

# **TRANSPORTATION IMPROVEMENT PROGRAM (TIP)**

**for the**

**Blacksburg/Christiansburg/Montgomery Area  
Metropolitan Planning Organization**

*Fiscal Years 2009-2012*

*Approved June 26, 2008*

*Amended June 11, 2009*

*Adjusted January 11, 2010*

**Blacksburg Christiansburg Montgomery Area  
MPO**

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# Introduction

## **Purpose and Development**

The Transportation Improvement Program (TIP) for the Blacksburg Urbanized Area is a comprehensive listing of transportation activities to be undertaken during the three-year interval for which it is developed. The basic purpose of the TIP is to recommend transportation projects for federal funding while combining the efforts of local jurisdictions into a regionally coordinated plan of improvements. The TIP is developed in accordance with provisions in federal legislation; Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy For Users (SAFETEA-LU). A summary of Highway provision in SAFETEA-LU can be found on the MPO website or at the following link: [www.fhwa.dot.gov/safetealu/summary.htm](http://www.fhwa.dot.gov/safetealu/summary.htm).

Projects are proposed for the TIP by local officials, transit operating officials, the Virginia Department of Transportation and any other agencies or officials responsible for transportation projects within the region. These officials, through the Blacksburg/Christiansburg/Montgomery Area Metropolitan Planning Organization (MPO), select and schedule projects that they support for endorsement in the TIP. The Transportation Improvement Program is endorsed annually by the MPO and may be modified by amendments at any time. MPO membership currently includes officials from Montgomery County, the Towns of Blacksburg and Christiansburg, Blacksburg Transit, Virginia Tech, the New River Planning District Commission, the Virginia Tech/Montgomery Regional Airport Authority, the Virginia Department of Transportation, the Virginia Department of Rail and Public Transportation, the Federal Highway Administration, and the Federal Transit Administration.

The Comprehensive, Continuing, Cooperative (3-C) process of the MPO, provides a natural mechanism by which the plan can be carefully reviewed and updated annually. Annual development of this program helps to clarify future needs, allow revisions to accommodate changing conditions, and allows developing local and regional plans to be continually incorporated. The Technical Advisory Committee to the MPO made up of representatives from local, state, and federal agencies, provides the professional expertise necessary to derive a plan, and ensure that all local and regional interests are considered. Once the program is developed, the MPO reviews and approves the program according to policies adopted by the local governments.

With few exceptions, any proposed transportation project should be included in the TIP to be considered eligible for federal funding. All phases of a project including preliminary engineering, right-of-way acquisitions, or construction should be documented in the TIP.

## **Understanding the TIP**

The arrangement of the Transportation Improvement Program identifies those capital projects anticipated during fiscal years 2008-09, through 2011-12. The project tables generally include a brief description of each project and the projected funding required to complete the project. This document provides detailed project tables for highway improvements including Interstate, Primary, Urban and Secondary system projects; safety improvements, Transportation Enhancement projects, public transportation improvements, and airport improvements.

## **Financial Plan**

The Blacksburg\Christiansburg\Montgomery Area MPO Transportation Improvement Program (TIP) provides a summary of how transportation revenues in the program will be invested over a four year period by the state and local agencies that have legal responsibility to build, operate, and maintain the

state's highway, road, street, airport, and public transit systems. Federally-funded expenditures are required by federal law to be consistent with the FY2030 Long Range Plan adopted in October 2005 and to be constrained to include only projects that we anticipate having enough revenue to complete. A portion of this money is used to maintain and operate the transportation systems. The remainder is for capital projects.

The project tables have been derived from information provided to the MPO staff by the state and local agencies responsible for funding participation. These tables represent the best estimate of project descriptions and costs that can be made in advance of final negotiation. The principal references for the compilation of the roadway improvements section was the Virginia Commonwealth Transportation Board's current Transportation Development Plan, and the reader is directed to this publication for further discussion of the majority of roadway projects included in this report, as well as the Six Year Secondary Road Improvement Program for Montgomery County.

Federal regulations require the TIP to be financially constrained by fiscal year. The STIP must demonstrate that there is enough money available each year to fund projects listed in the TIP for the year. The purpose of the included tables is to demonstrate financial constraint (for Highway Projects, see pp. 19-20; for Transit/Public Transportation Projects, see pp. 24-28; for Airport/Aviation Projects, see pp. 30-31). The tables compare estimated revenues and expenditures by funding source and indicates how much revenue is estimated will be available each year from federal state and local sources.

### ***Definitions and Abbreviations***

- *AC* – Advance Construction
- *ADA* - Americans with Disabilities Act
- *Allocation* - An administrative distribution of funds set apart or designated for a special purpose.
- *Apportionment* - A law that refers to a statutorily prescribed division or assignment of funds. An apportionment is based on prescribed formulas in the law and consists of dividing authorized obligation authority for a specific program.
- *BH* - Bridge Rehabilitation Funds
- *BR* - Bridge Replacement Funds
- *BROS* - Bridge (off-system, not on the federal-aid system)
- *DEMO* – Demonstration
- *Earmarked* - To reserve or set aside for a specific purpose
- *EB* – Equity Bonus
- *EN* - Enhancement Funds

- *Estimated Cost (Type of Work)* - The estimated costs given in this column begin as rough estimates usually based on historical data for the area. As work progresses, a better cost estimate can be developed. The estimated costs are updated at critical stages such as the time of the final field inspections, when plans are more defined and estimates can be relied upon to closely compare with the final project costs.
- To the far left of the *type of Work/Estimated Cost* column box the letters PE, RW, CN and Total appear with the cost estimates to their right.
- PE - This stands for preliminary engineering. In this phase a preliminary field survey, utility location, environmental/historical studies, road design alternatives, drawings, final field inspections and public hearings will be done. This process can take a few months to several years to complete. A time line showing how long this phase will last for this project can be found on this row in the *Actual Allocation* and *Projected Allocation* columns.
- RW - This stands for right-of-way. This is the portion of the project in which negotiations with property owners take place, payments are made and arrangements with utility companies are finalized, to obtain the land necessary for the project. As with the PE portion, the cost estimates are to the right, followed by the time line for the work in this part of the project. Right-of-way work will not begin until most of the preliminary engineering steps are complete.
- CN - This stands for construction. In this phase the project is advertised to prospective contractors for bids. Once the bids are opened and a contract awarded, construction can begin. The cost estimate and time line are shown to the right.
- *Total* - This is the total of all cost estimates and should represent the final estimated cost of the project.
- *F* - Consolidated Primary Funds
- *FAA* - Federal Aviation Administration
- *FTA* - Federal Transit Administration
- *GA* - General Aviation
- *HES* - Hazard Elimination
- *HPD* - High Priority (Demonstration) Projects
- *HSIP* – Highway Safety Improvement Program
- *I* - Interstate Funds
- *ID* - Interstate Discretionary

- *IM* - Interstate Maintenance Funds
- *M* - Urbanized Funds
- *MG* – Minimum Guarantee
- *NHS* - National Highway System Funds
- *PAPI* - Precision Approach Path Indicator
- *PPMS* - Project Planning Management System (VDOT Tracking System Number)
- *RPZ* - Runway Protection Zone RRP - Rail Highway Protective Devices Funds
- *RRP* - Rail Highway Protective Devices Funds
- *RRS* - Rail Highway Grade Separation Funds
- *S* - State Funds
- *STP* - Surface Transportation Program Funds
- *UST* - Underground Storage Tank
- [ ] - Signifies a Very Preliminary Estimate of Cost

## Blacksburg MPO

### Interstate Projects

UPC NO	16389	SCOPE	MAJOR WIDENING			
SYSTEM	Interstate	JURISDICTION	Christiansburg		OVERSIGHT	FO
PROJECT	RTE 81 - MAJOR WIDENING - ROUTE 460 CONNECTOR				ADMIN BY	VDOT
DESCRIPTION	FROM: 3.476 KILOMETERS SOUTH ROUTE 460/11 TO: 0.867 KILOMETERS NORTH ROUTE 460/11 (4.3420 KM)					
ROUTE/STREET	0081				TOTAL COST	\$63,511,058
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	16317	SCOPE	MAJOR WIDENING			
SYSTEM	Interstate	JURISDICTION	Montgomery County		OVERSIGHT	FO
PROJECT	RTE 81 - MAJOR WIDENING - ROUTE 460 CONNECTOR				ADMIN BY	VDOT
DESCRIPTION	FROM: 0.867 KILOMETERS NORTH ROUTE 460/11 TO: 1.936 KILOMETERS NORTH ROUTE 460/11 (1.0690 KM)					
ROUTE/STREET	0081				TOTAL COST	\$9,562,621
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

## Blacksburg MPO

### Primary Projects

UPC NO	14826	SCOPE	NEW CONSTRUCTION			
SYSTEM	Primary	JURISDICTION	Montgomery County		OVERSIGHT	
PROJECT	"SMART HIGHWAY" - 2 LANES ON 4 LANE RIGHT OF WAY - TEST BED				ADMIN BY	VDOT
DESCRIPTION	FROM: ROUTE 460 BYPASS TO: 0.189 KILOMETER WEST ROUTE 723 (2.3400 MI)					
ROUTE/STREET					TOTAL COST	\$44,842,544
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	16931	SCOPE	NEW CONSTRUCTION			
SYSTEM	Primary	JURISDICTION	Montgomery County		OVERSIGHT	FO
PROJECT	RTE IVHS - TEST BED				ADMIN BY	VDOT
DESCRIPTION	FROM: 0.189 KILOMETERS WEST ROUTE 723 TO: 0.671 KILOMETERS EAST ROUTE 723 (0.8600 KM)					
ROUTE/STREET					TOTAL COST	\$24,004,084
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	17345	SCOPE	NEW CONSTRUCTION			
SYSTEM	Primary	JURISDICTION	Montgomery County		OVERSIGHT	NFO
PROJECT	"SMART HIGHWAY" - 2 LANES ON 4 LANE RW - PE & RW ONLY				ADMIN BY	VDOT
DESCRIPTION	FROM: 0.671 KILOMETER EAST ROUTE 723 TO: ROUTE I-81 (6.4000 KM)					
ROUTE/STREET					TOTAL COST	\$114,337,800
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	50828	SCOPE	STUDIES ONLY			
SYSTEM	Primary	JURISDICTION	Montgomery County		OVERSIGHT	FO
PROJECT	SMART ROAD - MANAGEMENT OF RESEARCH - PE ONLY				ADMIN BY	VDOT
DESCRIPTION	FROM: ROUTE 460 BYPASS TO: WEST ROUTE 642					
ROUTE/STREET					TOTAL COST	\$6,084,000
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	81474	SCOPE	STUDIES ONLY			
SYSTEM	Primary	JURISDICTION	Montgomery County		OVERSIGHT	NFO
PROJECT	RTE. VTRS - VA TECH TRANSPORTATION INSTITUTE				ADMIN BY	Locally
DESCRIPTION						
ROUTE/STREET					TOTAL COST	\$7,500,000
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

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UPC NO	84127	SCOPE	STUDIES ONLY			
SYSTEM	Primary	JURISDICTION	Montgomery County	OVERSIGHT		
PROJECT	Smart Road - Research & Operations (Blacksburg) SAFETEA-LU			ADMIN BY	VDOT	
DESCRIPTION						
ROUTE/STREET				TOTAL COST	\$6,391,952	
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
CN	SAFETEA-LU	\$0	\$1,020,000	\$0	\$0	\$0
MPO Note	Project takes place of UPC 81474. SAFETEA-LU earmark funding.					

UPC NO	18156	SCOPE	MAJOR WIDENING			
SYSTEM	Primary	JURISDICTION	Montgomery County	OVERSIGHT	NFO	
PROJECT	RTE 460 - WIDENING & RELOCATION			ADMIN BY	VDOT	
DESCRIPTION	FROM: 1.139 KILOMETER SOUTH SCL BLACKSBURG TO: 1.617 KILOMETER NORTH SCL BLACKSBURG (2.7560 KM)					
ROUTE/STREET	0460				TOTAL COST	\$67,174,000
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note	Project not in FY09 SYP.					

UPC NO	18512	SCOPE	MAJOR WIDENING			
SYSTEM	Primary	JURISDICTION	Montgomery County	OVERSIGHT	FO	
PROJECT	RTE 460 - WIDENING & RELOCATION (INCL CONNECTION TO RTE 114)			ADMIN BY	VDOT	
DESCRIPTION	FROM: 1.427 KILOMETERS EAST ROUTE 460 BUSINESS IN CHRISTIANSBURG TO: 1.139 KILOMETER SOUTH SCL BLACKSBURG (4.4050 KM)					
ROUTE/STREET	0460				TOTAL COST	\$105,845,532
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note	Project not in FY09 SYP.					

UPC NO	57329	SCOPE	ENVIRONMENTALLY RELATED			
SYSTEM	Primary	JURISDICTION	Montgomery County	OVERSIGHT	NFO	
PROJECT	RTE 460 - LANDSCAPING			ADMIN BY	VDOT	
DESCRIPTION	FROM: 1.1 KILOMETERS SOUTH SCL BLACKSBURG TO: 1.6 KILOMETERS NORTH SCL BLACKSBURG (2.8000 KM)					
ROUTE/STREET	0460				TOTAL COST	\$1,046,052
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note	Project not in FY09 SYP.					

## Blacksburg MPO Secondary Projects

UPC NO	4542	SCOPE	RESURFACING			
SYSTEM	Secondary	JURISDICTION	Montgomery County	OVERSIGHT		
PROJECT	RTE 705 - RURAL RUSTIC ROAD (SURFACE TREAT NON-HARDSURFACE)			ADMIN BY	VDOT	
DESCRIPTION	FROM: 0.60 MILE NORTH OF ROUTE 114 (BRIDGES ARE AN EXCEPTION) TO: 1.80 MILES NORTH OF ROUTE 114 (AND WILL BE BUILT LATER) (1.0500 MI)					
ROUTE/STREET	COAL HOLLOW ROAD (0705)			TOTAL COST	\$271,207	
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	85677	SCOPE	RESTORATION & REHAB			
SYSTEM	Secondary	JURISDICTION	Montgomery County	OVERSIGHT		
PROJECT	RTE. 621 - Reconstruct and pave utilizing 3R standards.			ADMIN BY	VDOT	
DESCRIPTION	FROM: 7.5 MILES EAST ROUTE 460 TO: CRAIG COUNTY LINE (4.0000 MI)					
ROUTE/STREET	CRAIG CREEK ROAD (0621)			TOTAL COST	\$3,413,944	
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

## Blacksburg MPO

### Urban Projects

UPC NO	87696	SCOPE	DEMOLITION OF BLDGS, BRIDGES, ETC.			
SYSTEM	Urban	JURISDICTION	Blacksburg	OVERSIGHT		
PROJECT	PROGRESS ST/ GIVENS LANE - DEMOLITION			ADMIN BY	VDOT	
DESCRIPTION	Parcel 13 at int. Givens, N. Main and Mtn. Breeze					
ROUTE/STREET	Givens Lane			TOTAL COST	\$29,350	
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	17682	SCOPE	NEW CONSTRUCTION			
SYSTEM	Urban	JURISDICTION	Blacksburg	OVERSIGHT		
PROJECT	TOMS CREEK ROAD - INTERCHANGE			ADMIN BY	Locally	
DESCRIPTION	AT ROUTE 460 BYPASS (0.4180 KM)					
ROUTE/STREET	TOMS CREEK ROAD			TOTAL COST	\$15,427,832	
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

UPC NO	8746	SCOPE	MAJOR WIDENING			
SYSTEM	Urban	JURISDICTION	Christiansburg	OVERSIGHT		
PROJECT	RTE 114 - PEPPERS FERRY ROAD - WIDEN TO 4 LANES			ADMIN BY	VDOT	
DESCRIPTION	FROM: ROUTE 460 TO: 0.126 KILOMETER WEST WCL (2.4500 KM)					
ROUTE/STREET	PEPPERS FERRY RD (0114)			TOTAL COST	\$26,160,166	
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0
MPO Note						

## Blacksburg MPO

### Miscellaneous Projects

UPC NO	81509	SCOPE	SAFETY/TRAFFIC OPERS/TSM			
SYSTEM	Miscellaneous	JURISDICTION		OVERSIGHT	NFO	
PROJECT	PROJECTS IMPROVEMENTS GRANTS FOR SRTS PROGRAM			ADMIN BY		
DESCRIPTION						
PROGRAM NOTE	Funding identified to be obligated statewide as projects are identified					
ROUTE/STREET				TOTAL COST		
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
PE	STP	\$0	\$2,468,841	\$2,524,501	\$2,581,301	\$2,639,264

UPC NO	T4101	SCOPE				
SYSTEM	Miscellaneous	JURISDICTION	Statewide	OVERSIGHT		
PROJECT	SAFE ROUTES TO SCHOOLS			ADMIN BY	VDOT	
DESCRIPTION						
ROUTE/STREET				TOTAL COST		
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0

UPC NO	81419	SCOPE	SAFETY/TRAFFIC OPERS/TSM			
SYSTEM	Miscellaneous	JURISDICTION	Salem District-wide	OVERSIGHT	NFO	
PROJECT	DISTRICTWIDE ROADWAY SAFETY ASSESSMENT - SALEM			ADMIN BY	VDOT	
DESCRIPTION	FY07 HSIP PROJECT					
ROUTE/STREET	0000				TOTAL COST	\$382,397
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12
		\$0	\$0	\$0	\$0	\$0

## Blacksburg MPO Project Groupings

GROUPING		Construction : Bridge Rehabilitation/Replacement/Reconstruction						
ROUTE/STREET							TOTAL COST	\$19,410,109
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12		
CN	BR	\$2,516,712	\$10,066,848	\$0	\$0	\$0		
	EB	\$8,950	\$35,800	\$0	\$0	\$0		
	STP	\$4,424	\$17,694	\$0	\$0	\$0		
CN TOTAL		\$2,530,086	\$10,120,342	\$0	\$0	\$0		
CN AC		\$188,597	\$754,389	\$0	\$0	\$0		

GROUPING		Construction : Rail						
PROGRAM NOTE		Funding identified to be obligated statewide as projects are identified.						
ROUTE/STREET							TOTAL COST	\$20,242,615
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12		
CN	STP/RR	\$2,024,261	\$4,076,190	\$4,618,851	\$4,713,409	\$4,809,903		

GROUPING		Construction : Safety/ITS/Operational Improvements						
ROUTE/STREET							TOTAL COST	\$63,464,518
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12		
PE	SAFETEA-LU	\$17,000	\$68,000	\$0	\$0	\$0		
	STP AC CONVERSION	\$40,335	\$74,938	\$0	\$86,400	\$0		
PE TOTAL		\$57,335	\$142,938	\$0	\$86,400	\$0		
PE AC		\$0	\$0	\$300,000	\$0	\$0		
RW	EB	\$144,321	\$577,283	\$0	\$0	\$0		
	STP	\$395,964	\$1,583,854	\$0	\$0	\$0		
	STP AC CONVERSION	\$54,364	\$217,455	\$0	\$0	\$0		
RW TOTAL		\$594,648	\$2,378,592	\$0	\$0	\$0		
RW AC		\$0	\$0	\$0	\$0	\$200,000		
CN	EB	\$305,761	\$369,480	\$0	\$853,565	\$0		
	HSIP	\$33,923	\$305,310	\$0	\$0	\$0		
	STP	\$382,989	\$921,399	\$0	\$610,558	\$0		
	STP AC CONVERSION	\$145,176	\$247,671	\$333,034	\$0	\$0		
CN TOTAL		\$867,850	\$1,843,860	\$333,034	\$1,464,123	\$0		
CN AC		\$167,582	\$4,897,954	\$0	\$3,598,778	\$0		

GROUPING		Construction : Transportation Enhancement/Byway/Non-Traditional						
PROGRAM NOTE		Funding identified to be obligated statewide as projects are identified.						
ROUTE/STREET							TOTAL COST	\$71,938,208
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12		
CN	STP/EN	\$17,984,552	\$17,528,628	\$17,828,464	\$18,134,439	\$18,446,677		

GROUPING		Maintenance : Preventive Maintenance and System Preservation					
PROGRAM NOTE		Funding identified to be obligated statewide as projects are identified.					
ROUTE/STREET						TOTAL COST	\$341,997,979
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12	
CN	IM	\$12,224,881	\$42,533,891	\$22,500,180	\$21,691,074	\$23,298,784	
	NH	\$22,996,190	\$20,901,126	\$21,541,649	\$24,436,280	\$25,105,705	
	STP	\$34,997,323	\$25,917,124	\$36,949,967	\$38,025,225	\$39,096,974	
CN TOTAL		\$70,218,394	\$89,352,141	\$80,991,796	\$84,152,579	\$87,501,463	

GROUPING		Maintenance : Preventive Maintenance for Bridges					
PROGRAM NOTE		Funding identified to be obligated statewide as projects are identified.					
ROUTE/STREET						TOTAL COST	\$184,481,671
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12	
CN	BR	\$46,120,418	\$36,508,481	\$47,851,151	\$49,304,256	\$50,817,783	

GROUPING		Maintenance : Traffic and Safety Operations					
PROGRAM NOTE		Funding identified to be obligated statewide as projects are identified.					
ROUTE/STREET						TOTAL COST	\$127,389,290
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12	
CN	NH	\$26,903,494	\$25,848,711	\$26,365,686	\$27,156,656	\$28,242,923	
	STP	\$4,943,829	\$4,750,000	\$4,845,000	\$4,990,350	\$5,189,964	
CN TOTAL		\$31,847,323	\$30,598,711	\$31,210,686	\$32,147,006	\$33,432,887	

GROUPING		Transit : Engineering					
ROUTE/STREET						TOTAL COST	\$100,000
	FUND SOURCE	MATCH	FY09	FY10	FY11	FY12	
PE	EB	\$2,307	\$0	\$0	\$0	\$9,226	
	STP	\$17,482	\$0	\$0	\$0	\$69,929	
PE TOTAL		\$19,789	\$0	\$0	\$0	\$79,155	
PE AC		\$211	\$0	\$0	\$0	\$845	

## Appendix A

### Projects by Grouping

#### Blacksburg MPO

#### Construction : Bridge Rehabilitation/Replacement/Reconstruction

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Primary	18866	Montgomery County RTE 114 - BRIDGE REPLACEMENT ON WBLOVER NS RAILWAY FROM: 0.34 MILE EAST MONTGOMERY-PULASKI CL TO: 0.20 MILE EAST MONTGOMERY-PULASKI CL (0.3000 MI)	0114	\$3,375,380
Primary	50030	Montgomery County RTE 114 - WBL BRIDGE REPLACEMENT OVER THE NEW RIVER FROM: 0.20 MILE EAST MONTGOMERY-PULASKI CO LINE TO: MONTGOMERY-PULASKI CO LINE	0114	\$14,469,776
Secondary	73627	Montgomery County RTE 705 - APPROACHES & BRIDGE REPLACEMENTS FROM: B641 = SLATE BRANCH #6074 (0.75 MILE NORTH OF ROUTE 114) TO: B642 = STROUBLES CREEK # 6307 (1.40 MILE NORTH OF ROUTE 114) (0.5000 MI)	COAL HOLLOW ROAD (0705)	\$1,564,953

#### Construction : Rail

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Rail	T1858	Statewide RAIL SAFETY PROJECTS - STATEWIDE (STIP) Funding identified to be obligated statewide as projects are identified	STIP	\$20,242,615

#### Construction : Safety/ITS/Operational Improvements

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Interstate	T287	Salem District-wide 511 Virginia - Travel Information		\$300,000
Interstate	82093	Statewide SMART TRAVEL & TRAFFIC MANAGEMENT SYSTEM FROM: SALEM & STAUNTON DISTRICT TO: FY07 SAFETEALU EARMARK PROJECT		\$500,000
Interstate	52453	Christiansburg RTE 81 - ROADWAY LIGHTING FROM: 3.476 KM SOUTH INTERSECTION ROUTE 11/460 TO: 1.936 KM NORTH INTERSECTION ROUTE 11/460 (5.4120 KM)	0081	\$4,182,270
Interstate	4462	Montgomery County RTE 81 - REST AREA - BUILDING & PARKING IMPROVEMENTS-PE ONLY FROM: AT REST AREA 21 NORTH AND SOUTH (NEAR RADFORD) TO: MP 108 N&SB - REST AREA 21 N&S	0081	\$439,422
Miscellaneous	81416	Salem District-wide DISTRICTWIDE GUARDRAIL - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	81417	Salem District-wide DISTRICTWIDE ROADSIDE SAFETY - SALEM FY07 HSIP PROJECT	0000	\$0

**Blacksburg MPO****Construction : Safety/ITS/Operational Improvements**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Miscellaneous	81418	Salem District-wide DISTRICTWIDE ROADWAY LIGHTING - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	81420	Salem District-wide DISTRICTWIDE RUMBLE STRIPS - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	81421	Salem District-wide DISTRICTWIDE SHOULDER IMPROVEMENT - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	81422	Salem District-wide DISTRICTWIDE TRAFFIC MARKINGS - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	81423	Salem District-wide DISTRICTWIDE TRAFFIC SIGNALS AND ITS - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	81424	Salem District-wide DISTRICTWIDE - TRAFFIC SIGNS - SALEM FY07 HSIP PROJECT	0000	\$0
Miscellaneous	86665	Salem District-wide RTE. 000 - HSIP District-wide High Risk Rural Roads Salem Salem District High Risk Rural Roads Safety Improvements	0000	\$0
Miscellaneous	86531	Montgomery County HSIP Proactive Safety Projects County of Montgomery Montgomery Co. Safety Projects	9999	\$0
Primary	52514	Montgomery County ROUTE 114 - ALERT DRIVER TO WRONG-WAY DRIVING AT 2 LOCATIONS FROM: 0.54 MILE WEST WCL CHRISTIANSBURG TO: 0.85 MILE WEST WCL CHRISTIANSBURG (0.3100 MI)	0114	\$290,000
Primary	18427	Montgomery County RTE 460 - INSTALL ROADWAY LIGHTING FROM: 1.1 KILOMETERS SOUTH SCL BLACKSBURG TO: 1.6 KILOMETERS NORTH SCL BLACKSBURG (2.7000 KM)	0460	\$1,822,295
Secondary	3680	Montgomery County RTE 685 - WIDEN AND OVERLAY PAVEMENT FROM: ROUTE 736 TO: WCL BLACKSBURG (1.7000 MI)	0685	\$3,947,142
Secondary	86459	Montgomery County RTE. 639 - Reconstruct FROM: 0.05 Mi. W. Rte. 722 TO: 1.24 Mi. E. Rte. 722 (1.2900 MI)	MT. PLEASANT RD. (0639)	\$3,000,000
Secondary	87230	Montgomery County Plant Mix Federal Aid Routes FROM: Var. TO: Var. (2.0000 MI)	VAR. (9999)	\$200,000

**Blacksburg MPO**

**Construction : Safety/ITS/Operational Improvements**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Urban	67974	Blacksburg TOWN OF BLACKSBURG - PRICES FORK ROAD AT NORTH MAIN STREET AND COLLEGE AVENUE	NORTH MAIN ST.	\$9,353,549
Urban	67976	Blacksburg RTE 460 - NORTH MAIN STREET - RECONSTRUCTION FROM: GILES ROAD TO: TABOR ROAD	NORTH MAIN ST. (0460)	\$12,777,016
Urban	67745	Blacksburg RTE 314 - ADD TURN LANE (HES PROJECT) AT STANGER STREET & TOMS CREEK ROAD	PRICES FORK ROAD (0314)	\$133,367
Urban	72525	Blacksburg RTE 412 (PRICES FORK ROAD) - INTERSECTION IMPROVEMENTS AT UNIVERSITY CITY BOULEVARD (0.0800 MI)	PRICES FORK ROAD (0412)	\$2,026,200
Urban	72527	Blacksburg PROGRESS STREET EXTENSION / GIVENS LANE FROM: 0.06 MILE SOUTH ASHFORD COURT/GIVENS LANE TO: .07 MILE EAST NORTH MAIN ST/.01 MILE NORTH CHEROKEE DR. (1.4800 MI)	PROGRESS STREET	\$13,940,604
Urban	67975	Blacksburg INT IMPROVEMENTS TO ENHANCE PEDESTRIAN SAFETY & TRAFFIC FLOW FROM: VAR.INTER.IN TOWN OF BLACKSBURG TO: INCL. PATRICK HENRY DR. & PROGRESS ST. INT.	VAR.INTER.	\$3,987,240
Urban	71586	Christiansburg RTE 114 (PEPPERS FERRY ROAD) - WIDEN TO 4 LANES FROM: 0.789 KM EAST OF WCL CHRISTIANSBURG TO: 0.126 KM WEST OF WCL CHRISTIANSBURG (0.9160 KM)	PEPPERS FERRY RD (0114)	\$6,565,413

**Construction : Transportation Enhancement/Byway/Non-Traditional**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Enhancement	T1868	Statewide ENHANCEMENT PROJECTS - STATEWIDE (STIP) Funding identified to be obligated statewide as projects are identified	STIP	\$71,938,208

**Maintenance : Preventive Maintenance and System Preservation**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Miscellaneous	T4152	Statewide PREVENTATIVE MAINTENANCE AND SYSTEMS OPERATIONS Funding Identified to be Obligated Statewide as Projects are Identified	SOPS	\$341,997,979

**Maintenance : Preventive Maintenance for Bridges**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Miscellaneous	T3748	BRIDGE SAFETY INSPECTION REHABILITATION AND RECONSTRUCTION Funding Identified to be Obligated Statewide as Projects are Identified	SOPS	\$184,481,671

**Blacksburg MPO**

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**Maintenance : Traffic and Safety Operations**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Miscellaneous	T3746		SOPS	\$127,389,290

TRAFFIC AND SAFETY OPERATIONS

Funding Identified to be Obligated Statewide as Projects are Identified

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**Transit : Engineering**

System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Urban	70594	Christiansburg	114/460 CONNECT. (0114)	\$100,000
		RTE 114 - CONNECTOR TO ROUTE 460 PE Only		

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**TABLE C : Blacksburg MPO  
FEDERAL FUNDING CATEGORIES STATEWIDE  
FISCAL CONSTRAINT OF YEAR**

Highway Projects  
FFY 2009 - 2012

Fund Source	FFY 2009		FFY 2010		FFY 2011		FFY 2012		TOTAL	
	Estimated Revenue	Proposed Commitment	Estimated Revenue	Proposed Commitment	Estimated Revenue	Proposed Commitment	Estimated Revenue	Proposed Commitment	Estimated Revenue	Proposed Commitment
<b>Federal</b>										
BR/BROS	\$10,066,848	\$10,066,848	\$0	\$0	\$0	\$0	\$0	\$0	\$10,066,848	\$10,066,848
EB/MG	\$982,563	\$982,563	\$0	\$0	\$853,565	\$853,565	\$9,226	\$9,226	\$1,845,354	\$1,845,354
SAFETEALU	\$1,020,000	\$1,020,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020,000	\$1,020,000
STP	\$3,368,321	\$3,368,321	\$333,034	\$333,034	\$696,958	\$696,958	\$69,929	\$69,929	\$4,468,242	\$4,468,242
<b>Subtotal -- Federal</b>	<b>\$15,437,732</b>	<b>\$15,437,732</b>	<b>\$333,034</b>	<b>\$333,034</b>	<b>\$1,550,523</b>	<b>\$1,550,523</b>	<b>\$79,155</b>	<b>\$79,155</b>	<b>\$17,400,444</b>	<b>\$17,400,444</b>
<b>Other</b>										
Non-Federal	\$4,227,625	\$4,227,625	\$0	\$0	\$3,598,778	\$3,598,778	\$845	\$845	\$7,827,248	\$7,827,248
State Match	\$4,138,801	\$4,138,801	\$83,259	\$83,259	\$387,631	\$387,631	\$20,000	\$20,000	\$4,629,691	\$4,629,691
<b>Subtotal -- Other</b>	<b>\$8,366,426</b>	<b>\$8,366,426</b>	<b>\$83,259</b>	<b>\$83,259</b>	<b>\$3,986,409</b>	<b>\$3,986,409</b>	<b>\$20,845</b>	<b>\$20,845</b>	<b>\$12,456,939</b>	<b>\$12,456,939</b>
<b>Total</b>	<b>\$23,804,158</b>	<b>\$23,804,158</b>	<b>\$416,293</b>	<b>\$416,293</b>	<b>\$5,536,932</b>	<b>\$5,536,932</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$29,857,383</b>	<b>\$29,857,383</b>
<b>Federal - AC (1)</b>										
MG/EB	\$865,783	\$865,783	\$0	\$0	\$0	\$0	\$0	\$0	\$865,783	\$865,783
STP	\$558,935	\$558,935	\$300,000	\$300,000	\$0	\$0	\$200,000	\$200,000	\$1,058,935	\$1,058,935
<b>Subtotal -- Federal - AC (1)</b>	<b>\$1,424,718</b>	<b>\$1,424,718</b>	<b>\$300,000</b>	<b>\$300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$200,000</b>	<b>\$1,924,718</b>	<b>\$1,924,718</b>
<b>Multiple MPOs - Federal (3)</b>										
SAFETEALU	\$68,000	\$68,000	\$0	\$0	\$0	\$0	\$0	\$0	\$68,000	\$68,000
<b>Subtotal -- Multiple MPOs - Federal (3)</b>	<b>\$68,000</b>	<b>\$68,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$68,000</b>	<b>\$68,000</b>
<b>Multiple MPOs - Other (3)</b>										
State Match	\$17,000	\$17,000	\$0	\$0	\$0	\$0	\$0	\$0	\$17,000	\$17,000
<b>Subtotal -- Multiple MPOs - Other (3)</b>	<b>\$17,000</b>	<b>\$17,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$17,000</b>	<b>\$17,000</b>
<b>Statewide - Federal (4)</b>										
BR/BROS	\$36,508,481	\$36,508,481	\$47,851,151	\$47,851,151	\$49,304,256	\$49,304,256	\$50,817,783	\$50,817,783	\$184,481,671	\$184,481,671
EN	\$17,528,628	\$17,528,628	\$17,828,464	\$17,828,464	\$18,134,439	\$18,134,439	\$18,446,677	\$18,446,677	\$71,938,208	\$71,938,208
IM	\$42,533,891	\$42,533,891	\$22,500,180	\$22,500,180	\$21,691,074	\$21,691,074	\$23,298,784	\$23,298,784	\$110,023,929	\$110,023,929
NHS	\$46,749,837	\$46,749,837	\$47,907,335	\$47,907,335	\$51,592,936	\$51,592,936	\$53,348,628	\$53,348,628	\$199,598,736	\$199,598,736
RAIL	\$4,076,190	\$4,076,190	\$4,618,851	\$4,618,851	\$4,713,409	\$4,713,409	\$4,809,903	\$4,809,903	\$18,218,353	\$18,218,353

FFY 2009 - 2012

Fund Source	FFY 2009		FFY 2010		FFY 2011		FFY 2012		TOTAL	
	Estimated Revenue	Proposed Commitment								
SAFE ROUTES TO SCHOOL	\$2,468,841	\$2,468,841	\$2,524,501	\$2,524,501	\$2,581,301	\$2,581,301	\$2,639,264	\$2,639,264	\$10,213,907	\$10,213,907
STP	\$30,667,124	\$30,667,124	\$41,794,967	\$41,794,967	\$43,015,575	\$43,015,575	\$44,286,938	\$44,286,938	\$159,764,604	\$159,764,604
TRANSIT - EQUITY BONUS	\$9,244,023	\$9,244,023	\$9,433,268	\$9,433,268	\$9,626,388	\$9,626,388	\$9,823,461	\$9,823,461	\$38,127,140	\$38,127,140
TRANSIT - STP	\$13,669,626	\$13,669,626	\$13,949,473	\$13,949,473	\$14,235,049	\$14,235,049	\$14,526,472	\$14,526,472	\$56,380,620	\$56,380,620
<b>Subtotal -- Statewide - Federal (4)</b>	<b>\$203,446,641</b>	<b>\$203,446,641</b>	<b>\$208,408,190</b>	<b>\$208,408,190</b>	<b>\$214,894,427</b>	<b>\$214,894,427</b>	<b>\$221,997,910</b>	<b>\$221,997,910</b>	<b>\$848,747,168</b>	<b>\$848,747,168</b>
<b>Statewide - Other (4)</b>										
State Match	\$38,042,415	\$38,042,415	\$41,858,705	\$41,858,705	\$43,445,633	\$43,445,633	\$44,848,194	\$44,848,194	\$168,194,947	\$168,194,947
<b>Subtotal -- Statewide - Other (4)</b>	<b>\$38,042,415</b>	<b>\$38,042,415</b>	<b>\$41,858,705</b>	<b>\$41,858,705</b>	<b>\$43,445,633</b>	<b>\$43,445,633</b>	<b>\$44,848,194</b>	<b>\$44,848,194</b>	<b>\$168,194,947</b>	<b>\$168,194,947</b>

(1) AC -- Advance Construction -- Funding Included in Federal Category based on year of AC Conversion.

(2) CMAQ/RSSTP includes funds for TRANSIT projects.

(3) Multiple MPO Category - Funding to be obligated in Multiple MPO Regions.

(4) Statewide Category - Funding to be obligated Statewide for projects as identified.

## **MASS TRANSPORTATION PROGRAM**

### **Federal Mass Transportation Funding**

Federal grants for public transportation programs are authorized by the Federal Transit Act Amendments of 1991. Brief descriptions of funding categories for capital and operating expenses are given below.

*Section 5309 (Formerly Section 3)* - These funds are used primarily for large scale capital investment projects such as the construction/implementation of new mass transit systems. Other qualifying projects include extension of existing fixed guide way facilities, new bus or other rolling stock purchases, improvements for rail or bus systems, purchase of right of way and construction of intermodal transfer centers. Section 5309 funds are available to local transit programs on a formula and discretionary basis with 40% of the funds allocated to new rail starts, 40% for rail modernization, and 20% for purchase, replacement, and rehabilitation of buses and related equipment.

Section 5309 projects receive 80% federal funding. Project priority is determined by the state outside of Transportation Management Areas (TMAs - those urbanized areas having a population greater than 200,000). The Metropolitan Planning Organization (MPO) has responsibility for setting project priorities within TMAs.

*Section 5307 (Formerly Section 9)* - These funds may be used for capital and operating expenses. Section 5307 funds are allocated by formula to states for distribution to urbanized areas with a population greater than 50,000. Distribution of these funds to urbanized areas with less than 200,000 is at the state's discretion. States may transfer a limited portion of these funds to Section 5311 (rural transit programming) if approved by an urbanized area declining funds. Operating subsidies may be used for highway projects under certain circumstances.

The Federal Transit Administration will fund 90% of the costs of capital projects to improve bicycle access to mass transit or meet the requirements of the Clean Air Act or Americans with Disabilities Act. Otherwise the federal share of capital costs is 80%. Section 5307 funds can only provide 50% of total operating cost.

MPOs have responsibility for setting project priority within urbanized areas with a population over 200,000. The state has responsibility otherwise.

*Section 5310 (Formerly Section 16)* - These funds are available to qualifying private non-profit and public agencies to purchase vehicles and equipment necessary to provide special transportation services for elderly and disabled clients. Funds may not be used for operating expenses.

Such acquisitions may receive up to 80% federal funding of the total cost of equipment. Project priority is the responsibility of the state for urbanized areas with a population under 200,000.

*Section 5311 (Formerly Section 18)* - These formula grants are awarded to states for

distribution to rural or small urban areas (i.e. areas under 50,000 population) for general public transit projects. Funds may be used for capital or operating expenses.

Up to 80% of capital improvements and up to 50% for operating expenses may be federally funded. Project priority is determined by the state.

The Federal Transit Administration has several other funding programs that are for planning purposes and are generally not referred to in the Transportation Improvement Program. These are Section 5303 (Formerly Section 8) and the Transit Planning and Research Program. One other program is available to encourage development of new privately operated transit services, which is the Entrepreneurial Services Challenge Program.

#### Mass Transportation Project Justification Narratives

In accordance with FTA reporting procedures discussion of the justification for individual projects applied for under Section 5309 and 5307 of the Urban Mass Transportation Act must be included in the TIP. Section 5310 projects, which are reported through the Virginia Department of Rail and Public Transportation Division, remain unaffected by this requirement.

*Operating Assistance (Blacksburg Transit)*

Blacksburg Transit, a department of the Town of Blacksburg, Virginia, is the designated recipient of state and federal aid programs for public transit service. BT provides transit service to roughly 52,000 residents of the MPO area. Transit service is provided within the Town of Blacksburg, with a route that runs through Montgomery County to the Town of Christiansburg. Since a majority of Blacksburg Transit ridership is associated with the local university, Virginia Tech, service schedules coincide with the class schedules at the university.

During regular service the hours of operation are:

Monday – Thursday	7:00am to 12:45am
Friday	7:00am to 2:45am
Saturday	9:30am to 2:45am
Sunday	11:30am to 11:30pm

During break service the hours of operation are:

Monday – Friday	7:00am to 10:30pm
Saturday	9:30am to 7:15pm
Sunday	11:30am to 7:15pm

There is no Sunday service during summer.

Blacksburg Transit's complementary paratransit service is known as *BT ACCESS*. *BT ACCESS*' door-through-door service for disabled persons in the community is widely recognized as one of the best in the state.

Blacksburg Transit maintains an active fleet of 36 full-sized transit buses and 9 paratransit vehicles. Blacksburg Transit's fleet is 100 percent accessible. Morning pull during regular service is 24 transit buses and 4 paratransit vans. BT provided 2.4 million passenger trips during fiscal year 2007.

The BCM MPO policy board has authorized the Town Manager of the Town of Blacksburg on behalf of the BCM MPO to seek federal and state funding to support transit services. The projected program budget for fiscal year 2009 is for expenditures to be incurred for the provision of a standard level of transit service system-wide and represents no major changes in eligible expense categories from the previous grant year.

**PUBLIC TRANSPORTATION IMPROVEMENT PROGRAM - Fiscal Year 2008-2009**

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
<b>Total Operating Expenses</b>	\$4,777,410	\$1,440,127	FTA Sect. 5307	\$799,727	Formula	\$2,537,556	Local Funds
<b>Capital Expenses</b>							
Replacement Rolling Stock	\$100,800	\$80,640	FTA 5309 '08	\$20,160	STTF		Local Funds
Expansion Rolling Stock	\$417,300	\$333,840	Statewide STP	\$80,704	MTTF/MTF	\$2,756	Local Funds
All Other Capital Projects	\$331,796	\$265,437	Statewide STP	\$46,475	MTTF/MTF	\$19,884	Local Funds
<b>Total Capital Blacksburg Transit</b>	\$849,896	\$679,917		\$147,339		\$22,640	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
Job Access Reverse Communitie Grant Revenues	\$915,148	\$427,574	FTA JARC Program			\$427,574	Local Funds
<b>Total Blacksburg Transit- JARC Grant</b>	\$915,148	\$427,574				\$427,574	Local Funds

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Valley Community Services</b>							
<b>Capital Expenses</b>							
Replacement Rolling Stock	\$194,000	\$155,200	FTA Sect. 5310			\$38,800	Local Funds
<b>Totals for NRVCS</b>	\$194,000	\$155,200				\$38,800	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Planning District Commission</b>							
<b>Operating Expenses</b>							
New Freedom-JARC (Mobility Manager)	\$60,000	\$48,000	FTA New Freedom	\$11,400	SPT	\$600	Local Funds
<b>Totals for NRPDC</b>	\$60,000	\$48,000		\$11,400		\$600	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Christiansburg Montgomery Metropolitan Planning Organization</b>							
Transit Planning Grant Budget	\$83,156	\$66,524	FTA Sect. 5303	\$8,316	State HMO funds	\$8,316	Local Jurisdiction Contributions

**PUBLIC TRANSPORTATION IMPROVEMENT PROGRAM - Fiscal Year 2009-10**

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
<b>Total Operating Expenses</b>	\$5,190,395	\$1,510,330	FTA Sect. 5307 ARRA	\$560,623	Formula	\$2,480,000	Local Funds
<b>Capital Expenses</b>		\$ 171,748					
<b>Replacement Rolling Stock</b>	\$5,833,200	\$1,268,800	Flexible STP/ARRA FTA	\$253,760	Bonds	\$63,440	Local Funds
<b>Expansion Rolling Stock</b>	\$509,767	\$368,000	Flexible STP	\$123,367	Bonds	\$18,400	Local Funds
<b>All Other Capital Projects</b>	\$459,104	\$146,112	Flexible STP/ARRA FTA	\$29,222	Bonds	\$7,306	Local Funds
<b>Total Capital Blacksburg Transit</b>	\$6,802,071	\$1,782,912		\$406,349		\$89,146	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
<b>Job Access Reverse Commute Grant-Operating Revenues</b>	\$133,044	\$59,022	FTA JARC Program			\$59,022	Local Funds
<b>Total Blacksburg Transit-JARC Grant</b>	\$133,044	\$59,022				\$74,022	Anticipated revenues

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Valley Community Services</b>							
<b>Capital Expenses</b>							
<b>Replacement Rolling Stock</b>	\$114,000	\$91,200	FTA Sect. 5310			\$22,800	Local Funds
<b>All Other Capital</b>			FTA Sect. 5310				Local Funds
<b>Totals for NRVCS</b>	\$114,000	\$91,200				\$22,800	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Planning District Commission</b>							
<b>Operating Expenses</b>							
<b>New Freedom-JARC (Mobility Manager)</b>		\$0	FTA New Freedom		SPT		Local Funds
<b>Totals for NRPDC</b>	\$0	\$0		\$0		\$0	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Christiansburg Montgomery Metropolitan Planning Organization</b>							
<b>Transit Planning Grant Budget</b>	\$87,819	\$70,254	FTA Sect. 5303	\$8,782	State HMO funds	\$8,782	Local Jurisdiction Contributions

**PUBLIC TRANSPORTATION IMPROVEMENT PROGRAM - Fiscal Year 2010-2011**

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
<b>Total Operating Expenses</b>	\$6,463,942	\$1,527,831	FTA Sect. 5307	\$1,249,574	Formula	\$3,686,537	Local Funds
<b>Capital Expenses</b>							
Replacement Rolling Stock			FTA 5309		STP		Local Funds
Expansion Rolling Stock	\$1,842,500	\$1,474,000	Statewide STP	\$147,400	MTTF/MTF	\$221,100	Local Funds
All Other Capital Projects	\$118,228	\$94,582	Statewide STP	\$8,512	STP/MTTF/MTF	\$15,134	Local Funds
<b>Total Capital Blacksburg Transit</b>	\$1,960,728	\$1,568,582		\$155,912		\$236,234	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
Job Access Reverse Communitie Grant Revenues			FTA JARC Program				Local Funds
<b>Total Blacksburg Transit- JARC Grant</b>	\$0	\$0				\$0	Anticipated revenues

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Valley Community Services</b>							
<b>Capital Expenses</b>							
Replacement Rolling Stock		\$0	FTA Sect. 5310				Local Funds
<b>Totals for NRVCS</b>	\$0	\$0				\$0	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Planning District Commission</b>							
<b>Operating Expenses</b>							
New Freedom-JARC (Mobility Manager)		\$0	FTA New Freedom		SPT		Local Funds
<b>Totals for NRPDC</b>	\$0	\$0		\$0		\$0	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Christiansburg Montgomery Metropolitan Planning Organization</b>							
Transit Planning Grant Budget	\$88,221	\$70,571	FTA Sect. 5303	\$8,825	State HMO funds	\$8,825	Local Jurisdiction Contributions

**PUBLIC TRANSPORTATION IMPROVEMENT PROGRAM - Fiscal Year 2011-2012**

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
<b>Total Operating Expenses</b>	\$6,657,860	\$1,573,666	FTA Sect. 5307	\$1,561,968	Formula	\$3,522,226	Local Funds
<b>Capital Expenses</b>							
Replacement Rolling Stock			FTA 5309		STP		Local Funds
Expansion Rolling Stock	\$750,400	\$600,320	Statewide STP	\$60,032	MTTF/MTF	\$90,048	Local Funds
All Other Capital Projects	\$318,360	\$254,688	Statewide STP	\$23,558	STP/MTTF/MTF	\$40,114	Local Funds
<b>Total Capital Blacksburg Transit</b>	\$1,068,760	\$855,008		\$83,590		\$130,162	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Transit</b>							
Job Access Reverse Communte Grant Revenues			FTA JARC Program				Local Funds
<b>Total Blacksburg Transit- JARC Grant</b>	\$0	\$0				\$0	Anticipated revenues

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Valley Community Services</b>							
<b>Capital Expenses</b>							
Replacement Rolling Stock		\$0	FTA Sect. 5310				Local Funds
<b>Totals for NRVCS</b>	\$0	\$0				\$0	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>New River Planning District Commission</b>							
<b>Operating Expenses</b>							
New Freedom-JARC (Mobility Manager)		\$0	FTA New Freedom		SPT		Local Funds
<b>Totals for NRPDC</b>	\$0	\$0		\$0		\$0	

Recipient/Project Description	Total Project Cost	Federal Funds	Federal Funds Source	State Funds	State Funds Source	Local Funds	Local Funds Source
<b>Blacksburg Christiansburg Montgomery Metropolitan Planning Organization</b>							
Transit Planning Grant Budget	\$90,868	\$72,694	FTA Sect. 5303	\$9,087	State HMO funds	\$9,087	Local Jurisdiction Contributions

# Statewide Transportation Improvement Program for Transit and TDM Projects FY06 - FY10

Metropolitan Planning Organization: Blacksburg Area Metropolitan Planning Organization													
Name of Federal Funds Recipient: Blacksburg Transit													
MPO Project Number	Category	Project Description	FY06 (\$ in 000's)		FY07 (\$ in 000's)		FY08 (\$ in 000's)		FY09 (\$ in 000's)		FY10 (\$ in 000's)		Comments
			Amount	FY	Amount	Source	Amount	Source	Amount	Source	Amount	Source	
1	Bus Project	Operating Assistance	1,188	FY06	1,256	FTA 5307	1,374	FTA 5307	1,374	FTA 5307	1,374	FTA 5307	
1	Bus Project	Operating Assistance	2,497	FY06	3,298	Non Fed.	3,249	Non Fed.	3,249	Non Fed.	3,249	Non Fed.	
2	Bus Project	Expansion Rolling Stock	229	FY06		State STP							
2	Bus Project	Expansion Rolling Stock	57	FY06		Non Fed.							
3	Bus Project	Expansion Rolling Stock	475	FY06		State STP							
3	Bus Project	Expansion Rolling Stock	119	FY06		Non Fed.							
4	Bus Project	Replacement Rolling Stock	170	FY06	1,864	Flex STP			2,589	Flex STP	2,292	Flex STP	FY08 Project Moved to FY07
4	Bus Project	Replacement Rolling Stock	42	FY06	466	Non Fed.			647	Non Fed.	573	Non Fed.	FY08 Project Moved to FY07
5	Bus Project	Construction of Facilities	480	FY06	80	Flex STP			8,000	FTA 5309			FY08 Project Moved to FY07
5	Bus Project	Construction of Facilities	120	FY06	20	Non Fed.			2,000	Non Fed.			FY08 Project Moved to FY07
6	Bus Project	Preventative Maintenance	17	FY06	35	Flex STP							FY08 Project Moved to FY07
6	Bus Project	Preventative Maintenance	4	FY06	9	Non Fed.							FY08 Project Moved to FY07
7	Bus Project	All Other Capital Projects	86	FY06	403	Min. Guar.			38	Flex STP	128	Flex STP	
7	Bus Project	All Other Capital Projects	22	FY06	102	Non Fed.			10	Non Fed.	32	Non Fed.	
7	Bus Project	All Other Capital Projects			403	Flex STP							FY08 Project Moved to FY07
7	Bus Project	All Other Capital Projects			101	Non Fed.							FY08 Project Moved to FY07
8	Bus Project	Expansion Rolling Stock			783	FTA 5309							SAFETEA-LU
8	Bus Project	Expansion Rolling Stock			196	Non Fed.							SAFETEA-LU
9	Bus Project	Replacement Rolling Stock			41	FTA 5309							SAFETEA-LU
9	Bus Project	Replacement Rolling Stock			10	Non Fed.							SAFETEA-LU
10	Bus Project	Replacement Rolling Stock			86	FTA 5309		266	FTA 5309				SAFETEA-LU
10	Bus Project	Replacement Rolling Stock			22	Non Fed.		67	Non Fed.				SAFETEA-LU
11	Bus Project	Eng./Design of Facilities			82	Min. Guar.							SAFETEA-LU
11	Bus Project	Eng./Design of Facilities			23	Non Fed.							SAFETEA-LU
12	Bus Project	Eng./Design of Facilities			198	FTA 5309							SAFETEA-LU

## PROGRAM NARRATIVE

### Virginia/Tech/Montgomery Executive Airport

The Virginia Tech/Montgomery Executive Airport received verbal confirmation from the Federal Aviation Administration that its Master Plan Update had been approved as of April 2008. This update provides the guidance for the airport's development program over the next 20 years. The Master Plan is designed to address development through a three stage program focusing on the five, ten and twenty year capital plan. In response to the Federal Aviation Administration and the Virginia Department of Aviation requirements, the Virginia Tech/Montgomery Executive Airport is required to maintain a six (6) year Airport Capital Improvement Plan and to update that plan annually.

#### Current Year FY08

**1.) Environmental Assessment:** Several development projects identified over the short term planning horizon will require some level of environmental approval prior to receiving state and federal funds. Many of these projects are related to the runway extension, relocation of a collector road, and expansion of the apron area. The first step in the airport's development program is the Environmental Assessment which will be followed by design and construction projects. A grant application for the Environmental Assessment has been forwarded to both the federal and state agencies and is expected to begin in early June of 2008. This project is anticipated to take two years, and has a projected cost of \$437,951. The FAA will fund 95% of this project or \$416,053 while VDOA will fund 3% or \$13,139. The Airport Authority will pay the remaining 2% or, \$8,759.

#### For August 2008 Year 1-FY09

**1.) Runway Protection Zone, Service Station Demolition:** This is a continuation of an existing airport safety project. This structure is expected to be vacated midway through FY09. Once vacant, the structure will be razed and the materials removed. Appropriate erosion and sediment control measures will be applied and the area seeded and graded to blend in with the adjoining parcels. The projected cost of this project is \$177,776. The Airport Authority requests from the FAA a grant to fund 95% of the project or \$168,887 and a grant from VDOA to fund 3% or \$5,333 of the project. The Airport Authority will fund the remaining 2% or \$3,555.

**2.) Replace ODAL's and Refurbish Beacon (Construction):** This project involves the replacement of seven ODAL fixtures on existing bases and towers that are to remain. The planning and design for this project was completed in FY08. The project will require 2,600 linear feet of new L-824 airfield cable and 3,360 linear feet of new underground conduit that will be installed to serve the replacement fixtures. Also included is the refurbishment of the current Airport Beacon. The work includes a new road bore crossing as well as the associated erosion and sediment control measures such as seeding.

Total project cost is \$159,925. The Airport Authority is requesting from VDOA an 80% funding grant for this project or \$127,940. The Airport Authority will fund the remaining 20% or \$31,985.

**3.) Airfield Security Fencing:** The project involves securing an area of approximately 1,000 feet with 8 foot chain link security fencing. The fence post will be set in concrete and be topped with three strands of security wire. A 40 foot electronic cantilever access gate will be installed to provide immediate access to the airport for emergency service providers. The Airport Authority is requesting from VDOA a 90% funding grant for this project or \$45,000 of this \$50,000 project.

**For August 2009 Year 2-FY10**

Subject to a satisfactory environmental finding, the Airport Authority has placed in queue, the following projects for consideration by VDOA and the FAA.

FY10	FAA	DOAV	AIRPORT	TOTAL
RPZ RUNWAY 30	\$427,500	\$13,500	\$9,000	\$450,000
RPZ/RSA RUNWAY 12 LAS DESIGN	\$161,500	\$5,100	\$3,400	\$170,000
T-HANGAR APRON DESIGN	\$114,000	\$3,600	\$2,400	\$120,000
T-HANGAR SITE/TAXI-WAY DESIGN	\$0	\$48,000	\$12,000	\$60,000
VEGATATIVE OBS. REMOVABLE	\$380,000	\$12,000	\$8,000	\$400,000
FY11				
RPZ/RSA RUNWAY 12 ACQUISITION	\$4,109,700	\$129,780	\$86,520	\$4,326,000
Rwy-Rehab/Reloc, Trail, Road, Design	\$399,000	\$12,600	\$8,400	\$420,000
T-HANGAR APRON CONSTRUCTION	\$2,384,500	\$75,300	\$50,200	\$2,510,000
T-HANGAR SITE PREP TAXI-LANE CON.		\$1,008,000	\$252,000	\$1,260,000
T-HANGAR CONSTRUCTION			\$795,000	\$795,000
FY12				
RELOCATION TECH CENTER DR	\$2,299,500	\$72,600	\$48,000	\$2,420,000
HUCKELBERRY TRAIL RELOCATION	\$313,500	\$9,900	\$6,600	\$330,000
RUNWAY-TAXIWAY DESIGN	\$517,750	\$16,350	10,900	\$545,000
FY13				
RSA 12/30 Grading RWY/TAXI EXT.	\$8,347,270	\$263,598	\$175,732	\$8,786,600
RWY REHABILITATION	\$3,638,500	\$114,900	\$76,600	\$3,830,000
NAVAID RELOCATION	\$351,500	\$11,100	\$7,400	\$370,000
SECURITY FENCING	\$143,640	\$4,536	\$3,024	\$151,200

FY14				
TERMINAL AREA PLAN DESIGN	\$76,000	\$2,400	\$1,520	\$80,000
PERIMETER ROAD DESIGN	\$114,000	\$3,600	\$2,400	\$120,000

***Blacksburg/Christiansburg/Montgomery Area  
Metropolitan Planning Organization***

*June 26, 2008*

**Resolution Approving the FY09-12 TIP**

On a motion by Ron Rordam, seconded by Richard Ballengee and carried unanimously,

WHEREAS, a final draft of the Transportation Improvement Program has been prepared by the Blacksburg/Christiansburg/Montgomery Area Metropolitan Planning Organization of proposed transportation improvements for fiscal years 2009 thru 2012; and

WHEREAS, inclusion of transportation projects in the Transportation Improvement Program is a condition of federal participation in the funding of that project; and

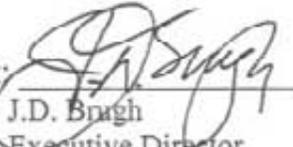
WHEREAS, an approved Transportation Improvement Program is required to be submitted to the Virginia Department of Transportation for inclusion in the State Transportation Improvement Program; and

WHEREAS, the draft Transportation Improvement Program has been available for public comment for 30 days and no comments were received; and

WHEREAS, the Technical Advisory Committee has reviewed this document and has recommended that the Blacksburg/Christiansburg/Montgomery Area Metropolitan Planning Organization approve the Transportation Improvement Program for inclusion in the State Transportation Improvement Program.

THEREFORE, BE IT RESOLVED, that the Blacksburg/Christiansburg/Montgomery Area Metropolitan Planning Organization does hereby approve the 2009-2012 Transportation Improvement Program.

Attest:

  
J.D. Brugh  
Executive Director

***Blacksburg/Christiansburg/Montgomery Area  
Metropolitan Planning Organization***

*June 11, 2009*

**Resolution Approving TIP Amendment 1 for the 2009-12 TIP**

On a motion by Doug Marrs, seconded by Richard Ballengee, and carried unanimously,

WHEREAS, Blacksburg Transit received funding through the American Recovery and Reinvestment Act (ARRA) in the amount of \$4.6 million for capital projects, and

WHEREAS, this additional funding needs to be included in the current approved TIP, and

WHEREAS, the TAC developed and advertised the Amendment for public comment, sent it to the MPO email list, posted it on the MPO website, and sent it to the MPO Interested Parties and Governmental Review Agencies, and

WHEREAS, no comments were received,

WHEREAS, the TAC recommends approval.

NOW, THEREFORE BE IT RESOLVED that the Blacksburg-Christiansburg-Montgomery Area Metropolitan Planning Organization approves Amendment Number 1 to the 2009-12 TIP.

  
\_\_\_\_\_  
J. Dan Brugh, Executive Director

**Blacksburg/Christiansburg/Montgomery Area  
Metropolitan Planning Organization**

755 Roanoke Street, Suite 2I  
Christiansburg, VA 24073

January 11, 2010

To: Michael Gray  
Charles Badger (Attn: Ashley Nusbaum)

RE: 2009-2012 TIP Adjustment #1

Attached is Adjustment #1 to the 2009-2012 TIP. This change is being made in accordance with the MPO TIP Adjustment Agreement dated September 1, 2005.

This adjustment is made to reflect federal stimulus funding, an increase of FTA5307 and a decrease of State assistance for FY10. There is no change in the amount of funding. Also the JARC and local assistance for FY09 have been decreased to reflect a reduction of 10% administrative costs not accounted for previously. This replaces pages 24 & 25 in our current approved TIP.

Should there be questions, or if I can assist further, let me know.

Sincerely,



Dan Brugh  
Executive Director

cc: Policy Board Members

attachments

DB/rlg