

**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
CITY OF ANNAPOLIS**

PROJECT: VISION PLANNING

PURPOSE: To coordinate, assist and manage the various administrative, technical and public outreach activities in the development of a regional land-use/transportation vision for the Baltimore region.

On December 2, 2008, the Baltimore Regional Transportation Board, serving as the metropolitan planning organization for the Baltimore region, unanimously agreed on the need for a comprehensive long range transportation Vision. This Vision should improve accessibility for all and promote livable and sustainable communities throughout the metropolitan area through coordinated inter-jurisdictional transportation planning.

In response to this task, the region's Planning Directors, locally empowered BRTB representatives and the Technical and Cooperative Forecasting committees met throughout the remaining months of FY 2009 and the first 6 months of FY 2011 to delineate an approach to accomplish the objective. The Team began its work by reviewing vision planning efforts in other metropolitan areas such as Pittsburgh, Chicago, Denver and Seattle as well as the local comprehensive plans of the region's six jurisdictions to identify technical assumptions, planning principles and shared goals. At the October 27, 2009 meeting of the BRTB, support for an identified methodology to conduct a regional vision planning process was endorsed by the local elected and state agency officials in attendance. Key tasks in this effort include; (1) an extensive public education and outreach campaign; (2) development of alternative land-use scenario planning futures evaluated against a set of prioritized measures; and, (3) consensus building (Preferred Scenario) for use in the development of the region's 2011 Long Range Transportation Plan (LRTP).

In FY 2011, BMC retained a consultant to develop and facilitate a large-scale public engagement campaign to provide interested stakeholders an opportunity to share their vision for the region's future and to serve as input to the transportation investment decisions included in the 2011 LRTP. To date, a variety of strategies to engage

stakeholders have been employed including focus groups, telephone surveys, public forums, open houses and internet social networking outlets.

In FY 2011, the activities of the consultant retained for public outreach will continue. Throughout FY 2011, local government staff will continue to assist the consultant in efforts to access the residential, business and political communities of the respective local jurisdiction members of the BRTB. Tasks will include meeting logistics, attendance and participation and preparation of technical materials. Local jurisdiction staff will also assist in the development of regional land development scenarios and the geographic (local) allocation of population, employment and households as transportation and planning officials start to visually and technically assess the projected impacts of planning assumptions against desired outcomes and objectives.

FY 2011 PERFORMANCE OBJECTIVES:

1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: City of Annapolis

BUDGET: \$ 5,000

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 2011 PERFORMANCE OBJECTIVES:

1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2012 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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th Quarter

PARTICIPANTS: City of Annapolis

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 2011 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: City of Annapolis

BUDGET: \$ 5,000

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.

The City of Annapolis 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. The City of Annapolis 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 2011 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: City of Annapolis

BUDGET: \$ 3,810

PROJECT: TRANSPORTATION IMPROVEMENT PROGRAM

PURPOSE: This project develops (local jurisdiction name) component of the annual Transportation Improvement Program (TIP), revisions to (local jurisdiction name) 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 2011 PERFORMANCE OBJECTIVES:

1. Develop (local jurisdiction name) annual submission to the TIP including assessment of all Federally-funded projects.
2. Review and comment on the Draft 2012-2015 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 to 2011-2014 TIP	As Needed
Submit Local TIP component of 2012-2015 document	3 rd Quarter
Revise (local jurisdiction name) local TIP component per comments and review draft TIP document	3 rd Quarter
Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: City of Annapolis

BUDGET: \$1,270

SUBAREA ANALYSIS**PROJECT: CITY OF ANNAPOLIS BICYCLE MASTER PLAN**

PURPOSE: The development of a Bicycle Master Plan (BMP) for the City of Annapolis and a comprehensive planning effort to provide bicycle facilities citywide. The BMP planning process will build upon the City's goals and objectives for enhancing mobility and accessibility. The planning process will include a "Strengths, Weaknesses, Opportunities and Threats" (SWOT) analysis, identification of needs and demands, and the subsequent development of a course of action to address these needs. The Plan will also address implementation strategies.

As part of the BMP, the City will collect and analyze bicycle related data, including usage, crashes, and facilities as well as specifying mitigation and implementation strategies.

The BMP will also equip Annapolis to successfully compete for State and Federal funding. It anticipated that this project will be completed either by a consultant, or by city staff, who have a wide range of knowledge and expertise in bicycle planning.

The development of a City Bicycle Master Plan supports the four main elements for Annapolis' success as a bicycle-friendly city: safety, access, quality of life, and effective implementation. The benefits of the Bicycle Master Plan and encouraging greater bicycle travel in the City include congestion relief, environmental benefits, enhanced quality of life through economic and health benefits, increased safety, and provision of needed facilities and services.

FY 2011 PERFORMANCE INDICATORS:

1. Perform SWOT analyses.
2. Collect and analyze bicycle related data.
3. Develop detailed work program and timeline based upon current industry BMP methodologies.

4. Create Bicycle Advisory Committee through appointments of members by an application process.
5. Prepare final BMP reports for approval and adoption by the City Council.

PRODUCTS/MILESTONES	SCHEDULE
Conduct SWOT analyses, collect and analyze bicycle related data	Throughout Fiscal Year
Develop detailed work program and timeline	1 st Quarter
Assemble Bicycle Advisory Committee	1 st Quarter
Create base maps and documents	2 nd Quarter
Preliminary needs and recommendations	2 nd Quarter
Draft report for BAC and stakeholder review	3 rd Quarter
Provide Final Report for Council approval and adoption	4 th Quarter

PARTICIPANTS: City of Annapolis, Consultant

BUDGET: \$80,000

**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
ANNE ARUNDEL COUNTY**

PROJECT: VISION PLANNING

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In FY 2011, BMC retained a consultant to develop and facilitate a large-scale public engagement campaign to provide interested stakeholders an opportunity to share their vision for the region's future and to serve as input to the transportation investment decisions included in the 2011 LRTP. To date, a variety of strategies to engage

stakeholders have been employed including focus groups, telephone surveys, public forums, open houses and internet social networking outlets.

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1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: Anne Arundel County

BUDGET: \$ 10,000

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 2011 PERFORMANCE OBJECTIVES:

1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2012 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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th Quarter

PARTICIPANTS: Anne Arundel 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 2011 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: Anne Arundel County

BUDGET: \$ 10,000

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 2011 and report on their progress periodically to the CFG, the Technical Committee, and the BRTB.

During FY 2011, local planning staffs will work with BMC staff and the U.S. Census Bureau to review proposed statistical areas and further develop 2011 transportation analyses zones.

FY 2011 PERFORMANCE OBJECTIVES:

1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones.
2. Provide updates where necessary on major new developments or facilities that impact existing forecasts.
3. Prepare documentation on socio-economic forecast methodologies.
4. Prepare documentation on the development of 2011 transportation analysis zones and their relationship with 2011 census statistical geography.

PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 nd Quarter
Document methodologies used to generate forecasts	2 nd Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2011 transportation analysis zones based on census statistical geography	4 th Quarter

PARTICIPANTS: Anne Arundel County

BUDGET: \$34,650

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.

Anne Arundel 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. Anne Arundel 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 2011 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: Anne Arundel County

BUDGET: \$ 3,810

PROJECT: TRANSPORTATION IMPROVEMENT PROGRAM

PURPOSE: This project develops (local jurisdiction name) component of the annual Transportation Improvement Program (TIP), revisions to (local jurisdiction name) 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.

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Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: Anne Arundel County

BUDGET: \$ 1,000

PROJECT: SUBAREA ANALYSIS

PART A: MODEL MAINTENANCE / DATA COLLECTION/BRAC SUPPORT

PURPOSE: Manage the development of subarea models; continue transit usage data collection effort for forecasting in future years.

FY2011 PERFORMANCE OBJECTIVES:

1. Maintain and manage the updates and development of subarea models.
2. Continue collecting information to add detail to the highway and transit networks and continue identifying area of traffic congestion.
3. Support the regional travel forecast model.
4. Provide input and analysis on BRAC.
5. Assist the Maryland Aviation Administration in their development of the Airport Master Plan including providing transportation modeling data and analysis in the vicinity of BWI - Thurgood Marshall Airport.

PRODUCTS/MILESTONES	SCHEDULE
Continue updating highway and transit network data bases	Throughout Fiscal Year
Provide input and analysis on BRAC related activities.	Throughout Fiscal Year
Maintain and update the subarea models	Throughout Fiscal Year
Provide assistance to the Maryland Aviation Administration in the development of the Airport Master Plan	Throughout Fiscal Year

PARTICIPANTS: Anne Arundel County

BUDGET: \$40,000

**PART B: TRANSIT INVESTMENT AND PRIORITY HIGHWAY IMPROVEMENT
CORRIDORS**

PURPOSE: Model and evaluate Transit Investment Corridors to support the region's transit vision and the County's Transportation Functional Master Plan.

FY 2011 PERFORMANCE OBJECTIVES:

1. Develop a Transit Investment Corridor (TIC) map layer and Priority Highway Improvement Corridor Maps using the centerline GIS file (up to five corridors).
2. Develop a map layer of all existing bus routes, Light Rail and MARC stations transit stops and park-and-ride lots using the GIS centerline map file.
3. Develop a current transit ridership data inventory from all sources.
4. Review regional data on Light Rail and MARC Station profiles (Parking availability to demand, passenger usage, pedestrian safety and access coordination with other modes, sidewalks, bike racks, lighting etc.) This will be in addition, if needed, to the information in the Transit Investment Corridor Study under Performance Objective #4.
5. Develop a map layer of the major activity centers and trip generators within the TIC and PHIC using the centerline map.
6. Develop a map layer of the existing land use, vacant land and zoning in the TIC and PHIC.
7. Develop a map layer showing existing traffic counts and present (2005) level-of-service (LOS) at all signalized intersections and interchanges for the Priority Highway Improvement Corridors using the centerline GIS files.
8. Evaluate TIC using existing plans, the County's Transportation Development Plan (TDP) and existing demographic data to determine potential transit corridors, intermodal sites, MARC and Light Rail Stations improvements and appropriate transit mode within the corridor(s).
9. Prioritize an action plan to improve mobility in the Priority Highway Improvement Corridors.

10. All products, where possible, will be compatible and shared with BMC for the Chesapeake Science Security Study (CSSC).
11. Edit current Anne Arundel Countywide Travel Demand Model by adding detail for each identified corridor.
12. Validate current Anne Arundel Countywide Travel Demand Model.
13. Edit Model for each identified corridor based on round 7b forecast as well as any improvements identified in Transportation 2035.
14. Execute edit Model.
15. Refine forecasts using NCHRP 255 to develop peak hour directional volumes.

PRODUCTS/MILESTONES	SCHEDULE
Develop transit ridership data, existing traffic count data	1 st , 2 nd & 3 rd Quarters
Identify major activity centers, transit infrastructure and trip generators	2 nd & 3 rd Quarters
Develop map layers of existing land use, vacant land, traffic signals, zoning and future trip generation in TIC and PHIC	3 rd Quarter
Evaluate TIC to determine potential TOD's Light Rail Corridors, Intermodal sites and potential Light Rail and MARC station improvements; develop a PHIC Action Plan	4 th Quarter

PARTICIPANT: Anne Arundel County and consultants

BUDGET: \$ 306,250

TOTAL SUBAREA BUDGET: \$ 346,250

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**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
BALTIMORE CITY**

PROJECT: VISION PLANNING

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FY 2011 PERFORMANCE OBJECTIVES:

1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: Baltimore City

BUDGET: \$ 10,000

PROJECT: UPWP MANAGEMENT

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1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
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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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th Quarter

PARTICIPANTS: Baltimore City

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.

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

PARTICIPANTS: Baltimore City

BUDGET: \$ 10,000

PROJECT: COOPERATIVE FORECASTING PROCESS

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1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones.
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PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 nd Quarter
Document methodologies used to generate forecasts	2 nd Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2011 transportation analysis zones based on census statistical geography	4 th Quarter

PARTICIPANTS: Baltimore City

BUDGET: \$54,630

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.

Baltimore City 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. Baltimore City 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 2011 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.
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4. Work with local bicycle groups to encourage non-motorized transportation alternatives.

PRODUCTS/MILESTONES	SCHEDULE
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PARTICIPANTS: Baltimore City

BUDGET: \$ 3,810

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Submit Local TIP component of 2012-2015 document	3 rd Quarter
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Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: Baltimore City

BUDGET: \$ 10,165

SUBPART: BICYCLE MASTER PLAN UPDATE

PURPOSE: Continue the update of the City’s Bicycle Master Plan in order to create an integrated network of bicycle lanes which encourages bicycling as a viable transportation option; enhance efforts to collect timely data on and analyze bicycle traffic, develop marketing efforts to promote safe bicycling. Develop complete streets principles. Identify and evaluate the feasibility of making on and off street improvements to Baltimore’s transportation network. Work with Baltimore and Anne Arundel Counties to connect communities across city and county lines.

FY 2011 PERFORMANCE OBJECTIVES:

1. Update Baltimore City Bicycle Master Plan
2. Track data on and analyze bicycle traffic
3. Develop marketing activities to promote safe bicycling
4. Develop traffic calming and pedestrian safety measures
5. Recommend and prioritize city streets that can be re-engineered to accommodate varying modes of transportation. Identify roadways as: vehicular commuter routes, transit routes, bicycle routes, freight routes, tour/recreation routes, and education/school routes.

PRODUCTS/MILESTONES	SCHEDULE
Bicycle Master Plan update: <ul style="list-style-type: none"> • review roadway design and construction plans for bicycle lane and safety improvements • develop partnerships for installation of bicycle racks and shower/changing facilities • Identify bicycle and pedestrian count technologies at appropriate locations • Provide training opportunities for City engineers, planners, and public works inspectors 	Throughout Fiscal Year

Track data on and analyze bicycle traffic;	Throughout Fiscal Year
Develop marketing activities to promote safe bicycling	1 st Quarter
Identify and prioritize city streets that will accommodate varying modes of transportation and provide recommendations for re-engineering.	2 nd Quarter
Develop complete streets principals	3 rd Quarter

PARTICIPANTS: Baltimore City DOT, Planning, Recreation and Parks, Police, Mayor’s Bicycle Advisory Committee, Downtown Baltimore Family Alliance

BUDGET: \$120,000

SUBPART: FREDERICK ROAD (ROUTE 144) CORRIDOR STUDY

PURPOSE: Perform traffic and safety analysis on Frederick Road from the City line to South Brunswick Street. The study will include an existing conditions analysis, future conditions analysis and conceptual recommendation to improve mobility, enhance the corridor for alternative transportation opportunities create a gateway into the City from Baltimore County, and reduce vehicular and pedestrian conflicts along the corridor that may increase with the implementation of the Red Line.

FY 2011 PERFORMANCE OBJECTIVES:

1. Provide a comprehensive traffic operations and safety analysis along the Frederick Road corridor and gateway.
2. Provide the groundwork for geometric improvements to transportation facilities including possible transit upgrades, pavement markings, traffic controls, sidewalks, ADA ramps, medians, lighting and other elements.

PRODUCTS/MILESTONES	SCHEDULE
Existing Conditions Analysis	1 st Quarter
Final Conditions Analysis and Simulation	2 nd Quarter
Final Report and Recommendations	4 th Quarter

PARTICIPANTS: Baltimore City DOT, Planning, Office of Neighborhoods, Community Groups, Consultant

BUDGET: **\$130,000**

SUBPART: RED LINE COORDINATION CONTINUATION

PURPOSE: To sustain the City’s Red Line Coordinator, community engagement activities and the economic inclusion initiative. The work will continue coordination between several city agencies assisting the MTA’s efforts preceding preliminary engineering.

FY 2011 PERFORMANCE OBJECTIVES:

1. Continue implementation of the Red Line Community Compact, with an emphasis on economic inclusion initiatives and a coordinated neighborhood investment strategy.
2. Produce City agency input and comments on the Red Line Locally-Preferred Alternative, Preliminary Engineering activities, etc.
3. Improve communications and engagement with low-income and minority communities through the creation of Station Area Advisory Committees and the Community Liaison Team.
4. Develop additional community-based leadership for participation in Red Line Preliminary Engineering activities.
5. Develop station area plans for region.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate the City’s multi-agency Red Line Working Group	Throughout Fiscal Year
Create a preliminary economic inclusion strategy for the Red Line	2 nd Quarter
Create a preliminary coordinated neighborhood investment strategy for the Red Line	4 th Quarter
Provide concept engineering drawings for station, parking and roadway access	4 th Quarter
Improve communications and engagement with low-income and minority communities	Throughout Fiscal Year

PARTICIPANTS: Baltimore City, MTA, Consultants

BUDGET: \$316,000

SUBPART: SOUTHEAST BALTIMORE PORT ACCESS/LANDSIDE

PURPOSE: In cooperation with the Maryland Port Administration and the Baltimore Development Corporation, the Baltimore City Department of Transportation has identified a project which has the potential to significantly improve landside freight movement near the Southeast terminals of the Port of Baltimore. UPWP funds will be used to initiate project development studies for an extension of Danville Street from Clinton Street to Haven Street in a former CSX right-of-way. The project would funnel trucks on a bypass away from the Canton Crossing mixed-use development and further the goals of the Maritime Industrial Zoning Overlay District.

FY 2011 PERFORMANCE OBJECTIVES:

1. Initiate project development for the extension of Danville Street from Clinton Street to Haven Street in a former CSX right-of-way.
2. Provide the groundwork for geometric improvements to transportation facilities including possible transit upgrades, pavement markings, and traffic controls.

PRODUCTS/MILESTONES	SCHEDULE
Existing conditions analysis of proposed project site	1 st Quarter
Preliminary engineering design	3 rd Quarter
Final Report and Recommendations	4 th Quarter

PARTICIPANTS: Baltimore City DOT, Maryland Port Administration, DOT Consultant

BUDGET: \$136,800

SUBPART: URBAN CENTERS TRIP GENERATION SURVEY

PURPOSE: To develop trip generation data for travel forecasting and provide data for use in the Institute of Transportation Engineers manual, the national standard for trip data. Currently, the ITE manual does not provide data for urban mixed-use centers. Goals of this project are to: 1) determine the trip rates of different types of uses within the mixed-use development, 2) determine how users travel to and from mixed-use developments in urban centers, and 3) provide the groundwork for other areas in the region to duplicate the survey and combine results for region transportation planning.

FY 2011 PERFORMANCE OBJECTIVES:

1. Prepare trip generation form and preference survey for high density urban areas within Baltimore City.
2. Identify mixed-use locations for survey implementation and the specific locations within the development and create intercept survey and internet-based survey.
3. Initiate survey and collect data at specified locations.
4. Prepare report of raw survey results.

PRODUCTS/MILESTONES	SCHEDULE
Prepare trip generation form and preference survey for high density urban areas within Baltimore City	1 st Quarter
Initiate survey and collect data at specified locations	2 nd Quarter
Prepare initial report of raw survey data	3 rd Quarter
Prepare final report on travel preferences including recommendations	4 th Quarter

PARTICIPANTS: Baltimore City DOT, Business Owners, Consultant

BUDGET: \$50,000

SUBPART: BAYVIEW MULTIMODAL TRANSIT CENTER CONTINUATION

PURPOSE: The Bayview Multimodal Transit Center, a project consistent with the regional transportation plan, is being proposed to advance to the conceptual phase in a joint effort between the City of Baltimore and the Maryland Transit Administration (MTA). The intermodal station will be planned to take advantage of an intersection of heavy and light rail and the I-95 and I-895 interstates, but also current and near future funding opportunities. Advancing to concept development at this point is important to prepare for the re-authorization of SAFETEA-LU and in support of the Red Line New Starts Submittal.

The eastern boundary of Baltimore City currently has limited transit service. Now that the Red Line (which is considered the top regional transit priority has a preferred alternative, it is imperative that an interface with existing and future east side transit be explored. In a region often criticized for the lack of connectivity in its transit system and between its transit and transportation systems, the Bayview project offers an opportunity to provide connection between heavy and light rail, bus and interstate facilities. The project would also provide the opportunity to demonstrate transit planning on a regional level with active MPO participation.

Cost projections for the Transit Center at Bayview are currently about \$70 million. Planning and design cost for this project is about \$4 million. UPWP funds are for planning and environmental documentation only.

FY 2011 PERFORMANCE OBJECTIVES:

1. Develop station templates for MARC, Red Line, and bus interconnections.
2. Evaluate sites and surrounding area for transit oriented development opportunities.
3. Develop conceptual level engineering of station templates, parking and roadway access in coordination with Amtrak and private railroads.

PRODUCTS/MILESTONES	SCHEDULE
Develop station templates for MARC, Red Line and bus interconnections	1 st Quarter
Evaluate sites and surrounding area for TOD opportunities	2 nd Quarter
Develop conceptual level engineering of station templates, parking and roadway access in coordination with Amtrak and private railroads.	3 rd Quarter
Prepare final report	4 th Quarter

PARTICIPANTS: Baltimore City, MTA, BMC, Consultant

BUDGET: \$375,000

**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
BALTIMORE COUNTY**

PROJECT: VISION PLANNING

PURPOSE: To coordinate, assist and manage the various administrative, technical and public outreach activities in the development of a regional land-use/transportation vision for the Baltimore region.

On December 2, 2008, the Baltimore Regional Transportation Board, serving as the metropolitan planning organization for the Baltimore region, unanimously agreed on the need for a comprehensive long range transportation Vision. This Vision should improve accessibility for all and promote livable and sustainable communities throughout the metropolitan area through coordinated inter-jurisdictional transportation planning.

In response to this task, the region's Planning Directors, locally empowered BRTB representatives and the Technical and Cooperative Forecasting committees met throughout the remaining months of FY 2009 and the first 6 months of FY 2011 to delineate an approach to accomplish the objective. The Team began its work by reviewing vision planning efforts in other metropolitan areas such as Pittsburgh, Chicago, Denver and Seattle as well as the local comprehensive plans of the region's six jurisdictions to identify technical assumptions, planning principles and shared goals. At the October 27, 2009 meeting of the BRTB, support for an identified methodology to conduct a regional vision planning process was endorsed by the local elected and state agency officials in attendance. Key tasks in this effort include; (1) an extensive public education and outreach campaign; (2) development of alternative land-use scenario planning futures evaluated against a set of prioritized measures; and, (3) consensus building (Preferred Scenario) for use in the development of the region's 2011 Long Range Transportation Plan (LRTP).

In FY 2011, BMC retained a consultant to develop and facilitate a large-scale public engagement campaign to provide interested stakeholders an opportunity to share their vision for the region's future and to serve as input to the transportation investment decisions included in the 2011 LRTP. To date, a variety of strategies to engage

stakeholders have been employed including focus groups, telephone surveys, public forums, open houses and internet social networking outlets.

In FY 2011, the activities of the consultant retained for public outreach will continue. Throughout FY 2011, local government staff will continue to assist the consultant in efforts to access the residential, business and political communities of the respective local jurisdiction members of the BRTB. Tasks will include meeting logistics, attendance and participation and preparation of technical materials. Local jurisdiction staff will also assist in the development of regional land development scenarios and the geographic (local) allocation of population, employment and households as transportation and planning officials start to visually and technically assess the projected impacts of planning assumptions against desired outcomes and objectives.

FY 2011 PERFORMANCE OBJECTIVES:

1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: Baltimore County

BUDGET: \$ 10,000

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 2011 PERFORMANCE OBJECTIVES:

1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2012 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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th Quarter

PARTICIPANTS: Baltimore 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 2011 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: Baltimore County

BUDGET: \$ 10,000

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 2011 and report on their progress periodically to the CFG, the Technical Committee, and the BRTB.

During FY 2011, local planning staffs will work with BMC staff and the U.S. Census Bureau to review proposed statistical areas and further develop 2011 transportation analyses zones.

FY 2011 PERFORMANCE OBJECTIVES:

1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones.
2. Provide updates where necessary on major new developments or facilities that impact existing forecasts.
3. Prepare documentation on socio-economic forecast methodologies.
4. Prepare documentation on the development of 2011 transportation analysis zones and their relationship with 2011 census statistical geography.

PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 nd Quarter
Document methodologies used to generate forecasts	2 nd Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2011 transportation analysis zones based on census statistical geography	4 th Quarter

PARTICIPANTS: Baltimore County

BUDGET: \$ 25,000

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.

Baltimore 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. Baltimore 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 2011 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: Baltimore County

BUDGET: \$ 3,810

PROJECT: TRANSPORTATION IMPROVEMENT PROGRAM

PURPOSE: This project develops (local jurisdiction name) component of the annual Transportation Improvement Program (TIP), revisions to (local jurisdiction name) 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 2011 PERFORMANCE OBJECTIVES:

1. Develop (local jurisdiction name) annual submission to the TIP including assessment of all Federally-funded projects.
2. Review and comment on the Draft 2012-2015 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 to 2011-2014 TIP	As Needed
Submit Local TIP component of 2012-2015 document	3 rd Quarter
Revise (local jurisdiction name) local TIP component per comments and review draft TIP document	3 rd Quarter
Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: Baltimore County

BUDGET: \$ 3,000

PROJECT: SUBAREA ANALYSIS, PART A

PURPOSE: Plan refinement studies provide for the development of highway and transit systems usage projections and needs analyses, ultimately leading to updates of corridor and local area multi-modal transportation plans. Support of sub-area transportation systems analysis efforts is a critical first step toward integration of the regionally significant elements of local transportation plans within a regional framework.

Local jurisdictions of the region are encouraged to perform sub-area transportation systems analyses using state of-the-art planning models. These efforts must be carried out in coordination with BMC model refinement activities. Microcomputer-based planning tools are particularly effective in sensitivity testing of alternative growth and transportation systems scenarios. The results of local sub-area refinement studies will be used to further calibrate the regional model development efforts and identify refinements needing local area improvements. The Baltimore County Subarea Analysis effort for FY 2010 will consist of two major initiatives: (1) conduct County-wide assessments of the No-Build Alternatives for key potential Master Plan improvements e.g., the Dolfield Boulevard/I-795 Interchange, Walther Boulevard/Gunview, Owings Mills Boulevard South, etc. and, (2) apply various TP+ reporting modules to enhance graphical and data analysis.

FY 2010 PERFORMANCE OBJECTIVES:

1. Conduct No-Build/Master Plan assessments study using TP+.
2. Enhance data analysis using various TP+ reporting modules.

PRODUCTS/MILESTONES	SCHEDULE
Electronic documentation of the various sensitivity runs; submit to BMC for review and comment	Throughout Fiscal Year
Memorandum documenting study results	4 TH Quarter

PARTICIPANTS: Baltimore County

BUDGET: \$70,000

PROJECT: SUBAREA PART B, TRIP GENERATION STUDY

PURPOSE: This task involves conducting a study to assess if the generalized trip generation rates for certain land uses in the ITE manual are representative of actual trip generation rates in Baltimore County. The County has previously done a pilot study of residential trip generation rates in Baltimore County and determined that in certain instances the trip rates are significantly different from ITE rates. This study will identify communities that have limited egress and conduct cordon hose counts.

FY 2011 PERFORMANCE OBJECTIVES:

1. Conduct traffic counts.
2. Analyze data and produce final report.

PRODUCTS/MILESTONES	SCHEDULE
Conduct traffic counts	Throughout Fiscal Year
Analyze data and produce final report	4 th Quarter

PARTICIPANTS: Baltimore County

BUDGET: \$25,000

PROJECT: SUBAREA PART C, NORTHERN BALTIMORE COUNTY PEDESTRIAN AND BICYCLE ACCESS PLAN

PURPOSE: This is Phase Three of a county-wide plan to develop a comprehensive network of bicycle facilities providing access from major residential areas to schools, recreation areas, shopping and employment centers. It will include recommendations for providing connections to the bicycle facilities planned and developed by the adjacent jurisdictions to support the creation of a regional bikeway network. It will also pinpoint where improvements are most needed to support pedestrian accessibility.

Phase Two included the first, second, third and fourth council districts within the County's western urban area. Phase One of the plan (the Eastern Baltimore County Pedestrian and Bicycle Access Plan) was adopted by the Baltimore County Council in 2006.

Baltimore County will develop the North County Bicycle Access Plan, which when completed, along with the Eastern and Western County Pedestrian and Bicycle Access Plans, lays the groundwork for achieving a complete bicycle route network, on-street and off-road trails, for the entirety of Baltimore County, with appropriate focus on ensuring metropolitan linkages and connections to streets, trails, and the transit network in Baltimore City and the surrounding counties of Anne Arundel, Carroll, Harford and Howard in concert with the recommendations put forward in the Baltimore Regional Bicycle, Pedestrian and Greenways Transportation Plan and the State's Strategic Implementation Plan for Trails.

FY 2011 PERFORMANCE OBJECTIVES:

1. Develop detailed work program, including fine-tuning approach based on state-of-the-art methodology.
2. Create North County advisory group.
3. Prepare final reports.

4. Work with local bicycle groups to encourage non-motorized transportation alternatives.

PRODUCTS/MILESTONES	SCHEDULE
Develop detailed work program	1 st Quarter
Create GIS base maps	2 nd Quarter
Assemble advisory group	2 nd Quarter
Create preliminary map of recommendations	3 rd Quarter
Advisory group review and review by other stakeholders	3 rd Quarter
Produce final report	4 th Quarter

PARTICIPANTS: Baltimore County

BUDGET: \$45,000

**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
CARROLL COUNTY**

PROJECT: VISION PLANNING

PURPOSE: To coordinate, assist and manage the various administrative, technical and public outreach activities in the development of a regional land-use/transportation vision for the Baltimore region.

On December 2, 2008, the Baltimore Regional Transportation Board, serving as the metropolitan planning organization for the Baltimore region, unanimously agreed on the need for a comprehensive long range transportation Vision. This Vision should improve accessibility for all and promote livable and sustainable communities throughout the metropolitan area through coordinated inter-jurisdictional transportation planning.

In response to this task, the region's Planning Directors, locally empowered BRTB representatives and the Technical and Cooperative Forecasting committees met throughout the remaining months of FY 2009 and the first 6 months of FY 2011 to delineate an approach to accomplish the objective. The Team began its work by reviewing vision planning efforts in other metropolitan areas such as Pittsburgh, Chicago, Denver and Seattle as well as the local comprehensive plans of the region's six jurisdictions to identify technical assumptions, planning principles and shared goals. At the October 27, 2009 meeting of the BRTB, support for an identified methodology to conduct a regional vision planning process was endorsed by the local elected and state agency officials in attendance. Key tasks in this effort include; (1) an extensive public education and outreach campaign; (2) development of alternative land-use scenario planning futures evaluated against a set of prioritized measures; and, (3) consensus building (Preferred Scenario) for use in the development of the region's 2011 Long Range Transportation Plan (LRTP).

In FY 2011, BMC retained a consultant to develop and facilitate a large-scale public engagement campaign to provide interested stakeholders an opportunity to share their vision for the region's future and to serve as input to the transportation investment decisions included in the 2011 LRTP. To date, a variety of strategies to engage

stakeholders have been employed including focus groups, telephone surveys, public forums, open houses and internet social networking outlets.

In FY 2011, the activities of the consultant retained for public outreach will continue. Throughout FY 2011, local government staff will continue to assist the consultant in efforts to access the residential, business and political communities of the respective local jurisdiction members of the BRTB. Tasks will include meeting logistics, attendance and participation and preparation of technical materials. Local jurisdiction staff will also assist in the development of regional land development scenarios and the geographic (local) allocation of population, employment and households as transportation and planning officials start to visually and technically assess the projected impacts of planning assumptions against desired outcomes and objectives.

FY 2011 PERFORMANCE OBJECTIVES:

1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: Carroll County

BUDGET: \$ 10,000

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 2011 PERFORMANCE OBJECTIVES:

1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2012 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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th Quarter

PARTICIPANTS: Carroll 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 2011 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: Carroll County

BUDGET: \$ 10,000

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 2011 and report on their progress periodically to the CFG, the Technical Committee, and the BRTB.

During FY 2011, local planning staffs will work with BMC staff and the U.S. Census Bureau to review proposed statistical areas and further develop 2011 transportation analyses zones.

FY 2011 PERFORMANCE OBJECTIVES:

1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones.
2. Provide updates where necessary on major new developments or facilities that impact existing forecasts.
3. Prepare documentation on socio-economic forecast methodologies.
4. Prepare documentation on the development of 2011 transportation analysis zones and their relationship with 2011 census statistical geography.

PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 nd Quarter
Document methodologies used to generate forecasts	2 nd Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2011 transportation analysis zones based on census statistical geography	4 th Quarter

PARTICIPANTS: Carroll County

BUDGET: \$ 38,115

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.

Carroll 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. Carroll 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 2011 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: Carroll County

BUDGET: \$ 3,810

PROJECT: TRANSPORTATION IMPROVEMENT PROGRAM

PURPOSE: This project develops (local jurisdiction name) component of the annual Transportation Improvement Program (TIP), revisions to (local jurisdiction name) 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 2011 PERFORMANCE OBJECTIVES:

1. Develop (local jurisdiction name) annual submission to the TIP including assessment of all Federally-funded projects.
2. Review and comment on the Draft 2012-2015 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 to 2011-2014 TIP	As Needed
Submit Local TIP component of 2012-2015 document	3 rd Quarter
Revise (local jurisdiction name) local TIP component per comments and review draft TIP document	3 rd Quarter
Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: Carroll County

BUDGET: \$ 1,270

**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
HARFORD COUNTY**

PROJECT: VISION PLANNING

PURPOSE: To coordinate, assist and manage the various administrative, technical and public outreach activities in the development of a regional land-use/transportation vision for the Baltimore region.

On December 2, 2008, the Baltimore Regional Transportation Board, serving as the metropolitan planning organization for the Baltimore region, unanimously agreed on the need for a comprehensive long range transportation Vision. This Vision should improve accessibility for all and promote livable and sustainable communities throughout the metropolitan area through coordinated inter-jurisdictional transportation planning.

In response to this task, the region's Planning Directors, locally empowered BRTB representatives and the Technical and Cooperative Forecasting committees met throughout the remaining months of FY 2009 and the first 6 months of FY 2011 to delineate an approach to accomplish the objective. The Team began its work by reviewing vision planning efforts in other metropolitan areas such as Pittsburgh, Chicago, Denver and Seattle as well as the local comprehensive plans of the region's six jurisdictions to identify technical assumptions, planning principles and shared goals. At the October 27, 2009 meeting of the BRTB, support for an identified methodology to conduct a regional vision planning process was endorsed by the local elected and state agency officials in attendance. Key tasks in this effort include; (1) an extensive public education and outreach campaign; (2) development of alternative land-use scenario planning futures evaluated against a set of prioritized measures; and, (3) consensus building (Preferred Scenario) for use in the development of the region's 2011 Long Range Transportation Plan (LRTP).

In FY 2011, BMC retained a consultant to develop and facilitate a large-scale public engagement campaign to provide interested stakeholders an opportunity to share their vision for the region's future and to serve as input to the transportation investment decisions included in the 2011 LRTP. To date, a variety of strategies to engage

stakeholders have been employed including focus groups, telephone surveys, public forums, open houses and internet social networking outlets.

In FY 2011, the activities of the consultant retained for public outreach will continue. Throughout FY 2011, local government staff will continue to assist the consultant in efforts to access the residential, business and political communities of the respective local jurisdiction members of the BRTB. Tasks will include meeting logistics, attendance and participation and preparation of technical materials. Local jurisdiction staff will also assist in the development of regional land development scenarios and the geographic (local) allocation of population, employment and households as transportation and planning officials start to visually and technically assess the projected impacts of planning assumptions against desired outcomes and objectives.

FY 2011 PERFORMANCE OBJECTIVES:

1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: Harford County

BUDGET: \$ 10,000

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 2011 PERFORMANCE OBJECTIVES:

1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2012 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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th Quarter

PARTICIPANTS: Harford 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 2011 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: Harford County

BUDGET: \$ 10,000

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 2011 and report on their progress periodically to the CFG, the Technical Committee, and the BRTB.

During FY 2011, local planning staffs will work with BMC staff and the U.S. Census Bureau to review proposed statistical areas and further develop 2011 transportation analyses zones.

FY 2011 PERFORMANCE OBJECTIVES:

1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones.
2. Provide updates where necessary on major new developments or facilities that impact existing forecasts.
3. Prepare documentation on socio-economic forecast methodologies.
4. Prepare documentation on the development of 2011 transportation analysis zones and their relationship with 2011 census statistical geography.

PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 nd Quarter
Document methodologies used to generate forecasts	2 nd Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2011 transportation analysis zones based on census statistical geography	4 th Quarter

PARTICIPANTS: Harford 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.

Harford 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. Harford 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 2011 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: Harford County

BUDGET: \$ 3,810

PROJECT: TRANSPORTATION IMPROVEMENT PROGRAM

PURPOSE: This project develops (local jurisdiction name) component of the annual Transportation Improvement Program (TIP), revisions to (local jurisdiction name) 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 2011 PERFORMANCE OBJECTIVES:

1. Develop (local jurisdiction name) annual submission to the TIP including assessment of all Federally-funded projects.
2. Review and comment on the Draft 2012-2015 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 to 2011-2014 TIP	As Needed
Submit Local TIP component of 2012-2015 document	3 rd Quarter
Revise (local jurisdiction name) local TIP component per comments and review draft TIP document	3 rd Quarter
Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: Harford County

BUDGET: \$5,080

**UNIFIED PLANNING WORK PROGRAM
FOR TRANSPORTATION PLANNING
FY 2011 PROJECTS AND BUDGETS
FOR
HOWARD COUNTY**

PROJECT: VISION PLANNING

PURPOSE: To coordinate, assist and manage the various administrative, technical and public outreach activities in the development of a regional land-use/transportation vision for the Baltimore region.

On December 2, 2008, the Baltimore Regional Transportation Board, serving as the metropolitan planning organization for the Baltimore region, unanimously agreed on the need for a comprehensive long range transportation Vision. This Vision should improve accessibility for all and promote livable and sustainable communities throughout the metropolitan area through coordinated inter-jurisdictional transportation planning.

In response to this task, the region's Planning Directors, locally empowered BRTB representatives and the Technical and Cooperative Forecasting committees met throughout the remaining months of FY 2009 and the first 6 months of FY 2011 to delineate an approach to accomplish the objective. The Team began its work by reviewing vision planning efforts in other metropolitan areas such as Pittsburgh, Chicago, Denver and Seattle as well as the local comprehensive plans of the region's six jurisdictions to identify technical assumptions, planning principles and shared goals. At the October 27, 2009 meeting of the BRTB, support for an identified methodology to conduct a regional vision planning process was endorsed by the local elected and state agency officials in attendance. Key tasks in this effort include; (1) an extensive public education and outreach campaign; (2) development of alternative land-use scenario planning futures evaluated against a set of prioritized measures; and, (3) consensus building (Preferred Scenario) for use in the development of the region's 2011 Long Range Transportation Plan (LRTP).

In FY 2011, BMC retained a consultant to develop and facilitate a large-scale public engagement campaign to provide interested stakeholders an opportunity to share their vision for the region's future and to serve as input to the transportation investment decisions included in the 2011 LRTP. To date, a variety of strategies to engage

stakeholders have been employed including focus groups, telephone surveys, public forums, open houses and internet social networking outlets.

In FY 2011, the activities of the consultant retained for public outreach will continue. Throughout FY 2011, local government staff will continue to assist the consultant in efforts to access the residential, business and political communities of the respective local jurisdiction members of the BRTB. Tasks will include meeting logistics, attendance and participation and preparation of technical materials. Local jurisdiction staff will also assist in the development of regional land development scenarios and the geographic (local) allocation of population, employment and households as transportation and planning officials start to visually and technically assess the projected impacts of planning assumptions against desired outcomes and objectives.

FY 2011 PERFORMANCE OBJECTIVES:

1. Continue coordination and participation in local/regional public outreach activities in support of regional vision planning process.
2. Review land development scenarios and impact assessment.
3. Continue outreach to local agencies responsible for land use, transportation and economic development to understand their goals and how they affect a regional vision.
4. Coordinate trends analysis, local planning assumptions and cooperative forecast.
5. Develop performance measures.

PRODUCTS/MILESTONES	SCHEDULE
Coordinate and participate in local outreach meetings	Throughout Fiscal Year
Assist with land development scenarios	Throughout Fiscal Year
Coordinate local demographic planning assumptions	Throughout Fiscal Year
Attend technical planning workshops	Throughout Fiscal Year

PARTICIPANTS: Howard County

BUDGET: \$ 10,000

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 2011 PERFORMANCE OBJECTIVES:

1. Manage (insert jurisdiction name) local and regional involvement in the transportation planning process.
2. Prepare quarterly reports and invoices.
3. Prepare the FY 2012 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 2011 UPWP	Throughout Fiscal Year
Budget amendments for FY 2011	As Necessary
(insert jurisdiction name) FY 2012 UPWP submittals	2 nd Quarter
Completion of formal grant acceptance process for FY 2012	4 th 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 2011 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

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 2011 and report on their progress periodically to the CFG, the Technical Committee, and the BRTB.

During FY 2011, local planning staffs will work with BMC staff and the U.S. Census Bureau to review proposed statistical areas and further develop 2011 transportation analyses zones.

FY 2011 PERFORMANCE OBJECTIVES:

1. Prepare updated socio-economic and demographic jurisdictional forecasts at the level of transportation analysis zones.
2. Provide updates where necessary on major new developments or facilities that impact existing forecasts.
3. Prepare documentation on socio-economic forecast methodologies.
4. Prepare documentation on the development of 2011 transportation analysis zones and their relationship with 2011 census statistical geography.

PRODUCTS/MILESTONES	SCHEDULE
Review and report on forecasts for population, households and employment	2 nd Quarter
Document methodologies used to generate forecasts	2 nd Quarter
Provide updates on major new developments that affect existing forecasts	Throughout Fiscal Year
Develop new 2011 transportation analysis zones based on census statistical geography	4 th 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 2011 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 (local jurisdiction name) component of the annual Transportation Improvement Program (TIP), revisions to (local jurisdiction name) 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 2011 PERFORMANCE OBJECTIVES:

1. Develop (local jurisdiction name) annual submission to the TIP including assessment of all Federally-funded projects.
2. Review and comment on the Draft 2012-2015 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 to 2011-2014 TIP	As Needed
Submit Local TIP component of 2012-2015 document	3 rd Quarter
Revise (local jurisdiction name) local TIP component per comments and review draft TIP document	3 rd Quarter
Final revisions to 2012-2015 TIP	4 th Quarter

PARTICIPANTS: Howard County

BUDGET: \$ 5,080

PROJECT: SUBAREA ANALYSIS: HOWARD COUNTY RESPONSIBILITIES**SUBPART A: FOCUSED HIGHWAY 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 for the County's next General Plan and the Regional Vision process as it relates to Howard County. Adjustments to the regional network, the regional zone structure and trip generation inputs will be pursued as needed to develop reliable corridor level 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.

Regional Justification:

- Detailed validation of the BMC Model for 2008 in Howard County will include emphasis on detailing the traffic simulation network and traffic analysis zones in Columbia Town Center and vicinity and for the MD 32 corridor from east of US 29 to the BW Parkway and will provide additional testing and understanding of the performance of the revised BMC model chain.
- 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 System (CMS).

FY 2011 PERFORMANCE OBJECTIVES:

1. Refine 2008 BMC validation for the Howard County 2008 validation transportation network with adjustments to for traffic analysis zone splits, trip generation inputs, traffic speed, capacity and link detail as needed.
2. Based on refinements to the 2008 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 arterial and major collector highway facilities and selected minor collector roads.

PRODUCTS/MILESTONES	SCHEDULE
Develop detailed 2008 Validation and documentation for Howard County including network detailing for Columbia Downtown.	1 st & 2 nd Quarters
A year 2035 transportation network and related trip generation inputs based on refinements to the Howard County 2005 validation network.	2 nd & 3 rd Quarters
Year 2035 unrefined simulated traffic based on the refined BMC 2020 transportation network and revised 2008 transportation model.	3 rd Quarter
Refine traffic forecasts and document refinement process.	4 th Quarter

PARTICIPANTS: Howard County, Consultants

BUDGET: \$113,000

SUBPART B: TRANSIT PLANNING

PURPOSE: This project evaluates the impacts the Howard Transit system service modifications including route and frequency of service modifications. This initiative will allow Howard County to apply transit performance guidelines to identify cost and performance effectiveness of the new route modifications. Route analysis will also be applied to further refine Howard Transit coordination with Connect-A-Ride and the Maryland Transit Administration's routes and schedules.

Regional Justification:

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

FY 2011 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 2010/2011 performance data	1 st Quarter
Produce graphics and charts of the application of efficiency measures to Howard Transit	2 nd & 3 rd Quarters
Prepare revised route maps and schedules as needed	4 th Quarter

PARTICIPANTS: Howard County

BUDGET: \$10,700

**SUBPART C: MULTIMODAL ORIGIN/DESTINATION STUDY
 COLUMBIA TOWN CENTER**

PURPOSE: This work task is offered for FY 2011. The study will determine the number of people traveling to, thru and within Columbia Town Center via transit and automobiles, and commercial trucks including bus; and to determine their trip origins and destinations. The purpose is to establish an existing condition baseline including a profile of the current mode share within the study area.

REGIONAL PERFORMANCE OBJECTIVES:

1. The study will attempt to understand the regional influence of Columbia Downtown and assist in providing base information that will further assist in calibrating the regional model.
2. Results from the study will yield a better understanding of inter-regional trip attractions and productions and potential regional air quality impacts of the existing configuration of a regional center.
3. Study results will include an Origin/Destination (O/D) matrix for Columbia Downtown that will extend across regional boundaries to encompass both the Baltimore and Washington D.C. metropolitan areas.
4. The O/D matrix will be designed to be factored based on projected changes in land use in the regional town center.
5. As funding permits there will be a comparison to a simulation O-D matrix based on the BMC model.

PRODUCTS/MILESTONES	SCHEDULE
Traffic Counts including classification counts, transit usage counts and Origin Destination Results	1 st & 2 nd Quarters
Origin Destination Matrix, by trip mode Map and Geographic Representation of Results	3 rd Quarter
Technical Memorandum Summarizing Findings	4 th Quarter

PARTICIPANTS: Howard County, Consultant(s)

BUDGET: \$489,000

SUBPART D: BICYCLE AND PEDESTRIAN REGIONAL PROJECT PLANNING AND LOCATION ANALYSIS

PURPOSE: To enhance and augment previously identified pedestrian and bicycle improvement proposals for locations of regional significance. Year 2011 activities will conclude design, preliminary engineering and right of way identification of key projects from the Howard County Pedestrian Facilities Master Plan. Pedestrian/bicycle location and usage counts will have been performed in the communities where projects are proposed, and 30% designs will be developed for specified locations. In addition to the design elements will incorporate as applicable, cross walks, signal design and other site-specific solutions to ped/bike problems.

FY 2011 PERFORMANCE OBJECTIVES:

1. Identify and select locations of Regional significance from the Pedestrian Facilities Master Plan as well as locations with high incidence of ped/bike collisions and map these locations.
2. Conduct ped/bike location/usage counts.
3. Map ped/bike counts with GIS and develop cost estimates and right of way needs inventory.
4. Identify key pedestrian/bicycle project locations and coordinate with consultant to develop initial 30% designs for those locations. Consider location of bicycle lockers for bicycle commuters and to provide a more secure environment for bicycle commuters.
5. Coordinate with consultant to develop preliminary cost estimates; right of way needs inventories and environmental review criteria for these locations.
6. Work with consultant to asses costs/benefits using count and collision data and the cost estimates for proposed improvements. Share count and accident mapping with stakeholder agencies e.g. Police, Traffic Engineering, SHA etc.

PRODUCTS/MILESTONES	SCHEDULE
Field survey and counts of ped/bike locations of regional significance.	1st & 2 nd Quarters
Preliminary engineering and design plans for ped/bike solutions at selected locations.	2 nd & 3 rd Quarters
Cost estimates, estimates of needed right-of-way, count mapping as well as environmental review criteria and pre-construction activities	3 rd & 4 th Quarters

Assess costs/benefits. Convey findings to stakeholders for all selected locations.	4 th Quarter
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PARTICIPANTS: Howard County agencies and consultants

BUDGET: \$30,000

YEAR 2011 TOTAL SUBAREA BUDGET: \$ 642,700