

FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM

for the National Capital Region

FINAL DRAFT
October 17, 2018



FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM

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ABOUT THE TPB

The National Capital Region Transportation Planning Board (TPB) is the federally designated metropolitan planning organization (MPO) for metropolitan Washington. It is responsible for developing and carrying out a continuing, cooperative, and comprehensive transportation planning process in the metropolitan area. Members of the TPB include representatives of the transportation agencies of the states of Maryland and Virginia and the District of Columbia, 23 local governments, the Washington Metropolitan Area Transit Authority, the Maryland and Virginia General Assemblies, and nonvoting members from the Metropolitan Washington Airports Authority and federal agencies. The TPB is staffed by the Department of Transportation Planning at the Metropolitan Washington Council of Governments (COG).

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This document makes multiple references to its own appendices and to the appendices of the Visualize 2045 plan document. For clarification purposes:

- **References to appendices of the FY 2019-2024 TIP document are in bold orange type, and**
- **References to the Visualize 2045 document appendices are in bold green type.**

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1. INTRODUCTION

What is a Transportation Improvement Program?

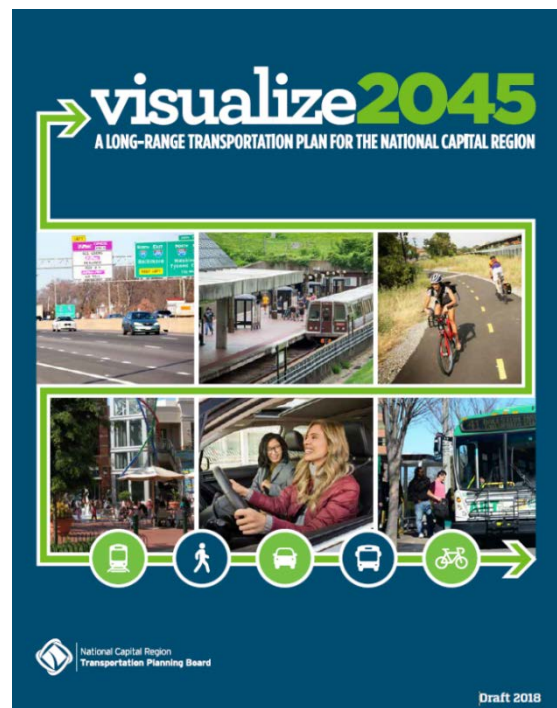
The Transportation Improvement Program (TIP) is a federal obligation document which describes the planned schedule in the next six years for distributing federal, state and local funds for state and local transportation projects. The TIP represents an agency's intent to construct or implement specific projects in the short term and identifies the anticipated flow of federal funds and matching state or local contributions. It is a multimodal list of projects that includes highway projects, rail, bus and streetcar projects, and bicycle and pedestrian improvements. It also includes roadway and transit maintenance projects, operational programs, and many other transportation-related activities. The TPB's FY 2019-2024 TIP contains over 300 project records and more than \$15 billion in funding across the region. The TIP is a dynamic budget document and is amended and modified on a weekly/monthly basis.

The National Capital Region Transportation Planning Board's FY 2019-2024 Transportation Improvement Program and Visualize 2045

Visualize 2045 is the federally required long-range transportation plan for the National Capital Region. It identifies all regionally significant transportation investments planned through 2045 in the financially-constrained element. It also includes an aspirational element to show projects not yet funded and to highlight the TPB's seven aspirational initiatives showing what the region aspires to do. Visualize 2045 also provides detailed analysis to help decision-makers and the public "visualize" the future.

Visualize 2045 and the TIP were developed according to the provisions of the metropolitan planning regulation of record in October 2017. The TPB has determined that Visualize 2045 and the FY 2019-2024 TIP are financially constrained and meet the federal requirements to demonstrate that the proposed project costs are consistent with the available and committed projected sources of transportation revenues and the existing transportation system has been demonstrated to be adequately operated and maintained.

As a product of the metropolitan transportation planning process, the TIP outlines the staged development of Visualize 2045 with priority projects selected for programming by the states and the transit agencies presented in the first and second year of the six-year program. The TPB officially updates the program every two years with a call for projects. State, regional, and local transportation agencies update the



TIP on a more frequent basis by amending or modifying the TIP to reflect their latest obligation plans. The TIP reflects the individual programming schedules for the District of Columbia (DC) and portions of the Commonwealth of Virginia and the State of Maryland, which are driven by state laws and legislative processes and each one is different. Maryland typically provides a complete TIP update in the Fall, Virginia provides a complete update in March, and DC provides a complete update in April. Each agency’s program documents span different time frames as well. At the time the FY 2019-2024 TIP was approved, and this document was first published, the TIP does not reflect the entire program of all three states. The TPB maintains a database of TIP projects which is updated regularly after any actions to amend or modify the TIP. The source documents for the TIP are legislatively approved and a description of each can be found in **Section 2 – Project Development Process**.

2. DEVELOPMENT OF THE FY 2019-2024 TIP

On October 18, 2017, the TPB began developing Visualize 2045 and the TIP by adopting and releasing a call for projects called the Technical Inputs Solicitation (TIS) Submission Guide for Visualize 2045 and the FY 2019-2024 TIP. During the development of the TIP, the TPB held a Public Forum on July 12, 2018. TPB Staff and member agencies reviewed draft project tables in August and a 30-day public comment period was held from September 7 through October 7, 2018. The TPB approved the FY 2019-2024 TIP on October 17, 2018.

Table 1: TIP Development Milestones

October 18, 2017	March 2, 2018	July 12, 2018	September 7 – October 7, 2018	October 17, 2018
TPB approves TIS Submission Guide	FY 2019-2024 TIP Inputs due	Public Forum on the TIP	Public Comment Period on TIP	TIP approved

The Technical Inputs Solicitation Submission Guide

The TPB approved the Technical Inputs Solicitation Submission Guide for Visualize 2045 and the FY 2019-2024 TIP in October 2017. This call for projects defined the schedule for developing and approving the plan and TIP and specified which agencies are eligible to submit projects. It asked agencies to consider a regional policy framework and federal requirements when selecting and prioritizing projects. The Technical Inputs Solicitation also provided instructions on how to submit project data for Visualize 2045, the FY 2019-2024 TIP and the air quality conformity analysis of those documents. The Submission Guide can be found in its entirety at the end of the **Visualize 2045 Appendix B – Summary of Projects in the Financially Constrained Element**.

Any municipal, county, state, regional, or federal agency with the fiscal authority to fund transportation projects is responsible for providing required project and program inputs for the FY 2019-2024 TIP. Inputs are required to be submitted by one of the TPB member jurisdictions or agencies listed in **Table 2**.

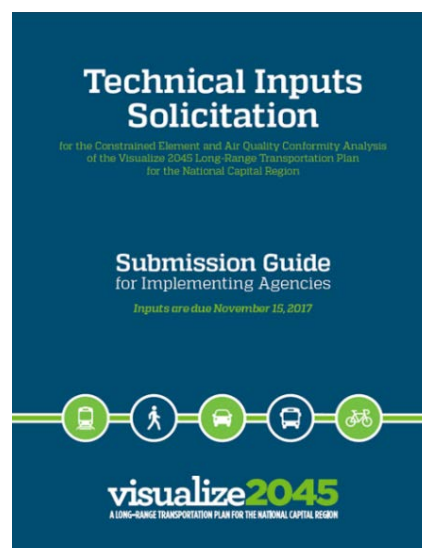


Table 2: TPB Member Agencies Responsible for TIP Programming

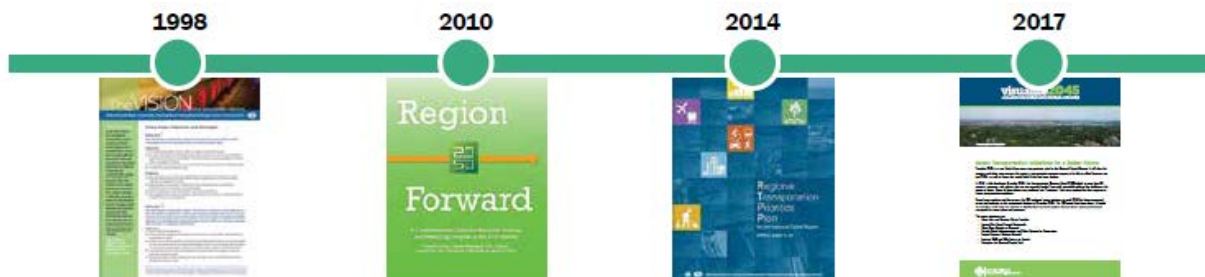
District of Columbia	Northern Virginia
District Department of Transportation (DDOT)	Virginia Department of Transportation (VDOT) Virginia Department of Rail and Public Transportation (VDRPT) Virginia Railway Express (VRE) Potomac and Rappahannock Transportation Commission (PRTC) Northern Virginia Transportation Authority (NVTA) Northern Virginia Transportation Commission (NVTC) Arlington County Department of Environmental Services* Fairfax County Department of Transportation* Fauquier County Department of Community Development* Loudoun County Department of Transportation and Capital Infrastructure* Prince William County Department of Transportation* City of Alexandria Department of Transportation and Environmental Services* City of Fairfax Department of Public Works* City of Falls Church Department of Public Works* City of Manassas Public Works Department* City of Manassas Park Public Works Department*
Suburban Maryland	
Maryland Department of Transportation <i>State Highway Administration (MDOT SHA)</i> <i>Maryland Transit Administration (MTA)</i> <i>Maryland Transportation Authority (MDTA)</i> Charles County Department of Public Works Frederick County Department of Public Works Montgomery County Department of Transportation Prince George’s County Department of Public Works and Transportation Maryland-National Capital Park and Planning Commission (M-NNCPPC) City of Frederick Planning Department Gaithersburg Public Works Department	
Regional	
Washington Metropolitan Area Transit Authority (WMATA) Eastern Federal Lands Highway Division Metropolitan Washington Airports Authority (MWAA)	

*Virginia local jurisdictions submit through VDOT but are still responsible for providing required information

REGIONAL POLICY FRAMEWORK

The Technical Inputs Solicitation asked agencies to document how their projects and programs support or advance a set of regional goals and priorities, collectively referred to as the TPB’s policy framework. This framework is a culmination of a 20-year evolution that began with a visioning process in 1998. This framework includes comprehensive strategies that promote a strong regional economy and help improve quality of life for all residents.

The policy statements and documents that make up the framework encourage the region’s transportation agencies to consider regional goals, priorities, and needs when developing and selecting projects to fund and implement. The policy framework consists of the TPB Vision, the Region Forward vision adopted by the Metropolitan Washington Council of Governments (COG) in 2010, the 2014 Regional Transportation Priorities Plan, and the seven aspirational initiatives recently endorsed by the TPB.



FEDERAL REQUIREMENTS

Visualize 2045 and the TIP also must meet federal planning requirements including the consideration of ten specific planning factors, financial constraint, air quality conformity, public involvement, Title VI of the Civil Rights Act of 1964, a Congestion Management Process and Performance-Based Planning and Programming. The federal planning requirements are described in more detail in **Section 3**. This is the first TIP for this region to be approved since the Performance-Based Planning and Programming requirements introduced in MAP-21 and the FAST Act have gone into effect. There are six national goals that have been defined by the FAST Act under Performance-Based Planning and Programming:

1. Highway Safety
2. Highway Assets
3. Highway System Performance
4. Vehicular Emissions
5. Transit Asset Management
6. Transit Safety

This TIP will provide a baseline against which progress on targets under these goals will be measured.

Project Development Process

The TPB Vision and the federal metropolitan planning requirements exert a direct influence on the types of projects that are developed and submitted to the TPB for inclusion in Visualize 2045 and the TIP. However, project development typically occurs at the state and local levels. Each state, locality, the District of Columbia, and the Washington Metropolitan Area Transit Authority (WMATA) controls its own funding stream and each has its own system for moving projects forward. Within each state, projects may be pursued for a variety of reasons and may have multiple sponsors.

IDENTIFYING NEEDS

Needs are identified through a variety of mechanisms throughout the region. Solutions are promoted by a number of different players. Here are some basic ways in which projects originate:

Local Government Plans

Transportation projects are often first identified through local planning, which is performed by county or municipal governments. Local comprehensive plans usually include a transportation element identifying specific projects that a local government has determined will be needed over the period of the plan, which is usually 20-25 years.

FEDERAL REQUIREMENTS

- Ten Planning Factors
- Financial Constraint
- Air Quality
- Public Participation
- Title VI/Environmental Justice
- Congestion Management Process
- Performance-Based Planning and Programming

Project Identification at the State Level

The state DOTs each have methods for identifying projects needed to maintain the integrity of the transportation system, enhance safety or improve mobility. In accordance with state law, the states give highest priority to maintenance needs or structural deficiencies. Project recommendations are often based upon each state's regular analysis of pavements, bridges, congestion levels and safety issues. The states propose other projects that are system "enhancements" including trails or landscaping, or projects to serve air quality improvement goals, such as park-and-ride lots or ridesharing programs. In other cases, the states recommend "new capacity"- new or widened roads, or transit extensions. However, construction of new facilities has become less frequent as the region's transportation system matures and funding tightens.

Regional Transit Plans and Studies

WMATA regularly assesses the needs of the Metrorail, Metrobus, and MetroAccess systems, and identifies new service and projects. Like the state DOTs, WMATA places a priority on keeping the system in a state of good performance, including replacement of rail cars and buses, escalator and elevator repair and track maintenance. WMATA also studies and identifies system enhancements, such as bus service improvements and station access improvements. The Maryland Transit Administration, the Virginia Department of Rail and Public Transportation and local transit agencies also perform their own studies, in addition to working with WMATA.

WMATA's capital needs are identified in WMATA's 10-year *Capital Needs Inventory and Prioritization* report, released in November 2016, and GM/CEO Wiedefeld's plan to "Keep Metro Safe, Reliable, and Affordable," released on April 19, 2017. Capital needs are divided into two categories: 1) State of Good Repair needs, which include projects that maintain and replace assets on a regular life cycle basis in order to deliver the same level of service; and 2) Future Compliance needs, which include projects that help meet growing ridership and improve the rider's experience.

Corridor and Sub-Area Studies

Major projects go through studies that look at a variety of transportation alternatives for particular "transportation corridors" or specific areas of the region. State agencies generally perform these studies, in cooperation with the TPB and in accordance with federal procedures.

Federal regulations require corridor or sub-area studies to be performed when major metropolitan highway or transit investments are being considered. In particular, the National Environmental Policy Act (NEPA) requires a type of corridor study known as an Environmental Impact Statement (EIS) before certain types of major projects may be constructed.

Corridor and sub-area studies typically examine the costs and benefits of various alternatives, and how effectively the different options would "get the job done." They also measure other social, economic or environmental impacts. Federal law requires adequate public involvement opportunities.

Just because a preferred alternative is selected, however, does not mean it will be built. Project funding involves policy and budget decision making-usually at the state level.

LONG-RANGE PLANNING AT THE STATE LEVEL

Each state has a long-range planning process that brings together project recommendations from local governments, the state DOTs, WMATA and other sources. A project does not have to appear in a state long-range plan in order to receive funding. However, the priorities established in these state plans often determine which projects get built. Unlike the constrained element of Visualize 2045, the long-range plans of the states and WMATA usually are not constrained by funding availability and may or may not list individual projects.

District of Columbia

In October 2014, the District Department of Transportation (DDOT) released moveDC, a multimodal long-range transportation plan. The new plan, which has a horizon year of 2040, has an emphasis on expanding transportation choices and providing better access to a wide variety of transportation modes. In addition, it focuses on maximizing safety and public space quality in major transportation corridors.

The D.C. Comprehensive Plan (the District's land use plan), which is the responsibility of the Office of Planning, promotes policies to increase the city's population. Accommodating additional travel demands will be a key element of the new Strategic Transportation Plan.

Maryland

The 2040 Maryland Transportation Plan (MTP) establishes policy goals for state transportation services and infrastructure over the next 20 years. The MTP is a starting point for the development of strategic plans, programs and projects by MDOT's different agencies.

The 2040 MTP identifies five goals that support MDOT's mission and vision: Quality of Service, Safety & Security, System Preservation & Performance, Environmental Stewardship, and Connectivity for daily Life. Each project also identifies which goals it supports. An update to this plan is expected to be adopted in January 2019.

Virginia

Virginia has a number of long-range planning efforts that serve as the basis for project development. A 20-year statewide transportation plan, called VTrans, provides policy guidance for all transportation modes. The VTrans final report identified policy recommendations in the areas of funding and investment, land use, connectivity, priority setting, and sustaining the VTrans vision. The state is currently updating this plan.

VDOT also develops a State Highway Plan that recommends specific road improvements for the next 20 years. VDOT has also launched a prioritization process for the Highway Plan that uses a quantitative methodology to rank projects and recommend priorities for short-term funding.

Finally, the Northern Virginia Transportation Authority (NVTA) has its own long-range transportation plan. The most recent version of this plan, called TransAction, was adopted in 2017. TransAction contains an ambitious multimodal list of projects, which are prioritized within 11 transportation corridors. The plan identified more than \$35 billion in unfunded needs.

The priorities in TransAction, together with VTrans and the State Highway Plan, serve as the basis for Virginia's project submissions for the TPB's Constrained Long-Range Plan.

WMATA

WMATA's Momentum strategic plan, approved in 2013, proposed an ambitious long-term program of projects, including new rail lines and expanded bus service. Current Board policy requires expansion projects to be funded by the local jurisdiction. Examples of such projects include the Dulles Rail Extension in Virginia and the Potomac Yard station in Alexandria. Because WMATA does not have a funding source that it alone controls, the recommendations of the Expansion Plan were intended to guide the decisions made by WMATA's funding partners - the states, local governments and the federal government. Significant changes to the transit network are submitted for inclusion in Visualize 2045.

WMATA's planned capital expenditures were based on 'steady-state' state of good repair needs from WMATA's Capital Needs Inventory (CNI) and identified backlog needs. Over the next ten years, WMATA has planned expenditures totaling \$15.5 billion, consistent with the GM/CEO's plan. From that, projects are developed and promoted to the six-year Capital Improvement Program. The funding in this TIP is based on the Capital Needs Inventory, the GM's plan, and on expected funding levels in the FY 2019-2024 CIP.

SIX-YEAR PROGRAMS AT THE STATE LEVEL

Each state also has its own procedure for developing transportation programs-lists of projects to be funded in the next six years. These short-range programs are dependent upon the legislative approval of transportation budgets. At the conclusion of the budgeting and programming process in each state, the projects are submitted to the TPB for inclusion in the regional TIP. The annual process is ongoing; just as the old programming cycle is ending, the new cycle is getting started.

District of Columbia

The D.C. Council approves the annual Capital Improvement Program budget for transportation.

Every year, the mayor submits the draft Capital Improvement Program (CIP) to the D.C. Council for approval. The CIP is a six-year program that includes all capital expenditures for the District, including transportation projects. The D.C. Council, acting as a state legislature, holds hearings on the draft CIP, which it can amend. As with other District legislation, both the Council and the Mayor must approve the CIP for it to move forward.

The U.S. Congress must enact the D.C. budget.

The District presents its proposed budget (both the CIP and the operating budget) to Congress for approval every summer. After a review process, Congress introduces and enacts federal legislation constituting the District's budget as part of the federal appropriations process.

D.C.'s six-year transportation program is submitted to the TPB for inclusion in the regional TIP.

Using the CIP as a basis for development, the District develops a six-year list of projects for inclusion in the TPB's TIP.

Maryland

During the Secretary's "Annual Tour," Maryland DOT officials get feedback about their draft six-year Consolidated Transportation Program (CTP) from county and local officials, and from the public. The Tour occurs every Fall.

Every year, each county and its state legislative delegation identify local transportation priorities and officially transmit them to MDOT in the form of their annual "Priority Letter." Using the Priority Letters along with needs identified in the previous year, MDOT develops a draft Consolidated Transportation Program (CTP), which is a six-year program of transportation projects.

Each fall, MDOT goes on the road to get feedback on the draft CTP. In a process commonly called the Annual Tour, MDOT officials visit each county and present the draft six-year program. After considering the input received from local and county officials during the Annual Tour, MDOT revises the CTP and submits it first to the Governor and then to the General Assembly for budget approval.

The Maryland General Assembly approves the six-year program.

MDOT annually submits the State Report on Transportation to the Maryland General Assembly. This report, consisting of the long-range MTP and the six-year CTP (described above), forms the basis for the governor's annual transportation funding request, which the General Assembly must approve. Maryland law does not permit the General Assembly to add projects to the governor's funding request, although the legislature may delete projects or funding.

Maryland annually submits a list of projects to the TPB for inclusion in the regional TIP.

Using the six-year CTP as a basis for development, Maryland develops a six-year list of projects for inclusion in the regional Transportation Improvement Program (TIP), which is approved by the TPB.

Virginia

The General Assembly approves funding for transportation in a two-year Appropriation Act.

Every two years, the Virginia General Assembly approves the two-year (biennial) Appropriation Act, which contains all statewide funding, including transportation spending. The revenues in the act are based largely upon estimates provided in the governor's Budget Bill. The estimates for transportation revenues are prepared by the Department of Taxation and the Virginia Department of Transportation.

The Appropriation Act generally allocates funding for broad transportation categories, not for individual projects, although the General Assembly sometimes earmarks funding for projects. After the first year of the biennial budget cycle is completed, the General Assembly has an opportunity to amend the budget.

The Virginia Commonwealth Transportation Board (CTB) annually approves the Six-Year Improvement Program.

Every year, the Commonwealth Transportation Board, which guides the work of the Virginia DOT much like a board of directors, develops the Six-Year Improvement Program (SYIP). This program

allocates money for transportation projects that are proposed for construction (including engineering and right-of-way acquisition), development or study in the next six fiscal years. In developing the SYIP, the Board considers the priorities identified by VDOT from the State Highway Plan, as well as needs identified in VTrans and Northern Virginia's TransAction.

The program is updated annually. Funding for the Six-Year Improvement Program is based upon the two-year Appropriation Act approved by the General Assembly and anticipated revenues for the remaining years of the plan. The SYIP must include all projects earmarked by the General Assembly.

Virginia annually submits a list of projects to the TPB for inclusion in the regional TIP.

Using the Six-Year Program as a basis for development, Virginia develops a six-year list of Northern Virginia projects for inclusion in the regional Transportation Improvement Program (TIP), which is approved by the TPB. The TIP is a subset of the SYIP. (See the next chapter for more information on the TIP.)

The WMATA Capital Improvement Program (CIP)

Projects programmed by the transit authority use funding from the federal government, and from state and local jurisdictions. WMATA recently updated their capital needs inventory which will serve as the foundation for future capital programs and support the development of a regional funding strategy for Metro. Capital needs are divided into two categories: 1) Performance needs, which include projects that maintain and replace assets on a regular life cycle basis in order to deliver the same level of service; and 2) Customer/Demand needs, which include projects that help meet growing ridership and improve the rider's experience.

Every year, WMATA's general manager submits an annual budget to the WMATA Board Finance, Administration, and Oversight (FAO) Committee. The proposed program may be revised by the committee, and then is reviewed and approved by the WMATA Board of Directors. The projects in this capital budget are then submitted for inclusion in the regional TIP. The 2019 program in this TIP are based on the projects laid out in the 2019 budget. The FY 2019-2024 funding in this TIP is based on the Capital Needs Inventory and on expected funding levels.

OTHER PROJECT PROGRAMMING

Other agencies, such as the National Park Service, and some counties, cities and towns develop projects using federal funds outside the state or WMATA programming processes. These projects also must be submitted to the TPB for inclusion in the regional TIP and plan.

The TIP integrates projects proposed by state and local transportation agencies into a program consistent with the current regional long-range transportation plan and policies. In the development of this program, individual agency inputs are evaluated for consistency with the plan and policies. The TIP includes projects within the boundary of the Washington Metropolitan Area.

TPB ACTIONS IN THE PROJECT SELECTION PROCESS

The TPB carried out several actions during the development of the TIP to impact the project selection process. This TIP update cycle began by issuing and approving the Technical Inputs Solicitation

Submission Guide. In response, agencies submitted information on new and existing projects. The TPB approves these project inputs in January 2018 and spent several months reviewing and analyzing the data to ensure that the project inputs are consistent with the region's air quality requirements. Once the analysis is complete, the TPB makes a final approval of Visualize 2045, the TIP, and the Air Quality Conformity Analysis.

Each agency reviews its projected revenues and project expenditures over the fiscal year span of the TIP and programs funding accordingly. TPB staff reviews the data and produces a financial summary for each agency that details funding totals by source and project type.

Several subcommittees of the TPB develop lists of projects to champion for inclusion in the TIP. In the past, the Bicycle and Pedestrian Subcommittee has presented their list of priority projects to the TPB. Similarly, the Freight subcommittee developed a list of highlighted projects and corridors that would enhance the movement of goods throughout the region. This list was presented to the TPB and was the subject of a discussion session at the TPB's Freight Forum. Other lists are also developed by the Regional Public Transportation Subcommittee and the Aviation Technical Subcommittee. The implementing agencies are encouraged to review these lists and consider which projects can be included in the next TIP cycle.

The TPB is the designated recipient for the Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities Program. As established under MAP-21 and continued through the FAST Act, the Enhanced Mobility of Seniors and Individuals with Disabilities Program aims to "improve mobility for seniors and individuals with disabilities throughout the country by removing barriers to transportation services and expanding transportation mobility options available." The TPB reviews applications from independent agencies and selects which projects will be awarded funds. The TPB is responsible for programming these funds in the TIP.

Under the federal Transportation Alternatives Set Aside (TA Set Aside) Program, the TPB is responsible for selecting projects using sub-allocated funding for Suburban Maryland, Northern Virginia, and the District of Columbia. The TA Set Aside, which is part of the Surface Transportation Block Grant Program, was previously known as the Transportation Alternatives Program (TAP) and that name is commonly still used. Each implementing agency will program these funds in the TIP when those projects are ready for implementation.

AMENDMENT AND ADMINISTRATIVE MODIFICATION PROCEDURES

The TPB officially updates the program every two years with a call for projects. State, regional and local transportation agencies update the TIP on a more frequent basis by amending or modifying the TIP to reflect their latest obligation plans. Please see **Appendix B** of this document for the TPB's approved TIP Amendment and Administrative Modification Procedures.

3. FEDERAL REQUIREMENTS

In the course of developing Visualize 2045 and this TIP, the TPB and the transportation implementing agencies also must comply with the following federal planning and programming requirements.

Federal Planning Factors

In 1998 the Transportation Equity Act for the 21st Century (TEA-21) established eight planning factors which must be considered in the development long-range plans and TIPs. In 2015, the Fixing America's Surface Transportation Act (FAST Act) reaffirmed those eight factors and added two more:

- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
- Increase the safety of the transportation system for motorized and non-motorized users;
- Increase the security of the transportation system for motorized and non-motorized users;
- Increase the accessibility and mobility of people and for freight;
- 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;
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
- Promote efficient system management and operation; and
- Emphasize the preservation of the existing transportation system.
- Improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation (New under the FAST Act); and
- Enhance travel and tourism. (New under the FAST Act)

The goals, objectives and strategies in the TPB Vision and the Regional Transportation Priorities Plan incorporate the ten federal planning factors. Each planning factor is covered by one or more of the goals, objectives and strategies, except for security, which is covered implicitly by the TPB Vision.

Financial Constraint

The Visualize 2045 financial plan was adopted by the TPB on October 17, 2018. The financial plan demonstrates that the region has forecast revenues which are reasonably expected to be available to cover the estimated costs of adequately maintaining, operating, and expanding the highway and transit system. This analysis is a required element of the TPB's long-range transportation plan.

Appendix A: Financial Plan of Visualize 2045 contains the full financial analysis, while this section provides a summary.

The financially constrained element of Visualize 2045 is fiscally realistic, balancing all proposed new project investments and system maintenance and operating costs with reasonable revenue expectations, as agreed upon by TPB and its implementation agency partners in the metropolitan transportation planning process. The sources of revenues for the region are shown in **Figure 1**.

A total of \$291.1 billion¹ in transportation revenues and expenditures is projected for the National Capital Region for the 27-year period of 2019 to 2045. **Figure 2** shows total expenditures, separated by mode and type. Transit expenditures include those for WMATA, local transit, and commuter rail. Over the 27-year period of Visualize 2045, public transportation is projected to absorb 66 percent of the total expenditures of \$291.1 billion. WMATA expenditures are forecast at \$139.3 billion (48 percent of the total) and match the available revenues. Highway expenditures and revenues total \$99.5 billion (34 percent). The majority of future transportation revenues will be devoted to the operation and maintenance of the current public transportation and highway systems. More information about the current financial plan is available at visualize2045.org/document-library.

The TIP is financially constrained by year and includes projects that can be implemented using current revenue sources. The TIP financial plan in **Section 4** provides the total dollars in year of expenditure dollars programmed by the District of Columbia, Maryland, Virginia, and the Washington Metropolitan Area Transit Authority (WMATA) for the FAST Act funding categories for each year. The TIP plan shows the funding programmed for the priority projects in the first and second years, which is consistent with the anticipated federal funding for FY 2019 and FY 2020 that each state has authorized for the region. It also shows the funding programmed for the third through sixth years for the District of Columbia, Northern Virginia and WMATA, At the request of the Federal Highway Administration (FHWA), Maryland’s tables extend only to the third and fourth years.

Figure 1: Visualize 2045 Revenues by Funding Source

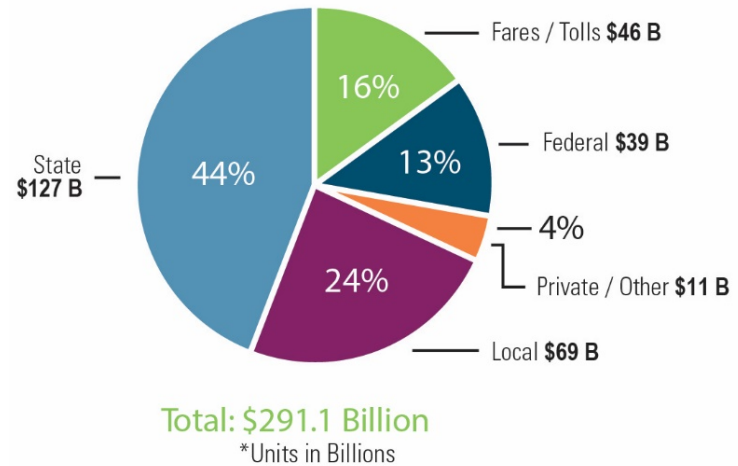
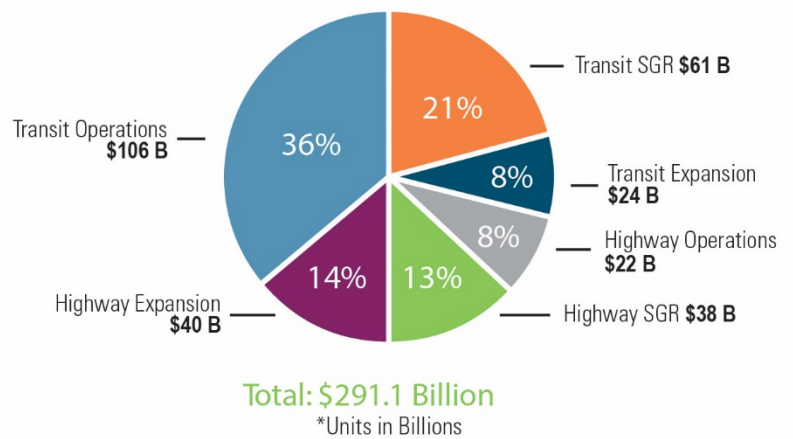


Figure 2: Visualize 2045 Expenditures by Type and Mode



¹ Because federal planning regulations require that the financial analysis show reasonably anticipated revenues and expenditures in year of expenditure (YOE) dollars, this report provides estimates in year of expenditure dollars. Year of expenditure dollars include inflation rates in the future years.

Air Quality Conformity

The financially constrained element of Visualize 2045 must demonstrate that future emissions under the plan are consistent or “in conformity” with emissions levels set forth in air quality plans adopted by the states. Since the Washington region does not currently meet federal standards for ground-level ozone, the TPB must demonstrate that future vehicle-related emissions of ozone-forming pollutants will, under the proposed constrained element plan, remain below the approved limits.

Under the constrained element of Visualize 2045, mobile emissions are expected to drop steadily mainly due to tougher fuel and vehicle efficiency standards. The plan’s air quality conformity assessment included comparing forecasted mobile source emissions to the region’s mobile emissions budgets for volatile organic compounds (VOC) and nitrogen oxides (NOx). The conformity analysis found that forecasts of mobile emissions for VOC and NOx are within required budgets for all analysis years of the plan.

Public Participation

In December 2007, the TPB adopted its first Participation Plan as required by the final planning regulations. The Participation Plan was updated and approved by the TPB on September 17, 2014. This TIP and Visualize 2045 were developed under procedures in the participation plan to involve citizens, affected public agencies, representatives of transportation agency employees, private providers of transportation, bicyclists, pedestrians, people with disabilities, and other members of the public. Copies of the TIP and major project submissions were accessible on the COG/TPB web page and were available for no charge at the COG Information Center.

On December 14, 2017, the TPB Citizens Advisory Committee (CAC) was briefed on the proposed significant changes for Visualize 2045. Draft maps and descriptions of the project submissions for the air quality conformity assessment were made available. On December 20, the TPB was briefed on the submissions. On January 17, 2018, the TPB was briefed on the public comments received on the project submissions, the recommended responses to the public comments, and approved the project submissions.

On July 12, 2018 the TPB hosted a Public Forum on the development of the FY 2019-2024 TIP, which included a preview of projects and funding levels in the TIP. The forum was held in conjunction with the TPB’s Citizens Advisory Committee and was also broadcast on Facebook Live. The presentation and a link to the recorded forum can be found at mwcog.org/TIPforum.

On September 7, 2018, the draft Visualize 2045 plan document, the draft FY 2019-2024 TIP, and the draft Air Quality Conformity Analysis were released for a 30-day public comment period which closed on October 7, 2018. Public comments could be submitted on-line, by e-mail, regular mail or by voice mail. An opportunity for public comment was provided at the beginning of the September 19 TPB meeting. Documentation of the public involvement and comment process on the FY 2019-2024 TIP is included in **Appendix D**.

Congestion Management Process

TPB has an important role to play in understanding and identifying the full range of strategies to address traffic congestion in the region. Federal law requires the TPB to provide for “safe and effective integrated management and operation of the multimodal transportation system... through the use of travel demand reduction and operational management strategies.”

The Congestion Management Process (CMP) provides for a systematic approach to monitoring the performance of the region’s transportation system and identifying and evaluating the benefits that various congestion management strategies may have. Through various programs, the CMP monitors the performance of the transportation system. With accurate and reliable data, the TPB and regional partners work to establish strategies and initiatives to help alleviate congestion. Both demand management and operational management strategies are pursued. Demand management seeks to reduce congestion by reducing the number of vehicles (especially single occupant vehicles) on the road during high-volume time periods while operational management focuses on incident management, technology advances, and, when necessary, capacity increases.

CMP activities benefit strongly from regional participation. The TPB Technical Committee, the Systems Performance, Operations, and Technology Subcommittee, and the Commuter Connections Subcommittee consult regularly on staff’s work. Further, TPB’s Commuter Connections program plays a critical role in implementing the most impactful strategies for demand management.

More information on the CMP can be found in [Appendix E: Congestion Management Process Federal Compliance and Impact on Plan Development](#), or online at mwcog.org/cmp.

Performance Based Planning and Programming

Performance-based planning and programming (PBPP) is a new process requiring states and MPOs to “transition to a performance-driven, outcome-based program that provides for a greater level of transparency and accountability, improved project decision-making, and more efficient investment of federal transportation funds.”² In coordination with partners, the TPB is tasked with setting targets for 25 performance measures. **Table 2** lists eight performance areas along with their related measures and metrics that the TPB will track. As PBPP progresses over the years, performance compared to the targets will help inform funding decisions and help achieve targets.

Table 3: Performance-Based Planning and Programming Measures and Metrics

Performance Area	Measure	Metric
Highway Safety	5-Year Rolling Average	<ul style="list-style-type: none"> • # of Fatalities • Rate of Fatalities • # of Serious Injuries • Rate of Serious Injuries • # of Non-Motorized Fatalities and Serious Injuries
Highway Asset Management	Percent of Pavement Lane Miles*	<ul style="list-style-type: none"> • In Good Condition • In Poor Condition
	Percent of Bridge Deck Area	<ul style="list-style-type: none"> • In Good Condition • In Poor Condition
Performance of National Highway System	Percent of Person Miles Traveled	Level of Travel Time Reliability
Freight Movement Reliability	Index	Truck Travel Time Reliability
Roadway Congestion	Annual Hours Per Capita	Peak Hour Excessive Delay
	Percent of	Non-Single Occupancy Travel
Vehicular Emissions	Total Emissions Reduction	Volatile Organic Compounds and Nitrogen Oxides
Transit Asset Management	Percent of	<ul style="list-style-type: none"> • Service Vehicles exceeding Useful Life • Revenue Vehicles exceeding Useful Life • Track Segments with Performance Restrictions • Facilities rated Marginal or Poor
Transit Safety	Number and Rate (per Revenue Vehicle Mile)	<ul style="list-style-type: none"> • Fatalities by Mode • Reportable Injuries by Mode • Reportable Safety Events by Mode
	Mean Distance	Between Major Mechanical Failures by Mode

*Measures calculated for the Interstate and for the National Highway System (excluding Interstate).

As included in the Metropolitan Planning Agreement (3C Agreement) approved by the Transportation Planning Board on April 18, 2018 in accordance with the latest federal metropolitan planning requirements as adopted in the FAST Act, the TPB’s TIP includes a description of how the investments in the TIP make progress toward achievement of the targets. See [Section 6](#) for an analysis of projects and funding in the TIP as they pertain these performance measures.

² Federal Register, Vol. 81, No. 103, Friday, May 27, 2016, page 34051, Section B.1.

4. TIP FINANCIAL PLAN

This section presents the financial plan for the Washington region's TIP. FAST Act funding for the region is provided under either Title I, Surface Transportation, or Title III, Transit. Within each title are several programs or funding categories, such as the National Highway Performance Program and the Surface Transportation Block Grant Program under Title I, and the Section 5307 transit capital program under Title III. In addition to federal funding, there is state and local funding as well as private sector and other sources of funding in the TIP.

With the exception of some FTA Section 5310 funding, all federal funding is apportioned to states. To verify that the projected funding authorized in the FAST Act is consistent with the funding programmed on projects in the Washington region's TIP, financial summaries are prepared for the District of Columbia, Maryland and Virginia, WMATA, and the region as a whole. The summaries provide each source's federal and total (with state and/or local match) funding amounts for FY 2019 and FY 2020 individually. Federal and total amounts for the third and fourth years of the TIP (FY 2021 and FY 2022) are combined as are the fifth and sixth years (FY 2023 and FY 2024), except for Maryland's summaries in **Table 5**. Finally, each summary table provides the federal and total funding amounts across the six-year span of the TIP.

The funds programmed in the TIP for each state by FAST Act program category have been compared with FAST Act and state funding that has been authorized by each state for the region. The funding programmed for the projects in the first years and second years is consistent with the anticipated FAST Act funding authorized for FY 2019 and FY 2020. The funding programmed for the third through sixth years is consistent with the projected federal dollars to be authorized by the states.

Financial Summaries for the Region by Funding Source

The tables on the next several pages summarize the federal and non-federal funding planned to be spent on projects and programs across the region over the next six years. As previously noted, the amounts summarized here reflect the funding that the states have programmed to date. There will be monthly and weekly amendments and modifications made to adjust these funding levels over the next two years. Additionally, the District of Columbia, the Commonwealth of Virginia and WMATA typically submit annual requests to update their respective complete portions of the TIP to reflect their latest obligation plans.

Table 3 shows the Title I and Title III funding along with state, local and other sources programmed throughout the region for fiscal years 2019 through 2024, totaling about \$15.7 billion. The four columns under the 2019 and 2020 headers show the amount of "Federal" funding by source for each year next to the "Total" amount which includes any required matching contributions from state or local sources. The next four columns similarly show the federal and total amounts of each source programmed but as a combined sum of FY 2021 and FY 2022, and FY 2023 and FY 2024 respectively. The final column sums up the federal amounts programmed for each source between FY 2019 and FY 2024 along with the total for that same time span.

Of the \$15.7 billion programmed around the region, only \$6 billion is coming from federal Title I or Title III sources. The largest component of the regional total is \$7.8 billion in state and local funding. More than \$5 billion of that are contributions from DC, Maryland and Virginia to WMATA.

Table 4 shows a similar breakdown of just over \$2 billion in funding for projects and programs implemented by DDOT. More than half of that total, \$1.3 billion comes from Title I sources and their required matching funds, while only \$1.6 million is programmed from FTA's Title III sources. DC funding

along with Grant Anticipated Revenue Vehicle (GARVEE) bonds make up most of the rest of the program total. In the District, GARVEE bonds are only being used to pay for part of the South Capitol Street Corridor project. DDOT's inputs to the FY 2019-2024 TIP match their FY 2018-2021 STIP.

Table 5 shows funding in suburban Maryland for fiscal years 2019 through 2022. At the request of FHWA, the FY 2023 and FY 2024 columns have been omitted from the Maryland TIP tables and financial summaries. Maryland's financial summary tables are also divided up between MDOT agencies: State Highway Administration (SHA), Maryland Transit Administration (MTA), and the Maryland Transportation Authority (MdTA), and the TPB member counties: Charles, Frederick, Montgomery, and Prince George's. Just under half of MDOT's four-year program total of \$3.1 billion comes from federal sources. Title I funding amounts for SHA projects are programmed without state and local matching formulas, so the federal amounts shown equal the total amounts and the matching funds are included in the State/Local grouping underneath the Title III group. MDOT's inputs to the FY 2019-2024 TIP match their FY 2019 – FY 2024 CTP.

Table 6 shows \$865 million in funding programmed in Northern Virginia, with just under half of that - \$400 million – from federal sources. VDOT's inputs to the FY 2019-2024 TIP are derived from its FY 2018-2021 STIP. While the first two years of the TIP are programmed and verified, the limited three-year overlap makes for an incomplete picture of funding in Northern Virginia at the time of this analysis.

In contrast, **Table 7** shows almost \$8.5 billion in funding programmed by WMATA between FY 2019 and FY 2024. About \$3 billion of this comes from FTA Title III sources and matching funds, but the bulk of it – more than \$5 billion – comes from state and local contributions, including the new, long-term dedicated funding stream from the District of Columbia, Maryland and Virginia in the amount of \$500 million per year.

Table 4: FY 2019-2024 Financial Summary for the National Capital Region

Funds shown in \$ millions.

Source	2019		2020		2021-2022		2023-2024		2019-2024	
	Federal	Total	Federal	Total	Federal	Total	Federal	Total	Federal	Total
Title I - FHWA										
Demo	1.02	1.27							1.02	1.27
CMAQ	30.73	36.64	37.52	45.76	49.99	61.06	26.03	31.67	144.26	175.12
FLAP	0.00	0.00							0.00	0.00
HPP	4.19	4.19	4.60	4.60	6.00	6.00			14.79	14.79
HBRRP	14.96	38.56	5.83	15.42	8.52	10.78	1.26	2.72	30.56	67.48
HSIP	19.09	20.77	17.18	18.41	31.56	33.87	23.74	25.84	91.57	98.89
NHFP	6.24	6.24	5.99	5.99	10.55	10.55			22.77	22.77
NHPP	295.95	316.37	228.39	239.78	370.91	408.52	269.89	303.81	1,165.14	1,268.47
RSTP	20.04	25.05	9.82	12.28	4.70	5.88			34.57	43.21
SPR	4.78	5.98	4.78	5.98	9.32	11.65	6.84	8.55	25.72	32.15
STIC	0.10	0.13	0.10	0.13	0.20	0.25	0.20	0.25	0.60	0.75
STBG	243.92	270.61	246.91	266.54	292.43	318.70	228.08	261.39	1,011.35	1,117.24
TAP	1.44	1.80	1.72	3.40	3.68	4.60	1.72	3.45	10.38	13.25
Title I - FHWA Total:	642.45	727.59	562.84	618.27	787.86	871.85	557.75	637.68	2,550.90	2,855.39
Title III - FTA										
Section 5303	0.33	0.42	0.33	0.42					0.66	0.83
Section 5304	0.54	0.68	0.09	0.11					0.63	0.79
Section 5307	187.68	239.55	191.14	241.67	359.98	456.49	314.70	393.38	1,053.51	1,331.09
Section 5309	116.00	145.00	116.00	145.00	232.00	290.00			464.00	580.00
Section 5310	3.31	3.48	2.83	2.83	6.14	6.31			12.28	12.63
Section 5311	0.74	1.44	0.74	1.44	1.49	2.89			2.97	5.78
Section 5337	181.96	231.94	191.57	240.59	353.62	442.02	327.92	409.91	1,055.07	1,324.47
Section 5339 (a)	10.05	12.56	2.42	3.03	12.95	16.19			25.42	31.78
Section 5333 (b)	3.60	4.50	11.32	14.16	11.32	14.16	22.65	28.31	48.90	61.12
Section 5339 (c)	3.52	4.40							3.52	4.40
PRIIA	148.5	297	148.5	297					297.00	594.00
ARRA/TIGER	2.60	10.00							2.60	10.00
Title III - FTA Total:	658.83	950.97	664.96	946.25	977.50	1,228.05	665.28	831.60	2,966.56	3,956.87
State/Local										
Local		795.05		741.67		2,073.20		2,302.55		5,912.47
NVTA		45.64		9.11		12.10				66.85
State/District Funding		329.59		443.28		891.27		177.34		1,841.47
State/Local Total:		1,170.28		1,194.06		2,976.57		2,479.88		7,820.79
Other										
AC	36.56	40.89	51.91	57.49	19.34	22.37			107.81	120.74
ACC	44.75	51.27	56.22	65.63	27.60	30.35			128.57	147.25
DOD - OEA	4.91	4.91	5.97	5.97	4.04	4.04			14.91	14.91
GARVEE	128.00	160.00	53.25	66.56	54.53	68.16			235.77	294.72
NPS	0.20	0.25							0.20	0.25
NRT	0.25	0.30	0.25	0.30	0.50	0.60	0.25	0.30	1.25	1.50
P3		17.330		17.330		34.66				69.32
PRIV		1.50		23.37		173.50				198.37
WIP		30.49		46.12		100.43		16.53		7.00
Other Total:	214.67	306.93	167.60	282.77	105.99	434.09	0.25	16.83	488.51	1,040.62
Regional Total:	1,515.95	3,155.76	1,395.39	3,041.36	1,871.35	5,510.56	1,223.28	3,965.99	6,005.97	15,673.67

See [Appendix C](#) for explanations of all funding sources.

Table 5: FY 2019-2024 Financial Summary for the District of Columbia

Funds shown in \$ millions.

Source	2019		2020		2021-2022		2023-2024		2019-2024	
	Federal	Total	Federal	Total	Federal	Total	Federal	Total	Federal	Total
Title I - FHWA										
CMAQ	8.36	10.45	21.23	26.54	7.51	9.39	7.05	8.81	44.15	55.19
FLAP	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
HSIP	13.75	15.30	12.32	13.47	24.97	27.27	19.06	21.16	70.08	77.19
NHFP			0.11	0.14	0.11	0.14			0.22	0.28
NHPP	100.79	120.33	105.49	121.33	196.63	234.14	120.29	143.76	523.19	619.57
SPR	4.78	5.98	4.78	5.98	9.32	11.65	6.84	8.55	25.72	32.15
STIC	0.10	0.13	0.10	0.13	0.20	0.25	0.20	0.25	0.60	0.75
STBG	92.90	111.31	98.64	118.23	129.20	154.64	102.75	123.59	423.49	507.76
TAP	1.12	1.40	2.72	3.40	3.68	4.60	2.76	3.45	10.28	6.90
Title I - FHWA Total:	221.79	264.89	245.38	289.20	371.62	442.08	258.94	309.58	1,097.73	1,299.80
Title III - FTA										
Section 5303	0.33	0.42	0.33	0.42					0.66	0.83
Section 5304	0.54	0.68	0.09	0.11					0.63	0.79
Title III - FTA Total:	0.87	1.09	0.42	0.53					1.29	1.62
State/Local										
District Funds		143.78		217.41		62.98		46.79		470.95
State/Local Total:		143.78		217.41		62.98		46.79		470.95
Other										
GARVEE	128.00	160.00	53.25	66.56	54.53	68.16			235.77	294.72
NPS	0.20	0.25							0.20	0.25
NRT	0.25	0.30	0.25	0.30	0.50	0.60	0.25	0.30	1.25	1.50
Other Total:	128.45	160.55	53.50	66.86	55.02	68.76	0.25	0.30	296.47	296.47
Grand Total:	351.11	570.31	299.30	573.99	426.64	573.81	259.19	356.67	1,336.25	2,074.78

See [Appendix C](#) for explanations of all funding sources.

Table 6: FY 2019-2024 Financial Summary for Suburban Maryland

Funds shown in \$ millions.

MDOT SHA/MdTA/MTA Source	2019		2020		2021-2022		2019-2022	
	Federal	Total	Federal	Total	Federal	Total	Federal	Total
Title I - FHWA								
CMAQ	7.09	7.09	4.59	4.59	5.69	5.69	17.37	17.37
HPP	4.19	4.19	4.60	4.60	6.00	6.00	14.79	14.79
HSIP	4.18	4.18	4.18	4.18	6.52	6.52	14.87	14.87
NHFP	6.24	6.24	5.99	5.99	10.55	10.55	22.77	22.77
NHPP	168.88	168.88	144.88	144.88	142.12	142.12	455.88	455.88
STBG	119.86	119.86	119.91	119.91	130.44	130.44	370.21	370.21
Title I - FHWA Total:	310.43	310.43	284.14	284.14	301.31	301.31	895.89	895.89
Title III - FTA								
Section 5307	24.30	33.74	19.55	27.79	42.72	60.12	86.57	121.65
Section 5309	116.00	145.00	116.00	145.00	232.00	290.00	464.00	580.00
Section 5310	0.47	0.65			0.47	0.65	0.95	1.30
Section 5311	0.74	1.44	0.74	1.44	1.49	2.89	2.97	5.78
Section 5337	14.98	18.73	19.41	24.27	25.08	31.35	59.47	74.34
ARRA/TIGER	2.6	10					2.60	10.00
Title III - FTA Total:	159.10	209.56	155.70	198.51	301.75	385.00	616.56	793.06
State/Local Funds								
State		250.42		330.23		720.12		1,300.78
Local		20.71		3.69		4.25		28.65
State/Local Total:		271.13		333.92		724.37		1,329.42
Other Funds								
DOD - OEA	4.91	4.91	5.97	5.97	4.04	4.04	14.92	14.91
P3		17.33		17.33		34.66		69.32
Other Total:	4.91	22.24	5.97	23.30	4.04	38.70	14.92	84.23
MDOT Total:	474.44	813.36	445.82	839.87	607.10	1,449.37	1,527.36	3,102.61
Charles, Frederick, Montgomery and Prince George's Counties								
Title I - FHWA								
HRRRP	14.96	38.56	5.83	15.42	8.52	10.78	29.31	64.76
Title III - FTA								
Section 5307	1.60	1.60	1.60	1.60			3.20	3.20
Section 5339(c)	3.52	4.40					3.52	4.40
State/Local/Private Funds								
State and Local		239.05		224.39		126.19		589.63
PRIV		1.5		1.5		3		6.00
Maryland Counties Total:	20.07	285.10	7.43	242.92	8.52	139.97	36.02	667.99
Suburban Maryland Total:	494.51	1,098.46	453.25	1,082.79	615.62	1,589.34	1,563.38	3,770.60

See [Appendix C](#) for explanations of all funding sources.

Table 7: FY 2019-2024 Financial Summary for Northern Virginia

Funds shown in \$ millions.

Source	2019		2020		2021-2022		2023-2024		2019-2024	
	Federal	Total	Federal	Total	Federal	Total	Federal	Total	Federal	Total
Title I - FHWA										
CMAQ	12.22	15.28	7.53	9.41	14.48	18.11	9.94	12.42	44.17	55.21
DEMO	1.02	1.27							1.02	1.27
HSIP	1.17	1.30	0.69	0.77		0.09			1.85	2.15
NHPP	7.47	7.66	12.52	13.62		2.09			19.99	23.37
RSTP	20.04	25.05	9.82	12.28		5.88			29.86	43.21
STBG	41.50	52.10	30.89	31.45		28.75			72.39	112.29
TAP	0.32	0.40							0.32	0.40
Title I - FHWA Total:	83.74	103.06	61.44	67.52	14.48	54.91	9.94	12.42	169.60	237.90
Title III - FTA										
Section 5307	10.78	15.46	4.72	5.69		2.99			15.50	24.14
Section 5339	1.62	2.03	1.62	2.03		2.03			3.25	6.09
Section 5337	21.47	31.33	8.20	11.37		0.77			29.66	43.47
Title III - FTA Total:	33.87	48.82	14.54	19.09		5.79			48.41	73.70
State/Local Funds										
Local Funds		5.14		0.01		19.33				24.48
NVTA		45.64		9.11		12.10				66.85
State Funds		5.55		0.05		7.40				13.00
State/Local Total:		56.32		9.18		38.83				104.33
Other Funds										
AC	33.07	37.39	49.97	55.55		20.33			83.04	113.27
ACC	44.75	51.27	54.66	64.07		28.89			99.41	144.23
PRIV				21.87		170.50				192.37
Other Total:	77.82	88.66	104.63	141.49		219.72			182.45	449.88
Virginia Total:	195.43	296.86	180.62	237.28	14.48	319.25	9.94	12.42	400.46	865.81

See [Appendix C](#) for explanations of all funding sources.

Table 8: FY 2019-2024 Financial Summary for the Washington Metropolitan Area Transit Authority

Funds shown in \$ millions.

Source	2019		2020		2021-2022		2023-2024		2019-2024	
	Federal	Total	Federal	Total	Federal	Total	Federal	Total	Federal	Total
Title I - FHWA										
CMAQ		7.40	3.60	4.50	8.56	10.70	5.60	7.00	17.76	29.60
Title I - FHWA Total:		7.40	3.60	4.50	8.56	10.70	5.60	7.00	17.76	29.60
Title III - FTA										
Section 5307	151.00	188.75	165.27	206.59	314.70	393.38	314.70	393.38	945.68	1182.10
Section 5337	145.51	181.89	163.96	204.95	327.92	409.91	327.92	409.91	965.32	1206.65
Section 5339 (a)	8.42	10.53				14.16			8.42	24.69
Section 5339 (b)	3.60	4.50	11.32	14.16		14.16	22.65	28.31	37.57	61.12
PRIIA	148.50	297.00	148.50	297.00					297.00	594.00
Title III - FTA Total:	457.04	682.67	489.06	722.70	642.63	831.60	665.28	831.60	2,254.00	3,068.57
State/Local										
		530.65		514.65		1,924.28		2,220.16		,5189.73
State/Local Total:		530.65		514.65		1,924.28		2,220.16		5,189.73
Other Funds										
WIP		30.49		46.12		100.43		16.53		193.56
Other Funds Total:		30.49		46.12		100.43		16.53		193.56
Grand Total:	457.04	1251.20	492.66	1287.97	651.19	2867.00	670.88	3075.28	2271.76	8,481.45

See [Appendix C](#) for explanations of all funding sources.

5. SUMMARY AND ANALYSIS OF PROJECTS

There are approximately 300 project records in the FY 2019-2024 TIP. Of those, 179 are location or corridor specific projects, while the balance are either groupings of smaller, non-regionally significant projects or are jurisdiction or sub-area-wide ongoing projects. **Table 8** provides an at-a-glance look at some of the big-ticket projects across the region in the TIP. **Table 9** shows how the funding in the TIP breaks down across facility types and modes.

Table 9: Major Project Costs in the FY 2019-2024 TIP

Project Title	TIP ID	Total Cost	FY 19-24 Program	Complete
District of Columbia				
South Capitol Street Corridor	3423	\$554 M	\$419 M	2024
Union Station to Georgetown Premium Transit	5755	\$348 M	\$1 M	2026
H Street Bridge over Railroad	6039	\$220 M	\$211 M	2025
Suburban Maryland				
I-495 and I-270 Traffic Relief Plan	6432	\$7.6 B	\$129 M	2025
Purple Line	2795	\$2.4 B	\$788 M	2022
Governor Harry Nice Bridge Improvement Project	5527	\$769 M	\$555 M	2023
MD 210 Corridor Study	6524	\$456 M	\$8 M	2040
Northern Virginia				
I-395 Express Lanes Northern Extension	6593	\$462 M	\$159 M	2020
I-66 Inside the Beltway Initiatives	6544	\$125 M	\$16 M	2040

Table 10: Funding for the National Capital Region by Project Type

Project Type	District of Columbia		Suburban Maryland		Northern Virginia		Regional Total	
	FY 19	FY 19-24	FY 19	FY 19-24	FY 19	FY 19-24	FY 19	FY 19-24
Interstate	1.54	57.11	83.56	295.04	10.91	25.31	113.90	490.32
Primary	205.00	532.09	115.26	753.43	75.03	258.42	395.28	1,547.50
Secondary	22.91	54.14	139.30	388.29	29.31	165.63	186.02	671.92
Urban					4.82	8.95	4.82	9.19
Federal Lands						4.43		4.43
Bridge	90.36	220.69	20.20	36.34	2.86	14.91	46.92	300.68
Roadways:	319.81	864.04	358.32	1,473.10	122.92	477.64	746.94	3,024.03
Transit:	23.25	212.05	304.20	1,020.61	88.08	129.18	1,661.86	9,838.47
Bike/Ped:	3.00	33.41	51.26	131.05	3.57	3.57	57.82	187.51
Maintenance/Other:	224.56	965.59	384.69	1,145.84	82.30	255.42	689.14	2,623.47
Total Funds:	570.61	2,075.09	1,098.46	3,770.59	296.86	865.81	3,155.76	15,673.47

Complete Streets Documentation

On May 16, 2012, the TPB approved resolution R15-2012, approving the Complete Streets Policy for the National Capital Region. Section IV, Documentation and Reporting, in that policy states that “implementation of member jurisdiction and agency Complete Streets policies will be documented in the regional Transportation Improvement Program.” Every submitting agency reported that their jurisdiction had a Complete Streets policy. Responses were only provided for 15 records at the time of this draft analysis. TPB staff are following up with implementing agencies to achieve a higher response rate.

Table 11: Projects That Advance Complete Streets Goals

TIP ID	Project Title
District of Columbia	
6636	Bus Priority Plan and Program
Suburban Maryland	
6367	Addison Road I
6375	Bus Mass Transit/Metro Access 2
6365	Montgomery County Bicycle and Pedestrian Priority Area Improvements
6364	Montgomery County Transportation Improvements for Schools
6369	Prince George’s County Cherry Hill Road III
6372	Street Lights and Traffic Signals 2
6373	Traffic Congestion Improvements
6397	US 29 BRT
Northern Virginia	
6542	Embark Richmond Highway Comprehensive Plan

Bicycle and Pedestrian Accommodations

The TPB has set a goal to increase the rate of construction of bicycle and pedestrian facilities in the region. Of the 300 TIP projects, 28 are identified as being “primarily a bicycle and/or pedestrian project.” Of those 28, about half are project groupings or area-wide programs. In total, the region currently has \$187 million programmed for bicycle and pedestrian projects, almost a third of that (\$58 million) is programmed in the first year of the FY 2019-2024 TIP. **Table 11** summarizes the funding for projects in the TIP that are identified exclusively as bicycle and/or pedestrian projects around the region.

Table 12: Funding for Bicycle and Pedestrian Projects Around the Region

	2019	2019-2024
District of Columbia (9 projects)	\$ 3 M	\$51 M
Suburban Maryland (17 projects)	\$51 M	\$133 M
Northern Virginia (2 projects)	\$4 M	\$4 M
Regional Total:	\$58 M	\$188 M

This does not provide a complete picture of the region’s planned investments in bicycle and pedestrian infrastructure, however. Many roadway and transit projects include accommodations for cyclists and/or pedestrians, and it can be difficult to parse out the cost of those accommodations from the total project cost. In this TIP, 29 projects are reported to include some type of bicycle or pedestrian accommodations. These projects are marked with a bicycle icon (🚲) next to their descriptions in **Appendix A**. After projects are completed, the new facilities are then included as part of the TPB’s existing system inventory.

6. PERFORMANCE-BASED PLANNING AND PROGRAMMING

This is the first TIP where Performance-Based Planning and Programming (PBPP) activities will be reflected per the federal requirements of MAP-21 and the FAST Act. MAP-21, signed into law in 2012, placed increased emphasis on performance management within the Federal-aid highway program, including development of national performance measures to be used by State DOTs and MPOs in setting targets. The law specifically calls for the use of performance-based decision-making by integrating performance management concepts into the existing federally-required transportation planning and programming processes. The performance measures and targets summarized here will provide a baseline for comparison with future TIPs. At this time, the TPB has approved targets for 21 out of 25 measures, and this analysis will reflect information on those measures. For more information on these measures, targets and the region’s transportation system performance, please see the System Performance Report which can be found in [Appendix D of the Visualize 2045 document](#).

Highway Safety Performance

The Highway Safety Performance Measures pertain to both the national and regional objective of reducing the instances of serious injuries or death on roadways. Highway Safety consists of five performance measures, listed in **Table 13**, that were adopted by the TPB in January 2018.

Table 13: Summary of Regional Highway Safety Performance Measures and Targets

	2012-2016 Actual	2014-2018 Target	Difference	Percent Difference
# of Fatalities	266.2	253.0	▼ 13.2	▼ 4.9%
Fatality Rate (per 100 MVMT)	0.621	0.588	▼ 0.033	▼ 5.3%
# of Serious Injuries	2,967.4	3,007.3	▲ 39.9	▲ 1.3%
Serious Injury Rate (per 100 MVMT)	6.879	6.678	▼ 0.111	▼ 1.6%
# Non-motorist Fatalities and Serious Injuries	545.6	528.8	▼ 16.8	▼ 3.1%

Table 14 contains information on the regional TIP projects that will be implemented to assist in achieving the listed targets involving highway safety. Funds from the Federal Highway Administration’s Highway Safety Improvement Program (HSIP) have been programmed on 11 projects in the FY 2019-2024 TIP, totaling \$91.6 million. Please note that while these federal requirements are meant to specifically track the federal funding contribution to these types of projects, there are other projects that do not use federal funding but do support the safety outcomes that the TPB is specifically looking to achieve.

Table 14: HSIP Funded Projects in the FY 2019-2024 TIP

TIP ID	Project Name	FY19	FY20	FY19-24
District Department of Transportation				
2633	Size and Weight Enforcement Program	\$1,800		\$1,800
3212	Safety Improvements Citywide	\$8,550	\$8,550	\$49,545
3216	Traffic Operations Improvements Citywide	\$1,710	\$1,800	\$10,710
5315	Blair / Cedar / 4th Street NW	\$1,125		\$1,125
5316	Impact Attenuators and Guiderails		\$1,967	\$6,344
6315	East Capitol Street Corridor Mobility & Safety Plan	\$360		\$360
6503	Construction of Fiber Communication Network on Freeways	\$200		\$200
Maryland Department of Transportation/State Highway Administration				
3038	Areawide Environmental Projects	\$459	\$459	\$2,106
3082	Areawide Resurfacing and Rehabilitation	\$1,827	\$1,827	\$8,262
3084	Areawide Safety and Spot Improvements	\$1,890	\$1,890	\$9,180
Virginia Department of Transportation				
5506	TIP Grouping project for Construction: Safety/ITS/Operational Improvements	\$1,166	\$689	\$1,934
Regional Totals		\$19,087	\$17,182	\$91,566

Pavement and Bridge Condition Performance

This section provides information on the performance measures concerning the condition of bridges and pavements within the Washington metropolitan planning area. The region's infrastructure is a critical component of economic development and increased livability. As stated in the TPB Vision and reaffirmed by Priority 1 in the Regional Transportation Priorities Plan, the TPB encourages all jurisdictions to strive towards maintaining infrastructure in a state of good repair. **Table 15** lists four performance measures and targets for pavement conditions and **Table 16** lists two measures and targets for bridge conditions that were adopted by the TPB in July 2018. For more information on these performance measures and targets, please see the System Performance Report in [Appendix D of the Visualize 2045 document](#).

Funds from the Federal Highway Administration's Highway Bridge Replacement and Rehabilitation Program (HBRRP) have been programmed on 15 projects in the FY 2019-2024 TIP, totaling \$34 million. Please note that while these federal requirements are meant to specifically track the federal funding contribution to these types of projects, there are other projects that do not use federal funding that also support the safety outcomes that the TPB is specifically looking to achieve.

Table 15: Summary of Regional Pavement Condition Measures and Targets

Interstate	CY 2018 – 2021 Four Year Target
(1) Percentage of Pavements on the Interstate System in Good Condition	52.7%
(2) Percentage of Pavements on the Interstate System in Poor Condition	1.7%
NHS (Non-Interstate)	CY 2018 – 2021 Four Year Target
(3) Percentage of Pavements on the NHS (excl. Interstate) in Good Condition	31.1%
(4) Percentage of Pavements on the NHS (excl. Interstate) in Poor Condition	7.0%

Funds from the National Highway Performance Program (NHPP) have been programmed on 61 projects in the FY 2019-2024 TIP totaling \$1.2 million. Not all 61 projects will necessarily support pavement and bridge conditions. In addition to those that improve pavement and bridge conditions on the National Highway System (NHS), many other types of projects are eligible for NHPP funding, including (but not limited to) some of the following:

- Bicycle transportation and pedestrian walkways
- Highway safety improvements on the NHS
- Capital and operating costs for traffic and traveler information
- Infrastructure-based ITS capital improvements.
- Environmental mitigation related to NHPP projects.
- Installation of vehicle-to-infrastructure communication equipment

For a complete list of NHPP-eligible project types, see FHWA’s NHPP fact sheet at:

<https://www.fhwa.dot.gov/fastact/factsheets/nhppfs.cfm>

Table 16: Summary of Regional Bridge Conditions, Measures & Targets

Bridges	CY 2018 – 2019 Two Year Target	CY 2018 – 2021 Four Year Target
(5) Percentage of NHS Bridges Classified as in Good Condition	27.1%	29.4%
(6) Percentage of NHS Bridges Classified as in Poor Condition	5.2%	3.9%

Highway System Performance

This section contains information on the overall performance of the National Highway System (NHS), Interstate System (IS) and Freight Movement; collectively known as Highway System Performance. A summary of performance measures associated with this area are listed in **Table 17**.

Table 17: Summary of the Highway System Performance Measures

	Performance Measures
National Highway System	(1) Interstate (IS) Travel Time Reliability (TTR) – Percent of person-miles traveled on the Interstate System that are reliable
	(2) NHS (Non-Interstate) TTR – Percent of person-miles traveled on the non-Interstate NHS that are reliable
Freight Movement	(3) Freight Reliability Truck Travel Time Reliability (TTTR) – Percent of the Interstate System Mileage providing for Reliable Truck Travel Times

The TPB adopted the Highway System Performance measures and targets listed in **Table 18** in July 2018. The TPB encourages every jurisdiction in the region to adopt similar goals of making reliability improvements to roadways and calls on the transportation agencies of the region to redouble their efforts to develop projects, programs and policies to achieve increased reliability on roadways. More information on these measures and targets can be found in the System Performance Report in [Appendix D of the Visualize 2045 document](#).

Table 18: Regional Travel Time Reliability & Truck Travel Time Reliability Measures & Targets

	CY 2018 – 2021 Four Year Target
TTR – Interstate Percent of person-miles traveled on the Interstate System that are reliable	58.5%
TTR – Non-Interstate NHS Percent of person-miles traveled on the non-Interstate NHS that are reliable	72.7%
TTTR Index Ratio of the Interstate System Mileage providing for Reliable Truck Travel Times	2.12

There is no federal funding source directly tied to travel-time reliability on Interstate and National Highway System facilities. Funds from the National Highway Freight Program (NHFP) are programmed on three projects in the FY 2019-2024 TIP for a total of \$22.8 million. There are other projects with non-federal funding sources that should also improve freight movement in the region.

Congestion Mitigation and Air Quality Program Performance

This section contains information of the performance of the Congestion Mitigation and Air Quality Program (CMAQ) measures. **Table 19** provides a summary of each of the performance measures. More detailed information concerning the CMAQ Program, the performance measures, details concerning CMAQ projects, and programming for the states of Virginia, Maryland, and the District of Columbia, can be found in [Appendix D – System Performance Report](#).

Table 19: Summary of Congestion Mitigation and Air Quality Program Performance Measures

CMAQ Program	Performance Measures
Traffic Congestion	Peak Hour Excessive Delay – Annual hours of peak hour excessive delay per capita
	Mode Share – Percent of Non-SOV Travel on the NHS
Emissions Reduction	Emissions – CMAQ-funded projects on-road mobile source total emissions reduction for each applicable criteria pollutant and precursor

The TPB adopted CMAQ Performance Measures and targets in June 2018. **Tables 20 and 21** illustrate the regional traffic congestion and emission reduction targets.

Table 20: Regional Traffic Congestion Measures and Targets

Performance Measures for the Washington DC-MD-VA urbanized area	CY 2018 – 2019 Two Year Target	CY 2018 – 2021 Four Year Target
Peak Hour Excessive Delay (PHED)	Not Required	26.7 Hours
Mode Share (Non-SOV)	36.9%	37.2%

Table 21: Regional Emissions Reduction Measure and Targets

	Type of Emissions	FFY 2018 – 2019 Two Year Target	FFY 2018 – 2021 Four Year Target
Total Emissions Reduction for the TPB portion of the Washington DC-MD-VA nonattainment area	Volatile Organic Compounds (VOCs)	1.838 Kg/Day	2.195 Kg/Day
	Nitrogen Oxides (NOx)	4.019 Kg/Day	4.703 Kg/Day

CMAQ funding is programmed on 25 projects in the FY 2019-2024 TIP in the amount of \$144.3 million.

Transit Asset Management Performance

This section presents the transit asset management (TAM) performance measures and targets adopted by the TPB in May 2017. **Table 22** provides a summary of the performance measures designated as TAM. For more information on TAM measures and targets, see the System Performance Report in [Appendix D of the Visualize 2045 document](#).

Table 22: Transit Asset management Performance Measures

	Performance Measure	Asset Classes
Rolling Stock (Age)	Percentage of revenue vehicles within a particular asset class that have met or exceeded useful life benchmark (ULB).	40-foot bus, 60-foot bus, vans, automobiles, locomotives, rail vehicles
Equipment – (non-revenue) service vehicles (Age)	Percentage of vehicles that have met or exceeded their ULB.	Cranes, prime movers, vehicle lifts, tow trucks
Infrastructure-rail fixed-guideway track, signals, and systems (Condition)	Percentage of track segments, signal, and systems with performance restrictions.	Signal or relay house, interlockings, catenary, mechanical, electrical and IT systems
Stations/Facilities (Condition)	Percentage of facilities within an asset class, rated below 3 on the TERM scale.	Stations, depots, administration, parking garages, terminals

The nine reporting entities for provision of public transportation provided their targets to the TPB, as shown in **Table 23**. The targets for the metropolitan planning region are presented in tabular form to account for the differences in targets and standards among the providers of public transportation. Targets are the threshold for the maximum percentage of assets at or exceeding acceptable standards. In most cases for the 2017 target-setting process, providers set targets that are approximately equivalent to their current performance. In future years, TPB staff will work with the providers of public transportation to collate performance.

Table 23: Regional Transit Asset Management Measures & Targets

Reporting Entity	Rolling Stock	Service Vehicles	Rail Infrastructure	Station/Facility Condition
WMATA	1% Rail, 3% Bus	15% ^{c, d}	5%	32%
DDOT	0% Rail, 40% Bus	20% ^c	5%	20%
Fairfax County	10%	14% ^e	n/a	0%
Montgomery County	8% ^a	50% ^{c, d}	n/a	0%
Prince George's County	0%	18% ^d	n/a	0%
PRTC	46% ^b	50% ^c	n/a	0%
VRE	0% Rail	50% ^e	n/a	0%
Maryland Tier 2 (MTA)	24% ^a	31% ^d	n/a	25% ^f
Virginia Tier 2 (DRPT)	20%	Not reported	n/a	20%

a: heavy-duty buses; b: 45-foot buses; c: autos; d: trucks; e: service vehicles; f: maintenance/administrative facilities

There are 31 projects in the FY 2019-2024 TIP with \$2.457 billion in §5307, §5309, §5311, §5337, §5339, and CMAQ funding that specify the maintenance or replacement of transit assets.

APPENDIX A
FY 2019-2024 TIP PROJECT TABLES

Introduction to Project Listings

The first and second years of the program contain a priority listing of those projects selected for funding. Each transportation improvement project must be included in the first or second year at key stages in its implementation (preliminary engineering, right-of-way acquisition, and construction) as a basis and condition for all federal funding assistance. This includes all FAST Act funding under Title I (Surface Transportation) and Title III (Transit) to state, local, and regional implementing agencies for highway, transit, bicycle and pedestrian capital improvements and transit operating assistance. Projects are grouped according to the agency or jurisdiction responsible for implementation.

A series of codes and notes are provided to indicate the funding sources and which phases of the projects are planned for implementation. Identification of the funding source is for programming purposes only and does not necessarily represent approval from the appropriate federal agency. Projects may appear in programs at various times: when applications for federal funds are made for preliminary engineering, right-of-way acquisition, construction, study or other. Codes for these phases are defined at the bottom of each page. Definitions of the funding source codes are defined in Appendix D of this document. A guide to reading the elements in each project listing is included in Figure 3.

Figure 1: How to Read TIP Records

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3423 Agency ID: AW011, AW024 Title: South Capitol Street Corridor Total Cost: \$654,172									e
Facility: DEMO 80/20/0 103,918 c									
From: N St, MLK Ave, Suttland Pkwy, Memorial Bridge									
To: GARVEE 80/20/0 132,960 c 160,000 c 66,560 c 68,157 c 294,717 m									
NHPP 80/20/0 24,800 c									
State 0/100/0 104,740 c 41,000 c 83,866 c 124,866									
Total Funds:									419,583 n

g Description: Redevelopment of the South Capitol Street corridor is a part of the Anacostia Waterfront Initiative. Concept plans for the replacement of the Frederick Douglas Memorial Bridge are under development as part of the EIS currently being prepared for the corridor.

a New Frederick Douglass Memorial Bridge: Full replacement and realignment of the Frederick Douglass Memorial Bridge.
 b Reconfigure the interchange at Suttland Parkway and I-295. The improvements include the removal of existing cloverleaf ramps at the interchange, replacing them with a diamond interchange. The diamond interchange will include two at-grade signalized intersections, one at the I-295 northbound ramps and the other at I-295 southbound ramps.
 c Reconfigure the interchange at Martin Luther King Jr. Ave. and Suttland Parkway. The existing MLK Jr. Bridge over Suttland Parkway will be replaced and a center ramp signalized interchange will be created to allow full movements to and from Suttland Parkway to MLK Jr. Ave.
 d Boulevard streetscape treatments along South Capitol Street from between N Street and the SE/SW Freeway. In this segment, South Capitol Street will be rebuilt as a six-lane boulevard divided by a landscaped median.
 e New Jersey Avenue Streetscape improvements: The streetscape concept will restore a consistent design to the avenue between the SE-SW Freeway and M Street SE.

- a) TIP ID
- b) Agency project ID
- c) Project title
- d) Projected completion date
- e) Total cost of project (beyond 6 years of TIP)
- f) Project facility and limits
- g) Project description
- h) Source code (see Appendix X for details)
- i) Federal funding with state and/or local match
- j) Sum of funds from this source programmed prior to the first year of the TIP
- k) Amount of funds (in \$1,000s) from this source programmed in the Fiscal Year shown
- l) Phase for which this amount is programmed (key shown at bottom of each page)
- m) Sum of funds from this source programmed in the six years of the TIP
- n) Total funds programmed in the six fiscal years of the TIP for project.

All major projects in the TIP come from Visualize 2045. In addition, a number of projects appear in the TIP which are minor in nature and are shown in order to establish eligibility for federal funding assistance. Also, some non-federally funded projects are shown, which are either recommended in the Plan, or are considered regionally significant and important to identify for air quality analysis and informational purposes.

Grouping of Projects

Some projects in the program are considered to be too small in scale for individual identification in the TIP. These types of projects include signalization, traffic engineering, various safety, noise abatement, modernization projects, preventive maintenance and rehabilitation that do not change the use or scale of existing facilities, and certain small-scale highway and transit projects, do not trigger and air quality conformity analysis, and typically require a NEPA Categorical Exclusion or Programmatic Categorical Exclusion. These types of projects are grouped together under type of project, funding source, and programming agency. In February 1994, the TPB approved a set of criteria for grouping projects based upon those project types that are exempt in the EPA air quality conformity regulations.

THE DISTRICT OF COLUMBIA

**DRAFT FOR PUBLIC COMMENT DISTRICT OF COLUMBIA
9/7/2018 FY 2019-2024 TIP PROJECT TYPE INDEX**

Interstate

11th Street Bridges and Interchange Reconstruction

TIP ID: 6613	Agency ID:	Title: I-695 Bridges From I-395 to I-295/DC-295
TIP ID: 3193	Agency ID: CD056A	Title: 11th Street Bridges SE, Replace and Reconfigure
TIP ID: 5554	Agency ID: HTF02A	Title: Garvee Bond Debt Service - 11th Street Bridge SE Replacement

Rehabilitation of I-395 HOV Bridge over Potomac River

TIP ID: 6187	Agency ID: MRR27A	Title: I-395 HOV Bridge over Potomac River
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Primary

Anacostia Waterfront Initiative

TIP ID: 5957	Agency ID: AW0, EW002C	Title: Pennsylvania Ave/Potomac Circle
TIP ID: 5802	Agency ID: CD044A	Title: Program Manager AWI

Bus Only Lane (Planning and Implementation)

TIP ID: 6636	Agency ID:	Title: Bus Priority Plan and Program
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I-66 and Rock Creek Parkway Interchange

TIP ID: 6642	Agency ID:	Title: I-66 and Rock Creek Parkway Ramp Study
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South Capitol Street

TIP ID: 6038	Agency ID:	Title: Garvee Bond Debt Service - South Capitol St
TIP ID: 3423	Agency ID: AW011, AW024	Title: South Capitol Street Corridor

Secondary

Florida Avenue Transportation Study

TIP ID: 6195	Agency ID: ZU033A	Title: Florida Avenue Streetscape
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Reconstruction of Ward II

TIP ID: 6493	Agency ID:	Title: Roadway Reconstruction in Ward II
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Rehabilitation of Eastern Avenue NE from New Hampshire Ave, NE to Whitter Street NW

TIP ID: 6419	Agency ID:	Title: Rehabilitation of Eastern Avenue NE from New Hampshire Ave, NE
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Bike/Ped

Capital Crescent Trail Resurfacing

TIP ID: 6643	Agency ID:	Title: K St and Water St Trail Connection
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District-wide Bicycle and Pedestrian Management Program

TIP ID: 3232	Agency ID: CM064A, ZU0	Title: Bicycle and Pedestrian Management Program
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East Capitol Street Pedestrian Safety Project

TIP ID: 6315	Agency ID: SR086A	Title: East Capitol Street Corridor Mobility & Safety Plan
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Metropolitan Branch Trail

TIP ID: 3228	Agency ID: AF073A, ZU024	Title: Metropolitan Branch Trail
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National Recreational Trails

TIP ID: 2796	Agency ID: AF066A	Title: National Recreational Trails
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DDOT

**DRAFT FOR PUBLIC COMMENT DISTRICT OF COLUMBIA
9/7/2018 FY 2019-2024 TIP PROJECT TYPE INDEX**

Safe Routes to School

TIP ID: **2888** Agency ID: **CM086A** Title: **Safe Routes to School**

Shephards Branch Trail Feasibility Study

TIP ID: **6500** Agency ID: Title: **Shephards Branch Trail**

South Capitol Street Trail

TIP ID: **6114** Agency ID: **ZUT10C** Title: **South Capitol Street Trail**

Bridge

H Street Bridge over Amtrak

TIP ID: **6039** Agency ID: **CD054A** Title: **H Street Bridge over Railroad**

Rehabilitation of 16th St Bridge over Piney Branch Rd, NW (Bridge No. 0022)

TIP ID: **6418** Agency ID: Title: **Rehabilitation of 16th St Bridge over Piney Branch Rd. NW (Bridge**

Roadway and Bridge Improvement on Southern Avenue and Winkle Doodle Branch Bridge

TIP ID: **5353** Agency ID: **ED028A** Title: **Southern Ave SE Improvements**

Enhancement

Transportation Alternatives Program

TIP ID: **3210** Agency ID: **AF049A** Title: **Transportation Alternatives Program**

ITS

Traffic Operations Improvements Citywide

TIP ID: **3216** Agency ID: **OSS07A, CI060** Title: **Traffic Operations Improvements Citywide**

Traffic Signal LED Replacement

TIP ID: **6115** Agency ID: **CI040A** Title: **Traffic Signal LED Replacement**

Other

Asset Condition Assessment

TIP ID: **5323** Agency ID: **MNT06A, SR09** Title: **Condition Assessment**

Cleveland Park Study

TIP ID: **6641** Agency ID: Title: **Cleveland Park Watershed**

TIP ID: **6193** Agency ID: **PM0D7A** Title: **Cleveland Park Streetscape and Drainage Improvement**

Local Sidewalk and Street Improvements Citywide

TIP ID: **6639** Agency ID: Title: **Chestnut St from Western Ave to Oregon Ave NW Sidewalk**

Pavement Markings & Traffic Calming Improvements- Street Sign

TIP ID: **6644** Agency ID: Title: **LED Signage Procurement and Installation**

Planning and Management Systems

TIP ID: **3213** Agency ID: **CAL16C, PM30** Title: **Planning and Management Systems**

TIP ID: **5322** Agency ID: **CM085A** Title: **Environmental Management System**

TIP ID: **3355** Agency ID: **PM086A** Title: **Professional Capacity-Building Strategy**

DDOT

**DRAFT FOR PUBLIC COMMENT DISTRICT OF COLUMBIA
9/7/2018 FY 2019-2024 TIP PROJECT TYPE INDEX**

Roadside Improvements Citywide

TIP ID: 5792	Agency ID: ED0C2A	Title: C Street NE Implementation
TIP ID: 5315	Agency ID: MRR09A	Title: Blair / Cedar / 4th Street NW
TIP ID: 5308	Agency ID: SR070A, ED07	Title: Neighborhood Streetscape Improvements

Roadway Reconstruction Citywide

TIP ID: 6597	Agency ID:	Title: Aspen Street NW Improvements
TIP ID: 6598	Agency ID:	Title: Tenleytown Multi-Modal Access
TIP ID: 2965	Agency ID: SR060A MRR1	Title: Roadway Reconstruction Citywide

Safety Improvements

TIP ID: 3212	Agency ID: CB0, CIO	Title: Safety Improvements Citywide
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Streetscape

TIP ID: 6595	Agency ID:	Title: Pennsylvania Ave NW Streetscape from 17th Street NW to Washing
TIP ID: 2743	Agency ID: ED0B1A	Title: Great Streets - Pennsylvania Ave, SE

Traffic Congestion Mitigation

TIP ID: 6640	Agency ID:	Title: Clean Air Partners
TIP ID: 2945	Agency ID: CM074A	Title: District TDM (goDCgo)

Traffic Signal Maintenance

TIP ID: 5347	Agency ID: CI046A, CI047	Title: Traffic Signal Maintenance
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Urban Forestry Program

TIP ID: 5313	Agency ID: CG311, CG312,	Title: Urban Forestry Program
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TERMs

Transportation Emissions Reduction Measures

TIP ID: 3219	Agency ID: ZU022A	Title: Commuter Connections Program
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Maintenance

Bloomingdale/LeDroit Park Medium Term Flood Mitigation Project

TIP ID: 6190	Agency ID: FLD01	Title: Bloomingdale/LeDroit Park Medium Term Flood Mitigation Project
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Bridge Replacement/Rehabilitation Program

TIP ID: 6596	Agency ID:	Title: Theodore Roosevelt Memorial Bridge
TIP ID: 6427	Agency ID:	Title: Kenilworth Terrace Bridge over Watts Branch
TIP ID: 5298	Agency ID: AF067A	Title: Emergency Transportation Project
TIP ID: 2768	Agency ID: CD014A	Title: Key Bridge NW over Potomac
TIP ID: 3202	Agency ID: CD032C, MNT0	Title: Bridge Design Consultant Services
TIP ID: 5342	Agency ID: CD046A	Title: Approach Bridges to 14th Street Bridge
TIP ID: 5337	Agency ID: CD051A	Title: Replacement of Pedestrian Bridges over Kenilworth Ave
TIP ID: 5316	Agency ID: CD062A	Title: Impact Attenuators and Guidrails

DDOT

DRAFT FOR PUBLIC COMMENT DISTRICT OF COLUMBIA
9/7/2018 FY 2019-2024 TIP PROJECT TYPE INDEX

TIP ID: **3243** Agency ID: **CD062A** Title: **Citywide Consultant Bridge Inspection**

TIP ID: **5433** Agency ID: **PM094A, CD05** Title: **Bridge management Project/AASHTOWARE**

Construction of Fiber Communication Network on Freeways

TIP ID: **6503** Agency ID: Title: **Construction of Fiber Communication Network on Freeways**

Maintenance of Stormwater management / Best Management Ponds

TIP ID: **3242** Agency ID: **CA303C, MNT0** Title: **Maintenance, Rehab and Reconstruction of Stormwater-Hydraulic**

Normanstone/Fulton Street Culvert & LID

TIP ID: **6194** Agency ID: **Temp1315** Title: **Normanstone/Fulton Street Culvert & LID**

Reconstruction of Kennedy Street NW from 16th St NW to Georgia Ave NW

TIP ID: **6501** Agency ID: Title: **Reconstruction of Kennedy Street NW from 16th St NW to Georgia**

Resurfacing Streets and Freeways Citywide

TIP ID: **5339** Agency ID: **SR037A** Title: **Pavement Restoration - NHPP Streets**

TIP ID: **3215** Agency ID: **SR092A** Title: **Federal Aid Pavement Restoration**

Streetlight Asset Mgmt & Streetlight Construction - Federal

TIP ID: **6637** Agency ID: Title: **4th St and P St SW Streetlight upgrade**

TIP ID: **6625** Agency ID: Title: **Citywide Streetlights P3**

TIP ID: **6614** Agency ID: Title: **Pennsylvania Avenue Streetlight Upgrade from 2nd Street SE to Ba**

TIP ID: **5439** Agency ID: **AD017A** Title: **Citywide streetlight construction**

TIP ID: **5385** Agency ID: **AD020A** Title: **Streetlight Asset Mgmt - Federal**

Streetlight Asset Mgmt & Streetlight Construction - Local

TIP ID: **5350** Agency ID: **AD304** Title: **Streetlight Asset Mgmt & Streetlight Construction - Local**

Systems Maintenance

TIP ID: **2699** Agency ID: **CD018A, CD01** Title: **Asset Preservation of Tunnels in the District of Columbia**

TIP ID: **2927** Agency ID: **CD036A, CD04** Title: **Highway Structures Preventive Maintenance and Repairs**

Upgrade and Replacement of Overhead Freeway Signs

TIP ID: **6610** Agency ID: **CFPID170319** Title: **Overhead Freeway Sign Maintenance**

Transit

16th Street NW Transit Priority Implementation

TIP ID: **6638** Agency ID: Title: **16th St. NW Transit Priority**

5303/5304 FTA Program

TIP ID: **6102** Agency ID: Title: **5303/5304 FTA Program**

DC Circulator New Buses for Replacement and Expansion

TIP ID: **6105** Agency ID: Title: **DC Circulator New Buses for Replacement and Expansion**

Streetcar

TIP ID: **5754** Agency ID: **CM080A** Title: **Benning Road Extension**

DDOT

DRAFT FOR PUBLIC COMMENT DISTRICT OF COLUMBIA
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TIP ID: **5755** Agency ID: **STC12A** Title: **Union Station to Georgetown Premium Transit; K Street Transit**

Freight

Planning and Systems Enhancement for Weight Stations

TIP ID: **2633** Agency ID: **CI029A, CI053** Title: **Size and Weight Enforcement Program**

Safety

On-Call Subsurface Pavement Investigation,Engineering

TIP ID: **6502** Agency ID: Title: **Subsurface Investigation & AM Program Support**

DDOT

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 2633 Agency ID: CI029A, CI053 Title: Size and Weight Enforcement Program									Total Cost: \$11,280
Facility: Citywide	HSIP	90/10/0	2,000 c	2,000 c					2,000
From:	NHPP	83/17/0	210 c	180 c	185 c	185 c	190 c	190 c	1,125
To:	STBG	80/20/0	1,350 a 6,130 c 150 e						
Total Funds:									3,125

Description: This project provides trained personnel to enforce size and weight regulations, as well as increase the number of portable scales at Weigh in Motion sites on and off the Federal-aid System. This project will facilitate reducing weight violations and preventing premature deterioration of pavements and structures in the District, and in turn provide a safe driving environment.

- a. Weigh in Motion Maintenance
- b. Truck Size and Weight Program

TIP ID: 2699 Agency ID: CD018A, CD01 Title: Asset Preservation of Tunnels in the District of Columbia									Total Cost: \$66,930	
Facility: Citywide Asset Management of Tunnel	NHPP	90/10/0		1,000 a	175 a	175 a	175 a	175 a	175 a	66,930
From:				12,000 c	10,450 c	10,755 c	18,450 c	5,400 c	8,000 c	
To:										
Total Funds:									66,930	

Description: This initiative provides technical support and supportive services for this performance based contract that enables sustained preventive maintenance, rehabilitation and preservation of all tunnel assets in DDOT inventory system. This principal objectives relative to public safety are the maintenance of automated or natural ventilation system for the explosion of harmful carbon monoxide gas from all tunnels and the provision of an adequate lighting system within each tunnel.

TIP ID: 2743 Agency ID: ED0B1A Title: Great Streets - Pennsylvania Ave, SE									Total Cost: \$21,118
Facility: Pennsylvania Ave. SE	NHPP	83/17/0	118 a	15,000 c					15,000
From: Sousa Bridge									
To: 27th St. SE (west of)	NHPP 1	80/20/0	6,000 a						
Total Funds:									15,000

Description: Conduct traffic assessments and provide public review and comment of proposed streetscape design elements. Conduct environmental assessments. Prepare concept designs, design plans and specifications; construct improvements to sidewalks, curbs, gutters, streets, and tree boxes; replace street trees; and install other streetscape elements. Construct facilities to improve reliability and safety of transit services, including transit lanes; provide bicycle lanes; and improve pedestrian circulation. Phase II will include work on Pennsylvania Ave. SE from the Sousa Bridge to west of 27th St. SE.
A. Pennsylvania Ave and Minnesota Ave SE Intersection Improvements: Project is to improve the roadway pavement, curbs, gutter, and tree boxes, including work to streetscape elements. Project incorporates facilities to improve safety of transit services, transit lanes, provide bicycle lanes and improve pedestrian circulation within the project limits.

DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)


Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 2768 Agency ID: CD014A Title: Key Bridge NW over Potomac									Total Cost: \$28,390
Facility: Key Bridge over Potomac River	NHPP	83/17/0	7,390 c	5,500 c					5,500
From:									
To:	NHPP 1	80/20/0	21,000 c						

Total Funds: 5,500

Description: Rehabilitation of the Key Bridge superstructure and substructure including approach roadway improvements, bike/ped safety improvements, streetlights, and aesthetic lighting.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 2796 Agency ID: AF066A Title: National Recreational Trails									Total Cost: \$2,220
Facility: Citywide	NRT	83/17/0	720 a	300 a	300 a	300 a	300 a	300 a	1,500
From:									
To:									

Total Funds: 1,500


Description: Programs associated with the Recreational Trails Program – a program established to develop and maintain recreational trails and trail-related facilities. Mostly small projects; often grants to local groups. 

Through the D.C. Recreational Trails Program Advisory Committee, the Department of Transportation will provide or grant funding to non-profits to provide the following services for District trails: maintain and restore existing trails; develop and rehabilitate trailside and trailhead facilities and trail linkages; purchase and lease trail construction and maintenance equipment; construct new trails; acquire easements or property for trails; assess trail conditions for accessibility and maintenance; develop and disseminate publications and operate educational programs to promote safety and environmental protection related to trails (including supporting non-law enforcement trail safety and trail use monitoring patrol programs, and providing trail-related training).

- A) Living Classrooms of the National Capital Region
- B) Student Conservation Association

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 2888 Agency ID: CM086A Title: Safe Routes to School									Total Cost: \$11,355
Facility: Safe Routes to School	State	0/100/0		300 c					300
From:									
To:	TAP	80/20/0	250 c	2,250 c	1,151 c	1,151 c	1,151 c		5,953

Total Funds: 6,253

Description: To enable and encourage children, including those with disabilities, to walk and bicycle to school, to make walking and bicycling to school safe and more appealing, and to facilitate the planning, development and implementation of projects that will improve safety, and reduce traffic, fuel consumption, and air pollution in the vicinity of schools. 

Increase walking and bicycling to school and associated safety through planning, engineering, education, and enforcement. Subprojects:

- A. Bicycle and Pedestrian Education
- B. Sidewalk Construction
- C. School Area Planning Assistance

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 2927 Agency ID: CD036A, CD04 Title: Highway Structures Preventive Maintenance and Repairs									Total Cost:	\$49,635
Facility:	NHPP	83/17/0		9,975 c		5,100 c	5,345 c			20,420
From:										
To:	STBG	83/17/0		2,940 c		1,475 c	1,500 a	3,250 c		10,685
							1,520 c			
Total Funds:										31,105

Description: This project provides a two-year base contract with two option years for the performance of preventive maintenance activities and initiating emergency repairs on highway structures on an as needed basis. The work includes concrete deck repair, replacement of expansion joints, repair or replacement of beams, girders and other structural steel, maintenance painting, application of low slump concrete overlays on bridge decks, concrete repair, underpinning and shoring of deficient bridge elements, jacking beams and restoring bearings, repair or replacement of bridge railings, guiderails and fencing, cleaning bridge scuppers and drain pipes, graffiti removal and other miscellaneous repair work on various highway structures.

TIP ID: 2945 Agency ID: CM074A Title: District TDM (goDCgo)									Total Cost:	\$25,556		
Facility: citywide	CMAQ	80/20/0		8,600 a	2,956 a	2,600 a	2,700 a	2,800 a	2,900 a	3,000 a	16,956	
From:												
To:											Total Funds:	16,956

Description: Identify neighborhoods affected by traffic congestion impacts; determine the causes of traffic congestion; and identify alternative construction projects, traffic management strategies, and other transportation improvement strategies to reduce traffic congestion. Also, environmental studies will assess how the proposed construction projects or traffic management studies will impact air and water quality in the District of Columbia. Outreach to residents, employees and visitors about alternative transportation options to special events and attractions. Provide a multi-modal transportation information resource website (www.goDCgo.com). Create a commuter store that sells fare media and provides trip planning assistance. The project includes an annual District program and annual allocations.

- a. District TDM/goDCgo: Encourage sustainable travel by District residents, workers and visitors primarily through goDCgo brand. Includes employer outreach, bikeshare and circulator marketing, special events.
- b. Capital Bikeshare Marketing and Outreach

TIP ID: 2965 Agency ID: SR060A MRR1 Title: Roadway Reconstruction Citywide									Total Cost:	\$73,053
Facility: CITYWIDE	STBG	83/17/0		200 b	3,072 a			20,341 c	42,784 c	73,053
From:										
To:							6,656 c			
Total Funds:										73,053

Description: This project reconstructs streets and highways on the Federal-aid highway system and other streets with poor pavement condition, drainage, or other reconstruction needs. Total roadway reconstruction is required when the highway pavement has reached the end of its useful life and can no longer be resurfaced. Streets must be reconstructed once the base deteriorates or the crown becomes too high, creating an undesirable slope from the center line to each curb. The scope of work includes the removal of deteriorated base and pavement, repairing the sub-base, replacing or reconstructing pavement and base within the roadway area and resetting or reconstructing curbs and sidewalks. Additional work includes the installation of wheelchair ramps, bicycle facilities, safety features and landscaping improvements. Projects include:

- a. Oregon Ave. NW, Military Rd. to Western Ave.
- b. Rehabilitation of Broad Branch NW
- c. Canal Road NW, Chain Bridge to M St.
- d. New Jersey Ave., Mass Ave. to N St.
- e. Florida Ave and 9th St from T St to Barry PI NW Reconstruction

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3193 Agency ID: CD056A Title: 11th Street Bridges SE, Replace and Reconfigure									Total Cost: \$37,500	
Facility: 11th Street Bridge and Interchan	NHPP 1	80/20/0	4,500 a							
From:			31,000 c							
To:	NHPP 2	83/17/0	1,500 a					3,628 c		3,628
Total Funds:										3,628

Description: To replace existing structure with new structures and provide direct access from I-295 to Downtown DC (via I-395). To include work for:
I-695 Bridges, I-395 to I-295/DC-295- Project Management and
I-695 Eastbound D4 Ramp Design

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3202 Agency ID: CD032C, MNT0 Title: Bridge Design Consultant Services									Total Cost: \$13,850	
Facility: CITYWIDE	NHPP	83/17/0		723 a	723 a	723 a	723 a	723 a	878 a	4,493
From:										
To:	STBG	83/17/0		828 a	828 a	828 a	828 a	828 a	873 a	5,013
Total Funds:										9,506

Description: A. Structures and Bridges Engineering Services: Provide engineering services for bridges and structures design, geotechnical or other investigations, surveying, including constructability review.

B. Bridge Design Consultant: Under this contract, the consultant will investigate structural deficiencies encountered during bridge inspections and from observation of DDOT staff. They will propose and design solutions for temporary shoring, structural repair and retrofit, perform structural analyses and rating of bridges, prepare plans, details, special provisions, cost estimates and work orders for construction by the DDOT preventive maintenance contractor.

C. Construction Estimate: Provide support to department with independent cost estimate for construction projects before finalizing the PS and E package for advertisement.

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3210 Agency ID: AF049A Title: Transportation Alternatives Program									Total Cost: \$13,800	
Facility: Citywide	STBG	80/20/0	2,300 a							
From:										
To:	TAP	80/20/0	2,300 a	1,150 c	1,150 c	1,150 c	1,150 c	1,150 c	1,150 c	6,900
Total Funds:										6,900

Description: The TAP or TA Set-Aside is a reimbursable federal aid funding program for transportation-related community projects designed to strengthen the intermodal transportation system. The program aims to expand travel choice, strengthen the local economy, improve the quality of life, and protect the environment by supporting non-traditional projects linked to the transportation system. Projects will be reviewed through a competitive process and selected based upon a number of criteria including the project's expected benefits to the community, feasibility and project readiness, consistency with agency plans and missions, and the sponsor's demonstrated ability to manage a federal-aid project.

- a. Taft Bridge Lion Statue Restoration
- b. Constitution Ave and 18th St NE Crosswalk and Paths Improvement
- c. Jay St NE Smart Bio-retention
- d. Washington Union Station Roman Legionnaires and Interior Restoration
- e. Taft Bridge Lion Statue Restoration

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source		Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 3212 Agency ID: CB0, CI0		Title: Safety Improvements Citywide						Total Cost:		\$75,000	
Facility: Citywide	HSIP	90/10/0		5,350 a	5,350 a	5,350 a	5,350 a	5,350 a	3,750 a	55,050	
From:				4,150 c	4,150 c	4,150 c	4,150 c	4,150 c	3,800 c		
To:	SPR	80/20/0		175 a	175 a	175 a	175 a	175 a	175 a	1,050	
	STBG	83/17/0		1,500 a	2,000 a	1,500 a	1,500 a	2,000 a	1,500 a	10,910	
				160 c	150 c	150 c	300 c	150 c			
Total Funds:									67,010		

Description: Safety improvements provide a safe traveling environment for vehicular traffic, pedestrians and bicycle circulation within the District on Federal-aid and local roads. Work includes elimination or relocation of roadside visual obstructions; elimination or relocation of roadside obstacles; skid resistance resurfacing; modifications to traffic channeling; median replacement; traffic signals, signs, and lighting upgrades; installation of pavement markings to eliminate or reduce accidents; and installation of safety fences at overhead structures. Safety improvements are systematically identified through analyses of accident records, inspections, surveys, and citizen requests. The District maintains an inventory of locations with the highest number of reported accidents. Funding identified to be obligated District-wide as projects are identified.

- a. Crash Database
- b. CCTV Cameras
- c. Pavement Skid Testing
- d. Road Safety Audit Program
- e. Traffic Data Collection and Analysis Services
- f. Traffic Engineering Design
- g. Traffic Safety Construction
- h. Traffic Safety Data Center at Howard University
- i. Traffic Safety Design
- j. Traffic Safety Engineering Support Services
- k. Traffic Sign Inventory Upgrade

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

			Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3213			Agency ID: CAL16C, PM30			Title: Planning and Management Systems					Total Cost: \$55,377	
Facility:	Citywide		CMAQ	80/20/0		50 a	50 a	50 a	50 a	50 a	50 a	300
From:												
To:			SPR	80/20/0		5,600 a 200 c	5,600 a 200 c	5,600 a 50 c	5,600 a 50 c	5,500 a 50 c	2,600 a 50 c	31,100
			STBG	83/17/0		4,600 a 381 c	3,410 a 392 c	2,910 a 404 c	2,950 a 416 c	3,350 a 427 c	2,350 a 427 c	22,017
			STBG 2	100/0/0		3,000 c	2,000 c	3,000 c				8,000
			STIC	80/20/0		125 d	125 d	125 d	125 d	125 d	125 d	750
											Total Funds: 62,167	

- Description:
- a. ADA Compliance
 - b. Anti Idling Campaign
 - c. Asset Inventory and ADA Compliance
 - d. Audit and Compliance
 - e. Civil Rights/EEO Compliance Monitoring Program
 - f. Constructability and Work Zone Safety Review
 - g. DBE On-Line Certification Application Program
 - h. DBE Supportive Services/OJT Supportive Services
 - i. ITS General Support
 - j. Metropolitan Planning
 - k. Research Development and Technology Transfer
 - l. State Planning and Research Program
 - m. STIC Innovation Grant
 - n. Summer Transportation Institute
 - o. Transportation Asset Management Plan

TIP ID: 3215			Agency ID: SR092A			Title: Federal Aid Pavement Restoration					Total Cost: \$76,790	
Facility:	Citywide		STBG	83/17/0		9,300 c	9,523 c	9,752 c	9,986 c	10,225 c	10,471 c	59,257
From:												
To:												
											Total Funds: 59,257	

Description: Citywide pavement and resurfacing/restoration, upgrading of sidewalk, curb and gutter, and wheelchair ramps.

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3216 Agency ID: OSS07A, CI060 Title: Traffic Operations Improvements Citywide								Total Cost:		\$77,059
Facility:	HSIP	90/10/0		1,900 c	2,000 c	2,000 c	2,000 c	2,000 c	2,000 c	11,900
From:										
To:	NHPP	83/17/0		3,600 c		900 c	900 c	900 c		6,300
	STBG	83/17/0		7,069 c	14,809 c	6,150 c	6,195 c	4,000 c	4,000 c	49,843
				1,270 e	1,270 e	1,270 e	1,270 e	1,270 e	1,270 e	
Total Funds:										68,043

Description: This project modifies and improves vehicular and pedestrian traffic control systems, such as traffic signals, channelization, signs, pavement markings, and other traffic control measures on and off the Federal-aid highway system. Includes installation of a variety of traffic engineering devices and construction of nominal geometric alterations. The project will preserve and promote the efficient use of existing city streets through changes in the organization of vehicular and pedestrian traffic flows. Projects include:

- a. ITS On Call Technical Support Services
- b. MATOC - Regional Transportation Operations Management
- c. Traffic Management Center Operations
- d. Thermoplastic Pavement Markings Citywide
- e. Advanced Traffic Management System
- f. Infrastructure Information Technology Support Services
- g. Moveable Barrier System
- h. Implementation of Advanced Traffic Signal Controllers for DC Signal System
- i. Maintenance of Existing Transportation Systems
- j. ITS Maintenance
- k. ITS General Support
- l. ITS System Design Services

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3219 Agency ID: ZU022A Title: Commuter Connections Program								Total Cost:		\$8,357
Facility:	CMAQ	80/20/0		700 a	700 a	700 a	700 a	700 a	700 a	4,200
From:										
To:										
Total Funds:										4,200

Description: The purpose of the Commuter Connections Program is to reduce mobile source emission through the reduction in the number of VMT, and support of other Transportation Control Measures. This project provides funding for Commuter Operations Center, Guaranteed Ride, Home, Marketing, Monitoring and Evaluation, Employer Outreach, and DC Kiosk.

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3228 Agency ID: AF073A, ZU024 Title: Metropolitan Branch Trail									Total Cost:	\$27,932
Facility: Union Station District Line	CMAQ	80/20/0	400 a	500 a	10,240 c					10,740
From:			13,400 c							
To:	DEMO	80/20/0	2,192 a							
			1,200 c							

Total Funds: 10,740

Description: The Metropolitan Branch Trail project will provide a 6.25-mile bicycle/pedestrian trail from Union Station north to the District Line along the railroad right-of-way. This trail will connect at the District line with a route continuing into Silver Spring MD. This project is intended to serve both recreational users and commuters to meet Transportation Control Measures (TCMs) and air quality objectives.

- a. L & M St.
- b. Ft. Totten to Takoma
- c. Manor Park Re-Alignment

TIP ID: 3232 Agency ID: CM064A, ZUTO Title: Bicycle and Pedestrian Management Program									Total Cost:	\$8,680
Facility: Citywide	CMAQ	80/20/0	250 a	1,000 c	1,000 c		1,000 c			3,000
From:			5,430 c							
To:										

Total Funds: 3,000

Description: The goal of this project is to increase the safety and convenience of bicycle and pedestrian travel. It includes the widening of existing routes, curve realignment, grade reduction, and signage and lighting upgrades. Included in the Bicycle and Pedestrian Management Program is:

- a. Bicycle Parking Racks
- b. Bicycle Lanes and Signs (mark dedicated bicycle lanes, including signage)
- c. BIKE_Capital Bikeshare (CaBi)

TIP ID: 3242 Agency ID: CA303C, MNT0 Title: Maintenance, Rehab and Reconstruction of Stormwater-Hydraulic Structures and Flood									Total Cost:	\$3,215
Facility:	STBG	83/17/0		2,859 a	2,659 a	2,659 a	1,159 a	1,159 a	500 a	38,445
From:				4,300 c	6,450 c	5,950 c	3,750 c	4,000 c	3,000 c	
To:										

Total Funds: 38,445

Description: The purpose of this project is to replace/rehab existing hydraulic structures as culverts, inlets, etc.. On a bi-annual bases and based on stormwater drainage problem occurrences the structures will be inspected. On an annual bases, structures will be rehabilitated or replaced depending on their condition. The project also assesses and manages flooding conditions on transportation infrastructures.

- a. Culvert Inspection
- b. Culvert Rehabilitation and Replacement
- c. Hydraulic Structures Design
- d. Drainage and Stormwater Improvements
- e. Stormwater Refrofits

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FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 3243 Agency ID: CD062A Title: Citywide Consultant Bridge Inspection									Total Cost: \$21,507	
Facility:	NHPP	83/17/0		1,950 a		4,500 a		2,300 a	2,375 a	11,125
From:										
To:	STBG	83/17/0			2,232 a					2,232
Total Funds: 13,357										

Description: Consultant inspection of the District's bridges. Work under this contract consist of performing detailed condition inspections and evaluations of all highway and pedestrian bridges, and tunnels and underpasses, under the ownership of the District of Columbia in accordance with the prescribed inspections schedule, the DDOT Bridge Inspection Manual of Procedures and the National Bridge Inspection Standards (NBS). Safety inspection of railroad owned bridges crossing District streets shall also be performed. Selected inspections of culverts and overhead sign structures shall be performed as needed. FY2014 obligation includes Phase II of the overhead sign structure effort.

TIP ID: 3355 Agency ID: PM086A Title: Professional Capacity-Building Strategy									Total Cost: \$11,000	
Facility: Citywide	STBG	100/0/0	1,250 a	1,000 a	1,000 a	1,000 a	1,000 a	1,000 a		5,000
From:										
To:	STBG 1	80/20/0	5,000 a							
Total Funds: 5,000										

Description: This project provides training and educational experiences to build the technical capability and functional knowledge of DDOT employees to be a high-performing DDOT organization that will enhance community involvement and improve management's capacity.

TIP ID: 3423 Agency ID: AW011, AW024 Title: South Capitol Street Corridor									Total Cost: \$554,172	
Facility:	DEMO	80/20/0	103,918 c							
From: N St, MLK Ave, Suitland Pkwy, Memorial Bri										
To:	GARVEE	80/20/0	132,960 c	160,000 c	66,560 c	68,157 c				294,717
	NHPP	80/20/0	24,600 c							
	State	0/100/0	104,740 c	41,000 c	83,866 c					124,866
Total Funds: 419,583										

Description: Redevelopment of the South Capitol Street corridor is a part of the Anacostia Waterfront Initiative. Concept plans for the replacement of the Frederick Douglas Memorial Bridge are under development as part of the EIS currently being prepared for the corridor.

- a. New Frederick Douglass Memorial Bridge: Full replacement and realignment of the Frederick Douglass Memorial Bridge.
- b. Reconfigure the interchange at Suitland Parkway and I-295: The improvements include the removal of existing cloverleaf ramps at the interchange, replacing them with a diamond interchange. The diamond interchange will include two at-grade signalized intersections, one at the I-295 northbound ramps and the other at I-295 southbound ramps.
- c. Reconfigure the interchange at Martin Luther King Jr. Ave. and Suitland Parkway. The existing MLK Jr. Bridge over Suitland Parkway will be replaced and a center ramp signalized interchange will be created to allow full movements to and from Suitland Parkway to MLK Jr. Ave.
- d. Boulevard streetscape treatments along South Capitol Street from between N Street and the SE/SW Freeway. In this segment, South Capitol Street will be rebuilt as a six-lane boulevard divided by a landscaped median.
- e. New Jersey Avenue Streetscape improvements: The streetscape concept will restore a consistent design to the avenue between the SE-SW Freeway and M Street SE.

**DISTRICT OF COLUMBIA
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	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5298 Agency ID: AF067A Title: Emergency Transportation Project									Total Cost:	\$534

Facility: C ITYWIDE	STBG	83/17/0		25 c	26 c	26 c	27 c	27 c	28 c	159
From:										
To:										Total Funds: 159

Description: The purpose of this project is to provide a vehicle that allows the Department to respond to emergencies or other unforeseen events that are not budgeted or planned. It is always to plan for emergency work such as major pavement failures, such as sinkholes, falling steel and concrete from bridges and other urgent needs. The project will enable the Department to quickly respond to any emergency without delay,

TIP ID: 5308 Agency ID: SR070A, ED07 Title: Neighborhood Streetscape Improvements									Total Cost:	\$12,396
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Facility:	HSIP	90/10/0	50 a							
From:			877 c							
To:	STBG	83/17/0				1,573 a		9,896 c		11,469
										Total Funds: 11,469

Description: Improve sidewalks, curbs, gutters, trees, streetlights, traffic signals and trash receptacles. Projects include:
 A. 14th Street Streetscape, Thomas Circle - Florida Ave
 B. U St. NW Florida Ave. to 14th St.
 C. Sheriff Road NE safety improvements from 43rd St. to 51st St.
 D. Missouri Avenue, Kansas Avenue, Kennedy Street Intersection Improvements
 E. 15th Street NW Intersection Safety Improvements

TIP ID: 5313 Agency ID: CG311, CG312, Title: Urban Forestry Program									Total Cost:	\$10,800
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Facility: Citywide	NHPP	83/17/0		200 c	200 c	200 c	200 c	200 c	200 c	1,200
From:										
To:	STBG	83/17/0		300 c	300 c	300 c	300 c	300 c	300 c	1,800
										Total Funds: 3,000

Description: Plant new trees, remove dead and diseased trees, treat diseased trees, replace trees, and landscape along local and Federal roads.

TIP ID: 5315 Agency ID: MRR09A Title: Blair / Cedar / 4th Street NW									Total Cost:	\$12,750
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Facility: Intersection of Blair/Cedar and 4th	HSIP	90/10/0	2,700 c	1,250 c						1,250
From:										
To:	STBG	80/20/0	300 a							
										Total Funds: 1,250

Description: Implementation of recommendations from the Takoma Study, including new traffic signals, sidewalks, curbs and gutters.

Safety Improvements as identified in the Road Safety Audit completed.

**DISTRICT OF COLUMBIA
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CAPITAL COSTS (in \$,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5316 Agency ID: CD062A Title: Impact Attenuators and Guiderails									Total Cost:	
Facility: Citywide	HSIP	100/0/0			1,967 c	2,142 c	150 a	110 c		6,344
From:							1,975 c			
To:										
										Total Funds: 6,344

Description: This project repairs, replaces and upgrades safety appurtenances on and off the Federal-aid Highway System that have been damaged by errant vehicles, and replaces units that do not meet the requirements of NCHRP (National Cooperative Highway Research Program) Report 350. Work also includes construction of guiderails and attenuators at new locations and removal of units in locations where they are no longer needed.

- a. Impact Attenuators and Guiderails Upgrade and Replacement
- b. Impact Attenuators and Guiderails Inventory and Design

TIP ID: 5322 Agency ID: CM085A Title: Environmental Management System									Total Cost: \$3,800	
Facility:	CMAQ	80/20/0		600 a	625 a	625 a	650 a	650 a	650 a	3,800
From:										
To:										
										Total Funds: 3,800

Description: Maintain DDOT's environmental management system and update, as necessary, the DDOT Environmental Policy and Process manual. This project will also enable the review and processing of environmental documentation.

TIP ID: 5323 Agency ID: MNT06A, SR09 Title: Condition Assessment									Total Cost: \$17,615	
Facility: citywide	STBG	83/17/0		1,100 a	1,100 a	1,100 a	1,100 a	1,100 a	1,100 a	6,600
From: citywide										
To:										
										Total Funds: 6,600

Description: This project will be used to retain a vendor to perform data collection and analysis of DDOT's pavement conditions.

TIP ID: 5337 Agency ID: CD051A Title: Replacement of Pedestrian Bridges over Kenilworth Ave									Total Cost: \$21,500	
Facility: Kenilworth	STBG	80/20/0	2,350 a							
From:			2,500 b							
To:	STBG 1	83/17/0		14,000 c						14,000
										Total Funds: 14,000

Description: This project will fund the replacement of the deck, approach slabs, bearing joints; and repair the substructure and repaint steel.

TIP ID: 5339 Agency ID: SR037A Title: Pavement Restoration - NHPP Streets									Total Cost: \$83,800	
Facility:	NHPP	83/17/0		150 a	10,000 c	10,000 c	10,000 c	10,000 c	10,000 c	60,150
From:				10,000 c						
To:										
										Total Funds: 60,150

Description: Resurfacing of selected roadway segments on the National Highway System (NHPP), repair-replacement of curbs, gutters and sidewalks, driveways, base pavements, perimeter fencing, furnishing sewer-water manhole frames, catch basin tope and removal of roadway and roadside debris.

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CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5342 Agency ID: CD046A Title: Approach Bridges to 14th Street Bridge									Total Cost:	\$34,671
Facility: 14th Street Bridge northbound over the Poto	NHPP	90/10/0	2,000 a				3,146 a		31,525 c	34,671
From:										
To:	NHPP 1	80/20/0	1,750 a							
Total Funds:										34,671

Description: The approach bridges to be rehabilitated are over Maine Ave. (bridge 171-1), over the Outlet Channel (bridge 171-2) and over Haines Point Park (bridge 171-3).

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5347 Agency ID: CI046A, CI047 Title: Traffic Signal Maintenance									Total Cost:	\$103,875
Facility: Citywide	NHPP	83/17/0		5,425 c	5,450 c	5,450 c	5,450 c	5,450 c	5,450 c	32,675
From: Citywide										
To: Citywide	STBG	83/17/0		3,500 a	1,500 a	1,500 a	2,500 a	1,500 a	3,500 a	71,200
				8,900 c	8,700 c	8,700 c	8,700 c	8,700 c	8,700 c	
				800 d	800 d	800 d	800 d	800 d	800 d	
Total Funds:										103,875

Description: Provide effective and efficient maintenance services for the traffic signal systems throughout the District of Columbia.

Support the Traffic Signal Group of DDOT TOA in providing traffic engineering studies and signal system analysis and management for the city's roadway system. This projects mission is to perform signal warrants. Projects include:

- a. Citywide Traffic Signal Construction Contract
- b. Citywide Traffic Signal Construction Contract (National Highway System Routes)
- c. Traffic Signal Consultant Design
- d. Traffic Signal Optimization
- e. Traffic Signal Uninterruptible Power Supply
- f. Traffic Signal Maintenance
- h. Asset Inventory, Preliminary Design and RFP Development for Improved Signal System and Communication Network
- i. Traffic Signal Systems Analysis
- j. Traffic Signal Systems Management
- k. Traffic Signal On-Site Support Services
- l. Transit Signal Priority

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5350 Agency ID: AD304 Title: Streetlight Asset Mgmt & Streetlight Construction - Local									Total Cost:	\$10,500
Facility: Citywide	State	0/100/0		4,200 c	4,200 c	4,200 c				12,600
From:										
To:										
Total Funds:										12,600

Description: This project will provide maintenance of streetlights, alley lights, alley tree trimming for blockage of alley lighting, knockdowns, and asset inventory for lighting on non-federally-funded streets.

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CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5353 Agency ID: ED028A Title: Southern Ave SE Improvements									Total Cost: \$45,259	
Facility: Southern Ave SE	STBG	83/17/0		15,500 c			12,059 c			27,559
From: South Capitol St SE										
To: 23rd St SE	STBG 1	80/20/0	2,200 a 15,500 c							

Total Funds: 27,559

Description: The purpose of the project is to implement transportation improvements that improve vehicular, pedestrian, and bicycle safety, maintain mobility, and correct roadway facility deficiencies through the project area.

- a. Southern Ave from South Capitol St to Barnaby St SE and Bridge over Winkle Doodle Branch
- b. Southern Ave from Barnaby Rd SE to UMC Campus

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5385 Agency ID: AD020A Title: Streetlight Asset Mgmt - Federal									Total Cost: \$29,021	
Facility: Citywide	NHPP	83/17/0		2,320 c	2,320 c	3,030 c				7,670
From:										
To:	STBG	83/17/0		3,480 c	3,480 c	3,480 c				10,440

Total Funds: 18,110

Description: This project will provide maintenance for the District's aging lighting system to provide safe operations. Work includes upgrade of lights in tunnels and underpasses, bridges, highways, overhead guide sign lighting, obsolete incandescent and mercury vapor lights as well as navigation lights on bridges and waterways. Projects include:

- a) Street Light Replacement
- b) Streetlight Design Services
- c) Streetlight System Upgrade
- d) Streetlight Conversion
- e) Electrical Upgrade
- f) CW painting of street light and traffic signal poles
- g) CW Street and Bridge Light Maintenance
- h) Multiple Circuit Conversion
- i) Streetlight Asset Management
- j) Highway Lighting
- k) Emergency Response to Knockdowns

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5433 Agency ID: PM094A, CD05 Title: Bridge management Project/AASHTOWARE									Total Cost: \$2,125	
Facility: Citywide	NHPP	83/17/0		350 a	350 a	350 a	350 a	375 a	375 a	2,150
From: Citywide										
To:	STBG	83/17/0		620 e	300 e	310 e	310 e	310 a	310 a	2,160

Total Funds: 4,310

Description: This project provide funds to support the Bridge Management Program and to pay the annual Points license fee.

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CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5439 Agency ID: AD017A Title: Citywide streetlight construction										Total Cost: \$22,765

Facility: citywide	STBG	83/17/0		300 a	300 a	300 a	300 a	300 a	300 a	18,000
From: citywide				2,700 c	2,700 c	2,700 c	2,700 c	2,700 c	2,700 c	
To:										
Total Funds: 18,000										

Description: This project will provide installation/construction of the District's aging streetlight systems to provide safe operations. Work includes upgrading of lighting in tunnels, freeway air rights, overhead signs structures, and obsolete navigational lights on bridges.

TIP ID: 5554 Agency ID: HTF02A Title: Garvee Bond Debt Service - 11th Street Bridge SE Replacement										Total Cost: \$82,390
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Facility:	NHPP	100/0/0	14,100 c	14,100 c	14,100 c	14,100 c	14,100 c	14,100 c	11,771 c	82,271
From:										
To:	NHPP 1	80/20/0	47,075 c							
Total Funds: 82,271										

Description: This project consist of rehabilitation of existing deck, steel beams.

TIP ID: 5754 Agency ID: CM080A Title: Benning Road Extension										Total Cost: \$226,976
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Facility: Streetcar Line	CMAQ	80/20/0	3,200 a							
From:										
To:	NHPP	83/17/0			7,168 a	22,455 c	38,706 c	49,978 c		118,307
	State	0/100/0	6,400 a	8,000 a	19,923 c	20,401 c	28,131 c			76,455
			23,614 c							
Total Funds: 194,762										

Description: The Benning Road Streetcar Extension is a 1.95-mile surface fixed guide way transit line that includes electrically powered streetcar vehicles operating along tracks located within the existing street and travel lanes. The NEPA study will address potential impacts of the project, as well as, preliminary engineering (conceptual) for the line.

TIP ID: 5755 Agency ID: STC12A Title: Union Station to Georgetown Premium Transit; K Street Transit										Total Cost: \$348,000
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Facility: Premium Transit	CMAQ	80/20/0	1,500 d							
From:										
To:	NHPP	80/20/0	7,500 a							
	State	0/100/0	5,250 a	1,000 a						1,000
			7,000 c							
Total Funds: 1,000										

Description: DDOT received an alternatives analysis grant from the Federal Transit Administration to study premium transit options from the Union Station to Georgetown. Premium transit is high quality transit that offered improved liability and speed. The purpose of the AA study is to provide premium transit between Union Station and Georgetown. The Nepa document will select a preferred alternative to move to design and construction for premium transit. Also included in this project is an extension study to continue the transit Northwest. This project also includes K Street Transit Streetscape construction funding.

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CAPITAL COSTS (in \$1,000)**

Source			Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5792 Agency ID: ED0C2A Title: C Street NE Implementation											Total Cost: \$22,032
Facility: C Street/N. Carolina Avenue	STBG	80/20/0	1,500 a								
From: Oklahoma Avenue											
To: 14th Street NE	STBG 1	83/17/0			3,033 a						20,532
											17,499 c
Total Funds: 20,532											

Description: The C Street NE Traffic Calming project will slow traffic on the corridor by reducing at least one vehicular lane of traffic.

TIP ID: 5802 Agency ID: CD044A Title: Program Manager AWI											Total Cost: \$52,500
Facility: Citywide	NHPP	80/20/0	28,000 a								
From:											
To:	NHPP 1	83/17/0	700 a	1,500 a	1,500 a	1,500 a	3,000 a	1,500 a		9,000	
Total Funds: 9,000											

Description: Consultant services to supplement the NEPA process and implement design and construction of the AWI corridors. Work includes surveys; geotechnical and environmental investigation and testing preliminary ; roadway and bridge design and CE services during construction. Funding will be used for construction oversight and consultant services.

TIP ID: 5957 Agency ID: AW0, EW002C Title: Pennsylvania Ave/Potomac Circle											Total Cost: \$21,961
Facility: Pennsylvania Ave and Potomac Circle	HSIP	80/20/0	3,000 a								
From:											
To:			5,750 c								
	NHPP	83/17/0	1,400 a				11,811 c			11,811	
Total Funds: 11,811											

Description: Convert the former I-695 freeway into Southeast Boulevard and to reconfigure Barney Circle to provide at grade access and neighborhood connectivity to the waterfront. Improve pedestrian and bicycle access to the Sousa Bridge and along proposed Southeast Boulevard to the 11th Street Bridges.

Pedestrian and Bicycle Safety improvements including reconfiguration of the Pennsylvania Ave/Potomac Avenue intersection, new signals and crosswalks and improvement access to the Potomac Metro station.

TIP ID: 6038 Agency ID: Title: Garvee Bond Debt Service - South Capitol St											Total Cost:
Facility:	NHPP	83/17/0		14,700 c	23,300 c	25,600 c	25,600 c			89,200	
From:											
To:											
Total Funds: 89,200											

Description: DDOT will use future FHWA annual allocations to pay service on the bonds.

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CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6039 Agency ID: CD054A Title: H Street Bridge over Railroad		Total Cost: \$220,211							
Facility: H Street NE	NHPP	80/20/0	1,000 a						
From: North Capitol Street									
To: 3rd Street NE	State	0/100/0	9,000 a	13,541 c	33,122 c	66,795 c	75,983 c	21,764 c	211,205
			14,250 c						

Total Funds: 211,205

Description: Conduct environmental assessments. Prepare concept designs, design plans and specifications and construct documents for bridge replacement/rehabilitation. Includes work on the H Street NE Bridge from North Capitol St. to 3rd St. NE. The bridge will be reconstructed to accommodate the H/Benning Streetcar Line, allow for Amtrak to increase its capacities in its Union Station rail yard, and allow for development of the air rights above the rail yard.

TIP ID: 6102 Agency ID: Title: 5303/5304 FTA Program		Total Cost: \$2,874							
Facility: Citywide	Sect. 5303	80/20/0	2,420 a	415 a	415 a				830
From:									
To:	Sect. 5304	80/20/0	638 a	110 a	110 a				220

Total Funds: 1,050

Description: DDOT receives an annual FTA grant appropriation to support metropolitan planning activities (5303) and Statewide/DC based Planning Activities (5304).

TIP ID: 6105 Agency ID: Title: DC Circulator New Buses for Replacement and Expansion		Total Cost: \$8,925							
Facility:	State	0/100/0	63,853 e	750 c	768 c				8,618
From:				7,100 e					
To:									

Total Funds: 8,618

Description: Additional Circulator buses must be purchased in order to expand service to additional routes.

TIP ID: 6114 Agency ID: ZUT10C Title: South Capitol Street Trail		Total Cost: \$12,964							
Facility:	CMAQ	80/20/0	1,700 a		11,264 c				11,264
From:									
To:									

Total Funds: 11,264

Description: Design and construct a paved bicycle and pedestrian trail along South Capitol Street based on the 2010 concept plan.



TIP ID: 6115 Agency ID: CI040A Title: Traffic Signal LED Replacement		Total Cost: \$8,400							
Facility:	NHPP	80/20/0	2,220 c						
From:									
To:	NHPP 1	83/17/0	900 c	1,080 c	1,080 c	1,080 c	1,080 c	1,080 c	6,480
	STBG	80/20/0	2,220 c						
	STBG 1	83/17/0	540 c	450 c	540 c	990 c	540 c	540 c	3,600

Total Funds: 10,080

Description: Replace traffic and pedestrian signal LED modules at all signalized intersections on the surface transportation systems.

DISTRICT OF COLUMBIA
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CAPITAL COSTS (in \$,1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6187 Agency ID: MRR27A Title: I-395 HOV Bridge over Potomac River									Total Cost: \$39,250
Facility: I-395 HOV	NHPP	80/20/0	1,750 a						
From: Over Potomac River									
To: Over Potomac River	NHPP 1	90/10/0	1,500 a					60,799 c	60,799
									Total Funds: 60,799

Description: Repair extensive pier cracking, superstructure and substructure rehabilitation.

TIP ID: 6190 Agency ID: FLD01 Title: Bloomingdale/LeDroit Park Medium Term Flood Mitigation Project									Total Cost: \$10,000
Facility: Bloomingdale/LeDroit Park	State	0/100/0	2,500 a	500 a					2,000
From:			7,500 c	1,500 c					
To:									
									Total Funds: 2,000

Description: Construction of Green Infrastructure to manage flooding concerns in the Bloomingdale/LeDroit neighborhoods.

TIP ID: 6193 Agency ID: PM0D7A Title: Cleveland Park Streetscape and Drainage Improvement									Total Cost: \$17,256
Facility: Connecticut Ave. NW	NHPP	80/20/0	526 a						
From: Porter Street NW			2,415 c						
To: Macomb Street NW	NHPP 1	83/17/0		14,315 c					14,315
									Total Funds: 14,315

Description: Implementation of Cleveland Park study recommendations including Connecticut Avenue access lane and neighborhood parking supply, streetscape improvements and intersection reconfiguration at Porter/Quebec/Connecticut Ave NW.

TIP ID: 6194 Agency ID: Temp1315 Title: Normanstone/Fulton Street Culvert & LID									Total Cost: \$4,300
Facility: Normanstone Drive	FLAP	83/17/0	1,500 c	1 c					1
From: Fulton Street									
To: 34th Street	State	0/100/0	2,800 c						
									Total Funds: 1

Description: This project repair seven culverts under Normanstone Drive, install linear bioretention cells along Fulton Street and Normanstone Drive, and mill and resurface both streets

TIP ID: 6195 Agency ID: ZU033A Title: Florida Avenue Streetscape									Total Cost: \$25,670
Facility: Florida Avenue, NE	STBG	80/20/0	2,000 a						
From: 2nd Street, NE									
To: H Street, NE	STBG 1	83/17/0	1,500 a		22,020 c				22,020
									Total Funds: 22,020

Description: Implementation of Florida Avenue Transportation Study recommendations, which includes reconstruction of Florida Ave from 2nd St NE to H St NE, safety improvements, and streetscape upgrades.

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CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6315 Agency ID: SR086A Title: East Capitol Street Corridor Mobility & Safety Plan									Total Cost: \$3,800
Facility: Street	HSIP	90/10/0	1,500 a	400 a					400
From:									
To:	STBG	80/20/0	1,000 a						
									Total Funds: 400

Description: Design and Construct pedestrian safety and traffic operations improvements



TIP ID: 6418 Agency ID: Title: Rehabilitation of 16th St Bridge over Piney Branch Rd. NW (Bridge No. 0022)									Total Cost: \$9,362
Facility: 16th St Bridge NW over Piney Branch Rd. N	NHPP	83/17/0	1,000 a	8,362 c					8,362
From:									
To:									
									Total Funds: 8,362

Description: Rehabilitation of 16th Street Bridge over Piney Branch Parkway, NW, Bridge No. 0022, to include deck repair, utility replacement to preserve the integrity and extend the life of the masonry and reinforced concrete arch superstructure. Completion of the interior safety walkways, and railings

TIP ID: 6419 Agency ID: Title: Rehabilitation of Eastern Avenue NE from New Hampshire Ave, NE to Whitter Street NW									Total Cost: \$4,323
Facility: Eastern Avenue NE	STBG	80/20/0	750 a						
From: New Hampshire Ave NE									
To: Whitter Street NW	STBG 1	83/17/0		9,216 c					9,216
									Total Funds: 9,216

Description: Rehabilitate of Reconstruct Asphalt Overlay on concrete pavement, replace deteriorated catch basins, manholes, curb and ramps

TIP ID: 6427 Agency ID: Title: Kenilworth Terrace Bridge over Watts Branch									Total Cost: \$8,347
Facility: Kenilworth Terrace Bridge over Watts Branc	NHPP	83/17/0		5,222 c					5,222
From:									
To:									
									Total Funds: 5,222

Description: Project scope include applying waterproof seal to the entire timber structure, repair the reinforced concrete roadway curb, rehabilitation of deck structure of both approach abutments.

TIP ID: 6493 Agency ID: Title: Roadway Reconstruction in Ward II									Total Cost: \$18,403
Facility: 21st Street NW, Florida Ave NW, and Mass	NHPP	83/17/0		17,408 c					17,408
From:									
To:	STBG	80/20/0	1,000 a						
									Total Funds: 17,408


Description: Pavement reconstruction including improvement of curb and gutter, sidewalk, streetlights, traffic signals, upgrade ADA ramps, drainage catch basins, LID's and replace trees at four locations in Ward II:

- A. 21st St from O St to Massachusetts Ave NW
- B. Florida Ave from Decatur St. to Massachusetts Ave NW
- C. Massachusetts Ave from 20th St to 23rd St NW
- D. Massachusetts Ave from Decatur St to Belmont St NW

DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6500 Agency ID:		Title: Shephards Branch Trail						Total Cost:		\$17,997
Facility: Anacostia Metro Station	CMAQ	80/20/0		717 a		17,180 c			17,897	
From: Northward along CSXT RR ROW										
To: North end of CSXT RR ROW	TAP	83/17/0	100 a							

Total Funds: 17,897

Description: Feasibility study for proposed Shephards Branch Trail to determine alignment probability of needing and Environmental Assessment (ES), likely permits needed, and potential construction costs for a tail on the soon to be acquired CSXT RR ROW. 

TIP ID: 6501 Agency ID:		Title: Reconstruction of Kennedy Street NW from 16th St NW to Georgia Ave NW						Total Cost:		\$800
Facility: Kennedy St NW	STBG	83/17/0	232 a				11,545 c		11,545	
From: 16th St NW										
To: Georgia Ave	STBG 1	80/20/0	800 a							

Total Funds: 11,545

Description: This project is to reconstruct Kennedy Street, NW corridor from Georgia Avenue to 16th Street, NW. The scope of work for this Task Order includes but not limited to roadway and streetscape design, subsurface utility engineering (SUE), traffic signal modification, context sensitive design/solution, utility relocation coordination, maintenance of traffic, intersection safety and operational efficiency improvement, signage and pavement markings, storm water management-LID/Bio retention, Improvement of curbs & gutter, driveways, sidewalks and ADA ramps, and so on.

TIP ID: 6502 Agency ID:		Title: Subsurface Investigation & AM Program Support						Total Cost:		\$5,122
Facility: Citywide	STBG 1	80/20/0	1,106 a							
From:										
To:	STBG 2	83/17/0	681 a	681 a	681 a	681 a	681 a	681 a	4,086	

Total Funds: 4,086

Description: Subsurface Pavement Engineering to determine characteristics of roadway and to perform adequate analysis for pavement design, engineering and support for asset management program

TIP ID: 6503 Agency ID:		Title: Construction of Fiber Communication Network on Freeways						Total Cost:		\$6,710
Facility: Citywide	HSIP	80/20/0	6,460 c	250 c					250	
From:										
To:										

Total Funds: 250

Description: Perform feasibility study for upgrade of DDOT traffic signal system, conduct system design for implementation of advanced traffic controllers, Procure and install advanced traffic controllers and the associated devices; perform system integration.

TIP ID: 6595 Agency ID:		Title: Pennsylvania Ave NW Streetscape from 17th Street NW to Washington Circle						Total Cost:		\$17,000
Facility: Pennsylvania Ave NW	NHPP	80/20/0	1,000 a							
From: 17th St NW										
To: 22nd St NW	NHPP 1	83/17/0		1,536 a					1,536	

Total Funds: 1,536

Description: Design for streetscape of Pennsylvania Avenue NW, includes multi-modal friendly transportation. Facilitate New Connections, Balancing the Modes, Pedestrian Scale Streetscape, Create a vibrant, cohesive public space that provides a sense of visual continuity and a framework for new active uses.

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6596 Agency ID:	Title: Theodore Roosevelt Memorial Bridge								Total Cost:	\$31,000
Facility: Theodore Roosevelt Memorial Bridge	NHPP	90/10/0	3,000 a		2,097 a					2,097
From:										
To:	Total Funds: 2,097									
Description: Phase 2 - bridge deck evaluation and environmental inventory; supplemental to Phase 1 investigation, NPS and FHWA input.										

TIP ID: 6597 Agency ID:	Title: Aspen Street NW Improvements								Total Cost:	\$4,482
Facility: Aspen Street NW	State	0/100/0		500 a	3,482 c					3,982
From: Georgia Avenue NW										
To: 16th Street NW	STBG	80/20/0	500 a							
										Total Funds: 3,982
Description: Improve Aspen Street NW from Georgia Avenue NW to 16th Street NW to include new turn lanes and a multi-use trail on the north side of the street to support the Walter Reed redevelopment.										

TIP ID: 6598 Agency ID:	Title: Tenleytown Multi-Modal Access								Total Cost:	\$6,080
Facility: Wisconsin Ave NW	STBG	80/20/0	1,000 a							
From: Albemarle Street NW										
To: Brandywine Street NW	STBG 1	83/17/0		1,000 a						1,000
										Total Funds: 1,000
Description: Develop preliminary and final design for improvements based on recently completed Tenleytown-AU Metrorail Station Access Improvements Study.										

TIP ID: 6610 Agency ID: CFPID170319	Title: Overhead Freeway Sign Maintenance								Total Cost:	\$3,000
Facility: Citywide	NHPP	83/17/0	600 c	600 c	600 c	600 c	600 c	600 c	600 c	3,000
From:										
To:	Total Funds: 3,000									
Description: Repair and replacement of damaged overhead/oversized signage, primarily located along Interstate system. This project will facilitate replacement of damaged signs that are too large to fabricate and install in-house.										

TIP ID: 6613 Agency ID:	Title: I-695 Bridges From I-395 to I-295/DC-295								Total Cost:	
Facility: I 695	NHPP	83/17/0				537 a	2,749 a	563 a		3,849
From: I 395										
To: I 295	Total Funds: 3,849									
Description: Post-construction close-out and completion of outstanding items from the 11th Street Bridge project.										

TIP ID: 6614 Agency ID:	Title: Pennsylvania Avenue Streetlight Upgrade from 2nd Street SE to Barney Circle SE								Total Cost:	\$15,575
Facility: Pennsylvania Avenue	NHPP	83/17/0	7,115 c	7,115 c	7,460 c					14,575
From: 2nd Street SE										
To: Barney Circle SE	Total Funds: 14,575									
Description: This project is construction phase. The work includes but not limited to installation of new light poles, light fixtures, wheel chair ramps and underground infrastructures including conduits, cables, manholes, excavation and backfill, pavement restoration										

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6625 Agency ID:		Title: Citywide Streetlights P3							Total Cost: \$412,500	
Facility:	NHPP	83/17/0	399 a	3,649 a	3,177 c	4,954 c	4,979 c	5,004 c	5,030 c	26,793
From:	State	0/100/0	729 a	6,925 a	6,072 c	9,203 c	9,252 c	9,302 c	9,354 c	50,108
To:	STBG	83/17/0	608 a	3,552 a	4,835 c	7,539 c	7,577 c	7,615 c	7,655 c	38,773
Total Funds:									115,674	

Description: This project will be to develop a Private, Public, Partnership (P3) for the Streetlights in the District of Columbia. The P3 will include the conversion of all District Streetlights to LED in addition to a long-term, performance-based asset management contract. Work to develop the P3 will include technical, legal, and financial aspects of the project which will be developed into an RFP. Section 106 and NEPA work will also be included during the development of the RFP. This project will be split 42% Local, 23% NHPP and 35% STP. The development of the P3 is anticipated to take between 12 and 18 months. The P3 contract will be for between 10 and 15 years.

TIP ID: 6636 Agency ID:		Title: Bus Priority Plan and Program							Total Cost: \$2,000	
Facility: Citywide	Sect. 5304	80/20/0		568 a						568
From:	State	0/100/0			1,000 a					1,000
To:	State	0/100/0		432 a						432
Total Funds:									2,000	

Description: interdisciplinary program at DDOT to plan, design, and implement bus priority corridor projects. Hire dedicated staff and a Program Management Consultant to assist with oversight and management of the new program, as well as planning and engineering services. \$2 million total funding request: \$1 million local funds requested for Bus Priority Plan, including NY Ave BRT. \$1 million federal funds requested for Bus Priority Program (comprised of funding for a Program Management Consultant and/or up to five dedicated FTEs supported by a PMC). Under the new program, lead a strategic plan for bus priority projects, which would build upon moveDC and the Metrobus Priority Corridor Network plan. This strategic plan would also evaluate the possibility of BRT on New York Avenue. The purpose of this plan is to: Identify benchmarks or metrics to determine when to apply specific bus priority improvements given corridor characteristics, such as ridership, headways, roadway width; Identify phase one corridors and prioritize them for study, design and implementation; Apply the benchmarks to determine a set of improvements for each phase one corridor; Engage the public and solicit feedback; and Develop a programmatic agreement with the Federal Highway Administration for environmental clearance of the plan's recommendations or a streamlined approach to environmental documentation. See attached documents for Program vision, draft plan scope, and Program staffing request.

TIP ID: 6637 Agency ID:		Title: 4th St and P St SW Streetlight upgrade							Total Cost: \$5,116	
Facility: Along 4th St and P St SW	STBG	83/17/0		500 a				4,616 c		5,116
From: First St SW										
To: M St SW										
Total Funds:									5,116	

Description: Design and Construction of street light upgrade. Existing street lights are old and inefficient and will be replaced with LED efficient lights, new manholes, new poles and new cable and conduits.

TIP ID: 6638 Agency ID:		Title: 16th St. NW Transit Priority							Total Cost: \$9,000	
Facility: 16th St NW	CMAQ	80/20/0		1,000 a						1,000
From: H St NW										
To: Arkansas Ave NW										
Total Funds:									1,000	

Description: The purpose of the Proposed Action is to improve transit performance and reliability along with pedestrian crossings, bus stops, and sidewalks along 16th Street NW between H Street NW and Arkansas Avenue NW. 16th Street is a multimodal corridor and the purpose of the project is to move more people through the corridor quickly to meet the existing and long-term regional mobility and local accessibility needs for residents and the traveling public within the project area.

**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6639	Agency ID:	Title: Chestnut St from Western Ave to Oregon Ave NW Sidewalk							Total Cost:	

Facility:	STBG	83/17/0		3,482	c					3,482
From:										
To:	Total Funds: 3,482									

Description: This project is to design new sidewalks on Chestnut Street, NW from Western Avenue to Oregon Avenue which is half a mile long with 40 ft. wide roadway. Currently there is no sidewalk on either side of the street and this has been a problem for pedestrians in the neighborhood. The project will tie into existing sidewalk on the southeast side of Western Avenue and proposed sidewalk on the western side of Oregon Avenue.

TIP ID: 6640	Agency ID:	Title: Clean Air Partners							Total Cost: \$340	
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Facility: Citywide	CMAQ	80/20/0		57	a	57	a	57	a	57	a	342
From:												
To:	Total Funds: 342											

Description: Clean Air Partners has strive to improve public health and the environment by working with businesses, organizations and individuals throughout the region to raise awareness and reduce air pollution through voluntary actions.

TIP ID: 6641	Agency ID:	Title: Cleveland Park Watershed							Total Cost:	
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Facility:	STBG	83/17/0		600	a					600
From:										
To:	Total Funds: 600									

Description: This project is to reduce flooding experienced at the Cleveland Park metro station and surrounding area. The project will involve building stormwater facilities that manage runoff before it reaches the areas prone to flooding.

TIP ID: 6642	Agency ID:	Title: I-66 and Rock Creek Parkway Ramp Study							Total Cost: \$8,000	
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Facility:	State	0/100/0		500	a					500
From:										
To:	STBG	83/17/0		1,000	a					1,000
										Total Funds: 1,500

Description: There are several transportation needs in this area that need to be considered holistically: - ANC 2A requested a feasibility study to connect the terminus of I-66 to the Rock Creek Parkway. - As part of the Union Station to Georgetown Streetcar EA, a loop ramp from westbound K Street NW to southbound 27th Street NW was proposed to improve traffic operations. The new right turn ramp that would go under the existing K Street Bridge adjacent to the I-66/Whitehurst Freeway ramp. - The K Street bridge over the ramp to the Whitehurst Freeway is in need of rehabilitation. This planning study/environmental process would examine the impacts and implications of these connections on motorists, as well as upon multimodal users and the surrounding built and natural environment. The findings would inform the scope of the upcoming K Street Bridge rehabilitation work.

TIP ID: 6643	Agency ID:	Title: K St and Water St Trail Connection							Total Cost: \$250	
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Facility:	NPS	80/20/0		250	a					250
From:										
To:	Total Funds: 250									

Description: Study and compliance of an off street trail connection and bridge between the Capital Crescent Trail and the Rock Creek Trail.



**DISTRICT OF COLUMBIA
FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

		Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6644 Agency ID:		Title: LED Signage Procurement and Installation								Total Cost:	
Facility:		NHPP	83/17/0		360 c	360 c	360 c	360 c	360 c	360 c	2,160
From:											
To:		STBG	83/17/0		240 c	240 c	240 c	240 c	240 c	240 c	1,440
Total Funds:											3,600

Description: Procurement and installation of LED signage and intelligent warning systems (flashing pedestrian signs, driver feedback machines, etc.). Signs will be procured, installed, and maintained by Field Operations Branch.

SUBURBAN MARYLAND

Interstate

I-270 at Watkins Mill Road Interchange

TIP ID: 3044 Agency ID: MO3511 Title: I-270 at Watkins Mill Road Interchange Construction

I-270 Innovative Congestion Management

TIP ID: 6444 Agency ID: MO0691 Title: I-270 Innovative Congestion Management

I-70/US 40 at MD 144FA, Meadow Road, and Old National Pike Interchange

TIP ID: 6411 Agency ID: FR5801 Title: I-70/US 40 at MD 144FA, Meadow Road, and Old National Pike Interchange C

I-95/I-495 at Greenbelt Metro Station Interchange

TIP ID: 2894 Agency ID: PG3331 Title: I-95/I-495 at Greenbelt Metro Station Interchange Construction

I-95/I-495 Corridor (North and West)

TIP ID: 6432 Agency ID: AW0731 Title: I-495 and I-270 P3 Project (Traffic Relief Plan)

Primary

MD 210 Corridor

TIP ID: 6524 Agency ID: PG2211 Title: MD 210 Corridor Study

TIP ID: 4879 Agency ID: PG7001 Title: MD 210 at Kerby Hill Road/Livingston Road Interchange Construction

MD 4 at Suitland Parkway Interchange

TIP ID: 3547 Agency ID: PG6181 Title: MD 4 at Suitland Parkway Interchange Construction

MD 5 Corridor

TIP ID: 4882 Agency ID: PG1751 Title: MD 5 at MD 373 and Brandywine Road Interchange Construction

TIP ID: 6395 Agency ID: PG5971 Title: MD 5 at Linda Lane Intersection Improvements

US 15 at Monocacy Boulevard Interchange

TIP ID: 4892 Agency ID: FR5711 Title: US 15 at Monocacy Boulevard Interchange Construction

US 15/US 40 Corridor (Frederick City)

TIP ID: 6431 Agency ID: FR1881 Title: US 15/US 40 Frederick Freeway Highway Reconstruction

US 301 Corridor (Waldorf)

TIP ID: 4881 Agency ID: CH2031 Title: US 301 at MD 228/MD 5BU Interchange Construction

TIP ID: 6635 Agency ID: CH2032 Title: US 301 at MD 5 Interchange Construction

Secondary

MD 180/Ballenger Creek Pike Corridor

TIP ID: 6489 Agency ID: FR6781 Title: MD 180 Highway Reconstruction

MD 197 Corridor

TIP ID: 4887 Agency ID: PG6911 Title: MD 197 Highway Reconstruction

MD 28/MD 198 Corridor

TIP ID: 3476 Agency ID: MO8861 Title: MD 28/MD 198 Corridor Study

MD 450 Corridor

TIP ID: 3150 Agency ID: PG6541 Title: MD 450 Highway Reconstruction

MD 85 Corridor

TIP ID: 6483 Agency ID: FR3881 Title: MD 85 Phase 1 Highway Reconstruction

MDOT/State Highway Administration

MD 97 at Brookeville

TIP ID: 3106 Agency ID: MO7461 Title: MD 97 at Brookeville Highway Construction

MD 97 at Randolph Road Interchange

TIP ID: 3104 Agency ID: MO8541 Title: MD 97 at Randolph Road Interchange Construction

MD 97 Corridor

TIP ID: 5420 Agency ID: MO2241 Title: MD 97 at Montgomery Hills Highway Reconstruction

Naval Support Activity Bethesda BRAC Improvements

TIP ID: 6122 Agency ID: MO5934 Title: MD 355 BRAC Highway Improvements

TIP ID: 6071 Agency ID: MO5938 Title: MD 185 at Jones Bridge Road and Kensington Parkway Phase 3 BRAC Inter

US 1 Corridor

TIP ID: 3108 Agency ID: PG6241 Title: US 1 Highway Reconstruction

TERMs

Transportation Emissions Reduction Measures

TIP ID: 3566 Agency ID: AWCC Title: Commuter Connections Program

Maintenance

System Preservation Projects

TIP ID: 3081 Agency ID: AWBR Title: Areawide Bridge Replacement and Rehabilitation

TIP ID: 3085 Agency ID: AWCM Title: Areawide Congestion Management

TIP ID: 3038 Agency ID: AWEN Title: Areawide Environmental Projects

TIP ID: 3082 Agency ID: AWRR Title: Areawide Resurfacing and Rehabilitation

TIP ID: 3084 Agency ID: AWSS Title: Areawide Safety and Spot Improvements

TIP ID: 2710 Agency ID: AWTA Title: Areawide Transportation Alternatives

TIP ID: 3083 Agency ID: AWUR Title: Areawide Urban Reconstruction

TIP ID: 6645 Agency ID: CH1681 Title: MD 225 Mattawoman Creek Bridge Replacement

TIP ID: 6603 Agency ID: CH2261 Title: MD 254 Neale Sound Bridge Replacement

TIP ID: 6591 Agency ID: FR1021 Title: MD 478 Potomac River Branch Bridge Replacement

TIP ID: 6518 Agency ID: FR1321 Title: MD 355 Bennett Creek Bridge Replacement

TIP ID: 6648 Agency ID: FR1541 Title: MD 77 Beaver Branch Bridge Replacement

TIP ID: 6488 Agency ID: FR3501 Title: US 40AL Urban Reconstruction

TIP ID: 6486 Agency ID: FR5591 Title: MD 355 CSX Old Main Line Subdivision Bridge Replacement

TIP ID: 6619 Agency ID: FR6541 Title: MD 464 Little Catocin Creek Replacement

TIP ID: 6649 Agency ID: FR6991 Title: MD 26 Westbound Monocacy River Bridge Replacement

TIP ID: 6620 Agency ID: FR7051 Title: MD 355 Monocacy River Bridge Replacement

TIP ID: 6532 Agency ID: MO4271 Title: MD 355 Little Bennett Creek Bridge Replacement

TIP ID: 6651 Agency ID: PG0191 Title: I-95/I-495 MD 4 Bridges Replacement

TIP ID: 6487 Agency ID: PG0461 Title: MD 381 Timothy Branch Bridge Replacement

TIP ID: 6646	Agency ID: PG0671	Title: MD 382 Charles Branch Bridge Replacement
TIP ID: 6529	Agency ID: PG1061	Title: MD 212A Urban Reconstruction
TIP ID: 6522	Agency ID: PG1272	Title: I-95/I-495 MD 214 Bridges Replacement
TIP ID: 6652	Agency ID: PG2402	Title: MD 210 Henson Creek Bridge Replacement
TIP ID: 6653	Agency ID: PG2582	Title: MD 4 Race Track Road Bridges Replacement
TIP ID: 6590	Agency ID: PG3641	Title: MD 500 at Mount Rainier/Chillum Urban Reconstruction
TIP ID: 6437	Agency ID: PG6981	Title: I-95/I-495 Suitland Road Bridges Replacement
TIP ID: 6438	Agency ID: PG6982	Title: I-95/I-495 Suitland Parkway Bridges Replacement
TIP ID: 6654	Agency ID: PG7201	Title: MD 717 Western Branch Bridge Replacement
TIP ID: 6655	Agency ID: PG7751	Title: I-95/I-495 MD 414 Bridges Replacement
TIP ID: 6656	Agency ID: PG7752	Title: I-95/I-495 Good Luck Road Bridges Replacement
TIP ID: 6647	Agency ID: PG9671	Title: Riverdale Road Anacostia River Branch Bridge Replacement

Primary

Governor Harry W. Nice Bridge Improvement Project

TIP ID: 5527	Agency ID:	Title: Governor Harry W. Nice Bridge Improvement Project
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Maintenance

Marc Improvements

TIP ID: 6400	Agency ID:	Title: MARC Improvements
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Transit

Large Urban Operating

TIP ID: 6147	Agency ID:	Title: Large Urban Systems - Preventive Maintenance
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Large Urban Systems- Capital

TIP ID: 2713	Agency ID: 0892/0893	Title: Large Urban Systems - Capital
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MARC Rolling Stock Overhauls and replacements

TIP ID: 6401	Agency ID:	Title: MARC Rolling Stock Overhauls and Replacements
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Purple Line

TIP ID: 2795	Agency ID:	Title: Purple Line
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Ridesharing

TIP ID: 3760	Agency ID:	Title: Ridesharing - Statewide Program
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Rural Transit - Capital Assistance

TIP ID: 2602	Agency ID: Part of 0218	Title: Rural Transit - Capital Assistance
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Rural Transit - Operating Assistance

TIP ID: 2853	Agency ID: Part of 0218	Title: Rural Transit - Operating Assistance
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Seniors and Individuals with Disabilities

TIP ID: 6440	Agency ID:	Title: Seniors and Individuals with Disabilities
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Small Urban Systems - Capital

TIP ID: 3012	Agency ID: Part of 0217	Title: Small Urban Systems - Capital
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Small Urban Systems - Operating Assistance

TIP ID: 2594 Agency ID: Part of 0217 Title: Small Urban Transit Systems - Operating Assistance

US 29 Bus Rapid Transit Improvements Project

TIP ID: 6397 Agency ID: MO4622 Title: US 29 Bus Rapid Transit Improvements Project

Bridge

Poplar Hill Road Bridge over Zekiah Swamp Run

TIP ID: 6582 Agency ID: Title: Poplar Hill Road Bridge over Zekiah Swamp Run

Secondary

Various Roads - County Capital Improvement Program

TIP ID: 5494 Agency ID: Title: Study, Design, ROW, & Construction

Bike/Ped

Bikeways & Trails Program - County Capital Improvement Program

TIP ID: 5495 Agency ID: F3 Title: Planning, Design & Construction

Bridge

Various Bridges - County Capital Improvement Program

TIP ID: 3173 Agency ID: F3 Title: Study, Design, ROW, Construction, Inspection & Training

Secondary

Burtonsville Access Road

TIP ID: 3498 Agency ID: P500500 Title: Burtonsville Access Road

Clarksburg Transportation Connections

TIP ID: 6020 Agency ID: P501315 Title: Clarksburg Transportation Connections

Goshen Road South

TIP ID: 3049 Agency ID: P501107 Title: Goshen Road South

MD 355 at Randolph Road/Montrose Parkway (Montrose Parkway East)

TIP ID: 3542 Agency ID: P500717 Title: MD 355 Phase 2 Highway Reconstruction

Montrose Parkway East

TIP ID: 3703 Agency ID: P500717 Title: Montrose Parkway East

Snouffer School Road North

TIP ID: 3062 Agency ID: P501119 Title: Snouffer School Road North

Snouffer School Road: Sweet Autumn Dr. to Centerway Road

TIP ID: 6064 Agency ID: P501109 Title: Snouffer School Road: Sweet Autumn Dr. to Centerway Rd

Bike/Ped

Bethesda CBD Streetscape

TIP ID: 5943 Agency ID: P500102 Title: Bethesda CBD Streetscape

Bicycle Pedestrian Priority Area Improvements

TIP ID: 6365 Agency ID: P501532 Title: Bicycle and Pedestrian Priority Area Improvements

Bikeway Program - Minor Projects

TIP ID: 3066 Agency ID: P507596 Title: Annual Bikeway Program

Capital Crescent Trail

TIP ID: 6015 Agency ID: P501316 Title: Capital Crescent Trail

Falls Road East Side Hiker/Biker Path

TIP ID: 3429 Agency ID: P500905 Title: Falls Road East Side Hiker/Biker Path

Frederick Road Bike Path: Stringtown to Milestone Manor

TIP ID: 6063 Agency ID: P501118 Title: Frederick Road Bike Path: Stringtown to Milestone Manor

MacArthur Boulevard Bikeway Improvements

TIP ID: 5729 Agency ID: P500718 Title: MacArthur Boulevard Bikeway Improvements

Metropolitan Branch Trail

TIP ID: 5942 Agency ID: P501110 Title: Metropolitan Branch Trail

Needwood Road Bikepath

TIP ID: 6016 Agency ID: P501304 Title: Needwood Road Bikepath

Pedestrian Safety Program

TIP ID: 3642 Agency ID: P500333 Title: Pedestrian Safety Program

Seven Locks Bikeway & Safety Improvements

TIP ID: 6017 Agency ID: P501303 Title: Seven Locks Bikeway & Safety Improvements

Sidewalk & Infrastructure Revitalization

TIP ID: 5975 Agency ID: P508182 Title: Sidewalk & Curb Replacement

Sidewalk Program - Minor Projects

TIP ID: 3067 Agency ID: P506747 Title: Sidewalk Program - Minor Projects

Transportation Improvements for Schools

TIP ID: 6364 Agency ID: P509036 Title: Transportation Improvements for Schools

Bridge

Beach Drive Bridge M-PK-24001

TIP ID: 5912 Agency ID: P509132 Title: Beach Drive Bridge M-PK-24001

Bridge Renovation

TIP ID: 6584 Agency ID: M-0043 Title: Mouth of Monocacy Road Bridge Replacement

TIP ID: 5972 Agency ID: P509753 Title: Bridge Renovation

Brink Road Bridge M-0064001

TIP ID: 5913 Agency ID: P509132 Title: Brink Road Bridge M-0064001

Dennis Avenue Bridge Replacement M-0194

TIP ID: 6608 Agency ID: 501701 Title: Dennis Avenue Bridge Replacement M-0194

Garrett Park Road Bridge M-PK-04001

TIP ID: 5916 Agency ID: P509132 Title: Garrett Park Road Bridge M-PK-04001

Gold Mine Road Bridge M-0096001

TIP ID: 5917 Agency ID: P501302 Title: Gold Mine Road Bridge

Park Valley Road Bridge M-PK-03001

TIP ID: 5918 Agency ID: P501523 Title: Park Valley Road Bridge M-PK-03001

Montgomery County

Enhancement

Silver Spring Green Trail

TIP ID: 3125 Agency ID: P509975 Title: Silver Spring Green Trail

ITS

Advanced Transportation Management System

TIP ID: 3065 Agency ID: P509399 Title: Advanced Transportation Management System

Traffic Signal System Modernization

TIP ID: 3648 Agency ID: P500704 Title: Traffic Signal System Modernization

Other

East Gude Drive Roadway Improvements

TIP ID: 6018 Agency ID: P501309 Title: East Gude Drive Roadway Improvements

Intersection & Spot Improvements

TIP ID: 5980 Agency ID: P507017 Title: Intersection & Spot Improvements

Neighborhood Traffic Calming

TIP ID: 5981 Agency ID: P509523 Title: Neighborhood Traffic Calming

Seminary Road Intersection Improvement

TIP ID: 6019 Agency ID: P501307 Title: Seminary Road Intersection Improvement

Streetlight Enhancements - CBD /Town Center

TIP ID: 5982 Agency ID: P500512 Title: Streetlight Enhancements - CBD / Town Center

Traffic Signals

TIP ID: 6065 Agency ID: P507154 Title: Traffic Signals

White Flint District West: Transportation & Workaround

TIP ID: 5986 Agency ID: P501116 & P50 Title: White Flint District West: Transportation & West Workaround

White Flint Traffic Analysis and Mitigation

TIP ID: 5987 Agency ID: P501202 Title: White Flint Traffic Analysis and Mitigation

Maintenance

Bridge Preservation Program

TIP ID: 5971 Agency ID: P500313 Title: Bridge Preservation Program

Resurfacing: Primary/Arterial

TIP ID: 5974 Agency ID: P508527 Title: Resurfacing: Primary / Arterial

Transit

ADA Compliance Transportation Access

TIP ID: 3068 Agency ID: P509325 Title: ADA Compliance Transportation Access

Bethesda Metro South Entrance

TIP ID: 5560 Agency ID: P500929 Title: Bethesda Metro South Entrance

Bus Stop Improvement Program

TIP ID: 3063 Agency ID: P507658 Title: Bus Stop Improvement Program

Low or No Emissions FTA Electric Bus grant

TIP ID: 6616 Agency ID: Title: Low or No Emissions FTA Electric Bus grant

Montgomery County

RideOn Bus Fleet

TIP ID: 3072 Agency ID: P500821 Title: Ride On Bus Fleet

Secondary

Addison Road

TIP ID: 6367 Agency ID: Title: Addison Road I

Auth Road

TIP ID: 5608 Agency ID: Title: Auth Road II

Cherry Hill Road

TIP ID: 6369 Agency ID: Title: Cherry Hill Road III

Contee Road

TIP ID: 3114 Agency ID: Title: Contee Road

Livingston Road and Bridge

TIP ID: 5806 Agency ID: Title: Bridge Replacement - Livingston Road

Oxon Hill Road

TIP ID: 4912 Agency ID: Title: Oxon Hill Road Widening

Traffic Congestion Improvemets

TIP ID: 6373 Agency ID: Title: Traffic Congestion Improvements

Bike/Ped

Pedestrian Safety Improvements

TIP ID: 6370 Agency ID: Title: Pedestrian Safety Improvements

School access project

TIP ID: 6026 Agency ID: Title: School Access Project

Bridge

Bridge Rehabilitation, Federal Aid

TIP ID: 5401 Agency ID: Title: Bridge Replacement, Federal Aid

Governor Bridge Road

TIP ID: 6509 Agency ID: Title: Governor's Bridge Road Bridge Reconstruction

Sunnyside Avenue Bridge Replacement

TIP ID: 5808 Agency ID: Title: Sunnyside Avenue Bridge Replacement

Enhancement

County Revitalization & Restoration 2

TIP ID: 6023 Agency ID: Title: Coounty Revitalization & Restoration 2

Green Street Improvements

TIP ID: 6003 Agency ID: Title: Green/Complete Street Improvements

Planning and site Acquisition 2

TIP ID: 6371 Agency ID: Title: Planning and site acquisition 2

Transportation Enhancements 2

TIP ID: 6374 Agency ID: Title: Transportation Enhancements 2

Other

Developer Contribution Projects

TIP ID: 6024 Agency ID: Title: **Developer Contribution Projects**

Maintenance

ADA Right of Way Modifications

TIP ID: 6012 Agency ID: Title: **Modification of ADA Rights of Way County-Wide**

Curb and Road Rehabilitation I & II

TIP ID: 5609 Agency ID: Title: **Curb and Road rehabilitation II**

Transit

Bus Mass Transit/Metro Access 2

TIP ID: 6375 Agency ID: Title: **Bus Mass Transit/ Metro Access 2**

Safety

Street Lights and Traffic Signals 2

TIP ID: 6372 Agency ID: Title: **Street Lights and Traffic Signals 2**

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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MDOT/State Highway Administration

TIP ID: 2710	Agency ID: AWTA	Title: Areawide Transportation Alternatives	Complete:	Total Cost:	\$19,000
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Facility: Areawide	State	150 a	150 a	100 a	100 a	3,260
From:		40 b	40 b	40 b	40 b	
To:		800 c	800 c	500 c	500 c	
<hr/>						
	STBG	600 a	600 a	400 a	400 a	13,040
		160 b	160 b	160 b	160 b	
		3,200 c	3,200 c	2,000 c	2,000 c	

Total Funds: 16,300

Description: Ongoing program to expand travel choices and enhance the transportation experience by improving the cultural, historic, and environmental aspects of Maryland's transportation infrastructure. These projects may include but are not limited to pedestrian and/or bicycle facilities; rehabilitation of historic transportation facilities, including railroad facilities and canals; conversion and use of abandoned railway corridors; archaeological activities related to transportation impacts; and mitigation of water pollution due to highway runoff. This program includes also Safe Routes to School and National Recreational Trails projects.

TIP ID: 2894	Agency ID: PG3331	Title: I-95/I-495 at Greenbelt Metro Station Interchange Construction	Complete: 2030	Total Cost:	\$171,000
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Facility: I 95 at Greenbelt Metro Station	HPP	1,000 a				
From:						
To:	NHPP	7,828 a	200 a			200
<hr/>						
	State	3,440 a	56 a			56
		129 b				
		824 c				

Total Funds: 256

Description: Construction of a full I-95/I-495 interchange at Greenbelt Metro Station.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3038 Agency ID: AWEN Title: Areawide Environmental Projects			Complete:		Total Cost:		\$162,000
Facility: Areawide	HSIP		90 a	90 a	72 a	72 a	1,620
From:			9 b	9 b	9 b	9 b	
To:			360 c	360 c	270 c	270 c	
	NHPP		480 a	480 a	360 a	360 a	4,544
			16 b	16 b	16 b	16 b	
			800 c	800 c	600 c	600 c	
	State		430 a	430 a	338 a	338 a	27,412
			9 b	9 b	9 b	9 b	
			10,240 c	7,240 c	4,180 c	4,180 c	
	STBG		1,200 a	1,200 a	960 a	960 a	104,384
			16 b	16 b	16 b	16 b	
			40,000 c	28,000 c	16,000 c	16,000 c	
Total Funds:							137,960

Description: Ongoing program to provide environmental and aesthetic improvements on MDOT SHA highways. These are non-capacity improvements that may include but are not limited to noise abatement, wetlands, reforestation, landscaping, scenic beautification, and pedestrian or bicycle facilities.

TIP ID: 3044 Agency ID: MO3511 Title: I-270 at Watkins Mill Road Interchange Construction			Complete: 2021		Total Cost:		\$120,000
Facility: I 270 at Watkins Mill Road	Local		4,900 a				
From:	NHPP		5,576 a	809 b	600 b	1,211 b	2,620
To:			7,196 b				
	State		1,314 a	26,249 c	27,230 c	15,616 c	69,095
			8 b				
			28,953 c				
Total Funds:							71,715

Description: Construct a new I-270 interchange at Watkins Mill Road.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3081 Agency ID: AWBR		Title: Areawide Bridge Replacement and Rehabilitation			Complete:	Total Cost:	\$100,000
Facility: Areawide	NHPP		800 a	800 a	640 a	640 a	14,720
From:			160 b	160 b	160 b	160 b	
To:			3,200 c	3,200 c	2,400 c	2,400 c	
<hr/>							
	State		1,800 a	1,800 a	1,760 a	1,160 a	15,040
			80 b	80 b	80 b	80 b	
			2,300 c	2,300 c	1,800 c	1,800 c	
<hr/>							
	STBG		6,400 a	6,400 a	6,400 a	4,000 a	45,440
			160 b	160 b	160 b	160 b	
			6,000 c	6,000 c	4,800 c	4,800 c	
							Total Funds: 75,200

Description: Ongoing program to provide major upgrades to and maintenance of structures on MDOT SHA highways. These are non-capacity improvements that may include but are not limited to structural replacements, deck rehabilitation, superstructure replacements, parapet reconstruction, cleaning and painting, and general maintenance.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3082 Agency ID: AWRR		Title: Areawide Resurfacing and Rehabilitation			Complete:	Total Cost:	\$286,000
Facility: Areawide	HSIP		18 a	18 a	18 a	18 a	6,408
From:			9 b	9 b	9 b	9 b	
To:			1,800 c	1,800 c	1,350 c	1,350 c	
<hr/>							
	NHPP		480 a	480 a	360 a	360 a	134,000
			80 b	80 b	80 b	80 b	
			48,000 c	48,000 c	24,000 c	12,000 c	
<hr/>							
	State		242 a	242 a	182 a	182 a	50,712
			41 b	41 b	41 b	41 b	
			18,200 c	18,200 c	9,150 c	4,150 c	
<hr/>							
	STBG		480 a	480 a	360 a	360 a	66,000
			80 b	80 b	80 b	80 b	
			24,000 c	24,000 c	12,000 c	4,000 c	
							Total Funds: 257,120

Description: Ongoing program to provide periodic resurfacing and upgrading or auxiliary features on MDOT SHA highways. These are non-capacity improvements that may include but are not limited to milling, patching, sealing, and resurfacing of existing deteriorated MDOT SHA roadways. Other improvements, including ADA improvements and guardrails, may be included where incidental to other resurfacing improvements.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3083 Agency ID: AWUR		Title: Areawide Urban Reconstruction				Complete:		Total Cost: \$32,000
Facility: Areawide	NHPP			160 a	160 a	160 a	160 a	8,400
From:				20 b	20 b	20 b	20 b	
To:				2,400 c	2,400 c	1,440 c	1,440 c	
	State			80 a	80 a	80 a	80 a	5,480
				10 b	10 b	10 b	10 b	
				1,600 c	1,600 c	960 c	960 c	
	STBG			160 a	160 a	160 a	160 a	13,520
				20 b	20 b	20 b	20 b	
				4,000 c	4,000 c	2,400 c	2,400 c	
Total Funds:								27,400

Description: Ongoing program to provide roadway rehabilitation on MDOT SHA highways in municipalities and urban areas. These are non-capacity improvements that may include but are not limited to drainage improvements, curbs and gutters, pavement milling and resurfacing, sidewalks, streetscaping, signage, and marking and lighting improvements.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3084 Agency ID: AWSS Title: Areawide Safety and Spot Improvements			Complete:		Total Cost:		\$135,000
Facility: Areawide	CMAQ		200 a	200 a	150 a	150 a	10,240
From:			10 b	10 b	10 b	10 b	
To:			5,000 c	2,500 c	1,000 c	1,000 c	
	HSIP		450 a	450 a	360 a	360 a	6,840
			90 b	90 b	90 b	90 b	
			1,350 c	1,350 c	1,080 c	1,080 c	
	NHPP		960 a	960 a	800 a	800 a	31,840
			80 b	80 b	80 b	80 b	
			8,000 c	8,000 c	6,000 c	6,000 c	
	State		790 a	790 a	640 a	640 a	18,600
			50 b	50 b	50 b	50 b	
			4,550 c	4,550 c	3,220 c	3,220 c	
	STBG		2,000 a	2,000 a	1,600 a	1,600 a	39,520
			80 b	80 b	80 b	80 b	
			9,600 c	9,600 c	6,400 c	6,400 c	
Total Funds:							107,040

Description: Ongoing program to provide localized improvements to address safety and/or operational issues on MDOT SHA highways. These are highway improvements that may include but are not limited to bypass lanes, acceleration and deceleration lanes, turn lanes, rail crossings, intersection realignment, geometric improvements, safety improvements including bridge, bicycle, and pedestrian safety improvements, pavement markers, ADA improvements, guardrails, and roundabouts. Other improvements, including slope repairs, drainage improvements, and joint sealing, may be included where incidental to other safety improvements.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3085 Agency ID: AWCM Title: Areawide Congestion Management					Complete:	Total Cost:	\$71,000
Facility: Areawide	CMAQ		500 a	500 a	400 a	400 a	3,640
From:			10 b	10 b	10 b	10 b	
To:			500 c	500 c	400 c	400 c	
<hr/>							
	NHPP		640 a	640 a	400 a	400 a	5,616
			4 b	4 b	4 b	4 b	
			960 c	960 c	800 c	800 c	
<hr/>							
	State		1,160 a	1,160 a	800 a	800 a	10,412
			3 b	3 b	3 b	3 b	
			1,840 c	1,840 c	1,400 c	1,400 c	
<hr/>							
	STBG		4,000 a	4,000 a	2,800 a	2,800 a	36,032
			8 b	8 b	8 b	8 b	
			6,400 c	6,400 c	4,800 c	4,800 c	
							Total Funds: 55,700

Description: Ongoing program to provide traffic control, management, and monitoring on MDOT SHA highways. These are non-capacity improvements that may include but are not limited to variable message signs, video for traffic management (CCTV), traffic management detectors, signal systemization and remote timing, permanent congestion monitoring systems employed by the CHART program, deployment of local jurisdiction intelligent transportation system (ITS) projects, and the development of park-and-ride facilities.

TIP ID: 3104 Agency ID: MO8541 Title: MD 97 at Randolph Road Interchange Construction					Complete: 2018	Total Cost: \$80,000	
Facility: MD 97 at Randolph Road	Local		13,354 b				
From:			3,922 c				
To:							
<hr/>							
	NHPP		303 b				
			30,356 c				
<hr/>							
	State		1,666 a	1,000 b	1,000 b	3,234 b	5,334
			4,432 b	100 c			
			9,842 c				
<hr/>							
	STBG		5,460 a				
			1,922 b				
			3,553 c				
							Total Funds: 5,334

Description: Construction of a new MD 97 interchange at Randolph Road.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3106 Agency ID: MO7461 Title: MD 97 at Brookeville Highway Construction					Complete: 2021	Total Cost:	\$48,000
Facility: MD 97	Local	8,723 a	200 b				200
From: Gold Mine Road		414 b					
To: North of Brookeville							
	NHPP	1,594 a					
	State	470 a	204 b	84 b	7,409 c		35,941
		61 b	10,348 c	17,896 c			
		222 c					
Total Funds:							36,141

Description: Construction of new two-lane MD 97 from south of Brookeville, near Gold Mine Road, to north of Brookeville.

TIP ID: 3108 Agency ID: PG6241 Title: US 1 Highway Reconstruction					Complete: 2024	Total Cost:	\$44,000
Facility: US 1	NHPP	6,673 a	1,098 a	605 b	605 b	605 b	26,778
From: College Avenue			454 b	6,030 c	7,137 c	8,251 c	
To: MD 193			1,993 c				
	State	403 a	114 a	171 b	171 b	171 b	7,379
		1,674 b	148 b	1,701 c	2,013 c	2,327 c	
			563 c				
Total Funds:							34,157

Description: Reconstruction of US 1 between College Avenue and MD 193.

TIP ID: 3150 Agency ID: PG6541 Title: MD 450 Highway Reconstruction					Complete: 2030	Total Cost:	\$61,000
Facility: MD 450	State	312 a	97 a				97
From: Stonybrook Drive							
To: West of MD 3	STBG	1,189 a	138 a				138
Total Funds:							235

Description: Widening of MD 450 to a multilane divided highway from Stonybrook Drive to west of MD 3.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3476 Agency ID: MO8861 Title: MD 28/MD 198 Corridor Study			Complete: 2045		Total Cost: \$262,000		
Facility: MD 28 Norbeck Road and MD 198	State	4,056 a	300 a				300
From: MD 97							
To: I 95	STBG	3,207 a					
							Total Funds: 300

Description: A study examining capacity improvements in the MD 28/MD 198 corridor between MD 97 and I-95.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3547 Agency ID: PG6181 Title: MD 4 at Suitland Parkway Interchange Construction			Complete: 2020		Total Cost: \$131,000		
Facility: MD 4 at Suitland Parkway	HPP	3,964 c	4,187 c	4,601 c	5,998 c		14,786
From:	NHFP	4,000 c	2,816 c	2,816 c	2,816 c		8,448
To:	NHPP	7,088 a	11,871 c	13,325 c	18,222 c		43,418
		8,556 b					
		9,906 c					
	State	5,239 a	7,073 b	4,693 b	1,945 c		16,604
		5,596 b	1,380 c	1,513 c			
		3,847 c					
							Total Funds: 83,256

Description: Construction of a new MD 4 interchange at Suitland Parkway.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3566 Agency ID: AWCC Title: Commuter Connections Program			Complete:		Total Cost: \$21,000		
Facility: Areawide	State		3,161 e	3,265 e	3,553 e	3,434 e	13,413
From:							
To:							
							Total Funds: 13,413

Description: The Commuter Connections Program works to reduce the number of vehicle miles traveled, vehicle trips, and emissions. This program provides funding to TPB's Commuter Connections program for the following projects: Commuter Operations Center, Guaranteed Ride Home, marketing, monitoring and evaluation, employer outreach, and the telecommute project.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 4879 Agency ID: PG7001 Title: MD 210 at Kerby Hill Road/Livingston Road Interchange Construction					Complete: 2020	Total Cost: \$118,000	
Facility: MD 210 at Kerby Hill Road/Livingston Road	HPP	4,449 a					
From:							
To:	NHPP	32 a	1,641 b	1,504 b			49,548
		1,324 b	41,901 c	4,502 c			
		39,439 c					
	State	1,211 a	640 a	376 b			4,495
		8,202 b	753 b	264 c			
		8,880 c	2,462 c				
	STBG	32 a					
Total Funds:							54,043

Description: Construction of a new MD 210 interchange at Kerby Hill Road/Livingston Road.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 4881 Agency ID: CH2031 Title: US 301 at MD 228/MD 5BU Interchange Construction					Complete: 2030	Total Cost: \$140,000	
Facility: US 301 at MD 228/MD 5BU	NHPP	7,909 a	83 a	450 a			533
From:							
To:	State	3,871 a	517 a	330 a	238 a		1,085
Total Funds:							1,618

Description: A study examining alternatives for a grade separated interchange at US 301 at MD 228/MD 5 Business.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 4882 Agency ID: PG1751 Title: MD 5 at MD 373 and Brandywine Road Interchange Construction					Complete: 2019	Total Cost:	\$56,000
Facility: MD 5 at MD 373 and Brandywine Road	HPP	4,631 a					
From:		7,307 c					
To:							
	Local	792 c	2,632 c	1,685 c			4,317
	NHPP	728 b	176 b	6,979 c			15,924
		8,486 c	8,769 c				
	State	1,668 a	583 b	445 b			1,767
		4,030 b	412 c	327 c			
		5,443 c					
	STBG	411 a					
	TCSP	160 a					
		247 b					
Total Funds:							22,008

Description: Construction of a new MD 5 interchange at MD 373 and Brandywine Road. This project also includes construction of a park-and-ride lot.

TIP ID: 4887 Agency ID: PG6911 Title: MD 197 Highway Reconstruction					Complete: 2025	Total Cost:	\$91,000
Facility: MD 197	State	3,825 a	2,700 a	2,500 a	2,125 a	1,000 a	8,325
From: Kenhill Drive							
To: MD 450							
Total Funds:							8,325

Description: Widening of and upgrades to MD 197 to become a multilane freeway between Kenhill Drive and MD 450.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 4892 Agency ID: FR5711 Title: US 15 at Monocacy Boulevard Interchange Construction						Complete: 2018	Total Cost: \$73,000	
Facility: US 15 at Monocacy Boulevard/Christopher's	Local	3,009 a						
From:								
To:	NHPP	432 a						
		23,138 b						
	PL	226 a						
	State	806 a	204 b	136 b			5,130	
		7,101 b	4,790 c					
		32,985 c						
	TCSP	553 a						
							Total Funds:	5,130

Description: Construction of a grade-separated US 15 interchange at Monocacy Boulevard, including a park-and-ride lot.

TIP ID: 5420 Agency ID: MO2241 Title: MD 97 at Montgomery Hills Highway Reconstruction						Complete: 2025	Total Cost: \$52,000	
Facility: MD 97	Local	3,044 a						
From: MD 390								
To: MD 192	State	420 a	580 a				580	
							Total Funds:	580

Description: A study evaluate MD 97 safety and accessibility improvements between MD 390 and MD 192.

TIP ID: 6071 Agency ID: MO5938 Title: MD 185 at Jones Bridge Road and Kensington Parkway Phase 3 BRAC I						Complete: 2020	Total Cost: \$17,000	
Facility: MD 185 at Jones Bridge Road and Kensington	OEA	6,561 b	600 b	370 b	1,186 b		10,922	
From:			1,512 c	4,405 c	2,849 c			
To:								
	State	3 b						
							Total Funds:	10,922

Description: Construction of MD 185 Phase 3 intersection improvements at Jones Bridge Road and Kensington Parkway to improve access to Naval Support Activity Bethesda.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6122 Agency ID: MO5934 Title: MD 355 BRAC Highway Improvements			Complete: 2020			Total Cost:	\$4,300
Facility: MD 355	OEA	752 c	2,393 c	1,149 c			3,542
From: Woodmont Avenue/Glenbrook Parkway							
To: South Wood Road/South Drive	State	5 c	1 c	1 c			2
Total Funds:							3,544

Description: Construction of MD 355 intersection improvements between Woodmont Avenue/Glenbrook Parkway and South Wood Road/South Drive to improve access to Naval Support Activity Bethesda. This project is being designed and constructed in conjunction with Montgomery County's MD 355 Crossing design/build project, which includes a MD 355 pedestrian underpass providing access to Medical Center Metro Station.

TIP ID: 6395 Agency ID: PG5971 Title: MD 5 at Linda Lane Intersection Improvements			Complete: 2030			Total Cost:	\$46,000
Facility: MD 5 at Linda Lane	NHPP	366 a	742 a	793 a	677 a	480 a	2,692
From:							
To:	State	42 a					
Total Funds:							2,692

Description: Construction of MD 5 intersection improvements at Linda Lane.



TIP ID: 6411 Agency ID: FR5801 Title: I-70/US 40 at MD 144FA, Meadow Road, and Old National Pike Interchan			Complete: 2024			Total Cost:	\$21,000
Facility: I 70 at MD 144FA	Local	3,300 b				4,250 c	4,250
From:		6,500 c					
To:	PRIV	2,900 a					
	State	252 a					
Total Funds:							4,250

Description: Construction of two missing I-70/US 40 ramp movements at MD 144FA, Meadow Road, and Old National Pike, including entry ramp to westbound I-70/US 40 and exit ramp from eastbound I-70/US 40.





TIP ID: 6431 Agency ID: FR1881 Title: US 15/US 40 Frederick Freeway Highway Reconstruction			Complete: 2030			Total Cost:	\$141,000
Facility: US 15 /US 40	State	2,502 a	1,400 a	1,265 a	1,081 a		3,746
From: I 70							
To: MD 26							
Total Funds:							3,746

Description: Reconstruction of US 15 and US 40 between I-70 and MD 26.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6432 Agency ID: AW0731 Title: I-495 and I-270 P3 Project (Traffic Relief Plan)			Complete: 2025		Total Cost: \$7,600,000		
Facility: I 270 /I 270Y /I 495	State	8,000 a	27,500 a	40,000 a	43,960 a	18,000 a	129,460
From:							
To:							Total Funds: 129,460
Description: Planning activities in support of the Traffic Relief Plan Phase 1, which will implement express toll lanes along I-270, between I-495 and I-70, and I-495, between the American Legion and Woodrow Wilson bridges.							

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6437 Agency ID: PG6981 Title: I-95/I-495 Suitland Road Bridges Replacement			Complete: 2020		Total Cost: \$36,000		
Facility: I 95 /I 495 at Suitland Road	NHPP	1,448 a					
From:							
To:	State	429 a	10,138 c	10,021 c			20,159
		13,846 c					
							Total Funds: 20,159
Description: Replacement of I-95/I-495 bridges 1616205 and 1616206 and Suitland Road. 							

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6438 Agency ID: PG6982 Title: I-95/I-495 Suitland Parkway Bridges Replacement			Complete: 2021		Total Cost: \$41,000		
Facility: I 95 /I 495 at Suitland Parkway	NHFP		1,500 c	1,500 c	6,057 c		9,057
From:							
To:	NHPP		8,006 c	13,051 c	5,743 c		26,800
	State	1,394 a	1,034 c	1,582 c	1,283 c		3,899
		2 c					
							Total Funds: 39,756
Description: Replacement of I-95/I-495 bridges 1616005 and 1616006 over Suitland Parkway. 							

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6444 Agency ID: MO0691 Title: I-270 Innovative Congestion Management			Complete: 2021		Total Cost: \$114,000		
Facility: I 270	State	2,061 a	28,747 c	30,316 c	30,293 c		89,356
From: I 495		22,697 c					
To: I 70							
							Total Funds: 89,356
Description: Pilot implementation of active traffic management (ATM) and innovative congestion mitigation (ICM) tools to reduce congestion on I-270, including the east and west spurs (31.5 miles). Includes requisite noise abatement.							

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6483 Agency ID: FR3881 Title: MD 85 Phase 1 Highway Reconstruction			Complete: 2021 Total Cost: \$86,000				
Facility: MD 85	HPP	2,068 a					
From: Crestwood Boulevard/Shockley Drive		2,234 c					
To: Spectrum Drive							
	Local	1,478 a					
	NHPP	451 a	2,388 b	796 b	12,728 c	10,946 c	49,729
		597 b	10,306 c	12,565 c			
		3,455 c					
	State	2,603 a	1,397 b	897 b	2,961 c	2,553 c	13,126
		8,805 b	2,395 c	2,923 c			
		1,392 c					

Total Funds: 62,855

Description: Widen to a multilane divided highway from Crestwood Boulevard /Shockley Drive to Spectrum Drive, including MD 85 interchange reconstruction at I-270 and I-270 dual bridges replacement.

TIP ID: 6486 Agency ID: FR5591 Title: MD 355 CSX Old Main Line Subdivision Bridge Replacement			Complete: 2019 Total Cost: \$14,000				
Facility: MD 355 at CSX Old Main Line Subdivision	State	522 a	246 b	246 b	184 b		9,387
From:		74 b	4,557 c	3,368 c	786 c		
To:		2,588 c					
	STBG	1,348 a					

Total Funds: 9,387

Description: Replacement of MD 355 bridge 10084 over the CSX Old Main Line Subdivision.



TIP ID: 6487 Agency ID: PG0461 Title: MD 381 Timothy Branch Bridge Replacement			Complete: 2018 Total Cost: \$3,600				
Facility: MD 381 at Timothy Branch	State	870 a	1,434 c				1,434
From:		110 b					
To:		1,219 c					

Total Funds: 1,434

Description: Replacement of MD 381 bridge 1630500 over Timothy Branch.



**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6488 Agency ID: FR3501		Title: US 40AL Urban Reconstruction			Complete: 2019		Total Cost: \$18,000
Facility: US 40 AL	Local	1,419 c	2,381 c				2,381
From: Ivy Hill Road	NHPP	6,487 c	3,847 c				3,847
To: Middletown Parkway	State	1,859 a 235 b	54 b	41 b 46 c	15 c		156
	STBG	1,603 a					
Total Funds:							6,384

Description: Reconstruction of US 40 AL from Ivy Hill Drive to Middletown Parkway.



TIP ID: 6489 Agency ID: FR6781		Title: MD 180 Highway Reconstruction			Complete: 2020		Total Cost: \$18,000
Facility: MD 180	State	2,380 a	578 a	29 b	29 b	10 b	4,040
From: I-70 (Western Crossing)		33 b	29 b	1,189 c	1,346 c	542 c	
To: I-70 (Eastern Crossing)			288 c				
	STBG		1,021 c	4,216 c	4,771 c	1,920 c	11,928
Total Funds:							15,968

Description: Reconstruct MD 180 from 600 feet north of the western crossing of I-70 to the eastern crossing of I-70, including constructing second MD 180 bridge over US 15/US 340.



TIP ID: 6518 Agency ID: FR1321		Title: MD 355 Bennett Creek Bridge Replacement			Complete: 2020		Total Cost: \$17,000
Facility: MD 355 at Bennett Creek	State	743 a	96 a	1,304 c	687 c		3,305
From:		3 c	426 b				
To:			792 c				
	STBG	1,812 a	244 a 2,880 c	4,906 c	2,869 c		10,899
Total Funds:							14,204

Description: Replacement of MD 355 bridge 10086 over Bennett Creek.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6522 Agency ID: PG1272 Title: I-95/I-495 MD 214 Bridges Replacement			Complete: 2021		Total Cost: \$36,000		
Facility: I 95 /I 495 at MD 214	NHFP		1,925 c	1,672 c	1,672 c		5,269
From:	NHPP		4,918 c	12,111 c	5,002 c		22,031
To:	State	1,294 a	1,930 c	3,888 c	1,882 c		7,700
							Total Funds: 35,000

Description: Replacement of I-95/I-495 bridges 1615305 and 1615306 over MD 214.

TIP ID: 6524 Agency ID: PG2211 Title: MD 210 Corridor Study			Complete: 2040		Total Cost: \$456,000		
Facility: MD 210	NHPP	1 a		2,523 a	2,553 a	2,554 a	7,630
From: I 95	State	3,058 a					
To: MD 228		982 b					
							Total Funds: 7,630

Description: Multimodal transportation study to relieve traffic congestion along MD 210 and improve intersections from I-95/I-495 to MD 228.

TIP ID: 6529 Agency ID: PG1061 Title: MD 212A Urban Reconstruction			Complete: 2020		Total Cost: \$19,000		
Facility: MD 212 A	State	145 a	537 b	491 b	317 b		2,772
From: Pine Street		2,100 b	151 c	893 c	383 c		
To: US 1	STBG	3,687 a	8 a	1,682 b	1,121 b		10,063
			1,542 b	3,572 c	1,531 c		
			607 c				
							Total Funds: 12,835

Description: MD 212A reconstruction from Pine Street to US 1.

TIP ID: 6532 Agency ID: MO4271 Title: MD 355 Little Bennett Creek Bridge Replacement			Complete: 2020		Total Cost: \$9,700		
Facility: MD 355 at Little Bennett Creek	State	1,607 a	12 a	6 b	6 b	4 b	1,660
From:		23 b	26 b	863 c	304 c		
To:			439 c				
			238 a	1,666 c	3,299 c	1,163 c	6,128
							Total Funds: 7,788

Description: Replacement of MD 355 Bridge 15053 over Little Bennett Creek.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6590 Agency ID: PG3641 Title: MD 500 at Mount Rainier/Chillum Urban Reconstruction			Complete: 2021		Total Cost:		\$19,000
Facility: MD 500	State	3,842 a	487 b	487 b	122 b	272 c	3,161
From: MD 208		1,401 b	164 c	946 c	683 c		
To: Eastern Avenue							
	STBG	2,943 b	578 c	3,357 c	2,423 c	962 c	7,320
Total Funds:							10,481

Description: Construction of landscaped median with sidewalk and crosswalk improvements from MD 208 to Eastern Avenue.

TIP ID: 6591 Agency ID: FR1021 Title: MD 478 Potomac River Branch Bridge Repalcement			Complete: 2019		Total Cost:		\$6,300
Facility: MD 478 at Potomac River Branch	NHPP	448 c	2,083 c	1,417 c			3,500
From:							
To:	State	471 a	27 b	27 b	32 b		1,074
		338 b	573 c	415 c			
		116 c					
	STBG	348 a					
Total Funds:							4,574

Description: Replacement of MD 478 bridge 10089 over a branch of the Potomac River.

TIP ID: 6603 Agency ID: CH2261 Title: MD 254 Neale Sound Bridge Replacement			Complete: 2020		Total Cost:		\$17,000
Facility: MD 254 at Neale Sound	State	2,148 a	19 b	8 b	8 b	4 b	13,227
From:		81 b	7,636 c	5,552 c			
To:		1,634 c					
Total Funds:							13,227

Description: Replacement of MD 254 bridge 08038 over Neale Sound.



TIP ID: 6619 Agency ID: FR6541 Title: MD 464 Little Catoctin Creek Replacement			Complete: 2021		Total Cost:		\$4,700
Facility: MD 464 at Little Catoctin Creek	State	315 a	3 b	1 b	1 b	1 b	801
From:		15 b	265 c	501 c	29 c		
To:							
	STBG	781 a	915 c	1,737 c	101 c		2,753
Total Funds:							3,554

Description: Replace bridge 10090 over Little Catoctin Creek.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6620 Agency ID: FR7051 Title: MD 355 Monocacy River Bridge Replacement			Complete: 2024		Total Cost:		\$2,400
Facility: MD 355 at the Monocacy River	State	14 a	122 a	145 a	145 a	49 a	461
From:							
To:	STBG	56 a	479 a	577 a	577 a	192 a	1,825
Total Funds:							2,286

Description: Replacement of MD 355 bridge 10085 over the Monocacy River.

TIP ID: 6635 Agency ID: CH2032 Title: US 301 at MD 5 Interchange Construction			Complete: 2024		Total Cost:		\$54,000
Facility: US 301 at MD 5 (Mattawoman-Beantown Ro	NHPP	160 a					
From:							
To:	State		400 a	520 a	158 a		14,078
			13,000 c				
Total Funds:							14,078

Description: Construction of a new flyover interchange on US 301 at MD 5 (Mattawoman-Beantown Road).

TIP ID: 6645 Agency ID: CH1681 Title: MD 225 Mattawoman Creek Bridge Replacement			Complete: 2022		Total Cost:		\$3,200
Facility: MD 225 at Mattawoman Creek	State	186 a	277 a	295 a	295 a	123 a	990
From:							
To:							
Total Funds:							990

Description: Replacement of MD 225 bridge 08022 over Mattawoman Creek.

TIP ID: 6646 Agency ID: PG0671 Title: MD 382 Charles Branch Bridge Replacement			Complete: 2022		Total Cost:		\$1,200
Facility: MD 382 at Charles Branch	State	439 a	542 a	196 a			738
From:							
To:							
Total Funds:							738

Description: Replacement of MD 382 bridge 16061 over Charles Branch.

TIP ID: 6647 Agency ID: PG9671 Title: Riverdale Road Anacostia River Branch Bridge Replacement			Complete: 2023		Total Cost:		\$1,200
Facility: Riverdale Road at Anacostia River Branch	State	333 a	178 a	190 a	190 a	190 a	748
From:							
To:							
Total Funds:							748

Description: Replacement of Riverdale Road bridge 16069 over a branch of the Anacostia River.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6648 Agency ID: FR1541 Title: MD 77 Beaver Branch Bridge Replacement					Complete:	Total Cost:	\$1,200
Facility: MD 77 at Beaver Branch	State	333 a	622 a	221 a			843
From:							
To:						Total Funds:	843
Description: Replacement of MD 77 bridge 10054 over Beaver Branch.							

TIP ID: 6649 Agency ID: FR6991 Title: MD 26 Westbound Monocacy River Bridge Replacement					Complete:	Total Cost:	\$1,800
Facility: MD 26 at the Monocacy River	State	13 a	497 a	537 a	537 a	179 a	1,750
From:							
To:						Total Funds:	1,750
Description: Replacement of westbound MD 26 bridge 10025 over the Monocacy River.							

TIP ID: 6651 Agency ID: PG0191 Title: I-95/I-495 MD 4 Bridges Replacement					Complete:	Total Cost:	\$21,000
Facility: I 95 /I 495 at MD 4	State	51 a	309 a	337 a	337 a	141 a	1,124
From:							
To:						Total Funds:	1,124
Description: Replacement of I-95/I-495 bridges 1615905 and 1615906 over MD 4.							

TIP ID: 6652 Agency ID: PG2402 Title: MD 210 Henson Creek Bridge Replacement					Complete:	Total Cost:	\$1,800
Facility: MD 210 at Henson Creek	State	63 a	347 a	378 a	378 a	378 a	1,481
From:							
To:						Total Funds:	1,481
Description: Replacement of MD 210 bridge 16036 over Henson Creek.							

TIP ID: 6653 Agency ID: PG2582 Title: MD 4 Race Track Road Bridges Replacement					Complete:	Total Cost:	\$11,000
Facility: MD 4 at Race Track Road	State	111 a	296 a	318 a	318 a	132 a	1,064
From:							
To:						Total Funds:	1,064
Description: Replacement of MD 4 bridges 1610803 and 1610804 over Race Track Road.							

TIP ID: 6654 Agency ID: PG7201 Title: MD 717 Western Branch Bridge Replacement					Complete:	Total Cost:	\$2,700
Facility: MD 717 at Western Branch	State	715 a	10 a				10
From:							
To:						Total Funds:	10
Description: Replacement of MD 717 bridge 16109 over Western Branch.							

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6655 Agency ID: PG7751 Title: I-95/I-495 MD 414 Bridges Replacement			Complete:		Total Cost:		\$21,000
Facility: I 95 / I 495 at MD 414	State	694 a	250 a				250
From:							
To:							Total Funds: 250
Description: Replacement of I-95/I-495 bridges 1616705 and 1616706 over MD 414.							

TIP ID: 6656 Agency ID: PG7752 Title: I-95/I-495 Good Luck Road Bridges Replacement			Complete:		Total Cost:		\$2,400
Facility: I 95 / I 495 at Good Luck Road	NHPP		353 a	385 a	385 a	385 a	1,508
From:							
To:	State		39 a	43 a	43 a	43 a	168
							Total Funds: 1,676
Description: Replacement of I-95/I-495 bridges 1614305 and 1614306 over Good Luck Road.							

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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MDOT/Maryland Transportation Authority

TIP ID: 5527	Agency ID:	Title: Governor Harry W. Nice Bridge Improvement Project	Complete: 2023	Total Cost: \$768,600
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Facility: US Bridge over Potomac	State	0/100/0	19,959 a	2,825 b	2,025 b	1,080 b	268,600 c	555,230
From: Charles County, MD			4,733 b		83,800 c	196,900 c		

To: King George County, VA

Total Funds: 555,230

Description: Construct a new four-lane bridge north of the existing bridge, with a barrier-separated, two-way bicycle/pedestrian path on the south side of the bridge. Included in the project is preventative maintenance of the existing bridge until the construction phase is programmed.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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MDOT/Maryland Transit Administration

TIP ID: 2594	Agency ID: Part of 0217	Title: Small Urban Transit Systems - Operating Assistance	Complete:	Total Cost:				
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Facility:	Sect. 5307	50/25/25	40,668 e	8,963 e	8,963 e	8,963 e	8,963 e	35,852
From:								
To:								Total Funds: 35,852
Description: Operating assistance to small urban transit systems in Charles and Frederick Counties								

TIP ID: 2602	Agency ID: Part of 0218	Title: Rural Transit - Capital Assistance	Complete:	Total Cost:				
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Facility:	Sect. 5311	80/10/10	617 e	70 e	70 e	70 e	70 e	280
From:								
To:								Total Funds: 280
Description: Capital assistance for rural transit service in Frederick County								

TIP ID: 2713	Agency ID: 0892/0893	Title: Large Urban Systems - Capital	Complete:	Total Cost:				
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Facility:	Sect. 5307	80/20/0	13,140 e	2,500 e	2,500 e	2,500 e	2,500 e	10,000
From:								
To:								Total Funds: 10,000
Description: Capital assistance for large urban transit service in Prince George's and Montgomery Counties.								

TIP ID: 2795	Agency ID:	Title: Purple Line	Complete: 2022	Total Cost: \$2,410,000				
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Facility: Purple Line	P3	0/0/0	64,540 c	17,330 c	17,330 c	17,330 c	17,330 c	69,320
From: Bethesda								
To: New Carrollton	Sect. 5307	80/20/0	37,250 c	12,500 c	6,250 c	6,250 c	6,250 c	31,250
	Sect. 5309-NS	80/20/0	83,000 a	145,000 c	145,000 c	145,000 c	145,000 c	580,000
			110,000 b					
			550,000 c					
	State	0/100/0	208,074 c	26,903 c	26,903 c	26,903 c	26,903 c	107,612
	TIFIA	100/0/0	890,000 c					

Total Funds: 788,182

Description: Construction of a 16 mile transitway that would operate between Bethesda and Silver Spring in Montgomery County and extend into Prince Georges County to connect with the Metrorail system at College Park and New Carrollton. The Bethesda to Silver Spring portion would include a parallel hiker/biker trail. The project would provide direct connections to both branches of the Metrorail Red Line, Green Line and Orange Line. The Purple Line would also link to all three MARC lines, AMTRAK and regional/local bus services. The project would include 21 stations. Ridership for 2040 is estimated at approximately 74,000 daily boardings. A TIFIA loan of \$890 million was obligated in 2016 and utilized by the P3 concessionaire from 2016-2022.



**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 2853 Agency ID: Part of 0218 Title: Rural Transit - Operating Assistance			Complete:		Total Cost:		
Facility:	Sect. 5311	50/25/25	14,968 e	1,374 e	1,374 e	1,374 e	5,496
From:							
To:							
Description: Operating assistance for rural service in Charles, Frederick, Montgomery, and Prince George's counties							Total Funds: 5,496

TIP ID: 3012 Agency ID: Part of 0217 Title: Small Urban Systems - Capital			Complete:		Total Cost:		
Facility:	Sect. 5307	80/10/10	16,277 e	4,223 e	4,223 e	4,223 e	16,892
From:							
To:	Sect. 5339(a)	80/10/10	1,800 e				
Description: Capital Assistance for Small Urban Transit services in Charles and Frederick counties.							Total Funds: 16,892

TIP ID: 3760 Agency ID: Title: Ridesharing - Statewide Program			Complete:		Total Cost:		
Facility:	CMAQ	100/0/0	3,723 e	873 e	873 e	873 e	3,492
From:							
To:							
Description: To promote and encourage the establishment of carpools and vanpools. The ridesharing project covers the activities of the ridesharing unit of the Statewide Transportation Program with coordinators in Frederick, Prince George's, Montgomery Counties, and the Tri-County Council of Southern Maryland.							Total Funds: 3,492

TIP ID: 6147 Agency ID: Title: Large Urban Systems - Preventive Maintenance			Complete:		Total Cost:		
Facility:	Sect. 5307	80/20/0	22,220 e	5,555 e	5,555 e	5,555 e	22,220
From:							
To:							
Description: Large Urban Operating Preventative Maintenance for Montgomery County.							Total Funds: 22,220

TIP ID: 6397 Agency ID: MO4622 Title: US 29 Bus Rapid Transit Improvements Project			Complete: 2020		Total Cost: \$39,104		
Facility: US 29	ARRA/TIGER	26/0/74	32,604 c	10,000 c			10,000
From: MD 410							
To: MD 198	Local	0/0/100	6,500 a	15,500 c	2,000 c		
	State	0/100/0	3,000 a	3,500 c			3,500
Description: Implement Montgomery County's bus rapid transit system on US 29/MD 384 between Silver Spring Metrorail Station and Burtonsville Park and Ride.							Total Funds: 31,000

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6400	Agency ID:	Title: MARC Improvements				Complete:	Total Cost:	
Facility:	Sect. 5307	80/20/0	3,752 e		303 e	1,483 e	3,014 e	4,800
From:								
To:	Sect. 5337-SGR	80/20/0	29,461 e	5,130 e	6,216 e	12,692 e	12,053 e	36,091
Total Funds:								40,891

Description: Ongoing improvement program of the MARC Camden, Brunswick, and Penn Lines to ensure safety and quality of service. This program is implemented through CSX and Amtrak construction agreements. CSX efforts include projects such as interlocking replacements and other track improvements. Amtrak efforts include projects such as passenger upgrades at Washington Union Station, interlocking work, and other track improvements.

TIP ID: 6401	Agency ID:	Title: MARC Rolling Stock Overhauls and Replacements				Complete:	Total Cost:	
Facility:	Sect. 5307	80/20/0	2,786 e			543 e	94 e	637
From:								
To:	Sect. 5337-SGR	80/20/0	51,910 e	13,596 e	18,051 e	3,650 e	2,951 e	38,248
Total Funds:								38,885

Description: This is an ongoing project for the overhaul and replacement of MARC rolling stock. Overhaul of MARC coaches and locomotives are performed in accordance with "10-year Minor" and "20-year Midlife" schedules, and/or the manufacturer's schedule. Upgrade MARC vehicles with federally-mandated Positive Train Control safety features. The project also includes funding for multi-level coaches that will be used to replace coaches that have reached the end of their useful life and provide additional capacity for the MARC system.

TIP ID: 6440	Agency ID:	Title: Seniors and Individuals with Disabilities				Complete:	Total Cost:	
Facility:	Sect. 5310	50/50/0	312 e	148 e		148 e		296
From:								
To:	Sect. 5310.	80/20/0	905 e	501 e		501 e		1,002
Total Funds:								1,298

Description: Will enhance mobility for seniors and persons with disabilities by providing funds for programs to serve the special needs of transit-dependent populations beyond traditional public transportation services and ADA complementary paratransit services.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Charles County

TIP ID: 6582	Agency ID:	Title: Poplar Hill Road Bridge over Zekiah Swamp Run	Complete: 2019	Total Cost: \$750
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Facility: Poplar Hill Road Bridge	BR	100/0/0	300 a	300 a			300
From: Zekiah Swamp Run							
To:	State/Local	0/0/100	80 a	70 a			70

Total Funds: 370

Description: Replace the superstructure (bridge abutments, wing walls, steel girders & concrete deck)

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Frederick County

TIP ID: 3173	Agency ID: F3	Title: Study, Design, ROW, Construction, Inspection & Training				Complete: 2024	Total Cost:	\$8,294
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Facility: Various Bridges	BR	47/0/53	640 c				640
From:							
To:	BR 1	76/0/24		2,543 c			2,543
	Local	0/0/100		1,423 c		1,391 c	2,814
Total Funds:							5,997

Description: Rehabilitate, construct (replace) & inspect bridges or culverts at the following locations: Biggs Ford; Gas House Pike; Bretheren Church Rd; Hessong Bridge Rd; Hoovers Mill Rd; Hornets Nest Rd; bridge replacement of Old Mill Road Br; deck replacements on Stottlemeyer; and covered bridge preservation projects. Work may include bridge inspection training.

TIP ID: 5494	Agency ID:	Title: Study, Design, ROW, & Construction				Complete: 2024	Total Cost:	\$34,771
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Facility: Various Roads	BR	7/0/93	17,359 c				17,359
From: Various Roads							
To:	BR 1	9/0/91		9,172 c			9,172
	Local	0/0/100		1,712 c		315 c	2,027
Total Funds:							28,558

Description: Upgrade and improvements to Boyers Mill Road; Christopher's Crossing; Gas House Pike; Reichs Ford Road; White Rock subdivision and Yeagertown Rd. Old National Pike will include bicycle accommodations.

TIP ID: 5495	Agency ID: F3	Title: Planning, Design & Construction				Complete: 2028	Total Cost:	\$4,685
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Facility: Varous Trails	State/Local	0/40/60		1,420 c	213 a	1,420 c	3,053
From:							
To:							
Total Funds:							3,053

Description: Various County Trails including the Ballenger Creek Corridor

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Montgomery County

TIP ID: 3049	Agency ID: P501107	Title: Goshen Road South	Complete:	Total Cost:	\$128,630
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Facility: Goshen Road South	Local	0/0/100	4,408 a	2,579 a	2,290 a	52,012
From: South of Girard Street			10,567 b	6,429 b	28,158 c	
To: 1000 feet north of Warfield Road				8,520 e	4,036 e	

Total Funds: 52,012

Description: This project provides for the design of roadway improvements along Goshen Road from south of Girard Street to 1000 feet North of Warfield Road, a distance of approximately 3.5 miles. The improvements will widen Goshen Road from the existing 2-lane open section road to a 4-lane divided, closed section roadway using 12-foot inside lanes, 11-foot outside lanes, 18-foot median, and 5-foot on-road bike lanes. A 5-foot concrete sidewalk and an 8-foot bituminous hiker/biker path along the east and west side of the road, respectively, are also proposed along with storm drain improvements, street lighting and landscaping. The project also entails construction of approximately 6,000 linear feet of retaining wall. The project is needed to reduce existing and future congestion, improve vehicular and pedestrian safety. It will improve roadway network efficiency, provide for alternate modes of transportation, and will significantly improve pedestrian safety by constructing a sidewalk and a hiker/biker path. A pedestrian impact analysis has been completed for this project. Construction completion is scheduled for FY 22, and funded in the CIP in the "Beyond 6 Years" period.

TIP ID: 3062	Agency ID: P501119	Title: Snouffer School Road North	Complete:	Total Cost:	\$13,482
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Facility: Snouffer School Road	Local	0/0/100	2,457 a	319 a	3,654 c	11,398
From: Sweet Autumn Drive			105 b	5,250 c	1,247 e	
To: Centerway Road			9,960 c	928 e		
			751 e			

Total Funds: 11,398

Description: This project provides for the design, land acquisition and construction of 1,300 linear feet of roadway widening and resurfacing along Snouffer School Road between Centerway Road and Fessenden Lane and a new traffic signal at Alliston Hollow Way, as well as providing for grading for two northern lanes and resurfacing two southern lanes from Fessenden Lane to Alliston Hollow Way. The closed-section roadway typical section consists of two through lanes southbound and one through lane northbound separated by a raised median, an 8-foot shared use path on the northern side, and a 5-foot sidewalk on the southern side within a 100 foot right-of-way. The sidewalk and shared use path will extend 2,500 linear feet from Centerway Road to Alliston Hollow Way. The project will include a bridge for the northbound traffic lanes and replacement of the existing bridge for the southbound traffic lane over Cabin Branch, street lights, storm drainage, stormwater management, and landscaping and utility relocations. This project is needed to meet the existing and future traffic and pedestrian demands in the area. It will improve traffic flow by providing additional traffic lanes and encourage alternative means of mobility through proposed bicycle and pedestrian facilities. A pedestrian impact analysis has been completed for this project.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3063 Agency ID: P507658 Title: Bus Stop Improvement Program			Complete:		Total Cost:		\$6,387
Facility: Bus Stop Improvement Program	Local	0/0/100	1,809 a	195 a	160 a	160 a	2,270
From:			2,557 b	600 b	240 c	240 c	
To:			1,709 c	275 c			

Total Funds: 2,270

Description: This project provides for the installation and improvement of capital amenities at bus stops in Montgomery County to make them safer, more accessible, and attractive to users and to improve pedestrian safety for County transit passengers. These enhancements can include items such as sidewalk connections, improved pedestrian access, pedestrian refuge islands and other crossing safety measures, area lighting, and paved passenger standing areas. In prior years, this project included funding for the installation and replacement of bus shelters and benches along Ride-On and County Metrobus routes; benches and shelters are now in the operating budget.

TIP ID: 3065 Agency ID: P509399 Title: Advanced Transportation Management System			Complete:		Total Cost:		\$59,233
Facility: Advanced Transportation Management Syst	Local	0/0/100	1,062 a	177 a	177 a		4,016
From:			10,986 e	1,831 e	1,831 e		
To:							

Total Funds: 4,016

Description: This project provides for Advanced Transportation Management Systems (ATMS) in the County. The ATMS deploys the infrastructure to conduct real-time management and operations of the County's transportation system. Twenty-two National Intelligent Transportation Architecture market packages have been identified for deployment of the ATMS. Each of these market packages is considered a subsystem of the ATMS program and may include several elements. These subsystems are identified in the ATMS Strategic Deployment Plan, dated February 2001, and revised July 2011. One aspect of this project will focus on improving pedestrian walkability by creating a safer walking environment, utilizing selected technologies and ensuring ADA compliance.

TIP ID: 3066 Agency ID: P507596 Title: Annual Bikeway Program			Complete:		Total Cost:		\$4,897
Facility: Annual Bikeway Program	Local	0/0/100	600 a	11 a	11 a		1,060
From:			210 b	169 b	169 b		
To:			2,000 c	350 c	350 c		

Total Funds: 1,060

Description: This program provides funds to plan, design and construct bikeways, trails, and directional route signs throughout Montgomery County. The purpose of the program is to develop the bikeway network specified by master plans, and those requested by the community to provide access to commuter rail, mass transit, major employment centers, recreational and educational facilities, and other major attractions. Bikeway types include shared-use paths, designated lanes, and signed shared routes along existing roads. There is a continuing and increasing need to develop a viable and effective bikeway and trail network throughout the County to increase bicyclist safety and mobility, provide an alternative to the use of automobiles, reduce traffic congestion, reduce air pollution, conserve energy, enhance quality of life, provide recreational opportunities, and encourage healthy life styles.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3067 Agency ID: P506747 Title: Sidewalk Program - Minor Projects			Complete:		Total Cost:		\$20,238
Facility: Sidewalk Program - Minor Projects	Local	0/0/100	2,924 a	520 a	520 a		4,828
From:			36 b	6 b	6 b		
To:			11,194 c	1,874 c	1,874 c		
			84 e	14 e	14 e		

Total Funds: 4,828

Description: This pedestrian access improvement program provides sidewalks on County-owned roads and some State-maintained roadways. Some funds from this project will go to support the Renew Montgomery program. The Montgomery County Department of Transportation maintains an official list of all outstanding sidewalk requests. Future projects are evaluated and selected from this list, which is continually updated with new requests. In addition, projects identified by the Citizens' Advisory Boards are placed on this list. One aspect of this project will focus on improving pedestrian walkability by creating a safer walking environment, utilizing selected engineering technologies and ensuring Americans with Disabilities Act (ADA) compliance. In addition to connecting existing sidewalks, these projects increase pedestrian safety and facilitate walking to: Metrorail stations, bus stops, shopping and medical centers, employment, recreational, and school sites. The average rate of requests for sidewalks has been 80 to 100 per year over the last two years. This program also complements and augments the bikeways that are included in road projects.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3068 Agency ID: P509325 Title: ADA Compliance Transportation Access			Complete:		Total Cost:		\$12,068
Facility: ADA Compliance Transportation Access	Local	0/0/100	1,016 a	283 a	283 a		3,050
From:			6,154 c	1,214 c	1,214 c		
To:			140 e	28 e	28 e		

Total Funds: 3,050

Description: This project provides both curb ramps for sidewalks and new transportation accessibility construction in compliance with the Americans with Disabilities Act (ADA). This improvement program provides for planning, design and reconstruction of existing infrastructure Countywide to enable obstruction-free access to public facilities, public transportation, Central Business Districts (CBDs), health facilities, shopping centers, and recreation. Curb ramp installation at intersections along residential roads will be constructed based on population density. Funds are provide for the removal of barriers to wheelchair users such as signs, poles, and fences, and for intersection improvements, such as the reconstruction of median breaks and new curb ramps, crosswalks and, sidewalk connectors to bus stops. Curb ramps are needed to enable mobility for physically-impaired citizens; for the on-call transit program, "Accessible Ride On" and for County-owned and leased facilities. A portion of this project will support the Renew Montgomery Program. One aspect of this project will focus on improving pedestrian walkability by creating a safer walking environment, utilizing selected engineering technologies, and ensuring ADA compliance.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

			Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3072 Agency ID: P500821 Title: Ride On Bus Fleet						Complete:		Total Cost:		\$190,352
Facility: Ride On Bus Fleet			Local	0/0/100	56,896 e	19,591 e	15,260 e			34,851
From: Countywide										
To:			Sect. 5307	100/0/0	9,600 e	1,600 e	1,600 e			3,200
			Sect. 5308	100/0/0	3,066 e					
			State	0/100/0	16,400 e	400 e	400 e			800

Total Funds: 38,851

Description: This project provides for the purchase of replacement buses in the Ride On fleet in accordance with the Division of Transit Services' bus replacement plan. The FY 15-20 plan calls for the following:

- FY 15: 26 full-size buses & 1 small diesel
- FY 16: 25 full-size buses
- FY 17: 15 full-size buses
- FY 18: 28 full-size buses
- FY 19: 9 full-size buses & 31 small diesel buses
- FY 20: 32 full-size buses

TIP ID: 3125 Agency ID: P509975 Title: Silver Spring Green Trail						Complete: 2022		Total Cost:		\$4,279
Facility: Silver Spring Green Trail			Local	0/0/100	1,500 c	170 c	140 c	127 c	64 c	501
From: Fenton Street										
To: Sligo Creek Hiker-Biker Trail										

Total Funds: 501

Description: This project provides for an urban trail along the selected Purple Line alignment along Wayne Avenue in Silver Spring. A Memorandum of Understanding will be established between the County and the Maryland Transit Administration (MTA) to incorporate the design and construction of the trail as a part of the design and construction of the Purple Line. The pedestrian and bicycle use along this trail supplements the County transportation program. The funding provided for the trail includes the design, property acquisition, and construction of the trail through the Silver Spring CBD, along the northern side of Wayne Avenue from Fenton Street to the Sligo Creek Hiker-Biker Trail. This trail is part of a transportation corridor and is not a recreation area of State or local significance. The trail will include an 8-10 foot wide bituminous shared use path, lighting, and landscaping. The trail will provide access to the Silver Spring Transit Station, via the Metropolitan Branch Trail, and the future Capital Crescent Trail. A pedestrian impact analysis has been completed for this project. Will be design and built at part of Purple Line project. Final cost and cash flows will be determined based on final design and MOU agreement between MTA and County.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3429 Agency ID: P500905 Title: Falls Road East Side Hiker/Biker Path			Complete:		Total Cost:		\$24,830
Facility: Falls Road Bikeway	Local	0/0/100	119 a	489 a	1,165 e		3,276
From: River Road				1,622 b			
To: Dunster Road							
Total Funds:							3,276

Description: This project provides funds to develop final design plans and to acquire right-of-way, and construct approximately 4 miles of an 8-foot bituminous hiker/biker path along the east side of Falls Road from River Road to Dunster Road. The path will provide pedestrian and cyclist access to communities along the project corridor and will provide connection to existing pedestrian facilities to the north (Rockville), and to the south (Potomac).

The path is a missing link between existing bicycle facilities within the City of Rockville and the existing path along Falls Road south of River Road. The path provides much needed access to public transportation along Falls Road. The path will provide pedestrian access to the following destinations: bus stops along Falls Road, Bullis School, Ritchie Park Elementary School, Potomac Community Center, Potomac Library, Potomac Village Shopping Center, Potomac Promenade Shopping Center, Heritage Farm Park, Falls Road Golf Club, Falls Road Park, and a number of religious facilities along Falls Road.

TIP ID: 3498 Agency ID: P500500 Title: Burtonsville Access Road			Complete:		Total Cost:		\$6,890
Facility: Burtonsville Access Road	Local	0/0/100	335 a	145 a	70 a		2,077
From: MD Spencerville Road				1,077 b	785 b		
To: School Access Road in Burtonsville							
Total Funds:							2,077

Description: This project provides for a new roadway between Spencerville Road (MD 198) and the School Access Road in Burtonsville. This roadway will consist of two 12' lanes, closed section, for a length of approximately 1,400 linear feet. The project also includes an eight-foot parking lane, curb and gutter, five-foot sidewalks, landscaping and street lighting. The new road will serve as a local access road north of and parallel to MD 198 and the entrance to Burtonsville Shopping Center on the east side of US 29. This new road will provide an important alternative access for existing businesses on the north side of MD 198 and to the Burtonsville Elementary School. The project will create a more unified and pedestrian-friendly downtown Burtonsville and improve circulation in this area.

TIP ID: 3542 Agency ID: P500717 Title: MD 355 Phase 2 Highway Reconstruction			Complete: 2020		Total Cost:		\$86,500	
Facility: Montrose Parkway	Local	0/0/100	4,306 a	1,233 a	65 a	65 a	1,393 a	31,267
From: Randolph Road			12,466 b	2,426 b	2,426 b	2,052 b	6,536 b	
To: East of Parklawn Drive			9 c				10,471 c	
			728 e				4,600 e	
Total Funds:							31,267	

Description: Construction of Montrose Parkway, including a CSX Railroad grade-separated crossing and interchange at Parklawn Drive.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3642 Agency ID: P500333 Title: Pedestrian Safety Program			Complete:		Total Cost:		\$19,512
Facility: Pedestrian Safety Program	Local	0/0/100	692 a	100 a	100 a		3,200
From: Countywide			7,645 c	1,250 c	1,250 c		
To:			1,500 e	250 e	250 e		

Total Funds: 3,200

Description: This project provides for the review and analysis of existing physical structures and traffic controls in order to make modifications aimed at improving safety and the walking environment for pedestrians. This project provides for the construction of physical structures and/or installation of traffic control devices which include, but are not limited to: new crosswalks; pedestrian refuge islands; sidewalks; bus pull-off areas; fencing to channel pedestrians to safer crossing locations; relocating, adding, or eliminating bus stops; accessible pedestrian signals (countdown) or warning beacons; improving signage, etc. The improvements will be made in compliance with the requirements of the Americans with Disabilities Act (ADA). This project supports the construction of improvements at and around schools identified in the Safe Routes to School program. The project also includes performing pedestrian safety audits at High Incidence Areas, and implementing identified physical improvements, education, and outreach.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3648 Agency ID: P500704 Title: Traffic Signal System Modernization			Complete:		Total Cost:		\$40,849
Facility: Traffic Signal System Modernization	Local	0/0/100	200 a	100 a	100 a		2,476
From:			2,276 e	1,138 e	1,138 e		
To:							
	State	0/100/0	1,096 a				
			2,904 e				

Total Funds: 2,476

Description: This project provides for the modernization of the county's aged traffic control system. Phase I consists of planning, requirements development, systems engineering, and testing. Phase II consists of acquisition of central system hardware and software, acquisition and implementation of control equipment and communications for intersections, as well as reconfiguration of the communications cable plant. Phase 1 is complete.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3703 Agency ID: P500717 Title: Montrose Parkway East			Complete:		Total Cost:		\$119,890
Facility: Montrose Parkway East	Local	0/0/100	479 a	2,436 a	4,000 a		40,561
From: Eastern Limit of MD 355/Montrose Interchan			14,123 b	15,695 c	12,256 c		
To: Veirs Mill Road/Parkland Road Intersection			1,266 e	6,174 e			

Total Funds: 40,561

Description: This project provides for a new four-lane divided parkway as recommended in the North Bethesda / Garrett Park and Aspen Hill Master Plans. The roadway will be a closed section with 11-foot wide lanes, a 10-foot wide bikepath on the north side and a 5-foot wide sidewalk on the south side. The project includes a 350-foot bridge over Rock Creek. The roadway limits are between the eastern limit of the MD 355/Montrose interchange on the west, and the intersection of Veirs Mill Road and Parklawn Drive on the east. The project includes a bridge over CSX, a grade-separated interchange at Parklawn Drive, and a tie-in to Veirs Mill Road. This project will relieve traffic congestion on roadways in the area through increased network capacity. The project also provides improved safety for motorists, pedestrians, and bicyclists, as well as a greenway.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5560 Agency ID: P500929 Title: Bethesda Metro South Entrance			Complete:		Total Cost:		\$57,610
Facility: Bethesda Metro South Entrance	Local	0/0/100	7,200 a	10,162 c	6,437 c		16,599
From: Elm Street west of Wisconsin Avenue			32,311 c				
To:							
Total Funds:							16,599

Description: This project provides access from Elm Street west of Wisconsin Avenue to the southern end of the Bethesda Metrorail Station. The Metrorail Red Line runs below Wisconsin Avenue through Bethesda more than 120 feet below the surface, considerably deeper than the Purple Line right-of-way. The Bethesda Metrorail Station has one entrance, near East West Highway. The station was built with accommodations for a future southern entrance.

The Bethesda light rail transit (LRT) station would have platforms located just west of Wisconsin Avenue on the Georgetown Branch ROW. This platform allows a direct connection between LRT and Metrorail, making transfers as convenient as possible. Six station elevators would be located in the Elm Street ROW, which would require narrowing the street and extending the sidewalk.

The station would include a new south entrance to the Metrorail Station, including a new mezzanine above the Metrorail platform, similar to the existing mezzanine at the present station's north end. The mezzanine would use the existing knock-out panel in the arch of the station and the passageway that was partially excavated when the station was built, in anticipation of the future construction of a south entrance. Specific dollar amounts and flows will be based on final design estimate and MOU between MTA and County.

TIP ID: 5729 Agency ID: P500718 Title: MacArthur Boulevard Bikeway Improvements			Complete:		Total Cost:		\$17,300
Facility: MacArthur Boulevard	Local	0/0/100	1,869 a	506 a	754 a		1,460
From: I Capital Beltway			5,389 c		200 b		
To: DC Line			260 e				
Total Funds:							1,460

Description: Phase I of project provides bikeway improvements along 13,800' of MacArthur Boulevard from I-495 to Oberlin Avenue. Phase II extends the bikeway from Oberlin Ave to the DC Line. Phase to be completed in FY 15. Design for Phase 2 will start in FY19 with construction to start in FY21 and FY 22. To encourage alternative modes of travel and enhance pedestrian safety, the pavement will be widened to provide 2-3 foot shoulders to accommodate the needs of on-road commuters and experienced bicyclists. The existing shared-use path will be upgraded to current standards to promote usage and enhance safety for all users. This project will also provide for spot improvements to MacArthur Boulevard to enhance safety for pedestrians, cyclists and motorists. This project will improve safety and accessibility for pedestrians and bicyclists of all experience levels and enhances connectivity with other bikeways in the vicinity. A pedestrian impact analysis had been completed for this project.

TIP ID: 5912 Agency ID: P509132 Title: Beach Drive Bridge M-PK-24001			Complete:		Total Cost:		
Facility: Beach Drive Bridge	BR	80/0/20	1,200 a	200 a	200 a	2,200 c	4,600
From: Over Silver Creek					1,600 c	200 e	
To:					200 e		
Total Funds:							4,600

Description: Replace bridge on Beach Drive over Silver Creek, and reconstruct Roadway Approaches

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5913 Agency ID: P509132 Title: Brink Road Bridge M-0064001			Complete: 2019		Total Cost:		
Facility: Brink Road Bridge M-0064001	BR	80/0/20	1,100 a	100 a	100 a	100 a	300
From: Over Great Seneca Creek							
To:							Total Funds: 300
Description: This project provides for the rehabilitation of the Brink Road Bridge, over Great Seneca Creek, as well as the reconstruction of the roadway approaches.							

TIP ID: 5916 Agency ID: P509132 Title: Garrett Park Road Bridge M-PK-04001			Complete:		Total Cost:		
Facility: Garrett Park Road Bridge M-PK-04001	BR	80/0/20	1,200 a	200 a	100 a	100 a	400
From: Over Rock Creek							
To:							Total Funds: 400
Description: This project provides for the rehabilitation of Garrett Park Road Bridge M-PK-04001 over Rock Creek, and the reconstruction of roadway approaches							

TIP ID: 5917 Agency ID: P501302 Title: Gold Mine Road Bridge			Complete:		Total Cost:		\$4,433
Facility: Gold Mine Road Bridge M-0096001	BR	25/0/75	2,005 a	4,731 c			5,231
From:			315 b	500 e			
To:							
	Local	0/0/100	69 b				
							Total Funds: 5,231
Description: This project provides for the replacement of the Gold Mine Road Bridge over the Hawlings River, and the construction of an 8' wide bikepath from James Creek Court to New Hampshire Avenue. The project includes 250 feet of approach roadway work at each end of the bridge, which consists of widening and raising the roadway profile by 5 feet at the bridge. The new bridge will carry two lanes of traffic, improve sight distances at the bridge, raise the bridge elevation to reduce flooding at the roadway, carry all legal vehicles, and provide pedestrian facilities across the river.							

TIP ID: 5918 Agency ID: P501523 Title: Park Valley Road Bridge M-PK-03001			Complete:		Total Cost:		\$2,000
Facility: Park Valley Road Bridge M-PK-03001	BR	70/0/30	1,145 a	1,875 c			1,875
From: Over Sligo Creek			1,500 c				
To:			30 e				
							Total Funds: 1,875
Description: Replacement of Park Valley Road Bridge M-PK-03001 over Sligo Creek, and reconstruction of roadway approaches.							

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source			Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5942 Agency ID: P501110 Title: Metropolitan Branch Trail							Complete:	Total Cost:	\$12,147
Facility:	Metropolitan Branch Trail	Local	0/0/100	3,727 a	1,447 a	1,445 a	617 a		15,339
From:	End of existing trail in Takoma Park			1,054 b	318 b	83 b	5,373 c		
To:	Silver Spring Transit Center			533 c		6,056 c			
				381 e					

Total Funds: 15,339

Description: This project provides for completion of the preliminary engineering and final engineering necessary to obtain CSX and WMATA approvals for the 0.62-mile segment of this trail in Montgomery County between the end of the existing trail in Takoma Park, and the Silver Spring Transit Center. The trail will be designed to be 8 feet to 10 feet in width. This project also includes the land acquisition, site improvements, utility relocations and construction of the project from the Silver Spring Transit Center to the east side of Georgia Avenue, including a new or expanded pedestrian bridge over Georgia Avenue, as well as the segment along Fenton Street, from King Street to the north end of the existing trail. The design will also include a grade-separated crossing of Burlington Avenue, the narrowing of Selim Road, the trail segment on King Street, and the construction of new retaining walls and reconstruction of existing retaining walls. A pedestrian impact analysis has been completed for this project. This trail is to be part of a larger system of trails to enable non-motorized travel around the Washington Region. The trail is to be an off-road facility serving pedestrians, bicyclists, joggers and skaters and will be Americans with Disabilities Act (ADA) accessible.

Source			Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5943 Agency ID: P500102 Title: Bethesda CBD Streetscape							Complete:	Total Cost:	\$8,214
Facility:	Bethesda CBD Streetscape	Local	0/0/100	900 a	497 a	490 a	262 a		6,901
From:	Bethesda CBD				1,286 c	1,982 c	1,188 c		
To:	Bethesda CBD						1,196 e		

Total Funds: 6,901

Description: This project provides for the design and construction of pedestrian improvements to complete unfinished streetscapes along approximately 5,425 feet of streets in the Bethesda CBD as identified in the Bethesda CBD Sector Plan. This includes:

Element 1
1,125 feet along Woodmont Avenue between Old Georgetown Road and Cheltenham Drive.

Element 2
3,550 feet along Wisconsin Avenue between Cheltenham Drive and the northern end of the CBD.

Element 3
750 feet along East-West Highway between Waverly Street and Pearl Street.

This project is intended to fill in the gaps between private development projects that have been constructed or are approved in the CBD. Design elements include the replacement and widening, where possible, of sidewalks, new vehicular and pedestrian lighting, street trees, street furniture, roadway signs. The county will coordinate with the utility company for installation of aesthetic covering over existing utility poles within the project area. This project addresses streetscape improvements and does not assume the undergrounding of utilities.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5971 Agency ID: P500313 Title: Bridge Preservation Program			Complete:		Total Cost:		\$9,807
Facility: Bridge Preservation Program	Local	0/0/100	872 a	152 a	152 a		1,028
From: County-wide			12 b	2 b	2 b		
To: County-wide			2,160 c	360 c	360 c		

Total Funds: 1,028

Description: This project includes actions or strategies that prevent, delay or reduce deterioration of bridges or bridge elements, restore the function of existing bridges, keep bridges in good condition and extend their useful lives. Preservation actions may be preventive or condition driven.

TIP ID: 5972 Agency ID: P509753 Title: Bridge Renovation			Complete:		Total Cost:		\$8,211
Facility: County-wide	Local	0/0/100	780 a	390 a	390 a	390 a	1,560
From:							
To:	State/Local	0/16/84	1,220 c	610 c	610 c	610 c	2,440

Total Funds: 4,000

Description: This project provides for the renovation of County roadway and pedestrian bridges that have been identified as needing repair work beyond routine maintenance levels to assure continued safe functioning.

TIP ID: 5974 Agency ID: P508527 Title: Resurfacing: Primary / Arterial			Complete:		Total Cost:		\$59,518
Facility: County-wide	Local	0/0/100	6,060 a	915 a	915 a		12,200
From:			34,340 c	5,185 c	5,185 c		
To: County-wide							

Total Funds: 12,200

Description: Montgomery County maintains approximately 966 lane miles of primary and arterial roadways. This project provides for the systematic milling, repair, and bituminous concrete resurfacing of selected primary and arterial roads and revitalization of others. This project provides for a systematic full-service, and coordinated revitalization of the primary and arterial road infrastructure to ensure viability of the primary transportation network, and enhance safety and ease of use for all users. One aspect of this project will focus on improving pedestrian mobility by creating a safer walking environment, utilizing selected engineering technologies, and ensuring compliance with the Americans with Disabilities Act (ADA).

TIP ID: 5975 Agency ID: P508182 Title: Sidewalk & Curb Replacement			Complete:		Total Cost:		\$56,059
Facility: Countywide	Local	0/0/100	6,135 a	1,005 a	1,005 a		13,400
From:			34,765 c	5,695 c	5,695 c		
To:							

Total Funds: 13,400

Description: This project provides for the removal and replacement of damaged or deteriorated sidewalks, curbs, and gutters in business districts and residential communities. MCDOT currently maintains about 1,034 miles of sidewalks and about 2,098 miles of curbs and gutters. This project includes: overlay of existing sidewalks with asphalt; base failure repair and new construction of curbs; and new sidewalks with handicapped ramps to fill in missing sections. A significant aspect of this project has been and will be to provide safe pedestrian access and ensure compliance with the Americans with Disabilities Act (ADA).

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5980 Agency ID: P507017 Title: Intersection & Spot Improvements			Complete:		Total Cost:		\$10,117
Facility: Intersection & Spot Improvements	Local	0/0/100	1,644 a	336 a	1,344 e		2,688
From: County-wide			60 b	10 b			
To: County-wide			3,932 c	798 c			
			1,200 e	200 e			

Total Funds: 2,688

Description: This project provides for the planning and reconstruction of various existing intersections in Montgomery County, and for an annual congestion study to identify locations where there is a need for congestion mitigation. The project includes the identification and implementation of corridor modifications and traffic calming treatments to enhance pedestrian safety. At these identified locations either construction begins immediately or detailed design plans are prepared and developed into future projects. A pedestrian impact analysis will be performed during design or is in progress.

TIP ID: 5981 Agency ID: P509523 Title: Neighborhood Traffic Calming			Complete:		Total Cost:		\$2,801
Facility: Neighborhood Traffic Calming	Local	0/0/100	444 a	74 a	74 a		620
From: Residential Neighborhoods County-wide			1,416 e	236 e	236 e		
To:							

Total Funds: 620

Description: This project provides for the planning, design, and construction of physical traffic control features in residential neighborhoods. Traffic calming features such as traffic circles and islands, curb extensions, speed humps, physical and painted lane narrowing devices, etc., are used to maintain and improve the safety and livability of residential neighborhoods by addressing issues of aggressive driving and excessive speeds and volumes.

TIP ID: 5982 Agency ID: P500512 Title: Streetlight Enhancements - CBD / Town Center			Complete:		Total Cost:		\$3,930
Facility: Streetlight Enhancements - CBD / Town Cen	Local	0/0/100	300 a	50 a	50 a		500
From: CBDs and Town Centers			1,160 e	200 e	200 e		
To:							

Total Funds: 500

Description: This project provides for the evaluation and enhancement of street lighting within and around the Central Business Districts (CBDs) and town centers where current lighting does not meet minimum Illuminating Engineering Society of North America (IESNA) standards. This project will fill in street lighting; standardize streetlight types; and replace sodium vapor lighting. This project is needed to provide visibility and safety improvements in areas where there is a high concentration of pedestrians, bicyclists, and vehicles.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5986 Agency ID: P501116 & P50 Title: White Flint District West: Transportation & West Workaround			Complete:		Total Cost:		\$133,784
Facility: White Flint District West: Transportation & Local	0/0/100	8,907 a	2,944 a	2,570 a			13,042
From:		1,200 b	5,120 c	208 b			
To:		22,875 c	950 e	1,250 c			
		25,473 e					

Total Funds: 13,042

Description: This project provides for engineering, utility design, and land acquisition for one new road, one relocated road, improvements to three existing roads, and one new bikeway in the White Flint District area for Stage 1. The project also includes both design and future construction expenditures for the reconstruction of Rockville Pike and Hoya Street. Various improvements to the roads will include new traffic lanes, shared-use paths, undergrounding of overhead utility lines where required, other utility relocations and streetscaping. The new White Flint West Workaround project (CIP #501506) continues funding for several western workaround road projects. The following projects are funded through FY14 for final design:

1. Main Street/Market Street (B-10) – Old Georgetown Road (MD 187) to Woodglen Drive – new two-lane 1,200 foot roadway.
 2. Main Street/Market Street (LB-1) – Old Georgetown Road (MD 187) to Woodglen Drive – new 1,200 foot bikeway.
 3. Executive Boulevard Extended (B-15) – Marinelli Road to Old Georgetown Road (MD 187) – 900 feet of relocated four-lane roadway.
 4. Intersection of Hoya Street (formerly 'Old' Old Georgetown Road) (M-4A), Old Georgetown Road, and Executive Boulevard, including the approaches to Old Georgetown Road.
- The following projects are proposed for both design and construction in the FY19-20 and Beyond 6-Years periods:
5. Rockville Pike (MD 355) (M-6) – Flanders Avenue to Hubbard Drive – 6,300 feet of reconstructed 6-8 lane roadway.
 6. Hoya Street (M-4A) – Montrose Parkway to the intersection of Old Georgetown Road – 1,100 feet of reconstructed four-lane roadway.

This project also provides for analysis and studies necessary to implement the district. Design is underway on all road projects in the western workaround, with the exception of the Rockville Pike segment, and will conclude in FY15 (FY15 design is funded through White Flint West Workaround). Design of the Rockville Pike section will begin in FY19 and will conclude in FY21 in order to coordinate with the implementation of the Rapid Transit System (RTS) (CIP #501318). Some property acquisition may occur on this section in FY20. The current expenditure/funding schedule assumes that land needed for road construction will be dedicated by the developers.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5987 Agency ID: P501202 Title: White Flint Traffic Analysis and Mitigation			Complete:		Total Cost:		\$1,787
Facility: White Flint Traffic Analysis and Mitigation Local	0/0/100	1,166 a	81 a	81 a			162
From: White Flint Sector Plan and Surrounding Are							
To:							

Total Funds: 162

Description: This project is programmed in direct response to requirements of the Approved White Flint Sector Plan. It is composed of three components with the overall goal of mitigating the traffic impacts on communities and major intersections outside of, and surrounding, the White Flint Sector Plan area that will occur as a result of the redevelopment densities approved under the Approved White Flint Sector Plan. These components include:

- A. Cut-through traffic monitoring and mitigation
 - B. Capacity improvements to address congested intersections
 - C. A study of strategies and implementation techniques to achieve the Sector Plan's modal split goals. The modal split study will identify specific infrastructure projects to create an improved transit, pedestrian, and biking infrastructure; and programs needed to accomplish the mode share goals; determine funding sources for these strategies; and determine the scope and cost of project components.
- Transit, pedestrian, bicycle access, safety studies, and TDM planning and implementation efforts are required to facilitate White Flint's transition from a highly automobile oriented environment to a more transit, pedestrian, and bicycle friendly environment. Once specific improvements are identified and concepts developed, detailed design and construction will be programmed in a stand alone PDF.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6015 Agency ID: P501316 Title: Capital Crescent Trail		Complete:		Total Cost:		\$95,856	
Facility: Capital Crescent Trail	Local	0/0/100	6,000 a	700 b	700 b		35,010
From: Elm Street Park in Bethesda			36,346 c	16,805 c	16,805 c		
To: Silver Spring							
Total Funds:							35,010

Description: This project provides for the funding of the Capital Crescent trail, including the main trail from Elm Street Park in Bethesda to Silver Spring, as a largely 12-foot wide hard-surface hiker-biker path, connector paths at several locations, a new bridge over Connecticut Avenue, a new underpass beneath Jones Mill Road, supplemental landscaping and amenities, and lighting at trail junctions, underpasses and other critical locations. This trail will connect to the existing Capital Crescent Trail from Bethesda to Georgetown, the Metropolitan Branch Trail from Silver Spring to Union Station, and the Rock Creek Bike Trail from northern Montgomery County to Georgetown. This trail will serve pedestrians, bicyclists, joggers, and skaters, and will be compliant with the Americans with Disabilities Act of 1990 (ADA), the Bethesda CBD Sector Plan, and the Purple Line Functional Master Plan. Schedule: 1) The interim trail along the Georgetown Branch right-of-way between Bethesda and Lyttonsville will be upgraded to a permanent rail between FY 16 and FY 18, concurrent with the Purple Line construction schedule in that segment; 2) the new extension of the trail on the northeast side of the Metropolitan Branch Trail, between Lyttonsville and the Silver Spring Transit Center will be built in FY 19 and FY 20; 3) the Metropolitan Branch segment will be opened concurrently with the planned opening of the Purple Line in 2020. Final funding flows and costs subject to final design cost and completion of MOU between MTA and County.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6016 Agency ID: P501304 Title: Needwood Road Bikepath		Complete: 2019		Total Cost:		\$5,765	
Facility: Needwood Road Bikepath	Local	0/0/100	2,206 a	351 a			772
From: Deer Lake Road			2,551 c	421 c			
To: Muncaster Mill Road			146 e				
	State/Local	0/0/100	90 b				
Total Funds:							772

Description: This project provides for the design and construction of a new 8-foot wide shared use path along the south side of Needwood Road, a distance of approximately 1.7 miles, between Deer Lake Road and Muncaster Mill Road (MD 115) in order to provide a safe and continuous pedestrian and bike connection to the Shady Grove Metro Station, Colonel Zadok Magruder High School, the Inter-County Connector (ICC) Shared Use Path, Rock Creek Trail, future North Branch Trail, and Rock Creek Regional Park (Lake Needwood). The project will also include the design and construction of the crossing of Muncaster Mill Road at Needwood Road intersection and a new 6-foot sidewalk along the east side of Muncaster Mill Road, a distance of approximately 450 feet, from Needwood Road to Colonel Zadok Magruder High School.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6017 Agency ID: P501303 Title: Seven Locks Bikeway & Safety Improvements					Complete:	Total Cost:	\$27,944
Facility: Seven Locks Bikeway & Safety Improvemen	Local	0/0/100	1,723 a	1,334 a	20 a		5,270
From: Montrose Road				346 b	3,570 b		
To: Bradley Boulevard							
Total Funds:							5,270

Description: This project provides for pedestrian and bicycle improvements for dual bicycle facilities (on-road and off-road), and enhanced, continuous pedestrian facilities along Seven Locks Road from Montrose Road to Bradley Boulevard (3.3 miles), plus a bike path on Montrose Road between Seven Locks Road and the I-270 ramp, plus northbound and eastbound auxiliary through lanes with on-road bike lanes at the intersection of Seven Locks Road and Tuckerman Lane. This project is needed to address bicycle facility disconnects along Seven Locks Road. The roadway lacks adequate north-south, on road/off-road bicycle facilities necessary to provide continuity and connection between existing and future bike facilities. Continuous bicycle and pedestrian facilities are needed to allow safe access to residential, retail and commercial destinations, as well as existing religious and educational facilities. The project is broken down into three phases: Phase I provides dual bikeway and pedestrian facilities for the segment of Seven Locks Road from Montrose Road to Tuckerman Lane including the bike path on Montrose and the improvements to the Tuckerman Lane intersection. This project currently provides funding for Phase 1 improvements only. Phase 2 provides a dual bikeway and pedestrian facilities for the segment of Seven Locks Road from Tuckerman Lane to Democracy Boulevard. Phase III provides a dual bikeway and pedestrian facilities for the segment of Seven Locks Road from Democracy Boulevard to Bradley Boulevard.

TIP ID: 6018 Agency ID: P501309 Title: East Gude Drive Roadway Improvements					Complete:	Total Cost:	\$6,027
Facility: East Gude Drive Roadway Improvements	Local	0/0/100	1,116 a	26 a	100 a		1,420
From: Crabbs Branch Way			50 b	179 b	1,115 c		
To: Southlawn Lane							
Total Funds:							1,420

Description: This project provides for the design, land acquisition, and construction of roadway improvements along East Gude Drive from Crabbs Branch Way to Southlawn Lane to increase roadway capacity, and to improve vehicular and pedestrian safety. The improvements will: (1) add a westbound lane (800 linear feet) from Calhoun Drive to Crabbs Branch Way; (2) extend the length of the eastbound taper east of Calhoun Drive (500 linear feet) to west of Incinerator Lane; (3) provide an east-to-northbound left turn lane (300 Feet) at Dover Road; (4) construct the missing section of sidewalk on the north side of East Gude Drive from west of Incinerator Lane to east of Calhoun Drive (550 linear feet); and (5) install 6 foot sidewalk connectors from each bus stop on the north side of East Gude Drive to the nearest intersection. A pedestrian impact analysis has been completed for this project. This project is needed to reduce existing and future congestion and improve pedestrian and vehicular safety. Planning and Design begin in FY 17; construction is to be completed by FY 21, and is funded in the "Beyond 6 Years" period", which begins on July 1, 2018.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6019 Agency ID: P501307 Title: Seminary Road Intersection Improvement			Complete:		Total Cost:		\$7,258
Facility: Seminary Road Intersection Improvement	Local	0/0/100	1,060 a	473 a	318 e		3,734
From: Brookeville Road Seminary Place Intersectio			605 b	2,691 c			
To: Linden Lane/Second Avenue Intersection			1,859 c	252 e			

Total Funds: 3,734

Description: This project provides for the design, land acquisition and construction of an approximate 40 foot segment of Seminary Road between the Brookeville Road/Seminary Place, and Linden Lane / Second Avenue intersections on a new alignment; reconstruction of 650 feet of Seminary Place from Seminary Road to 450 Feet east of Riley Place with a vertical alignment revision at Riley Place: increasing the Linden Lane curb lane widths along the 250 foot section between Brookeville Road and Second Avenue to provide two 15-foot shared use lanes to accommodate bicyclists; and reconstruction of the 350 foot segment Brookeville Road between Linen Lane and Seminary Road. Seminary Road will be a closed-section roadway with two 15-foot shared use lanes and a sidewalk along the northern side. Brookeville Road will be a closed-section roadway with one southbound 16-foot shared use lane, sidewalks, and a parking lane on the western side. The project includes street lights, landscaping and stormwater management. The project will simplify vehicle movements and improve traffic congestion by eliminating the Seminary Road "sweep" between Brookville Road and Second Avenue, and pedestrian and bicyclist safety will be improved. The proposed Seminary Place vertical alignment revision at Riley Place will increase intersection sight distance. A pedestrian impact analysis has been completed for this project.

TIP ID: 6020 Agency ID: P501315 Title: Clarksburg Transportation Connections			Complete:		Total Cost:		\$10,000
Facility: Clarksburg Transportation Connections	Local	0/0/100	6,000 e	2,000 e	2,000 e		4,000
From: Snowden Farm Parkway/Little Seneca Park							
To: Ridge Road/							

Total Funds: 4,000

Description: This project provides for the County contribution to the developers design, partial land acquisition, and construction of the:

- 1) The 2400' long section of Snowden Farm Parkway from 300' north of Morning Star Drive to Ridge Road (MD 27)
- 2) The 3,400' section of Little Seneca Parkway from Snowden Farm Parkway to Frederick Road (MD 355)
- 3) The Intersection of Brink Road @ MD 355

Both parkways will include four-lane divided roadways, an 8' wide bikeway along the north/west sides, and a 5' sidewalk along the south/east sides within the 120' right-of-way. The Brink Road intersection will include improvements to the intersection as required by the Planning Board's opinion in the approval of the Clarksburg Village and Greenway Village Subdivisions. The project will also include street lighting, stormwater management, landscaping and reforestation. Appropriate auxiliary lanes and traffic signals will also be provided. A pedestrian impact analysis will be performed during design or is in progress. These roads will provide congestion relief to the Clarksburg area by providing direct tie-ins to MD 355 and MD 27, thus providing better access to I-270. These roads will provide congestion relief to the Clarksburg Area by providing direct tie-ins to MD 355 and MD 27 and thus better access to I-270.

TIP ID: 6063 Agency ID: P501118 Title: Frederick Road Bike Path: Stringtown to Milestone Manor			Complete: 2020		Total Cost:		\$7,402
Facility: Frederick Road Bike Path	Local	0/0/100	1,707 a	522 a	133 a		4,084
From: Stringtown Road			564 b	2,243 c	1,158 c		
To: Milestone Manor Lane			947 c		28 e		

Total Funds: 4,084

Description: This project provides for the design, land acquisition, and construction of a new 10-foot wide hiker-biker path along the west side of Frederick Road (MD 355) between Stringtown Road and the existing hiker-biker path near Milestone Manor Lane, a distance of approximately 2.5 miles. The entire project will replace about 0.9 miles of existing sidewalk segments in order to provide a continuous route serving two schools, two parks, and a church. The project includes streetlights and street trees.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6064 Agency ID: P501109 Title: Snouffer School Road: Sweet Autumn Dr. to Centerway Rd					Complete:	Total Cost:	\$23,710
Facility: Snouffer School Road	Local	0/0/100	3,121 a	142 a			5,372
From: Sweet Autumn Drive			3,898 b	3,515 c			
To: Centerway Road			11,018 c	1,715 e			

Total Funds: 5,372

Description: This project provides for the design, land acquisition, and construction of 5,850 linear feet of roadway widening along Snouffer School Road between Sweet Autumn Drive and Centerway Road. The roadway typical section consists of two through lanes in each direction, a continuous center turn lane and 5.5 foot bike lanes in each direction with an 8-foot shared use path on the north side and a 5-foot sidewalk on the south side within a 90' right-of-way. The project will require approximately 1.44 acres of land acquisition and will include street lights, storm drainage, stormwater management, and landscaping. The Maryland State Highway Administration (MSHA) MD 124 Phase II project will widen the approximate 900 linear foot segment on Snouffer School Road between Sweet Autumn Drive and Woodfield Road.


TIP ID: 6065 Agency ID: P507154 Title: Traffic Signals					Complete:	Total Cost:	\$40,889
Facility:	Local	0/0/100	4,519 a	725 a	725 a		9,670
From:			25,661 e	4,110 e	4,110 e		
To:							

Total Funds: 9,670

Description: This project provides for the design, construction and maintenance of vehicular and pedestrian traffic signals and signal systems including: new and existing signals; reconstruction / replacement of aged and obsolete signals and components; auxiliary signs; accessible pedestrian signals (APS); updates of the County's centrally-controlled computerized traffic signal system; communications and interconnect into the signal system. Increases in congestion levels and the number of accidents necessitate a continued investment in the traffic signal system to: increase intersection safety; accommodate changes in traffic patterns and roadway geometry; reduce intersection delays, energy consumption and air pollution; and provide coordinated movement on arterial routs through effective traffic management and control, utilizing modern traffic signal technologies.

TIP ID: 6364 Agency ID: P509036 Title: Transportation Improvements for Schools					Complete:	Total Cost:	\$1,775
Facility: Various	Local	0/0/100	818 e	209 e	209 e		418
From:							
To:							

Total Funds: 418

Description: This project provides for transportation improvements such as intersection modifications, sidewalks, traffic signals, streetlights etc. for safe pedestrian and vehicular circulation identified in the Montgomery County Public Schools Capital Program. Schools include but are not limited too: Page Elementary, Sligo Middle School, Cloverly Elementary School and Glenhaven Elementary School. Specific Safe Routes to School studies and assessments are included separately in the MCDOT operating budget. 

TIP ID: 6365 Agency ID: P501532 Title: Bicycle and Pedestrian Priority Area Improvements					Complete:	Total Cost:	\$5,375
Facility:	Local	0/0/100	825 a	150 a	1,000 e		2,000
From:			2,550 c	850 c			
To:							

Total Funds: 2,000

Description: The project provides for the design and construction of bicycle and pedestrian capital improvements in the 28 Bicycle-Pedestrian Priority Areas (BPPAs) identified in County master plans. Examples of such improvements include, but are not limited to: sidewalk, curb, and curb ramp reconstruction to meet ADA best practices, bulb-outs, cycle tracks, streetlighting, and relocation of utility poles. A study in FY15 will identify sub-projects in the following BPPAs: Glenmont, Grosvenor, Silver Spring Central Business District, Veirs Mill/Randolph Road, and Wheaton Central Business District. Design and construction of sub-projects will begin in FY16.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 6584 Agency ID: M-0043 Title: Mouth of Monocacy Road Bridge Replacement			Complete: 2023			Total Cost:	\$3,050	
Facility: Mouth of Monocacy Road Bridge	BR	80/0/20	250 a	150 a	150 a	150 a	40 a	490
From: Monocacy River								
To:	Local	0/0/100					300 b	300
							Total Funds:	790

Description: The Mouth of Monocacy Road Bridge, built in 1971, is a single span (47'-6" span length) steel beam structure carrying a 14'-9" roadway (one lane bridge). The bridge has very low traffic volume, ADT of 135 in 2011. The road is classified as an exceptional rustic road in the Rustic Roads Functional Master Plan. The steel beams and bearings are in poor condition. The structure is structurally deficient. It has a bridge sufficiency rating of 29.4 out of 100 and is eligible for replacement using federal funding. The bridge and road will be closed to traffic during construction.

TIP ID: 6608 Agency ID: 501701 Title: Dennis Avenue Bridge Replacement M-0194			Complete: 2024			Total Cost:	\$5,610	
Facility: Dennis Avenue Bridge	BR	80/0/20	200 a	200 a	200 a	100 a	100 a	1,600
From: Tributary to Sligo creek							1,000 e	
To:	Local	0/0/100					100 b	100
							Total Funds:	1,700

Description: This project provides for the replacement of Dennis Ave. Bridge (M-0194) over a tributary to Sligo Creek. The existing bridge, built in 1961, is a single 30-foot span structure. The proposed replacement bridge will be a single 75-foot span structure. The wider opening will mitigate the frequent flooding of five residential properties and local streets upstream of the bridge; mitigate occasional roadway flooding on Dennis Avenue that causes significant traffic delays; and eliminate annual maintenance repairs required for this deteriorating structure.

TIP ID: 6616 Agency ID: Title: Low or No Emissions FTA Electric Bus grant			Complete: 2020			Total Cost:	\$4,395	
Facility: Silver Spring Depot Charging Stations	Sect. 5339 (c)	80/0/20		4,395 e				4,395
From:								
To:								
							Total Funds:	4,395

Description: Montgomery County, Maryland seeks to update its fleet with four Proterra 35' E2 battery electric buses to replace four GILLIG 30' diesel buses. Additionally, Montgomery County seeks to procure and install four depot chargers. The buses would be Montgomery County's first zero-emission buses and would be a component of green and sustainable initiatives underway in the county.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Prince George's County

TIP ID: 3114	Agency ID:	Title: Contee Road	Complete: 2019	Total Cost: \$24,512
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Facility: Contee Road	Local	0/0/100	a	1,950	a		2,000
From: US 1			b	50	e		
To: MD 201 Extended/Virginia Manor Road/Cont			c				

Total Funds: 2,000

Description: This project will include the reconstruction of Contee Road from US 1 to the proposed Virginia Manor Road eas (MD 201/Kenilworth Avenue extended). The improvements will include the construction of a 4 lane divided roadway with median, bicycle lanes, sidewalks, street lights, traffic signal, curb and gutter and landscaping. This improvement is necessary to serve planned development in the area and to improve access to the Laurel Regional Hospital.

TIP ID: 4912	Agency ID:	Title: Oxon Hill Road Widening	Complete: 2019	Total Cost: \$33,837
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Facility: Oxon Hill Road	Local	0/0/100	692	a	8,666	c	8,666
From: National Harbor Ent.			1,184	b			
To: Fort Foote North			18,589	c			

Total Funds: 8,666

Description: This project consists of three phases. Phase I, which is complete involved resurfacing Oxon Hill Road from Livingston Road to Fort Foote Road North. Phase II involved constructing Oxon Hill Road as a collector roadway with curbs, gutters, in pavement bicycle lanes and closed storm drainage systems from the national Harbor entrance road to just south of Fort Foote Road North. This project will be partially funded with developer contributions.

TIP ID: 5401	Agency ID:	Title: Bridge Replacement, Federal Aid	Complete: 2020	Total Cost: \$2,050
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Facility: Bridge Replacement Federal Aid	BR	80/0/20	300	a	200	a	2,050
From: various locations			900	c	650	c	
To: various locations							

Total Funds: 2,050

Description: This project will rehabilitate deteriorated bridges exceeding 20 feet in length where the current deteriorated condition of the bridges does not warrant replacement. Federal Aid funding will be utilized for design and construction of the projects at an 80/20 federal/local ratio.

TIP ID: 5608	Agency ID:	Title: Auth Road II	Complete: 2021	Total Cost: \$16,100
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Facility: Auth Road	Local	0/0/100	800	a	200	a	200
From: Allentown Road							
To: Metro Access Road (Woods Way)							

Total Funds: 200

Description: Auth Road, Phase II consists of reconstructing Auth Road from Henderson Way to Allentown Road. This project will resolve storm drainage problems and enhance pedestrian access and safety. Traffic signals, sidewalks, street lighting and landscaping will be installed.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 5609 Agency ID: _____ Title: Curb and Road rehabilitation II					Complete: 2024	Total Cost:	\$280,021	
Facility: various locations	Local	0/0/100	7,968 a	1,500 a	2,500 a	1,500 a	20,140 e	104,280
From:			74,978 c	20,260 c	29,260 c	13,400 c		
To:			11,040 e	5,240 e	5,240 e	5,240 e		

Total Funds: 104,280

Description: This Project provides funding for rehabilitating County streets, curbs and sidewalks, various safety improvements, installing new sidewalks, construction of sidewalk ramps in accordance with the Americans with Disabilities Act, landscaping, traffic calming improvements, revitalization improvements and the installation of guardrails. The project also includes funding to urbanize and revitalize older subdivisions. An ongoing resurfacing and safety program provides increased vehicular and pedestrian safety remedies to address hazardous conditions and upgrade the appearance of neighborhoods.

TIP ID: 5806 Agency ID: _____ Title: Bridge Replacement - Livingston Road					Complete: 2023	Total Cost:	\$12,045
Facility: Bridge Replacement - Livingston Road	BR	80/0/20	150 a	50 b	300 a	300 a	9,350
From:			100 b	2,500 c	1,500 c	1,500 c	
To: Over Piscataway Creek			500 c	300 e	300 e	350 e	
			1,500 e				

Total Funds: 9,350

Description: This project will replace the existing Livingston Road Bridge over Piscataway Creek, reconstruct the approach roadways and install sidewalks, street lights, and landscaping. Funding for the bridge replacement is anticipated to be 80% Federal Aid for design and construction. Right of way, wetland, mitigation, and necessary roadway rehabilitation beyond the bridge and approach limits are anticipated to be County funded. the bridge is currently load restricted to 58,000 pounds and was originally constructed in 1932.

TIP ID: 5808 Agency ID: _____ Title: Sunnyside Avenue Bridge Replacement					Complete: 2019	Total Cost:	\$12,382
Facility: Bridge Replacment -- Sunnyside Avenue	BR	80/0/20	751 a	7,300 c			7,300
From: Over Indian Creek			3,344 c				
To:			987 e				

Total Funds: 7,300

Description: This Project replaces the Sunnyside Avenue Bridge over Indian Creek and widens the roadway west of the CSX crossing to Kenilworth Avenue (MD 201). The original bridge design was built in 1946, and rehabilitated in 1966 and 1974. Funding is anticipated to be 80% Federal Aid for bridge design and construction. Right-of-way, wetlands mitigation, and roadway reconstruction beyond the bridge and approach limits are anticipated to be 100% County-funded.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6003 Agency ID: Title: Green/Complete Street Improvements			Complete: 2024		Total Cost:		\$69,447
Facility: Various locations County-wide	Local	0/0/100	1,525 a	1,785 a	975 a	700 a	34,470
From:			100 b	250 b	200 b	6,150 c	
To:			8,550 c	4,550 c	7,200 c	250 e	
			1,285 e	600 e	350 e		

Total Funds: 34,470

Description: This project provides funding for a variety of street improvements along major roadways and at key intersections to improve their appearance, safety and functionality while addressing environmental issues. These improvements include but are not limited to roadway and intersection modifications, tree planting, bio retention facilities or stormwater management related water quality and quantity measures necessary to improve the environment, bicycle lane installation and the construction of sidewalks and paths.

TIP ID: 6012 Agency ID: Title: Modification of ADA Rights of Way County-Wide			Complete: 2024		Total Cost:		\$5,325
Facility: ADA Rights of Way Modifications County-Wi	Local	0/0/100	400 c	400 c	400 c	400 c	1,600

Total Funds: 1,600

Description: This Project will modify existing curb, gutters and sidewalks throughout the County to bring the existing infrastructure into compliance with current Americans with Disabilities Act (ADA) design standards.

TIP ID: 6023 Agency ID: Title: County Revitalization & Restoration 2			Complete: 2020		Total Cost:		\$5,300
Facility: Various locations County-wide	Local	0/0/100	600 a	100 a	100 a		1,400
From:			3,300 c	600 c	600 c		

Total Funds: 1,400

Description: This project provides for infrastructure improvements and reconstruction in areas targeted for revitalization. Funding is provided for street improvements along major and minor roadways and at key intersections to improve their function, safety and appearance while also improving access and addressing environmental issues. Improvements will include the installation of traffic signals, intersections modifications, drainage structures, street lighting, landscaping, water quality and quantity measures, bicycle lanes, sidewalks, and other amenities necessary to improve or expand roadway infrastructure while enhancing the appearance of the community. This project will accommodate critical improvements associated with the County's revitalization and economic development efforts. In particular, the area inside the beltway between MD 214 and Southern Avenue is a priority.

TIP ID: 6024 Agency ID: Title: Developer Contribution Projects			Complete: 2024		Total Cost:		\$23,144
Facility: Various locations County-wide	PRIV	0/0/0	200 a	50 a	50 a	50 a	6,000
From:			10,324 c	1,450 c	1,450 c	1,450 c	

Total Funds: 6,000


Description: This project provides funding for a variety of street improvements necessitated by new development. These improvements include, but are not limited to, traffic signals, intersection modifications, roadway widening, new construction, resurfacing, landscaping and contributions to a variety of State highway projects.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6026 Agency ID: _____ Title: School Access Project					Complete: 2022	Total Cost:	\$6,184
Facility: Various locations County-wide	Local	0/0/100	201 a	100 c	100 c	100 c	400
From:			222 b				
To:			4,840 c				
			521 e				
<hr/>							
	SRTS	70/0/30	1,400 c				
							Total Funds: 400

Description: This project provides funding for vehicular and pedestrian access improvements, in conjunction with the construction of new schools or renovations and additions to existing school buildings. This project provides sidewalks, crosswalks and other enhancements for students walking within 1 to 1.5 miles of their respective schools in accordance with the current Prince George's County Board of Education policy. In addition, Federal funding through the State of Maryland is for the Safe Routes to School (SRTS) program), to engage and encourage children to safely walk or bike to school including children with disabilities within two miles of school (K-8)

TIP ID: 6367 Agency ID: _____ Title: Addison Road I					Complete: 2021	Total Cost:	\$20,510
Facility: Addison road	Local	0/0/100	1,403 a	1,000 c	5,000 c		6,000
From: Walker Mill Road			1,000 b				
To: MD 214 (Central Avenue)							
							Total Funds: 6,000

Description: The project consists of reconstructing Addison Road from Walker Mill Road to MD 214. Initially four travel lanes with a median will be constructed Improvements will include roadway widening, the construction of crosswalks, sidewalks, landscaping, street lighting and a roadway median to improve the safety, function, capacity and appearance of the roadway. The cost shown does not reflect current prices and is based on over 10 year old project scope. Current preliminary engineering has estimated that the cost could go up to \$32 million. 

TIP ID: 6369 Agency ID: _____ Title: Cherry Hill Road III					Complete: 2021	Total Cost:	\$1,200
Facility: Cherry Hill Road	Local	0/0/100	300 a	400 a	500 a		900
From: Selman Road							
To: US 1							
							Total Funds: 900

Description:

TIP ID: 6370 Agency ID: _____ Title: Pedestrian Safety Improvements					Complete: 2024	Total Cost:	\$43,609	
Facility: Various locations County-wide	Local	0/0/100	2,904 a	1,940 a	1,400 a	1,225 a	9,910 e	30,575
From:			450 b	200 b	400 b	350 b		
To:			8,070 c	7,675 c	3,675 c	3,800 c		
							Total Funds: 30,575	

Description: This project will involve the creation of multiple projects to provide for roadway improvements that are oriented toward the enhancement of pedestrian safety, particularly along roadways or at intersections which have a history of crashes. Priority will be given to the correction of problems where there is a high incidence of pedestrian related crashes. This is a project intended for sub-projects with no right-of-way cost, and with a construction cost of \$750,000 each or less.

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6371 Agency ID:		Title: Planning and site acquisition 2			Complete: 2021		Total Cost: \$2,754
Facility: Various locations County-wide	Local	0/0/100	350 a	250 a	250 a	250 b	1,045
From:			650 b	295 e			
To:			150 c				
			149 e				

Total Funds: 1,045

Description: This project provides funding for acquiring land for road rights-of-way, reforestation mitigation and wetland banking in developing areas of the County. The demolition of structures on acquired land is also included. It also provides funding for future project planning studies in order to verify need, determine scope and develop preliminary cost estimates.


Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6372 Agency ID:		Title: Street Lights and Traffic Signals 2			Complete: 2024		Total Cost: \$39,076
Facility: Various locations County-wide	Local	0/0/100	540 a	150 a	300 a	100 a	500 a
From:			3,390 c	1,300 c	3,150 c	400 c	3,100 c
To:			16,146 e	1,100 e	1,100 e	110 e	1,400 e

Total Funds: 12,710

Description: This project consists of installing traffic control signals and new street lights at various locations throughout the county. The program includes installing new signals, upgrading of existing signals, replacement of aging signals, the Energy Abatement program, installation of traffic surveillance cameras and communications equipment, and the upgrade of existing street lighting on County roadways. This project also provides some funding for the TRIP (traffic Response and Information Partnership) Center.

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6373 Agency ID:		Title: Traffic Congestion Improvements			Complete: 2020		Total Cost: \$17,842
Facility: Various locations County-wide	Local	0/0/100	5,000 a	1,000 a	1,000 a		7,000
From:			5,767 c	2,500 c	2,500 c		
To:							
	PRIV	0/0/0	75 b				

Total Funds: 7,000

Description: This project provides funding for roadway enhancements including turning lanes, improved approaches, traffic signals, signage at various intersections, bus stop pads, traffic calming devices, landscaping, pedestrian facilities and thermoplastic markings. This project will also provide for roadway improvements that are oriented toward enhancement of pedestrian safety, particularly along roadways or at intersections which have a history of crashes. Included in the work to be performed is the acquisition of right-of-way along the Leeland Road approach to be the Leeland Road/Moores Plains Boulevard intersection. FY 2015 "other" funding includes \$75k from developer contributions. 

**SUBURBAN MARYLAND
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**


Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 6374 Agency ID:		Title: Transportation Enhancements 2			Complete: 2023	Total Cost:	\$20,153	
Facility: Various locations County-wide	Local	0/0/100	475 a	100 a	200 a	200 a	250 a	6,661
From:			5,881 c	750 c	750 c	1,275 c	3,034 e	
To:			34 e	34 e	34 e	34 e		

Total Funds: 6,661

Description: This project provides funding for nonstandard transportation improvements which are time sensitive. Work may entail, but will not be limited to requirements associated with the Americans with Disabilities Act, bus stop pads, traffic calming devices, landscaping, pedestrian facilities, thermoplastic pavement markings to provide maximum safety and nighttime visibility, spot safety road improvements and installation and repair of guardrail.

TIP ID: 6375 Agency ID:		Title: Bus Mass Transit/ Metro Access 2			Complete: 2024	Total Cost:	\$5,606	
Facility: Various locations County-wide	Local	0/0/100	376 a	250 a	250 a	250 a	475 e	1,850
From:			50 b	175 e	50 b	50 b		
To:			737 c		175 e	175 e		
			992 e					

Total Funds: 1,850

Description: Funds from this project may be used to purchase buses, construct related capital facilities for both bus and rail activities, roadway improvements and provide pedestrian and vehicular access improvement to metro stations and bus stops. 

TIP ID: 6509 Agency ID:		Title: Governor's Bridge Road Bridge Reconstruction			Complete: 2020	Total Cost:	\$4,210	
Facility: Governor's Bridge Road Bridge Reconstructi	BR	80/0/20	750 a	50 a				1,550
From: west of Patuxent River			50 b	1,500 c				
To: east of Patuxant river			1,500 c					

Local	0/0/100	180 e	180 e					180
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Total Funds: 1,730

Description:

NORTHERN VIRGINIA

Interstate

I-495 HOT/HOV Lanes

TIP ID: 6361 Agency ID: 106025 Title: I-495 Northern Section Shoulder Use Debt Service

I-66 Multimodal Improvement Project, inside the Beltway

TIP ID: 6544 Agency ID: 108424 Title: I-66 Inside of the Beltway Initiatives

TIP ID: 6545 Agency ID: 110392 Title: I-66 Inside of the Beltway Initiatives GARVEE DEBT SERVICES

Reconstruction of I-66/ Rte. 15 Interchange

TIP ID: 5930 Agency ID: 100566 Title: I-66 / Route 15 IINTERCHANGE RECONSTRUCTION

TIP ID: 6543 Agency ID: 110376 Title: I-66 / Route 15 IINTERCHANGE RECONSTRUCTION GARVEE DEBT SERVICE

Primary

Construct VA 234 Bypass Interchange @ Balls Ford Road

TIP ID: 6621 Agency ID: T20906 Title: VA 234 Bypass Interchange @ Balls Ford Road

Lee Highway Widening

TIP ID: 6604 Agency ID: 110329 Title: Lee Highway Widening Phase II

TIP ID: 6605 Agency ID: 111986 Title: Lee Highway Widening Phase II -- GARVEE DEBT SERVICE

Route 1 Improvements

TIP ID: 6446 Agency ID: 104303 Title: Route 1 Widening from Featherstone Road to Mary's Way

Route 7 (Leesburg Pike) Widening (VA 267 to Reston Ave.)

TIP ID: 6546 Agency ID: 110377 Title: #HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PH 1 GARVEE DEBT SERV

TIP ID: 6547 Agency ID: 110378 Title: HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PHASE 2 GARVEE DEBT SE

TIP ID: 6519 Agency ID: 99478 Title: #HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PHASE 1

Rte. 28 Widening

TIP ID: 6298 Agency ID: 96721 Title: Route 28 Widening

Sudley Road Third Lane

TIP ID: 6617 Agency ID: T-105 Title: Sudley Road 3rd Lane, NB

US 1 Construct 6-Lane Divided Roadway

TIP ID: 6204 Agency ID: 90339 Title: Widen US Route 1

US 1/ VA 123 Interchange, Widen

TIP ID: 6310 Agency ID: 94102 Title: US 1/RT 123 Interchange Construction Phase-I (Route 1 Widening ony)

VA 7, Widen, Upgrade

TIP ID: 6539 Agency ID: 106917 Title: #HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PHASE 2

Secondary

Balls Ford Road- Widening from 2 to 4 lanes

TIP ID: 6623 Agency ID: T20903 Title: Rte 621 BALLS FORD ROAD WIDEN TO 4 LANES

Dulles West Blvd. Phase I

TIP ID: 6601 Agency ID: Title: Dulles West Boulevard Phase 2

TIP ID: 6600 Agency ID: Title: Dulles West Boulevard Phase 1

TIP ID: 6602 Agency ID: Title: Dulles West Boulevard Phase 3

VDOT

Neabsco Mills Road widen to 4 lanes

TIP ID: 6541 Agency ID: 107947 Title: NEABSCO MILLS ROAD - Widen to 4 lanes

Rogues Road Reconstruction

TIP ID: 6429 Agency ID: 104300 Title: Rogues Road Reconstruction

Route 7 George Washington Boulevard Overpass

TIP ID: 6553 Agency ID: 105584 Title: ROUTE 7/GEORGE WASHINGTON BLVD OVERPASS

University Boulevard Extension

TIP ID: 6559 Agency ID: 104816 Title: RTE 840 UNIVERSITY BOULEVARD WIDENING AND EXTENSION -PE ONLY

VA 638 Rolling Road Widening

TIP ID: 6247 Agency ID: 5559 Title: Rolling Road

VA Route 7 Interchange at VA Route 690

TIP ID: 6618 Agency ID: 111666 Title: ROUTE 7/ROUTE 690 INTERCHANGE #SMART18

Urban

Spring Street Widen 4 to 6 lanes, intersection & ramp impv., sidewalks

TIP ID: 6537 Agency ID: 105521 Title: Widen East Spring Street

Widen Liberia Avenue

TIP ID: 6550 Agency ID: 102903 Title: Widen Liberia Avenue - PE Only

Bike/Ped

Project Grouping for Construction: Recreational Trails

TIP ID: 6485 Agency ID: Title: Project Grouping: Construction: Recreational Trails

Bridge

Project Grouping: Construction: Bridge Rehabilitation/Replacement/Reconstruction

TIP ID: 5503 Agency ID: TIPGRP001 Title: Construction: Bridge Rehabilitation/Replacement/Reconstruction

TIP Grouping for Preventive Maintenance for Bridges

TIP ID: 5525 Agency ID: TIPGRP006 Title: TIP Grouping for Preventive Maintenance for Bridges

Enhancement

TIP Grouping project for Construction: Transportation Enhancement Byway Non-Traditional

TIP ID: 5523 Agency ID: TIPGRP004 Title: TIP Grouping project for Construction: Transportation Enhancement Byway

ITS

TIP Grouping project for Maintenance: Traffic and Safety Operations

TIP ID: 5526 Agency ID: TIPGRP007 Title: TIP Grouping project for Maintenance: Traffic and Safety Operations

Other

TIP Grouping project for Construction: Safety/ITS/Operational Improvements

TIP ID: 6548 Agency ID: 110375 Title: #HB2.FY17 Const Inter AT RTE 15/17/29 BUS GARVEE DEBT SERVICES

TIP ID: 5506 Agency ID: TIPGRP003 Title: TIP Grouping project for Construction: Safety/ITS/Operational Improvements

Virginia Statewide Vehicle Fuel Conversion Program

TIP ID: 6041 Agency ID: T11802 Title: Virginia Statewide Vehicle Fuel Conversion Program

CMAQ

BUS REPLACEMENT (OMNIRIDE EXPRESS COMMUTER BUSES)

TIP ID: 6630 Agency ID: T21459 Title: BUS REPLACEMENT (OMNIRIDE EXPRESS COMMUTER BUSES)

COMMUTER ASSISTANCE PROGRAM

TIP ID: 6627 Agency ID: T21240 Title: COMMUTER ASSISTANCE PROGRAM

FAIRFAX COUNTYWIDE TRANSIT STORES

TIP ID: 6628 Agency ID: T21448 Title: FAIRFAX COUNTYWIDE TRANSIT STORES

PRTC COMMUTER ASSISTANCE PROGRAM

TIP ID: 6629 Agency ID: T21457 Title: PRTC COMMUTER ASSISTANCE PROGRAM

TRANSIT STORE FUNDING - Alexandria

TIP ID: 6626 Agency ID: T21453 Title: Transit Store Funding - Alexandria

WMATA REPLACEMENT BUSES

TIP ID: 6631 Agency ID: T21031, T2103 Title: WMATA REPLACEMENT BUSES

Federal Lands Highway Program

Project Grouping: Construction : Federal Lands Highway

TIP ID: 6441 Agency ID: Title: Project Grouping: Constuction : Federal Lands Highway

Maintenance

TIP Grouping project for Preventive Maintenance and System Preservation

TIP ID: 5524 Agency ID: TIPGRP005 Title: TIP Grouping project for Preventive Maintenance and System Preservation

Transit

CSX RF & P Rail Corridor Third Track

TIP ID: 6402 Agency ID: VRE0018 Title: CSX RF&P Rail Corridor Capacity Improvements

Dulles Corridor Metrorail Project Phase II

TIP ID: 6362 Agency ID: 102891 and F Title: Route 28 Metrorail Station (Innovation Station)

Project Grouping :Transit: Ridesharing

TIP ID: 6330 Agency ID: Title: Transit Ridesharing

PRTC - Bus Acquisition / Replacement Program

TIP ID: 4506 Agency ID: PRTC0005 Title: PRTC - Bus Acquisition / Replacement Program

PRTC - Captial Cost of Contracting

TIP ID: 5601 Agency ID: PRTC0004 Title: PRTC - Preventive Maintenance

PRTC Security Enhancements

TIP ID: 5707 Agency ID: PRTC0006 Title: PRTC Security Enhancements

TIP Grouping for Transit Vehicles

TIP ID: 6331 Agency ID: Title: Transit : Vehicles

TIP Grouping project for Transit Access

TIP ID: 6333 Agency ID: Title: Transit : Access

TIP Grouping project for Transit Amenities

TIP ID: 6328 Agency ID: Title: Amenities

VDOT

VRE - Rolling Stock Acquisition

TIP ID: **4818** Agency ID: **VRE0001** Title: **Rolling Stock Modifications and Overhauls**

TIP ID: **4534** Agency ID: **VRE0009** Title: **Rolling Stock Acquisition**

VRE - Stations and Facilities

TIP ID: **4310** Agency ID: **VRE0011** Title: **VRE Stations and Facilities**

VRE - Tracks and Storage Yards

TIP ID: **4070** Agency ID: **VRE0007** Title: **VRE Storage Yards Improvements**

VRE Grant and Project Management

TIP ID: **4277** Agency ID: **VRE0003** Title: **Security Enhancements Systemwide**

TIP ID: **4489** Agency ID: **VRE0008** Title: **Grant and Project Management**

VRE Track Lease Improvements

TIP ID: **5489** Agency ID: **VRE0012** Title: **VRE Track Lease Improvements**

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 4070 Agency ID: VRE0007 Title: VRE Storage Yards Improvements			Complete: 2045 Total Cost: \$85,412							
Facility:	Sect. 5307	62/34/4	25,699 c	9,770 c						9,770
From: Systemwide										
To:	Sect. 5309	62/34/4	262 c							
	Sect. 5337-SGR	62/34/4	15,831 a 41,051 c	14,987 c						14,987
Total Funds: 24,757										

Description: As additional cars are added to accommodate ridership demand, storage yards and maintenance facilities must be obtained and/or upgraded. Improvements to the yards and maintenance facilities will allow additional maintenance to be performed by VRE contractors and additional vehicles to be stored.

TIP ID: 4277 Agency ID: VRE0003 Title: Security Enhancements Systemwide			Complete: 2045 Total Cost: \$6,180							
Facility:	Sect. 5307	80/16/4	1,017 c	105 c	105 c					210
From: Systemwide										
To:	Sect. 5337-SGR	80/16/4	676 c							
Total Funds: 210										

Description: Grantees must certify that at least 1% of 5307 funding received each fiscal year is being used for transit security projects.

TIP ID: 4310 Agency ID: VRE0011 Title: VRE Stations and Facilities			Complete: 2045 Total Cost: \$650,002							
Facility: VRE Stations and Facilities	Sect. 5307	80/20/0	957 c							
From: Systemwide										
To:	Sect. 5309	80/20/0	500 c							
	Sect. 5337-SGR	80/16/4	13,956 c	2,495 c	946 c					3,441
	Sect. 5337-SGR 1	62/34/4	5,000 c	5,000 c	5,000 c					10,000
Total Funds: 13,441										

Description: Involves the addition of second platforms, canopy and platform extensions, replacement of signage and other related improvements at various VRE stations in order to keep the stations in good repair. This work will be done at various stations throughout the VRE system. Includes upgrades at Washington Union Terminal.

TIP ID: 4489 Agency ID: VRE0008 Title: Grant and Project Management			Complete: 2045 Total Cost: \$11,370							
Facility: System Wide	Sect. 5307	80/20/0	3,846 a	650 a	650 a					1,300
From: Northern Virginia										
To:										
Total Funds: 1,300										

Description: The costs of grants and project management, as well as staff participation in federal grants management seminars, will be capitalized to the grants, reserving operating funds for service provision.

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 4506 Agency ID: PRTC0005 Title: PRTC - Bus Acquisition / Replacement Program								Complete:	Total Cost:	\$10,338	
Facility: PRTC - Bus Acquisition	CMAQ	29/67/4	18,303 c								
From: NOVA Districtwide											
To:	Sect. 5307	100/0/0	1,200 c	850 c	850 c	850 c				2,550	
	Sect. 5309	80/16/4	572 a								
	Sect. 5339(a)	100/0/0	3,600 c								
Total Funds:										2,550	

Description: Replacement of sixteen commuter buses manufactured in 2002 that have reached the end of their useful life.

TIP ID: 4534 Agency ID: VRE0009 Title: Rolling Stock Acquisition								Complete: 2045	Total Cost:	\$647,913	
Facility: VRE Rolling Stock	Sect. 5307	80/16/4	3,894 c	1,947 c	1,947 c					3,894	
From: Systemwide											
To:	Sect. 5337-SGR	80/16/4	9,314 c	4,657 c	4,657 c					9,314	
Total Funds:										13,208	

Description: This project includes funding for procurement additional rolling stock to support fleet expansion and fleet replacement, including 29 coaches under the current contract with Sumitomo.

TIP ID: 4818 Agency ID: VRE0001 Title: Rolling Stock Modifications and Overhauls								Complete: 2045	Total Cost:	\$48,207	
Facility: VRE Rolling Stock	Sect. 5307	80/16/4	3,388 c								
From: Systemwide											
To:	Sect. 5309	80/16/4	2,283 c								
	Sect. 5337-SGR	80/16/4	22,239 c	3,420 c						3,420	
Total Funds:										3,420	

Description: Technological developments and safety mandates from the Federal Railroad Administration (FRA), may require ongoing improvements to the VRE fleet as well as other ongoing improvements consistent with BRE's rolling stock asset management program. Projects that bring VRE into compliance with future federal mandates will be given the highest funding priority. Implementing PTC as required by FRA.

TIP ID: 5489 Agency ID: VRE0012 Title: VRE Track Lease Improvements								Complete: 2045	Total Cost:	\$685,430	
Facility: VRE Track	STBG	50/34/16	95,218 c	18,190 c						18,190	
From: Systemwide											
To:											
Total Funds:										18,190	

Description: Provides capitalized access fees in the form of long term and related capital improvements on the railroad systems that VRE operates on, railroad systems owned by Amtrak, CSX, and Norfolk Southern.

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 5503 Agency ID: TIPGRP001		Title: Construction: Bridge Rehabilitation/Replacement/Reconstruction					Complete:		Total Cost:		\$184,923
Facility: District-wide Bridges	AC	89/11/0		530	a					530	
From:											
To:	AC Conversion	80/20/0		125	c	4,384	c			4,509	
	RSTP	80/20/0					125	a		125	
	STBG	80/20/0				74	a			74	
Total Funds:										5,238	

Description: TIP Grouping project for Construction: Bridge Rehabilitation/Replacement/Reconstruction. See CLRP for the derivation of STIP Grouping and how they are part of the TIP. Individual projects within STIP Group are shown on Appendix A.

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 5506 Agency ID: TIPGRP003		Title: TIP Grouping project for Construction: Safety/ITS/Operational Improve					Complete:		Total Cost:		\$975,536
Facility: Safety/ITS/Operational Projects	AC 2	91/9/0		8,055	c	11,815	c	78	c	19,948	
From: Districtwide											
To:	AC 5	83/17/0		1,057	a	20,941	a	16,950	a	38,948	
	AC Conversion	80/20/0		878	a	1,203	a	1,301	a	4,547	
				445	c	437	c	283	c		
	CMAQ 1	80/20/0		400	a	1,822	a	2,530	a	7,969	
				2,306	c			911	c		
	DEMO	80/20/0		1,073	c					1,073	
	HSIP	90/10/0		690	a	111	a	89	b	2,149	
				605	b	278	b	376	c		
	NHPP	80/20/0		781	c	4,987	a			5,768	
	RSTP	80/20/0		5	a	150	a	1,291	a	9,476	
				875	b	3,125	c	600	c		
				3,430	c						
	State/Local	0/80/20		688	c	63	a			751	
	STBG	80/20/0		1,313	b	1,270	c			7,437	
				4,854	c						
Total Funds:										98,066	

Description: TIP Grouping project for Construction: Safety/ITS/Operational Improvements. See Appendix A for specific projects and UPC information.

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5523 Agency ID: TIPGRP004 Title: TIP Grouping project for Construction: Transportation Enhancement By			Complete:		Total Cost:		\$176,344			
Facility: Transportation Enhancement Byway Non-Tr	AC	100/0/0		10 b		330 b				340
From: NoVA District										
To:	AC 1	92/8/0		11,779 c	6,537 c	718 c				19,034
	AC 2	80/20/0		139 a	292 a	425 a				856
	AC Conversion	80/20/0		63 a 238 c	166 a	285 a 669 c				1,421
	CMAQ	80/20/0		2,084 a 5,802 c	313 a 2,081 c	13 a 688 c				10,981
	DEMO	80/20/0		196 c						196
	NHPP	80/20/0		188 b	500 c					688
	RSTP	80/20/0		398 a 1,567 c	745 a 403 c	200 a 721 c				4,034
	STBG	80/20/0		1,331 c						1,331
	TAP	80/20/0		403 c						403
Total Funds:										39,284

Description: TIP Grouping project for Construction: Transportation Enhancement Byway Non-Traditional. See CLRP for the derivation of STIP Grouping and how they are part of the TIP. See Appendix A to see individual projects within this STIP Group.

TIP ID: 5524 Agency ID: TIPGRP005 Title: TIP Grouping project for Preventive Maintenance and System Preservat			Complete:		Total Cost:		\$86,157			
Facility: Preventive Maintenance and System Preser	STBG	100/0/0		16,242 c	20,571 c	20,654 c				57,467
From: NoVA District										
To:										
Total Funds:										57,467

Description: This listing covers a number of projects/programs throughout Northern Virginia District. The nature/scope of these projects are Preventive Maintenance and System Preservation. These projects have been determined to be exempt from conformity requirements and are eligible for a Categorical Exclusion (CE) under NEPA and hence may be grouped as per April 9, 2008 MOA between FHWA, FTA, VDOT & VDRPT which was subsequently adopted by the NCR-TPB. Individual projects within the STIP Group are found in Appendix A.

TIP ID: 5525 Agency ID: TIPGRP006 Title: TIP Grouping for Preventive Maintenance for Bridges			Complete:		Total Cost:		\$17,741			
Facility: Bridges	STBG	100/0/0		2,734 c	3,462 c	3,476 c				9,672
From: NoVA District										
To:										
Total Funds:										9,672

Description: TIP Grouping for Preventive Maintenance for Bridges.

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 5526	Agency ID: TIPGRP007	Title: TIP Grouping project for Maintenance: Traffic and Safety Operations					Complete:	Total Cost:		\$39,434	
Facility: Traffic and Safety Operations	STBG	100/0/0		3,632 c	4,600 c	4,618 c				12,850	
From: NoVA District											
To:										Total Funds: 12,850	
Description: TIP Grouping project for Maintenance: Traffic and Safety Operations. See CLRP for the derivation of STIP Grouping and how they are part of TIP. Individual projects within the STIP Group are found in Appendix A.											

TIP ID: 5601	Agency ID: PRTC0004	Title: PRTC - Preventive Maintenance					Complete: 2045	Total Cost:		
Facility:	Sect. 5307	80/0/20		2,120 c	2,120 c	2,120 c				6,360
From:										
To:	Sect. 5337-SGR	80/0/20		770 c	770 c	770 c				2,310
	Sect. 5339(a)	80/0/20		2,030 c	2,030 c	2,030 c				6,090
										Total Funds: 14,760
Description: Maintenance of the Omniride and Omnilink fleet.										

TIP ID: 5707	Agency ID: PRTC0006	Title: PRTC Security Enhancements					Complete:	Total Cost:		\$846	
Facility: PRTC Transit Center	Sect. 5307	80/16/4	31 c	17 c	17 c	18 c				52	
From:											
To:										Total Funds: 52	
Description: Ongoing Improves safety and security at the PRTC Transit Center. Grantees must certify that at least 1% of Formula funding received each fiscal year is being used for transit security projects. Projects include cameras, additional lighting, drills, communications systems, facility access, System Safety Security Plan, etc.											

TIP ID: 5930	Agency ID: 100566	Title: I-66 / Route 15 IINTERCHANGE RECONSTRUCTION					Complete:	Total Cost:		\$59,058	
Facility: i-66	AC	100/0/0	1,486 b	1,845 b	1,614 b	2,036 c				5,819	
From: Rte. I-66/Rte 15 Interchange			23,342 c		324 c						
To:	AC Conversion	100/0/0	5,000 b								
			58,320 c								
	IM	90/10/0	3,400 a								
	NHPP	100/0/0	2,026 b								
										Total Funds: 5,819	
Description: FROM: 0.224 Miles West of Rte. 15 TO: 0.371 Miles East of Rte. 15 (0.8380)											

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6041 Agency ID: T11802 Title: Virginia Statewide Vehicle Fuel Conversion Program							Complete:	Total Cost:	\$25,740	
Facility:	AC	80/20/0	37,834 c							
From:										
To:	AC Conversion	80/20/0	1,227 c							
	CMAQ	80/20/0	6,334 c	600 c	1,000 c	2,754 c				4,354
Total Funds:										4,354

Description: The project is for implementing the Statewide Vehicle Fuel Conversion Program.

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6204 Agency ID: 90339 Title: Widen US Route 1							Complete:	Total Cost:	\$7,490	
Facility: US 1	AC	100/0/0	8,020 a							
From: Brady's Hill Road 0.1 miles south of										
To: Dumfries Road 02. miles north of	EB/MG	80/20/0	182 a							
	NHPP	100/0/0	125 a							
	RSTP	80/20/0	30 a	16 a	21 a	23 a				60
	STBG	80/20/0	365 a							
Total Funds:										60

Description: Widen US Route 1 from 4 to 6 lanes between the above cited limits. This segment is part of a larger project included in the regional air quality conformity analysis (VP1ad: Widen US 1 between Brady's Hill Rd. and Cardinal Drive)

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6247 Agency ID: 5559 Title: Rolling Road			Complete: 2025 Total Cost: \$51,210						
Facility: VA 638 Rolling Road	AC	80/20/0	4,599 b						
From: VA 286 Fairfax Co. Pkwy (0.369 mi N. of Pk	AC 1	100/0/0			1,580 c				1,580
To: VA 644 Old Keene Mill Road	AC Conversion	80/20/0	1,457 b						1,457
	AC Conversion 1	68/32/0		3,142 b					3,142
	CMAQ	80/20/0	1,120 a						
	Local	0/0/100	5,000 a		8,734 c				8,734
			10,766 b						
	REVSH	0/100/0	141 a						
			4,856 b						
	RSTP	80/20/0	1,858 a						
			1,500 b						
	STBG 9	80/20/0	204 b						
Total Funds:									14,913

Description: Widening to 4 lanes

TIP ID: 6298 Agency ID: 96721 Title: Route 28 Widening			Complete: 2017 Total Cost: \$13,778						
Facility: VA 28 Nokesville Rd	AC	80/20/0	488 c						
From: Godwin Drive	AC 1	100/0/0	3,157 c						
To: City Southern Corporate Limits	NVTA-BOND	0/100/0	3,294 c						
	NVTA-PAYGO	100/0/0	2,029 c						
	REVSH	50/50/0	2,538 c						
	RSTP	80/20/0	1,312 a	128 c	170 c	187 c			485
			5,000 b						
			6,850 c						
Total Funds:									485

Description: Widen to six lanes

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6310 Agency ID: 94102		Title: US 1/RT 123 Interchange Construction Phase-I (Route 1 Widening ony)					Complete:		Total Cost:		\$56,414
Facility: US 1	AC	100/0/0	76,749 c								
From: 0.50 miles South of existing Rte 123	NHPP	100/0/0	8,439 c	3,291 c	8,128 c	1,484 c				12,903	
To: 0.40 miles North of existing Rte 123	RSTP	80/20/0	525 c								
	STBG	100/0/0	83 c	3,800 c						3,800	
Total Funds:										16,703	

Description: Wide Route 1 in association with the US-1/RT 123 Interchange project.. Purpose: improve the flow of traffic, reduce accidents, and support traffic demand from the planned development in the area.

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6328 Agency ID:		Title: Amenities					Complete:		Total Cost:		\$13,661
Facility:	AC	80/20/0	4,700 c								
From:	AC Conversion	90/10/0	3,180 c								
To:	AC Conversion 1	80/20/0	580 c	226 c						226	
	CMAQ	85/15/0	2,374 c								
Total Funds:										226	

Description:

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6330 Agency ID:		Title: Transit Ridesharing					Complete:		Total Cost:		\$23,508
Facility:	AC	100/0/0				47 c				47	
From:	AC Conversion 1	80/20/0		6,215 a	5,492 a	6,419 a				18,126	
To:	CMAQ	80/20/0				35 c				35	
Total Funds:										18,208	

Description:

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6331 Agency ID:		Title: Transit : Vehicles					Complete:		Total Cost:		\$34,474
Facility:	AC Conversion 1	80/20/0		2,655 c						2,655	
From:											
To:											
Total Funds:										2,655	

Description:

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6333	Agency ID:	Title: Transit : Access					Complete:	Total Cost:		\$24,205	
Facility:	AC Conversion	80/20/0		202 c	4,183 c					4,385	
From:											
To:											
Description:											
							Total Funds:	4,385			

TIP ID: 6361	Agency ID: 106025	Title: I-495 Northern Section Shoulder Use Debt Service					Complete:	Total Cost:		\$21,418	
Facility: I-495	AC	100/0/0	29,993 c								
From: South of Old Dominion Drive Overpass											
To: George Washington Memorial Highway	AC Conversion	100/0/0	4,257 c								
	NHPP	100/0/0	2,857 c	1,427 c	1,427 c	1,426 c				4,280	
							Total Funds:	4,280			

Description: Debt service line item for I-495 Northern Section Shoulder Use. Associated with construction project UPC 105130.

TIP ID: 6362	Agency ID: 102891 and F	Title: Route 28 Metrorail Station (Innovation Station)					Complete: 2018	Total Cost:		\$83,000	
Facility: 28 Innovation Station	CMAQ	80/20/0	9,251 c	1,773 c	45 c					1,818	
From: Silver Line at Route 28											
To:	NVTA-BOND	0/100/0	48,000 c								
	NVTA-PAYGO	0/100/0	21,000 c								
							Total Funds:	1,818			

Description: This metrorail station, part of PH II of the Silver Line extension, is vital to support the increase in development that has been approved. It will include pedestrian and bicycle improvements, bus bays and bus stop improvements, and park-and-ride and kiss-and-ride facilities. There is \$69 million in prior years (FY 2014) NVTA funding allocated to this project.

TIP ID: 6402	Agency ID: VRE0018	Title: CSX RF&P Rail Corridor Capacity Improvements					Complete: 2025	Total Cost:		\$104,160	
Facility: CSX RF&P Rail Corridor	State/Local	0/50/50	20,890 c	10,000 c						10,000	
From: CF 557 Hamilton Interlocking (HA)											
To: CF 1063 Slaters Lane Interlocking											
Description:	Track, Signal and Switch work and VRE second platforms that support capacity expansion, operational flexibility and service expansion, including the VRE Potomac Shores Station										
							Total Funds:	10,000			

TIP ID: 6429	Agency ID: 104300	Title: Rogues Road Reconstruction					Complete: 2020	Total Cost:		\$9,391	
Facility: Rogues Road	AC	100/0/0			5,901 c					5,901	
From: Fauquier/Prince William County Line											
To: RT 605	STBG	80/20/0	767 a		1,473 c					1,473	
			1,250 b								
							Total Funds:	7,374			

Description: Reconstruction without added capacity. Reconstruct and widen travel lanes and shoulders, improve drainage and safety of road and minimize maintenance.

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6441	Agency ID:	Title: Project Grouping: Constuction : Federal Lands Highway					Complete:	Total Cost:		\$10,541	

Facility:	AC	100/0/0				4,428 a				4,428
From:										
To:										Total Funds: 4,428

Description: Grouping for federally funded transportation improvements on federal lands.
 TIP AMD to add Federal Lands grouping - add \$163,363 (PB - FLAP) FFY15 CN phase (lco 05/27/15)

TIP ID: 6446	Agency ID: 104303	Title: Route 1 Widening from Featherstone Road to Mary's Way					Complete: 2019	Total Cost:		\$84,574	
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Facility: US 1 Route 1	AC	100/0/0				6,540 b				
From: Featherstone Road										
To: Mary's Way	AC Conversion	85/15/0	9,242 b	9,213 b	5,620 b					14,833
	NHPP	100/0/0	4,205 b							
	NVTA-PAYGO	0/100/0	4,100 a	37,535 c						37,535
			23,600 b							
	RSTP	80/20/0	-200 a							
										Total Funds: 52,368

Description: Widen from a 4 lane undivided highway to a 6 lane divided highway

TIP ID: 6485	Agency ID:	Title: Project Grouping: Construction: Recreational Trails					Complete:	Total Cost:		\$4,833	
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Facility:	AC	100/0/0				736 c				736
From:										
To:	RSTP	80/20/0	2,188 b	2,830 c						2,830
										Total Funds: 3,566

Description: Project Grouping for construction of recreational trails that do not impact the Air Quality Conformity Analysis.

NORTHERN VIRGINIA
 TRANSPORTATION IMPROVEMENT PROGRAM
 CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6519 Agency ID: 99478 Title: #HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PHASE 1			Complete: 2022			Total Cost: \$187,914			
Facility: RT 7 Leesburg Pike	AC	80/20/0	25,929 c						
From: Reston Ave	AC 1	100/0/0	196 a						
To: Jarrett Valley Drive			27,000 b						
			137,511 c						
AC Conversion	80/20/0		12,131 c	21,781 c	1,278 c				35,190
AC Conversion 1	100/0/0		1,154 a	2,039 b	2,768 b				6,196
			235 b						
NHPP	100/0/0		1,899 a						
RSTP	80/20/0		6,217 b						
			16,418 c						
STBG 9	100/0/0		2,748 c						
Total Funds:									41,386

Description: Rt 7 Corridor Improvements to add one travel lane both EB and WB; upgrade intersections; and construct pedestrian and bicycle facilities EB and WB.



FROM: Reston Avenue TO: Jarrett Valley Drive (0.5000 MI)

TIP ID: 6537 Agency ID: 105521 Title: Widen East Spring Street			Complete: 2019			Total Cost: \$11,468			
Facility: Spring Street	AC	100/0/0	73 a	3,373 b	3,512 c				6,885
From: Herndon Parkway			2,000 b						
To: Fairfax County Parkway	AC 1	80/20/0		715 b					715
	AC Conversion	80/20/0			415 b	200 b			615
	RSTP	80/20/0		90 b					90

Total Funds: 8,305

Description: Widen Spring Street from 4 lanes to 6 lanes, FXCO PKWY ramp improvements, intersection improvements, sidewalk



**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6539 Agency ID: 106917 Title: #HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PHASE 2			Complete: 2024 Total Cost: \$125,958								
Facility: VA 7 Leesburg Pike	AC	100/0/0	345 a								
From: Reston Avenue			35,000 b								
To: 500 ft. E of Colvin Forest Drive			43,084 c								
<hr/>											
	AC 1	0/100/0	957 a								
	AC 3	85/15/0	c								
	AC Conversion	80/20/0	14,171 c	8,602 c	7,074 c					15,676	
	AC Conversion 1	100/0/0		49 a	947 b	1,636 b				3,485	
				853 b							
<hr/>											
	NHPP	100/0/0	1,190 a								
			375 b								
<hr/>											
	RSTP	80/20/0	43 a								
			26,040 c								

Total Funds: 19,161

Description: Phase 2 for Rt 7 Corridor Improvements to add one travel lane both EB and WB; upgrade intersections; and construct pedestrian and bicycle facilities EB and WB

Reconstruction w/ Added Capacity - FROM: Reston Avenue TO: 500 ft. E of Colvin Forest Drive (3.2500 MI)

TIP AMD - add \$34,658 (RSTP) & \$956,677 (AC-Other GARVEE) FFY17 PE phase. (lco 9/27/16)

child project of UPC 99478

FROM: Reston Avenue TO: 500 ft. E of Colvin Forest Drive (3.2500 MI)

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6541 Agency ID: 107947 Title: NEABSCO MILLS ROAD - Widen to 4 lanes			Complete: 2024 Total Cost: \$35,013								
Facility: Neabsco Mills Road	AC	80/20/0	453 b		1,596 b					1,596	
From: Smoke Court	AC Conversion	80/20/0				1,596 b				1,596	
To: US 1 Jefferson Davis Highway	REVSH	50/50/0	2,000 b								
	RSTP	80/20/0	2,650 a		4,689 b					4,689	
			1,848 b								

Total Funds: 7,881

Description: Widen Neabsco Mills Road to 4 lanes between Smoke Ct (S. of Dale Blvd) and Route 1.

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6543 Agency ID: 110376 Title: I-66 / Route 15 IINTERCHANGE RECONSTRUCTION GARVEE DEBT SE			Complete:			Total Cost:			\$17,543
Facility: I 66	AC	100/0/0	14,612 a	1,650 a					1,650
From: Rte. I-66/Rte 15 Interchange									
To:	AC Conversion	100/0/0		1,557 a	1,459 a				3,016
	NHPP	100/0/0	2,931 a						
Total Funds:									4,666

Description:

TIP ID: 6544 Agency ID: 108424 Title: I-66 Inside of the Beltway Initiatives			Complete:			Total Cost:			\$125,000
Facility: I 66	AC	100/0/0	9,466 a						
From: I 495			-4,200 b						
To: US 29 Near Rosslyn, Arlington			-5,100 c						
	AC Conversion	100/0/0	1,031 a	4,253 a	3,214 a	4,050 b			12,373
					750 b	106 c			
	NHPP	100/0/0	4,003 a	3,214 a					3,214
Total Funds:									15,587

Description: From: Exit 67 DULLES AIRPORT ACCESS ROAD TO: 71 N. GEORGE MASON DRIVE (4.0000MI)

TIP ID: 6545 Agency ID: 110392 Title: I-66 Inside of the Beltway Initiatives GARVEE DEBT SERVICES			Complete:			Total Cost:			\$30,418
Facility: I 66	AC	100/0/0	26,621 a						
From: I 495									
To: U 29 Near Rosslyn, Arlington	AC Conversion	100/0/0		3,438 a	3,236 a	3,045 a			9,719
	NHPP	100/0/0	3,797 a						
Total Funds:									9,719

Description:

TIP ID: 6546 Agency ID: 110377 Title: #HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PH 1 GARVEE DEBT			Complete: 2022			Total Cost:			\$250,009
Facility: VA 7	AC	100/0/0	24,311 a						
From: Reston Avenue									
To: Jarrett Valley Drive	AC Conversion	100/0/0	1,413 a	2,096 a	2,480 a				4,576
	NHPP	100/0/0	698 a						
Total Funds:									4,576

Description:



NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6547 Agency ID: 110378 Title: HB2.FY17 RTE 7 CORRIDOR IMPROVEMENTS - PHASE 2 GARVEE DE Complete: 2022 Total Cost: \$14,931									
Facility: VA 7	AC	100/0/0	14,197 a						
From: Reston Avenue									
To: Jarrett Valley Drive	AC Conversion	100/0/0		1,401 a	1,552 a	1,457 a			4,410
	NHPP	100/0/0	1,566 a						
Total Funds:									4,410

Description:



TIP ID: 6548 Agency ID: 110375 Title: #HB2.FY17 Const Inter AT RTE 15/17/29 BUS GARVEE DEBT SERVICES Complete: Total Cost: \$9,037									
Facility: US 15 INTERCHANGE	AC	100/0/0	8,098 a						
From: US 29									
To: VA 17	AC Conversion	100/0/0	428 a	818 a	764 a	719 a			2,301
	NHPP	100/0/0	485 a						
Total Funds:									2,301

Description:

TIP ID: 6550 Agency ID: 102903 Title: Widen Liberia Avenue - PE Only Complete: Total Cost: \$1,554									
Facility: Liberia Avenue	RSTP	80/20/0	911 a	643 a					643
From: VA 28									
To: Quarry Road									
Total Funds:									643

Description: Reconstruction w/ Added Capacity

TIP ID: 6553 Agency ID: 105584 Title: ROUTE 7/GEORGE WASHINGTON BLVD OVERPASS Complete: Total Cost: \$27,339									
Facility: VA 7 Harry Bird Highway	AC	80/20/0	191 b	11,526 c					11,526
From: Overpass @ G.W. Blvd									
To:	AC Conversion	80/20/0		191 b	8,526 c	3,000 c			11,717
	RSTP	80/20/0	1,367 a	8,031 c					8,031
			5,722 b						
Total Funds:									31,274

Description: Project will Improve traffic operations on Route 7 by constructing a grade separated overpass at Route 1050 George Washington Blvd. FROM: 0. 25 MI. S. OF RESEARCH PLACE TO: CENTER LINE OF RESEARCH PLACE (0.2500 MI)

TIP ID: 6559 Agency ID: 104816 Title: RTE 840 UNIVERSITY BOULEVARD WIDENING AND EXTENSION -PE O Complete: Total Cost: \$32,985									
Facility: University Boulevard	RSTP	80/20/0			1,700 a				1,700
From: VA 1566 Suddly Manor Drive									
To: VA 621 Devlin Road									
Total Funds:									1,700

Description: FROM: Route 621 (Devlin Road) TO: Route 1566 (Sudley Manor Drive) (1.2900 MI)

VDOT - Bicycle/Pedestrian Accommodations Included a - PE b - ROW Acquisition c - Construction d - Study e - Other

**NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total	
TIP ID: 6600 Agency ID:		Title: Dulles West Boulevard Phase 1					Complete: 2022		Total Cost:		
Facility: Dulles West Blvd	NVTA-PAYGO	0/100/0		8,100 b						8,100	
From: Dulles Landing Drive											
To: Hutchinson Farm Drive											
Description:											
Total Funds: 8,100											

TIP ID: 6601 Agency ID:		Title: Dulles West Boulevard Phase 2					Complete:		Total Cost:		
Facility: Dulles West Blvd	NVTA-PAYGO	0/70/30		9,114 c						9,114	
From: Hutchinson Farm Drive											
To: Arcola Blvd											
Description: 4-lane divided											
Total Funds: 9,114											

TIP ID: 6602 Agency ID:		Title: Dulles West Boulevard Phase 3					Complete:		Total Cost:		
Facility: Dulles West Blvd.	BD	0/0/100		10,600 c						10,600	
From: Arcola Blvd.											
To: Northstar Blvd.	NVTA	0/70/30				12,100 b				12,100	
Total Funds: 22,700											
Description: Construct new 4-lane divided											

TIP ID: 6604 Agency ID: 110329		Title: Lee Highway Widening Phase II					Complete: 2024		Total Cost: \$66,974	
Facility: US 29 Lee Highway	AC	100/0/0	5,478 a							
From: VA 659 Union Mill Road	AC Conversion	100/0/0		235 a	246 a	259 a			740	
To: Buckleys Gate Drive	NHPP	100/0/0	174 a							
Total Funds: 740										



Description: Widen Route 29 from 4 lanes to 6 lanes from Union Mill Road to Buckley's Gate Drive, with added capacity, improved geometrics and pedestrian/bicycle facilities.

Corresponding Debt Service UPC is 111986.

TIP ID: 6605 Agency ID: 111986		Title: Lee Highway Widening Phase II -- GARVEE DEBT SERVICE					Complete: 2037		Total Cost: \$19,188	
Facility: US 29 Lee Highway	AC	100/0/0	19,125 a			204 a				204
From: VA 659 Union Mill Road	AC Conversion	100/0/0		228 a	216 a					444
To: Buckleys Gate Drive	NHPP	100/0/0	184 a							
Total Funds: 648										

Description: Debt Service Required for construction of UPC 110329

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total						
TIP ID: 6617 Agency ID: T-105 Title: Sudley Road 3rd Lane, NB						Complete: 2021		Total Cost:	\$7,400						
Facility: VA 234 Sudley Road	State/Local	0/100/0			7,400	c			7,400						
From: Grant Avenue															
To: Godwin Drive															
Description: Construct the 3rd lane NB between Grant Avenue & Godwin Drive															
TIP ID: 6618 Agency ID: 111666 Title: ROUTE 7/ROUTE 690 INTERCHANGE #SMART18						Complete: 2025		Total Cost:	\$36,165						
Facility: VA 7 Harry Byrd Highway	AC	100/0/0	3,948	a											
From: VA 690 Hillsboro Road															
To:	NHPP	100/0/0			602	b			602						
Description: This new Interchange at RT 7 and RT 690 will include a shared use path and four ramps.															
TIP ID: 6621 Agency ID: T20906 Title: VA 234 Bypass Interchange @ Balls Ford Road						Complete: 2027		Total Cost:	\$145,000						
Facility: VA 234	PRIV	0/0/0	14,001	a	12,300	b	118,100	c	130,400						
From: Balls Foard Relocated															
To:															
Description: Construct an interchange at Balls Ford Road FROM: 0.6 Mi. S. of Existing Balls Ford Road (Rte 621) TO: Existing Balls Ford Road (Rte 621) (0.6000 MI)															
TIP ID: 6623 Agency ID: T20903 Title: Rte 621 BALLS FORD ROAD WIDEN TO 4 LANES						Complete: 2023		Total Cost:	\$67,405						
Facility: VA 621 Balls Ford Road	PRIV	0/0/0	5,435	a	9,570	b	52,400	c	61,970						
From: VA 234 Sudley Road															
To: Groveton Road															
Description: FROM: Groveton Road TO: Sudley Road (Route 234) (1.9000 MI)															
TIP ID: 6626 Agency ID: T21453 Title: Transit Store Funding - Alexandria						Complete: 2025		Total Cost:	\$1						
Facility:	CMAQ	80/20/0			600	e			600						
From:															
To:															
Description: Monitoring Fund															
TIP ID: 6627 Agency ID: T21240 Title: COMMUTER ASSISTANCE PROGRAM						Complete: 2025		Total Cost:	\$34,533						
Facility:	CMAQ	80/20/0	1,415	e	3,198	e	4,131	e	4,484	e	4,811	e	408	e	18,447
From:															
To:	RSTP	80/20/0	7,040	e	2,975	e	1,029	e							11,044
Description:															
									Total Funds: 29,491						

NORTHERN VIRGINIA
 TRANSPORTATION IMPROVEMENT PROGRAM
 CAPITAL COSTS (in \$1,000)

			Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6628			Agency ID: T21448			Title: FAIRFAX COUNTYWIDE TRANSIT STORES			Complete: 2025		Total Cost: \$3,760	
Facility:			CMAQ	80/20/0		600 e	600 e	620 e	640 e	650 e	650 e	3,760
From:												
To:			Total Funds: 3,760									
Description:												
TIP ID: 6629			Agency ID: T21457			Title: PRTC COMMUTER ASSISTANCE PROGRAM			Complete: 2025		Total Cost: \$2,050	
Facility:			CMAQ	80/20/0		300 e	350 e	350 e	350 e	350 e	350 e	2,050
From:												
To:			Total Funds: 2,050									
Description:												
TIP ID: 6630			Agency ID: T21459			Title: BUS REPLACEMENT (OMNIRIDE EXPRESS COMMUTER BUSES)			Complete: 2025		Total Cost: \$11,978	
Facility:			CMAQ	80/20/0							1,500 e	1,500
From:												
To:			Total Funds: 1,500									
Description:												
TIP ID: 6631			Agency ID: T21031, T2103			Title: WMATA REPLACEMENT BUSES			Complete: 2025		Total Cost: \$3,700	
Facility:			CMAQ	80/20/0							3,700 e	3,700
From:												
To:			Total Funds: 3,700									
Description:												

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

		Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5853		Agency ID:		Title: Rail Cars - Replacement, Rehabilitation, Expansion, & Enhancements							
Facility:		Local	0/0/100		89,348 e	6,300 e	114,693 e	103,610 e	74,947 e	265,787 e	654,684
From:											
To:		PRIIA	50/0/50		235,101 e	81,305 e					316,406
		Sect. 5337-SGR	80/0/20		95,000 e	55,156 e	86,811 e	88,516 e	90,271 e	92,079 e	507,833
		WIP	0/0/100		1,339 e	5,585 e	37,961 e	6,539 e	1,505 e	3,020 e	55,948
Total Funds: 1,534,871											

Description: Provides funds for:

- a. Replacement of Rail Cars: replacement of the rail fleet, including the 1000-Series and 4000-Series rail cars.
- b. Rehabilitation of Rail Cars: mid-life rehabilitation of rail fleet.
- c. Rail Fleet Expansion: expansion of the rail fleet to meet ridership growth.
- d. Rail Enhancements: enhancements to the rail fleet that improve safety, reliability, and passenger comfort.
- e. Preventative Maintenance for railcars

		Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5854		Agency ID:		Title: Buses - Replacement, Rehabilitation, Expansion, & Enhancements							
Facility:		CMAQ	80/0/20		7,399 e	4,500 e	5,164 e	5,536 e	3,500 e	3,500 e	29,599
From:											
To:		Local	0/0/100		13,433 e	11,083 e	19,305 e	12,146 e	18,310 e	19,479 e	93,756
		Sect. 5307	80/0/20		126,187 e	157,114 e	162,296 e	142,155 e	147,847 e	151,404 e	887,003
		Sect. 5339(a)	80/0/20		10,530 e		14,156 e				24,686
		Sect. 5339(b)	80/0/20			14,156 e		14,156 e	14,156 e	14,156 e	56,623
Total Funds: 1,091,667											

Description: Provides funds for:

- a. Replacement of Buses: replacement of the bus fleet.
- b. Rehabilitation of Buses: mid-life rehabilitation of the bus fleet.
- c. Bus Enhancements: purchase and/or replacement of equipment that upgrades or enhances the capability of the bus fleet.
- d. Bus Fleet Expansion: expansion of the bus fleet to meet ridership growth.

		Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5855		Agency ID:		Title: MetroAccess and Service Vehicles							
Facility:		Local	0/0/100		6,000 e	4,200 e	4,620 e	5,082 e	5,590 e	5,590 e	31,082
From:											
To:											
Total Funds: 31,082											

Description: Provides funds for:

- a. MetroAccess Vehicles: purchase/ replacement of Metro Access vehicles.
- b. Replacement of Service Vehicles: purchase/ replacement of vehicles that will be used Authority-wide for service activities.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

		Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5856		Agency ID:		Title: Rail Line Segment Rehabilitation							
Facility:		Local	0/0/100		97,130 e	50,867 e	145,366 e	50,702 e	47,594 e	38,909 e	430,568
From:											
To:		PRIIA	50/0/50		58,899 e	125,696 e					184,595
		Sect. 5337-SGR	80/0/20		10,250 e			19,000 e	10,038 e	5,091 e	44,379
		WIP	0/0/100		8,000 e	5,500 e	4,000 e				17,500
Total Funds: 677,042											

Description: a. Provides funds for rehabilitation of segments of Metrorail system, particularly the Red, Orange and Blue lines.
b. Preventative Maintenance for rail system infrastructure rehabilitation.

TIP ID: 5857		Agency ID:		Title: Bus Garages - Systemwide Maintenance, Expansion, Rehabilitation, and Replacement							
Facility:		Local	0/0/100		15,000 e	93,595 e	65,257 e	99,635 e	75,335 e	47,313 e	396,135
From:											
To:		Sect. 5307	80/0/20		15,000 e						15,000
Total Funds: 411,135											

Description: Provides funds for:
a. Rehabilitation and Replacement of Bus Garages: upgrades, rehabilitation, and/or replacement of bus garages and maintenance facilities, including the rehabilitation of the Bladensburg bus facility and the replacement of the Southern Avenue, Royal Street (Cinder Bed Road), Shepard Parkway bus garages.
b. Maintenance of Bus Garages: maintenance of bus garages/maintenance facilities.
c. Expansion of Bus Garages: expansion of bus garages to meet storage and maintenance needs of growing fleet.

TIP ID: 5858		Agency ID:		Title: Systems and Technology							
Facility:		Local	0/0/100		84,305 e	101,548 e	109,606 e	134,877 e	128,911 e	115,508 e	674,755
From:											
To:											
Total Funds: 674,755											

Description: Provides funds for
a. Rail Power Systems: upgrade of rail system's power supply.
b. Operations Support Software: purchase and/or replacement of software that supports the transit system.
c. Business Support Software & Equipment: purchase and/or replacement of software and equipment that supports the agency's mission.
d. Rail Fare Equipment: purchase and/or replacement of fare equipment for the transit system.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

		Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5859		Agency ID:		Title: Track and Structures							
Facility:		Local	0/0/100		69,846 e	55,298 e	140,162 e	186,403 e	295,117 e	214,117 e	960,943
From:											
To:		PRIIA	50/0/50			41,499 e					41,499
		Sect. 5337-SGR	80/0/100		76,639 e	97,797 e	98,637 e	97,438 e	104,644 e	107,783 e	582,937
		Sect. 5337-SGR	80/0/20		76,639 e	97,797 e	98,637 e	97,438 e	104,644 e	107,783 e	582,937
Total Funds: 1,585,379											

Description: Provides funds for:
a. Track Rehabilitation: maintain and rehabilitate track and track infrastructure including aerial structures.
b. Station/Tunnel Rehabilitation: repair of water leaks in stations, vent shafts, air ducts, tunnels, tunnel liners, and other areas in the system.
c. Preventative Maintenance for track and structures

TIP ID: 5860		Agency ID:		Title: Passenger Facilities							
Facility:		Local	0/0/100		116,179 e	138,580 e	149,228 e	199,580 e	188,979 e	198,430 e	990,976
From:											
To:		Sect. 5307	80/0/20		47,564 e	49,477 e	34,395 e	54,536 e	48,844 e	45,286 e	280,101
		WIP	0/0/100		21,147 e	35,035 e	26,426 e	25,500 e	12,000 e		120,107
Total Funds: 1,391,184											

Description: Provides funds for
a. Elevator/ Escalator Facilities: rehabilitation of elevator and escalators and expansion of elevator capacity.
b. Maintenance of Rail Station Facilities: upgrade, rehabilitation, and/or replacement of station area components.
c. Bicycle/ Pedestrian Facilities: rehabilitation, replacement and expansion of bicycle and pedestrian facilities.
d. Rail Station Capacity/ Enhancements: expand the capacity of rail stations, improve passenger access, and protect exposed assets.
e. Bus Priority Corridor Improvements: bus stops, runningway enhancements, street operations management and safety strategies to produce more reliable bus.
f. Rail Station Equipment: purchase of equipment to be used in rail stations, including police emergency management equipment and other related.
g. Preventative Maintenance for passenger facilities

TIP ID: 5861		Agency ID:		Title: Maintenance Equipment							
Facility:		Local	0/0/100		1,500 e	2,000 e	2,000 e	2,000 e	2,000 e	2,000 e	11,500
From:											
To:											
Total Funds: 11,500											

Description: Provides funds for
a. Rail Maintenance Equipment: purchase and/or replacement of equipment to maintain the rail system.
b. Bus Repair Equipment: purchase and/or replacement of repair equipment.
c. Business Facilities Equipment: purchase and/or replacement of equipment that supports the business process of the agency.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 5862 Agency ID: Title: Other Support Facilities									
Facility:	Local	0/0/100	5,800 e	14,500 e	14,500 e	104,500 e	39,500 e	4,500 e	183,300
From:									
To:	Total Funds: 183,300								

Description: Provides funds for:

- a. Business Support Facilities: facilities that support business operations functions.
- b. Metro Transit Police Department (MTPD) Support Facilities Rehabilitation: upgrade and rehabilitation of MTPD facilities.
- c. MTPD Support Facilities Expansion: expansion of MTPD to meet new ridership and facility demands, to include the new District 2, police training facility, and special operations division facility.

TIP ID: 5863 Agency ID: Title: Credit Facility										
Facility:	Local	0/0/100	30,785 e	5,499 e	5,450 e	5,750 e	6,205 e	17,000 e	7,500 e	47,404
From:										
To:	Total Funds: 47,404									

Description: Provides funds to maintain a line of credit to meet cash flow needs.

TIP ID: 5866 Agency ID: Title: Rail Yards - Systemwide Maintenance, Expansion, Rehabilitation and Replacement										
Facility:	Local	0/0/100	9,300 e	398 e	32,000 e	15,000 e	5,000 e			61,698
From:										
To:	PRIIA	50/0/50	3,000 e	22,000 e						25,000
									Total Funds: 86,698	

Description: Provides funds for

- a. Maintenance of Rail Yards: maintenance and/or rehabilitation of rail maintenance yards.
- b. Rail Maintenance Facilities: construction and/or replacement of rail maintenance facilities.

TIP ID: 5867 Agency ID: Title: Facilities Maintenance Support – Systemwide Support Equipment, Environmental Compl Projects and Adm Support											
Facility:	Local	0/0/100	17,309 e	30,829 e	74,842 e	127,207 e	193,950 e	208,792 e	652,929		
From:											
To:	PRIIA	50/0/50	26,500 e							26,500	
	Sect. 5337-SGR	80/0/20	52,000 e		19,505 e						71,505
	Sect. 5339(b)	80/0/20	4,500 e							4,500	
									Total Funds: 755,434		

Description: Provides funds for:

- a. Environmental Compliance Projects: facility or equipment upgrades and/or replacements required to comply with environmental regulatory requirements or directives.
- b. Maintenance Bus & Rail Facilities: upgrades, rehabilitation, and/or replacements of systemwide support equipment, financial planning and project administration, to include a new test track, railcar commissioning facility and New Carrollton Yard capacity improvements.

NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD

**NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD
 DRAFT FOR PUBLIC COMMENT FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM
 9/7/2018 CAPITAL COSTS (in \$1,000)**

	Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
TIP ID: 6366	Agency ID:	Title: Enhanced Mobility of Seniors and Individuals with Disabilities							Complete:	
Facility:	Sect. 5310	100/0/0	21,909 e	2,832 e	2,832 e	2,832 e	2,832 e			11,328
From:										
To:	Total Funds: 11,328									

Description: This program is intended to enhance mobility for seniors and persons with disabilities by providing funds for programs to serve the special needs of transit-dependent populations beyond traditional public transportation services and Americans with Disabilities Act (ADA) complementary paratransit services.

These funds are for the urbanized area within the District of Columbia, Maryland and Virginia metropolitan region.

Subrecipient	Program Description	Total Project Cost (\$1,000s)	Federal Share	Location
Capitol Hill Village	Volunteer driver program enhancement continuation, mobility counseling, travel training with peer mentors (mobility management)	\$665	\$532	DC
Jewish Council for the Aging	Volunteer driver resource center continuation with expansion to Northern Virginia and underserved parts of suburban Maryland (mobility management)	\$644	\$515	Suburban Maryland and Northern Virginia
Montgomery County Department of Transportation	Subsidy for existing Call-n-Ride taxi voucher program (operating)	\$1,108	\$554	Montgomery County, MD
The Arc of Northern Virginia	Expansion of Train the Travel Trainer for schools and human service agencies (mobility management)	\$375	\$300	Northern Virginia
Dulles Area Transportation Association	Bilingual Spanish-speaking volunteer and driver recruitment in partnership with existing transportation services (mobility management)	\$188	\$150	Fairfax and Loudoun Counties, VA
Fairfax County Neighborhood & Community Services	Continuation and expansion of mobility management project to include promotion of travel training, information on options and improvement to intake call center (mobility management)	\$488	\$390	Fairfax County, VA
City of Rockville	Bus stop and sidewalk improvements	\$495	\$396	City of Rockville, MD
Boat People SOS	Travel training on fixed-route services and other transportation options and development of a culturally and linguistically appropriate transportation guidebook for the Vietnamese-speaking population (mobility management)	\$81	\$65	Northern Virginia
The Arc of Greater Prince William/INSIGHT, Inc.	Six vehicles (wheelchair accessible minivans and 15-passenger buses) to transport adults with disabilities to employment, training, adult day programming, medical appointments and for community integration	\$346	\$277	Prince William County, City of Manassas, City of Manassas Park, and Fairfax County, VA
Jewish Council for the Aging	Two 19-passenger replacement buses to transport older adults and people with disabilities to adult day programming, shopping, and activity and wellness programming at area senior centers	\$207	\$166	Primarily Montgomery County, MD with trips throughout region
Easter Seals Serving DC\MD\VA	Four replacement wheelchair accessible vehicles to transport older adults and people with disabilities to Easter Seals' programming	\$275	\$220	Montgomery County, MD
Community Support Services	Nine wheelchair-accessible minivans to transport clients with severe intellectual and physical disabilities to day programs, therapeutic programs, community based activities and evening and weekend residential support activities	\$370	\$296	Montgomery County, MD

NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD
DRAFT FOR PUBLIC COMMENT **FY 2019-2024 TRANSPORTATION IMPROVEMENT PROGRAM**
9/7/2018 **CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Source Total
Fairfax County Neighborhood & Community Services		Five 19-passenger buses to provide specialized transportation services for participants of human service agency programming, including seniors centers, adult day programs, health care centers			\$312	\$250			Fairfax County, City of Fairfax and City of Falls Church, VA
ECHO		Four vehicles (three 14-passenger buses and one 15-passenger bus) to provide clients with intellectual disabilities transportation to and from employment and day program sites and community engagement activities			\$262	\$210			Loudoun and Fairfax Counties, VA
The Arc of Prince George's County		Eleven wheelchair accessible minivans to expand existing services to provide small-group outings to people with intellectual disabilities in group home settings			\$394	\$316			Prince George's County, MD
University of Maryland College Park (Capital)		Replacement of five paratransit vehicles with wheelchair-accessible minivans to transport students, faculty and visitors with disabilities to and from the College Park Metro station and on campus			\$219	\$176			University of Maryland, College Park campus
Washington Metropolitan Area Transit Authority (WMATA)		Twenty two MetroAccess replacement vehicles for ADA-required paratransit service. Pending FTA approval of a split agreement, WMATA would receive and administer funding independent of COG. FTA allows a match of 15% for ADA paratransit vehicles.			\$1,485	\$1,262			Regional

APPENDIX B – AMENDMENT AND ADMINISTRATIVE MODIFICATION PROCEDURES

On January 16, 2008, the TPB adopted procedures for processing revisions to its CLRP and TIP. A revision is a change to the CLRP or TIP that occurs between scheduled periodic updates. A minor revision is an administrative modification and a major revision is an amendment. These procedures are in accordance with the US DOT planning regulations at 23 CFR 450. These procedures were amended by the TPB Steering Committee on December 5, 2014.

According to 23 CFR 450.326: TIP Revisions and Relationship to the STIP, the regional TIP projects must be included without change in a federally approved state transportation improvement program (STIP) in order for them to receive federal funding. In this region, the District of Columbia Department of Transportation (DDOT), the Maryland Department of Transportation (MDOT), and the Virginia Department of Transportation (VDOT) each provide the project descriptions and funding information for the development of the regional TIP and CLRP. Each DOT has adopted procedures for revising its STIP. When it becomes necessary for a DOT to revise the project information in the TIP, its procedures must be consistent with the TPB procedures for revising its regional TIP.

The TPB procedures are based upon the procedures adopted by DDOT, MDOT and VDOT. The procedures define what an administrative modification is and what an amendment is.

When it becomes necessary for a DOT to revise the information for a project in the plan or TIP, the agency will review the type of changes to the project and apply the above definitions to determine if it can be processed by the TPB as an administrative modification or an amendment. The DOT will then submit the project changes to the TPB and request that it take the appropriate action to approve either a project administrative modification or a project amendment.

APPENDIX C – GLOSSARY OF FEDERAL RESOURCES

FEDERAL HIGHWAY ADMINISTRATION – TITLE I SOURCES

Accelerated Innovation Deployment Demonstration Program (Demo)

The Accelerated Innovation Deployment (AID) Demonstration program provides incentive funding for activities eligible for assistance in any phase of a highway transportation project between project planning and project delivery including: Planning, financing, operation, structures, materials, pavements, environment, and construction that address the TIDP goals. The FHWA expects approximately \$10 million to be made available for AID Demonstration in each of Fiscal Years 2016 through 2020 from amounts authorized under section 6002 of the FAST Act.

<https://www.gpo.gov/fdsys/pkg/FR-2016-09-01/html/2016-21063.htm>

Congestion Mitigation and Air Quality Improvement Program (CMAQ)

The FAST Act continued the CMAQ program to provide a flexible funding source to State and local governments for transportation projects and programs to help meet the requirements of the Clean Air Act. Funding is available to reduce congestion and improve air quality for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).

<https://www.gpo.gov/fdsys/pkg/FR-2016-09-01/html/2016-21063.htm>

Federal Lands Access Program (FLAP)

The Federal Lands Access Program was established in 23 U.S.C. 204 to improve transportation facilities that provide access to, are adjacent to, or are located within Federal lands. The Access Program supplements state and local resources for public roads, transit systems, and other transportation facilities, with an emphasis on high-use recreation sites and economic generators.

<https://flh.fhwa.dot.gov/programs/flap/>

High Priority Project (HPP)

The High Priority Projects Program (pre-MAP-21 23 U.S.C. 117) provided designated funding for specific projects identified in SAFETEA-LU. A total of 5,091 projects are identified, each with a specified amount of funding over the 5 years of SAFETEA-LU. The program was discontinued by MAP-21.

<https://www.fhwa.dot.gov/programadmin/hpp.cfm>

Highway Bridge Replacement and Rehabilitation Program (HBRRP)

Highway Safety Improvement Program (HSIP)

The Highway Safety Improvement Program is a core Federal-aid program with the purpose to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned roads and roads on tribal land. The HSIP requires a data-driven, strategic approach to improving highway

safety on all public roads with a focus on performance.
<https://safety.fhwa.dot.gov/hsip/>

National Highway Freight Program (NHFP)

The FAST Act establishes a new National Highway Freight Program to improve the efficient movement of freight on the National Highway Freight Network (NHFN) and support several goals, including:

- investing in infrastructure and operational improvements that strengthen economic competitiveness, reduce congestion, reduce the cost of freight transportation, improve reliability, and increase productivity;
- improving the safety, security, efficiency, and resiliency of freight transportation in rural and urban areas;
- improving the state of good repair of the NHFN;
- using innovation and advanced technology to improve NHFN safety, efficiency, and reliability;
- improving the efficiency and productivity of the NHFN;
- improving State flexibility to support multi-State corridor planning and address highway freight connectivity; and
- reducing the environmental impacts of freight movement on the NHFN. [23 U.S.C. 167 (a), (b)]

<https://www.fhwa.dot.gov/fastact/factsheets/nhfpfs.cfm>

National Highway Performance Program

The FAST Act continues the National Highway Performance Program, which was established under MAP-21. The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS.

<https://www.fhwa.dot.gov/fastact/factsheets/nhppfs.cfm>

Regional Surface Transportation Planning

RSTP provides flexible funding to Northern Virginia, and similar regions across the country, that may be used for projects to improve and preserve conditions and performance on federal-aid highways, public bridges and tunnels, bicycle and pedestrian infrastructure, and transit capital projects. In Virginia, these funds are available to Metropolitan Planning Organizations (MPOs) with populations greater than 200,000. While the NVTA is not a federally designated MPO, it fulfills this function for Northern Virginia.
<http://thenovaauthority.org/programming/cmaq-rstp/>

State Planning & Research Program

State Transportation Innovation Council (STIC)

The State Transportation Innovation Council Incentive program provides resources to help STICs foster a culture for innovation and make innovations standard practice in their States. Through the program, funding up to \$100,000 per State per Federal fiscal year is made available to support or offset the costs

of standardizing innovative practices in a State transportation agency or other public sector STIC stakeholder. The program is administered by FHWA's Center for Accelerating Innovation.
<https://www.fhwa.dot.gov/innovation/stic/guidance.cfm>

Surface Transportation Block Program (STBG)

The FAST Act converts the long-standing Surface Transportation Program into the Surface Transportation Block Grant Program acknowledging that this program has the most flexible eligibilities among all Federal-aid highway programs and aligning the program's name with how FHWA has historically administered it. [FAST Act § 1109(a)]. The STBG promotes flexibility in State and local transportation decisions and provides flexible funding to best address State and local transportation needs.

<https://www.fhwa.dot.gov/fastact/factsheets/stbgfs.cfm>

Transportation Alternatives Program (TAP)

The FAST Act eliminates the MAP-21 Transportation Alternatives Program (TAP) and replaces it with a set-aside of Surface Transportation Block Grant (STBG) program funding for transportation alternatives (TA). These set-aside funds include all projects and activities that were previously eligible under TAP, encompassing a variety of smaller-scale transportation projects such as pedestrian and bicycle facilities, recreational trails, safe routes to school projects, community improvements such as historic preservation and vegetation management, and environmental mitigation related to stormwater and habitat connectivity.

<https://www.fhwa.dot.gov/fastact/factsheets/transportationalternativesfs.cfm>

FEDERAL TRANSIT ADMINISTRATION – TITLE III SOURCES

Section 5303, Section 5304 – Metropolitan and State Planning Program

Provides funding and procedural requirements for multimodal transportation planning in metropolitan areas and states that is cooperative, continuous and comprehensive, resulting in long-range plans and short-range programs of transportation investment priorities. The planning programs are jointly administered by FTA and the Federal Highway Administration (FHWA), which provides additional funding.

<https://www.transit.dot.gov/funding/grants/metropolitan-statewide-planning-and-nonmetropolitan-transportation-planning-5303-5304>

Section 5307 - Urbanized Area Formula Program

The Urbanized Area Formula Funding program (49 U.S.C. 5307) makes federal resources available to urbanized areas and to governors for transit capital and operating assistance in urbanized areas and for transportation-related planning.

<https://www.transit.dot.gov/funding/grants/urbanized-area-formula-grants-5307>

Section 5309 - New Starts

Provides grants for new and expanded rail, bus rapid transit, and ferry systems that reflect local priorities to improve transportation options in key corridors.

<https://www.transit.dot.gov/funding/grant-programs/capital-investments/fact-sheet-fixed-guideway-capital-investment-grants-new>

Section 5310 - Elderly & Persons with Disabilities Program

This program (49 U.S.C. 5310) provides formula funding to states for the purpose of assisting private nonprofit groups in meeting the transportation needs of older adults and people with disabilities when the transportation service provided is unavailable, insufficient, or inappropriate to meeting these needs.

<https://www.transit.dot.gov/funding/grants/enhanced-mobility-seniors-individuals-disabilities-section-5310>

Section 5311 – Formula Grants for Rural Areas

The Formula Grants for Rural Areas program provides capital, planning, and operating assistance to states to support public transportation in rural areas with populations of less than 50,000, where many residents often rely on public transit to reach their destinations. The program also provides funding for state and national training and technical assistance through the Rural Transportation Assistance Program.

<https://www.transit.dot.gov/rural-formula-grants-5311>

Section 5337 - State of Good Repair Grant Funds

The State of Good Repair Grants Program (49 U.S.C. 5337) provides capital assistance for maintenance, replacement, and rehabilitation projects of high-intensity fixed guideway and bus systems to help transit agencies maintain assets in a state of good repair. Additionally, SGR grants are eligible for developing and implementing Transit Asset Management plans.

<https://www.transit.dot.gov/funding/grants/state-good-repair-grants-5337>

Section 5339 (a) - Alternatives Analysis Funding

The objective of the Alternatives Analysis program (49 U.S.C. 5339) is to assist in financing the evaluation of all reasonable modal and multimodal alternatives and general alignment options for identified transportation needs in a particular, broadly defined travel corridor.

<https://www.transit.dot.gov/funding/grants/alternatives-analysis-5339>

Section 5333 (b) – Bus and Bus Facilities Discretionary Program

The purpose of the Bus Program is to improve the condition of the nation’s public transportation bus fleets, expand transportation access to employment, educational, and healthcare facilities, and to improve mobility options in rural and urban areas throughout the country.

<https://www.transit.dot.gov/funding/applying/notices-funding/5339b-bus-and-bus-facilities-discretionary-program-bus-program-2016>

Section 5339 (c) - Low or No Emission Vehicle Program

The Low or No Emission Competitive program provides funding to state and local governmental authorities for the purchase or lease of zero-emission and low-emission transit buses as well as acquisition, construction, and leasing of required supporting facilities. Under the FAST Act, \$55 million

per year is available until fiscal year 2020.
<https://www.transit.dot.gov/funding/grants/lowno>

Passenger Rail Investment and Improvement Act of 2008 (PRIIA)

Sec. 106 of this bill provides the authorization for capital and preventative maintenance projects for the Washington Metropolitan Area Transit Authority (WMATA).
<https://www.congress.gov/bill/110th-congress/house-bill/6003/text>

American Recovery and Reinvestment Act – Transportation Investment Generating Economic Revenue (ARRA/TIGER)

OTHER FUNDING SOURCES

AC	Advanced Construction
ACC	Advanced Construction Conversion
DOD – OEA	Department of Defense, Office of Economic
GARVEE	Grant Anticipation Revenue Vehicles (Bonds)
NPS	National Park Service
NRT	National Recreational Trails Program
P3	Private-Public Partnership
PRIV	Private Developer
WIP	WMATA Insurance Proceeds

APPENDIX D – PUBLIC INVOLVEMENT OPPORTUNITIES AND COMMENTS RECEIVED

This appendix will be completed following TPB approval of Visualize 2045 and the FY 2019-2024 TIP on October 17, 2018.

APPENDIX E – APPROVAL RESOLUTIONS AND SELF-CERTIFICATION

This appendix will be completed following TPB approval of Visualize 2045 and the FY 2019-2024 TIP on October 17, 2018.