



SUPPORTED BY **PlanRVA**
THE REGIONAL
COMMISSION

UNIFIED PLANNING WORK PROGRAM

FISCAL YEAR 2022

July 1, 2021 – June 30, 2022

Richmond Regional Transportation Planning Organization

Amended March 3, 2022

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INTRODUCTION

The Unified Planning Work Program (UPWP)

The purpose of the UPWP is to promote a unified regional approach to transportation planning in order to achieve regional goals and objectives. Additionally, the UPWP serves to document proposed expenditures of Federal, State and local transportation planning funds, and provides a management tool for RRTPO and the funding agencies in scheduling major transportation planning activities, milestones, and products.

The UPWP is required of all metropolitan planning organizations (MPOs) as a condition to receiving federal funds. RRTPO is the federally designated MPO for the Richmond region and consists of the member governments as shown in Figure 1.

The goal of the UPWP is a well-functioning process and program that meets the federal and state transportation planning requirements. This effort involves the public, interested parties, and the RRTPO in developing a multi-modal, continuing, comprehensive, and cooperative transportation planning and programming process. A requirement of Section 450.308(c) of the Metropolitan Planning regulations is that Transportation Management Area (TMA) designated MPOs shall include a discussion of the planning priorities facing the metropolitan planning area. Further discussion of these priorities is provided in the various work tasks.

The UPWP is the RRTPO's budget and work program for the upcoming fiscal year which begins on July 1, 2021 and concludes on June 30, 2022. The UPWP addresses federal/state planning and programming requirements, addresses regional transportation planning issues and needs, and includes activities required for the state and region to remain eligible for federal-aid highway and transit funds. The funding sources supporting the RRTPO program activities come from federal, state and local funds.

PlanRVA and the RRTPO Planning Process

The FY22 UPWP continues to be organized with four core program areas: Program Management, Transportation Planning, Data and Analysis, and Financial Programs. Program Management is the policy, management and operations platform that supports the remaining three program areas. The program objectives, work elements, responsibilities, budgets, products and schedules are included within each core program area. The appendices consolidate information necessary to understanding and implementing the RRTPO program requirements.

There are work tasks that are included primarily as "project monitoring"; which means the RRTPO is a participating partner in the effort, but the designated lead role is undertaken by another agency or organization such as the Greater Richmond Transit Company (GRTC), DRPT or VDOT. FTA requires that projects and studies receiving FTA funding be included in the

UPWP; this is not a requirement shared by FHWA. All partners are provided the opportunity to incorporate project updates into the work task which those organizations or agencies lead.

The two primary funding sources supporting the work program are FHWA/PL funds and FTA Section 5303 funds. These funds are matched by state and local sources on an 80% federal (FHWA and FTA) 10% state (VDOT and DRPT), and 10% local (PlanRVA) basis. Additional funding includes FHWA/RSTP which are matched by state sources with 80% federal funding (FHWA) and 20% state funding (VDOT). The FHWA/PL funding allocations for FY 20 from VDOT and the FTA 5303 funding allocations from DRPT have been received.

Work Program Priorities

The RRTPO-approved FY22 UPWP priorities focus on fully addressing the recommendations from the August 2017 federal certification report, completing existing work tasks that span from FY21 into FY22, and advancing new initiatives. These priorities are outlined below.

Federal Certification Review Comments, FAST Act and Other USDOT Priorities

- Continue to address recommendations and corrective actions from the August 2017 certification report, including a simpler schedule and results oriented approach to the UPWP with clear indications of responsible parties for work tasks - **Complete**
- Execution of revised agreements on statewide planning and MPO Coordination between the RRTPO, the Tri-Cities MPO and partners - **Complete**
- Incorporate as appropriate, USDOT Every Day Counts analytical tools, public engagement strategies, planning and design considerations, and operational improvements into work program tasks and elements - **In Process**

Continuation of Existing Work Efforts

- Continue development of *ConnectRVA 2045*, the Long-Range Transportation Plan for the Richmond Region
- Continue to develop the Regional Travel Demand Model to support transportation planning, research and analysis, including small area, sub-area, corridor and scenario planning tasks
- Continue the regional conversation on transit and how to best meet the needs of the region
- Continue the regional conversation on developing bicycle and pedestrian facilities with local, regional, state and national partners.

FY22 Focal Areas

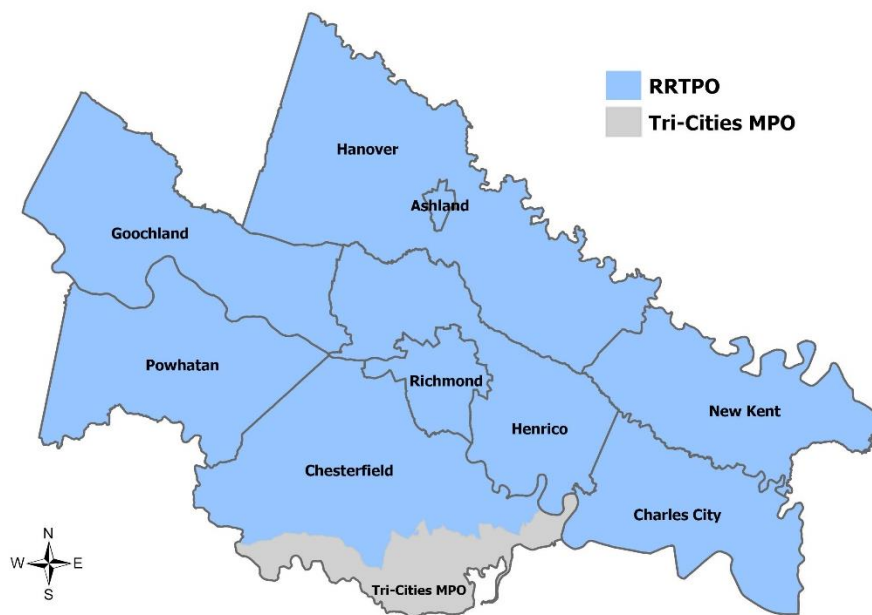
- Development of a new Long Range Transportation Plan, ConnectRVA 2045, with emphasis on equity, performance measures, and increased opportunity for public engagement.
- Begin engagement of members and the community in developing a comprehensive scenario planning approach for future regional growth and development
- Be a resource for the newly-created Central Virginia Transportation Authority. Staff will continue to collaborate with GRTC to develop an ongoing plan for regional public transportation as outlined in HB 1541. Staff will develop a prioritization process linked to *ConnectRVA 2045* that helps CVTA members identify regional priorities.
- Provide a forum to discuss active transportation and its benefit to the region, including the Fall Line, multi-purpose regional trail development and connections between home, work, and recreation.

The UPWP fulfills the federal requirement under 23 CFR §450.308:

(b) An MPO shall document metropolitan transportation planning activities performed with funds provided under title 23 U.S.C. and title 49 U.S.C. Chapter 53 in a unified planning work program (UPWP)...

(c) . . . each MPO, in cooperation with the State(s) and public transportation operator(s), shall develop a UPWP that includes a discussion of the planning priorities facing the MPA. The UPWP shall identify work proposed for the next 1- or 2-year period by major activity and task (including activities that address the planning factors in §450.306(b)), in sufficient detail to indicate who (e.g., MPO, State, public transportation operator, local government, or consultant) will perform the work, the schedule for completing the work, the resulting products, the proposed funding by activity/task, and a summary of the total amounts and sources of Federal and matching funds.

Figure 1. Richmond Regional Transportation Planning Organization (October 2021)



Metropolitan Planning Factors and RRTPO's FY 2022 Priorities

The 2015 *Fixing America's Surface Transportation Act (FASTACT)* continues the principles of integrated planning first set forth in 1992 with the Intermodal Surface Transportation Efficiency Act

Under the *FAST Act*, MPOs must consider ten (10) planning factors when developing transportation plans and programs.

1. Support the economic vitality of the Metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increase the safety of the transportation system for motorized and non-motorized users;
3. Increase the security of the transportation system for motorized and non-motorized users;
4. Increase the accessibility and mobility of people and freight;
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promote efficient system management and operation;
8. Emphasize the preservation of the existing transportation system
9. Improve the resiliency and reliability of the transportation system and reduce or

mitigate storm water impacts of surface transportation; and

10. Enhance travel and tourism.

Development of this FY 2022 UPWP has been guided by regulations requiring the RRTPO planning process to consider and implement projects, strategies, and services that address these ten Metropolitan planning factors. Each of these planning factors affects nearly every task; the degree of consideration and analysis is based on the scale and complexity of many issues, including transportation system development, land use, employment, economic development, human and natural environment, and housing and community development (23 CFR 450.306(b)). The matrix on page 9 summarizes the applicability of each Metropolitan planning factor to the 2022 work program tasks.

FAST Act Implementation

RRTPO implementation efforts in 2021-2022 will focus on (1) improving public engagement; (2) developing performance measures; and (3) a myriad of activities that will inform the update of the long-range transportation plan, *ConnectRVA 2045*.

Regional Models of Cooperation

Regional Models of Cooperation provide a framework and process for States and MPOs to develop multi-jurisdictional transportation plans and agreements to improve communication, collaboration, policy implementation, use of technology and performance management across agency boundaries. Multi-jurisdictional planning combines many perspectives to improve coordination and implement effective planning across wide geographic areas. Regional models of cooperation offer a competitive advantage by improving decision-making and saving time and money through shared resources. Examples include freight and congestion management coordination.

Ladders of Opportunity

Work—Infrastructure investment creates jobs and paves the way for business, particularly small and disadvantaged business enterprises

Connect—A multimodal transportation system provides Americans with safe, reliable, and affordable connections to employment, education, healthcare, and other essential services

Revitalize—Transportation infrastructure can lift up neighborhoods and regions by attracting new opportunities, jobs, and housing

FISCAL YEAR 2021 ACCOMPLISHMENTS

The following summarizes work produced and planning activities performed during FY 2021 to implement the approved RRTPO planning projects and consultant tasks listed below. Ongoing work program tasks, such as routine project administration, are not included in this summary and only major accomplishments are listed.

Task 7100 Program Support & Administration

- 7110 Continued development and outreach tools using the new agency website with emphasis on public engagement and transparency. Strengthened and grew committee participation opportunities through development of a fully-virtual meeting platform and archiving process through Zoom, YouTube, and integration of the agency website for meeting data. Increased committees served by staff from four to twelve over the year. Continued strong staffing commitment to the Central Virginia Transportation Authority and served as lead staff for the new organization. Supported the CVTA Technical Committee and CVTA Finance Committee as they developed regional priorities, authority budget, financial management structure, revenue policies and procedures, and other key components of the fledgling organization. Supported the CVTA Regional Priorities Subcommittee.
- 7120 Maintained the FY21 UPWP and developed amendments as needed to account for new emphasis on work tasks and priorities. Consulted with member governments and partners to ensure work was being performed as needed.

Task 7200 General Development & Comprehensive Planning

- 7210 Continued evolution of the Public Engagement Plan to allow RRTPO to be flexible in how stakeholders can participate in the planning practice with emphasis on virtual engagement during the COVID-19 pandemic. Strengthened the role of CTAC and its ability to advise other RRTPO committees and the general public. Shifted approach to public engagement on www.planva.org and fully embraced the use of ESRI Storymaps to communicate project work. Supported Senior Connections and other human service transportation providers to better engage their constituents.
- 7220 Worked with regional partners to provide resources and support in the development of the Central Virginia Transportation Authority. Participated virtually in professional organizations and societies including the American Planning Association, National Association of Regional Councils, Association of MPOs, Consortium for Scenario Planning, Intelligent Transportation Society of Virginia, and others to advance staff engagement and knowledge of best practices. Worked with VDOT and partner organizations to research and advance understanding of Connected and Autonomous Vehicles and their impact on regional travel. Partnered on STARS studies, IMR reports, and arterial management plans.
- 7230 Developed a process to unify consultant contracting and RFP procedures. Worked to provide staff with tools and education for remote work and coordination with partners and constituents.

Task 7300 Long-Range Transportation Planning

- 7310 Continued evolution of the LRTP process to achieve adoption by October 2021. Guided the Advisory Committee (AC) to oversee the development of the plan, ConnectRVA 2045. Finalized process for project prioritization and developed metrics and performance measures. Worked with consultant to develop unique accessibility and land use tools to integrate into the regional travel demand model. Developed specific GIS tools to measure equity and environmental justice impacts of projects prior to project selection. Finalized the Universe of Projects to define the entirety of projects considered regionally significant and eligible for inclusion in ConnectRVA 2045. Developed scoring, benefit/cost analysis, and recommended ranking of projects for inclusion in the financially constrained project list. Continued development of opportunities for public engagement and feedback on the planning process, including roughly 1,000 comments on the Universe of Projects and two surveys through Metroquest to develop the Vision, Goals, and Objectives of the plan and to inform the advisory committee on preferences for funding of the plan and its modal elements.
- 7320 Developed next phase of Richmond Tri-Cities (RTC) model update with consultant. Continued work on development of economic and land use models for use in scenario planning.
- 7330 Finalized Transit Vision Plan (Short & medium range options) with consultant and steering committee. Supported DRPT in development of the Coordinated Human Services Mobility Plan. Continued coordination with GRTC and CVTA on developing the regional transit plan. Created and supported a Regional Public Transportation Work Group to focus on regional transit needs.
- 7340 Maintained a vibrant and informed Active Transportation Work Group (ATWG). Supported development of Fall Line plan. Continued development of Regional Bicycle and Pedestrian Plan update and components of *ConnectRVA 2045*. Actively participated with regional East Coast Greenway (ECG) partners to continue trail development.
- 7350 Continued development of a resilience component for *ConnectRVA 2045*. Included resilience as a major component of the scenario planning tools in development.

Task 7400 Short-Range Transportation Planning

- 7410 Maintained Congestion Management Process data and reporting. Developed visualizations and a storymap to explain performance measures and trends to elected officials and the general public. Continued supporting a RRTPO Vision Zero Workgroup and kicked off the development of a regional action plan with VDOT and VHB. Submitted safety measures for Federal performance measures.
- 7420 Developed and adopted the FY21-24 TIP. Maintained the current TIP and worked with partners to perform adjustments and amendments in a timely manner. Administered the RSTBG/CMAQ/TA project process. Continued development of suggested guidelines, policies, and processes for an update to the RSTP/CMAQ guidance and supported the RSTP/CMAQ guidelines work group. Published FY21 Annual Listing of Obligated Projects.

- 7430 Supported I-95 / Richmond Marine Terminal / Commerce Corridor Access study.

Task 7500 Rural Transportation Planning

- 7510 Analysis of vulnerable populations in the rural counties, including those most likely to be cut off from road access due to road flooding due to extreme weather events, poor road/bridge conditions or sea level rise, all factors which contribute to an assessment of the rural road system with regard to “resilience”

TABLE 1. Planning Factors and Task Matrix

RRTPO FY22 UNIFIED PLANNING WORK PROGRAM	PLANNING FACTORS									
	1	2	3	4	5	6	7	8	9	10
	Economic	Safety	Security	Accessibility	Environment	Connectivity	Management	Preservation	Storm Water	Tourism
7100 PROGRAM SUPPORT AND ADMINISTRATION										
Task 7110 Program Management	X	X		X		X	X			
Task 7120 UPWP, Budget and Contract Administration	X	X		X		X	X			
7200 GENERAL DEVELOPMENT & COMPREHENSIVE PLANNING										
Task 7210 Public Outreach & Equity Analysis			X	X	X					X
Task 7230 Special Planning Efforts	X	X	X	X	X	X	X			X
Task 7240 Contingency Funding			X	X	X	X	X			
7300 LONG-RANGE TRANSPORTATION PLANNING										
Task 7310 Long-Range Transportation Plan	X	X	X	X	X	X	X	X	X	X
Task 7315 Scenario Planning	X	X	X	X	X	X	X	X	X	X
Task 7320 Travel Demand Modeling & Emissions Analysis	X	X		X	X	X	X	X		
Task 7330 Transit	X	X	X	X	X	X	X	X	X	X
Task 7340 Active Transportation: Bicycle & Pedestrian	X	X	X	X	X	X	X	X	X	X
7400 SHORT-RANGE TRANSPORTATION PLANNING										
Task 7410 Performance Based Transportation Planning	X	X	X	X	X	X	X	X	X	X
Task 7420 Financial Programming / Transportation Improvement Program	X	X	X	X	X	X	X	X	X	X
Task 7430 Rail, Freight and Intermodal Planning	X	X	X	X	X	X	X	X	X	X

FISCAL YEAR 2022 PROJECT TASK DESCRIPTIONS

RRTPO planning activities are divided into four major planning categories taken from the Federal Transit Act, Section 5303, Metropolitan Planning Program. Funding sources for planning activities include a combination of federal transit and highway programs.

The following pages describe each task, including its purpose, agency or agencies responsible for carrying out the work, and expected results.

Table 2 lists the projects, tasks, and total cost budgeted for each project. For details, see the individual task descriptions beginning on the next page, and the FY 2022 RRTPO Budget, beginning on page 25.

TABLE 2. PROJECT CATEGORIES AND TASK BUDGET

Task Number	Title	Total Budgeted Amount
7100	PROGRAM SUPPORT & ADMINISTRATION	\$201,499
7110	Program Management	
7120	UPWP, Budget and Contract Administration	
7200	GENERAL DEVELOPMENT & COMPREHENSIVE PLANNING	\$378,177
7210	Public Outreach & Equity Analysis	
7220	Special Planning Efforts	
7230	Contingency Funding	
7300	LONG-RANGE TRANSPORTATION PLANNING	\$1,677,791
7310	Long-Range Transportation Plan	
7315	Scenario Planning	
7320	Travel Demand Modeling & Emissions Analysis	
7330	Transit	
7340	Active Transportation: Bicycle & Pedestrian	
7350	System Resilience Plan	
7400	SHORT-RANGE TRANSPORTATION PLANNING	\$561,369
7410	Performance Based Transportation Planning	
7420	Financial Programming / Transportation Improvement Program	
7430	Rail, Freight & Intermodal Planning	

7100 PROGRAM SUPPORT AND ADMINISTRATION

Task 7110 Program Management

Purpose:

1. Support the planning process and provide contract administration for federal, state, and other funding programs as appropriate.
2. Support Policy Board, Technical Advisory Committee (TAC), Community Transportation Advisory Committee (CTAC) & subcommittee meetings.

Method:

Major work activities within this task include: developing agendas, minutes, mailings, work status reports, program management and administration; federal/state program requirements and review of related legislation; and computer program support.

PlanRVA staff serves as lead staff for RRTPO program administration with VDOT Richmond District providing support through its partnership on committees and work groups, processing quarterly bills and other requisitions, and conducting various other technical and administration support activities. VDOT State Planning & Research (SPR) funds programmed under UPWP task 7110 provides for VDOT Richmond District support on all RRTPO work tasks.

7110 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Maintenance and administration of the program	Ongoing
2. Maintain current information on regional plans and programs	Ongoing
3. Coordinate consultant-related activities	As Needed
4. Coordinate the RRTPO Transportation Forum	As Needed
5. Coordinate and fulfill interagency review and information requests	As Needed
VDOT	
1. Maintain data and provide forecasts	As Needed
2. Provide technical assistance to the RRTPO, member governments, and other agencies	As Needed
3. Provide review and guidance related to RRTPO planning and programming requirements and assistance addressing federal requirements	Ongoing

7100 PROGRAM SUPPORT AND ADMINISTRATION

Task 7120 UPWP, Budget and Contract Administration

Purpose:

1. Develop and maintain the Unified Planning Work Program.
2. Develop time allocations, budgets, and funding scenarios to support UPWP deployment.

Method:

PlanRVA staff will cooperatively develop and administer the UPWP, and coordinate RRTPO planning activities and committee meetings in compliance with UPWP funding agencies. This work effort also supports the RRTPO program by providing legal and other financial services related to the RRTPO program.

This task provides for maintenance of the adopted UPWP and annual development of the RRTPO work program for the upcoming fiscal year. Work in this task includes development of time allocations, budgets, and funding to support the task descriptions. The UPWP also identifies the region’s planning priorities, documents cooperation between the RRTPO and Tri-Cities Area MPO on various work activities and notes non-RRTPO transportation study activities funded by FTA as informational items.

7120 Expected Results/Product:	Anticipated Completion Schedule:
RRTP0	
1. Administer RRTPO FY 2022 UPWP	Ongoing
2. Prepare and publish the RRTPO FY 2023 UPWP	June 2022
3. Prepare FY21 UPWP amendments for year end funds transfer	October 2021
4. Work with member governments to prepare grant applications supporting the UPWP	As Needed
5. Communicate UPWP activities to the public through CTAC and outreach methods identified in the RRTPO Public Engagement Plan	Ongoing
6. Coordinate and fulfill review and information requests	As Needed
7. Approval and management of funding agreements	As Needed
8. Provide regular progress updates to VDOT and DRPT	Ongoing
9. Provide review and guidance related to RRTPO planning and programming requirements and assistance addressing federal requirements	Ongoing

7200 GENERAL DEVELOPMENT & COMPREHENSIVE PLANNING

Task 7210 Public Outreach & Equity Analysis

Purpose:

- 1) Actively engage stakeholders and the general public with information regarding RRTPO activities and current issues in metropolitan transportation planning.
- 2) Encourage and document citizen engagement in the development of RRTPO transportation plans, programs and policies via the approved PlanRVA Public Engagement Plan, Title VI Plan, and associated policies and procedures.

Method:

This work effort supports the development of a functional and viable community engagement program, which creates a “citizen planner” role for the public on transportation issues and encourages public input to the transportation planning and programming process.

The RRTPO organization includes a standing Community Transportation Advisory Committee (CTAC) appointed by the RRTPO policy board. The CTAC membership includes representation from all the RRTPO local jurisdictions and community organizations, including a focus on seniors, individuals with disabilities, persons with low income and all persons that are transportation disadvantaged. Engagement with CTAC provides an opportunity for citizen and interested party input to inform and advise the RRTPO on plans, studies, issues, and other matters related to the planning of transportation systems and services.

In addition to supporting CTAC and the work groups, the RRTPO encourages community engagement for each of its work products, including the Long-Range Transportation Plan, Regional Bicycle and Pedestrian Plan, and other current plans and studies. There are various ways to get involved, including the PlanRVA website, open meetings, community events, and other methods outlined in the RRTPO Public Engagement Plan.

7210 Expected Results/Product:	Anticipated Completion Schedule:
RRTP0	
1. Implement and document public information and citizen participation	Ongoing
2. Revise & update RRTPO Public Engagement Plan to include best practices	As Needed
3. Maintain regional profiles for disenfranchised populations	Ongoing
4. Support CTAC, TAC, LRTP Advisory Committee, Public Transportation Work Group, Active Transportation Work Group, and Vision Zero Work Group	Ongoing
5. Maintain PlanRVA website and project pages including storymaps	Ongoing/As Needed
6. Serve as a resource to VDOT & VDRPT to enhance participation by elderly, disabled, and low-income populations in transportation plans	As Needed

7. Support Senior Connections as a partner in developing regional coordination services as described in the RRTPO Needs and Gaps Assessment of the Transportation Disadvantaged report	Ongoing
8. Update and revise MOAs and committee bylaws	As Needed
9. Implement/administer any changes to the MPO organization structure, as needed	As Needed
VDOT	
1. Support PlanRVA efforts to engage regional stakeholders and the general public	Ongoing
VDRPT	
1. Encourage and participate in PlanRVA efforts to raise awareness of transit improvement projects	Ongoing

7200 GENERAL DEVELOPMENT & COMPREHENSIVE PLANNING

Task 7220 Special Planning Efforts

Purpose:

- 1) Participate in and provide technical support to special planning efforts or studies in the region that are related to or impact transportation planning, system performance and financial programming as determined by the RRTPO Secretary.

Method:

PlanRVA staff will work closely with member governments and partner agencies to complete additional studies and plans that help to advance the transportation plans of the region, including but not limited to collaborative strategic planning, economic development, land use analysis, tourism planning, regional and megaregional partnerships, financial competitiveness studies, and professional advancement.

7220 Expected Results/Product:	Anticipated Completion Schedule:
RRTP0	
1. Central Virginia Transportation Authority – Serve as a resource to assist the CVTA in establishing transportation plans and funding priorities for projects in the region.	Ongoing
2. Professional leadership and advancement – work to be an active participant and leader in various professional organizations like the Virginia Association of MPOs, National Association of Regional Councils, Association of Metropolitan Planning Organizations, Transportation Research Board, ITSVA, American Planning Association, etc.	Ongoing
3. National Best Practices – Spread the word about work that PlanRVA is doing by attending and presenting at local, state, and national conferences.	Ongoing
4. Automated and Connected Vehicle Technology – Continue to work with VDOT and other partners to study and advance innovative technologies to support regional transportation mobility and accessibility	Ongoing
5. Actively participate in VDOT or locality-led regional transportation studies like STARS, Arterial Management Plans, IMRs and IMJs as well as responding to data requests	As Needed

7200 GENERAL DEVELOPMENT & COMPREHENSIVE PLANNING

Task 7230 Contingency Funding

Purpose:

- 1) Provide additional support for new and unforeseen activities.

Method:

Financially support unforeseen activities related to community engagement, staffing, consultant contracts, or other activities associated with UPWP tasks. This item may also be used for funding new UPWP tasks that may be approved by the RRTPO Policy Board during the fiscal year

7230 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Staffing or administrative tasks as appropriate to actively pursue and complete projects developed under the UPWP	As Needed
2. Consultant contracts to address needs or other projects as developed during the fiscal year	As Needed
3. Additional public engagement as identified during the planning phases for project assignments	As Needed
4. New UPWP tasks developed as part of a needs assessment during the fiscal year	As Needed
5. Address unanticipated funding shortfalls and/or rescissions	As Needed

7300 LONG-RANGE TRANSPORTATION PLANNING

Task 7310 Long-Range Transportation Plan

Purpose:

- 1) Develop a comprehensive future-reaching transportation plan to assess mobility and access needs of the Richmond region

Method:

In accordance with RRTPO policy and applicable federal regulations, PlanRVA will coordinate and undertake various activities to update the Long-Range transportation plan in consultation and coordination with VDOT and VDRPT staffs. The existing plan will be monitored and amended as necessary.

7310 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Satisfactory progress in monitoring and implementing <i>plan2040</i>	Ongoing
2. Develop <i>ConnectRVA 2045</i>	October 2021
3. Update financial assumptions for <i>ConnectRVA 2045</i>	October 2021
4. Coordinate with VDOT and VDRPT on Regional Performance Measures and their incorporation into <i>ConnectRVA 2045</i>	Ongoing
5. Develop a comprehensive Scenario Planning process upon completion of <i>ConnectRVA 2045</i> that will inform the development of the next Long-Range Transportation Plan. This process will include community education, research, and data development during a multi-year planning process.	Throughout FY 2022
VDOT	
1. Support RRTPO in development of <i>ConnectRVA 2045</i> and scenario planning effort	Ongoing
2. Consider the impact of recommendations from various studies on <i>ConnectRVA 2045</i> , in association with VDOT planning efforts	Ongoing
3. Evaluate the impact of performance measure targets on VDOT long-term planning efforts	Ongoing
4. Implement <i>VTrans</i>	Ongoing
VDRPT	
1. Support RRTPO in developing <i>ConnectRVA 2045</i> and scenario planning effort	Ongoing

2. Review RVA Transit Vision Plan and other regional transit and mobility plans in coordination with GRTC planning efforts for consistency with <i>ConnectRVA 2045</i> targets	Ongoing
3. Evaluate the impact of performance measure targets on VDRPT long-term planning efforts	Ongoing

7300 LONG-RANGE TRANSPORTATION PLANNING

Task 7315 Scenario Planning

Purpose:

- 1) Develop a multi-disciplinary future conditions prediction model using scenario planning

Method:

In accordance with applicable federal regulations and accepted best practices, PlanRVA will coordinate and undertake various activities to develop a new scenario planning model. The model will be developed through open public education, engagement and equitable practices with a focus on broad consensus on outcomes.

7315 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Develop the scenario planning scope and timeline	March 2022
2. Identify steering committee and associated stakeholders	April 2022
3. Coordinate with VDOT, VDRPT, and other partners on available data sources and cooperative use	Ongoing
4. Develop a comprehensive Scenario Planning process that will inform the development of the next Long-Range Transportation Plan. This process will include community education, research, and data development during a multi-year planning process.	Throughout FY 2022 and FY 2023
VDOT	
1. Support RRTPO in development of the scenario planning effort	Ongoing
2. Evaluate the impact of scenario planning outcomes on VDOT long-term planning efforts	Ongoing
3. Implement VTrans	Ongoing
VDRPT	
1. Support RRTPO in developing scenario planning effort	Ongoing
2. Evaluate the impact of scenario planning outcomes on VDRPT long-term planning efforts	Ongoing

7300 LONG-RANGE TRANSPORTATION PLANNING

Task 7320 Travel Demand Modeling & Emissions Analysis

Purpose:

- 1) Simulate existing and future travel demand.
- 2) Effectively model, analyze, and document multi-modal transportation networks.
- 3) Estimate on-road motor-vehicle emissions, as needed.
- 4) Develop new methods for performing scenario analysis and planning

Method:

PlanRVA and VDOT will cooperatively utilize the Richmond / Tri-Cities (RTC) travel demand model; prepare, analyze and document network-based travel forecasts, as needed; and undergo training in the use of travel demand modeling and emissions analysis tools. PlanRVA will utilize the Replica model platform to develop alternative analyses and investigations into future conditions and impacts of transportation decision-making.

7320 Expected Results/Product:	Anticipated Completion Schedule:
RRTP0	
1. Maintain and implement the RRTP0 Travel Demand Model	Ongoing
2. Oversee consultant work on the RRTP0 Travel Demand Model	Ongoing
3. Provide forecasts for regional studies	Ongoing/As Requested
4. Develop scenario planning platform and tools necessary to investigate future impacts from transportation investment. Ensure compatibility of output from Cube™ for use with scenario planning tools and other platforms such as Replica	Ongoing
5. Continue work on update of the RRTP0 Travel Demand Model and related sub-models for use in scenario planning	Ongoing
6. Consult and cooperate with member governments, VDOT, Tri-Cities MPO, and other groups to develop use opportunities for the Travel Demand Model in small-area, corridor, and other types of local planning efforts	Ongoing/As Needed
VDOT	
1. Assist with maintenance/implementation of the RRTP0 Travel Demand Model	Ongoing

2. Provide inputs for regional air quality analysis	Ongoing/As Needed
VDRPT	
1. Coordinate with RRTPO and VDOT to incorporate current transit data and forecasts into the Travel Demand Model	Ongoing/As Needed

7300 LONG-RANGE TRANSPORTATION PLANNING

Task 7330 Transit

Purpose:

- 1) Identify opportunities to enhance and increase connectivity to transit across the Richmond region.
- 2) Advance the coordination of transportation services for all people in the Richmond region with focus through an equity lense on disadvantaged and environmental justice populations.

Method:

PlanRVA staff will support the implementation of the Transit Vision Plan (Short & medium range options), which increases emphasis on implementation of critical first steps of the Transit Vision Plan. PlanRVA will also support the state designated Area Agency on Aging in the development and implementation of a plan to coordinate regional transportation services meeting the needs of disadvantaged populations.

7330 Expected Results/Product:	Anticipated Completion Schedule:
RRTP	
1. Support implementation of the Greater RVA Transit Vision Plan	Ongoing
2. Support the implementation of the Coordinated Human Services Mobility Plan	Ongoing
3. Support the development of regional priorities for transit through staff support of the Central Virginia Transportation Authority.	Ongoing
4. Coordinate Transportation Demand Management processes and policies to improve congestion levels, influence travel demand and improve system efficiency. Particular emphasis on this program will be in partnership with Ridefinders.	Ongoing
5. Coordinate with Greater Richmond Transit Company (GRTC) to improve service to the region, including assistance with GRTC long range planning and visioning through its TDP and related plans and studies	Ongoing
GRTC	
1. Solicit support and technical assistance from PlanRVA staff for annual development of a plan for regional public transportation within Planning District 15	Ongoing
VDRPT	
1. Solicit support & technical assistance from PlanRVA staff on implementation plans for the Greater RVA Transit Vision Plan	Ongoing

7300 LONG-RANGE TRANSPORTATION PLANNING

Task 7340 Active Transportation: Bicycle & Pedestrian

Purpose:

- 1) Plan for all modes of travel, including bicycle and pedestrian facilities connection home, work, and school.
- 2) Provide a forum for regional conversation regarding active transportation and community health.

Method:

The RRTPO is responsible for planning all modes of transportation including connecting accessible pedestrian facilities and bicycle facilities. This task provides oversight for the regional bicycle & pedestrian plan and pledges RRTPO support for area groups, organizations, and local governments to advance bicycle and pedestrian studies, programs, and projects.

7340 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Work with partners to identify needed non-motorized improvements as part of a larger connectivity strategy with the regional transportation network	Ongoing
2. Coordinate and facilitate regional conversations on the off-road alignment of the East Coast Greenway	Ongoing
3. Support the development of the Fall Line network and provide technical assistance	Ongoing
4. Develop integrated components of <i>ConnectRVA 2045</i> dedicated to improving bicycle and pedestrian connectivity	November 2021
5. Complete the Regional Bicycle & Pedestrian Plan update	August 2021
6. Collect and synthesize performance data on nonmotorized travel as available	Ongoing
7. Continue the work of the Active Transportation Work Group	Ongoing
8. Work with member governments and state agencies to advance development of bicycle and pedestrian facilities	As Needed
VDOT	
1. Include PlanRVA staff as technical resources for new and ongoing bicycle and pedestrian projects in the Richmond region	As needed
2. Share counts and other performance metrics with PlanRVA staff for inclusion in plans and projects	Ongoing

7300 LONG-RANGE TRANSPORTATION PLANNING

Task 7350 System Resilience Plan

Purpose:

- 1) Following guidance in the FAST Act, consider projects and strategies that will improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts on the transportation system as well as reduce the vulnerability of existing transportation infrastructure to natural disasters.

Method:

Coordinate transportation planning with environmental partners, homeland security, disaster preparedness, and post-disaster redevelopment planning. Enhance the resiliency of the transportation system to withstand threats from man-made and natural disasters. Think long-term about how to function as a region when societal gathering patterns are disrupted by weather, disease, economic turmoil, or other regional factors.

7350 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Develop a system resilience component as part of <i>ConnectRVA 2045</i>	October 2021
2. Work with VDOT to develop a system for infrastructure assessment and prioritization	As Needed
3. Develop a watershed-based digital flood tool that will provide current information on potential impacts and priority infrastructure needs	Ongoing
4. Develop project prioritization metrics that reflect resilience and environmental factors of project development	Ongoing
VDOT	
1. Collaborate with PlanRVA to develop a summary database of infrastructure vulnerability	Ongoing

7400 SHORT-RANGE TRANSPORTATION PLANNING

Task 7410 Performance Based Transportation Planning

Purpose:

- 1) In conjunction with VDOT, establish and work towards meeting a defined set of performance measures and targets through planning and programming projects that contribute towards regional goals.
- 2) Assess progress towards meeting goals.

Method:

Once VDOT has completed statewide target setting, MPOs in the Commonwealth will have 180 days to establish targets by either: agreeing to plan and program projects so that they contribute toward the accomplishment of relevant VDOT targets; or committing to unique, quantifiable targets specific to their metropolitan planning area. Safety performance measure targets are set annually, whereas the Infrastructure and System Reliability performance measure targets are set as two- and four-year targets. At the midpoint, the four-year targets can be adjusted.

PlanRVA staff will work with OIPI regarding the establishment of performance measures and targets, how Federal rules will be implemented, and will monitor established rules and any proposed changes. The RRTPO will work with FHWA, FTA, VDOT and DRPT to incorporate these new requirements into the RRTPO planning and programming process in the work program. The following products and work tasks help to meet and assess these requirements.

7410 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Work with the RRTPO Vision Zero Workgroup to establish regional goals and to support and coordinate with local transportation safety organizations to better support improvement of traffic safety.	Ongoing
2. Congestion Management Process – report on system reliability, such as bottlenecks and travel time data for all CMP designated roads; analysis of congested road segments for AM and PM travel time periods and identify strategies to improve or mitigate congestion.	Ongoing
3. Congestion Management Process – analyze and report on accident data for all CMP network designated roads, plus those roads functionally classified as collector and above in the Richmond region	Ongoing
VDOT	
1. Collaborate with PlanRVA staff to develop Intelligent Transportation Systems (ITS) projects and programs	As Needed
2. Provide accident data to PlanRVA for use in developing CMP analysis and reporting	Ongoing

7400 SHORT-RANGE TRANSPORTATION PLANNING

Task 7420 Financial Programming / Transportation Improvement Program

Purpose:

- 1) Cooperatively develop and publish the RRTPO Transportation Improvement Program (TIP)
- 2) Select TIP projects to be implemented.
- 3) Revise policies and procedures for TIP development, as needed.
- 4) Develop and manage evaluation and allocation of federal and state transportation funding.
- 5) Prepare status reports on previously authorized TIP projects.

Method:

PlanRVA, VDOT, and VDRPT staff will jointly consult and coordinate with each other and with the RRTPO Policy Board and advisory committees to maintain the TIP as needed; monitor authorized TIP projects; revise as needed the RRTPO policies and procedures for TIP development; manage the RSTBG/CMAQ/TAP grant process; and publish the Annual Listing of Obligated Projects.

7420 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Update and revise the RSTBG/CMAQ Project Review, Selection, and Allocation process	August 2021
2. Develop and administer the RSTBG/CMAQ/TA project review, selection and allocation process to inform the SYIP	Ongoing
3. TIP Analysis and Maintenance	Ongoing
4. Publish FFY 2022 (October 1, 2021 – September 30, 2022) Annual Listing of Obligated Projects	December 31, 2021
VDOT	
1. Coordinate TIP project proposals for the State Highway System	Ongoing
2. Provide estimates of Federal/State funds available for TIP projects	As Needed
3. Coordinate with PlanRVA staff to develop funds allocation recommendations	Ongoing
VDRPT	
1. Coordinate transit TIP projects and amendments	As Needed

7400 SHORT-RANGE TRANSPORTATION PLANNING

Task 7430 Rail, Freight and Intermodal Planning

Purpose:

- 1) Moving people and goods efficiently with environmentally beneficial impacts.

Method:

In order for Richmond to compete in the efficient movements of goods and services in the coming years, the region will need to identify, develop and implement intermodal strategies which will provide good connectivity for passenger movement, transfer of rail shipments, improved rail access for local truck shipments, expanded opportunity for air cargo movement, and alternative options of importing and exporting regional cargoes, such as by barge to the Port of Virginia’s Richmond Marine Terminal. By ensuring the continued performance of the regional transportation system, the prevention of environmental degradation, while encouraging and attracting economic opportunities, the RRTPO will be promoting a high quality of life for our region.

The regional planning process can support policies that advocate investments in the rail system such as extension of sidings, crossovers, signal upgrades or grade-separation of crossings which can improve the performance of the rail system to the benefit of both passenger and freight movements.

7430 Expected Results/Product:	Anticipated Completion Schedule:
RRTPO	
1. Support Staples Mill Station redesign and upgrades	Ongoing
2. Freight corridor mapping based on freight-intensive land use and establishment surveys	Ongoing
3. Support implementation of I-95/RMT/Commerce Corridor Access Study	Ongoing
4. Freight and Intermodal Work Group – evaluate demand and feasibility	Ongoing
5. Richmond Area Rail Studies: Virginia State Rail Plan, Southeast High-Speed Rail (including DC2RVA: Washington to Richmond), Long Bridge / CSX plan – coordinate with VDRPT on work activities	As Needed

FISCAL YEAR 2022 RRTPO STAFFING AND BUDGET

RRTPO Staff Resources

Twelve personnel from PlanRVA are committed to full-time direct support of the tasks outlined in the FY 2022 RRTPO UPWP; another seven personnel are committed in part-time direct support. Additional personnel may be assigned to consultant-led work tasks.

Primary responsibility for the UPWP rests with PlanRVA staff. There are particular cases where other UPWP agencies are assigned primary responsibility for specific activities, as delineated in the task descriptions; PlanRVA will provide support for these activities. The PlanRVA Director of Transportation is responsible for overall program support and administration of RRTPO's work program tasks, as well as for interagency coordination with the other UPWP Agencies. Each staff person dedicated to direct support of the work program is charged with primary responsibility for accomplishing specific tasks or subtasks.

Table 3 summarizes overall federal and local revenues budgeted by PlanRVA in FY 2022 to support the work of RRTPO. Federal funds budgeted constitute 80 percent of the total; State and local matching funds constitute 20 percent, unless otherwise noted.

TABLE 3. SUMMARY OF FY 2022 RRTPO UPWP BUDGET

Work Task	RRTPO Budget				
	PL Approved	5303 Approved	CO PL Approved (1)	Other (2)	Grand Total
7110 Prog Mgmt	\$ 128,885	\$ 32,221	\$ -	\$ -	\$ 161,106
7120 UPWP	\$ 32,314	\$ 8,079	\$ -	\$ -	\$ 40,393
7210 Outreach & Equity	\$ 156,090	\$ 66,896	\$ -	\$ -	\$ 222,986
7220 Special Plng	\$ 51,472	\$ -	\$ -	\$ -	\$ 51,472
7230 Contingency	\$ 84,749	\$ 18,970	\$ -	\$ -	\$ 103,719
7310 LRTP	\$ 188,088	\$ 52,921	\$ 200,000	\$ -	\$ 441,009
7315 Scenario Planning	\$ -	\$ -	\$ -	\$ 243,550	\$ 243,550
7320 Travel Demand Model	\$ 119,756	\$ -	\$ -	\$ 250,000	\$ 369,756
7330 Transit	\$ -	\$ 239,087	\$ -	\$ -	\$ 239,087
7340 Act Transp	\$ 254,338	\$ -	\$ -	\$ -	\$ 254,338
7350 System Resiliency	\$ 130,051	\$ -	\$ -	\$ -	\$ 130,051
7410 Per Based Transp Plng	\$ 192,149	\$ -	\$ -	\$ -	\$ 192,149
7420 Fin Prog	\$ 264,070	\$ 57,967	\$ -	\$ -	\$ 322,037
7430 Rail & Freight	\$ 37,746	\$ 9,437	\$ -	\$ -	\$ 47,183
Total	\$ 1,639,708	\$ 485,578	\$ 200,000	\$ 493,550	\$ 2,818,836

(1) 7310 funds are direct carryover from FY21, (2) 7315 and 7320 funds are RSTBG funds for scenario planning and travel demand model development

FY 2022 RRTPO Budget

Figure 2 reflects the FY 2022 RRTPO budget by planning program project. On the following page, Table 4 details FY 2022 expenditures budgeted by PlanRVA on RRTPO planning projects or tasks described in this UPWP. For each planning project, total expenditures, type of fund, and federal/local matching amounts are identified.

FIGURE 2. FY 2022 TOTAL RRTPO BUDGET BY TASK

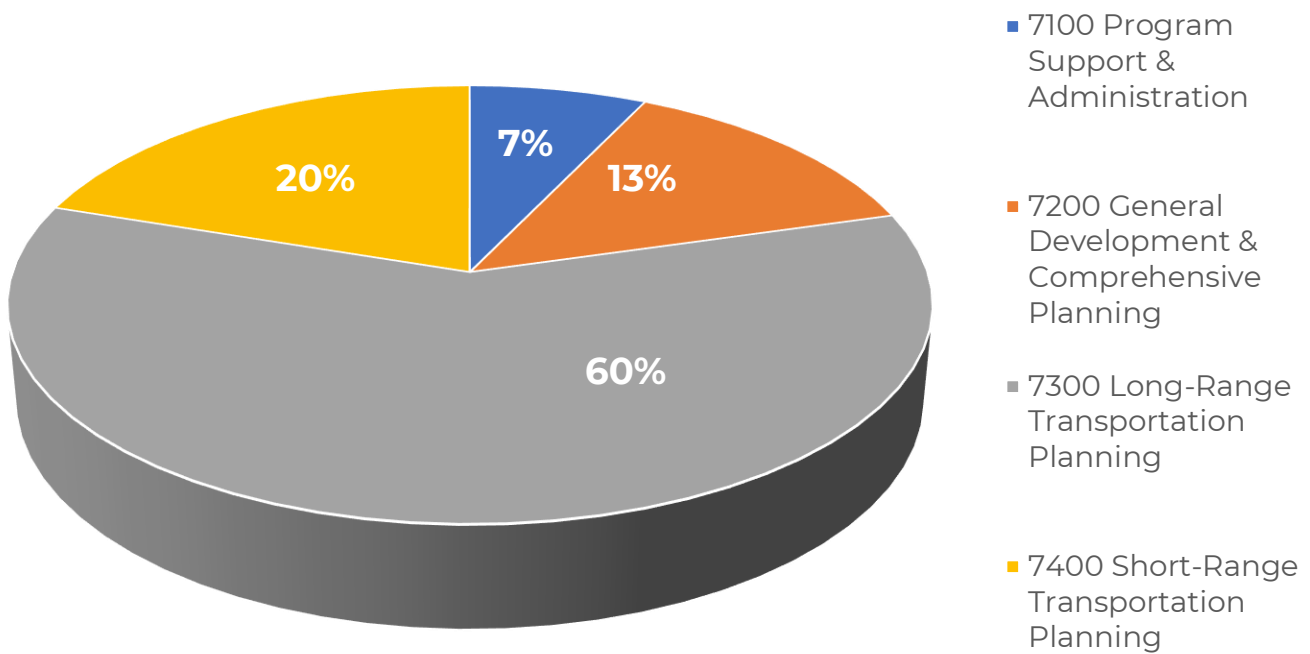


TABLE 4. FY 2022 RRTPO UPWP BUDGET

Work Task	FHWA - PL				FTA - 5303				FHWA - PL 2021 Carryover (1)				Other / STBG (2)			Grand Total
	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Total	
7110 Prog Mgmt	\$ 103,108	\$ 12,889	\$ 12,889	\$ 128,885	\$ 257,768	\$ 3,222	\$ 3,222	\$ 32,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 161,106
7120 UPWP	\$ 25,851	\$ 3,231	\$ 3,231	\$ 32,314	\$ 64,632	\$ 808	\$ 808	\$ 8,079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,393
7210 Outreach & Equity	\$ 124,872	\$ 15,609	\$ 15,609	\$ 156,090	\$ 535,169	\$ 6,690	\$ 6,690	\$ 66,896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 222,986
7220 Special Plng	\$ 41,178	\$ 5,147	\$ 5,147	\$ 51,472	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 51,472
7230 Contingency	\$ 67,799	\$ 8,475	\$ 8,475	\$ 84,749	\$ 151,757	\$ 1,897	\$ 1,897	\$ 18,970	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 103,719
7310 LRTP	\$ 150,470	\$ 18,809	\$ 18,809	\$ 188,088	\$ 42,337	\$ 5,292	\$ 5,292	\$ 52,921	\$ 160,000	\$ 20,000	\$ 20,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 441,009
7315 Scenario Planning	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 194,840	\$ 48,710	\$ 243,550	\$ 243,550
7320 Travel Demand Model	\$ 95,805	\$ 11,976	\$ 11,976	\$ 119,756	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 50,000	\$ 250,000	\$ 369,756
7330 Transit	\$ -	\$ -	\$ -	\$ -	\$ 1,912,696	\$ 23,909	\$ 23,909	\$ 239,087	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 239,087
7340 Act Transp	\$ 203,470	\$ 25,434	\$ 25,434	\$ 254,338	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 254,338
7350 System Resiliency	\$ 104,041	\$ 13,005	\$ 13,005	\$ 130,051	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 130,051
7410 Per Based Transp Plng	\$ 153,719	\$ 19,215	\$ 19,215	\$ 192,149	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 192,149
7420 Fin Prog	\$ 211,256	\$ 26,407	\$ 26,407	\$ 264,070	\$ 463,738	\$ 5,797	\$ 5,797	\$ 57,967	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 322,037
7430 Rail & Freight	\$ 30,197	\$ 3,775	\$ 3,775	\$ 37,746	\$ 75,496	\$ 944	\$ 944	\$ 9,437	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 47,183
Total	\$ 1,311,766	\$ 163,971	\$ 163,971	\$ 1,639,708	\$ 3,503,593	\$ 48,558	\$ 48,558	\$ 485,578	\$ 160,000	\$ 20,000	\$ 20,000	\$ 200,000	\$ 394,840	\$ 98,710	\$ 493,550	\$ 2,818,836

(1) 7310 funds are direct carryover from FY21, (2) 7315 and 7320 funds are RSTBG funds for scenario planning and travel demand model development

ACRONYM DEFINITIONS

Acronym	Definition
CMP	Congestion Management Process
CMAQ	Congestion Mitigation and Air Quality (federal funding)
CTAC	Community Transportation Advisory Committee, RRTPO advisory committee
CVTA	Central Virginia Transportation Authority
DRPT	Department of Rail and Public Transportation
EDAC	Elderly and Disability Advisory Committee, former RRTPO advisory committee
FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY / FFY	Fiscal Year / Federal Fiscal Year
GRTC	Greater Richmond Transit Company
IMR	Interchange Modification Report
L RTP	Long Range Transportation Plan
MPO	Metropolitan Planning Organization
OIPI	Office of Intermodal Planning and Investment
PL	Planning funds (federal funding category)
PlanRVA	Richmond Regional Planning District Commission
Policy	Decision-making body of the RRTPO, composed of elected officials from nine jurisdictions
RMTA	Richmond Metropolitan Transportation Authority
RRTPO	Richmond Regional Transportation Planning Organization
RSTP	Regional Surface Transportation Program (federal funding)
RSTBG	Regional Surface Transportation Block Grant (federal funding)
RTC	Richmond / Tri-Cities MPOs
STARS	Strategically Targeted Affordable Roadway Solutions
TAC	Technical Advisory Committee, RRTPO advisory committee
TIP	Transportation Improvement Program, list of upcoming transportation projects
UPWP	Unified Planning Work Program, the RRTPO annual budget and work program
VDOT	Virginia Department of Transportation
VTrans	Virginia statewide, long-range transportation plan