agenda and minutes preparation and follow-ups to directives to staff, support of the agenda management system.
 - Updated and provided support for MPO planning documents as required.
 - Administration and oversight of contracts and fiscal management
19. Assisted with the compliance of federal and state regulations and mandates
20. Performed various supervisory duties/functions

Development Schedule

The proposed development schedule for the FY 2016-2017 UPWP is presented 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 2015-December 2015	Development of draft FY2017 UPWP and coordination with the Oversight Committee and local agencies.
November 6, 2015	Deadline for funding request and supplemental documents to be submitted to MPO by member agencies.
December 16, 2015	TC reviews draft FY2017 UPWP and recommends Board release for public comment.
January 13, 2016	MPO Board reviews draft of FY2017 UPWP and releases draft for public comment.
January 27, 2016	TC receives draft of FY2017 UPWP and recommends Board hold public hearing and approve draft at February Board meeting.
January 31, 2016	Draft FY2017 UPWP submitted to NCDOT/PTD
February 10, 2016	MPO Board holds public hearing and approves draft FY2017 UPWP including approval of self-certification process and local match.
March 31, 2016	Deadline for final FY2017 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	STP-DA Sec. 133(b)(3)(7)		Section 104(f) PL		Section 5303 Highway/Transit			Section 5307 Transit			Funding Summary			
	Local	FHWA	Local	FHWA	Local	NCDOT	FTA	Local	NCDOT	FTA	Local	NCDOT	Federal	Total
	20%	80%	20%	80%	10%	10%	80%	10%	10%	80%				
LPA	\$297,380	\$1,189,520	\$75,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$372,380	\$0	\$1,489,520	\$1,861,900
Carrboro	\$6,735	\$26,941	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,735	\$0	\$26,941	\$33,676
Chapel Hill/CHT	\$28,800	\$115,200	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$45,950	\$17,150	\$252,400	\$315,500
Chatham County	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Durham/DATA	\$20,700	\$82,800	\$0	\$0	\$17,850	\$17,850	\$142,800	\$28,283	\$28,283	\$226,261	\$66,833	\$46,133	\$451,861	\$564,826
Durham County	\$10,761	\$43,042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,761	\$0	\$43,042	\$53,803
Hillsborough	\$23,961	\$95,842	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,961	\$0	\$95,842	\$119,803
Orange County	\$8,660	\$34,640	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,660	\$0	\$34,640	\$43,300
TJCOG	\$13,750	\$55,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,750	\$0	\$55,000	\$68,750
GoTriangle	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85,500	\$85,500	\$684,000	\$85,500	\$85,500	\$684,000	\$855,000
NCDOT	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals	\$410,746	\$1,642,986	\$75,000	\$300,000	\$35,000	\$35,000	\$280,000	\$113,783	\$113,783	\$910,261	\$634,529	\$148,783	\$3,133,246	\$3,916,558

In addition to the table above, GoTriangle has been awarded a Transit-Oriented Development Planning Pilot Program Grant as indicated in table below.

Receiving Agency	Transit-Oriented Development Planning Pilot Program Section 20005(b)		
	Local	FTA	Total
	24%	76%	100%
GoTriangle	\$533,385	\$1,691,615	\$2,225,000

MPO Wide - Detail Funding Tables - All Funding Sources

	Task Description	STP-DA 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	30,149	120,595	240	960	0	0	0	0	0	0	30,389	-	121,555	151,944
	2 Vehicle Miles of Travel	800	3,200	400	1,600	0	0	0	0	0	0	1,200	-	4,800	6,000
	3 Street System Changes	1,242	4,969	1,120	4,480	0	0	0	0	0	0	2,362	-	9,449	11,811
	4 Traffic Accidents	2,000	8,000	1,080	4,320	0	0	0	0	0	0	3,080	-	12,320	15,400
	5 Transit System Data	2,260	9,039	1,200	4,800	8,347	8,347	66,775	5,401	5,401	43,210	17,208	13,748	123,824	154,780
	6 Dwelling Unit, Pop. & Emp. Change	10,404	41,615	5,000	20,000	0	0	0	0	0	0	15,404	-	61,615	77,019
	7 Air Travel	400	1,600	100	400	0	0	0	0	0	0	500	-	2,000	2,500
	8 Vehicle Occupancy Rates	0	0	0	0	0	0	0	0	0	0	-	-	-	-
	9 Travel Time Studies	8,400	33,600	1,800	7,200	0	0	0	0	0	0	10,200	-	40,800	51,000
	10 Mapping	11,933	47,730	4,800	19,200	3,422	3,422	27,378	0	0	0	20,155	3,422	94,309	117,886
	11 Central Area Parking Inventory	1,926	7,706	400	1,600	0	0	0	0	0	0	2,326	-	9,306	11,632
	12 Bike & Ped. Facilities Inventory	5,809	23,235	1,000	4,000	0	0	0	0	0	0	6,809	-	27,235	34,044
	13 Bike & Ped. Counts	11,186	44,744	1,000	4,000	0	0	0	0	0	0	12,186	-	48,744	60,930
II-B	Long Range Transp. Plan														
	1 Collection of Base Year Data	3,121	12,486	0	0	0	0	0	0	0	0	3,121	-	12,486	15,607
	2 Collection of Network Data	4,700	18,800	800	3,200	0	0	0	0	0	0	5,500	-	22,000	27,500
	3 Travel Model Updates	59,260	237,040	1,932	7,728	0	0	0	0	0	0	61,192	-	244,768	305,960
	4 Travel Surveys	300	1,200	0	0	0	0	0	0	0	0	300	-	1,200	1,500
	5 Forecast of Data to Horizon year	6,804	27,216	240	960	0	0	0	0	0	0	7,044	-	28,176	35,220
	6 Community Goals & Objectives	2,366	9,464	1,330	5,320	0	0	0	0	0	0	3,696	-	14,784	18,480
	7 Forecast of Future Travel Patterns	11,000	44,000	1,100	4,400	0	0	0	0	0	0	12,100	-	48,400	60,500
	8 Capacity Deficiency Analysis	5,360	21,440	2,400	9,600	0	0	0	0	0	0	7,760	-	31,040	38,800
	9 Highway Element of the L RTP	14,007	56,028	3,800	15,200	722	722	5,775	0	0	0	18,529	722	77,003	96,254
	10 Transit Element of the L RTP	14,814	59,257	3,800	15,200	1,048	1,048	8,385	483	483	3,862	20,145	1,531	86,704	108,380
	11 Bicycle & Ped. Element of the L RTP	20,454	81,817	3,200	12,800	1,002	1,002	8,017	0	0	0	24,656	1,002	102,634	128,292
	12 Airport/Air Travel Element of L RTP	1,120	4,480	200	800	0	0	0	0	0	0	1,320	-	5,280	6,600
	13 Collector Street Element of L RTP	1,794	7,176	600	2,400	0	0	0	0	0	0	2,394	-	9,576	11,970
	14 Rail, Water or other mode of L RTP	1,600	6,400	0	0	0	0	0	0	0	0	1,600	-	6,400	8,000
	15 Freight Movement/Mobility Planning	3,000	12,000	200	800	0	0	0	0	0	0	3,200	-	12,800	16,000
	16 Financial Planning	2,879	11,514	480	1,920	2,096	2,096	16,771	7,930	7,930	63,439	13,385	10,026	93,645	117,056
	17 Congestion Management Strategies	15,043	60,174	2,252	9,008	1,055	1,055	8,439	0	0	0	18,350	1,055	77,621	97,026
	18 Air Qual. Planning/Conformity Anal.	1,360	5,440	1,600	6,400	0	0	0	0	0	0	2,960	-	11,840	14,800
II-C	Short Range Transit Planning														
	Short Range Transit Planning	756	3,024	0	0	3,472	3,472	27,777	10,058	10,058	80,462	14,286	13,530	111,263	139,079
III-A	Planning Work Program														
	Planning Work Program	9,100	36,402	4,000	16,000	444	444	3,553	0	0	0	13,545	444	55,954	69,943
III-B	Transp. Improvement Plan														
	TIP	16,533	66,134	5,700	22,800	1,477	1,477	11,819	969	969	7,751	24,680	2,446	108,504	135,630
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
	1 Title VI	2,856	11,423	1,800	7,200	326	326	2,610	350	350	2,803	5,332	677	24,036	30,045
	2 Environmental Justice	2,256	9,023	2,000	8,000	0	0	0	0	0	0	4,256	-	17,023	21,279
	3 Minority Business Enterprise	0	0	400	1,600	0	0	0	0	0	0	400	-	1,600	2,000
	4 Planning for the Elderly & Disabled	565	2,258	400	1,600	0	0	0	0	0	0	965	-	3,858	4,823
	5 Safety/Drug Control Planning	2,800	11,200	1,800	7,200	0	0	0	0	0	0	4,600	-	18,400	23,000
	6 Public Involvement	10,301	41,204	2,500	10,000	326	326	2,610	937	937	7,494	14,064	1,263	61,308	76,635
	7 Private Sector Participation	0	0	0	0	0	0	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	-	-	-	-
	2 Enviro. Analysis & Pre-TIP Plng.	3,900	15,600	2,400	9,600	0	0	0	0	0	0	6,300	-	25,200	31,500
	3 Special Studies	36,675	146,701	0	0	1,795	1,795	14,362	85,500	85,500	684,000	123,970	87,295	845,062	1,056,328
	4 Regional or Statewide Planning	22,707	90,828	3,600	14,400	1,317	1,317	10,536	0	0	0	27,624	1,317	115,764	144,705
III-E	Management & Operations														
	1 Management & Operations	46,806	187,224	8,326	33,304	8,149	8,149	65,194	2,155	2,155	17,238	65,436	10,304	302,960	378,700
	Totals	\$410,746	\$1,642,986	\$75,000	\$300,000	\$35,000	\$35,000	\$280,000	\$113,783	\$113,783	\$910,261	\$634,529	\$148,783	\$3,133,246	\$3,916,558

LPA

	Task Description	STP-DA 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	\$30,000	\$120,000	\$240	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$30,240	\$0	\$120,960	\$151,200
	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 Accidents	\$2,000	\$8,000	\$1,080	\$4,320	\$0	\$0	\$0	\$0	\$0	\$0	\$3,080	\$0	\$12,320	\$15,400
	5 Transit System Data	\$1,600	\$6,400	\$1,200	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800	\$0	\$11,200	\$14,000
	6 Dwelling Unit, Pop. & Emp. Change	\$8,000	\$32,000	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$13,000	\$0	\$52,000	\$65,000
	7 Air Travel	\$400	\$1,600	\$100	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$500	\$0	\$2,000	\$2,500
	8 Vehicle Occupancy Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	9 Travel Time Studies	\$8,400	\$33,600	\$1,800	\$7,200	\$0	\$0	\$0	\$0	\$0	\$0	\$10,200	\$0	\$40,800	\$51,000
	10 Mapping	\$8,000	\$32,000	\$4,800	\$19,200	\$0	\$0	\$0	\$0	\$0	\$0	\$12,800	\$0	\$51,200	\$64,000
	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	\$3,600	\$14,400	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,600	\$0	\$18,400	\$23,000
	13 Bike & Ped. Counts	\$11,000	\$44,000	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000	\$0	\$48,000	\$60,000
II B	Long Range Transp. Plan														
	1 Collection of Base Year Data	\$3,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000	\$0	\$12,000	\$15,000
	2 Collection of Network Data	\$4,700	\$18,800	\$800	\$3,200	\$0	\$0	\$0	\$0	\$0	\$0	\$5,500	\$0	\$22,000	\$27,500
	3 Travel Model Updates	\$59,260	\$237,040	\$1,932	\$7,728	\$0	\$0	\$0	\$0	\$0	\$0	\$61,192	\$0	\$244,768	\$305,960
	4 Travel Surveys	\$300	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300	\$0	\$1,200	\$1,500
	5 Forecast of Data to Horizon year	\$3,000	\$12,000	\$240	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$3,240	\$0	\$12,960	\$16,200
	6 Community Goals & Objectives	\$2,000	\$8,000	\$1,330	\$5,320	\$0	\$0	\$0	\$0	\$0	\$0	\$3,330	\$0	\$13,320	\$16,650
	7 Forecast of Future Travel Patterns	\$11,000	\$44,000	\$1,100	\$4,400	\$0	\$0	\$0	\$0	\$0	\$0	\$12,100	\$0	\$48,400	\$60,500
	8 Capacity Deficiency Analysis	\$5,360	\$21,440	\$2,400	\$9,600	\$0	\$0	\$0	\$0	\$0	\$0	\$7,760	\$0	\$31,040	\$38,800
	9 Highway Element of the L RTP	\$9,937	\$39,747	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$13,737	\$0	\$54,947	\$68,684
	10 Transit Element of the L RTP	\$7,000	\$28,000	\$3,800	\$15,200	\$0	\$0	\$0	\$0	\$0	\$0	\$10,800	\$0	\$43,200	\$54,000
	11 Bicycle & Ped. Element of the L RTP	\$10,600	\$42,400	\$3,200	\$12,800	\$0	\$0	\$0	\$0	\$0	\$0	\$13,800	\$0	\$55,200	\$69,000
	12 Airport/Air Travel Element of L RTP	\$1,120	\$4,480	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,320	\$0	\$5,280	\$6,600
	13 Collector Street Element of L RTP	\$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 L RTP	\$1,400	\$5,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000
	15 Freight Movement/Mobility Planning	\$3,000	\$12,000	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$3,200	\$0	\$12,800	\$16,000
	16 Financial Planning	\$2,000	\$8,000	\$480	\$1,920	\$0	\$0	\$0	\$0	\$0	\$0	\$2,480	\$0	\$9,920	\$12,400
	17 Congestion Management Strategies	\$14,000	\$56,000	\$2,252	\$9,008	\$0	\$0	\$0	\$0	\$0	\$0	\$16,252	\$0	\$65,008	\$81,260
	18 Air Qual. Planning/Conformity Anal.	\$1,360	\$5,440	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$2,960	\$0	\$11,840	\$14,800
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	\$5,800	\$23,200	\$4,000	\$16,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,800	\$0	\$39,200	\$49,000
III-B	Transp. Improvement Plan														
	TIP	\$7,800	\$31,200	\$5,700	\$22,800	\$0	\$0	\$0	\$0	\$0	\$0	\$13,500	\$0	\$54,000	\$67,500
III-C	Cvl Rgts. Cmp./Otr .Reg. Reqs.														
	1 Title VI	\$2,000	\$8,000	\$1,800	\$7,200	\$0	\$0	\$0	\$0	\$0	\$0	\$3,800	\$0	\$15,200	\$19,000
	2 Environmental Justice	\$1,800	\$7,200	\$2,000	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,800	\$0	\$15,200	\$19,000
	3 Minority Business Enterprise	\$0	\$0	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$400	\$0	\$1,600	\$2,000
	4 Planning for the Elderly & Disabled	\$400	\$1,600	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$800	\$0	\$3,200	\$4,000
	5 Safety/Drug Control Planning	\$2,800	\$11,200	\$1,800	\$7,200	\$0	\$0	\$0	\$0	\$0	\$0	\$4,600	\$0	\$18,400	\$23,000
	6 Public Involvement	\$8,800	\$35,200	\$2,500	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$11,300	\$0	\$45,200	\$56,500
	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.	\$3,500	\$14,000	\$2,400	\$9,600	\$0	\$0	\$0	\$0	\$0	\$0	\$5,900	\$0	\$23,600	\$29,500
	3 Special Studies	\$4,000	\$16,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	\$0	\$16,000	\$20,000
	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	\$38,649	\$154,597	\$8,326	\$33,304	\$0	\$0	\$0	\$0	\$0	\$0	\$46,975	\$0	\$187,901	\$234,876
	Totals	\$297,380	\$1,189,520	\$75,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$372,380	\$0	\$1,489,520	\$1,861,900

DCHC MPO Task Description and Summary Narrative

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 various 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 FY 2016 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 Lead Planning Agency (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. The following table illustrates the proposed FY 2015 count locations:

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 LRTP Targets. The MPO will continue to refine the methodology for tracking multi-modal PMT. This information will help to develop performance measures required by MAP 21 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 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. This data will also feed into the MPO Performance measures as required by federal regulations.

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 (3) year period within the MPO Metropolitan Planning Boundary. This task will align, build off of 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 MPO multi modal MPO Safety Report and safety component of the Mobility Report Card.

Task II-A-5: Transit System Data

The LPA will undertake a comprehensive transit system data collection effort during this fiscal year. Transit data will be collected for the MPO transit providers, GoDurham (formerly Durham Area Transit Authority), Chapel Hill Transit (CHT), GoTriangle (formerly Triangle Transit Authority) and Duke University Transit. This will include APC data to evaluate transit service performance, route productivity, and develop standards. Transit 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 (fall 2015 and spring 2016) as follows: stop level, trip level, time period (peak/non peak) 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 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 2040 Metropolitan Transportation Plan (2040 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 special generator on the regional transportation system as well as to identify needs 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 is proposing collecting highway/auto travel time and speed along 120 facilities and transit travel time/speed on approximately 85 routes (including TTA route) within the DCHC MPO planning area. The MPO will continue to update the HERE travel time and the MS2 travel time portal.

Task II-A-10: Mapping

This task will 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 GIS Online portals
- GIS online mappings
- Maintenance and development of updated MPO data collection maps
- Transit APC mapping
- Updated transit routes, stops, segments with attributes.
- Maintain project inventory 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 NAVTED 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 (PASA)

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 the development of performance measure. The proposed inventory will provide accurate inputs for the travel model update as well as help identify future sidewalk project needs, 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 2035 LRTP and 2040 MTP support and encourage 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 the planning and mapping tool 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 measure. The proposed inventory will provide accurate inputs for the travel model update as well as help identify future sidewalk project needs, guide pedestrian improvement planning, and to support specific projects, such as the Comprehensive Bicycle Plan and 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 the MAP-21 performance measures development. The inventory will guide pedestrian improvement planning, and to 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 Activities

Federal Law (as updated by MAP-21) and USDOT's Metropolitan Planning Regulations require the MPO to have a Long-Range Transportation Plan (LRTP) that is: multi-modal, financially constrained, has a minimum 20 year horizon, adheres to the MPO's adopted Public Involvement Policy (PIP), have growth forecasts consistent with latest planning assumptions and local land use plan, meet air quality conformity and be approved by the Transportation Advisory Committee. The LRTP must be updated and reaffirmed every 4 years. The DCHC will continue tasks associated with the development of the comprehensive transportation plan as well as commence data collection preparation for the 2015 model base year. The MPO will continue to work on the development of strategy and procedure for timely and efficient development of the 2045 MTP.

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

This work element 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/indices; and 5) connectivity.

Task II-B-3: Travel Model Updates

LPA staff will continue to be involved in the development, enhancement and update of the Triangle Regional Model (TRM). Specifically, work in this period will focus on the development, calibration and development of Version 6 of the model and preparatory work for version 7. 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, training of internal and member agencies' staff, 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 the travel models are developed in a coordinated manner according to future needs and expectations. Consultants and University partnership/assistance will be utilized in undertaking work activities under this task. Modeling activities proposed under this work element also cover advanced transit studies that include improvements on transit data collection methods and innovative methods of conducting transit surveys. The results of these studies will increase the quality of the transit forecasting models that are used in the New Starts application process.

The DCHC MPO in concert with CAMPO, NCDOT and the Triangle Transit develops and maintains a state of the practice 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, STOP/TIP prioritization, Mobility funds ranking and loop prioritization, by TTA in new Start analysis and fixed guideway transit, and by local and state agencies for development impacts analysis and scenario planning. The main thrusts of the modeling work task proposed herein are summarized as follows:

- 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 that TRM base year and futures years are ready for MTP alternative evaluation at least 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 and 7 and 2045 MTP. Update of the Triangle Regional Model (TRM) including improvements, enhancements and major updates. Proposed tasks include model sub-area enhancement and other improvements identified during the development of the current MTP such as:

- Capacities revision
- Parking enhancement/parking choice
- Performance measures automation
- Net Manager Update
- Transit select link tools
- Population synthesizer
- Peak hour highway and transit demand forecasts
- Peak spreading
- Employee categorization/place of residence
- Free flow speed
- Destination choice improvements
- Script and input file modification and enhancement
- Integration of TRM and Moved
- Explore dynamic assignment

Task II-B-4: Travel Surveys

The DCHC MPO along with the other TRM stakeholders will undertake travel behavior survey (household survey) and Transit Onboard survey tabulation and analysis. The survey is being managed by the TRM Service Bureau, however the 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

The MPO proposes to undertake the update of the 2045 Goals, Objectives performance measure and targets. The MPO will begin the process of facilitating local input for the Community Goals and Objectives section of the 2045 MTP. General input on community transportation priorities may also be sought under this task listing.

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

MPO will generate travel demand forecasts for future years including the 2045 MTP horizon and intermediate years. 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 the CTP, 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 LRTP

The MPO will continue with the evaluation of highway elements of the Comprehensive Transportation Plan and the update 2045 MTP. Performance measures will be established for evaluating highway alternatives and will include identification and assessment of needs, evaluation of alternatives and selection of preferred options.

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

The MPO will continue with the 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, highway capacity transit and demand-response transit. Using travel behavior, ridership forecasts and other analysis, evaluation of transit element will look at unmet needs, new service areas and potential markets. Performance measures will be established for evaluating transit alternatives. Also, will include identification and assessment of needs, evaluation of alternatives and selection of preferred options.

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 LRTP

The MPO will continue with the evaluation of bicycle and pedestrian elements of the Comprehensive Transportation Plan and the MTP. The MPO will continue work on the Durham Comprehensive pedestrian Plan and the Old Durham-Chapel Hill Road bicycle and pedestrian feasibility study. Work will commence on the development of the Durham Comprehensive Bicycle Plan. The MPO will solicit consulting help in the development of the MPO bicycle and pedestrian educational brochures and pamphlets as well as Durham County bike map.

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

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.

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

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 LRTP

The MPO will continue to work with NCDOT Rail Division, GoTriangle and CAMPO regarding rail transportation in the Triangle. Work proposed 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, task will include planning associated with commuter and light rail efforts.

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 to be undertaken include survey of freight carriers, recommendations for improving truck mobility or train/truck intermodal movements, and identifying acceptable truck routes. The MPO will continue to project management role to the development of the Triangle Regional Freight study.

Task II-B-16: Financial Planning

The MPO will develop and update cost estimates and revenues for the 2045 MTP. As part of this task, the MPO will examine financial options for funding proposed transportation projects and programs, including review the financial planning assumptions/ projections in the 2040 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 update metrics, graphics and reports. The MPO will continue to participate in and collaborate on the update, monitoring and implementation of the Travel Demand Management (TDM) activities and program.

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

Although the MPO is now designated as attainment for criteria pollutants as of September 18, 2015, the MPO will continue to perform and undertake air quality planning activities. Essentially, the MPO will continue to make a determination as to whether or not transportation plans, programs, and projects (LRTP and TIP) conform to air quality standards. The LPA will continue to provide technical support to the TAC and TCC regarding air quality planning. In addition the LPA will continue participation in the development and application of State Implementation Plans for air quality, participation in the statewide interagency consultation, and providing assistance to NCDENR in developing and maintaining mobile source emission inventories.

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) support 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 reauthorization 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 FY20 16 UPWP and administer the FY 2016-2017 UPWP and prepare and process amendments as needed, evaluate transportation planning work needs and emphasis areas and prepare the FY 2016-2017 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 FY 2017. 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 FY 18 UPWP.

Task III-B: Transportation Improvement Program (TIP)

The LPA will continue work associated with the development of the 2018-27 MTIP, including prioritization work (SPOT-4) 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 STP 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 2040 Metropolitan Transportation Plan, STIP and FHWA/FTA Planning Regulations.

Task III-C: Civil Rights Compliance/Other Regulations and RequirementsTask III-C-1: Title VI

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 the elderly and disabled. Specifically, the MPO will update inventory of locations and needs of elderly and disabled persons. 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.

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 postings and Facebook), and maintaining the 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 NEPA process including taking the lead in the public involvement process as need be. 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 Community Viz 2.0 update, ADA Transition plan, Funding /TIP database, Application and portals development, incident management plan, GIS enterprise/GIS online, non-motorized trip model update, Land-use model update, etc.

Task III-D-4: Regional or Statewide Planning

The MPO will continue to coordinate with CAMPO, TTA, NCDOT, DENR, FHWA, FTA, EPA, and other State and regional agencies in regional transportation. This includes participation in the DCHC-CAMPO joint TAC meetings, TTA 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 Comprehensive Transportation Plan.

Task III-E: Management and Operations

The thrust of this work program is 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. This work element encompasses the administration and support of transportation planning process as mandated and required by federal regulations. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes to these meetings, training, preparing quarterly progress reports, documenting expenditures for the various planning work items, and filing for reimbursement of expenditures from the PL and STP-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, DENR, 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 the Capital Area Metropolitan Planning Organization (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 Transportation Advisory Committee (TAC) and other member jurisdictions policy bodies.
8. Participate in Joint CAMPO/DCHC TCC and TAC meetings as a means 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 transportation-related plans, programs, regulations and guidelines.

DCHC MPO 5-Year Unified Planning Work Program July 1, 2016 to June 30, 2021					
	1	2	3	4	5
FY	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Period	2016-17	2017-18	2018-19	2019-20	2020-21
	July 1, 2016-June 30, 2017	July 1, 2017-June 30, 2018	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021
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 databasr system	ADT count and TMC annual and seasonal, including update of count databasr system	ADT count and TMC annual and seasonal, including update of count databasr system	ADT count and TMC annual and seasonal, including update of count databasr system	ADT count and TMC annual and seasonal, including update of count databasr 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 NAVTEQ Street layer	Street System Changes update. Update of NAVTEQ Street layer	Street System Changes update. Update of NAVTEQ Street layer	Street System Changes update. Update of NAVTEQ Street layer	Street System Changes update. Update of NAVTEQ 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, etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA, etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA, etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA, etc	Housing, POP, Emp. Data,including development review/permits, CO, Census, INFOUSA, etc
1.7	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger activities and ground transportation	Air travel. Continual monitoring of RDU passemger 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 databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise	Mapping and update/enhancement and maintenance of the MPO Geo-spatial databse and GIS enterprise
1.11	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	Process UPWP amendments as necessary	Process UPWP amendments 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 2018 UPWP	Develop FY 2019 UPWP	Develop FY 2020 UPWP	Develop FY 2021 UPWP	Develop FY 2022 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	Oversight of the LPA Local match Cost Sharing, including preparation of annual report.	Oversight of the LPA Local match Cost Sharing, including preparation of annual report.	Oversight of the LPA Local match Cost Sharing, including preparation of annual report.	Oversight of the LPA Local match Cost Sharing, including preparation of annual report.	Oversight of the 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	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning	Metropolitan Transportation Plan (MTP)/Long-Range Transportation Planning

DCHC MPO 5-Year Unified Planning Work Program					
July 1, 2016 to June 30, 2021					
	1	2	3	4	5
FY	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Period	2016-17	2017-18	2018-19	2019-20	2020-21
	July 1, 2016-June 30, 2017	July 1, 2017-June 30, 2018	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021
3.1	Amendment of the 2040 LRTP for AQ analysis and conformity as necessary	Adoption of the CTP	Amendment of the 2040 LRTP for AQ analysis and conformity as necessary	Work commences on MPO wide Community visioning. Product to lead into Goals and Objectives development	2050 MTP environmental analysis and consideration
3.2	Refinement of SE forecast to Horizon and intermediate years.	MTP Financial analysis and preparation of Financial Plan.	Initiate work on Community Viz 3.0 and scenario planning set up and preparation	Work associated with Goals, Objectives and targets for 2050 MTP commences.	Model and technical analyses for the 2050 MTP
3.3	Model Update and application for 2045 MTP analysis	2045 MTP environmental analysis and consideration	Initiate work associated with the socio-economic and demographic data collection and tabulation for 2050 MTP	Deficiency analysis and needs assessment	Selection of Preferred MTP Option.
3.4	Inter-Agency Consultation process	Model and technical analyses for the 2045 MTP	Update of base year networks and their attributes	initiate work associated with SE data collection and Forecasts for 2050 MTP	Adoption of the 2050 MTP for Air Quality conformity analysis
3.5	CTP update-Completion of Alternative Analysis and Selection of Preferred CTP Option.	Selection of Preferred MTP Option.	Update of modeling and technical tools for 2050 MTP analyses.	Deficiency analysis and need assessment for the 2050 MTP	AQ analysis and conformity determination process
3.6	Land-use Scenario analysis	Adoption of the 2045 MTP for Air Quality conformity analysis	Continue work on GIS and mapping for MTP base maps	Generation of alternatives and evaluation of alternatives for the 2050 MTP.	Inter-Agency Consultation process
3.7	2045 MTP Visioning process	AQ analysis and conformity determination process		Community Viz work commences.	
	Deficiency analysis and need assessment for the 2045 MTP	Inter-Agency Consultation process			
	Development of the Regional Freight Plan	Preparation of 2045 MTP and air quality conformity report			
	Preparation of CTP report	Adoption of 2045 MTP and air quality conformity report			
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 household and transit on board survey fall 2015. 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 2016. 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	Maintain/enhance TRMv6: develop additional tools for application			2020 census TAZ delineation
4.5	Maintain/enhance TRMv6: develop improved parking model	Develop TRMv7: begin developing/adapting application programs for population synthesizer/tour-activity scheduler/router			
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					

DCHC MPO 5-Year Unified Planning Work Program					
July 1, 2016 to June 30, 2021					
	1	2	3	4	5
FY	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Period	2016-17	2017-18	2018-19	2019-20	2020-21
	July 1, 2016-June 30, 2017	July 1, 2017-June 30, 2018	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021
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	Update of the Comprehensive Pedestrian Plan	Update of the Comprehensive Bicycle Plan. Update of the Regional Bike Plan	on-going implementation of the bike and pedestria plans	on-going implementation of the bike and pedestria plans	on-going implementation of the bike and pedestria 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
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	Update of Transit Development Plan (TDP)/Short range transit planning.	Update of Transit Development Plan (TDP)/Short range transit planning.	Update of Transit Development Plan (TDP)/Short range transit planning.	Transit survey	Transit survey
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		Update of area of incluce and congestion networks. Application & reevaluation of definition of congestion		Update of area of incluce and congestion networks. Application & reevaluation of definition of congestion	
7.4		Transportation system definition (modes & networks)		Transportation system definition (modes & networks)	
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
	BOT Approves 2018-2027 STIP	Finalize SPOT 5 Point Assignment	BOT Approves 2020-2029 STIP	Develop final draft 2022-2031 MTIP. TIP conformity determination	Develop final draft 2020-2026 MTIP. TIP conformity determination
	Update TIP ranking & project prioritization methodology as necessary	One-on-one discussion between the MPO and NCDOT	Update TIP ranking & project prioritization methodology as necessary	One-on-one discussion between the MPO and NCDOT	BOT Approves 2020-2026 STIP
	Develop & submit TIP Project Priority List for SPOT5 (2020-2029 TIP)	Analysis of the draft 2020-2029 STIP local supplement	Develop & submit TIP Project Priority List for SPOT-6 (2022-2031 TIP)	Analysis of the draft 2031-2031 STIP local supplement	Develop & submit TIP Project Priority List for SPOT-7 (2024-2033 TIP)
	Review project revisions, modification and new submissions and prepare comparative analysis Generate data associated with P5 online submission	Development 2020-2029 MTIP . Public input and comment process.	Review project revisions, modification and new submissions and prepare comparative analysis Generate data associated with P6 online submission	Development 2022-2031 MTIP . Public input and comment process.	Review project revisions, modification and new submissions and prepare comparative analysis Generate data associated with P7 online submission
	SPOT-5 Prioritization	Develop draft 2020-2029 MTIP.	SPOT6 Prioritization	One-on-one discussion between the MPO and NCDOT	SPOT-7 Prioritization
	MPO SPOT 5 points assignment		MPO SPOT 6 points assignment	Development 2020-2026 MTIP . Public input and comment process.	MPO SPOT-7 points assignment

DCHC MPO 5-Year Unified Planning Work Program July 1, 2016 to June 30, 2021					
	1	2	3	4	5
FY	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Period	2016-17	2017-18	2018-19	2019-20	2020-21
	July 1, 2016-June 30, 2017	July 1, 2017-June 30, 2018	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021
	Develop final draft 2018-2027 MTIP.				
	Process MTIP amendments as needed	Process MTIP amendments as needed	Process MTIP amendments as needed	Process MTIP amendments as needed	Process MTIP amendments as needed
	Annual TIP project Listing	Annual TIP project Listing	Annual TIP project Listing	Annual TIP project Listing	Annual TIP project Listing
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.
	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

DCHC MPO 5-Year Unified Planning Work Program July 1, 2016 to June 30, 2021					
	1	2	3	4	5
FY	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Period	2016-17	2017-18	2018-19	2019-20	2020-21
	July 1, 2016-June 30, 2017	July 1, 2017-June 30, 2018	July 1, 2018-June 30, 2019	July 1, 2019-June 30, 2020	July 1, 2020-June 30, 2021
	on-going freight planning and coordination	on-going freight planning and coordination	on-going freight planning and coordination	on-going freight planning and coordination	on-going 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
	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) planning, programming, implementation, monitoring and evaluation	TDM and TSM (ITS) 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>
	Maintain Databases	Acquire and Maintain Data; maintain hardware and software	Acquire and Maintain Data; maintain hardware and software	Acquire and Maintain Data; maintain hardware and software	Acquire and Maintain 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
	<i>Update green print maps</i>	<i>Update green print maps</i>	<i>Update green print maps</i>	<i>Update green print maps</i>	<i>Update green print maps</i>
	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
	TAC directives	TAC directives	TAC directives	TAC directives	TAC 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
	Parking study update	As Needed	As Needed	As needed	As needed

Appendix A

FHWA/FTA Agency Funding Source Tables

Town of Carrboro
Task Funding Table and Supporting Documents

Town of Carrboro

	Task Description	STP-DA		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	\$149	\$595	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$149	\$0	\$595	\$744
	2 Vehicle Miles of Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Street System Changes	\$42	\$169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42	\$0	\$169	\$211
	4 Traffic Accidents	\$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	\$152	\$609	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$152	\$0	\$609	\$761
	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	\$773	\$3,091	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$773	\$0	\$3,091	\$3,864
	11 Central Area Parking Inventory	\$126	\$506	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$126	\$0	\$506	\$632
	12 Bike & Ped. Facilities Inventory	\$79	\$318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$79	\$0	\$318	\$397
	13 Bike & Ped. Counts	\$186	\$744	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$186	\$0	\$744	\$930
II-B	Long Range Transp. Plan														
	1 Collection of Base Year Data	\$121	\$486	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$121	\$0	\$486	\$607
	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	\$121	\$486	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$121	\$0	\$486	\$607
	6 Community Goals & Objectives	\$166	\$664	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$166	\$0	\$664	\$830
	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 LRTP	\$123	\$492	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$123	\$0	\$492	\$615
	10 Transit Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the LRTP	\$123	\$492	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$123	\$0	\$492	\$615
	12 Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of LRTP	\$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	\$83	\$332	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$83	\$0	\$332	\$415
	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	\$410	\$1,638	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$410	\$0	\$1,638	\$2,048
III-A	Planning Work Program														
	Planning Work Program	\$404	\$1,618	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$404	\$0	\$1,618	\$2,022
III-B	Transp. Improvement Plan	\$0	\$0												
	TIP	\$630	\$2,518	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$630	\$0	\$2,518	\$3,148
III-C	Cvl Rgts. Cmp/Otr. Reg. Reqs.	\$0	\$0												
	1 Title VI	\$83	\$330	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$83	\$0	\$330	\$413
	2 Environmental Justice	\$83	\$330	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$83	\$0	\$330	\$413
	3 Minority Business Enterprise	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4 Planning for the Elderly & Disabled	\$165	\$658	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165	\$0	\$658	\$823
	5 Safety/Drug Control Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	6 Public Involvement	\$328	\$1,311	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$328	\$0	\$1,311	\$1,639
	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	\$555	\$2,219	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$555	\$0	\$2,219	\$2,774
	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	\$1,834	\$7,334	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,834	\$0	\$7,334	\$9,168
Totals		\$6,735	\$26,941	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,735	\$0	\$26,941	\$33,676

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

II-A-1 Traffic 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, and-or local traffic studies.

Previous Work

In FY 2012, the Town submitted traffic count data for the CMP. The Town has collected traffic data for traffic calming studies and assessing the impact from diverted traffic due to a construction-related street closure. Three Mobility Report Cards (2003, 2005 and the DCHC-MPO in 2014) report vehicular traffic and congestion, as well as pedestrian and bicycle traffic.

Proposed Activities

1. Collect traffic data using Town counters and manual bike-ped counting
2. Provide traffic data and reports as needed for the previously mentioned MPO activities
3. Continue to explore with LPA staff the potential borrowing of turning movement counters to collect data relevant to the CMP or other traffic analyses
4. Continue to collect traffic data relating to local traffic calming requests

Products

1. Traffic volume data from as recent a year as possible

Relationship to other plans and MPO activities

Data will be used for the CMP. Counts may be helpful in determining focus areas for TDM strategies and the Triangle Regional Model (TRM).

Proposed budget and level of effort

All work to be completed by Transportation Planner. Local staff hours: 20 hours

II-A-3 Street System Changes

The Town will assemble any municipal street system changes from the last reporting year and provide the data to the LPA.

Objectives

To maintain a current shapefile of Carrboro's street system and provide data to the LPA.

Previous Work

No work has previously been done on this task.

Proposed Activities

1. Track changes to Carrboro's street system
2. Maintain shapefile of current street system
3. Submit data to LPA with 4th quarter reports

Products

Current municipal street system dataset for LPA use

TOWN OF CARRBORO

TASK DESCRIPTIONS & NARRATIVES

FY 2016-2017 UPWP

Relationship to other plans and MPO activities

Data can be used for CMP and regional TRM

Proposed budget and level of effort

60 percent of work to be completed by GIS Analyst

40 percent of work to be completed by Transportation Planner

Local staff hours: 5 hours

II-A-6 Dwelling Unit, Population, & Employment Change

The Town will review population and employment change data estimated by the Community Viz 2.0 process and-or dwelling unit, population, and employment data relevant to the next MTP and the Triangle Regional Model (TRM). The Town will also collect monthly development review activities, building permits, and Certificate of Occupancy (CO) data.

Objectives

To review dwelling unit, population, and employment data as part of the 2045 MTP, and the Travel Behavior Survey (TBS) of the Triangle Regional Model (TRM) processes and provide local development data to LPA.

Previous Work

In FY 2012 and again in 2016, the Town submitted/will submit place type and development status information to the LPA and reviewed population and employment control totals for use in the 2040 and 2045 MTP.

Proposed Activities

1. Review data generated by the TBS household survey
2. Use CommunityViz 2.0 to further analyze future development scenarios in the subregion that includes Carrboro
3. Collect monthly development review activities, building permits, and Cos and submit to LPA

Products

1. Verified household and employment data for Carrboro
2. Tabulation of development review proposals, building permits, and Cos
3. Monthly and year-end data submitted to LPA and summarized in quarterly progress report

Relationship to other plans and MPO activities

Relates to 2045 MTP and TRM processes.

Proposed budget and level of effort

90 percent of work to be completed by Transportation Planner

10 percent of work to be completed by GIS Analyst. Local staff hours: 20 hours

II-A-10 Mapping

Town staff will update mapping for socio-economic data, development proposals/building permits/COs, bike-pedestrian networks, and the highway element of the 2045 MTP

Objectives

To support mapping activities for the 2045 MTP and generate maps as needed for other MPO or Town transportation planning tasks.

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

Previous Work

The Town provided/is providing local socioeconomic data for the 2040 and 2045 MTP. Reviewed and modified CommunityViz 2040 MTP place type and development status categories. Mapped new transit routes for 2040 MTP Transit Element. The Town provided bicycle and pedestrian shapefiles for 2040 MTP, 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 and edit place type and development status layers for CommunityViz
2. Review maps made for the MTP, CTP, and other MPO-related activities
3. Provide any data or maps as requested by the LPA
4. Maintain current GIS data for all transportation planning activities in Carrboro

Products

1. Maps containing socio-economic data, development proposals/building permits/COs, bike-pedestrian network, and the highway element of the 2045 MTP

Relationship to other plans and MPO activities

2045 MTP, Carrboro Parking Plan, Orange Co. Bus and Rail Investment Plan, and the 2009 Comprehensive Bicycle Transportation Plan

Proposed budget and level of effort

70 percent of work to be completed by GIS Analyst

30 percent of work to be completed by Transportation Planner. Local staff hours: 90 hours

II-A-11 Central Area Parking Inventory

Town staff will conduct an inventory of public and private parking spaces in downtown Carrboro and other areas of town as necessary.

Objectives

To develop and maintain a complete inventory of public and private parking spaces in downtown Carrboro, and in other areas as needed. Town staff will also support the Carrboro Parking Plan's data collection and analysis and use the plan's recommendations to inform parking policies.

Previous Work

The Town maintains an inventory of all municipal parking spaces. The last major inventory of private spaces was conducted as part of Carrboro Parking: An Exploratory Study, a 2008 study conducted by the UNC Dept. of City and Regional Planning. A UNC Capstone study of downtown parking was conducted in 2014 to update the early work. Chapel Hill Transit maintains an inventory of park-and-ride spaces.

Proposed Activities

1. Continue efforts to review existing public and private parking space inventory data and ensure it is up-to-date
2. As part of the Parking Plan process, coordinate with the consulting team to use the inventory for analyses of parking utilization
3. Use recommendations from Parking Plan to inform Town parking policies

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

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 Parking Plan, 2045 MTP

Proposed budget and level of effort

60 percent of work to be completed by GIS Analyst

40 percent of work to be completed by Transportation Planner. Local staff hours: 15 hours

II-A-12 Bicycle and Pedestrian Facilities Inventory

The Town will review bicycle and pedestrian facility data to ensure it is up-to-date for the 2045 MTP and update its GIS shapefiles to reflect new bicycle and pedestrian facilities installed since 2009.

Objectives

To make current the Town's GIS data on bicycle and pedestrian facilities and to provide up-to-date bicycle and pedestrian facilities information to LPA staff

Previous Work

The Town has collected bicycle and pedestrian facility data for a number of planning processes, including previous MTPs and the 2009 Carrboro Bicycle Transportation Plan.

Proposed Activities

1. Add features to GIS shapefiles of bicycle facilities and sidewalks
2. Send data as needed to LPA staff in the development of the MTP or other MPO planning processes
3. Review data collected by ITRE/MPO as part of pilot bike/ped counter project

Products

1. Up-to-date shapefiles and databases
2. Qualitative information on bicycle and pedestrian facilities as needed

Relationship to other plans and MPO activities

Bicycle and pedestrian facility data is an important part of the bicycle and pedestrian element of the LRTP and the CTP

Proposed budget and level of effort

70 percent of work to be completed by Transportation Planner

30 percent of work to be completed by GIS Analyst. Local staff hours: 10 hours

II-A-13 Bicycle and Pedestrian Counts

The Town will contribute existing bicycle and pedestrian traffic information for the next MTP and other planning processes as needed. Where more recent data would be helpful, the Town will arrange to conduct additional bicycle and pedestrian counts.

Objectives

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

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 travel data for regional planning processes, such as the next MTP and-or Congestion Management Process.

Previous Work

The Town has collected bicycle and pedestrian traffic data from a number of planning processes, including the 2009 Comprehensive Bicycle Transportation Plan and Mobility Report Cards. Recent traffic impact analyses, the CMP, and in-house Town counts at the Greensboro St.-Main St. intersection have yielded additional data to study a specific program or intersection. The Town is participating 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.

Proposed Activities

1. Continue to conduct bicycle and pedestrian counts
2. Assume ownership of the bike counters on Libba Cotten and Old 86, provide necessary maintenance, and use counts for Town analysis and MPO data collection
3. 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

The Town is conducting an analysis of downtown traffic and has collected bike-ped counts for it. A neighborhood traffic study coordinated by the MPO has also involved bike-ped data collection. CMP, MTP Bicycle and Pedestrian chapter, NCDOT / ITRE bike-ped count study (non-MPO)

Proposed budget and level of effort

All work to be completed by Transportation Planner. Local staff hours: 25 hours

II-B-1 Collection of Base Year Data

Town staff will review residential and employment data for the 2045 MTP and the TRM.

Objectives

To ensure accurate base year residential and employment data

Previous Work

The MPO developed control totals for the 2045 MTP. CommunityViz was used to assign existing place types and development statuses.

Proposed Activities

1. Review control totals, residential and employment data, and CommunityViz 2.0 shapefiles for accuracy
2. Participate in meetings to discuss collection of base year data

Products

1. Review comments and edited data/shapefiles as needed

Relationship to other plans and MPO activities

TOWN OF CARRBORO **TASK DESCRIPTIONS & NARRATIVES** **FY 2016-2017 UPWP**

2045 MTP, TRM and TBS household survey.

Proposed budget and level of effort

65 percent of work to be completed by Transportation Planner
15 percent of work to be completed by Planning Administrator
20 Percent of work to be completed by the GIS Analyst
Local staff hours: 15 hours

II-B-5 Forecast of Data to Horizon Year

Town staff will work with MPO staff and staff from other MPO member jurisdictions to use CommunityViz 2.0 to project data to 2045 and review land use and transportation projections

Objectives

To ensure control totals for forecasts are accurate to the greatest possible extent, and improve upon the CommunityViz 2.0 scenario process from the 2040 MTP.

Previous Work

For the 2040 MTP, the Town contributed data and reviewed comments for countywide growth control totals and the CommunityViz allocation of growth estimates within Orange County.

Proposed Activities

1. Review control totals and offer comments
2. Edit CommunityViz place type and development status layers to project future scenarios, such as maximum build-out possible given current land use plans and zoning
3. Participate in meetings to discuss projections of future data

Products

1. Review comments
2. Edited and quality-checked CommunityViz layers

Relationship to other plans and MPO activities

2045 MTP

Proposed budget and level of effort

70 percent of work to be completed by Transportation Planner
30 percent of work to be completed by Planning Administrator. Local staff hours: 15 hours

II-B-6 Community Goals and Objectives

The Town will continue the process of facilitating elected official and local input for the Community Goals and Objectives section of the 2045 MTP. General input on community transportation priorities may also be sought under this task listing.

Objectives

To continue tasks to prepare for local Goals and Objectives review for 2045 MTP and seek community input on other transportation priorities, goals, and objectives.

Previous Work

Town staff reviewed Goals and Objectives for the 2040 MTP as part of TCC consideration.

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

Proposed Activities

1. Hold public input events on transportation goals, objectives, and priorities
2. Research how to improve collecting community feedback on transportation priorities
3. Give presentations to the Carrboro Board of Aldermen and Transportation Advisory Board

Products

1. Public input event
2. Research and recommendations on community feedback
3. Board of Aldermen presentation

Relationship to other plans and MPO activities

2045 MTP, Public Involvement Policy, Parking Plan

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: 20 hours

II-B-9 Highway Element of the Long Range Transportation Plan

The Town will assist and support the MPO's efforts to evaluate the highway elements of the Comprehensive Transportation Plan (CTP) and the 2045 MTP. The Town will assist in the establishment of performance measures for evaluating highway alternatives and will identify and evaluate highway facilities to be included as part of the MPO for the highway component of the CTP. The Town of Carrboro's section of the highway element will be development in parallel with the MPO's effort.

Objectives

To provide adequate highway information as needed for the development of the 2045 MTP, CTP and any additional studies or planning efforts.

Previous Work

The Town coordinated with MPO partners in the development of the 2040 MTP Highway Element.

Proposed Activities

1. Provide information as needed on potential highway projects' extent, length, present and future lanes, funded completion year, and other information
2. Assist in updating the geodatabase of highway alternatives

Products

1. Highway sections, appendices, and maps for the next MTP and CTP
2. Updated geodatabase of highway alternatives

Relationship to other plans and MPO activities

The MTP will provide the foundation for future TIPs

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: 15 hours

II-B-11 Bicycle and Pedestrian Element of the Long Range Transportation Plan

**TOWN OF CARRBORO
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP**

The Town will contribute to the development of major bicycle and pedestrian system recommendations in the 2045 MTP and CTP.

Objectives

To provide adequate bicycle and pedestrian information as needed for the development of the 2045 MTP and CTP.

Previous Work

The Town coordinated with MPO partners in development of 2040 MTP Bicycle & Pedestrian Element.

Proposed Activities

1. Provide information as needed on potential bicycle or pedestrian projects' location, type, length, and cost
2. Assist in updating the geodatabase of bike-ped alternatives

Products

1. Bicycle and pedestrian sections, appendices, and maps for the next MTP and CTP
2. Updated geodatabase of bike-ped alternatives

Relationship to other plans and MPO activities

The MTP will provide the foundation for future TIPs

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: 15 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 continued analysis of downtown Carrboro congestion.

Objectives

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

Previous Work

The CMP is required by federal law and incorporated into the MTP and TIP processes. Several reports have been given to the Carrboro Board of Aldermen on downtown traffic level of service. A Synchro model of downtown Carrboro traffic has been developed.

Proposed Activities

1. Contribute to the ongoing development of the CMP
2. Continue to refine Synchro model of downtown traffic and research ways of reducing traffic congestion
3. Make presentations to the Carrboro Board of Aldermen and Transportation Advisory Board as needed

Products

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

1. Local traffic data for the CMP, as needed
2. Research and analysis on downtown traffic level of service

Relationship to other plans and MPO activities

As noted above, the CMP informs the MTP and TIP processes; Parking Plan; and the TBS of the TRM.

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: 10 hours

II-C-1 Short Range Transit Planning

The Town will participate in short-range transit planning for the Carrboro-Chapel Hill area. Through the Transit Partners Committee, the Town will provide input on Chapel Hill Transit planning initiatives. The Town will collaborate with GoTriangle where necessary and with the Town of Chapel Hill in coordinating the annual Transit Forum. The Town will coordinate with Orange County, GoTriangle, and the MPO on the implementation of the Bus and Rail Investment Plan for Orange County.

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 Bus and Rail Investment Plan for Orange County, coordinating with Orange County, GoTriangle, and the MPO. Town Staff will continue to coordinate with Triangle Transit in extending regional bus service to downtown Carrboro.

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. The Board of Aldermen endorsed the draft Bus and Rail Investment Plan for Orange County in May 2011. The Town has provided input into initiatives such as the Comprehensive Operations Analysis, Eubanks Road Park-and-Ride Feasibility Study, and others. The Town has studied the feasibility and walk/bike/drive markets for a GoTriangle bus stop at various locations in Carrboro and provided a report and other information to CHT and GoTriangle on improving walking access to bus stops in Carrboro.

Proposed Activities

1. Continue to participate in Transit Partners Committee and N-S Corridor Study meetings
2. Communicate with Orange County, GoTriangle, and the MPO, as needed, on the implementation of the Bus and Rail Investment Plan in Orange County
3. Coordinate with OCBRIIP Staff Working Group on service improvements and capital projects as part of the Bus and Rail Investment Plan, including providing information on transit access and service priorities
4. Communicate with GoTriangle on regional service extension
5. Coordinate with Chapel Hill Transit and Town of Chapel Hill staff to hold an annual transit forum
6. 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

Products

1. Meeting attendance

**TOWN OF CARRBORO
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP**

2. Capital projects information
3. Transit forum
4. Additional transit information as needed

Relationship to other plans and MPO activities

The Bus and Rail Investment Plan and its associated Interlocal Implementation Agreement were approved by Orange County, the MPO, and GoTriangle. The adopted 2040 MTP Transit element includes the recommendations of the BRI 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: 50 hours

III-A-1 Planning Work Program

The Town will administer the FY 2016-2017 UPWP, and prepare and process amendments as needed. Working with MPO staff, Town staff will identify transportation planning emphasis areas for the subsequent fiscal year and prepare the FY 2017-2018 UPWP. 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 2016-2017 UPWP activities, and process amendments to the UPWP if necessary. The Town will submit Carrboro's portion of the 2016-2017 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.

Proposed Activities

1. Complete quarterly reports for the 2016-2017 UPWP
2. Complete amendment spreadsheets as needed
3. Prepare Carrboro's 2017-2018 UPWP documents and budget
4. Attend LPA oversight meetings and review documents

Products

1. Quarterly progress reports and invoices to the MPO on UPWP activities
2. Amendment spreadsheets as needed
3. Carrboro's 2017-2018 UPWP activities narrative and budget

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

70 percent of work to be completed by Transportation Planner

30 percent of work to be completed by Planning Administrator. Local staff hours: 50 hours

**TOWN OF CARRBORO
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP**

III-B-1 Transportation Improvement Program

Town staff will continue to implement planning, design, and construction of TIP projects. Town staff will also continue review of the SPOT 4.0 prioritization process for the FY 18-27 TIP.

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 4.0 prioritization process for the FY 18-27 TIP

Previous Work

The Wilson Park Multi-use Path (U-4726-DF) is a recently-completed TIP project. Projects currently underway include Morgan Creek Greenway Phases 1 and 2 (EL-4828), Homestead- Chapel Hill High School Multi-use Path (U-4726-DE), the Rogers Road Sidewalk (U-4726-DD), and Bicycle Loop Detectors (U-4726-DF). All of these projects should be under construction or nearing it when the 2016-17 fiscal year begins on July 1.

Proposed Activities

Projects currently underway include Morgan Creek Greenway Phases 1 and 2 (EL-4828), Homestead Chapel Hill High School Multi-use Path (U-4726-DE), the Rogers Road Sidewalk (U-4726-DD), and Bicycle Loop Detectors (U-4726-DF). Planning and design of the S. Greensboro St. sidewalk (U-4726 dx) and Jones Creek Greenway (C-5181) projects should be underway by the beginning of FY 2016-2017.

Products

1. Plans for the South Greensboro Street sidewalk project and Jones Creek Greenway
2. Review comments on the draft STIP

Relationship to other plans and MPO activities

2016-2022 TIP, 2045 MTP, STP-DA table, Orange County Bus and Rail Investment Plan

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: 80 hours

III-C-1 Title VI

MPO staff identified a Title VI plan as a FY 2013 focus area. The Town will contribute as needed to the development of this plan and discuss as needed Title VI issues.

Objectives

To assist the MPO as needed in developing a Title VI plan that ensures no MPO activities result in discrimination on the basis of race, color, and national origin.

Previous Work

No previous MPO-related work by the Town on Title VI can be identified at this time.

Proposed Activities

1. Coordinate with the MPO as needed to formulate a Title VI plan

TOWN OF CARRBORO

TASK DESCRIPTIONS & NARRATIVES

FY 2016-2017 UPWP

Products

1. Title VI plan

Relationship to other plans and MPO activities

The goals of this plan may relate to the Environmental Justice and Limited English Proficiency plans

Proposed budget and level of effort

60 percent of work to be completed by Transportation Planner

30 percent of work to be completed by Planning Administrator

10 percent of the work to be completed by the GIS Analyst. Local staff hours: 10 hours

III-C-2 Environmental Justice

MPO staff created an Environmental Justice report in 2015 as part of the federal re-certification process. The Town will contribute to implementation of this plan and discuss Environmental Justice issues as needed.

Objectives

To assist the MPO as needed in implementing the Environmental Justice plan that ensures equity in MPO planning processes.

Previous Work

No previous MPO-related work by the Town on Environmental Justice can be identified at this time.

Proposed Activities

1. Coordinate with the MPO as needed to implement the Environmental Justice plan

Products

1. Meeting attendance
2. Inclusion of environmental justice as an aspect of project prioritization

Relationship to other plans and MPO activities

The goals of this plan may relate to the Title VI and Limited English Proficiency plans

Proposed budget and level of effort

60 percent of work to be completed by Transportation Planner

30 percent of work to be completed by Planning Administrator

10 percent of the work to be completed by the GIS Analyst. Local staff hours: 10 hours

III-C-4 Planning for the Elderly and Disabled

The Town will research Americans with Disabilities Act standards and guidelines to inform planning efforts

Objectives

To continue efforts to emphasize the planning, development, evaluation, and reevaluation of transportation facilities and services for the elderly and disabled.

Previous Work

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

Throughout the year staff responds to disabled and elderly citizen concerns regarding the transportation system, primarily related to paratransit and accessibility of infrastructure. Development plans are reviewed for compliance with ADA standards.

Proposed Activities

1. Review draft Public Rights-of-Way Guidelines from the U.S. Access Board for implications for Carrboro transportation projects
2. Continue a special study undertaken by a subcommittee of the Transportation Advisory Board to evaluate pedestrian safety in the downtown area, and to identify any additional measures needed to ensure pedestrian safety on public sidewalks during construction
3. Conduct walkability audit of downtown Carrboro as part of the Parking Plan

Products

1. Report to the Board of Aldermen any recommendations relating to the subcommittee's findings and potentially text amendments to the Land Use Ordinance
2. Summary of walkability audit findings

Relationship to other plans and MPO activities

Recognition of ADA-related needs in urban transportation is required by FHWA and FTA regulations.

Proposed budget and level of effort

60 percent of work to be completed by Transportation Planner

25 percent of work to be completed by Planning Administrator

15 percent of the work to be completed by the GIS Analyst. Local staff hours: 20 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, and assist as needed in ensuring accordance with the Public Involvement Policy.

Objectives

To provide opportunities for the public to contribute to the planning of local and regional transportation facilities, and to review and assist as needed with the Public Involvement Policy.

Previous Work

The Town has held citizens' informational workshops on many of its TIP projects under development the last few years. The Town coordinates with the MPO on public involvement for the MTP and TIP and with Chapel Hill Transit on an annual transit forum.

Proposed Activities

1. Public involvement activities as needed

Products

1. Summaries from public input workshops

Relationship to other plans and MPO activities

Public Involvement Policy, MTP

TOWN OF CARRBORO TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP

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: 40 hours

III-D-3 Special Studies

Town staff will continue to conduct special studies related to local transportation issues, with a particular focus toward completing the Parking Plan. The Parking Plan will include robust data collection on parking utilization, access, and opinions; analysis of parking policies; projection of future supply and demand; and recommendations for strategies and investments to contribute to sound management of public and private parking. This will provide useful data for both the Town and MPO. In addition, Town staff will review of various transportation-related plans, policies and standards to determine a process and schedule for needed updates.

Objectives

To complete the comprehensive Parking Plan and develop implementation strategy. Town staff will also develop a process and schedule for prioritizing and updating transportation-related plans, policies and standards.

Previous Work

In the past several years, the Town has engaged in transportation-related studies such as the Comprehensive Bicycle Master Plan, the Bolin and Morgan Creek Greenway Conceptual Master Plans, the Safe Routes to School Action Plan, the Oak-Poplar Neighborhood Traffic Circulation Study, and the West Main Street Road Diet Study. The Town is currently working with a consultant to begin a Parking Plan for Carrboro, which will continue into the next fiscal year.

Proposed Activities

1. Oversight of the development of the Parking Plan
2. Develop implementation strategy for recommendations from Parking Plan
3. Review transportation-related plans, policies and standards (Safe Routes to School Action Plan, Comprehensive Bicycle Master Plan, Bolin Creek Greenway Conceptual Plan, Physical Activity Plan, Climate Action Plan, etc.)
4. Determine a process and schedule for updating necessary plans

Products

1. Parking Plan
2. Data for use by MPO
3. Implementation strategy for Parking Plan recommendations
4. Process and schedule for updating transportation-related plans, policies, and standards

Relationship to other plans and MPO activities

2045 MTP, CMP

Proposed budget and level of effort

Some work will be completed by a consultant chosen through a RFP process

75 percent of work to be completed by Transportation Planner

15 percent of work to be completed by Planning Administrator

10 percent of work to be completed by the GIS Analyst. Local staff hours: 70 hours

**TOWN OF CARRBORO
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP**

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.

Previous Work

Similar to proposed activities described below

Proposed Activities

1. Attend and participate in MPO Board and TC meetings
2. Staff development through professional training courses, seminars, and conferences
3. Facilitate local Transportation Advisory Board meetings by creating agendas, minutes, and staff reports
4. Prepare materials and present to the local elected officials related to local and regional transportation planning topics
5. Attend and participate in MPO subcommittee meetings

Products

1. Staff reports for Board of Aldermen and advisory board meetings

Relationship to other plans and MPO activities

See objectives and proposed activities.

Proposed budget and level of effort

75 percent of work to be completed by Transportation Planner

24 percent of work to be completed by Planning Administrator

1 percent of work to be completed by the GIS Analyst. Local staff hours: 230 hours

Town of Chapel Hill
Task Funding Table and Supporting Documents

Town of Chapel Hill

	Task Description	STP-DA 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 Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$0	\$0	\$0	\$0	\$271	\$271	\$2,169	\$0	\$0	\$0	\$271	\$271	\$2,169	\$2,711
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	\$2,040	\$8,161	\$0	\$0	\$3,422	\$3,422	\$27,378	\$0	\$0	\$0	\$5,463	\$3,422	\$35,539	\$44,424
11	Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Bike & Ped. Facilities Inventory	\$1,496	\$5,986	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,496	\$0	\$5,986	\$7,482
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan	\$0	\$0			\$0	\$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 L RTP	\$1,681	\$6,725	\$0	\$0	\$722	\$722	\$5,775	\$0	\$0	\$0	\$2,403	\$722	\$12,500	\$15,625
10	Transit Element of the L RTP	\$1,681	\$6,725	\$0	\$0	\$722	\$722	\$5,775	\$0	\$0	\$0	\$2,403	\$722	\$12,500	\$15,625
11	Bicycle & Ped. Element of the L RTP	\$5,865	\$23,461	\$0	\$0	\$1,002	\$1,002	\$8,017	\$0	\$0	\$0	\$6,867	\$1,002	\$31,478	\$39,347
12	Airport/Air Travel Element of L RTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of L RTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of L RTP	\$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	\$879	\$3,514	\$0	\$0	\$1,770	\$1,770	\$14,162	\$0	\$0	\$0	\$2,649	\$1,770	\$17,676	\$22,095
17	Congestion Management Strategies	\$560	\$2,242	\$0	\$0	\$1,055	\$1,055	\$8,439	\$0	\$0	\$0	\$1,615	\$1,055	\$10,681	\$13,351
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	\$0	\$0			\$0	\$0	\$0							
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$862	\$862	\$6,898	\$0	\$0	\$0	\$862	\$862	\$6,898	\$8,623
III-A	Planning Work Program	\$0	\$0			\$0	\$0	\$0							
1	Planning Work Program	\$1,083	\$4,332	\$0	\$0	\$444	\$444	\$3,553	\$0	\$0	\$0	\$1,527	\$444	\$7,885	\$9,856
III-B	Transp. Improvement Plan	\$0	\$0			\$0	\$0	\$0							
1	TIP	\$2,073	\$8,291	\$0	\$0	\$825	\$825	\$6,600	\$0	\$0	\$0	\$2,898	\$825	\$14,891	\$18,614
III-C	Civil Rgts. Cmp./Otr. Reg. Reqs.	\$0	\$0			\$0	\$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
III-D	Incidental Plng./Project Dev.	\$0	\$0			\$0	\$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	\$4,974	\$19,895	\$0	\$0	\$1,795	\$1,795	\$14,362	\$0	\$0	\$0	\$6,769	\$1,795	\$34,257	\$42,821
4	Regional or Statewide Planning	\$1,912	\$7,648	\$0	\$0	\$1,317	\$1,317	\$10,536	\$0	\$0	\$0	\$3,229	\$1,317	\$18,184	\$22,730
III-E	Management & Operations														
1	Management & Operations	\$4,555	\$18,221	\$0	\$0	\$2,942	\$2,942	\$23,536	\$0	\$0	\$0	\$7,497	\$2,942	\$41,757	\$52,196
Totals		\$28,800	\$115,200	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$45,950	\$17,150	\$252,400	\$315,500

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP**

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 CMS, MTP, CTP, TIP, SPOT/Prioritization, traffic counts, bicycle and pedestrian counts and inventory, transit routes, land use, traffic analysis zones, socio-economic and demographic trends, and environmental factors. The Town mapping and spatial GIS product will support the MPO overall GIS and geo-spatial management system. Also, the MPO data and GIS integration will serve as a platform for maintaining and updating of data in GIS format.

Objectives:

1. To provide maps for use in various MPO planning activities;
2. Update base maps
3. Update and maintain geo-spatial maps
4. Provide mapping support for Community Viz, modeling, MTP, CTP, etc.;
5. Main GIS-Online and,
6. To maintain updated geospatial information for transportation analyses.

Previous Work:

The Town has prepared mapping for various MPO activities such as the 2040 LRTP, MTIP Regional Priority project Lists, 2009-15 MTIP, functional classification based on the 2000 Census, MPO urbanized area maps, MAB, etc.

Proposed Activities:

1. Collect updated geospatial information;
2. Monitor development of MPO on-line GIS system;
3. Create files and maps containing MPO transportation information; and,
4. Coordinate the development of the Community Viz 2.0 platform for use in development of 2045 MTP.

Products/Deliverables:

1. Maps for various MPO planning activities;
2. Region-wide GIS files;
3. MPO Enterprise GIS;
4. Geo-spatial mapping;
5. Update count maps
6. ArcGIS Online; and,
7. Data Management System.

Relationship to Other Plans and MPO Activities:

GIS data will be used in many MPO activities such as the Triangle Regional Model, Metropolitan Transportation Plan (MTP), Comprehensive Transportation Plan (CTP), the Congestion Management Program (CMP) Card, Functional classification update, TIP Regional Priority List, MTIP development, NCDOT SPOT, land-use scenario, environmental layers, and other mappings to support the MPO-LPA transportation planning activities.

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

Task will be undertaken by transit planner, long range transportation planner, transportation interns and supervised by the division manager.

**TOWN OF CHAPEL HILL
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP**

Task II-A-12: Bicycle and Pedestrian Facility 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 the development of the Bicycle and Pedestrian element of the 2045 MTP as well as assisting in the preparation of the Mobility and Connectivity Plan. It will also allow the Town to more efficiently program funding from the STPDA program and prepare requests for TIP projects.

Objectives:

1. To provide inventories of bicycle and pedestrian facilities for use in various MPO planning activities;
2. Update base maps of bicycle and pedestrian networks.
3. Provide network information for the TRM;

Previous Work:

The Town has maintained a database of bicycle and pedestrian facilities.

Proposed Activities:

5. Collect updated data on bicycle and pedestrian facilities;
6. Monitor new construction and incorporate into base data;
7. Create files and maps containing MPO transportation information; and,

Products/Deliverables:

8. Updated database

Relationship to Other Plans and MPO Activities:

More accurate bicycle and pedestrian networks will assist in the preparation of the 2045 MTP and related networks. This data will also assist the Town's ongoing efforts to develop a Mobility and Connectivity Plan. Development of TIP projects will also be improved with accurate bicycle and pedestrian networks.

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

Task will be undertaken by long range transportation planner, transportation interns and supervised by the division manager.

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. Highway analysis will involve the use of results of the Triangle Regional Model (TRM) to assess future travel behavior and identify unmet needs. Performance measures will be established for evaluating anticipated level of congestion. Different combinations of these roadway widening and construction of new facilities will be analyzed to find the alternative that best meets the MTP's Goals and Objectives and targets, and meets the fiscal constraint requirement. Each alternative will characterize a one or more emphasis area such as new roadways, transit intensive, etc. The highway element of MTP will utilize analysis from the 2040 Comprehensive Transportation Plan (CTP) which will likely have a different set of constraints (e.g., no fiscal constraint).

Objectives:

1. To identify areas of highway deficiency based on projected roadway volumes and level

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of service;

1. Evaluate alternative strategies to address projected congestion;
2. To develop a series of highway alternatives, including capacity expansion and new construction.

Previous Work:

1. 2035 and 2040 LRTP/MTP;
1. Travel demand forecast; and,
2. Capacity deficiency analysis.

Proposed Activities:

1. Establish evaluation criteria;
2. Develop key data for roadway performance;
3. Generate roadway projects and alternatives;
4. Evaluate roadway projects and alternatives; and,
5. TAC and public comments on alternatives and draft MTP.

Products/Deliverables:

3. Preferred highway element option;
4. Highway MTP map and,
5. Key data for highway projects.

Relationship to Other Plans and MPO Activities:

Before the highway 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 2040 CTP will be important input to this task.

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

Task will be undertaken by transit planner, long range transportation planner, transportation interns and supervised by the division manager.

Task II-B-10: Transit Element of MTP

The Town of Chapel Hill will assist and support the MPO on the evaluation of transit elements of the Comprehensive Transportation Plan and the 2045 LRTP. Transit evaluate 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 MTP Goals and Objectives and targets, and meets the fiscal constraint requirement. Each alternative will characterize a one or more emphasis area such as new roadways, transit intensive, etc.

Objectives:

- To identify a list of transit routes, projects and services based on completed transit studies, travel demand and deficiencies;
- To develop a series of transit alternatives (i.e., set of transit routes, projects and services

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with a distinct objective); and,

- 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:

- 2035 and 2040 LRTP/MTP;
- Feasibility studies (regional transit plans , STAC, US 15-501 Transit Corridor and I-40/NC 54 Transit Corridor, Chapel Hill Transit Master Plan, etc.);
- Transit 5-year TDP and master plans;
- Travel demand forecast; and,
- Capacity deficiency analysis.

Proposed Activities:

- Establish evaluation criteria;
- Develop key data for transit services;
- Generate transit projects and alternatives;
- Evaluate transit projects and alternatives; and,
- TAC and public comments on alternatives and draft MTP.

Products/Deliverables:

- Preferred transit element option;
- Transit MTP map and,
- Key data for transit 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 2040 MTP will be important input to this task.

Proposed Budget and Level of Effort :

Task will be undertaken by transit planner, long range transportation planner, transportation interns and supervised by the division manager.

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

The Town of Chapel Hill will participate and assist the MPO in evaluating the bicycle and pedestrian elements of the 2045 MTP. The Town will continue to implement the adopted 2014 Bicycle Plan and incorporation of bicycle elements in to the Mobility and Connectivity Plan. .

Objectives:

1. Update the MTP Bicycle and Pedestrian elements, project descriptions and cost information;
2. Collect public input on bicycle and pedestrian facilities and programs to be included in the 2045 MTP;
3. Update the MTP ancillary planning and program information.
4. Update MTP Bicycle and Pedestrian Element maps; and,
5. Work to implement elements of the MTP Bicycle and Pedestrian elements through the TIP.

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6. Prepare a Chapel Hill Pedestrian Plan.

Previous Work:

1. Preparation of the Bicycle and Pedestrian elements of the 2040 LRTP.
2. 2014 Chapel Hill Bicycle 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;
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.
5. Prepare scope for Pedestrian Plan, prepare RFQ and select consultant.
6. Manage development of the Pedestrian Plan.

Products/Deliverables:

Chapel Hill Pedestrian Plan. Bicycle and Pedestrian elements of the MTP will include project descriptions and demand analysis, assessment of need, maps of regional projects, etc.

Relationship to Other Plans and MPO Activities:

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

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

Task will be undertaken by transit planner, long range transportation planner, transportation interns and supervised by the division manager.

Task II-B-16: Financial Planning

The Town of Chapel Hill will participate and assist the MPO in developing analysis of revenues and expenditures related to the development of the 2045 MTP. The Town will also monitor and evaluate the financial element of the Orange County Transit Plan.

Objectives:

1. Update the estimates of revenue for all transportation funding sources for use in the 2045 MTP.
2. Update estimates of project cost for use in the development of the 2045 MTP.
3. Monitor implementation of the Orange County Transit Plan.

Previous Work:

1. Financial element of the 2040 MTP.
2. Development of initial Orange County Transit Plan financial element.

Proposed Activities:

1. Coordinate with MPO staff on anticipated regional revenues through 2045.
2. Prepare estimates of projects costs for 2045 alternatives.
3. Monitor financial reporting from Triangle Transit for Orange County Transit Plan.
4. Attend quarterly GoTriangle Orange County Transit Plan implementation meetings.

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Products/Deliverables:

2045 Financial Plan and updated Orange County Transit Plan financial element.

Relationship to Other Plans and MPO Activities:

Financial planning activities support the development of the annual PWP, the MPO TIP and the development of the 2045 MTP.

Proposed Budget and Level of Effort (Staff):

Task will be undertaken by long range transportation planner and by the division manager.

Task II-B-17: Congestion Management Strategies

The Town of Chapel Hill work with the MPO to refine the collection and analysis of data related to the ongoing development of congestion management system for the MPO. Using data collected locally and through the efforts of the MPO the Town will prepare information and analysis specific to evaluating congestion in Chapel Hill and develop strategies to address these issues.

Objectives:

1. To identify a areas of congestion within the Town based on collection of count information.
2. Develop strategies to address congested corridors and key intersections;
3. Prepare annual report for Town Council highlighting key issues and proposed recommendations.
4. Coordinate with MPO staff to develop regional CMS.

Previous Work:

1. Coordination with MPO for collection of 2013 based data,
2. Review of draft MPO CMS Report.

Proposed Activities:

1. Coordinate with MPO on collection of data;
2. Provide MPO with locally collected transportation data;
3. Prepare status report for Town of Chapel Hill
4. Support MPO development of MPO CMS

Products/Deliverables:

1. MPO CMS Report
2. Chapel Hill Mobility Report Card Update

Relationship to Other Plans and MPO Activities:

The MPO CMS Report provides an ongoing source of information for local government on current state of the transportation network and identifies key problem areas to be addressed in the development of the MTP and the implementation of the MTP through the TIP.

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 2045 MTP will be important input to this task.

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

Task will be undertaken by long range transportation planner, transportation interns and supervised by the division manager.

Task III-A: Planning Work Program

Administer the Chapel Hill element of the FY 2015-2016 UPWP and prepare and process amendments as needed. Evaluate transportation planning work needs and emphasis areas and prepare the FY 2017 UPWP.

Objective:

To prepare and continually maintain a Unified Planning Work Program (UPWP) that describes all transportation and transportation-related planning activities anticipated within the Town of Chapel Hill and DCHC MPO planning area for the FY 2015-2016. To develop, maintain, and complete the UPWP in conformance with applicable federal, state, and regional guidelines. 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. FY 2015-16 Unified Planning Work Programs.

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 Policy Board.

Expected Work Products:

1. Amendments to the current UPWP as necessary.
2. Development of the FY 2017-18 Unified Planning Work Program (UPWP).

Proposed Budget and Level of Effort (Staff):

Task will be undertaken by long range transportation planner, and the division manager.

Task III-B: Transportation Improvement Program (TIP)

Work with the MPO and NCDOT to develop the next iteration of the STIP and MTIP. 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 STP DA funds.

Objectives:

Provide input to annually developing, amending, adjusting and maintaining the Transportation Improvement Program (TIP) for the metropolitan area. Under this activity, the Town provide input to update and amend the current program of transportation improvement projects (MTIP) that is consistent with the 2040 MTP, STIP, the State Implementation Plan (SIP), EPA Air Quality Conformity Regulations and FHWA/FTA Planning Regulations.

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Previous Work:

Regional Priority List and DCHC Metropolitan Transportation Improvement Programs (MTIP).

Proposed Activities:

1. Develop transportation improvement program information for consideration by the Town Council.
2. Monitor implementation of the 2016-2025 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 next generation of SPOT.
2. Assist and provide support to the LPA regarding STI/SPOT
3. Develop and refine procedures necessary for TIP preparation and amendments as necessary.
4. TIP Amendments and Adjustments as necessary.

Proposed Budget and Level of Effort (Staff):

Task will be undertaken by long range transportation planner, transportation interns and supervised by the division manager.

Task III-D-3 Special Studies

Participate in ongoing special studies.

Objectives:

To provide staff support to special studies that impact the DCHC MPO. .

Previous Work:

1. Staff assistance to US 15-501 South
2. Fordham Feasibility Study
3. I-40 Managed Lane Feasibility Study

Proposed activities:

1. Attend coordination meeting
2. Prepare data on request
3. Provide updates to elected officials

Expected Work Products:

1. Completed special studies.

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

Task will be undertaken by long range transportation planner, transportation interns and supervised by the division manager.

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Task III-D-4: Regional or Statewide Planning

The Town will continue to work with Triangle Transit to implement specific elements of the regional light rail project. The Town will continue to coordinate with Triangle Transit and the MPO on the environmental studies required to secure State and federal funding and to develop appropriate station area land use plans to support the implementation of the project.

Objectives:

1. Coordinate with Triangle Transit to provide input into ongoing environmental studies;
2. Coordinate with UNC Chapel Hill on specific alignment and station development issues.
3. Prepare Chapel Hill Light Rail Station Area Planning Studies
4. Prepare land use plans as necessary at station area sites.

Previous Work:

Coordination with Go Triangle on the Station Area Grant application and the DEIS.

Proposed Activities:

1. Regular participation at project scoping, environmental study and public meetings conducted by the Triangle Transit.
2. Review and comment on various elements of the environmental analysis;
3. Prepare small area plans and other related land use changes at station area locations.

Products/Deliverables:

1. Written comments on project scoping and environmental studies, activities and documents;
2. Updated land use plans.

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 State and federal funding through the TIP.

Completion Date:

These activities are provided as needed throughout the year.

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

Task will be undertaken by long range transportation planner, transportation interns and supervised by the division manager.

Task III-E: Management and Operations

The Town will assist and support the DCHCMPO efforts in complying to the federal 3-C process. The Town of Chapel Hill staff will attend both DCHCMPO and regional meetings. The continuing transportation planning process requires considerable administrative time for attending monthly committee meetings, preparing agendas and minutes to these meetings, training, preparing quarterly progress reports, documenting expenditures for the various planning work items, and filing for reimbursement of expenditures from the 5303 and STP-DA funds account and other Federal Funds.

Objective:

To assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C)

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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:

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 participation in Technical Coordinating Committee (TCC) and the Transportation Advisory Committee (TAC) meetings , providing technical assistance to the TAC, development of the MTIP, 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 Town of Chapel Hill 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.
5. Review and comment on federal and state transportation-related plans, programs, regulations and guidelines pertaining to the Town of Chapel Hill.

Work Product Expected:

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

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

Task will be undertaken by grants manager and the Long Range Division manager.

City of Durham

Task Funding Table and Supporting Documents

City of Durham & GoDurham

	Task Description	STP-DA		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	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
4	Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$400	\$1,600	\$0	\$0	\$8,076	\$8,076	\$64,606	\$5,401	\$5,401	\$43,210	\$13,877	\$13,477	\$109,416	\$136,770
6	Dwelling Unit, Pop. & Emp. Change	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,600	\$0	\$6,400	\$8,000
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	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600	\$0	\$2,400	\$3,000
11	Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Bike & Ped. Facilities Inventory	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan					\$0	\$0	\$0	\$0	\$0	\$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	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
6	Community Goals & Objectives	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
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 LRTP	\$1,400	\$5,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000
10	Transit Element of the LRTP	\$1,000	\$4,000	\$0	\$0	\$326	\$326	\$2,610	\$483	\$483	\$3,862	\$1,809	\$809	\$10,472	\$13,090
11	Bicycle & Ped. Element of the LRTP	\$3,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000	\$0	\$12,000	\$15,000
12	Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of LRTP	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
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	\$2,610	\$7,930	\$7,930	\$63,439	\$8,256	\$8,256	\$66,049	\$82,561
17	Congestion Management Strategies	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400	\$0	\$1,600	\$2,000
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					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$2,610	\$2,610	\$20,878	\$10,058	\$10,058	\$80,462	\$12,668	\$12,668	\$101,341	\$126,676
III-A	Planning Work Program					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	Planning Work Program	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0	\$4,000	\$5,000
III-B	Transp. Improvement Plan					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	TIP	\$3,000	\$12,000	\$0	\$0	\$652	\$652	\$5,219	\$969	\$969	\$7,751	\$4,621	\$1,621	\$24,970	\$31,213
III-C	Cvl Rgts. Cmp./Otr. Reg. Reqs.					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
1	Title VI	\$600	\$2,400	\$0	\$0	\$326	\$326	\$2,610	\$350	\$350	\$2,803	\$1,277	\$677	\$7,813	\$9,766
2	Environmental Justice	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
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	\$326	\$326	\$2,610	\$937	\$937	\$7,494	\$2,263	\$1,263	\$14,104	\$17,630
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-D	Incidental Plng./Project Dev.					\$0	\$0	\$0	\$0	\$0	\$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.	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400	\$0	\$1,600	\$2,000
3	Special Studies	\$2,800	\$11,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800	\$0	\$11,200	\$14,000
4	Regional or Statewide Planning	\$1,500	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500	\$0	\$6,000	\$7,500
III-E	Management & Operations					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
1	Management & Operations	\$800	\$3,200	\$0	\$0	\$5,207	\$5,207	\$41,658	\$2,155	\$2,155	\$17,238	\$8,162	\$7,362	\$62,096	\$77,620
Totals		\$20,700	\$82,800	\$0	\$0	\$17,850	\$17,850	\$142,800	\$28,283	\$28,283	\$226,261	\$66,833	\$46,133	\$451,861	\$564,826

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Task II-A-3 Street System Mileage Change

The City of Durham will update inventory of improvements to municipal street system. Update inventory of signalization on existing major streets to provide accurate inputs for the Triangle Regional Model (TRM). The City will monitor changes in street mileage systems from the previous year and summarize inventory by functional classification. The City of Durham will obtain from the NCDOT Division 5 offices updated resurfacing information and compile in database, improvements to the state highway system, whether planned, underway, or completed. Also, the City will compile and maintain records for its municipal street system, including providing the certified Powell Bill Program maintained during this fiscal year. The product of this task will feed into the MPO Geo-Spatial database and AGOL.

Objectives

The objective is that, periodically or as changes or additions to the major street system occur, street inventory will be updated, made current and provided to the LPA.

1. Monitor the street system mileage changes in Durham;
2. Periodic update and reporting to the MPOs; and
3. Evaluate trends of street mileage.

Previous Work

1. Durham street system monitoring.
2. Street system analysis of Durham portion of HERE Street Network; and
3. Street system update of CMP and CTP networks.

Proposed Activities

1. Power Bill update.
2. Summarize and tabulate street system by area type and functional classification.
3. Develop historic trends of Durham street system in Durham.
4. Prepare comparative analysis of Durham street system with CTP and HERE street networks.
5. Perform adjustments as necessary.

Products

1. Summary reports of Durham street system information for the MPO Surveillance of Change Report.
2. Power Bill update and reporting.
3. Evaluation of street system targets for CMP, MTP, MRC

Relationship to Other Plans and MPO Activities

Street system mileage changes data will be used in various stages of the CTP and the 2045 MTP update.

Proposed Budget and Level of Effort

Tasks will largely be undertaken by City staff with interns help.

Task II-A-5: Transit System Data

The City of Durham will coordinate with GoDurham in the update of transit, including but not limited to network attributes, service characteristics, evaluation of transit performance, i.e. ridership, boarding-alighting, on-time performance, etc.

Objectives

1. Maintain transit system data for MPO transit planning
2. Maintain update information for model update/validate, evaluation of JARC/New Freedom programs, MTIP project prioritization, etc

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3. To evaluate and monitor transit services; and,
4. To fulfill FTA reporting requirements, (NTD or Section 15).

Previous Work

1. GoDurham ridership and on-time performance report.
2. 2014 NTD5 transit data.
3. Boarding and alighting counts
4. 2014 transit system data for CMS and Mobility Report Card
5. Transit systems data for modeling enhancement and validation

Proposed Activities

1. Develop annual database for GoDurham transit operation and service characteristic demand;
2. Consolidate and develop bus stop standards;
3. Create reports on system performance by route; and,
4. Prepare reports to fulfill FTA requirements 5307 allocation and provide to the LPA.
5. Maintain transit database and GIS information. Collect transit performance indicators

Products

The product of this task will largely feed into the MPO GIS and data management system, modeling activities, CMP, MRC, MPO Performance measures, etc. Other products include:

1. Summary reports of transit system performance; and,
2. Reports to fulfill FTA requirements
3. MPO transit GIS layer
4. Surveillance of Change report

Relationship to Other Plans and MPO Activities

Transit system data will be used to influence route changes and service expansions. Transit system data will also be used in the development of the Metropolitan Transportation Plan (MTP), Congestion Management Process, Mobility Report Card, STP-DA funding allocation, and transit master plan, etc.

Proposed budget and level of effort

Work for City of Durham will be performed by the Senior Transportation Planner.

Task II-A-6: Dwelling Unit, Population, and Employment Change

The City will routinely compile an inventory of dwelling units, population, and employment to determine needed changes in the City's current and projected demands. City staff will review new developments to assess impacts to the 2040 MTP LRTP, the model update, and transportation project development. Staff will monitor changes in dwelling units and employment within the City and identify and evaluate to determine accuracy and consistency with the socio-economic forecast. Staff will review and tabulate development review data, building permit data, Census data (including American Community Survey and CTPP), local parcel, zoning, tax data records, and Employment Analyst data as part of this task.

Objectives

1. Check consistency between development proposal and socio-economic/ Demographic forecasts.
2. Maintain up-to-date socio-economic and demographic spatial data
3. Monitor development reviews and proposal consistent with the TAC directives and resolution.
4. To monitor changes in dwelling units, population, and employment change; and,
5. To provide current data for MPO planning activities.

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Previous Work

Previous work includes but not limited to dwelling unit, population, development data and employment data gathering and monitoring. These pieces of data are integral to many planning and modeling activities.

Proposed Activities

1. Review new developments and certificates of occupancy for dwelling unit, population, and employment changes;
2. Obtain data from the Census, InfoUSA, ESC, and local governments;
3. Compare changes to the socio-economic forecast; and,
4. Develop the Data Automation/Integration and Management System to streamline this task.

Products

1. Summary reports of socio-economic data;
2. Updated socio-economic data for use in the Triangle Regional Model and other MPO planning activities; and,
3. AGOL socio economic and demographic data..

Relationship to Other Plans and MPO Activities

Dwelling unit, population, and employment change data will be used in the Triangle Regional Model. The Triangle Regional Model is used in many MPO planning activities including the Metropolitan Transportation Plan (MTP), land-use modeling, the Congestion Management Progress and Mobility Report Card.

Proposed Budget and Level of Effort

Tasks will be undertaken by LPA and municipal staff.

Task II-A-10: Mapping

This task will include but not limited to mapping of and updates to 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, and environmental factors. The City will transmit its mapping and GIS products to the LPA for including and update of the MPO AGOL and geo-spatial database.

Objectives

1. To provide maps for use in various MPO planning activities; and,
2. To maintain updated geospatial information for transportation analyses.

Previous Work

The City will continue to update mapping for various MPO activities such as the 2045 MTP, CTP, CMP, MRC, MTIP, collector street, etc.

Proposed Activities

1. Updated geospatial information for City of Durham;
2. Assist in the Integration of the City's geospatial information into region-wide geospatial information;
3. Create files and maps containing MPO transportation information; and,
4. Update the MPO AGOL with City's GIS shapefiles.

Products

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1. Maps for various MPO planning activities;
2. Check, verify and update City's element of the Region-wide GIS files; and,
3. Update the City's portion of the MPO AGOL.

Relationship to Other Plans and MPO Activities

GIS data will be used in many MPO activities such as the Triangle Regional Model, Metropolitan Transportation Plan, the Congestion Management Process, and Mobility Report Card, Functional classification update, MTIP development, SPOT project prioritization, and other MPO transportation planning activities.

Proposed Budget and Level of Effort

Tasks will be undertaken by City of Durham staff.

Task II-A-12: Bicycle and Pedestrian Facilities Inventory

The City of Durham will conduct inventories of bicycle and pedestrian facilities as part of various regional planning activities. The proposed inventory will provide accurate inputs for the travel model update as well as help identify future bicycle and sidewalk project needs, guide bicycle and pedestrian improvement planning, and support specific bike and sidewalks projects. In addition, this work will help Lead Planning Agency staff when processing materials for state/federal grant applications and identifying facility improvement requests.

Objectives

1. To collect information on existing and proposed bicycle and pedestrian facilities throughout the City of Durham;
2. To monitor traffic growth and provide continuous updates on potential bicycle and pedestrian facilities;
3. To monitor NCDOT, MPO and local project work for opportunities for improvements to bicycle and pedestrian facilities, e.g. spot improvements, street resurfacings, etc.; and,
4. To ensure that bicycle and pedestrian facility implementation occurs in compliance with local, state and federal guidelines.

Previous Work

1. Collected bicycle and pedestrian facility information for CMAQ, TAP and STP-DA grant processes;
2. Collected bicycle and pedestrian facility information for planning studies, such as the Old Durham-Chapel Hill Rd Bicycle/Pedestrian Feasibility Study; and,
3. Coordinated with NCDOT and other agencies regarding potential bicycle and pedestrian facility improvements, as incidental or independent projects.

Proposed Activities

1. To collect digital images of various planned bicycle and pedestrian routes;
2. Collect bicycle and pedestrian facility information for CMAQ, TAP and STP-DA grant processes;
3. Collect bicycle and pedestrian facility information for regional planning studies; and,
4. Coordinate with NCDOT and other agencies on potential bicycle and pedestrian facility improvements, as incidental or independent projects.

Products

Work products will include digital images, maps and other visual representations of facilities, as well as indirect products related to plans, communications, and project applications.

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Relationship to Other Plans and MPO Activities

The facility inventory will be used for regional planning efforts, grant application processes, and other regionally coordinated activities.

Proposed Budget and Level of Effort

Tasks will largely be undertaken by regular City staff.

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

The City of Durham will assist and support the MPO in the development of Community Viz. 2.0 as well as in the development of demographic and socio-economic forecasts. Forecasts will be generated for County control totals and traffic analysis zones. Forecasts will be made consistent with the City and County land use plans and in cooperation with the City/County local Planning Department.

Objectives

1. To assist the DCHC MPO and the regional partners in developing regionally consistent forecasts of future year socio-economic and demographic projections and forecasts.
2. Assist the MPO in develop future forecast for population, dwelling units, households, income, vehicle ownership, university beds, employment, census, etc.
3. Assist and support the MPO and the regional stakeholders in the development of land-use scenario planning activities.

Previous Work

1. Work has been ongoing by the City staff, the LPA staff members, DCHC MPO member agencies, and regional partners throughout 2012-present to develop a consistent regional methodology for constructing future year land use and socio-economic forecasts; and,
2. Preliminary forecasts were finalized in early summer 2012

Proposed Activities

1. Continue to work with LPA and DCHCMPO partners to collect future land use information and to develop and check future year forecasts;
2. Acquire benchmark data for evaluating correctness of future year forecasts, and perform the evaluation;
3. Develop maps, tables and other presentation materials for review of the forecasts by elected officials and the public; and,
4. Coordinate public review of the future year forecasts and seek formal adoption of the forecasts by the DCHC MPO Board.

Products

1. Forecasts of land use and socio-economic data for use in the 2045 MTP, Environmental Justice (EJ)/Limited English Proficiency (LEP) demographic profiles; and,
2. Presentation materials based on those forecasts for public review.

Relationship to Other Plans and MPO Activities

Future year forecasts are an essential element in preparing analyses of alternatives for the 2045 MTP and for all land use and transportation modeling activities.

Proposed budget and level of effort

Work for City of Durham will be performed by the Senior Transportation Planner.

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Task II-B-6: Community Goals and Objectives

The City will assist the MPO in the re-evaluation community goals and objectives for the 2045 Metropolitan Transportation Plan (MTP). The process of formulating and re-evaluating goals will begin with visioning exercise. The City will conduct public meetings as needed to assess community vision in terms of transportation, land use, growth, quality of life, etc. The task will involve taking MPO Goals and Objectives to the City Council for endorsement. The expected work products will be adopted goals and objectives and targets, and a policy framework for achieving the goals.

Objectives

1. To develop updated set of Goals/Objectives and measures, and targets; and,
2. To involve citizens in a visioning process help update the Goals and Objectives, and targets.
3. Develop policy statements for the 2045 MTP
4. Develop measures for measuring how goals, objectives and targets are met.

Previous Work

1. Goals and Objectives and targets in 2040 MTPP; and,
2. List of citizens and leaders who might be interested in participating in the process to update the Goals and Objectives and targets.

Proposed Activities

1. Conduct public workshops to complete citizen visioning process;
2. Develop community visions
3. Re-evaluate Goals, Objectives and Targets and develop draft goals, objectives, measures and targets
4. Conduct public workshops, meetings and hearing to receive input on proposed Goals and Objectives and targets; and,
5. Recommend and adopt Goals and Objectives, measures and targets.

Products

1. Citizen transportation vision; and,
2. Updated Goals and Objectives and targets.

Relationship to Other Plans and MPO Activities

Updating the Goals and Objectives and targets will be integrated with City's land-use policies and transportation vision.

Proposed Budget and Level of Effort

City of Durham staff.

II-B-9: Highway Element of the LRTP

The MPO will begin evaluation 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 establishment of performance measures for evaluating highway alternatives. 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,

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3. To develop key data for each highway project such as capacity, length, alignment, cost, implementation year, etc.

Previous Work

1. 2040 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 2040 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. Preferred highway element option
2. Key data for highway projects

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

Work for City of Durham will be performed by the Senior Transportation Planner.

II-B-10: Transit Element of the LRTP

The City of Durham will assist and support the MPO on the evaluation of transit elements of the Comprehensive Transportation Plan and the 2045 MTP. Transit evaluate 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 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

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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. 2040 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
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 CTP.

Products

1. Preferred transit element option
2. Transit CTP map
3. Key data for transit 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

Work for City of Durham will be performed by the Senior Transportation Planner.

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

The City of Durham will participate and assist the MPO in evaluating 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 Comprehensive Pedestrian Plan and Bicycle Plan. The City of Durham will commence work on a Complete Streets Implementation Plan.

Objectives

1. Update the MTP/CTP Bicycle and Pedestrian elements, project descriptions and cost information;
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.

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Previous Work

1. Preparation of the Bicycle and Pedestrian elements of the 2035 LRTP
2. Durham Comprehensive Bicycle Plan
3. Durham Comprehensive Pedestrian 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. Create Complete Streets Implementation Plan;
5. Coordinate planning activities between local and regional agencies for bicycle, and pedestrian, trail/greenway and TDM initiatives.

Products/Deliverables

Bicycle and Pedestrian elements of the MTP and CTP will include project descriptions and demand analysis, assessment of need, maps of regional projects, etc. Complete Streets Implementation Plan.

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, in order to capture all proposed projects within the MPO.

Proposed Budget and Level of Effort (Staff or Consulting)

Work for City of Durham will be performed by the Senior Transportation Planner.

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

The City will continue to work with the MPO, NCDOT Rail Division and CAMPO regarding rail transportation in the Triangle. Work proposed includes but is not limited to participating in rail studies, plans update and improvement program, and rail, relationship to the MPO Metropolitan Transportation Plan and Comprehensive Transportation Plan, programmatic impacts, etc. Also, task will include planning associated with commuter and light rail efforts.

Objectives

To ensure linkages of rail transportation with MTP and CTP activities.

Previous Work

Grade separation studies in Durham

Proposed Activities

Collaboration with the MPO and NCDOR regarding rail activities, plans update and programming Working on rail element of the STI.

Products

Relationship to Other Plans and MPO Activities

Proposed budget and level of effort

Work for City of Durham will be performed by the Senior Transportation Planner.

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Task II-B-17: Congestion Management System

The City will continue to assist the LPA in updating the CMP, MRC and performance measures. This task also includes management, operation and administration of the of the MPO TDM programs.

Objectives

Update MPO CMP, including CMP work plan, strategies, congestion mitigation measures and monitoring system

Implementation and monitoring of TDM program and MPO TDM hot spots

Development of a multi MPO modal Congestion Plan

Linkage of CMP with MTP; and,

Linkage of CMS with operation and MTIP prioritization.

Previous Work

1. DCHC MPO Congestion Management System Report;
2. Mobility Report Card;
3. Turning movement counts (i.e., intersection traffic counts);
4. ADT counts (traffic volume counts);
5. Screenline counts for the TRM;
6. AADT counts from NCDOT (traffic volume counts);
7. Bicycle counts from bicycle plans;
8. Pedestrian counts from pedestrian plans; and,
9. Transit ridership data from transit operators.

Proposed Activities

Assist in the development of performance measures for evaluating congestion that are appropriate for the MPO;

Collect data and apply models to identify causes and locations of traffic bottlenecks (data will include different modes);

Document the study results in a State of the Systems report.

Products

1. Update of the CMP and MRC
CMP state of System report
2. Reports for system components, including performance measures, congestion definition, transportation data and congestion identification, proposed congestion mitigation measures and policies, and a State of the System Report; and,
3. QA/QC of City MRC and CMP data analysis and mapping.

Relationship to Other Plans and MPO Activities

The CMP will be linked to the CMAQ project selection, STP-DA and TIP project prioritization, the Triangle Regional Model (TRM) and several tasks that support the Surveillance of Change.

Proposed budget and level of effort

Work for City of Durham will be performed by the Senior Transportation Planner.

Task III-A: Planning Work Program

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Administer the FY 2017 Unified Planning Work Program (UPWP) and prepare and process amendments as needed. Evaluate transportation planning work needs and emphasis areas and prepare the FY 2018 UPWP.

Objective

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. To develop, maintain, and complete the UPWP in conformance with applicable federal, state, and regional guidelines. To prepare UPWP amendments as necessary to reflect any change in programming or focus for the current fiscal year.

Previous Work

1. Unified Planning Work Programs from prior fiscal years
2. Amendments to the UPWP in prior fiscal years

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 2018 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

Work for City of Durham will be performed by the Senior Transportation Planner.

III-B-1: Transportation Improvement Plan

Amend TIP/ STIP as needed. Continue to develop FY 2018-2027 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 STPDA, 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 2040 Metropolitan Transportation Plan, STIP, the State Implementation Plan (SIP), EPA Air Quality Conformity Regulations and FHWA/FTA Planning Regulations.

Previous Work

Regional Priority List and DCHC Transportation Improvement Programs.

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Proposed Activities

1. Develop transportation improvement projects for consideration by the City Council.
2. Develop 2018-2027 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.
2. Assist and provide support to the LPA regarding STI
3. 2018-2027 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

Work for City of Durham will be performed by the Senior Transportation Planner.

III-C-1: Title VI

The City will assist and support the MPO's Title VI work program and activities. The City of Durham will continue to provide an update of Civil Rights statistics report to determine compliance of civil rights provisions.

Objectives

To ensure that the MPO's planning activities are in compliance with Title VI.

Previous Work

1. Environmental justice analyses for project development and plan development.
2. Development of MPO Title VI work program and activities.

Proposed Activities

1. Environmental Justice analyses as needed.
2. Review of MPO Title VI plan.

Products

1. MPO Title VI work program
2. Environmental justice analyses.

Relationship to other plans and MPO activities

Compliance with Title VI is a requirement for all MPO activities.

Proposed budget and level of effort

Work for City of Durham will be performed by the Senior Transportation Planner.

Task III-C-2: Environmental Justice

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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.

Objectives

To ensure that minority and low-income communities are:

1. Not adversely affected by transportation projects and policies;
2. Treated equitably in the provision of transportation services and projects; and
3. Provided full opportunity for participation in MPO transportation planning and decision-making process.

Previous Work

1. Demographic profiles based on 2000 Census
2. 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.

Proposed Activities

1. Develop Environmental Justice mailing list;
2. Conduct EJ outreach program for MTIP, MTP, and other planning activities.
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;
5. Review existing public outreach and involvement plan;
6. Develop a protocol for responding to issues and concerns regarding Environmental Justices in general and Hispanic population in particular in the City; and,
7. Conduct analysis as needed regarding equitable distribution of transportation system benefits and costs among all socio-economic groups throughout the City of Durham.

Products

1. Updated maps utilizing information from the 2010 Census and 2010 base year data;
2. Increased involvement of low-income and minority populations in the transportation planning process;
3. Technical assistance memoranda, reports, and workshops as needed;
4. Protocol for responding to issues and concerns regarding Environmental Justice; and,
5. MPO Environmental Justice mailing list and ADA mailing list.

Proposed Budget and Level of Effort

Tasks will be undertaken by the City staff.

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.

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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
3. Newspaper 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. Update and maintenance of address of stakeholders.
2. Update and maintenance of mailing list database
3. 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

Work for City of Durham will be performed by the Senior Transportation Planner.

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,
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/public meetings, especially those conducted by NCDOT.

Proposed Activities

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

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Products

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

Work for City of Durham will be performed by the Senior Transportation Planner.

III-D-3: Special Studies

The City will prepare an update of the Durham Bike and Hike Map

Objectives

To update all content as needed on the 2012 Durham Bike and Hike map, including changes to bicycle facilities and hiking routes, as well as other map content including educational and safety materials and other information.

Previous Work

Previous versions of the Durham Bike and Hike Map were prepared in 2010 and 2012.

Proposed Activities

Proposed activities include the following:

- Task 1: Kickoff meeting and data collection/review.
- Task 2: Development of a draft map.
- Task 3: Final Bike and Hike map
- Task 4: Development of on-line version of map
- Task 5: Printing of map

Products

1. Printed version of Durham Bike and Hike Map
2. On-line version of Durham Bike and Hike Map

Relationship to Other Plans and MPO Activities

Much of the data used for the map will be collected as part of Task II-A-12: Bicycle and Pedestrian Facilities Inventory.

Proposed budget and level of effort

Work for City of Durham will be performed by regular City staff working with a consultant and a volunteer advisory committee.

III-D-4. Regional or Statewide Planning.

The City will continue to coordinate with CAMPO, GoTriangle, NCDOT, DENR, 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 regional transit planning/operation coordination. Statewide planning includes participation in various statewide planning initiatives such as CMAQ Committee, Indirect and Cumulative Impacts of

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Transportation Projects in North Carolina, the State Transportation Plan process, and the Comprehensive Transportation Plan.

Objectives

1. Coordinate with GoTriangle on environmental study.
2. Coordinate with other local jurisdictions on common transportation needs.
3. Provide input to statewide policy issues such as legislative initiatives, NCDOT Strategic Transportation Corridors, STI, etc.

Previous Work

Coordination with GoTriangle, other local jurisdictions, and NCDOT on project, plans, and legislation.

Proposed Activities

1. Participation on GoTriangle committees
2. Participation on Durham-Chapel Hill-Orange Work Group
3. Preparation of memos, letters, etc. on legislative issues.

Products

1. Comments on project scoping, environmental studies, activities, and documents.
2. Memos, letters, etc. on legislative issues.

Relationship to other plans and MPO activities

Regional and statewide planning activities affect the ability of the MPO to accomplish regional transportation goals, implement major transportation projects, and receive funding for projects.

Proposed budget and level of effort

Work for City of Durham will be performed by the Senior Transportation Planner.

III-E-1: Management and Operations

The City will assist and support the DCHCMPO 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, training, preparing quarterly progress reports, documenting expenditures for the various planning work items, and filing for reimbursement of expenditures from STP-DA funds account and other Federal Funds.

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

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.

City of Durham
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP

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

Work for City of Durham will be performed by the Senior Transportation Planner.

Durham County
Task Funding Table and Supporting Documents

Durham County

	Task Description	STP-DA		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 Accidents	\$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	\$132	\$528	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$132	\$0	\$528	\$660
	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														
	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	\$3,483	\$13,930	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,483	\$0	\$13,930	\$17,413
	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 LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Transit Element of the LRTP	\$4,700	\$18,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,700	\$0	\$18,800	\$23,500
	11 Bicycle & Ped. Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of LRTP	\$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	\$380	\$1,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380	\$0	\$1,520	\$1,900
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	\$386	\$1,544	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$386	\$0	\$1,544	\$1,930
	4 Regional or Statewide Planning	\$1,145	\$4,580	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,145	\$0	\$4,580	\$5,725
III-E	Management & Operations														
	1 Management & Operations	\$535	\$2,140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$535	\$0	\$2,140	\$2,675
Totals		\$10,761	\$43,042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,761	\$0	\$43,042	\$53,803

DURHAM COUNTY TASK DESCRIPTIONS & NARRATIVES FY 2016-2017

II-A-6. Dwelling Unit, Population, & Employment Change

Anticipating the beginning of the 2045 Metropolitan Transportation Plan, this task addresses efforts to provide socioeconomic data for the MTP. As needed, County staff will contribute to reviewing the current method of allocating dwelling unit and employment growth – using GIS-based visualization software – to determine how it can be improved for the 2045 MTP.

Objectives

- O1 – Review and improve the current dwelling unit/employment growth estimation methodology.
- O2 – Provide data as needed for estimating dwelling unit and employment change for the 2045 MTP.

Previous work

County staff provided projected growth figures to unincorporated parts of Durham County to MPO. As part of the 2040 MTP process, County staff reviewed dwelling unit and employment growth control totals, employment data tracked by the MPO, place type and development status assignments to be inputted into CommunityViz software, and CommunityViz model output showing distribution of growth.

Proposed activities

- 1. Participate in meetings discussing potential improvements to current estimation methodology (O1)
- 2. Provide suggestions for improving the current estimation methodology (O2)
- 3. Submit data relating to dwelling unit and employment change to MPO staff (O3)

Products

- 1. Input on potential improvements/changes to the current estimation methodology (A1, A2)
- 2. Dwelling unit/employment-related data as needed (A3)

Relationship to other plans and MPO activities

2045 MTP

Proposed budget and level of effort

Majority of work to be performed by a Senior Planner.

II-B-10. Transit Element of the LRTP

County staff is leading the effort for the Station Area Strategic Infrastructure study, which is analyzing the need for infrastructure at the local level, including road, pedestrian, and bicycle infrastructure, around future rail station sites in order to optimize use of the incoming rail system. County staff will also provide data and input for development of a proposed a regional light rail system.

Objectives

- O1 – Develop the Station Area Strategic Infrastructure study.
- O2 – Provide data and input for a proposed regional light rail system between Durham and Chapel Hill.

Previous work

The County has completed existing conditions work for approximately half of the station areas and has completed an assessment of infrastructure needs for the “urban” rail stations sites. County staff has been providing input and data for many years on the proposed light rail system.

Proposed activities

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017**

1. Continue work on the Station Area Strategic Infrastructure study and complete work on the suburban rail station sites, as well as develop cost estimates and financing options for the necessary infrastructure improvements (O1)
2. Provide data and input on the proposed light rail system (O2)

Products

1. Development of the Station Area Strategic Infrastructure study (A1)
2. Demographic and land use data for station areas along the proposed light rail system (A2)

Relationship to other plans and MPO activities

2040 MTP, Durham Bus and Rail Investment Plan, Durham Comprehensive Plan

Proposed budget and level of effort

Majority of work to be performed by a Senior Planner.

II-B-5. Forecast of Data to Horizon Year

County staff will contribute to reviewing the current estimation methodology for forecasting socioeconomic data to the MTP horizon year, in order to determine if any improvements are needed to the methodology. In addition, County staff will begin the preparation of land use models and plans that will better integrate future rail transit and land use development around those future stations.

Objectives

O1 – Improve the process for forecasting socioeconomic data to the MTP horizon year.

O3 – Create land use plans that better integrate future transit options.

Previous work

For the 2040 MTP, the County contributed data and review comments for countywide growth control totals and the CommunityViz allocation of growth estimates within Durham County. County staff has also produced land use plans for selected future rail stations.

Proposed activities

1. Communicate with MPO staff and TCC representatives regarding potential improvements to the growth modeling methodology (O1)
2. In conjunction with MPO and local transportation staff, as well as the regional transit authority, create land use plans for future rail station areas (O2)

Products

1. Feedback on the growth modeling methodology (A1)
2. New land use ordinances for transit-oriented development (A2)

Relationship to other plans and MPO activities

2045 MTP, Durham County Bus and Rail Investment Plan, Durham Comprehensive Plan

Proposed budget and level of effort

Majority of work to be performed by a Senior Planner.

III-A-1. Planning Work Program

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017**

The County will administer the FY 2015-2016 UPWP and prepare and process amendments as needed. It will evaluate transportation planning work needed and emphasis areas and prepare the FY 2016-2017 UPWP. County staff will serve on the UPWP oversight committee for the MPO.

Objectives

- O1 – Process amendments to the UPWP if necessary
- O2 – 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 (O1)
- 2. Prepare Durham County's 2016-2017 UPWP documents and budget (O2)

Products

- 1. Amendment spreadsheets as needed (A1)
- 2. Durham County's 2015-2016 UPWP activities narrative and budget (A2)

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.

Proposed budget and level of effort

Worked to be performed by a Planning Supervisor

III-D-3. Special Studies

County staff will continue to conduct or implement special studies related to local transportation issues.

Objectives

- O1 – Build the CommunityViz 2.0 model
- O2 – Conduct other special studies as needed

Previous work

In the past several years, the County has engaged in transportation-related studies such as the NC-54/I-40 Corridor Study and the Downtown Parking Study, Regional Freight Plan, as well as the original CommunityViz model developed for the 2040 MTP.

Proposed activities

- 1. Work with MPO staffers to build the CommunityViz 2.0 model (O1)
- 2. Conduct other special studies as needed (O2)

Products

- 1. Provision of data and review of model for CommunityViz 2.0 (A1)
- 2. Other special studies as needed (A2)

Relationship to other plans and MPO activities

2045 MTP

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017**

Proposed budget and level of effort

Work to be performed by a Senior Planner

III-D-4. Regional or 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

O1 – Provide input to the regional transit agency

O2 – 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 (O1)
2. Provide input and data to the regional transit agency as requested (O2)

Products

1. Provide staff to regional committees (A1)
2. Provision of demographic and land use data and review of conceptual plans for regional transit as requested (A2)

Relationship to other plans and MPO activities

2045 MTP

Proposed budget and level of effort

Work to be performed by Senior Planners and a Planning Supervisor.

III-E-1. Management and Operations

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

Objectives

O1 – Participate and contribute to MPO-related meetings.

O2 – Adhere to the goals and tasks laid out in the Unified Planning Work Program.

O3 – Ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues.

O4 – Ensure the local transportation advisory board has the information it needs to develop sound recommendations on local and regional transportation issues.

O5 – Improve staff efficiency and knowledge through training sessions and educational materials.

Previous work

Similar to proposed activities described below

Proposed activities

1. Attend and participate in TAC and TCC meetings

**DURHAM COUNTY
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017**

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/communication with County officials and elected officials/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 Planning Supervisor.

Town of Hillsborough
Task Funding Table and Supporting Documents

Town of Hillsborough

	Task Description	STP-DA		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 Accidents	\$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														
	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 LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10 Transit Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of LRTP	\$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	\$23,961	\$95,842	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,961	\$0	\$95,842	\$119,803
	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		\$23,961	\$95,842	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,961	\$0	\$95,842	\$119,803

Hillsborough
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 UPWP

III-D-3. Special Studies

Engineering feasibility study for high priority sidewalk retrofit projects along state roads in Hillsborough city limits consistent with locally adopted plans.

Objectives

- O1 Collect sufficient field data (survey of right of way and topography) to determine whether sidewalk amenities are feasible
- O2 Identify constraints or alternatives
- O3 Prioritization of projects based on feasibility
- O4 Ballpark construction cost estimates

Previous Work

The Cornelius Street Plan identifies walkability as an important improvement along the corridor. As a second phase of the FY16 project, analysis will continue in the Cornelius Corridor to determine feasible locations for pedestrian improvements. The FY16 project was limited to the area west of NC 86. This project will include the NC 86 intersection and move east along US 70 Bypass toward St. Mary's Road as funds allow (Orange High School Road is likely terminus).

Proposed Activities

Identify a scope of work that provides a reasonable project.
 Complete the work consistent with the objectives listed above.

It is the town's intent to continue its relationship with the firms that completed the FY16 project.

Products

Survey maps and written documents addressing the project objectives.

Relationship to other plans and MPO activities

This project will work toward implementation of the three named plans and inform the town's capital budgeting process as well as future STP-DA funding requests.

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 not exceed 40 hours with 75% of the hours by the Planner and 25% by the Planning Director.

The town reserves the right to allocate additional local funds to this task if it is necessary to produce a reasonable or desirable project.

Orange County
Task Funding Table and Supporting Documents

Orange County

	Task Description	STP-DA		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 Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$260	\$1,039	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260	\$0	\$1,039	\$1,299
	6 Dwelling Unit, Pop. & Emp. Change	\$520	\$2,078	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$520	\$0	\$2,078	\$2,598
	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	\$520	\$2,078	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$520	\$0	\$2,078	\$2,598
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$433	\$1,732	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$433	\$0	\$1,732	\$2,165
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
II-B	Long Range Transp. Plan														
	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 LRTP	\$866	\$3,464	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$866	\$0	\$3,464	\$4,330
	10 Transit Element of the LRTP	\$433	\$1,732	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$433	\$0	\$1,732	\$2,165
	11 Bicycle & Ped. Element of the LRTP	\$866	\$3,464	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$866	\$0	\$3,464	\$4,330
	12 Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of LRTP	\$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	\$346	\$1,386	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$346	\$0	\$1,386	\$1,732
												\$0	\$0	\$0	\$0
III-A	Planning Work Program														
	Planning Work Program	\$433	\$1,732	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$433	\$0	\$1,732	\$2,165
												\$0	\$0	\$0	\$0
III-B	Transp. Improvement Plan														
	TIP	\$3,031	\$12,124	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,031	\$0	\$12,124	\$15,155
												\$0	\$0		
III-C	Cvl Rgts. Cmp/Otr. Reg. Reqs.														
	1 Title VI	\$173	\$693	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173	\$0	\$693	\$866
	2 Environmental Justice	\$173	\$693	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173	\$0	\$693	\$866
	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	\$173	\$693	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173	\$0	\$693	\$866
	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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-E	Management & Operations														
	1 Management & Operations	\$433	\$1,732	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$433	\$0	\$1,732	\$2,165
Totals		\$8,660	\$34,640	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,660	\$0	\$34,640	\$43,300

ORANGE COUNTY TASK DESCRIPTIONS & NARRATIVES FY 2016-2017 UPWP-STP-DA

II-A-5. Transit System Data

Anticipating the compilation of an MPO database of transit routes and stops, including transit service data. This task addresses efforts to coordinate this information and use of MPO resources between MPO and Orange County staff. As needed and requested, County staff will collect and contribute transit data related to its transit system within the MPO planning area to be used in MPO planning documents and products, as Orange Public Transportation's inclusion in those products has not existed in previous iterations. The data will also be used to monitor service performance and to provide inputs to the FTA's National Transit Database for the system.

Objectives

- O1 – Collect transit route and stop information for existing transit services
- O2 – Collect and provide to MPO transit service metrics (passenger miles, passengers per hours, etc.)
- O3 – Provide transit system data to MPO for compilation of geodatabase for planning purposes
- O4 – Incorporate Orange Public Transportation data into MPO documents and products as they are produced
- O5 – Report transit service performance metrics to the National Transit Database

Previous work

County staff has provided transit system data to MPO staff as needed for use in various products and documents such as the CTP, CMP status report, Mobility Report Card, etc. The County has not yet collected and reported some transit service data, such as passenger miles, to the NTD because of technical constraints; however, the County began reporting basic service data to the NTD for FY 2013. The County has also built its own internal geodatabase of transit routes and stops and continues to develop that information.

Proposed activities

1. Digitize transit route and stop information and provide files to MPO
2. Install technology to collect transit performance metrics on Orange Public Transportation's (OPT) fleet or develop manual methodology for collecting the data
3. Summarize and review transit performance data collected
4. Review MPO planning documents and products and incorporate County transit data where necessary
5. Tabulate data collected for incorporation into NTD report for OPT for FY 2017

Products

1. Report Orange Public Transportation statistics and data to MPO
2. Orange Public Transportation transit data in MPO products and planning documents
3. National Transit Database report for OPT

Relationship to other plans and MPO activities

2045 MTP, CMP, Mobility Report Card, CTP, National Transit Database report

Proposed budget and level of effort

Transportation Planner: 13 hours

GIS Project Coordinator: 9 hours

Comprehensive Planning Supervisor: 6 hours

II-A-6. Dwelling Unit, Pop. & Emp. Change

Review any County sources of dwelling unit, population, and employment for trends and changes to compare with assumptions used in the MTO and CTP. Changes in dwelling units/population within

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Orange County planning jurisdiction will be identified and evaluated to determine accuracy and consistency with forecasts used by the MPO.

Objectives

O1 – Review dwelling unit, population, and employment data as part of the MTP and CTP; and Triangle Regional Model (TRM) processes and provide additional data if needed.

Previous work

The County has submitted place type and development status information and reviewed and questioned population and employment control totals.

Proposed activities

1. Collect and review County subdivision and Certificate of Occupancy data and trends for comparison with controls totals utilized by the MPO.

Products

1. Tabular data

Relationship to other plans and MPO activities

2045 MTP, CTP, Land-use scenarios planning

Proposed budget and level of effort

GIS Project Coordinator: 16 hours

Comprehensive Planning Supervisor: 31 hours

II-A-10. Mapping

The County's GIS specialist, along with other planning staff, will assist in developing base maps, GIS layers, and databases to serve MPO-wide and local transportation and associated data mapping objectives. They will provide, as needed, GIS layers for highway, transit, bike, and pedestrian networks as well as parcel, zonal, census and land development information.

Objectives

- O1 – Update base maps and spatial data files, including boundary, spatial and network data, with new data
- O2 – Provide support for continued MPO GIS data development
- O3 – Ensure high-quality mapping and analysis of transportation facilities and planning-related thematic data

Previous work

Provided spatial data for scoring inputs to determine project priority selection for TIP development. Provided mapping of transportation improvement proposals within the MTP for consideration in the TIP. Provided support for continued GIS data development for inclusion in MPO plans and programs. Organized spatial data for Orange County to support/complete base year data collection and socioeconomic data collection and forecasting tasks. Provided mapping of OPT bus service expansion program transit routes and concepts.

Proposed activities

1. Update shapefiles or other layer types with new features and-or attribute data

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2. Provide and-or review GIS maps for MPO projects, the development of the 2045 MTP, CTP, and any land use scenario or development activity outputs as needed
3. Conduct GIS network analysis as needed to address transportation issues

Products

1. Updated GIS data
2. Spatial thematic data layouts for 2045 MTP and CTP
3. Update of transit routes and stops, highway and bike elements of the MTP

Relationship to other plans and MPO activities

2045 MTP, CTP, and Land-use scenarios planning

Proposed budget and level of effort

GIS Project Coordinator: 50 hours

Transportation Planner: 8 hours

II-A-12. Bike and Ped. Facilities Inventory

Update and review bike-pedestrian maps (incl. trails)

Objectives

O1 – Ensure that bicycle and pedestrian facilities are up to date and if necessary, update GIS shapefiles.

Previous work

The County has bicycle data that it uses for planning and public information purposes, including identification of preferred bicycle routes, facilities requiring improvement.

Proposed activities

- 1 Collect and review existing data
- 2 Update where needed and provide to the MPO
- 3 Review MPO wide network for consistency

Products

Updated maps and geodatabase

Relationship to other plans and MPO activities

2045 MTP, CTP, and Land-use scenarios planning

Proposed budget and level of effort

GIS Project Coordinator: 25 hours

Transportation Planner: 16 hours

Comprehensive Planning Supervisor: 6 hours

II-B-9. Highway Element of the LRTP

The County will assist and support the MPO's efforts to evaluate the highway elements of the CTP and the LRTP/MTP. The County will assist in the establishment of performance measures for evaluating highway alternatives and will identify and evaluate highway facilities to be included as part of the MPO for the highway component of the CTP. The County's portion of the highway element will be developed in parallel with the MPO's process.

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Objectives

O1 – To provide adequate highway information as needed for the development of the MTP and CTP.

Previous work

The County coordinated with the MPO and its partners in the development of the 2040 MTP.

Proposed activities

1. Provide information as needed on potential highway projects' extent, length, present and future lanes, funded completion year and other information.

Products

1. Generation and evaluation of highway alternatives
2. Update of geodatabase of highway alternatives

Relationship to other plans and MPO activities

2045 MTP, CTP, and land-use scenarios planning

Proposed budget and level of effort

Transportation Planner: 70 hours

Comprehensive Planning Supervisor: 25 hours

II-B-10. Transit Element of the LRTP

The County will assist and support the MPO's efforts to evaluate the transit elements of the CTP and the LRTP/MTP. The County will assist in the establishment of performance measures for evaluating transit alternatives and will identify and evaluate transit facilities to be included as part of the MPO for the transit component of the CTP. The County's portion of the transit element will be developed in parallel with the MPO's process.

Objectives

O1 – Identify transit routes, develop alternatives and any key data for any transit projects identified.

Previous work

The County coordinated with the MPO and its partners in the development of the 2040 MTP.

Proposed activities

1. Provide information as needed on potential transit projects

Products

1. Generation and evaluation of transit alternatives
2. Update of geodatabase of transit alternatives

Relationship to other plans and MPO activities

2045 MTP, CTP, and land-use scenarios planning

Proposed budget and level of effort

Transportation Planner: 35 hours

Comprehensive Planning Supervisor: 12 hours

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II-B-11. Bicycle and Ped. Element of the LRTP

Orange County will participate and assist in the MPO evaluating the bicycle and pedestrian elements of the 2045 MTP.

Objectives

O1 – Update or identify bicycle routes, develop alternatives and any key data for any bicycle projects.

Previous work

The County coordinated with the MPO and its partners in the development of the 2040 MTP.

Proposed activities

1. Provide information as needed on potential bicycle or pedestrian projects

Products

1. Generation and evaluation of bike-ped alternatives
2. Update of geodatabase of bike-ped alternatives

Relationship to other plans and MPO activities

2045 MTP, CTP, and land-use scenarios planning

Proposed budget and level of effort

Transportation Planner: 70 hours

Comprehensive Planning Supervisor: 25 hours

II-C-1. Short Range Transit Planning

The County will participate in short-range transit planning for both Orange County and the metropolitan planning area. County staff will continue to represent Orange County's position on the Orange County Bus and Rail Investment Planning staff working group to continue to refine plan assumptions and details. County staff will administer and oversee the implementation of Orange County's component of the plan. County staff will continue coordination with GoTriangle to process updates to the Bus and Rail Investment Plan and communicate and process those updates with the County Board of Commissioners and the MPO. The County will also continue to refine transit services it has initiated as part of the Orange County Bus and Rail Investment Plan based on a data-driven approach.

Objectives

- O1 – Ensure that Orange County plays a key role in GoTriangle's short-range regional transit initiatives including implementation activities related to capital investment and improvements as well as operations
- O2 – Continue to work with GoTriangle on new initiatives, service recommendations, public outreach, and grant funding opportunities within Orange County
- O3 – Implement Orange County's component of the Bus and Rail Investment Plan including coordination with GoTriangle, Chapel Hill Transit and the MPO
- O4 – Update assumptions and other information in the Bus and Rail Investment Plan as needed

Previous work

County staff has participated in the Orange County Bus and Rail Investment Plan staff working group since its inception in FY 2014 and reviewed and provided feedback on updates to assumptions, identified needs and service recommendations in the plan. County staff prepared a five-year bus service expansion program to act as a programming guide for implementing adopted service recommendations derived from the plan and has taken and continues to take steps to implement the plan. County staff has coordinated

**ORANGE COUNTY
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with the MPO and its processes to prepare for implementation of the bus service expansion program. The County has also participated in a review and recommendation regarding the MPO's sub-allocation of Federal Formula transit grants.

Proposed activities

1. Solicit public and affected agency input and provide feedback on GoTriangle's proposed regional service concepts and implementation activities in Orange County
2. Maintain grant funding for Orange Public Transportation bus service concepts in Orange County
3. Implement Orange County's service recommendation concepts as outlined in the Orange County Bus and Rail Investment Plan and Orange County Five-Year Bus Service Expansion Program

Products

1. Five-Year Bus Service Expansion Program updates and amendments
2. MPO-administered capital and/or operating project funding requests and proposals
3. Service and funding data summaries for Orange County's component of Bus and Rail Investment Plan

Relationship to other plans and MPO activities

The Orange County Bus and Rail Investment Plan was approved by Orange County, the MPO, and GoTriangle. The draft 2040 MTP Transit element includes and the draft 2045 MTP will include the recommendations of the Plan.

Proposed budget and level of effort

GIS Coordinator: 10 hours

Transportation Planner: 20 hours

Comprehensive Planning Supervisor: 8 hours

III-A-1. Planning Work Program

The County will administer the FY 2016-2017 UPWP and prepare and process amendments as needed. It will evaluate transportation planning work and emphasis areas needed and prepare the FY 2017-2018 UPWP.

Objectives

- O1 – Track and report on Orange County's 2016-2017 UPWP activities
- O2 – Process amendments to the UPWP if necessary
- O3 – Submit the 2017-2018 UPWP to the MPO

Previous work

County staff prepared a UPWP for FYs 2013-2014, 2014-2015, and 2015-2016 and tracked the completion of UPWP tasks with quarterly progress reports. County staff also processed amendments to those UPWPs. Progress reports have made clear how much funding remains for tasks in the fiscal year guiding the necessity for amendments.

Proposed activities

1. Complete quarterly reports for the 2016-2017 UPWP
2. Complete amendment spreadsheets as needed
3. Prepare Orange County's 2017-2018 UPWP documents and budget

**ORANGE COUNTY
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FY 2016-2017 UPWP-STP-DA**

Products

1. Quarterly progress reports and invoices to the MPO on UPWP activities
2. Amendment spreadsheets as needed
3. Orange County's 2017-2018 UPWP activities narrative and budget

Relationship to other plans and MPO activities

Required by federal law, the UPWP is the mechanism for laying out regional transportation planning activities and coordination with the MPO.

Proposed budget and level of effort

Transportation Planner: 10 hours

Comprehensive Planning Supervisor: 29 hours

III-B-1. Transportation Improvement Program

In anticipation of 2018-2027 STIP and DCHC MPO TIP adoption, County planning staff will work with its transportation advisory board and Board of County Commissioners to develop transportation project priorities for submission for consideration in the MPO's TIP. County staff will communicate and strategize for the programming of transportation project priorities countywide. Orange County planning staff will work with boards to develop requests for transportation improvements for various MPO calls for projects. County planning staff will also collect and report data for prioritized projects to the MPO. The County will also participate in the MPO's development of process, strategy, and methodology for developing a TIP in conjunction with the State's prioritization processes.

Objectives

- O1 – Facilitate processing of County's prioritization of projects for TIP consideration including research and data reporting for candidate projects
- O2 – Communicate and coordinate project priorities to the public, County advisory boards, and the County's governing body
- O3 – Communicate priorities and corresponding data to the MPO

Previous work

County staff developed a priority list for the County of transportation project improvements during FY 2014-2015 and communicated those priorities to MPO staff for 2018-2027 TIP consideration. This list involved researching needs, processing through advisory boards and elected officials, and submission in various phases to MPO staff. County staff also participated in an STP-DA call for projects and in the MPO's development of process, strategy, and methodology for developing a TIP and maximizing transportation project funding for the region.

Proposed activities

1. Support and facilitate consideration and processing of candidate projects and provide funding information and cost estimates as well as other data for the 2018-2024 TIP
2. Facilitate feedback from the public, Transportation Advisory Board, and Board of County Commissioners for 2018-2027 TIP projects
3. Facilitate consideration of inclusion of Orange County projects in the 2018-2027 TIP to communicate to the MPO

Products

1. Project data submission to MPO staff

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2. County feedback on proposed MPO priorities

Relationship to other plans and MPO activities

2018-2027 TIP, 2045 MTP, STP-DA distribution policies

Proposed budget and level of effort

Transportation Planner: 220 hours

Comprehensive Planning Supervisor: 104 hours

III-C-1. Title VI

Continue work with MPO staff on the Title VI plan, including its implementation, and associated Policy Statement and Assurance. Provide assistance as needed with the development of the MPO Limited English Proficiency plan.

Objectives

O1 – Provide assistance as necessary to implement the MPO Title VI plan and complete a Limited English Proficiency plan.

Previous work

Prepared Title VI plan for Orange County/Orange Public Transit (OPT) to serve as a guide in its administration and management of Title VI related activities. Adopted by Orange County March 2015.

Proposed activities

Assist in MPO implementation of its Title VI plan and participate in the preparation and review of its LEP plan.

Products

Progress toward implementation of the MPO Title VI plan and a MPO Board adopted MPO Limited English Proficiency plan.

Relationship to other plans and MPO activities

2045 MTP, CMP, CTP, Mobility Report Card, Land-use scenarios planning, and Environmental Justice Plan

Proposed budget and level of effort

Transportation Planner: 14 hours

Comprehensive Planning Supervisor: 5 hours

III-C-2. Environmental Justice

Work with MPO staff as needed to implement its Environmental Justice Plan, which will focus on complying with Federal Action (Executive Order 12898)

Objectives

O1 – Involve low-income and minority groups in decision making.

O2 - Prevent disproportionately high and adverse impacts to low-income and minority groups resulting from MPO transportation and environmental decisions.

O3 - Assure that low-income and minority groups receive share of benefits resulting from MPO transportation decisions.

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Previous work

County staff provided review of the MPO EJ Report throughout its development.

Proposed activities

- 1) Review draft EJ public update as recommended by the Federal Certification
- 2) Review analysis and integration of MTP EJ component and participate where necessary.

Products

Environmental Justice update and EJ included as a part of the 2045 MTP.

Relationship to other plans and MPO activities

2045 MTP, CTP, Title VI Plan, and MPO Limited English Proficiency plan preparation.

Proposed budget and level of effort

Transportation Planner: 14 hours

Comprehensive Planning Supervisor: 5 hours

III-C-6. Public Involvement

Provide early, proactive and meaningful public participation and input throughout the transportation planning process.

Objectives

O1 – Open exchange of information and ideas between public and decision makers.

O2 – Provide public with complete information, timely notice, full access to key decisions, and involvement in the 3C process.

O3 – Assess the effectiveness of the current public involvement process.

O4 – Develop and enhance the process of public dissemination of information.

Previous work

Participated in preparation and review of Public Involvement Plan for 2040 MTP

Proposed activities

1. Utilize the Orange County website as an additional means of keeping the public informed of MPO projects and processes
2. Assist with MPO outreach activities
3. Coordinate

Products

Increase in meaningful public participation and input through expanded outreach, information sharing and public access.

Relationship to other plans and MPO activities

2045 MTP, CMP, CTP, Mobility Report Card, Land-use scenarios planning

Proposed budget and level of effort

Transportation Planner: 14 hours

Comprehensive Planning Supervisor: 5 hours

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III-E-1. Management and Operations

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

Objectives

- O1 – Participate and contribute to MPO-related meetings
- O2 – Adhere to the goals and tasks laid out in the Unified Planning Work Program
- O3 – Ensure that elected officials have adequate information to make informed decisions on local and regional transportation issues
- O4 – Ensure the local transportation advisory board has the information it needs to develop sound recommendations on local and regional transportation issues
- O5 – Improve staff efficiency and knowledge through training sessions and educational materials

Previous work

Same as activities proposed below.

Proposed activities

1. Attend and participate in MPO TC and Board meetings
2. Preparing quarterly progress reports/invoices and documenting expenditures for planning work items
3. Staff development through professional training courses, seminars, and conferences
4. Subscriptions to professional publications and professional organizational dues
5. Acquire needed software, books, and other materials
6. Facilitate local transportation advisory board meetings by creating agendas, minutes, and staff reports
7. Prepare materials and present to the local elected officials related to local and regional transportation planning topics
8. Attend and participate in MPO subcommittee meetings

Products

1. Staff reports and agenda materials for Transportation Advisory Board and County Board of Commissioners meetings
2. Routine submissions to MPO staff communicating Orange County project and general transportation planning information

Relationship to other plans and MPO activities

2045 MTP, 2018-2027 TIP, MPO TC and Board agendas and decisions

Proposed budget and level of effort

Transportation Planner: 26 hours

Comprehensive Planning Supervisor: 18 hours

Triangle J Council of Government
Task Funding Table and Supporting Documents

Triangle J COG

		Task Description	STP-DA 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 Accidents	\$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														
	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 LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	10	Transit Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11	Bicycle & Ped. Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12	Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13	Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14	Rail, Water or other mode of LRTP	\$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
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														
	1	Planning Work Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-B		Transp. Improvement Plan														
	1	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	\$13,750	\$55,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,750	\$0	\$55,000	\$68,750
III-E		Management & Operations														
	1	Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals			\$13,750	\$55,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,750	\$0	\$55,000	\$68,750

**TRIANGLE J COUNCIL OF GOVERNMENTS
TASK DESCRIPTIONS & NARRATIVES
FY 2016-2017 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 private sector partners.

Objectives

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

Previous work

CommunityViz support and Version 2 development, evaluation and documentation; Joint 2040 MTP facilitation and technical work; ozone standards and non-attainment education and technical assistance; MTP and TIP conformity coordination, LUCID land use – transit forum and technical work, TRM executive committee support, Transit fiscal constraint spreadsheets, GoTriangle and county transit plan participation, MPO area plan and project participation.

Proposed activities

Major activities include 2045 MTP development tasks, TRM executive committee support, CommunityVIZ 2.0 refinement and data management, land use-transit investment planning, transportation-air quality issue tracking.

Products

- 2045 MTP document coordination and joint MPO technical support
- Triangle Regional Model Executive Committee documentation
- CommunityVIZ-related products, focusing on final scenario and data for 2045 MTP.
- Transportation-land use-affordable housing data and reports, as appropriate

Relationship to other plans and MPO activities

This work is most closely tied to the DCHC 2045 MTP implementation process and final data and scenario run for CommunityViz 2.0, an input to version 6 of the Triangle Regional Model. Work enables the DCHC MPO to ensure consistent and seamless coordination with CAMPO.

Proposed budget and level of effort

Budget largely supports staff work by Planning Director, Senior Planner, Planner II, and GIS Analyst, with some direct costs associated with travel and meeting expenses, and allocated indirect.

Funding Commitments from other Entities:

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

Appendix B

FTA Transit Agency Project Narratives Funding Tables and

DBE Forms

Chapel Hill Transit
FTA Funding Table and Supporting Documents

Town of Chapel Hill

	Task Description	STP-DA 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 Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5 Transit System Data	\$0	\$0	\$0	\$0	\$271	\$271	\$2,169	\$0	\$0	\$0	\$271	\$271	\$2,169	\$2,711
	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	\$2,040	\$8,161	\$0	\$0	\$3,422	\$3,422	\$27,378	\$0	\$0	\$0	\$5,463	\$3,422	\$35,539	\$44,424
	11 Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Bike & Ped. Facilities Inventory	\$1,496	\$5,986	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,496	\$0	\$5,986	\$7,482
	13 Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0			\$0	\$0	\$0							
II-B	Long Range Transp. Plan	\$0	\$0			\$0	\$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 L RTP	\$1,681	\$6,725	\$0	\$0	\$722	\$722	\$5,775	\$0	\$0	\$0	\$2,403	\$722	\$12,500	\$15,625
	10 Transit Element of the L RTP	\$1,681	\$6,725	\$0	\$0	\$722	\$722	\$5,775	\$0	\$0	\$0	\$2,403	\$722	\$12,500	\$15,625
	11 Bicycle & Ped. Element of the L RTP	\$5,865	\$23,461	\$0	\$0	\$1,002	\$1,002	\$8,017	\$0	\$0	\$0	\$6,867	\$1,002	\$31,478	\$39,347
	12 Airport/Air Travel Element of L RTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of L RTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of L RTP	\$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	\$879	\$3,514	\$0	\$0	\$1,770	\$1,770	\$14,162	\$0	\$0	\$0	\$2,649	\$1,770	\$17,676	\$22,095
	17 Congestion Management Strategies	\$560	\$2,242	\$0	\$0	\$1,055	\$1,055	\$8,439	\$0	\$0	\$0	\$1,615	\$1,055	\$10,681	\$13,351
	18 Air Qual. Planning/Conformity Ana	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$0	\$0			\$0	\$0	\$0							
II-C	Short Range Transit Planning	\$0	\$0			\$0	\$0	\$0							
	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$862	\$862	\$6,898	\$0	\$0	\$0	\$862	\$862	\$6,898	\$8,623
		\$0	\$0			\$0	\$0	\$0							
III-A	Planning Work Program	\$0	\$0			\$0	\$0	\$0							
	Planning Work Program	\$1,083	\$4,332	\$0	\$0	\$444	\$444	\$3,553	\$0	\$0	\$0	\$1,527	\$444	\$7,885	\$9,856
		\$0	\$0			\$0	\$0	\$0							
III-B	Transp. Improvement Plan	\$0	\$0			\$0	\$0	\$0							
	TIP	\$2,073	\$8,291	\$0	\$0	\$825	\$825	\$6,600	\$0	\$0	\$0	\$2,898	\$825	\$14,891	\$18,614
		\$0	\$0			\$0	\$0	\$0							
III-C	Civil Rgts. Cmp./Otr. Reg. Reqs.	\$0	\$0			\$0	\$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			\$0	\$0	\$0							
III-D	Incidental Plng./Project Dev.	\$0	\$0			\$0	\$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	\$4,974	\$19,895	\$0	\$0	\$1,795	\$1,795	\$14,362	\$0	\$0	\$0	\$6,769	\$1,795	\$34,257	\$42,821
	4 Regional or Statewide Planning	\$1,912	\$7,648	\$0	\$0	\$1,317	\$1,317	\$10,536	\$0	\$0	\$0	\$3,229	\$1,317	\$18,184	\$22,730
III-E	Management & Operations														
	1 Management & Operations	\$4,555	\$18,221	\$0	\$0	\$2,942	\$2,942	\$23,536	\$0	\$0	\$0	\$7,497	\$2,942	\$41,757	\$52,196
	Totals	\$28,800	\$115,200	\$0	\$0	\$17,150	\$17,150	\$137,200	\$0	\$0	\$0	\$45,950	\$17,150	\$252,400	\$315,500

CHAPEL HILL TRANSIT
FTA TASK NARRATIVE TABLE
FY2016-2017 UPWP

1-	MPO	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)
2-	FTA Code	442400	442301	442302	442302	442302	442302	442302	442302	442400	442100
3-	Task Code	II-A-5	II-A-10	II-B-5	II-B-9	II-B-10	II-B-11	II-B-16	II-B-17	II-C-1	III-A-1
4-	Title of Planning Task	Transit System Data	Mapping	Forecast of Data to Horizon Year	Highway Element of the L RTP	Transit Element of the L RTP	Bicycle and Pedestrian Element of L RTP	Financial Planning	Congestion Management Strategies	Short Range Transit Planning	Planning Work Program
5-	Task Objective	Review and analyze transit system data to monitor changes in travel behavior	Participate with MPO in further development of regional GIS database; prepare mapping to support local and regional activities	To prepare projections for 2045 housing, population and employment.	To review and update highway network included in 2045 MTP update	To review and update transit network included in 2045 MTP update	To review and update bicycle network included in 2045 MTP update	Prepare Financial Plan for 2045 MTP. Development of a strategic plan, and financial plan identifying sustainable funding sources for services established in the strategic plan.	Coordinate with Triangle Regional TDM program to implement regionwide TDM program.	Develop elements of Chapel Hill Transit Short Range Transit Plan.	To prepare the Chapel Hill element of the FY2016 UPWP
6-	Tangible Product Expected	Monitor system performance and prepare summary report to MPO	MPO Regional GIS database and CMS database.	Projections of socio economic data for use in the development of the 2045 MTP.	2045 MTP highway network	2045 MTP transit network	2045 MTP bicycle network	Refinement of the Orange County Transit Plan and development of the 2045 MTP Financial Plan element.	Preparation of DCHC MPO CMS and Development of TDM program for incorporation into 2045 L RTP	Refinements to the previously completed comprehensive route analysis, North South Transit Study and incorporation of recommendations of Strategic Financial Study.	FY2016 PWP
7-	Expected Completion Date of Product(s)	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017
8-	Previous Work	Data Collection	Provided support for development of geo spatial database architecture.	Preparation of 2040 socio economic projections.	Development of 2040 MTP highway network	Development of 2040 MTP transit network	Development of 2040 MTP bicycle network	2040 Financial Plan and CHT's Financial Sustainability Plan	TDM element of 2040 L RTP.	Development of comprehensive route analysis.	Development and management of FY15 & FY16 UPWP
9-	Prior FTA Funds										
10-	Relationship To Other Activities	Supports implementation of L RTP	Supports development of L RTP and related MPO activities	Supports development of the 2045 L RTP	Supports development of the 2045 L RTP	Supports development of the 2045 L RTP	Supports development of the 2045 L RTP	Supports development of the 2045 L RTP	Supports development of the 2045 L RTP	Supports implementation of the MPO L RTP	Supports implementation of annual work program
11-	Agency Responsible for Task Completion	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill
12-	HPR - Highway - NCDOT 20%										
13-	HPR - Highway - FHWA 80%										
14-	Section 104 (f) PL Local 20%										
15-	Section 104 (f) PL FHWA 80%										
16-	Section 5303 Local 10%	\$271	\$3,422		\$722	\$722	\$1,002	\$1,770	\$1,055	\$862	\$444.00
17-	Section 5303 NCDOT 10%	\$271	\$3,422		\$722	\$722	\$1,002	\$1,770	\$1,055	\$862	\$444.00
18-	Section 5303 FTA 80%	\$2,169	\$27,379		\$5,775	\$5,775	\$8,017	\$14,162	\$8,439	\$6,899	\$3,553.00
19-	Section 5307 Transit - Local 10%										
20-	Section 5307 Transit - NCDOT 10%										
21-	Section 5307 Transit - FTA 80%										
22-	Section 5309 Transit - Local 10%										
23-	Section 5309 Transit - NCDOT 10%										
24-	Section 5309 Transit - FTA 80%										
		\$0	\$34,223	\$0	\$7,219	\$7,219	\$10,021	\$17,702	\$0	\$8,623	\$0
		\$2,711	\$34,223	\$0	\$7,219	117 \$7,219	\$10,021	\$17,702	\$10,549	\$8,623	\$4,441

CHAPEL HILL TRANSIT
FTA TASK NARRATIVE TABLE
FY2016-2017 UPWP

1-	MPO	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	DCHC-MPO (Chapel Hill Transit)	
2-	FTA Code	442500	442700	442400	442400	442400	442700	442200	442100	
3-	Task Code	III-B-1	III-C-3	III-C-4	III-C-5	III-C-6	III-D-3	III-D-4	III-E	
4-	Title of Planning Task	Transportation Improvement Program	Minority Business Enterprise	Planning for the Elderly and Disabled	Safety/Drug Control Planning	Public Involvement	Special Studies	Regional or Statewide Planning	Management and Operations	TOTALS
5-	Task Objective	To prepare information for the SPOT process, monitor the adopted TIP and prepare information for amendments to TIP.	To assess compliance with minority business enterprise regulations	To assess impact of transit service on elderly and handicapped populations	To implement and monitor federal safety and drug control planning	To establish public outreach efforts to engage public involvement.	To prepare special studies to support ongoing transit operations. To prepare an Alternatives Analysis for CHT.	To support regional and statewide planning projects	To support various transit planning activities	
6-	Tangible Product Expected	Updated TIP	Annual assessment	Annual assessment	Annual Assessments	Annual transit forums	Preparation of Chapel Hill Mobility and Connectivity Plan, LRT Station Area Plans and participation in NCDOT US 15-501/Fordham Blvd. Feasibility Study and I-40 Managed Lanes Feasibility Study.	Coordination with Triangle Transit on implementation of Durham to Chapel Hill LRT.	Ongoing transit activities and reporting requirements.	
7-	Expected Completion Date of Product(s)	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	6/30/2017	
8-	Previous Work	Adjustments to existing TIP; Development of new TIP	Annual assessment	Ongoing monitoring	Ongoing monitoring	Annual transit forums	US 15-501 South Corridor Study		Management of transit planning activities	
9-	Prior FTA Funds									
10-	Relationship To Other Activities	Supports implementation of adopted LRTP	State/Federal MBE requirements	This project supports the development of the 2045 Regional Plan		This project supports the development of the 2045 Regional Plan	This project supports the development of the 2045 Regional Plan	Supports the implementation of the adopted 2040 Regional Plan and the Chapel Hill Long 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	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	Town of Chapel Hill	
12-	HPR - Highway - NCDOT 20%									
13-	HPR - Highway - FHWA 80%									
14-	Section 104 (f) PL Local 20%									\$0
15-	Section 104 (f) PL FHWA 80%									\$0
16-	Section 5303 Local 10%	\$825					\$1,796	\$1,317	\$2,942	\$17,150
17-	Section 5303 NCDOT 10%	\$825					\$1,795	\$1,317	\$2,942	\$17,150
18-	Section 5303 FTA 80%	\$6,600					\$14,361	\$10,536	\$23,536	\$137,200
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
		\$0	\$0	\$0	\$0	\$0	\$17,952	\$13,170	\$29,420	\$0
		\$8,250	\$0	\$0	\$0	118	\$0	\$17,952	\$13,170	\$29,420

ATTACHMENT #7**Anticipated DBE Contracting Opportunities for 2016-2017**

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

Person Completing Form: David Bonk Telephone Number: 919 969 5064

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 anticipated.				

Sample Entry:

II-C-11	Transit Plan Evaluation	Big City Planning Department	Consultant	\$48,000	\$60,000
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GoDurham

FTA Funding Table and Supporting Documents

City of Durham & GoDurham

	Task Description	STP-DA		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	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
4	Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Transit System Data	\$400	\$1,600	\$0	\$0	\$8,076	\$8,076	\$64,606	\$5,401	\$5,401	\$43,210	\$13,877	\$13,477	\$109,416	\$136,770
6	Dwelling Unit, Pop. & Emp. Change	\$1,600	\$6,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,600	\$0	\$6,400	\$8,000
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	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600	\$0	\$2,400	\$3,000
11	Central Area Parking Inventory	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	Bike & Ped. Facilities Inventory	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
13	Bike & Ped. Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0	\$0	\$0	\$0	\$0	\$0			
II-B	Long Range Transp. Plan					\$0	\$0	\$0	\$0	\$0	\$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	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
6	Community Goals & Objectives	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
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 LRTP	\$1,400	\$5,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400	\$0	\$5,600	\$7,000
10	Transit Element of the LRTP	\$1,000	\$4,000	\$0	\$0	\$326	\$326	\$2,610	\$483	\$483	\$3,862	\$1,809	\$809	\$10,472	\$13,090
11	Bicycle & Ped. Element of the LRTP	\$3,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000	\$0	\$12,000	\$15,000
12	Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	Rail, Water or other mode of LRTP	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
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	\$2,610	\$7,930	\$7,930	\$63,439	\$8,256	\$8,256	\$66,049	\$82,561
17	Congestion Management Strategies	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400	\$0	\$1,600	\$2,000
18	Air Qual. Planning/Conformity Anal.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0	\$0	\$0	\$0	\$0	\$0			
II-C	Short Range Transit Planning					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
1	Short Range Transit Planning	\$0	\$0	\$0	\$0	\$2,610	\$2,610	\$20,878	\$10,058	\$10,058	\$80,462	\$12,668	\$12,668	\$101,341	\$126,676
						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-A	Planning Work Program					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	Planning Work Program	\$1,000	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0	\$4,000	\$5,000
						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-B	Transp. Improvement Plan					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	TIP	\$3,000	\$12,000	\$0	\$0	\$652	\$652	\$5,219	\$969	\$969	\$7,751	\$4,621	\$1,621	\$24,970	\$31,213
						\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III-C	Cvl Rgts. Cmp./Otr. Reg. Reqs.					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
1	Title VI	\$600	\$2,400	\$0	\$0	\$326	\$326	\$2,610	\$350	\$350	\$2,803	\$1,277	\$677	\$7,813	\$9,766
2	Environmental Justice	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$0	\$800	\$1,000
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	\$326	\$326	\$2,610	\$937	\$937	\$7,494	\$2,263	\$1,263	\$14,104	\$17,630
7	Private Sector Participation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0	\$0	\$0	\$0	\$0	\$0			
III-D	Incidental Plng./Project Dev.					\$0	\$0	\$0	\$0	\$0	\$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.	\$400	\$1,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400	\$0	\$1,600	\$2,000
3	Special Studies	\$2,800	\$11,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800	\$0	\$11,200	\$14,000
4	Regional or Statewide Planning	\$1,500	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500	\$0	\$6,000	\$7,500
						\$0	\$0	\$0	\$0	\$0	\$0	\$0			
III-E	Management & Operations					\$0	\$0	\$0	\$0	\$0	\$0	\$0			
1	Management & Operations	\$800	\$3,200	\$0	\$0	\$5,207	\$5,207	\$41,658	\$2,155	\$2,155	\$17,238	\$8,162	\$7,362	\$62,096	\$77,620
Totals		\$20,700	\$82,800	\$0	\$0	\$17,850	\$17,850	\$142,800	\$28,283	\$28,283	\$226,261	\$66,833	\$46,133	\$451,861	\$564,826

**DURHAM AREA TRANSIT
FTA TASK NARRATIVE TABLE
FY2016-2017 (FY17) UPWP**

Technical Committee 12/16/2015 Item 5

1-	MPO	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)	DCHC-MPO (DATA)
2-	FTA Code	442400	442302	442302	442400	442500	442100	442400	442100
3-	Task Code	II-A-5	II-B-10	II-B-16	III-C1	III-B-1	III-C-1	III-C-6	III-E
4-	Title of Planning Task	Transit System Data	Transit Element of the L RTP	Financial Planning	Short Range Transit Planning	Transportation Improvement Program (TIP)	Title VI	Public Involvement	Management and Operations
5-	Task Objective	This element is essentially about transit performance measures that are obtained through the compilation and analysis of FTA and NCDOT required service data obtained from the fixed route and paratransit systems. Conduct system-wide surveys while, providing on-going monitoring of the systems. These performance measures are compared with historical values to gauge the overall service delivery and consumption strength. Provide oversight of passenger amenities including AVL and related technologies. Compile daily, weekly and monthly ridership data and reports for all agencies. Provide ongoing support to MPO in long range transit, UPWP and TIP development. Key objectives include: integrating APC data in to the transit GIS system through routes and stops analysis that are segmented at TAZ levels, improving the geodatabase of transit routes and stops and updating the inventory of all such transit amenities.	To provide on-going support to the MPO's effort toward annual updates of the DCHC -MPO's Long Range Transportation Plan including work on the transit transit of the CTP and Transit elements of the 2045 MTP. The support would be in the form of transit data compilation, including service area maps, schedules and patron information as a component of the socio economic data needed for the regular update of the L RTP. A key objective is updating the transit element of the Coordinated Transportation Plan, CTP and MTP.	To prepare and Monitor the City's Fiscal programs including FTA and NCDOT grants. Apply for and administer grants in TEAM and also in City's Munis system. Monitor and ensure complete compliance with all financial procedures. Track all contracts with third party providers ensuring prompt payment and compliance of all purchases with state, federal and local laws.	To provide system-wide planning oversight of both the fixed route and paratransit services including the monitoring of AVL project, Zonar (pre-trip inspection device) Automatic Passenger counters (APC) On-board camera and video systems and GFI farebox input and output. Also, this task would include the conduct of FTA mandated NTD survey for fixed route system. Key objectives include: integrating APC data in to the transit GIS, summarizing and tabulating gathered AVL data, and updating the inventory of transit stops shelters and related amenities and also the development of geo-spatial mapping. Also, this task would prepare and monitor the City's Fiscal programs including FTA and NCDOT grants. Apply for and administer grants in TEAM and also in City's Munis system. Monitor and ensure complete compliance with all financial procedures. Track all contracts with third party providers ensuring prompt payment and compliance of all purchases with state, federal and local laws	To continue the program of developing transit plans for improving transit services as well as local area transportation as a whole. This would be achieved by identifying area of the City needing transit service and also improving upon the current level of service provided through on-going surveys. Additional tasks would include updating the transit element of the Coordinated Transportation Plan. Key objectives include: integrating APC data in to the transit GIS, summarizing and tabulating gathered AVL data, and updating the inventory of transit stops shelters and related amenities and also the development of geo-spatial mapping.	To provide ongoing education, service monitoring and system analysis and data compilation related to service changes in line with anticipation of Title VI Civil Rights mandates. This review would be done related to the DBBS program for the fixed route service in consultation with the FTA in order to ensure that all service changes over and above 10% are done with Title VI mandates in mind to ensure equity and fairness in the delivery of current fixed route transit service. This task will also include a checklist of certified ADA clientel, ADA service quality provided, ADA certification reviews, ADA service efficiency and effectiveness.	To seek out untapped patrons of the transit service through the use of aggressive public involvement and sustained marketing of the system. Also to engage the Public in all matters related to proposed service changes, to respond to the concerns of the public and to seek their input as it relates to all Title VI matters.	To provide overall transit system management and operations oversight of the fixed route and paratransit services, including service delivery, budgeting, service monitoring and reporting, personnel, short and long range system planning and system development as well as capital improvements. A key objective is developing our asset management system, performance measures and targets. Further, to work with City Transportation and Finance staff to develop federally mandated Asset Management including associated performance measures and targets.
6-	Tangible Product Expected from the Transit system will include but not limited to the following:	Monthly and annual statistical data compiled as part of the ongoing service data collection. They include such reports as monthly ridership, monthly safety data, monthly service supplied information, AVL and APC data. This information is aggregated into OPSTATS report for the state, Monthly and annual NTD reports for the FTA, and monthly Workplan data for City Management staff as well as the MPO staff for use in the L RTP efforts.	Transit Maps, GIS Overlays, Socioeconomic data compilation associated with the transit operations such as OPSTATS report, NTD Monthly and Annual reports, Transit Budget summaries, Passenger amenities use and inventory report, vehicle use and operation, short, and long term plans and all others specific reports and analysis that the MPO desires as part of this overall on-going transportation planning program	Grants, budget documents, Purchase orders, Bid documents Ledgers, Fund balances and maintenance of asset and related inventory.	Weekly, Monthly, and annual system-wide ridership monitoring reports, APC and AVL Reports, NTD survey outcome, Grants, budget documents, Purchase orders, Bid documents Ledgers, fund balances and maintenance of asset and related inventory including geospatial maps and overlays.	Maps of service changes, Public input process and outcomes, Public hearings, City Council reports, service implementation plans and related processes.	Title VI document related to all service changes that require that we provide such analysis for review and approval by the FTA. Mailing list of all ADA clients for the purpose of reviews, approved and denied trips, wait time list, No Show list, No Show handling, suspensions and wait-time compilation catalogue.	Public meeting agenda, outcome and reports, Public hearing notices and summary reports, meetig attendance and related Council reports	Budget outlay, monthly and annual operational and ridership reports, service planning information, safety and training reports, service marketing and outreach programs personnel matters Asset Management and inventory reports.
7-	Expected Completion Date of Product(s)	6/30/2016	6/30/2016	6/30/2016	6/30/2016	6/30/2016	6/30/2016	6/30/2016	6/30/2016
8-	Previous Work	These activities are on-going and were completed in previous years as part of 5303 and 5307 funded task element	2015 Planning Work Program	Same as above. This is also an ongoing task element conducted by the fiscal program accountant.	On-going	On-going on an annual basis.	Same as above	On-going	Same as above
9-	Prior FTA Funds	\$52,784	\$4,828	\$102,711	\$100,578	\$9,689	\$3,504	\$9,368	\$22,881
10-	Relationship To Other Activities	Related to task III-E	This program is intended to support various MPO planning efforts related on the L RTP updates	Related to task III-E	Data retrieved would be used to disseminate service delivery and patronage information to transit management, City Council, FTA, NCDOT	These activities outlined also the MPO's overall FY15 Unified Work Program.	Related to task III-E	This effort relates to and supports the MPO's overall FY15 unified Work Program of enhancing transportation	Related to task III-E
11-	Agency Responsible for Task Completion	GoDurham		GoDurham	GoDurham/GoTriangle	GoDurham/GoTriangle	GoDurham/GoTriangle		GoDurham
12-	HPR - Highway - NCDOT 20%								
13-	HPR - Highway - FHWA 80%								
14-	Section 104 (f) PL Local 20%								
15-	Section 104 (f) PL FHWA 80%								
16-	Section 5303 Local 10%	\$8,076	\$326	\$326	\$2,610	\$652	\$326	\$326	\$5,207
17-	Section 5303 NCDOT 10%	\$8,076	\$326	\$326	\$2,610	\$652	\$326	\$326	\$5,207
18-	Section 5303 FTA 80%	\$64,608	\$2,610	\$2,610	\$20,878	\$5,219	\$2,610	\$2,610	\$41,658
19-	Section 5307 Transit - Local 10%	\$5,401	\$483	\$7,930	\$10,058	\$969	\$330	\$937	\$2,153
20-	Section 5307 Transit - NCDOT 10%	\$5,401	\$483	\$7,930	\$10,058	\$969	\$330	\$937	\$2,153
21-	Section 5307 Transit - FTA 80%	\$43,210	\$3,862	\$63,439	\$80,462	\$7,751	\$2,803	\$7,494	\$17,238

**DURHAM AREA TRANSIT
FTA TASK NARRATIVE TABLE
FY2016-2017 (FY17) UPWP**

Technical Committee 12/16/2015 Item 5

1-	MPO	
2-	FTA Code	
3-	Task Code	
4-	Title of Planning Task	TOTALS
5-	Task Objective	
6-	Tangible Product Expected from the Transit system will include but not limited to the following:	
7-	Expected Completion Date of Product(s)	
8-	Previous Work	
9-	Prior FTA Funds	\$306,341
10-	Relationship To Other Activities	
11-	Agency Responsible for Task Completion	
12-	HPR - Highway - NCDOT 20%	
13-	HPR - Highway - FHWA 80%	
14-	Section 104 (f) PL Local 20%	
15-	Section 104 (f) PL FHWA 80%	
16-	Section 5303 Local 10%	\$17,850
17-	Section 5303 NCDOT 10%	\$17,850
18-	Section 5303 FTA 80%	\$142,800
19-	Section 5307 Transit - Local 10%	\$28,283
20-	Section 5307 Transit - NCDOT 10%	\$28,283
21-	Section 5307 Transit - FTA 80%	\$226,260

ATTACHMENT #7

Anticipated DBE Contracting Opportunities for 2016-2017

Name of MPO: GoDurhamX Check here if no anticipated DBE opportunitiesPerson Completing Form: Pierre Osei-OwusuTelephone Number: (919) 560-1535 Ext.36214

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

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

FTA Funding Table and Supporting Documents

GoTriangle

	Task Description	TOD Planning Pilot Program			Section 5307 Transit			Task Funding Summary			
		Local 24%	NCDOT 0%	FTA 76%	Local 10%	NCDOT 10%	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 Accidents	\$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</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	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	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	
	9 Highway Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	
	10 Transit Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11 Bicycle & Ped. Element of the LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	12 Airport/Air Travel Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	13 Collector Street Element of LRTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	14 Rail, Water or other mode of LRTP	\$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
II 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>Civil 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				
	3 Minority Business Enterprise	\$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 Png./Project Dev.</u>										
	1 Transportation Enhancement Png.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	2 Enviro. Analysis & Pre-TIP Png.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3 Special Studies	\$0	\$0	\$0	\$85,500	\$85,500	\$684,000	\$85,500	\$85,500	\$684,000	\$855,000
	4 Regional or Statewide Planning	\$533,385		\$1,691,615	\$0	\$0	\$0	\$533,385	\$0	\$1,691,615	\$2,225,000
III E	<u>Management & Operations</u>										
	1 Management & Operations	\$0	\$0	\$0	\$0	\$0	\$0				
Totals		\$533,385	\$0	\$1,691,615	\$85,500	\$85,500	\$684,000	\$618,885	\$85,500	\$2,375,615	\$3,080,000

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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 and rail service plans.

Previous Work

URS reports, model runs from MAB, financial analysis, Value capture report from Greenleaf

Proposed Activities

Studies may be conducted for corridors that show promise during the course of the development of the transit element of the MTP, including alternatives analysis activities, capital cost estimation, operating cost estimations, financial planning, and transit expert studies for corridors, alignments, and bus and rail service plans.

Products

Technical reports on specific topics regarding corridors, routes, stations, stops, and policies.

Relationship to other plans and MPO activities

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

Proposed budget and level of effort

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

**GoTriangle
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Task Code. Task Code Title.

III-D-4. Regional Planning

Objectives

Implement Durham-Chapel Hill TOD Planning Framework around Durham-Orange Light Rail Transit project using Federal Grant from the TOD Pilot Program.

Previous Work

None

Proposed Activities

- Community Educational Activities on Characteristics & Benefits of TOD
- Economic/Market Analysis of station area submarkets
- Station Area Infrastructure funding activities- cost estimating and prioritization
- Creating Station Area Plans, Regulations, and Policies
- Defining/Expanding Infrastructure Networks in Station Areas
- Affordable Housing Strategies
- Transit Agency Joint Development and TOD Policy Refinement
- Ongoing Collaboration and Performance Tracking

Products

Ordinances, regulations, updated small area plans, policy documents, and municipal codes

Relationship to other plans and MPO activities

Supports largest project in 2040 MTP

Proposed budget and level of effort

Proposed budget:

Federal \$1,691,615

State: \$0

Local Match – GoTriangle: \$400,000

Local Match – Chapel Hill: \$89,350 in-kind commitment of staff time

Local Match – Durham: \$44,035 in-kind commitment of staff time

Local Match – TJCOG: 20% of project costs from the Triangle Partnership for Development and Infrastructure revenues

Total Budget: \$2,225,000