

## **ITEM 7 - Action**

March 19, 2008

Approval of Amendments to FY 2008 Unified Planning Work Program (UPWP), and Approval of FY 2008 UPWP Carryover Funding to FY 2009

### **Staff**

#### **Recommendation:**

- " Adopt resolution R17-2008 to amend the FY 2008 UPWP.
  
- " Adopt resolution R18-2008 to approve the FY 2008 carryover funding for FY 2009.

#### **Issues:**

None

#### **Background:**

The Technical Committee at its March 4 meeting recommended that the attached amendments to the FY 2008 UPWP, together with the FY 2008 carryover funding to FY 2009 be presented to for Board approval.

The final version of the FY 2009 UPWP will incorporate this carryover funding into the final work program to be submitted to the state departments of transportation and the Federal Highway and Transit Administrations.

**TPB R17-2008  
March 19, 2008**

**NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD  
777 North Capitol Street, N.E.  
Washington, D.C. 20002**

**RESOLUTION TO AMEND THE FY 2008 UNIFIED PLANNING WORK PROGRAM TO  
INCLUDE REVISED WORK STATEMENTS AND BUDGETS**

**WHEREAS**, the Joint Planning Regulations issued on February 14, 2007 by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) require a Unified Planning Work Program for Transportation Planning (UPWP); and

**WHEREAS**, the UPWP is required as a basis and condition for all funding assistance for transportation planning to state, local, and regional agencies by the FHWA and FTA; and

**WHEREAS**, the FY 2008 UPWP for the Washington Metropolitan Area was adopted by the TPB on March 21, 2007; and

**WHEREAS**, revised work statements and budgets for projects in the FY 2008 UPWP have been developed by staff , the District of Columbia Department of Transportation (DDOT), the Maryland Department of Transportation (MDOT), the Virginia Department of Transportation (VDOT), and the Washington Metropolitan Area Transit Authority (WMATA) to modify projects and identify funding which will be carried over into FY 2009, as described in the attached materials; and

**WHEREAS**, at its March 4, 2008 meeting, the Technical Committee reviewed the proposed revised work statements and budgets for projects in the FY 2008 UPWP and recommended approval by the TPB;

**NOW, THEREFORE, BE IT RESOLVED THAT:** THE NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD approves amendments to the FY 2008 Unified Planning Work Program for Transportation Planning to include revised work statements and budgets for the FY 2008 UPWP, as described in the attached Memorandum of March 19, 2008 entitled: "FY 2008 UPWP Amendments to Include Revised Work Statements and Budgets" (pages A1-through A-10).

**TPB R18-2008  
March 19, 2008**

**NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD  
777 North Capitol Street, N.E.  
Washington, D.C. 20002**

**RESOLUTION TO APPROVE  
CARRYOVER FUNDING FROM FY 2008 TO THE FY 2009  
UNIFIED PLANNING WORK PROGRAM (UPWP)**

**WHEREAS**, the Joint Planning Regulations issued February 14, 2007 by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) require a Unified Planning Work Program for Transportation Planning (UPWP); and

**WHEREAS**, the UPWP is required as a basis and condition for all funding assistance for transportation planning to state, local, and regional agencies by the FHWA and FTA; and

**WHEREAS**, the FY 2008 UPWP for the Washington Metropolitan Area was adopted by the TPB on March 21, 2007; and

**WHEREAS**, project work statements and budgets for carryover from FY 2008 to FY 2009 have been developed for four projects, and District of Columbia Department of Transportation (DDOT), the Maryland Department of Transportation (MDOT), the Virginia Department of Transportation (VDOT) and the Washington Metropolitan Area Transit Authority (WMATA) Technical Assistance Programs;

**NOW, THEREFORE, BE IT RESOLVED THAT:** THE NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD approves the work statements and budgets for carryover funding from FY 2008 to FY 2009 as described in the attached Memorandum of March 19, 2008 entitled "FY 2008 Carryover Work Statements and Budgets for the FY 2009 UPWP" (pages B-1 through B-13).

# **National Capital Region Transportation Planning Board**

777 North Capitol Street, N.E., Suite 300, Washington, D.C. 20002-4290 (202) 962-3310 Fax: (202) 962-3202

## **M E M O R A N D U M**

March 19, 2008

**TO:** Transportation Planning Board

**FROM:** Gerald Miller  
Director, Program Coordination  
Department of Transportation Planning

**SUBJECT:** FY 2008 UPWP Amendments to Include Revised Work Statements and Budgets

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Attached are pages excerpted from the current FY 2008 UPWP indicating changes to the work statements and/or budgets for the following:

- 2.B. Management, Operations, and Intelligent Transportation Systems Planning: Carry over \$50,000, which is available due to the ability to complete programmed regional Intelligent Transportation Systems (ITS) architecture activities within a lower budget than anticipated. ITS architecture-related strategic planning activities will be undertaken in FY 2009.
- 5.B. Congestion Monitoring and Analysis: Carryover \$140,000, which is available due to not implementing the activity to design an enhanced arterial highway monitoring program to replace the existing program. The design of the enhanced program will be completed in FY 2009.
- 5.C.1 Household Travel Survey: Carryover \$375,000, which is available due to not being able to complete the survey processing by June 30. The processing of the survey data will be completed in FY 2009.
- 5.C.2 Regional Supplemental Bus Survey: Carryover \$75,000, which is available due to not being able to process all of the survey data collected in May. The processing of the survey data will be completed in FY 2009.
- 6. Technical Assistance
  - < District: Carryover \$102,000 from two projects
  - Maryland: Reduce budgets for four planning studies and carryover \$275,000
  - Virginia: Carryover \$67,000 from four projects

- WMATA: Carryover \$80,000 from two projects
- 8. Technical Support for DDOT Highway Performance Monitoring System:  
Carryover \$50,000 of SPR funding from FY 2008 to FY 2009 to complete project.

The total FY 2008 funding to be carriedover is \$1,214,000.

Deletions are shown in strikeout and additions in **bold**.

## PROPOSED AMENDMENTS TO THE FY 2008 UPWP

### 2. COORDINATION PLANNING

#### B. MANAGEMENT, OPERATIONS, AND INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLANNING

It was possible to complete programmed regional Intelligent Transportation Systems (ITS) architecture activities within a lower budget than anticipated.

Oversight: TPB MOITS Policy Task Forces and MOITS Technical Subcommittee

Cost Estimate: ~~\$350,000~~ **\$300,000**

Products: Agendas, minutes, summaries, outreach materials as needed; white paper(s) on technical issues as needed; revised regional ITS architecture; review and advice to MOITS planning activities around the region

Schedule: Monthly

### 5. TRAVEL MONITORING

#### B. CONGESTION MONITORING AND ANALYSIS

This project addresses monitoring efforts on both the freeway system and the arterial roadway system. For all freeways and limited access highways in the region, aerial surveys are conducted on a rotating basis to monitor the performance of the system during: 1) peak periods, and 2) midday during the week, and on weekends. In FY 2008, am and pm peak period vehicular density data will be collected during Spring 2008 and will be the sixth survey in a series dating back to 1993, which is repeated every three years. Data analysis will be completed in FY 2009 including the final report (Summer and Fall).

Performance of the arterial highway system is monitored each year through the conduct of travel time/speed runs on a sample of arterial roadways totaling 363 miles drawn from the National Highway System. Each year approximately one third of the sample roadways are monitored; data are collected and are subsequently analyzed and reported by the end of the fiscal year. In FY 2008, the third year of the third cycle of monitoring will be completed. The results will be compared with the 2002 and 2005 results to study changes to the system over time.

~~In FY 2007, a pilot program to expand the coverage of arterial highway program was undertaken. The goal of the pilot program was to monitor additional roadways (a larger sample) and obtain daily variation. Based on the experience gained the program details will be developed and implemented starting in FY 2008.~~

Total Cost:           \$ ~~521,200~~ **\$381,000**

Oversight:           Travel Forecasting Subcommittee

Products:            Freeway peak period density data files (analysis to be completed in FY 2009)  
                          Arterial Travel Time Report  
                          ~~Technical memorandum documenting first year's results executing new methods for the expanded arterial highway program~~

Schedule:            June 2008.

#### **IV. TRAVEL MONITORING**

##### C. TRAVEL SURVEYS AND ANALYSIS

###### 1. Household Travel Survey

Beginning in January 2007, over a 12-month period, approximately 10,000 households will be surveyed to collect detailed information on the socio-economic characteristics and travel behavior of persons residing in the TPB modeled region. The information collected in this survey will be used in future fiscal years to develop and calibrate regional travel demand forecasting models that are used to predict future travel demands based on projected household and employment growth and planned improvements to the regional transportation system. The last large scale regional household travel survey of this type was conducted more than 10 years ago.

Staff will geocode, edit and tabulate household travel survey data collected by the survey contractor through December 31, 2007. **The geocoding, editing and tabulation of the household travel survey data collected by the survey contractor from January 1, 2008 through March 2008 will be geocoded, edited and tabulated in the first quarter of FY 2009.**

Staff will also continue to provide data files, user documentation and technical support to the users of existing COG/TPB travel survey databases. This work will include special tabulations from these databases to support improvements

in travel forecasting procedures and other COG/TPB transportation planning activities as required.

Oversight: Travel Forecasting Subcommittee

Cost Estimate: ~~\$828,400~~  
~~\$1,200,000~~ in carryover from FY 2007  
~~\$2,028,400~~ total **\$1,653,400**

Products: Geocoded and edited Travel Survey Data, Technical Report

## 2. Regional Bus Passenger Survey

In this project staff will design the 2008 Metrobus and Supplemental Local Bus on-board surveys as a coordinated and complementary regional effort and a survey contractor will be hired for the conduct of both of these two on-board surveys. COG/TPB will supervise and manage the survey contractor and provide overall quality assurance.

Oversight: Regional Bus Planning Subcommittee and WMATA staff

Cost Estimate: - \$750,000 WMATA funding for 2008 Metrobus On-Board Survey  
- ~~\$375,000~~ **\$75,000** FY 2008 UPWP for Supplemental Local Bus On-Board Survey  
~~\$1,125,000~~ **\$1,050,00** total

Products: Bus On-Board Survey Data, Technical Report

Schedule: June 2008

## **V. TECHNICAL ASSISTANCE**

### **A. DISTRICT OF COLUMBIA**

#### DDOT Traffic Counts

Perform machine traffic counts at 187 locations (26 seven day and classification counts and the remaining 3 day total volume counts). These counts are to include HPMS Representative Legs. Counts are to avoid proximity to holidays or unusual days; will be reported in 15 minute increments (in DDOT/Traffic Services Administration (TSA) Excel Format) with hourly and daily summaries;



and will include daily (for weekdays) 10 to 24 hour factors (ratios of 7 am to 1 pm and 2 pm to 6 pm to 24 hour volumes); daily (for all days of the week) peak hour volumes, times and K factors; directional splits and peak hour (by direction and two way) to 24 hour factors. These counts will include quality control checking and tabulation and analysis of data collected in FY 2007.

Cost Estimate: ~~\$133,000~~ **\$53,000**  
\$72,000 in carryover from FY 2007  
~~\$205,000 total~~ **\$125,000**

Products: Machine traffic counts

Schedule: June 2008

~~\$22,000 remains to be programmed~~

TOTAL DISTRICT OF COLUMBIA COST ESTIMATE: ~~\$372,500~~  
**\$270,500**

## B. MARYLAND

### Miscellaneous Services

The miscellaneous account is a mechanism established to address requests from MDOT, SHA, MTA, and local jurisdictions, which are too small or too short-lived to warrant separate work scopes. Authorizations to execute specific tasks are usually given by email or fax; this is particularly useful for quick turnaround. Past work has included requests for electronic data files, hard copy, or plots from any of the planning work activities at COG. Other requests have included participation in technical review committees and task forces and execution of small technical studies.

Cost Estimate: ~~\$78,400~~ **\$28,400**

Schedule: On-going activity

### SHA - Western Mobility / Capital Beltway Studies

This project represents system level forecasting work which is performed in support of ongoing SHA project planning activities. In recent years, COG staff developed and analyzed travel forecasts for various alternatives in each of these corridors. These activities will be continued within this category on a specific request basis, as tasks are received.

Cost Estimate: ~~\$85,000~~ **\$10,000** FY2007 carryover funds

MTA - Corridor Cities Transitway / Purple Line Transit

Recent activities on these project planning studies have primarily been conducted by consultants to the Maryland MTA. This project is designed to provide technical support to MTA and their consultants, including application of the primary travel demand models (assistance with development of model inputs, execution and evaluation of model outputs), incorporation of new transit analysis at the corridor level, and evaluation of results including through use of FTA's Summit model to compare results among the transit alternatives studied.

Cost Estimate: ~~\$85,000~~ **\$35,000** FY2007 carryover funds

Managed Lanes - Planning

This project, initiated in FY2007, involves executing travel demand forecasts for managed lane facility operations in individual corridors, as well as for an integrated system of such lanes, throughout the Maryland portion of the Washington area. The current study is designed to identify candidate corridors / system design where the operation of managed travel lanes appears feasible and effective.

Cost Estimate: ~~\$171,400~~ **\$71,400**  
\$75,000 in carryover from FY 2007  
~~\$246,400~~ **\$146,400** total

Product: Technical reports

Schedule: December 2007

TOTAL MARYLAND COST ESTIMATE: ~~\$579,600~~ **\$304,600**  
~~\$306,300~~ in carryover from FY 2007  
~~\$886,100~~ total **\$611,100**

C. VIRGINIA

Program Development

This project is established to account for TPB staff time spent in developing scopes of work for requested projects and for administering the resultant work program throughout the year.

Work activities will involve meeting with VDOT and VDR&PT staff to discuss projects, draft and finalize work statements and tasks, create project accounts when authorized, and report progress on projects throughout the year.

Cost Estimate: ~~\$11,000~~ **\$1,000**

Product: scopes of work, progress reports

Schedule: on-going activity

### Miscellaneous Services

- A. This work element provides VDOT with the ability to undertake limited scope studies and or data gathering activities identified during its regional and sub-regional planning activity during fiscal year 2007. The Department is currently engaged in examining the merits and priority of a few competing projects which include: traffic volume studies in activity centers outside the Capital Beltway, strengthening of some components of the regional travel demand model, and enhancing the district-wide HOV traffic volume data collection program.
- B. The miscellaneous account is also a mechanism established to address requests, which are too small or too short-lived to warrant separate work scopes. Authorizations to execute specific tasks are usually given by fax; this is particularly useful for quick turnaround. Work items include: requests for hard copy, plots, tape, or diskettes of data from any of the planning work activities at COG, participation in technical review committees and tasks forces and execution of small technical studies.

Cost Estimate: \$17,000 **\$7,000**

Schedule: on-going activity

### Public Safety / Information Pamphlets

~~Production or re-printing of public safety pamphlets for distribution at public meetings on 1) bike safety and use of highways, 2) state code provisions applicable to cyclists and pedestrians, and / or 3) regional map of commuter parking lots.~~

Cost estimate: \$17,000 in carryover from FY 2007

Product: pamphlets

Schedule: Fall 2007 or Winter 2008

### Enhanced Commuter Corridor Count Program Continuation

This work element will continue prior work under this task and will dovetail with the scheduled TPB count program to obtain additional data on modal use in either the I-66 or I-95 / 395 corridors. This additional data will provide statistically reliable information on modal use in the selected corridor that will be beneficial to planners and decision makers. While technical assistance funding will be used for the TPB data collection effort, the success of this work element is predicated on transit providers providing ridership data, free of charge, to be integrated into the overall data analysis. This ridership data must be collected on the same day as the TPB data collection effort in order to accurately depict modal shares.

Cost Estimate:            ~~\$30,000~~ **0**  
                                       \$25,000 carryover from FY 2007  
                                       ~~\$55,000~~ **\$25,000** total

Schedule:                    Data collection to occur in FY 2008

TOTAL VIRGINIA COST ESTIMATE:    ~~\$454,400~~ **\$387,400**  
     ~~-\$98,700~~ carryover from FY 2007  
     ~~\$553,100~~ **\$486,100** total

D. WMATA

Accessible Pathways Analysis for MetroAccess Customers

In this project TPB and WMATA staff will review and assemble relevant regional transportation and MetroAccess data needed to conduct an Accessible Pathways Analysis for MetroAccess Customers. After this information has been assembled, it is anticipated that consultant assistance would be obtained to develop and test a methodology for prioritizing the need for and general routing of accessible pathways for MetroAccess trips. These accessible pathways would achieve two objectives:

- Connect concentrations of MetroAccess patrons with fixed route transit service; and
- Connect fixed route transit service and high-frequency destinations based on existing MetroAccess trip data.

Cost Estimate:            ~~\$200,000~~ **\$170,000** using carryover from FY 2007

Schedule:                    December 2007

~~Impact of Highway Congestion on WMATA Bus Operations~~

~~This project will study the impact of highway congestion on WMATA bus operations & fleet needs. This project will also identify potential improvements~~

~~that could mitigate the adverse effects of this congestion on bus operations and reduce WMATA overall bus fleet needs and operating costs.~~

~~Cost Estimate: \$50,000~~

~~Schedule: June 2008~~

TOTAL WMATA COST ESTIMATE:     ~~\$166,300~~ **\$86,300**  
   ~~-\$250,000~~ carryover from FY 2007  
   ~~\$416,300~~ **\$336,300** total

# National Capital Region Transportation Planning Board

777 North Capitol Street, N.E., Suite 300, Washington, D.C. 20002-4290 (202) 962-3310 Fax: (202) 962-3202

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## MEMORANDUM

March 19, 2008

**TO:** Transportation Planning Board

**FROM:** Gerald Miller  
Director, Program Coordination  
Department of Transportation Planning

**SUBJECT:** FY 2008 Carryover Work Statements and Budgets for the FY 2009 UPWP

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Attached are pages excerpted from the draft FY 2009 UPWP with changes and additions shown in **bold** to reflect the carryover funding from FY 2008 to FY 2009. The FY 2009 work elements affected by the FY 2008 carryover funding are as follows:

- 2.B. Management, Operations, and Intelligent Transportation Systems Planning: Carry over \$50,000, which is available due to the ability to complete programmed regional Intelligent Transportation Systems (ITS) architecture activities within a lower budget than anticipated. ITS architecture-related strategic planning activities will be undertaken in FY 2009.
- 5.B. Congestion Monitoring and Analysis: Carryover \$140,000, which is available due to not implementing the activity to design an enhanced arterial highway monitoring program to replace the existing program. The design of the enhanced program will be completed in FY 2009.
- 5.C.1 Household Travel Survey: Carryover \$375,000, which is available due to not being able to complete the survey processing by June 30. The processing of the survey data will be completed in FY 2009.
- 5.C.2 Regional Supplemental Bus Survey: Carryover \$75,000, which is available due to not being able to process all of the survey data collected in May. The processing of the survey data will be completed in FY 2009.
- 6. Technical Assistance

- < District: Carryover \$102,000 from two projects
  - Maryland: Reduce budgets for four planning studies and carryover \$275,000
  - Virginia: Carryover \$67,000 from four projects
  - WMATA: Carryover \$80,000 from two projects
- 8. Technical Support for DDOT Highway Performance Monitoring System:  
Carryover \$50,000 of SPR funding from FY 2008 to FY 2009 to complete project.

The final version of the FY 2009 UPWP will combine the carryover funding and new funding into one work program for submission to FTA and FHWA. The proposed budget levels for these carryover projects are shown in Table A.

**TABLE A**  
**PROJECT CARROVER FROM FY 2008 TO FY 2009**

Work Activity	FY 2008 Funds
2. COORDINATION PLANNING	
B. Managemen, Operations and ITS Planning	50,000
5. TRAVEL MONITORING	
B. Congestion Monitoring and Analysis	140,000
C.1 Household Travel Survey	375,000
C.2. Regional Supplemental Bus Survey	75,000
<b>Subtotal</b>	<b>640,000</b>
6. TECHNICAL ASSISTANCE	
A. District of Columbia	102,000
B. Maryland	275,000
C. Virginia	67,000
D. WMATA	80,000
<b>Subtotal</b>	<b>524,000</b>
8. Service/Special Projects	50,000
<b>TOTAL</b>	<b>1,214,000</b>



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## CARRYOVER WORK STATEMENTS AND FUNDING FOR THE FY 2009 UPWP

### 2. COORDINATION PLANNING

#### B. MANAGEMENT, OPERATIONS, AND INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLANNING

Under this work task, TPB will provide opportunities for coordination and collaborative enhancement of transportation technology and operations in the region, advised by its Management, Operations, and Intelligent Transportation Systems (MOITS) Policy Task Force and MOITS Technical Subcommittee. Major topics to be addressed include the following:

- Metropolitan Area Transportation Operations Coordination (MATOC) Program and Related Activities: Support member transportation agency efforts to strengthen regional coordination and communications on everyday conditions, management and major regional transportation incidents, particularly through the MATOC Program officially established in FY2007 under a SAFETEA-LU grant.
- Emergency Coordination: Facilitate links between everyday transportation operations planning and overall regional planning for emergencies, especially in coordination with the dedicated UPWP Emergency Preparedness Planning Task 2.C.
- Traveler Information: Coordinate enhancement of the collection, processing, and public delivery of real-time roadway and transit condition information, including potential regional Internet-based and "511" telephone information systems and the University of Maryland's Regional Integrated Transportation Information System (RITIS) project.
- Intelligent Transportation Systems (ITS) Architecture, and Transportation Technology Development and Application: Maintain the regional ITS architecture in accordance with federal law and regulations; help provide coordination of the use of the regional ITS architecture as guidance to regional MOITS communications and technology project implementation; address regional ITS standards; **develop an ITS architecture-related strategic plan.**
- Traffic Signals: Assist member agencies in the exchange and coordination of interjurisdictional traffic signal operations information and activities, including regional annual reporting of operations maintenance and improvement activities.
- Non-Recurring Congestion: Support regional efforts to monitor and analyze

transportation systems conditions, particularly focusing on temporal variations from average conditions, congestion due to incidents, and other non-recurring congestion.

- Traffic and Transit: Coordination with the Regional Bus Planning Task 2.E. and the Regional Bus Subcommittee on planning and information exchange for traffic management, bus operations, and advanced technology.
- Member Agency Activities: Work as needed with the MOITS activities of the state and D.C. departments of transportation, the Washington Metropolitan Area Transit Authority, and other member agencies.
- National issues: Monitor national emerging MOITS activities for potential application in the region.

Oversight: TPB MOITS Policy Task Forces and MOITS Technical Subcommittee

Cost Estimate: \$350,000  
**\$50,000 carryover from FY 2008**  
\$400,000 total

Products: Agendas, minutes, summaries, outreach materials as needed; white paper(s) on technical issues as needed; revised regional ITS architecture **and strategic plan**; review and advice to MOITS planning activities around the region

Schedule: Monthly

## 5. TRAVEL MONITORING

### B. CONGESTION MONITORING AND ANALYSIS

During FY 2008, staff completed the third year of the third cycle of arterial highway congestion monitoring on 365 miles of arterial highways. **In FY 2009 staff will identify an enhanced system of arterial highways that are to be monitored by adding additional routes to the existing National Highway System of arterial highways. Staff will start the first year of the enhanced monitoring program and collect data using both volunteers and paid drivers.** During Spring 2009, the data will be analyzed and a report on the findings of the FY 2009 survey will be prepared.

For the limited access highways in the region we perform an aerial survey to study

the performance of the system during both peak period and off-peak periods. In FY 2008, vehicular density data were collected during the peak periods (am and pm peak). In FY 2009 the consultant will complete the data analysis, and prepare a DVD slide show of the findings. Staff will prepare a presentation based on the consultant report showing how weekday peak period congestion has changed over time in the region by comparing the Spring 2008 survey results with prior year surveys.

Oversight:	Travel Forecasting Subcommittee
Cost Estimate:	\$ 521,200 <b>\$140,000 carryover from FY 2008</b> \$661,200 total
Products:	Freeway System Peak Period Congestion Report - December 2008; Arterial Travel Time Report - June 2009

### C. TRAVEL SURVEYS AND ANALYSIS

#### 1. Household Travel Survey

Cost Estimate:	<b>\$875,000 after \$375,000 carryover from FY 2008</b>
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#### 2. Supplemental Regional Bus Passenger Survey

Cost Estimate:	<b>\$75,000 carryover from FY 2008 to process all of the survey data and complete technical report</b>
Products:	<b>Bus On-Board Survey Data, Technical Report</b>

## 6. TECHNICAL ASSISTANCE

### A. DISTRICT OF COLUMBIA

#### DDOT Traffic Counts

The purpose of this task is to perform continuous 48-hour traffic volume machine counts at approximately 200 locations citywide. The District will provide the exact locations for these counts. The counts performed under this project are in addition to those covered by the HPMS three year cycle count program, and are part of DDOT's annual traffic volume map. These counts will include quality control checking and tabulation and analysis of data collected in FY 2009.

Cost Estimate:	\$100,000 <b>\$80,000 carryover from FY 2008</b> <b>\$180,00 total</b>
Product:	Machine traffic counts
Schedule:	June 2009

#### Bicycle Counts

The purpose of this project is to collect counts of bike traffic, along with certain related information, at a series of locations around the District of Columbia. This data will be used to measure bike traffic over time and to measure the effectiveness of new bike lanes and trails.

Cost Estimate:	\$38,000 <b>\$22,000 carryover from FY 2008</b> <b>\$50,000 total</b>
Product	Bike Counts & Technical Report
Schedule:	Data Collection - Spring 2009 Technical Report - June 2009

TOTAL DISTRICT OF COLUMBIA COST ESTIMATE: \$300,500  
**102,000 carryover from FY 2008**  
\$402,500 total

## B. MARYLAND

### Miscellaneous Services

The miscellaneous account is a mechanism established to address requests from MDOT, SHA, MTA, MdTA and local jurisdictions, which are too small or too short-lived to warrant separate work scopes. Authorizations to execute specific tasks are usually given by email or fax; this is particularly useful for quick turnaround. Past work has included requests for electronic data files, hard copy, or plots from any of the planning work activities at COG. Other requests have included participation in technical review committees and task forces and execution of small technical studies. TPB staff will assist the counties and local jurisdictions in the Washington suburbs of the State of Maryland with implementation of the Maryland Strategic Highway Safety Plan.

**Cost Estimate: \$50,000 carryover from FY 2008**

### SHA - Western Mobility / Capital Beltway Studies

This project represents system level forecasting work which is performed in support of ongoing SHA project planning activities. In recent years, COG staff developed and analyzed travel forecasts for various alternatives in each of these corridors. These activities will be continued within this category on a specific request basis, as tasks are received.

**Cost Estimate: \$75,000 carryover from FY 2008**

### MTA - Corridor Cities Transitway / Purple Line Transit

Recent activities on these project planning studies have primarily been conducted by consultants to the Maryland MTA. This project is designed to provide technical support to MTA and their consultants, including application of the primary travel demand models (assistance with development of model inputs, execution and evaluation of model outputs), incorporation of new transit analysis at the corridor level, and evaluation of results including through use of FTA's Summit model to compare results among the transit alternatives studied.

**Cost Estimate: \$50,000 carryover from FY 2008**

### Managed Lanes

This project, initiated in FY 2007, involves executing travel demand forecasts for managed lane facility operations in individual corridors, as well as for an integrated system of such lanes, throughout the Maryland portion of the Washington area. The current study is designed to identify candidate corridors / system design where the

operation of managed travel lanes appears feasible and effective. The study will also test alternative project limits, cross-sections, and toll levels, for those corridors in the planning phase which appear as candidates for feasible and effective managed lane operations.

Cost Estimate: \$50,000  
**\$100,000 carryover from FY 2008**  
\$150,000 total

Product: Technical reports

Schedule: June 2009

TOTAL MARYLAND COST ESTIMATE: \$581,000  
**\$275,000 carryover from FY 2008**  
\$856,000 total

### C. VIRGINIA

#### Program Development

This project is established to account for TPB staff time spent in developing scopes of work for requested projects and for administering the resultant work program throughout the year.

Work activities will involve meeting with VDOT and VDR&PT staff to discuss projects, draft and finalize work statements and tasks, create project accounts when authorized, and report progress on projects throughout the year.

Cost Estimate: **\$10,000 carryover from FY 2008**

Product: scopes of work, progress reports

#### Miscellaneous Services

- A. This work element provides VDOT and VDRPT with the ability to undertake limited scope studies and or data gathering activities identified during its regional and sub-regional planning activity during fiscal year 2007.
- B. The miscellaneous services account is also a mechanism established to address request that are too small or too short-lived to warrant separate work scopes. Authorizations to execute specific tasks are usually given by fax; this is particularly useful for quick turnaround. Work items include: requests for hard copy, plots, tape, or diskettes of data from any of the planning work activities at COG, participation in technical review committees and tasks forces and execution of small technical studies.

Cost Estimate: **\$10,000 carryover from FY 2008**

Schedule: on-going activity

Enhanced Commuter Corridor Count Program Continuation

This work element will continue prior work under this task and provide an analysis for the outside-the-Beltway screenline in the I-66 corridor for the Northern Virginia Transportation Commission (NVTC). This additional data will provide statistically reliable information on modal use in the selected corridor that will be beneficial to planners and decision makers. Transit ridership data will be collected by NVTC, and provided to MWCOG for the analysis.

Cost Estimate: Data collection: \$25,000  
Report: **\$30,000 carryover from FY 2009**  
Total \$ 55,000

Schedule: Data collection in fall 2008, report writing after data collection completed

Travel Forecast Model Refinements

Using results from the regional travel demand model and comparing the results with ground counts at two or three specific corridor segments of high interest (to be specified by VDOT), recommend refinements to the model to make it even more valuable to VDOT transportation planners and traffic forecasters in responding to location-specific feasibility questions from top VDOT management or local jurisdictions evaluating potential comprehensive plan changes.

Cost Estimate: \$38,000  
**\$17,000 carryover from FY 2009**  
\$55,000 total

Product: study report with recommendations

Schedule: complete work by June 30, 2009

TOTAL VIRGINIA COST ESTIMATE: \$461,600  
**\$67,000 carryover from FY 2008**  
\$528,600 total

D. WMATA

Accessible Pathways Analysis for MetroAccess Customers





**Product: 2007 HPMS Submission**

**Schedule: June 2009**