

**UNIFIED PLANNING WORK PROGRAM  
FOR TRANSPORTATION PLANNING  
FY 2012 PROJECTS AND BUDGETS  
FOR  
HOWARD COUNTY**

**(\$445,440)**

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**PROJECT: UPWP MANAGEMENT**

**PURPOSE:** This task involves managing, coordinating, and guiding the various technical activities related to the UPWP and the regional transportation planning process. These work efforts are carried out through a variety of means including direct involvement in planning activities and support to the multi-disciplined and multi-agency committees essential to a coordinated process. These activities specifically include management of the current fiscal year work program and budget, preparation of detailed work programs, and preparation of quarterly progress reports.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Manage Howard County’s local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2013 UPWP grant application and associated contracts in conjunction with all pertinent federal, state, and local agencies.
4. As necessary, participate in seminars, workshops, and short courses designed to develop technical skills and broader perspectives on transportation-related subjects.

PRODUCTS/MILESTONES	SCHEDULE
Quarterly progress reports, invoices, audit preparation and other financial reports for FY 2013 UPWP	Throughout Fiscal Year
Budget amendments for FY 2013	As Necessary
Howard County FY 2013 UPWP submittals	2 <sup>nd</sup> Quarter
Completion of formal grant acceptance process for FY 2013	4 <sup>th</sup> Quarter

**PARTICIPANTS:** Howard County

**BUDGET:** \$7,620

**PROJECT: LEGISLATIVE COORDINATION AND ANALYSIS**

**PURPOSE:** To review, analyze and respond to proposed federal or state legislation or changes in existing legislation related to transportation or air quality issues. The intent is to provide decision makers with background information and impacts that the proposal could have on the county, region and state.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Provide timely review and analysis of proposed legislation and changes to existing legislation related to transportation.
2. Prepare briefing memoranda for decision makers on the potential impacts of the proposed legislation.

PRODUCTS /MILESTONES	SCHEDULE
Provide timely analysis and policy implications on proposed state and federal legislation	Throughout Fiscal Year

**PARTICIPANTS:** Howard County

**BUDGET:** \$10,000

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**PROJECT: COOPERATIVE FORECASTING PROCESS**

**PURPOSE:** To generate socio-economic and demographic data for the regional forecasting process. To provide technical input to the Cooperative Forecasting Group (CFG) that is responsible for reporting updates to changes in local land use patterns and associated developments in the region.

In FY 2007, the CFG developed population, household, and employment forecasts for each jurisdiction by small area for 2000 through 2035. These forecasts were used in the creation and testing of the 2007 Baltimore Region Long Range Transportation Plan. Local planning staffs will continue the development of these data during FY 2012 as part of Round 8 Cooperative Forecasts, 2000 – 2035. They will report on their progress periodically to the CFG, the Technical Committee, and the BRTB.

During FY 2012, local planning staffs will work with BMC staff and the U.S. Census Bureau to review proposed statistical areas and assist in the development of 2012 transportation analyses zones.

Additionally, during FY 2012, local planning staffs will conduct quality control reviews and updates on the 2010 ES-202 and submit these changes to BMC staff to complete the development of the 2010 Master Establishment File (MEF).

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones for 2000 – 2035.
2. Provide updates where necessary on major new developments or facilities that impact existing forecasts.
3. Prepare documentation on population, household and employment forecast methodologies.
4. Assist BMC staff in the development of 2012 transportation analysis zones and their relationship with 2012 census statistical geography.
5. Conduct quality control review on the 2010 ES-202 file and return results to BMC staff.

PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 <sup>nd</sup> Quarter
Document methodologies used to generate forecasts	3 <sup>rd</sup> Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2012 transportation analysis zones based on census statistical geography	1 <sup>st</sup> Quarter
Conduct quality control review and update to 2010 ES-202 and submit results to BMC staff for inclusion in the 2010 MEF	4 <sup>th</sup> Quarter

**PARTICIPANTS:** Howard County

**BUDGET:** \$76,230

**PROJECT: BICYCLE AND PEDESTRIAN PLANNING**

**PURPOSE:** Provide local assistance in integrating bicycle and pedestrian considerations into the overall planning and programming processes of the state, regional and local jurisdictions.

Howard County will assist the Bicycle and Pedestrian Advisory Group in the identification of appropriate opportunities to integrate bicycle and pedestrian travel options within a regional framework. Howard County will examine opportunities to incorporate bicycle and pedestrian uses along county roads, greenways and other non-motorized corridors. Promotional and educational efforts will also be used to increase awareness for bicycle and pedestrian opportunities.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Assist in development of regional work plan for analysis of regional bicycle network.
2. Support Bicycle/Pedestrian Advisory Group in reviewing regional opportunities.
3. Support activities related to enhanced greenways planning, along with opportunities to include pedestrian and bicycle activities.
4. Work with local bicycle groups to encourage non-motorized transportation alternatives.

PRODUCTS/MILESTONES	SCHEDULE
Joint activity on work programs and other efforts related to the regional bicycle/pedestrian plan	Throughout Fiscal Year
Other studies and analyses to support regional efforts	Throughout Fiscal Year

**PARTICIPANTS:** Howard County

**BUDGET:** \$3,810

**PROJECT:   TRANSPORTATION IMPROVEMENT PROGRAM**

**PURPOSE:** This project develops Howard County’s component of the annual Transportation Improvement Program (TIP), revisions to Howard County’s component of the TIP and review and comment on the regional TIP. The task also includes review and comment regarding proposed TIP amendments during the fiscal year.

**FY 2012 PERFORMANCE OBJECTIVES:**

1.     Develop Howard County’s annual submission to the TIP including assessment of all federally-funded projects.
2.     Review and comment on the Draft 2013-2016 TIP.
3.     Revise and correct TIP submission as needed.
4.     Review and comment on all TIP amendments as submitted throughout the fiscal year.

PRODUCTS/MILESTONES	SCHEDULE
Review and comment on proposed TIP amendments	As Needed
Submit local TIP component of 2013-2016 document	3rd Quarter
Revise Howard County local TIP component per comments and review draft TIP document	3rd Quarter
Final revisions to 2013-2016 TIP	4th Quarter

**PARTICIPANTS:**   Howard County

**BUDGET:**            **5,080**

**PROJECT: REGIONAL FREIGHT ANALYSIS – LOCAL INPUT**

**PURPOSE:** To coordinate and assist with the various technical and outreach activities in an effort to better understand and plan for improvements to the regional freight network.

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 As an outgrowth of the *Imagine 2060* process, establishing a vision for the Baltimore region, feedback from a range of stakeholders led the BRTB to undertake a regional freight analysis to understand the transportation network supporting the movement of goods through and within the region as well as identify regional priorities to maintain and enhance the system.

Throughout FY 2012, local government staff will assist BMC staff and consultants in efforts to access both local data and expertise, including the private sector. Tasks will include meeting logistics, attendance and preparation/review of technical materials.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Contribute data and identify stakeholders.
2. Identify appropriate data as requested, facilities, etc.
3. Review and comment on materials as presented.

PRODUCTS/MILESTONES	SCHEDULE
Data and stakeholder identification	1 <sup>st</sup> and 2 <sup>nd</sup> Quarter
Identify data sets, locations, zoning as requested	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

**PARTICIPANTS:** Howard County

**BUDGET:** \$5,000

**PROJECT: REGIONAL TRANSIT ANALYSIS – LOCAL INPUT**

**PURPOSE:** To assist with the various technical activities in the efforts to undertake a regional analysis of transit services and networks.

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 As an outgrowth of the *Imagine 2060* process, establishing a vision for the Baltimore region, feedback from a range of stakeholders led the BRTB to an effort where the current system would be documented, followed by short- and long-term opportunities to pursue within the region.

Throughout FY 2012, local government staff will assist BMC staff and consultants in efforts to access both local data and expertise, including the private sector. Tasks will include meeting logistics, attendance and preparation/review of technical materials.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Contribute data and identify stakeholders.
2. Identify appropriate data as requested, facilities, etc.
3. Review and comment on materials as presented.

PRODUCTS/MILESTONES	SCHEDULE
Data and stakeholder identification	1 <sup>st</sup> and 2 <sup>nd</sup> Quarter
Identify data sets, locations, zoning as requested	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

**PARTICIPANTS:** Howard County

**BUDGET:** \$5,000

**PROJECT: SUBAREA ANALYSIS**

**PART A: FOCUSED HIGHWAY AND TRANSIT FORECASTS**

**PURPOSE:** Based on the 2035 Baltimore Regional Transportation Plan assumptions, this is a multiyear task to develop baseline 2035 traffic forecasts for Howard County. The forecast results will provide a baseline of traffic forecasts and investigate the viability of various transit alternatives for the County’s General Plan update given refinement of land use assumptions in response to growth at Fort Meade, and the County’s evolution toward more complex mixed use development patterns. Integration with Anne Arundel County transportation model detail and corridor analysis will be explored to provide a more comprehensive regional analysis. Adjustments to the regional network, the regional zone structure and trip generation inputs will be pursued as needed to develop reliable transit highway simulations and facility level refinements. Modeling tasks will be done primarily by consultants using TP+ software, with advice and assistance from BMC as needed.

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- Validation of the BMC Model in Howard County will include emphasis on detailing the traffic simulation network and traffic analysis zones in Columbia Town Center, the MD 32 BRAC corridor from east of US 29 to the BW Parkway, the US 1 corridor in Howard County, and the MD 216 corridor and will provide additional testing and understanding of the performance of the revised BMC model chain.
- Modal split analysis for the MARC system and its impact on local and regional travel will be investigated.
- Methods and model codes used in testing the BMC model will be shared with all members of the Technical Committee in an effort to improve regional modeling efforts.
- Subarea analysis of individual corridors will provide refined facility level traffic forecasts that will provide base data for the regional Congestion Management Process (CMP).

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Refine BMC validation for the Howard County validation transportation network with adjustments for traffic analysis zone splits, trip generation inputs, traffic speed, capacity and link detail as needed.
2. Based on refinements to the BMC validation as applied to the year 2035 regional network and the latest Cooperative Forecasts, work cooperatively with BMC to develop year 2035 traffic zone structure, trip generation inputs and a 2035 highway network. Consultants will work independently to develop trip generation related model inputs with BMC review.
3. Using a refined 2035 Howard County highway network and inputs, run regional model to produce 2035 simulated traffic in Howard County.
4. Develop a series of screenline refinements for potential transit concepts, arterial and major collector highway facilities and selected minor collector roads.

PRODUCTS/MILESTONES	SCHEDULE
Develop detailed validation and documentation for Howard County including network detailing for Columbia Downtown, the MD 32 BRAC corridor, and the MD 216 corridor	1 <sup>st</sup> & 2 <sup>nd</sup> Quarters
A year 2035 transportation network and related trip generation inputs based on refinements to the Howard County network and alternative land use including potential transit alternatives	2 <sup>nd</sup> & 3 <sup>rd</sup> Quarters
Year 2035 unrefined simulated traffic based on the refined BMC 2020 transportation network and revised 2008 transportation model and including the impact of MARC model split and cost benefit	3 <sup>rd</sup> Quarter
Refine traffic forecasts and document refinement process	4 <sup>th</sup> Quarter

**PARTICIPANTS:** Howard County, Consultants

**BUDGET:** \$113,000

**PART B:      TRANSIT PLANNING**

**PURPOSE:**      This project evaluates the Howard Transit system service performance including route and frequency of service modifications. This initiative will allow Howard County to apply transit performance guidelines to identify cost and performance effectiveness for fixed route and paratransit operations. Route analysis will also be applied to further refine Howard Transit coordination with CMRT and the Maryland Transit Administration’s routes and schedules.

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1. Application of MTA transit standards will assist in testing the reasonableness of the standards for the Baltimore region.
2. Analysis of Howard Transit routes will emphasize regional connections with other transportation systems and modes including MTA, MARC Light Rail, CMRT and the BWI Airport.
3. Refinement of routes and schedules will strive to achieve better regional coordination with Maryland Transit Administration’s routes and schedules.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. Apply transit performance tools Howard Transit routes and schedules.
2. Evaluate all Howard Transit bus routes relative to state efficiency measures.
3. Recommend changes to Howard Transit routes and schedules as needed to meet transit performance standards and increase system efficiency and as feasible based on public feedback and funding constraints.

PRODUCTS/MILESTONES	SCHEDULE
Assemble FY 2011/2012 performance data	1 <sup>st</sup> Quarter
Produce graphics and charts of the application of efficiency measures to Howard Transit	2 <sup>nd</sup> & 3 <sup>rd</sup> Quarters
Prepare revised route maps and schedules as needed	4 <sup>th</sup> Quarter

**PARTICIPANTS:**      Howard County

**BUDGET:**              \$10,700

**PART C: BICYCLE PLAN**

**PURPOSE:** To enhance and augment the Baltimore Regional Transportation Plan through the development of a Regionally-consistent Countywide Bike Plan focused on increasing local and regional bicycle mobility, accessibility and transportation efficiency. The Howard County Bike Plan will incorporate BRTB approved planning goals and strategies, and will be consistent with State of Maryland “Green Print” and “Growth Print” concepts to insure that regional as well as local bicycling policies and projects are incorporated in the Plan. Year 2012 activities will include Bicycle Level of Compatibility (BLOC) analysis, identification of road segments and pathways consistent with a cycling network, identification and prioritization of roads and other facilities where County bike projects are needed, and identification of policies and programs to support bicycle transportation. Connectivity with Regional Partners’ proposals as well as Major Activity Centers will be a priority. Design elements will incorporate as applicable, signal design, bicycle lanes, off-road facilities, signing and other location-specific solutions improve bicycle access county-wide.

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- Application of BRTB Long Range Plan Goals through “Green Print” and “Growth Print” concepts to further bicycle transportation and regional connectivity for bicycle planning.
- Refinement of BRTB bicycle planning to a sub-regional level giving more depth and detail to the regional bicycle network.
- Advancement and improved integration with SHA bicycle and pedestrian planning for on-going and future project planning.

**FY 2012 PERFORMANCE OBJECTIVES:**

1. In collaboration with the Howard County Departments of Public Works (DPW) and Department of Recreation and Parks (DRP), develop policies which will govern the development of a Bicycle Plan and network in Howard County.
2. Inventory County Minor Collectors and above for bicycle compatibility and correlate this inventory with the DPW and DRP maintenance/repair schedules, capital projects as well as private sector developments-in-progress to potentially garner cost effective bicycle improvements.
3. Develop an inventory of bicycle compatible facilities as well as those road segments and travel paths where improvements are needed. Incorporate Regional partners’

proposals and needs where pertinent. Map the needs analysis including categorization of types of needs.

4. Establish a Bicycle Advisory Group and conduct necessary public outreach activities to provide opportunities for citizen and stakeholder input throughout the planning process.
5. Based on the inventory, develop a project list, detailed maps, general assessments of right of way constraints and preliminary costs. Vet these with bicycle and community groups, the public at large, and stakeholder agencies at the State and local levels. Insure regional connectivity wherever possible.
6. Identify key bicycle design concepts and signage consistent with “complete street” concepts and develop design templates that can be used for future implementation of the bicycle network. Identify other needed policies and programs to support bicycle transportation.
7. Develop prioritization criteria consistent with local opportunities and policies, Regional criteria, and realistic funding expectations. Prioritize the project list.
8. Coordinate with consultant to develop preliminary cost estimates; general assessments of right of way constraints and environmental approval and other review for these locations needed for bicycle improvements.
9. Work with the consultant and local and regional bicycle stake holders to prepare project prioritization and “complete street” bicycle design recommendations into a final Bike Plan document. Develop review and approval process.

PRODUCTS/MILESTONES	SCHEDULE
Develop policies to guide development of the Bike Plan and implementation.	1 <sup>st</sup> Quarter
Inventory Minor Collectors and above for Bicycle compatibility and project potential.	1 <sup>st</sup> Quarter
Develop Countywide Bicycle Needs Analysis.	2 <sup>nd</sup> Quarter
Establish Bike Advisory Group and finalize Bike projects list. Prioritize. Develop complete street bike design concepts	2 <sup>nd</sup> & 3 <sup>rd</sup> Quarters
Complete stake holder review of Bike Projects in combination with bike design concepts.	3 <sup>rd</sup> Quarter
Develop Bike Plan document and final stake holders review	4 <sup>th</sup> Quarter
Distribution of Bike Plan to all local and regional stakeholders	4 <sup>th</sup> Quarter

**PARTICIPANTS:** Howard County agencies, Consultants

**BUDGET:**            **\$209,000**