

**Transportation Improvement Program
(TIP)
for the
New River Valley Metropolitan Planning
Organization**

Fiscal Years 2018 – 2021

This Transportation Improvement Program was approved as a Final Report by the New River Valley Metropolitan Planning Organization on May 17, 2017. It was prepared for the New River Valley Metropolitan Planning Organization by the Technical Advisory Committee of the New River Valley Metropolitan Planning Organization through a cooperative process involving the Towns of Blacksburg and Christiansburg, the City of Radford, the Counties of Montgomery and Pulaski, Blacksburg Transit, Radford Transit, Pulaski Area Transit, the Virginia Tech - Montgomery Executive Airport Authority, Virginia Tech, Radford University, New River Community College, the Virginia Department of Transportation, the Department of Rail and Public Transportation, the Federal Highway Administration (FHWA), and the Federal Transit Administration (FTA).

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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; Fixing America's Surface Transportation (FAST) Act. Information on the FAST Act can be found on the MPO website or at the following link: www.fhwa.dot.gov/fastact/.

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 New River Valley 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 and Pulaski Counties, the Towns of Blacksburg and Christiansburg, The City of Radford, Virginia Tech, Radford University, New River Community College, the New River Planning District Commission, Blacksburg Transit, Radford Transit, Pulaski Transit, 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 2018-19, through 2021-22. 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 Alternative projects, public transportation improvements, and airport improvements.

Financial Plan

The New River Valley 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 FY2040 Long Range Plan adopted in November 2015 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. 9-15; for Transit/Public Transportation Projects, see pp. 16-21; for Airport/Aviation Projects, see pp. 22-23). The tables compare estimated revenues and expenditures by funding source and indicate 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*
- *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*

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 nonprofit 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 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 discussions 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 a designated recipient of state and federal aid programs for public transit service. BT provides transit service to roughly 65,000 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 full service the hours of operation for routes within the Town of Blacksburg town limits are:

Monday – Thursday 7:00 am to 12:45 am

Friday 7:00 am to 2:45 am

Saturday 9:30 am 2:45 am

Sunday 11:30 am to 11:30 pm

During reduced service* the hours of operation are:

Monday – Friday 7:00 am to 10:30 pm

Saturday 9:30 am 9:15 pm

Sunday 11:30 am to 7:15 pm

*note “reduced service” is during the summer and winter breaks. There is no Sunday service in the 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.

For routes in Blacksburg, Blacksburg Transit maintains an active fleet of 46 full-sized transit buses and 11 Body-On-Chassis (BOC) vehicles. Blacksburg Transit’s fleet is 100 percent accessible. Morning pullout during full service is 34 transit buses and 8 BOC vans. BT provided 3,513,538 passenger trips during fiscal year 2016.

Service for the Town of Christiansburg

Service in the Town of Christiansburg covers all areas within the Town limits. The current routes now include the Go Anywhere! (demand-response), Explorer (deviated fixed route), and Commuter Service routes.

For year round service within Christiansburg, the hours of operation are:

Monday – Thursday 7:00 am to 6:00 pm

Friday 7:00 am to 10:00 pm

Saturday 8:00 am to 11:00 pm

There is no Sunday service.

For the Town of Christiansburg, BT maintains an active fleet of 2 buses and 4 Body on Chassis (BOC) vehicles and all vehicles are accessible.

Blacksburg Transit, in cooperation with Virginia Tech, plans to construct a multi-modal transfer facility (MMTF) to serve the existing and future riders in Blacksburg and the surrounding region. It is envisioned that this facility will be a hub for local and regional transit, creating a centralized transportation center that will promote alternative modes and facilitate non-automobile traffic. The facility will allow future expansion of service to be better served by an expanded and comprehensive transit operation.

The NRV MPO Policy Board has authorized the Town Manager of the Town of Blacksburg on behalf of the NRV MPO to seek federal and state funding to support transit services. The projected program budget 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.

Operating Assistance (Radford Transit)

Radford Transit is a service provided by the City of Radford. Service is contracted through New River Valley Community Services and is a partnership between the City of Radford and Radford University. RT provides service to citizens and students in the City of Radford, Radford University, Fairlawn in Pulaski County, with connecting service to Christiansburg, Blacksburg and the I-81 Park & Ride lot located at exit 118 of Interstate 81. Service is provided year-round with reduced service provided during times when Radford University is not in session.

At times when full service levels are provided typical hours of operation are as follows:

Monday - Wednesday: 7am - 10pm

Thursday - Friday: 7am - 2:40am

Saturday: 10am - 2:40am

Sunday: 6pm - 12am

Reduced service hours (when Radford University is not in session) are as follows:

Monday - Friday: 7am - 7:40pm

Saturday: 10am - 7:40pm

All Radford Transit service is "deviated fixed-route" which enables any person requesting a deviation to do so with 24 hour notice. Buses may deviate from fixed routes up to $\frac{3}{4}$ mile from the nearest bus stop.

Radford Transit's fleet consists of twelve (12) body-on-chassis (Cutaway) style buses, two (2) 29-passenger medium duty body-on-chassis (Cutaway) style buses, and six (6) low floor heavy duty transit buses.

In fiscal year 2016 RT provided about 339,000 passenger trips, a slight drop from the previous year. RT employs approximately 60 full and part-time employees and is a functioning department of New River Valley Community Services within the agency's transit services department. NRVCS also provides Community Transit (CT) service throughout the New River Valley. This service targets human service transportation and provides some service for Radford Transit in the connection with the New River Valley Medical Center.

The NRV MPO Policy Board has authorized the City Manager of the City of Radford on behalf of the NRV MPO to seek federal and state funding to support transit services. The projected program budget 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.

**FEDERAL FUNDING CATEGORIES
FISCAL CONSTRAINT BY YEAR**

Highway Projects
FFY 2018 - 2021

Fund Source	FFY 2018		FFY 2019		FFY 2020		FFY 2021		TOTAL	
	Projected Obligation Authority	Planned Obligation								
Federal										
NHFP	\$229,641	\$229,641	\$229,641	\$229,641	\$7,431,539	\$7,431,539	\$0	\$0	\$7,890,821	\$7,890,821
NHS/NHPP	\$509,852	\$509,852	\$0	\$0	\$3,040,611	\$3,040,611	\$13,293,952	\$13,293,952	\$16,844,415	\$16,844,415
STP/STBG	\$524,996	\$524,996	\$1,381,933	\$1,381,933	\$0	\$0	\$0	\$0	\$1,906,929	\$1,906,929
TAP	\$611,604	\$611,604	\$0	\$0	\$0	\$0	\$0	\$0	\$611,604	\$611,604
Subtotal -- Federal	\$1,876,093	\$1,876,093	\$1,611,574	\$1,611,574	\$10,472,150	\$10,472,150	\$13,293,952	\$13,293,952	\$27,253,769	\$27,253,769
Other										
State Match	\$469,024	\$469,024	\$402,894	\$402,894	\$2,618,035	\$2,618,035	\$3,323,487	\$3,323,487	\$6,813,440	\$6,813,440
Subtotal -- Other	\$469,024	\$469,024	\$402,894	\$402,894	\$2,618,035	\$2,618,035	\$3,323,487	\$3,323,487	\$6,813,440	\$6,813,440
Total	\$2,345,117	\$2,345,117	\$2,014,468	\$2,014,468	\$13,090,185	\$13,090,185	\$16,617,439	\$16,617,439	\$34,067,209	\$34,067,209

Federal - ACC (1)										
NHS/NHPP	\$0	\$0	\$0	\$0	\$0	\$0	\$6,199,168	\$6,199,168	\$6,199,168	\$6,199,168
Subtotal -- Federal - ACC (1)	\$0	\$0	\$0	\$0	\$0	\$0	\$6,199,168	\$6,199,168	\$6,199,168	\$6,199,168

Statewide - Federal (4)										
NHFP	\$2,000,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000
Subtotal -- Statewide - Federal (4)	\$2,000,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000

Maintenance - Federal (5)										
BR/BROS	\$1,753,772	\$1,753,772	\$1,542,166	\$1,542,166	\$1,953,236	\$1,953,236	\$1,961,089	\$1,961,089	\$7,210,263	\$7,210,263
STP/STBG	\$16,242,411	\$16,242,411	\$14,282,643	\$14,282,643	\$18,089,729	\$18,089,729	\$18,162,463	\$18,162,463	\$66,777,246	\$66,777,246
Subtotal -- Maintenance - Federal (5)	\$17,996,183	\$17,996,183	\$15,824,809	\$15,824,809	\$20,042,965	\$20,042,965	\$20,123,552	\$20,123,552	\$73,987,509	\$73,987,509

- (1) ACC -- Advance Construction -- Funding Included in Federal Category based on year of AC Conversion.
- (2) CMAQ/RSTP 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.
- (5) Maintenance Projects - Funding to be obligated for maintenance projects as identified

New River Valley MPO

Primary Projects

UPC NO	99425	SCOPE	Reconstruction w/ Added Capacity			
SYSTEM	Primary	JURISDICTION	Blacksburg	OVERSIGHT	NFO	
PROJECT	RTE 460 - Southgate Dr. Interchange & Connector			ADMIN BY	VDOT	
DESCRIPTION	FROM: 0.156 Mi. W. Int. Southgate Dr. TO: 0.799 Mi. E. Int. Southgate Dr. (0.9556 MI)					
ROUTE/STREET	RTE. 460 BYPASS (0460)			TOTAL COST	\$51,801,923	
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
PE	Federal - STP/SU	\$0	(\$118)	\$0	\$0	\$0
RW AC	Federal - AC	\$0	(\$1,538,344)	\$0	\$0	\$0
CN	Federal - STP/STBG	\$0	\$118	\$0	\$0	\$0

UPC NO	17345	SCOPE	New Construction Roadway			
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	SMRT			TOTAL COST	\$122,370,705	
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
PE	Federal - STP/STBG	\$88,639	\$354,554	\$0	\$0	\$0
PE AC	Federal - AC	\$955,273	\$3,821,090	\$0	\$0	\$0
RW AC	Federal - AC	\$29,974	\$119,894	\$0	\$0	\$0

New River Valley MPO Secondary Projects

UPC NO	107567	SCOPE	Reconstruction w/o Added Capacity			
SYSTEM	Secondary	JURISDICTION	Montgomery County	OVERSIGHT	NFO	
PROJECT	Reconstruct and Surface Treat non-hard surface road.			ADMIN BY	VDOT	
DESCRIPTION	FROM: 1.28Mi N of Bridge over RTE 460 TO: 0.20 Mi. S of RTE 642 (-)					
ROUTE/STREET	YELLOW SULPHUR RD (0643)			TOTAL COST	\$3,530,000	
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
PE AC	Federal - AC	\$0	\$410,000	\$0	\$0	\$0
RW AC	Federal - AC	\$0	\$70,000	\$0	\$0	\$0
CN AC	Federal - AC	\$0	\$0	\$0	\$3,050,000	\$0

New River Valley MPO Project Groupings

GROUPING		Construction : Bridge Rehabilitation/Replacement/Reconstruction				
ROUTE/STREET					TOTAL COST	\$53,391,179
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
RW	Federal - NHFP	\$114,821	\$229,641	\$229,641	\$0	\$0
CN	Federal - AC CONVERSION	\$1,549,792	\$0	\$0	\$0	\$6,199,168
	Federal - NHFP	\$1,857,885	\$0	\$0	\$7,431,539	\$0
	Federal - NHS/NHPP	\$3,381,963	\$0	\$0	\$3,015,611	\$10,512,240
CN TOTAL		\$6,789,640	\$0	\$0	\$10,447,150	\$16,711,408
CN AC	Federal - AC	\$2,655,065	\$0	\$0	\$17,557,234	\$0

GROUPING		Construction : Rail				
ROUTE/STREET					TOTAL COST	\$570,234
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
		\$0	\$0	\$0	\$0	\$0

GROUPING		Construction : Safety/ITS/Operational Improvements				
ROUTE/STREET					TOTAL COST	\$48,344,421
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
PE	Federal - NHS/NHPP	\$127,463	\$509,852	\$0	\$0	\$0
RW	Federal - NHS/NHPP	\$6,250	\$0	\$0	\$25,000	\$0
	Federal - STP/STBG	\$1,875	\$7,500	\$0	\$0	\$0
RW TOTAL		\$8,125	\$7,500	\$0	\$25,000	\$0
CN	Federal - NHS/NHPP	\$695,428	\$0	\$0	\$0	\$2,781,712
	Federal - STP/STBG	\$386,219	\$162,942	\$1,381,933	\$0	\$0
CN TOTAL		\$1,081,647	\$162,942	\$1,381,933	\$0	\$2,781,712
CN AC	Federal - AC	\$17,061	\$0	\$153,548	\$0	\$1

GROUPING		Construction : Transportation Enhancement/Byway/Non-Traditional				
ROUTE/STREET					TOTAL COST	\$10,817,220
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
CN	Federal - TAP/F	\$152,901	\$611,604	\$0	\$0	\$0
CN AC	Federal - AC	\$38,225	\$152,901	\$0	\$0	\$0

GROUPING		Maintenance : Preventive Maintenance and System Preservation				
PROGRAM NOTE		Funding identified to be obligated districtwide as projects are identified.				
ROUTE/STREET					TOTAL COST	
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
CN	Federal - STP/STBG	\$0	\$7,830,599	\$6,885,779	\$8,721,206	\$8,756,272

GROUPING		Maintenance : Preventive Maintenance for Bridges				
PROGRAM NOTE		Funding identified to be obligated districtwide as projects are identified.				
ROUTE/STREET					TOTAL COST	
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
CN	Federal - BR	\$0	\$1,753,772	\$1,542,166	\$1,953,236	\$1,961,089
	Federal - STP/STBG	\$0	\$5,452,802	\$4,794,881	\$6,072,972	\$6,097,390
CN TOTAL		\$0	\$7,206,574	\$6,337,047	\$8,026,208	\$8,058,479

GROUPING		Maintenance : Traffic and Safety Operations				
PROGRAM NOTE		Funding identified to be obligated districtwide as projects are identified.				
ROUTE/STREET					TOTAL COST	
	FUND SOURCE	MATCH	FY18	FY19	FY20	FY21
CN	Federal - STP/STBG	\$0	\$2,959,010	\$2,601,983	\$3,295,551	\$3,308,801

Appendix A

Projects by Grouping

New River Valley MPO

Construction: Bridge Rehabilitation/Replacement/Reconstruction

	System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Interstate	93074	Christiansburg	0081		\$24,343,147
			#SGR RTE. 81 - APPROACHES AND BRIDGES OVER ROUTE 8 FROM: Christiansburg SCL TO: 0.510 Mile North of Christiansburg SCL (0.5100 MI)		
Interstate	93075	Montgomery County	0081		\$10,564,435
			#SGR RTE. 81 - Mont. Co. Approaches to I-81 bridges over Rou FROM: 0.381 Mile South of Christiansburg SCL TO: Christiansburg SCL (0.3810 MI)		
Miscellaneous	T19049	Salem District-wide	0000		\$0
			BRIDGE REHABILITATION/REPLACEMENT		
Primary	50030	Montgomery County	0114		\$15,160,707
			RTE 114 - WBL BRIDGE REPLACEMENT OVER THE NEW RIVER FROM: 0.21 MILE EAST MONTGOMERY-PULASKI CO LINE TO: MONTGOMERY-PULASKI CO LINE		
Secondary	90087	Montgomery County		CANNERY ROAD (0773)	\$3,322,890
			RTE. 773 OVER ROANOKE RIVER (STR. 12339) - BRDG REPLACEMENT FROM: Intersection Rte. 626 TO: 0.089 miles north intersection Rte. 626 (0.0890 MI)		
Construction : Bridge Rehabilitation/Replacement/Reconstruction Total					\$53,391,179

Construction : Rail

	System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Miscellaneous	T19041	Salem District-wide	0000		\$0
			CN: RAIL		
Urban	105608	Christiansburg		CHRISMAN MILL RD (0000)	\$570,234
			Chrisman Mill Rd -Realign N Side of Road at Crossing FROM: 1.18 Mi. E of Rt. 114 TO: at NSRR Crossing #469436A		
Construction: Rail Total					\$570,234

Construction: Safety/ITS/Operational Improvements

	System	UPC	Jurisdiction / Name / Description	Street (Route)	Estimate
Interstate	107802	Statewide	9999		\$500,000
			Incident Management Emergency Evacuation and Detour Plans FROM: Various TO: Various		
Miscellaneous	T19045	Salem District-wide	0000		\$0
			CN: SAFETY/ITS/OPERATIONAL/IMPROVEMENTS		
Miscellaneous	81419	Salem District-wide	0000		\$1,544,827
			DISTRICTWIDE ROADWAY SAFETY ASSESSMENT -SALEM FY07 HSIP PROJECT		
Miscellaneous	93174	Statewide	0000		\$1,104,740
			Safety Analyst Project FROM: various TO: various		

New River Valley MPO

Construction : Safety/ITS/Operational Improvements

	System	UPC	Jurisdiction / Name /Description	Street(Route)	Estimate
Miscellaneous	105481	Statewide	0000		\$1,400,000
			Implement iPeMS (Iteris Performance Measurement System) FROM: various TO: various		
Miscellaneous	86665	Salem District-wide	9999		\$0
			RTE. 000 - HSIP District-wide High Risk Rural Roads Salem Salem District High Risk Rural Roads Safety Improvements		
Primary	105303	Montgomery County	PEPPERS FERRY RD (0000)		\$235,000
			MONTGOMERY COUNTY - SRTS - BELVIEW ES - HIGH VIS CROSSING FROM: JADE DR TO: PRICES FORK RD (0.1000 MI)		
Primary	108900	Blacksburg	PANDAPAS POND ROAD (0460)		\$3,316,565
			#HB2.FY17 N Main Intersection Improvements at Rte. 460 Bypass FROM: North of Coal Bank Hollow Rd TO: South of Farmingdale Ln (0.6000 MI)		
Primary	108909	Christiansburg	US 460 (0460)		\$2,124,395
			#HB2.FY17 Route 460 at Franklin Street EB Ramp Construction FROM: Franklin Street TO: US 460 Ramp		
Secondary	106701	Salem District-wide	9999		\$1,785,481
			HRRR - Safety Improvements FROM: Various TO: Various		
Urban	100839	Blacksburg	RESEARCH CENTER DRIVE (0460)		\$3,194,844
			Int. Improvements at Route 460 Ramps and Research Center Dr. FROM: Int. of South Main Street TO: 0.29 mi. North of Int. South Main Street (0.2892 MI)		
Urban	104387	Christiansburg	N. FRANKLIN / CAMBRIA (0460)		\$8,489,534
			#HB2.FY17 Intersection Improvement - N. Franklin St/Cambria St FROM: Cambria St. TO: Independence Blvd (0.6000 MI)		
Urban	8746	Christiansburg	PEPPERS FERRY RD (0114)		\$24,649,035
			RTE 114 - PEPPERS FERRY ROAD - WIDEN TO 4 LANES FROM: ROUTE 460 TO: 0.789 Km East of WCL (1.5309 KM)		
Construction: Safety/ITS/Operational Improvements Total					\$48,344,421

Construction: Transportation Enhancement/Byway/Non-Traditional

	System	UPC	Jurisdiction / Name / Description	Street (Route)	Estimate
Enhancement	103637	Christiansburg	EAST MAIN ST & FRANKLIN ST (0000)		\$1,808,017
			Christiansburg Downtown Streetscaping, Phase C503 (Ph1B) FROM: Roanoke Street TO: Franklin Street		
Enhancement	104770	Montgomery County	HUCKLEBERRY TRAIL (0000)		\$468,000
			Huckleberry Trail - Phase 2D FROM: Providence Boulevard TO: Food Lion Shopping Plaza (0.5400 MI)		
Enhancement	108360	Montgomery County	0000		\$839,505
			Huckleberry Trail - Phase 3 FROM: Future Peppers Ferry Rd Connector TO: Independence Blvd		
Enhancement	103920	Blacksburg	EN01		\$18,000
			Virginia Tech, Hokie Bikeways C505 fence Waiting Financial Closure		

New River Valley MPO**Construction : Transportation Enhancement/Byway/Non-Traditional**

	System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Enhancement	94264	Montgomery County	EN09 Huckleberry Trail Extension FROM: Route 114 - Peppers Ferry Road (at Wal-Mart parking lot) TO: Farm View Road Extension (at Home Depot parking lot)		\$318,826
Enhancement	103896	Montgomery County	HUCKLEBERRY TRAIL (EN09) Huckleberry Trail - Phase 2B FROM: Farm View Road Extension (at Home Depot parking lot) TO: Cambria St (1.0000 MI) Waiting Financial Closure		\$174,461
Miscellaneous	T19040	Salem District-wide	0000 CN: TRANSPORTATION ENHANCEMENT/BYWAY/OTHER NON-TRADITIONAL		\$0
Primary	105518	Christiansburg	FALLING BRANCH PARK AND RIDE (9999) Relocation of Falling Branch Park and Ride. FROM: Int. Route 460 Business and Hubbell Drive TO: 0.052 Mi. E. Alma Street Int. with Hubbell Drive (0.1000 MI)		\$5,214,882
Urban	56407	Christiansburg	EN00 TOWN OF CHRISTIANSBURG - STREETSCAPING AND PEDESTRIAN SAFETY MEASURES WITHING THE CENTRAL BUSINESS DISTRICT		\$1,975,529
Construction: Transportation Enhancement/Byway/Non-Traditional Total					\$10,817,220

Maintenance: Preventive Maintenance and System Preservation

	System	UPC	Jurisdiction / Name / Description	Street (Route)	Estimate
Miscellaneous	T14722	Salem District-wide	0000 STIP-MN Salem: Preventive MN and System Preservation		\$0
Maintenance: Preventive Maintenance and System Preservation Total					\$0

Maintenance: Preventive Maintenance for Bridges

	System	UPC	Jurisdiction / Name / Description	Street (Route)	Estimate
Miscellaneous	T14721	Salem District-wide	0000 STIP-MN Salem: Preventive MN for Bridges		\$0
Maintenance: Preventive Maintenance for Bridges Total					\$0

Maintenance: Traffic and Safety Operations

	System	UPC	Jurisdiction / Name / Description	Street (Route)	Estimate
Miscellaneous	T14720	Salem District-wide	0000 STIP-MN Salem: Traffic and Safety Operations		\$0
Maintenance: Traffic and Safety Operations Total					\$0

New River Valley MPO Total**\$113,123,054**

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021		
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION								
STIP ID:	BBT0001	Title: Operating Assistance			Recipient: Blacksburg Transit			
FTA 5307	1,610	1,727	1,775	1,841	1,910	FTA 5307	7,253	Blacksburg Transit
State	1,815	1,865	1,844	1,913	1,985	State	7,607	Blacksburg Transit
Local	3,595	4,393	4,852	5,159	5,480	Local	19,884	Blacksburg Transit
Revenues	215	211	264	272	280	Revenues	1,027	Blacksburg Transit
Year Total:	7,235	8,196	8,735	9,185	9,655	Total Funds:	35,771	Blacksburg Transit
Description:								
STIP ID:	BBT0002	Title: Replacement Rolling Stock			Recipient: Blacksburg Transit			
Flexible STP		357	1,597	1,860	7,439	Flexible STP	11,253	Blacksburg Transit
State		45	200	233	930	State	1,408	Blacksburg Transit
Local		45	200	233	930	Local	1,408	Blacksburg Transit
Year Total:	-	447	1,997	2,326	9,299	Total Funds:	14,069	Blacksburg Transit
Description:								
STIP ID:	BBT0010	Title: Eng Design /Construction Multi-Modal Transfer Facility			Recipient: Blacksburg Transit			
Flexible STP	10,914					Flexible STP		Blacksburg Transit
State	6,627					State		Blacksburg Transit
Local	1,949					Local		Blacksburg Transit
Year Total:	19,490		-	-	-	Total Funds:		Blacksburg Transit
Description:								
STIP ID:	BBT0016	Title: Expansion Rolling Stock			Recipient: Blacksburg Transit			
Flexible STP		798	838	879	923	Flexible STP	3,438	Blacksburg Transit
State		100	105	110	115	State	430	Blacksburg Transit
Local		100	105	110	115	Local	430	Blacksburg Transit
Year Total:	-	998	1,048	1,099	1,153	Total Funds:	4,298	Blacksburg Transit
Description:								
STIP ID:	BBT0017	Title: Passenger Shelters			Recipient: Blacksburg Transit			
Flexible STP		48	45	46	33	Flexible STP	172	Blacksburg Transit
State		10	9	9	4	State	32	Blacksburg Transit
Local		2	2	2	4	Local	10	Blacksburg Transit
Year Total:	-	60	56	57	41	Total Funds:	214	Blacksburg Transit

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021		
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION								
Description:								
STIP ID:	BBT0020	Title: ADP Hardware			Recipient: Blacksburg Transit			
Flexible STP		647	91	695	161	Flexible STP	1,594	Blacksburg Transit
State		81	11	87	20	State	199	Blacksburg Transit
Local		81	11	87	20	Local	199	Blacksburg Transit
Year Total:	-	809	113	869	201	Total Funds:	1,992	Blacksburg Transit
Description:								
STIP ID:	BBT0021	Title: ADP Software			Recipient: Blacksburg Transit			
Flexible STP		72	440			Flexible STP	512	Blacksburg Transit
State		9	55			State	64	Blacksburg Transit
Local		9	55			Local	64	Blacksburg Transit
Year Total:	-	90	550	-	-	Total Funds:	640	Blacksburg Transit
Description:								
STIP ID:	BBT0023	Title: Support Vehicles			Recipient: Blacksburg Transit			
Flexible STP			200	43	154	Flexible STP	397	Blacksburg Transit
State			25	5	19	State	49	Blacksburg Transit
Local			25	5	19	Local	49	Blacksburg Transit
Year Total:	-	-	250	53	192	Total Funds:	495	Blacksburg Transit
Description:								
STIP ID:	BBT0028	Title: Radios			Recipient: Blacksburg Transit			
Flexible STP		3	12	19	10	Flexible STP	44	Blacksburg Transit
State		1	2	2	1	State	6	Blacksburg Transit
Local		1	2	2	1	Local	6	Blacksburg Transit
Year Total:	-	5	16	23	12	Total Funds:	56	Blacksburg Transit
Description:								
STIP ID:	BBT0029	Title: Shop Equipment			Recipient: Blacksburg Transit			
Flexible STP		220	489	191	198	Flexible STP	1,098	Blacksburg Transit
State		27	61	24	24	State	136	Blacksburg Transit
Local		27	61	24	24	Local	136	Blacksburg Transit
Year Total:	-	274	611	239	246	Total Funds:	1,370	Blacksburg Transit
Description:								
STIP ID:	BBT0035	Title: Fleet Rebranding - Graphics			Recipient: Blacksburg Transit			
Flexible STP		504				Flexible STP	504	Blacksburg Transit
State		63				State	63	Blacksburg Transit
Local		63				Local	63	Blacksburg Transit
Year Total:	-	630	-	-	-	Total Funds:	630	Blacksburg Transit

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021		
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION								
Description:								
STIP ID:	BBT0036	Title: NRV Bikeshare			Recipient: Blacksburg Transit			
Flexible STP		-				Flexible STP	-	Blacksburg Transit
State		200				State	200	Blacksburg Transit
Local		50				Local	50	Blacksburg Transit
Year Total:	-	250	-	-	-	Total Funds:	250	Blacksburg Transit

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021		
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION								
Description:								
STIP ID:	CRAD001	Title: Operating Assistance			Recipient: City of Radford			
FTA 5307	428	458	428	428	428	FTA 5307	1,742	City of Radford
FTA 5311						FTA 5311	-	City of Radford
State	344	322	344	344	344	State	1,354	City of Radford
Local	658	658	658	658	658	Local	2,632	City of Radford
Revenues	34	34	34	34	34	Revenues	136	City of Radford
Year Total:	1,464	1,472	1,464	1,464	1,464	Total Funds:	5,864	City of Radford
Description:								
STIP ID:	CRAD004	Title: Replacement Rolling Stock			Recipient: City of Radford			
Flexible STP				520	312	Flexible STP	832	City of Radford
State				104	62	State	166	City of Radford
Local				26	16	Local	42	City of Radford
Year Total:	-	-	-	650	390	Total Funds:	1,040	City of Radford
Description:								
STIP ID:	CRAD005	Title: Purchase Support Vehicles			Recipient: City of Radford			
Flexible STP		36				Flexible STP	36	City of Radford
State		5				State	5	City of Radford
Local		4				Local	4	City of Radford
Year Total:	-	45	-	-	-	Total Funds:	45	City of Radford
Description:								
STIP ID:	CRAD006	Title: Construction of Facilities			Recipient: City of Radford			
Flexible STP			-		120	Flexible STP	120	City of Radford
State			-		24	State	24	City of Radford
Local			-		6	Local	6	City of Radford
Year Total:	-	-	-	-	150	Total Funds:	150	City of Radford
Description:								
STIP ID:	CRAD007	Title: Purchase Route Signage			Recipient: City of Radford			
Flexible STP			5			Flexible STP	5	City of Radford
State			1			State	1	City of Radford
Local			1			Local	1	City of Radford
Year Total:	-	-	7	-	-	Total Funds:	7	City of Radford

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021		
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION								
Description:								
STIP ID:	CRAD008	Title: Purchase Shop Equipment			Recipient: City of Radford			
Flexible STP		120				Flexible STP	120	City of Radford
State		15				State	15	City of Radford
Local		15				Local	15	City of Radford
Year Total:	-	150	-	-	-	Total Funds:	150	City of Radford
Description:								
STIP ID:	CRAD010	Title: Purchase Expansion Vehicles			Recipient: City of Radford			
Flexible STP			420			Flexible STP	420	City of Radford
State			84			State	84	City of Radford
Local			21			Local	21	City of Radford
Year Total:	-	-	525	-	-	Total Funds:	525	City of Radford
Description:								
STIP ID:	CRAD011	Title: Purchase Bus Shelters			Recipient: City of Radford			
Flexible STP			160			Flexible STP	160	City of Radford
State			32			State	32	City of Radford
Local			8			Local	8	City of Radford
Year Total:	-	-	200	-	-	Total Funds:	200	City of Radford

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021		
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION								
Description:								
STIP ID:	NRVC001	Title: Paratransit Vehicles			Recipient: New River Valley Community Services			
FTA 5310		116	128	128	160	FTA 5310	532	New River Valley CC
State		-	-	-	-	State	-	New River Valley CC
Local		29	32	32	40	Local	133	New River Valley CC
Year Total:	-	145	160	160	200	Total Funds:	665	New River Valley CC

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021	
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION							
Description:							
Blacksburg Transit	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021	
FTA 5307	1,610	1,710	1,775	1,841	1,910	FTA 5307	7,253
FTA 5309	-	-	-	-	-	FTA 5309	-
FTA 5310	-	-	-	-	-	FTA 5310	-
FTA 5311	-	-	-	-	-	FTA 5311	-
FTA 5314	-	-	-	-	-	FTA 5314	-
FTA 5337	-	-	-	-	-	FTA 5337	-
FTA 5339	-	-	-	-	-	FTA 5339	-
FTA ADTAP	-	-	-	-	-	FTA ADTAP	-
FTA DPF	-	-	-	-	-	FTA DPF	-
FTA TIGER	-	-	-	-	-	FTA TIGER	-
FBD	-	-	-	-	-	FBD	-
Flexible STP	10,914	2,649	3,712	3,733	8,918	Flexible STP	19,012
CMAQ	-	-	-	-	-	CMAQ	-
RSTP	-	-	-	-	-	RSTP	-
FHWA TAP	-	-	-	-	-	FHWA TAP	-
TIFIA	-	-	-	-	-	TIFIA	-
Other Federal	-	-	-	-	-	Other Federal	-
State	8,442	2,361	2,312	2,383	3,098	State	10,154
Local	5,544	4,761	5,313	5,622	6,593	Local	22,289
Revenues	215	211	264	272	280	Revenues	1,027
Totals	26,725	11,709	13,376	13,851	20,799		59,735

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021	
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION							
Description:							
City of Radford	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021	
FTA 5307	428	458	428	428	428	FTA 5307	1,742
FTA 5309	-	-	-	-	-	FTA 5309	-
FTA 5310	-	-	-	-	-	FTA 5310	-
FTA 5311	-	-	-	-	-	FTA 5311	-
FTA 5314	-	-	-	-	-	FTA 5314	-
FTA 5337	-	-	-	-	-	FTA 5337	-
FTA 5339	-	-	-	-	-	FTA 5339	-
FTA ADTAP	-	-	-	-	-	FTA ADTAP	-
FTA DPF	-	-	-	-	-	FTA DPF	-
FTA TIGER	-	-	-	-	-	FTA TIGER	-
FBD	-	-	-	-	-	FBD	-
Flexible STP	-	156	585	520	432	Flexible STP	1,693
CMAQ	-	-	-	-	-	CMAQ	-
RSTP	-	-	-	-	-	RSTP	-
FHWA TAP	-	-	-	-	-	FHWA TAP	-
TIFIA	-	-	-	-	-	TIFIA	-
Other Federal	-	-	-	-	-	Other Federal	-
State	344	342	461	448	430	State	1,681
Local	658	677	688	684	680	Local	2,729
Revenues	34	34	34	34	34	Revenues	136
Totals	1,464	1,667	2,196	2,114	2,004		7,981

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021	
NEW RIVER VALLEY METROPOLITAN PLANNING ORGANIZATION							
Description:							
	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021	
New River Valley Community Services							
FTA 5307	-	-	-	-	-	FTA 5307	-
FTA 5309	-	-	-	-	-	FTA 5309	-
FTA 5310	-	116	128	128	160	FTA 5310	532
FTA 5311	-	-	-	-	-	FTA 5311	-
FTA 5314	-	-	-	-	-	FTA 5314	-
FTA 5337	-	-	-	-	-	FTA 5337	-
FTA 5339	-	-	-	-	-	FTA 5339	-
FTA ADTAP	-	-	-	-	-	FTA ADTAP	-
FTA DPF	-	-	-	-	-	FTA DPF	-
FTA TIGER	-	-	-	-	-	FTA TIGER	-
FBD	-	-	-	-	-	FBD	-
Flexible STP	-	-	-	-	-	Flexible STP	-
CMAQ	-	-	-	-	-	CMAQ	-
RSTP	-	-	-	-	-	RSTP	-
FHWA TAP	-	-	-	-	-	FHWA TAP	-
TIFIA	-	-	-	-	-	TIFIA	-
Other Federal	-	-	-	-	-	Other Federal	-
State	-	-	-	-	-	State	-
Local	-	29	32	32	40	Local	133
Revenues	-	-	-	-	-	Revenues	-
<i>Totals</i>	-	145	160	160	200		665

Virginia Tech/Montgomery Executive Airport

Project Narrative

Currently, VTMEA has completed Phase I of a three phase project scheduled over a three year period. This project consists of extending the runway from an existing 4,500 foot runway to a 5,500 foot runway. Because of the extension, the airport is required to relocate Tech Center Drive, as secondary road that provides direct access to the Corporate Research Center as well as the Huckleberry Trail which is a highly used trail system connecting Christiansburg and Blacksburg.

Purpose:

The extension of the runway to accommodate larger corporate aircraft is an infrastructure development tool that will enhance regional economic development by opening up the region to distant markets. Additionally, the airport expansion will provide a larger platform for other industries wishing to locate in the New River Valley.

The phasing of the runway extension will bring over 15M in construction costs to the area. The cost associated with the project are grant funded through both the National Transportation Trust Fund; a self-funding mechanism and the Virginia Transportation Trust Fund. The grant shares are 90% federal, 8% state and 2% airport accordingly.

Additional projects consist of a state and airport project to develop a corporate hangar campus. This project has a total cost of 1.6M with the airports share of \$330,000. This improvement will allow the larger corporate aircraft storage space creating a home fleet.

In conjunction with the VDOT interchange project along the route 460 bypass, these projects co-mingle forming a multi-mode development enhancement.

The Airport Capital Improvement Funds is attached as an exhibit.

The Airport Economic Impact Report is attached as an exhibit.

Department of Aviation Commonwealth of Virginia

Project List Report

Years: 2018, 2019, 2020, and 2021

Project Categories: All

Project Types: CAF

Project Statuses: CP

FAA State Local VDOT Total

Virginia Tech-Montgomery Executive Airport

Year	Project Name	FAA	State	Local	VDOT	Total
2018	Land Acquisition Phase 1					\$1,170,698.00
	2018 Subtotal					\$1,170,698.00
2019	Land Acquisition Phase 2					\$1,150,000.00
	2019 Subtotal					\$1,150,000.00

2020		
Land Acquisition Phase 3		\$2,822,380.00
		<hr/> <hr/>
2020 Subtotal		\$2,822,380.00
		<hr/> <hr/>
2021		
Land Acquisition Phase 4		\$2,091,922.00
		<hr/> <hr/>
2021 Subtotal		\$2,091,922.00
		<hr/> <hr/>
Virginia Tech-Montgomery Executive Airport Subtotal		\$7,235,000.00
		<hr/> <hr/>
Total		\$7,235,000.00