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*Burlington-Graham  
Metropolitan Planning Organization*

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**DRAFT UNIFIED PLANNING WORK PROGRAM**

**FISCAL YEAR JULY 1, 2021 – JUNE 30, 2022**

**ADOPTED \_\_\_\_\_**

**FUNDS FOR THIS PLANNING WORK PROGRAM PROVIDED BY**

**FEDERAL HIGHWAY ADMINISTRATION  
FEDERAL TRANSIT ADMINISTRATION  
NCDOT PUBLIC TRANSPORTATION DIVISION  
CITY OF BURLINGTON**

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# BGMPO Unified Planning Work Program

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Prepared by the Burlington-Graham Metropolitan Planning Organization. For more information regarding this plan or any other BGMPO activity, please contact us at: Burlington-Graham Metropolitan Planning Organization, PO Box 1358, Burlington, NC 27216-1358. Visit our website for the most up-to-date information and downloadable documents at: [www.bgmpo.org](http://www.bgmpo.org).

## BGMPO Unified Planning Work Program

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### Overview

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This document presents the FY 2021 - 2022 Unified Planning Work Program (UPWP) for the Burlington-Graham Metropolitan Planning Organization (BGMPO) study area. It delineates the activities to be accomplished during the period of July 1, 2021 through June 30, 2022, the funding requirements, and the work elements of the FY 2021 - 2022 UPWP.

### Resolutions Certifying the Planning Process and UPWP

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As part of the annual UPWP adoption process, the BGMPO TAC is required to approve the FY2021 – 2022 BGMPO UPWP and to certify that it adheres to the 3-C transportation planning process. The resolutions adopting the UPWP and certifying the transportation planning process is included as part of this work program.

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## Public Involvement and Title VI

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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 MTP, the short-term TIP, and the annual UPWP. Emphasis is placed on broadening participation in transportation planning to include key stakeholders who have not traditionally been involved, including the business community, members of the public, community groups, and other governmental agencies. Effective public involvement will result in opportunities for the public to participate in the planning process.

A Call for Project submittals for consideration of PL, 5307 and 5303 funding was made December 2020. Public input and comments are requested in accordance with the adopted BGMPO Public Involvement Plan by legal advertisement posted in the Burlington Times News. Hard copies of the draft UPWP will be made available upon request or electronically via a link on the BGMPO website at <http://www.bgmpo.org>.

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## Background

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The Metropolitan Planning Area (MPA) is the boundary in which the transportation planning process must be carried out. The MPA is made up of the census-defined Urbanized Area (UZA), plus the contiguous area expected to become urbanized within the next 20 to 25 years. A census-defined UZA consists of a central core (for the Burlington-Graham MPO the central core are the cities of Burlington and Graham) and the adjacent densely settled area that combined has a population of 50,000. The Burlington-Graham area was designated an urbanized area by the US Bureau of Census in 1974. As a result of this designation, the Burlington-Graham area formed the BGMPO by Memorandum of Understanding (MOU) in 1975. With this new designation came the responsibility of adhering to federal continuing planning requirements.

A revised MOU was executed between the cities of Burlington, Graham, and Mebane; the counties of Alamance, Guilford and Orange; towns of Elon, Gibsonville, Whitsett, Green Level and Haw River; Village of Alamance and the North Carolina Department of Transportation (NCDOT) in 2012. The MOU outlined responsibilities, established the City of Burlington as the Lead Planning Agency (LPA), and created a Technical Coordinating Committee (TCC) and Transportation Advisory Committee (TAC) to ensure coordination between the MPO, elected officials, and member agency planning staffs.

The BGMPO is required to prepare an annual UPWP that details and guides the work tasks undertaken within the fiscal year. The UPWP is funded in part by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). The federal funds are distributed to NCDOT and reallocated to state MPOs on an annual basis. These funds must be approved by the MPO TAC as part of the UPWP approval process. FHWA Section 104(f) planning funds are used by the LPA to support MPO administration and planning functions. The UPWP funding source tables reflect the eighty-percent (80%) FHWA funding and twenty-percent (20%) non-federal matching funds. The sources of funds for transit planning are the FTA Section 5303 and 5307 grants. Transit agencies can also use portions of their Section 5307 capital and operating funds for planning. The match is provided through either local or state funds or both.

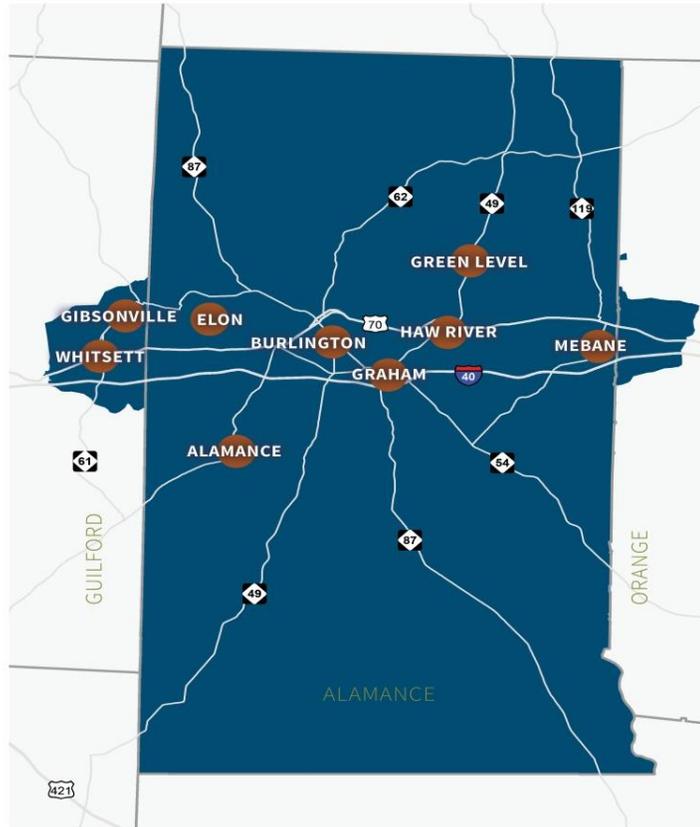
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## BGMPO Area Boundary

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The current BGMPO study area (Figure 1) encompasses over 435 square miles and includes all of Alamance County and portions of Guilford and Orange counties. The City of Burlington is the major population and employment center in the region. Like many urban areas, rapid growth and development have contributed to ever-increasing needs in transportation. By federal definition, the MPO's planning area must at least include the urbanized area (as defined by the U.S. Census Bureau) and the contiguous area that may reasonably be expected to become urbanized in the next 20 years.

Figure 1



### Metropolitan Planning Factors and Federal and State Requirements

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

1. Supports the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increases the safety of the transportation system for motorized and non-motorized users;
3. Increases the security of the transportation system for motorized and non-motorized users;
4. Increases the accessibility and mobility of people and for freight;
5. Protects and enhances the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhances the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promotes efficient system management and operation;
8. Emphasizes the preservation of the existing transportation system.
9. Improves the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation; and
10. Enhances travel and tourism.

## FAST Act Planning Factors

Pursuant to the Moving Ahead for Progress in the 21st Century Act (MAP-21) Act enacted in 2012 and the Fixing America's Surface Transportation Act (FAST Act) enacted in 2015, state Departments of Transportation (DOT), MPOs, and public transportation providers must apply a transportation performance management approach in carrying out their federally-required transportation planning and programming activities with the goal of achieving the most efficient and effective use of transportation funding. FAST Act retains the previous eight factors that should be considered when developing plans and programs and adds three planning factors. The following outlines the eleven factors:

- Support economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
- Increase the safety of the transportation system for motorized and non-motorized users;
- Increase the security of the transportation system for motorized and non-motorized users;
- Increase the accessibility and mobility of people and for freight;
- Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
- Promote efficient system management and operation;
- Emphasize the preservation of the existing transportation system;
- Improve transportation system resiliency and reliability;
- Reduce (or mitigate) the storm water impacts of surface transportation; and
- Enhance travel and tourism.

## Moving Toward Performance Based Planning

The U.S. Secretary of Transportation, in consultation with stakeholders, established performance measures to chart progress toward accomplishment of national goals established in MAP-21. In accordance with 23 CFR 450.324(f)(3)-(4)(i)(ii) of the Planning Rule, MPOs must include a description of the applicable performance measures and targets in their metropolitan transportation plans. Performance targets established by NCDOT and the BGMPO are based on the national performance measures guidance with the goals to improve decision making and project funding efficiency through performance-based planning and programming. The MPO work plan activities outlined in this document are aligned with the FAST Act national goals.

The regulatory changes to the planning process are intended to improve transportation investment decision-making through increased transparency (through the requirement of performance targets) and accountability (via a requirement to report on progress toward meeting targets) and to support a core set of national goals. State DOTs and MPOs are free to adopt additional locally defined performance measures and targets through a coordinated process that also includes transit service providers.

Additional performance plans are now required under MAP-21 for the BGMPO include the:

- Metropolitan System Performance Report
- Transit Asset Management Plan
- Target Achievement
- Special Performance Rules – performance elements related to safety (high-risk rural roads and older drivers and pedestrians), Interstate Pavement Condition, and National Highway System Bridge Condition
- Performance Reporting – MPOs must report to NCDOT its progress toward achieving targets and NCDOT will assess such progress

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## BGMPO Unified Planning Work Program

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Moreover, MPOs and public transportation service providers are required to establish performance targets and to coordinate the development of these targets to ensure consistency. The BGMPO current performance measures are included in the 2045 Metropolitan Transportation Plan described below.

### Metropolitan Transportation Plan

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The Metropolitan Transportation Plan (MTP) is a long-range plan for transportation improvements across the region. This plan includes roadway, transit, bicycle, pedestrian, aviation, freight, and other transportation projects expected to be constructed within a minimum 20 to 25-year planning horizon. The BGMPO is required to update its MTP required every five years. The BGMPO 2045 MTP was developed over a sixteen-month period which began March 2019 and ended with final plan adoption on June 16, 2020. The planning process involved the general public, member jurisdictions, key stakeholders, the TCC and TAC, NCDOT and federal and state regulators.

### Metropolitan Transportation Improvement Program

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The BGMPO is also responsible for developing a Metropolitan Transportation Improvement Program (TIP). The TIP is a financially constrained program for addressing transportation priorities within a five-year time horizon consistent with the MTP. The TIP is regional in scope and lists the construction and anticipated funding schedule for each included project. Project phases can include preliminary engineering, design, environmental review, right-of-way acquisition, and construction. The TIP must include the following:

- A list of proposed federally supported projects and strategies to be implemented during the TIP reporting period to include project schedules and costs.
- A proactive public involvement process.

### Air Quality Conformity Process

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Transportation-air quality conformity ("conformity") is a way to ensure that federal funding for transportation improvements are consistent with regional air quality goals. Conformity applies to MTPs and TIPs and to projects funded or approved by the FHWA or FTA in areas that do not meet -- or have recently not met -- air quality standards for ozone, carbon monoxide, particulate matter, or nitrogen dioxide. These areas are known as "non-attainment areas" or "maintenance areas," respectively. A conformity determination demonstrates that the total emissions projected for a plan or program are within the emissions limits ("budgets") established by the State Implementation Plan (SIP) for air quality, and that transportation control measures – specific projects or programs enumerated in the SIP that are designed to improve air quality – are implemented in a timely fashion.

A portion of the BGMPO planning area that falls within the Triangle region boundary is currently designated as a "maintenance area" for the 8-hour ozone standard. The BGMPO will continue to implement activities, including air quality analysis and conformity determination in its MTP and TIP. The BGMPO will work with the FHWA and NCDOT in making conformity determinations by performing systems level conformity analysis on the highway portion of the MTP.

### Comprehensive Transportation Plan

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Under State law (N.C.G.S. § 136-66.2), for municipalities and counties, or portions thereof, located within an MPO planning area, the development of a Comprehensive Transportation Plan (CTP) is the responsibility of NCDOT. The CTP is the element of the Metropolitan Transportation Plan that identifies unfunded regional transportation needs. The CTP is not required to be fiscally constrained and no minimum horizon year or update timeframes are specified. The BGMPO and NCDOT share the responsibility of recommending projects to ensure that transportation facilities reflect the needs of the region.

## Proposed FY 2022 UPWP Activities

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BGMPO activities and emphasis areas for the FY 2022 UPWP are summarized as follow:

- Continued NCDOT, Division and NC AMPO coordination
- Implementation of MAP-21 and Fast Act MPO requirements
- Implementation of Highway Safety Program
- Development of CommunityViz future year parcel line layer; participation in regional growth workshops; co-hosting MPO CommunityViz Workshops
- Continued P6.0 work activities associated with STI Prioritization
- Continued Title VI Program and Public Involvement Plan compliance
- Monitoring of MPO Transit Performance Measure Targets and TAM Plans
- Continued administrative tasks – TCC and TAC coordination, UPWP, GIS, etc.
- Continued implementation and update of TIP and MTP
- Implementation of Special Studies
- Continued of data collection/inventory and assessment of travel behavior patterns
- Development of P7.0 project selection criteria
- Other Comprehensive, Cooperative, and Continuing (3-C) initiatives eligible for Federal transportation funding

## FY 2022 Special Emphasis Projects

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Special emphasis projects and new initiatives for the FY2022 UPWP are described below:

### **Special Studies**

The BGMPO annually designates a portion of planning funding for Special Studies. Special Studies include staff time for project management activities to ensure consistency with FHWA, FTA and NCDOT procurement requirements and intergovernmental project coordination. At least two specials studies are anticipated in FY 2021 – 2022. The MPO anticipates soliciting consultants to assist MPO staff and member jurisdictions with project implementation on an as-needed basis (on-going throughout fiscal year).

#### US 70 West Multimodal Corridor Study

This study would analyze the US 70 Corridor from NC-119 Bypass - Lake Latham Road intersection - in Mebane to the NC-751 intersection. The study will evaluate existing multimodal corridor needs, existing and future regional travel needs, safety improvements, potential transit service and facilities, and the community vision and desires for this portion of the US 70. Prior corridor studies have not addressed the need to identify designated non-arterial (local) streets access points for residents and businesses (access management). Additionally, there are potential opportunities for transit improvements with connections to other regional transit service extending to Durham, RTP, RDU or Raleigh. The project sponsors are identified as the City of Mebane, Town of Hillsborough, Orange County, DCHC MPO and BGMPO, and NCDOT. The study would commence early 2022 and conclude summer 2023, thus spanning two UPWP fiscal years.

#### BGMPO Highway Safety Plan

The BGMPO will develop a Highway Safety Program with the objectives of raising awareness and changing public attitudes, behaviors and transportation systems to improve traffic safety within the region. The overriding goal of the program is to achieve zero traffic deaths in the BGMPO by 2050 aligning the MPO with the North Carolina Strategic Highway Safety Plan. Approval to develop and implement the program was granted by the TAC, October 2020. A component of the program is to develop a regional Highway Safety Plan. The BGMPO will develop the plan in collaboration with and support of NCDOT's Vision Zero initiative with the goal to reduce the human and economic toll on the region's multi-modal transportation system due to transportation crashes and injuries. The plan's scope will include evaluating risk reduction measures – transportation engineering, traffic enforcement, public awareness and education, and assessing travel behavior patterns – in an effort to improve

transportation safety. The plan will also establish performance measurement baselines and an evaluation criterion to assess progress towards meeting or exceeding performance targets. The proposed project schedule for developing the plan is July 1, 2021 – March 31, 2022.

### **Data Collection and Management**

The MPO is required by federal regulations and the 3-C process to perform continuous data monitoring and maintenance. The purpose of this task is to collect, maintain and analyze traffic count, regional land use, socio-economic and environmental data that will be used in regional demographic forecasting, transportation planning, land use planning, air quality planning, emergency planning, Title VI and economic development efforts. BGMPO will continue to participate, provide input to member jurisdictions and agencies in the development of local comprehensive plans, and provide guidance to NCDOT Project Development and NEPA on land use and zoning issues affecting the project development and process.

#### Regional Traffic Count Program

The BGMPO, in cooperation with the City of Burlington, will use traffic cameras for (13-hour) full-turning movement counts and submit the data to a private contractor for analysis. All of the proposed count sites will be scheduled on a biennial schedule. The traffic count data will be part of the metrics used to measure performance targets under MAP-21 and included in our Piedmont Regional Travel Demand Model update, as well as to fill a jurisdiction's particular need. In addition to the regularly schedule traffic counts, numerous other special counts will be taken to support specific transportation planning projects, or at the request of local governments for various reasons. 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, project development, Title VI planning, EJ/LEP demographic profiles, TIP, project prioritization, etc.

The BGMPO re-evaluated its traffic count program in an effort to begin a comprehensive and systematic approach to data collection and management, to be consistent with statewide traffic data collection, and for use in the regional travel demand model. Expansion of traffic count location program will be delayed to the next fiscal year due to Covid-19 traffic variabilities.

#### Piedmont Triad Regional Model (PTRM) – Travel Demand Model Enhancement

The Piedmont Authority for Regional Transportation (PART), in coordination with NCDOT, is the custodial manager of the BGMPO Regional Travel Demand Model (RTDM). The travel demand model program consists of four elements: the RTDM, the Advanced Freight Model (AFM), the Transit Boarding and Estimation Simulation Tool (TBEST) and CommunityViz Scenario Model (CVSM). The program is jointly funded by MPOs within the Triad area. The BGMPO assists PART in the collection and analysis of socio-economic and travel characteristics data to determine future year travel demand. Specifically:

- Assisting member jurisdictions with review of parcel tagging and verifying application of appropriate suitability factors for the Piedmont Triad CommunityViz Model
- Coordination with the integration of the Piedmont Triad CommunityViz Model for updating SE data and forecasts used by the travel demand model
- Review and update SE data with the Piedmont Triad CommunityViz and other data from different sources
- Tracking and documenting population estimates and projections from Office of State Budget and Management and socioeconomic databases
- Utilizing NCDOT shapefiles and HERE data to update attributes of the travel demand network
- Obtaining Phase III freight data such as truck count data and survey data for the calibration and validation of the freight tour-based model
- Completing Household Travel Survey data collection for inclusion in Regional Travel Demand Model

### **Targeted Planning**

The BGMPO's Complete Streets Initiative creates a safe and efficient transportation network that promotes the health and mobility of all residents and visitors by providing safe, high quality multimodal (pedestrian, bicycle, transit and automobile) access throughout the region. The BGMPO will take the necessary steps to assess the pre-

and post-conditions of our Complete Streets projects during the prioritization process and project scoping meetings for STIP committed projects. Metrics related to the mobility, safety, health and sustainability, and economic vitality will be used to evaluate the success of all of our future projects. As part of the Complete Streets Initiative, the BGMPO also will conduct walking and bike audits, trainings and hosts community engagement events to promote active transportation. Additionally, the BGMPO provides technical assistance to its partners by offering workshops and attending Healthy Alamance meetings, trainings and workshops. To complement these efforts, the BGMPO will create develop P7.0 project selection criteria that to guide investments in Complete Streets and prioritizes active transportation projects.

### **Title VI Planning**

The purpose of this work task is to ensure that no person will, on the grounds of race, color, national origin, income, gender, age, and disability, as provided by Title VI of the Civil Rights Act of 1964 and the Civil Rights Restoration Act of 1987 (PL 100.259), be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity administered by the BGMPO. The BGMPO will update its Title VI and Limited English Proficiency (LEP) Program Plans to ensure consistency with current guidelines and continue to monitor the Title VI program and implement Title VI Assurance.

### **Anticipated DBE Contracting Opportunities for FY 2020 – 2021**

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The BGMPO is anticipating two Special Studies contracting opportunities for Disadvantaged Business Enterprises (DBEs) for FY 2021-2022. It is the policy of the BGMPO to ensure that DBEs as defined in 49 CFR Part 26 have an equal opportunity to receive and participate in federally-assisted contracts. Implementation of the DBE program is in compliance with all other legal obligations incurred by the BGMPO in its financial assistance agreements with the Department of Transportation. Contracting opportunities will be distributed to DBE and non-DBE business communities that perform work for the BGMPO on federally assisted contracts. The dissemination will be accomplished by posting a link on the BGMPO website and through targeted bid solicitations.

### **BGMPO Administration and Management**

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The BGMPO has a “hosted” administrative structure. The MPO is housed within the City of Burlington and the City acts as the fiscal agent for the MPO. Although hosted, the BGMPO retains a separate name and identity from that of its host. In recent years, federal and state legislation, regulations, and technological innovations have increased the complexity of the BGMPO activities and work tasks. The BGMPO functions include preparing planning and programming documents, procurement, general agency administration, staff training, managing and serving on project team and steering committees, and conducting public involvement to engage the public in the activities and decision-making processes of the MPO.

### **FY 2022 UPWP Funding Source**

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FY 2022 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, and require a 20% local 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 FAST-ACT Section 104(f) allocation. The statewide section 104(f) funds are distributed among all MPOs based on a formula. The BGMPO PL fund allocation for FY2022 is below:

PL Section 104(f) Federal Funds (80%) \$261,493  
Local match/City of Burlington (20%) \$65,373  
**Total \$326,867**

**FTA Funds** - Two types of funds are used for transit planning purposes by the BGMPO; Section 5303 and Section 5307 funds administered through the Federal Transit Administration (FTA) and the NCDOT Public Transit Division. The BGMPO is served by four regional and one fixed route transit systems: Orange County Public Transportation (OPT) serves all of Orange County and parts of Alamance County. Go Triangle operates a regional bus service connecting Durham to Raleigh, Chapel Hill, Apex, Hillsborough, and Wake Forest. The Alamance County

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Transportation Authority serves the transportation needs of the elderly, disabled, and general public in Alamance County. The Authority utilizes vans and buses which are ADA equipped, including wheelchair lifts, to assist persons with specialized needs. The Piedmont Authority for Regional Transportation (PART) Alamance Burlington Express connects Greensboro, Burlington, Graham, Mebane, and Chapel Hill and the Burlington Link Transit serves Burlington, Gibsonville, and Alamance Community College. At the time of the draft UPWP, the previous FTA fiscal year distributions are listed as the FY21 allocations are not yet known.

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

**Federal (80%)** \$53,980  
**State (10%)** \$43,184  
**Local/City of Burlington (10%)** \$5,398  
**Total Sect. 5303** \$5,398

**Section 5307** funds can be used for transit planning as well as other related purposes, and are distributed by formula by FTA. Transit providers are eligible to use Section 5307 funds from the FTA for assistance on a wide range of planning activities. These planning funds require a 20% local match.

**Federal (80%)** \$120,000  
**Local/City of Burlington (20%)** \$30,000  
**Total Sect. 5307** \$150,000

## UPWP Work Items

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### **II-A Data Management and Planning Support**

**Objective:** To monitor travel and development patterns in order to determine growth areas and identify potential transportation/congestion management issues and intermodal linkages.

**Programmed Amount: \$68,000**

**21% Staff Budget**

- II-A-1 (Traffic Volume Counts) Traffic data is needed for continuous and on-going MPO planning activities. The work task includes annual intersection counts for maintenance and monitoring of the computerized signal system. Traffic count data analysis will be made available to PART, the NCDOT, and member jurisdictions upon request. Counts will include intersection turning movement and average daily traffic counts as needed.
- II-A-1 (Street System Change) As development continues and travel demand boundaries are modified, the MPO will monitor regional street network changes for revisions and updates to the MTP, CTP and/or MPO planning activities. This work task also involves the review of construction project schedules, participation in project scoping meetings and NCDOT routine coordination.
- II-A-1 (Traffic Accidents) Use NCDOT Crash Data as needed for planning studies, mapping high accident locations, and developing infographics.
- II-A-1 (Transit System Data) Short-range and mid-range transit planning efforts will be conducted by the MPO in cooperation with regional transit providers. Data will continue to be collected to inform various transit planning efforts to include the evaluation of transit service performance, development of cross-regional route(s), universities/college route(s) and urban service routes that extend beyond the boundaries of the general BGMPO area. Data collected will be used to monitor service to meet NCDOT and FTA reporting requirements. The MPO will continue to assist and support the transit planning and administration of the Link fixed route system.

II-A-1 (Mapping) Create and maintain GIS mapping of MTP, TIP, CTP, TAZ and census data maps for the MPO.

II-A-1 (Bicycle & Pedestrian Inventory) Assist with area-wide bike and pedestrian improvement projects and update MTP accordingly. Conduct activities associated with the Highway Safety Program. Identify grant programs for MPO members to participate/apply.

**II-A-2 Travelers and Behavior**

**Objective: To improve the quality of transportation plans and other planning endeavors in the BGMPO planning area through ongoing collection and maintenance of data related to existing and proposed land uses and evolving socioeconomic conditions affecting transportation planning.**

II-A-2 (DU/Population & Employment Changes) Review, analyze, and evaluate information collected from census data, private and public demographic databases and other sources as it is available and required for transportation planning efforts.

II-A-2 (Collection of Base Year Data) Monitor changes that are related to planning tasks within the MPO planning boundary. Compare existing characteristics with projections to anticipate planning needs and activities. Continue to build and maintain a data repository of information to support local and regional transportation efforts. This task is also supported by the Piedmont Triad Regional Travel Model process via the Piedmont Authority for Regional Transportation (PART). Evaluate by TAZ if needed to determine population, housing density, employment, etc.

II-A-2 (Travel Time Surveys) This work task will be conducted by PART in cooperation with area Triad MPO's. Travel surveys will collect origin and destination data used for travel demand modeling.

II-A-2 (Capacity Deficiency Analysis) Collect and review existing and traffic forecasts and the travel demand model to evaluate systemwide LOS conditions. This data will be used to evaluate transportation improvements and develop problem statements (purpose and need) for priority projects.

**II-A-3 Transportation Modeling**

**Objective: To assist in maintaining the Piedmont Triad Regional Model (PTRM) for the BGMPO planning area that provides capacity to perform simulations and scenario planning on a continuing basis for examining localized modeling for traffic activity within the BGMPO planning area.**

II-A-3 (Travel Model Update) The MPO will continue to coordinate with the NCDOT, PART and regional MPO's to develop the regional travel model and assist as needed in assessment of transportation modeling databases and planning tasks to be completed for long range planning updates. The MPO will utilize the updated regional model in cooperation with all model team members and provide staff support and financial resources for model maintenance. Consultants may be contracted to provide additional model support during the year.

II-A-3 (Forecast of Future Travel Patterns) Review of transportation planning documents, ITS studies and new technologies for impacts to future travel patterns. Testing of alternative/future travel patterns is also an element in the Regional Model and CTP Update task. Provide guidance and expertise on the variables and characteristics of travel behaviors and encourage modal choice.

II-A-3 (Financial Planning) Update and adjust cost estimates on regional projects as needed based on NCDOT's spending plan. The MPO will develop realistic, best estimates of funding sources available and project cost estimates throughout the forecast years for the STIP, MTP and TIP and other pertinent planning efforts. Monitor and adjust cost estimates prepared for MTP Horizon Year tables.

**II-B Planning Process**

**Objective:** To plan for efficient movement of people and goods through linkages between modes of transportation by updating both the MTP and CTP; to examine transportation system deficiencies and determine areas of congestion (incident and recurring) throughout the urban area, which may be reduced by congestion management techniques and strategies, making more efficient use of the existing transportation system including times of emergencies to include improvements in the City of Burlington signal system.

**Programmed Amount: \$105,000**

**32% Staff Budget**

II-B-1 (Air Quality Planning/Conformity Analysis) Monitor regulatory agencies and review proposed standards - in combination with the Triad and Triangle Modeling effort. The MPO staff also monitored state and federal air quality regulations and their relationship to the Travel Demand Model process. Participation on the Triad Interagency Coordination Team and consultation process.

II-B-1 (Freight Movement / Mobility) Regional Freight Study Phase III that the MPO will use to better integrate freight and goods movement into the regional transportation planning process. Freight policies, strategies, and projects specific to BGMPO region identified in the study will be incorporated into the next update of the MTP and MTIP. Freight deficiencies and improvement strategies will be developed. This work is also associated with the Model Development work task.

**II-B-2 Regional Planning**

**Objective:** To increase public awareness and implement the shared vision of the BGMPO planning area in 2045, particularly focused on enhancement of identified multimodal corridors and systems.

II-B-2 (Community Goals & Objectives) - Conduct open TCC and TAC meetings to allow public input and community involvement. The MPO will work with member agencies and the public to gather community input on the region's transportation goals and objectives for all modes.

II-B-2 (Highway Element of the MTP) - Continue update of traffic data for MTP/CTP and Travel Model. Incorporate the Comprehensive Transportation Plan mapping and descriptions.

II-B-2 (Transit Element of the MTP) - Collect, analyze and store data necessary for conducting a viable transit planning process. Coordinate local and regional transit planning activities, and encourage citizen knowledge and awareness of public and private transit services.

II-B-2 (Bike & Ped Element of the MTP) - Work with MPO partners to update bike and pedestrian maps as needed. Work with MPO partners to consider local bike and pedestrian plans for future adoption.

**II-B-3 Special Studies**

**Objective:** To examine specific projects involving multimodal issues and linkages with land use, as well as factors that affect future growth patterns, economic development, community design, and impacts on the transportation systems (special area plans, traffic impact studies, corridor studies, CTPs, etc). The MPO will conduct and assist member jurisdictions conducting transportation planning studies on an as-needed basis pending TAC approval.

**III-A Planning Work Program**

**Objective:** To maintain the current fiscal year UPWP and develop a UPWP on an annual basis.

**Programmed Amount: \$12,500**

**4% Staff Budget**

III-A-1 (Planning Work Program) MPO staff will continue to develop a draft UPWP; present draft UPWP to TCC and TAC for review and adoption; evaluate, administer, and amend the final UPWP as

necessary; and, develop quarterly reports and invoices to NCDOT for reimbursement of planning funds. Prepare UPWP amendments and corresponding resolutions as needed.

**III-B Transportation Improvement Program**

**Objective: To maintain the Transportation Improvement Program (TIP) and appropriate revisions as needed through the Strategic Prioritization Process and STIP updates; to develop the TIP with a comprehensive update for adaption every five years.**

**Programmed Amount: \$40,000**

**12% Staff Budget**

III-B-1 (Prioritization/Transportation Improvement Program) Continue to refine the previous year TIP based on NCDOT program changes, satisfying federal and state requirements. Prepare and process changes or amendments necessary. Staff will participate as necessary in workshops, training, and meetings regarding the NCDOT prioritization process (Ongoing throughout fiscal year). Coordinate with SPOT Office and member jurisdictions with development of draft STIP and TIP. Monitor TIP and MTP and present updates based upon STIP updates and amendments.

**III-C Civil Rights Compliance/Other Regulations**

**Objective: To continue active citizen education, participation and underrepresented populations involvement in all aspects of the BGMPO planning process.**

**Programmed Amount: \$10,000**

**3% Staff Budget**

III-C-1 (Civil Rights Compliance Title VI) The MPO will annually adopt certifications and assurances to conform to the state and federal Title VI regulations. The MPO complaint process and the access to information will be monitored for update. MPO staff will work with NCDOT's Office of Civil Rights and Business Opportunity and Workforce Development Office (BOWD) and all member governments to ensure that MPO projects and programs meet the intent of all applicable Title VI legislation.

III-C-2 (Environmental Justice) Review and monitor public participation processes for environmental justice compliance. Evaluate Public Involvement Plan and project planning for updates or improvements.

III-C-3 (Disadvantaged Business Enterprise/Minority Business Enterprise) Develop procurement programs and adhere to federal, state and local policies regarding the active participation of disadvantaged and minority businesses in MPO solicitations.

III-C-6 (Public Involvement) To increase public participation in the metropolitan transportation planning process especially from those segments of the population that are considered to be traditionally underserved through a comprehensive public outreach program in accordance with the Public Involvement Plan; increase public awareness of the MPO and its role; increase the opportunities for public involvement; and update the Public Involvement Plan as necessary.

**III-D Statewide and Extra-Regional Planning**

**Objective: To support statewide and regional transportation and related planning efforts. To foster better coordination of planning efforts across jurisdictional boundaries, promote better informed decision-making by policy makers and an informed general public. To support implementation of the 2045 MTP.**

**Programmed Amount: \$10,000**

**3% Staff Budget**

III-D-1 (Regional & Statewide Studies) Coordination with federal, state and regional stakeholders on various transportation planning efforts.

**III-E Management Operations/Program Support Admin.**

**Objective:** To effectively and efficiently administer and manage initiatives of the MPO, facilitate TAC and TCC advisory committees and subcommittees; ensure compliance with federal and state requirements with regard to MPO activities; special studies procurement; review and development of various reports; staff training and resources to conduct MPO activities.

**Programmed Amount: \$81,367**

**25% Staff Budget**

III-E

(Incidental Planning & Project Development/Operations)

To maintain an effective and efficient continuing, cooperative and comprehensive (3-C) transportation planning process in the administration and operation of MPO duties and functions. Monitor of state and federal transportation legislation, assist in the procurement of MPO and member jurisdiction special studies. Facilitate and attend MPO-meetings, webinars, workshops and conferences. Technical review and analysis of transportation plans and documents. TCC and TAC member coordination to include the facilitation of meetings and public hearings, public notification and website maintenance and updates. Provide technical services in support and maintenance of GIS data layers, shapefiles and geodatabases.

(Travel)

Given the increased risk exposure inherent in traveling, the BGMPO will discourage business travel and follow local and state travel policies related to COVID-19. NCDOT has implemented a pre-approval procedure to review the eligibility for all training paid with federal funds unless included in the UPWP. The BGMPO anticipates attending the following virtual events, meetings, conferences and training in addition to those that are reasonable and necessary for the normal course of business:

- NCAMPO (conference and all other meetings/events)
- AMPO (conference and all other meetings/events)
- TRB (conference and all other meetings/events)
- AASHTO (conference and all other meetings/events)
- NHI (conference and all other meetings/events)
- NTI (conference and all other meetings/events)
- APA (conference and other meetings/events related to transportation/land use/tech skills/law/ethics)
- APA-NC (conference and other meetings/events related to transportation/land use/technical skills/law/ethics)  
Alamance Community College (continuing education/professional certification classes)
- USDOT (conference and all other meetings/events)
- NCSU – ITRE (training and all other meetings/events)
- ESRI (conference and other meetings/events related to transportation/land use/tech skills/law/ethics)
- Caliper (conferences and other meetings/events related to transportation/land use/tech skills)
- NCDOT (meetings/classes/summits/workshops/workgroups/public meetings/steering committees, etc.)
- MPO/RPO (regional or division wide meetings)
- Member jurisdictions (transportation related public meeting, workshops, events, steering committees, etc.)

BGMPO FY 2021 Funding Summary and Budget

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