

FY 2022 - 2025 MARYLAND STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM

Section 1: Executive Summary and Project Information

Section 2: Metropolitan Transportation Improvement Programs



MISSION STATEMENT

“The Maryland Department of Transportation is a customer-driven leader that delivers safe, sustainable, intelligent, and exceptional transportation solutions in order to connect our customers to life’s opportunities.”

Prepared by the Maryland Department of Transportation
and the Metropolitan Planning Organizations
of the Baltimore, Calvert-St. Mary’s, Cumberland, Hagerstown, Salisbury,
Washington and Wilmington Regions

for approval by the Federal Highway Administration and the
Federal Transit Administration

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FY 2022 - 2025 Maryland Statewide Transportation Improvement Program

Section 1: Executive Summary and Project Information

■ 1.0 Introduction

The Fiscal Year 2022 to 2025 Maryland Statewide Transportation Improvement Program (STIP) is a four-year, fiscally constrained, and prioritized set of transportation projects, compiled from statewide, local, and regional plans. The STIP is guided by the 2040 Maryland Transportation Plan (MTP), which establishes a long-term vision for Maryland's transportation network. The STIP contains federally-funded projects plus regionally significant State and local projects. All projects were identified as "high priority" through Maryland's planning process and qualify to receive available transportation funding.

This STIP is prepared by the Maryland Department of Transportation (MDOT) in accordance with 23 CFR § 450.216 and provisions of P.L. 114-94, Fixing America's Surface Transportation Act (*FAST Act*). Maryland's STIP is developed through a collaborative effort between MDOT's five Transportation Business Units (State Highway Administration, Maryland Transit Administration, Maryland Motor Vehicle Administration, Maryland Aviation Administration, Maryland Port Administration), the Maryland Transportation Authority (MdTA), the Washington Metropolitan Area Transit Authority (WMATA), the State's seven Metropolitan Planning Organizations (MPOs), metropolitan and non-metropolitan local officials, and the general public. A key component of the STIP process is the Annual Consultation Process, known as the Fall Tour, which is a process stipulated by Maryland State law requiring the Secretary of Transportation to visit with and present to each of the State's county jurisdictions and City of Baltimore, the annual draft of Maryland's six-year capital investment program known as the Consolidated Transportation Program (CTP). The STIP contains the first four years of highway and transit project information directly from the CTP. The CTP/STIP Fall Tour provides the opportunity for the coordination, cooperation, and consultation between all affected stakeholders, and it effectively fulfills the intent of FAST Act legislation. Please keep in mind that the CTP, and therefore the STIP, provide a snapshot of how MDOT is planning to program funding. Not all available funding is programmed; as project needs change, the program will change to reflect the best and most efficient use of state and federal dollars through the day-to-day budgeting process. These changes will be reflected in more timely amendments and modifications.

Maryland's 2022-2025 STIP contains two parts.

Section 1: Executive Summary and Project Information – This section contains an overview of the STIP development process, demonstrates compliance with Federal and State law, and illustrates the vital role of public outreach and participation. This section also contains the Statewide Maryland Transit Administration projects and non-metropolitan area highway projects.

Section 2: Metropolitan Planning Organization Transportation Improvement Programs (TIPs) - This section presents each of the seven MPOs TIPs without change as required by Fixing America's Surface Transportation Act (FAST Act). Please reference the appropriate TIP for all urban area transit and highway projects.

Please note that Appendix H is a list of projects included in the seven Maryland MPO's TIPs, but for details on those projects please reference the individual TIPs for urban area transit and highway projects. Details on the rural/statewide area transit projects are located in Appendices I. Appendix J contains details for the rural/ statewide area highway projects.

The 2022-2025 STIP, all TIPs, and the 2021-2026 CTP, as well as previous STIP/CTPs, can be found on the web through MDOT's Office of Planning and Capital Programming website: <https://www.mdot.maryland.gov/tso/pages/Index.aspx?PageId=23>

The TIPs can be found on the MPO's websites:

- Baltimore Region Metropolitan Planning Organization
Transportation Improvement Program (TIP) FY 2022-2025
<https://www.baltometro.org/>
- National Capital Region Transportation Planning Board
Transportation Improvement Program (TIP) FY 2021-2024
<https://www.mwcog.org/tpb/>
- Wilmington Area Planning Council
Transportation Improvement Program (TIP) FY 2020-2023
<http://www.wilmapco.org/>
- Calvert-St. Mary's Metropolitan Planning Organization Transportation Improvement
Program (TIP) FY 2021-2024
<http://calvert-stmarysmpo.com/>
- Cumberland Urbanized Area Metropolitan Planning Organization
Transportation Improvement Program (TIP) FY 2022-2025
<https://www.alleganygov.org/277/Cumberland-Area-MPO>
- Hagerstown/Eastern Panhandle Metropolitan Planning Organization
Transportation Improvement Program (TIP) FY 2021-2024
<https://www.hepmpo.net/>
- Salisbury/Wicomico Metropolitan Planning Organization
Transportation Improvement Program (TIP) FY 2021-2024
<http://www.swmpo.org/>

■ 2.0 Overview of Transportation Planning Agencies

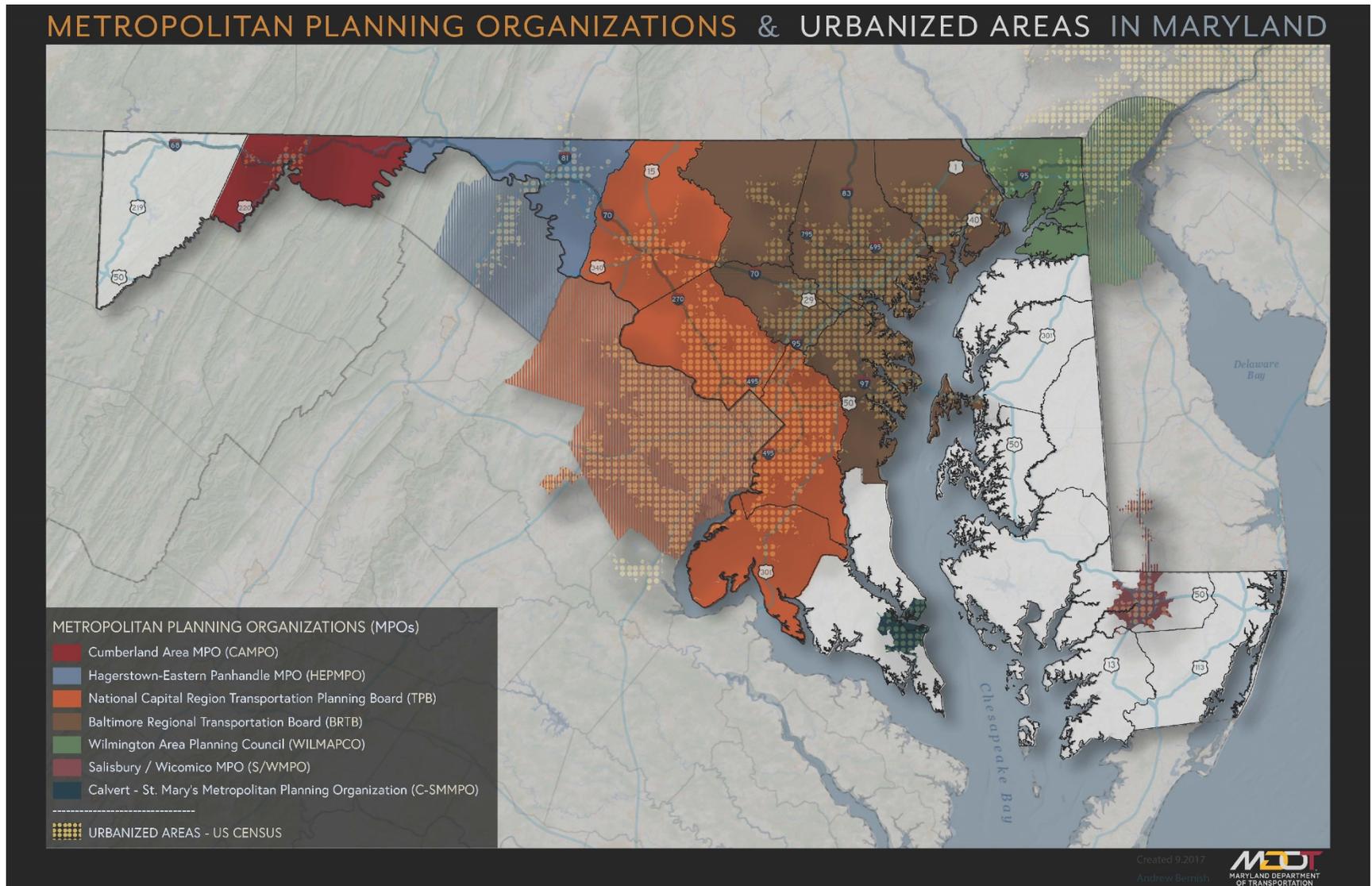
Maryland offers its citizens a range of modal choices, with MDOT retaining responsibility for capital investments as well as operating and planning activities that reach across all modes of transportation. The Transportation Secretary's Office (TSO) establishes transportation policy and oversees five Transportation Business Units: the Maryland Aviation Administration (MAA), the Maryland Port Administration (MPA), the Maryland Transit Administration (MTA), the Motor Vehicle Administration (MVA), and the Maryland State Highway Administration (SHA). To ensure close coordination of State transportation policy, the Secretary of Transportation also serves as Chairman of the Maryland Transportation Authority, an independent State agency responsible for Maryland's eight toll facilities and for financing new revenue producing projects.

Federal highway and transit statutes require, as a condition for spending Federal highway or transit funds in urbanized areas, the designation of MPOs. MPOs are responsible for planning, programming, and coordinating Federal highway and transit investments. The MPO decision-makers include local elected officials, state DOTs, and Federal Highway Administration (FHWA)/Federal Transit Administration (FTA). Maryland's metropolitan areas are divided into the following seven MPOs, with some boundaries extending into neighboring states including Pennsylvania, Delaware, Virginia, West Virginia, and the District of Columbia:

- Baltimore Regional Transportation Board (BRTB);
- Calvert - St. Mary's Metropolitan Planning Organization (C-SMMPO);
- Cumberland Metropolitan Planning Organization (CAMPO);
- Hagerstown-Eastern Panhandle Metropolitan Planning Organization (HEPMPO);
- National Capital Region Transportation Planning Board (TPB);
- Salisbury/Wicomico Area Metropolitan Planning Organization (S/WMPO); and
- Wilmington Metropolitan Planning and Coordinating Council (WILMAPCO).

Figure 2.1 illustrates the jurisdictions of Maryland's MPOs.

Figure 2.1 Maryland's Metropolitan Boundaries



■ 3.0 Key Transportation Planning Documents

State Report on Transportation

Every year, as part of the Statewide multimodal transportation planning process, MDOT prepares and distributes the State Report on Transportation (SRT) to the Maryland General Assembly, local elected officials, and interested citizens. The SRT consists of three components: the *2040 Maryland Transportation Plan*, the *Consolidated Transportation Program*, and the *Annual Attainment Report on Transportation System Performance*. All of these reports can be found at this website: <https://www.mdot.maryland.gov/tso/pages/Index.aspx?PageId=27>.

The *2040 Maryland Transportation Plan (MTP)*, approved in January 2019, establishes MDOT's 20-year vision for a world class, multimodal transportation system and helps to guide Statewide improvements across all means of transportation, including highways, roads, tunnels, bridges, rail, buses, water ports, airports, bike paths, and sidewalks. The MTP provides policy direction through Statewide multimodal goals and objectives. The MTP is the basis for developing strategic transportation plans, programs, policies, and projects across the State. As prescribed by both state and federal law, MDOT updates the Statewide transportation plan every four to five years to address current and future transportation challenges, needs, and conditions.

MDOT's Vision and Mission:

Provide a well-maintained, sustainable, and multimodal transportation system that facilitates the safe, convenient, affordable, and efficient movement of people, goods, and services within and between population and business centers.

A description of the seven goals is included below:

- **Ensure a Safe, Secure, and Resilient Transportation System-** Enhance the safety and security of Maryland's multimodal transportation system and provide a transportation system that is resilient to natural or man-made hazards.
- **Facilitate Economic Opportunity and Reduce Congestion in Maryland through Strategic System Expansion -** Invest in and pursue opportunities to promote system improvements that

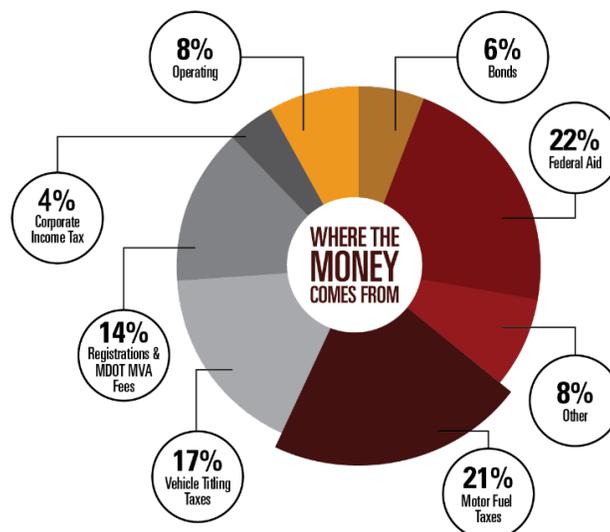


support economic development, reduce congestion, and improve the movement of people and goods.

- **Maintain a High Standard and Modernize Maryland’s Multimodal Transportation System** - Preserve, maintain, and modernize the State’s existing transportation infrastructure and assets.
- **Improve the Quality and Efficiency of the Transportation System to Enhance the Customer Experience** - Increase the use of technologies and operational improvements to enhance transportation services and communication to satisfy our customers.
- **Ensure Environmental Protection and Sensitivity** - Deliver sustainable transportation infrastructure improvements that protect and reduce impacts to Maryland’s natural, historic, and cultural resources.
- **Promote Fiscal Responsibility** - Ensure responsible investment and management of taxpayer resources to add value and deliver quality transportation improvements through performance-based decision-making and innovative funding mechanisms and partnerships.
- **Provide Better Transportation Choices and Connections** - Improve transportation connections to support alternative transportation options for the movement of people and goods.

The MTP guides the development of the second component of the SRT, the *Consolidated Transportation Program* (CTP), Maryland’s six-year constrained capital program. The CTP contains all capital projects funded with the Maryland Transportation Trust Fund (TTF). Figure 3.1 illustrates the TTF funding sources (also found on page 11 of the CTP). Projects from all Transportation Business Units and MdTA are listed in the CTP. For major projects, the CTP contains a detailed description and an illustrative Project Information Form (PIF). The primary differences between the CTP and the STIP is that the STIP is only the four of the 6 years, it includes details on Federal Funds being used on projects, and primarily focusses on Federal Highway and Federal Transit funding. For the urban areas of the state, once the CTP is approved by the legislature, all of the information in the CTP is directly input into the Metropolitan TIPs for the Transit and Highway programs.

Figure 3.1 Transportation Trust Fund Sources, 2021 – 2026



In 2010, the Maryland General Assembly passed a bill intended to enhance transparency and accountability in the evaluation and selection of proposed major capital projects for the CTP/STIP. The resulting Maryland State law, Chapter 725, requires MDOT and other proposing entities clarify the relationship between their prioritized projects and the overarching state goals for transportation as articulated in the MTP. In addition, full consideration of related goals and policies must be considered in the selection criteria.

In 2016, the Maryland General Assembly passed a bill that mandates MDOT “shall, in accordance with federal transportation requirements, develop a project–based scoring system for major transportation projects using the goals and measures established under [Transportation Article 2-103.7(c)]” being considered for inclusion in the CTP. The transportation scoring law, as amended in 2017, defines a “major transportation project” as a highway or transit capacity project that exceeds \$5,000,000, and excludes any “projects that are solely for system preservation.”

Using the nine goals and twenty-three measures established by this statute, the Chapter 30 scoring model seeks to evaluate projects across Maryland by utilizing project data, modeling analysis, and qualitative questionnaires to formulate a scoring matrix. A project application process has been established for counties and municipalities to request the inclusion of major transportation projects to ensure the necessary project information is provided to conduct the scoring. Each major transportation capacity project scored is then ranked. The project rank is one of many factors that contribute to the selection process for funding and inclusion in the CTP.

The final component of the SRT is the *Annual Attainment Report on Transportation System Performance (AR)*. During the 2000 General Assembly session, the Legislature passed a law requiring MDOT to submit the AR to accompany the MTP and CTP. The purpose of the AR is to demonstrate progress towards achieving the goals and objectives of the MTP and the delivery of the CTP. The AR tracks performance measures for each Transportation Business Unit and MdTA and sets both long- and short-term performance targets. The AR also addresses the impact of induced travel and transportation demand management (TDM) programs. The performance measures presented in the AR are intended to help MDOT and Maryland’s citizens better understand and assess the relationship between investments in transportation programs and projects with the services and quality they provide. The AR tracks MDOT’s progress each year towards attaining the goals and objectives of the MTP based on outcome-oriented performance measures.

Highway Needs Inventory

Mandated by Annotated Code of Maryland §8-610, the Highway Needs Inventory (HNI) is an MDOT SHA planning reference document that identifies transportation needs to serve existing and projected populations and economic activity in Maryland as well as safety and

structural concerns that warrant major construction or reconstruction. Triennially, MDOT SHA Regional and Intermodal Planning, in coordination with local jurisdictions, MDOT SHA districts, MDOT SHA Data Services, MDOT SHA Project Management, the MDOT SHA Office of Traffic and Safety, and the MDOT SHA Office of Real Estate, identifies transportation needs to include in the HNI. The needs identified in the HNI represent only an acknowledgment of need based on technical analysis and adopted local and regional transportation plans.

The HNI is neither financially constrained nor is it based on revenue forecasts. The HNI is not a construction program and inclusion of a need does not represent a commitment to implement improvements. The HNI is a source document for MDOT SHA's portion of the CTP and is available at www.roads.maryland.gov/mdotsha/pages/Index.aspx?PageId=509.

Metropolitan Planning Organization Transportation Plans and Programs

Maryland's seven MPOs are charged with developing a 20-year Long-Range Transportation Plan (LRTP) and a short-term four to six-year program called the Transportation Improvement Program (TIP). LRTPs help MPOs review how their region is changing and growing in order to determine future transportation needs and act as a tool to channel transportation investments where they can be most effective to meet the region's transportation needs. TIPs allow MPOs to review and approve all plans and programs of regional significance that involve federal funds. TIPs generally reflect local needs, priorities, and available funding in coordination with local transit providers, land use, and other local government officials, citizens, and other stakeholders. For example, the TIP must also show year of expenditure and what types of funding will be used, and each project must be described in detail, including project cost.

LRTPs and TIPs cannot lead to further degradation of the region's air quality. To ensure that air quality standards are met and maintained, the United States Environmental Protection Agency (US EPA) has outlined regulations that require MPOs and state DOTs to provide state air agencies, local air quality agencies, and transportation agencies the opportunity for consultation regarding the development of the state implementation plan (SIP), the TIP, and associated conformity determinations.¹ MDOT maintains proactive relationships between the agencies responsible for conformity ensuring a successful conformity process.

Each MPO has an approved, documented, and required public involvement process that is used in support of developing their respective LRTPs and TIPs. MDOT has also developed a public involvement plan which serves to guide public involvement outside the National Environmental Policy Act process. The public participation process for this Statewide Transportation Improvement Program and all the Transportation Improvement Programs referenced by this document will also meet the Federal Transit Administration public participation requirements for the Maryland Transit Administration's Program of Projects.

Statewide Transportation Improvement Program

In order to receive federal funds, federal legislation mandates that states adopt a specific process for selecting projects for implementation known as the STIP. The Maryland STIP

¹ http://www.fhwa.dot.gov/environment/air_quality/conformity/

is a four-year, fiscally constrained, and prioritized set of transportation projects that is compiled from local and regional plans. STIP projects are selected through an annual development process. The Maryland STIP is financially constrained by the revenues reasonably expected to be available through the STIP's funding period using year of expenditure dollars. In Maryland, all years of the STIP list projects and appropriate project groupings with specific funds identified for each fiscal year. Projects (or phases of projects) are listed only if full funding is available for the project (or appropriate project phase) within the time period established for its completion. The STIP is comprised of these parts: the Executive Summary and Project List, and the seven Maryland TIPs. MTA and SHA project information is identified directly from the CTP and then formatted and translated for STIP and TIP clarification. Please keep in mind that the CTP, and therefore the STIP, provide a snapshot of how MDOT is planning to program funding. Not all available funding is programmed; as project needs change, the program will change to reflect the best and most efficient use of state and federal dollars through the day to day budgeting process. These changes will be reflected in more timely amendments and modifications.

■ 4.0 Maryland's STIP Development

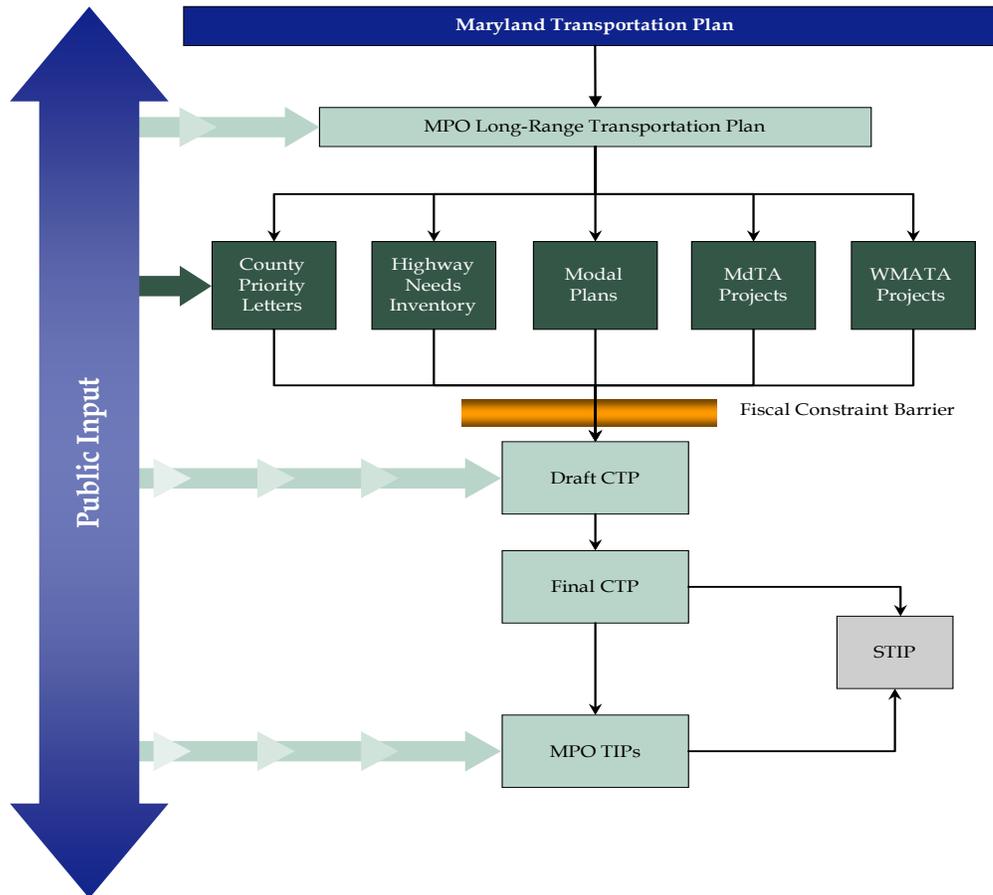
Process Overview

The STIP development process begins with the MTP and MPO LRTPs (see Figure 4.1). These long-range plans are the foundation for transportation planning in Maryland. The STIP components are identified through a cooperative process between MDOT, the Transportation Business Units, SHA District Engineers, and county staff. MPOs conduct regular meetings to coordinate transportation planning efforts. The Highway Needs Inventory and Priority Letters contain specific project lists. The Annotated Code of Maryland Title 8, section 612(c) states:

“the local governing body and a majority of the local legislative delegation shall establish a list of priorities from among those secondary system projects listed in the needs inventory and the Administration shall engage in initial project planning upon the request of the local governing body and a majority of the local legislative delegation in the order established in the list of priorities.”

In other words, the Priority Letter represents each county's own internal ranking of projects deemed most important based on local need and local input. This is an effective way for counties to convey to MDOT the need for specific transportation projects and investments. Priority Letters involve requests for a wide variety of project funding – from transit improvements, highway reconstruction, and sidewalk construction to bridge improvements, bike path development, and highway safety projects. In some cases, counties reserve portions of their own funds in order to accelerate project implementation, conduct feasibility and planning studies, ensure that projects are kept on-track, and provide a funding match as required for certain types of projects. The modal share (highway, transit, etc.) of the projects listed in Priority Letters ranges from county to county. In more heavily populated and densely developed counties, there is a stronger focus on public transportation and improving access to public transportation from roadway networks. Counties with smaller populations and lower densities tend to focus on highway and arterial improvements, although most counties request some element of transit funding.

Figure 4.1 STIP Development Process



Priority letters are typically received in the spring-summer as the draft CTP is developed. All recent priority letters can be found on the MDOT website: <https://www.mdot.maryland.gov/tso/pages/Index.aspx?PageId=82>. MDOT conducts several meetings with county staff, MPOs, and SHA district engineers to discuss the priorities listed. At the end of the summer, MDOT meets with local officials at the Maryland Association of Counties conference to continue discussions about priority projects.

Once the official draft CTP is complete, MDOT conducts the Annual Consultation Process, also known as the Fall Tour where the Secretary of Transportation and the Transportation Business Units' Administrators visit each of the State's 23 counties and Baltimore City to present and solicit input on the draft CTP. In preparation for the Tour, MDOT conducts staff level meetings with each of the Counties and Baltimore City, called the Pre-Tour to solicit staff input prior to the actual Tour. At the Tour itself, local elected officials, State legislators, and citizens are generally present at these meetings. Table 4.2 lists the 2021 CTP Fall Tour schedule. After the Fall Tour, MDOT reviews any comments and concerns and uses this input, along with updated revenue forecasts, to develop the final CTP. Once the final CTP is approved by the legislature all projects are updated into the seven MPO TIPs and the STIP.

Table 4.2 2021-2026 CTP - 2020 Fall Tour Annual Consultation Meetings

Date	County	Time	Location
September 19, 2020	Balt. County	10:00 a.m.	Virtual
September 26, 2020	Carroll	1:30 p.m.	Virtual
September 26, 2020	Howard	5:00 p.m.	Virtual
September 27, 2020	Harford	10:00 a.m.	Virtual
September 27, 2020	Balt. City	2:00 p.m.	Virtual
October 1, 2020	Queen Anne's	3:00 p.m.	Virtual
October 1, 2020	Kent	7:00 p.m.	Virtual
October 3, 2020	Washington	10:00 a.m.	Virtual
October 3, 2020	Allegany	3:00 p.m.	Virtual
October 4, 2020	Garrett	10:00 a.m.	Virtual
October 10, 2020	Wicomico	7:00 p.m.	Virtual
October 11, 2020	Cecil	10:00 a.m.	Virtual
October 15, 2020	Caroline	10:30 a.m.	Virtual
October 15, 2020	Talbot	3:00 p.m.	Virtual
October 15, 2020	Dorchester	7:00 p.m.	Virtual
October 22, 2020	St. Mary's County	10:30 a.m.	Virtual
October 29, 2020	Calvert	10:30 a.m.	Virtual
October 29, 2020	Charles	3:00 p.m.	Virtual
October 30, 2020	Frederick	7:00 p.m.	Virtual
November 1, 2020	Prince George's	10:00 a.m.	Virtual
November 4, 2020	Anne Arundel	3:00 p.m.	Virtual
November 4, 2020	Montgomery	7:00 p.m.	Virtual
November 5, 2020	Worcester	10:00 a.m.	Virtual
November 5, 2020	Somerset	2:00 p.m.	Virtual

MDOT also engages in a range of consultative activities with representatives of local agencies and elected officials from Maryland's non-metropolitan areas. In fact, a number of organizations and groups representing Maryland's rural counties and transportation interests regularly present before the General Assembly and Secretary of Transportation to communicate their needs and lobby for specific projects and funding initiatives, such as the Transportation Association of Maryland – a Statewide advocate of public, private, and non-profit transit agencies. Other activities include SHA District Offices, where continuous relationships with local agencies and officials help to identify highway, transit, and other transportation capital needs for inclusion in the STIP and CTP. MDOT also attends Maryland Municipal League meetings and the Maryland Association of Counties meetings as another way to foster transportation planning coordination. The Maryland Non-Metropolitan Consultation Process can be found here: https://www.mdot.maryland.gov/OPCP/MDOT_2021_Non-Metropolitan_Area_Consultative_Process_WEB.pdf

Once the final CTP has been developed after public input, it is submitted to the General Assembly for its approval. The final CTP is used in creating the MPO TIPs, which has all the same information. Once the final CTP and each TIP have been approved, they are brought together into the current STIP. The CTP is developed every year; however, the TIPs and the STIP are not necessarily updated every year.

To further make the transportation planning process accessible to the public, MDOT makes the Maryland Transportation Plan, the CTP, and the STIP available online for the public's information and use at <http://www.mdot.maryland.gov>. All MPOs also post their TIP online with other appropriate reports, studies, surveys, press releases, and pamphlets.

The public participation process for this Statewide Transportation Improvement Program and all of the Transportation Improvement Programs referenced by this document will also meet the Federal Transit Administration public participation requirements for the Maryland Transit Administration's Program of Projects.

MDOT Planning Factors and Coordination

In 23 CFR § 450.206 (a), federal guidelines require that each state carry out a continual, cooperative, and comprehensive statewide transportation planning process that provides for the consideration and implementation of projects, strategies, and services. Some examples of how MDOT has implemented these guidelines are detailed below.

System Preservation

Keeping Maryland's transportation system safe and in good condition is a top priority for MDOT. For example, roads must be re-paved, safety improvements implemented, aging bridges rehabilitated, and buses and trains repaired and replaced. In the face of growing travel demand, increasing construction and equipment costs, limited resources, and ever-present needs for system expansion, MDOT must make the most efficient use of its existing system. To ensure the most productive use of the State's transportation system, asset maintenance and preservation are prioritized to extend the useful life of existing facilities and equipment in a fiscally responsible manner. MDOT seeks to maximize the value and performance of current resources in order to capture all of the benefits from the existing system before making new investments. Currently, system preservation accounts for 22.6% of MDOT's capital expenditures in FY 2022 and 31.7% in FY 2023.

Safety and Security

Ensuring the safety and security of Maryland residents and others who travel through the State's airports, seaports and on buses, highways, and trains is vitally important. MDOT is committed to providing safe travel to all its customers and to protecting the safety of MDOT's workforce and contractors. Safety considerations are integral to all MDOT design and operational activities. In addition, threats to the security of travelers and to transportation assets have received heightened attention, and MDOT is committed to taking advantage of new technologies and cost-effective counter-measures to reduce transportation system vulnerabilities. Each Transportation Business Unit institutes both safety and security measures, with MDOT continuing to support these actions and strategies across the State transportation system.

The Maryland Strategic Highway Safety Plan (SHSP) is a statewide, coordinated, and strategic, traffic safety plan that provides the framework for reducing highway fatalities and serious injuries on all public streets and highways in Maryland. It establishes overall goals and objectives as well as strategies within key emphasis areas. The SHSP has most recently been updated to cover years 2021-2025. The SHSP has incorporated the AASHTO/FHWA supported "Toward Zero Deaths" philosophy as its underlying

principle. The Maryland Highway Safety Office is in complete concurrence with the “Toward Zero Deaths” initiative. This principle sets goals of reducing motor vehicle-related fatalities and injuries by one-half by 2030, with an eventual goal to approach zero traffic deaths. The SHSP interim annual targets through the life of this particular SHSP are based on this methodology, but they have been revised since the 2011-2015 SHSP to take into account guidelines in Moving Ahead for Progress in the 21st Century Act (MAP-21).

The SHSP provides the data-driven framework for Maryland to apply the best solutions to solving its most critical highway safety problems. The continued active involvement of various stakeholders, along with the unwavering focus on the measurable objectives set forth in the SHSP, ensures broad support throughout the five-year life of the plan, promises effective implementation of the plan, and supplies guidance to reach the ultimate goal of saving lives. The Maryland SHSP can be found here: https://zerodeathsmd.gov/wp-content/uploads/2021/01/2021_2025_MD_SHSP_FINAL.pdf.

Environmental Planning Factors

Several changes occurred in recent years that served to revolutionize the management of environmental factors in constructing and maintaining our transportation system. Maryland law now requires that stormwater be managed through Environmental Site Design (ESD) to the maximum extent practicable. This has caused transportation agencies to move away from large-scale practices such as ponds, and to instead incorporate numerous smaller, less engineered practices, such as sand filters and grassed swales, into the design of projects.

In December 2010, the US EPA established a Total Maximum Daily Load (TMDL) of nutrients and sediment that may be discharged to the Chesapeake Bay and its tidal tributaries. Under the TMDL, Maryland and its local governments have developed Watershed Implementation Plans (WIPs) that will guide our efforts to substantially reduce pollutants discharged from our facilities. As part of that effort, SHA developed a suite of best management practices to reduce the impacts of the system including:

- Pavement reduction
- Large scale tree planting in SHA rights-of-way
- Partnering with local governments to identify watershed-based wetland and stream restoration opportunities
- Enhancing existing and planned wetland and stream restoration efforts by integrating riparian buffer and tree plantings into site designs

In support of State goals for Green House Gas (GHG) reduction and reduction of other emissions, MDOT has coordinated its transportation policies and programs to reduce dependence on automobiles by incorporating travel alternatives such as telework, pedestrian, bicycle, and transit options, as appropriate, into the design of projects. To encourage the use of clean vehicles, MDOT has installed electric vehicle charging equipment at a number of MDOT facilities, including fourteen transit stations.

In addition to GHG reduction, MDOT is also planning for the resilience of the system as we respond to the growing impacts of climate change through vulnerability assessments and the incorporation of climate and sea level considerations into our planning processes and construction practices.

Coordinated Public Transit - Human Services Transportation Plan

On December 4, 2015, President Obama signed into law Fixing America's Surface Transportation Act or "*FAST Act*" that maintained the changes implemented in The Moving Ahead for Progress in the 21st Century Act (MAP-21). The program changes in MAP-21 legislation included the repeal of the Section 5316 and 5317 Programs and the establishment of an enhanced Section 5310 Program that serves as a single formula program to support mobility of seniors and individuals with disabilities.

Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), MAP-21's predecessor, required that projects funded through FTA's Section 5310 (Elderly Individuals and Individuals with Disabilities), Section 5316 (Job Access and Reverse Commute – JARC), and Section 5317 (New Freedom) Programs "must be derived from a locally developed, coordinated public transit-human services transportation plan." Under MAP-21 and FAST Act, this process continues to be a requirement for projects funded through FTA's Section 5310 (Enhanced Mobility of Seniors and Individuals with Disabilities). This provision is aimed at improving transportation services for persons with disabilities, older adults, and individuals with lower incomes and ensuring that communities are coordinating transportation resources provided through multiple federal programs.

The Maryland Transit Administration (MTA) led the development of the initial statewide plan and five regional Coordinated Transportation Plans in October 2007. These plans were updated in 2010, 2015, and again in 2019. All plans were adopted by appropriate local bodies. These planning efforts not only pertain to Section 5310, but they also include the wide spectrum of services offered by Maryland's locally operated transit systems and local human service providers. The Coordinated Transportation Plans assessed the transportation needs of older adults, people with disabilities, and low-income workers, developed strategies for addressing identified gaps and approving efficiencies of services, and prioritized specific strategies for implementation. In addition, these plans identified potential organizations or structures to implement coordinated activities and potential new coordinated services.

■ 5.0 Linking Maryland's STIP to MAP-21 and FAST Act

This section contains additional information about the development and content of Maryland's STIP to demonstrate compliance with federal requirements. The following information is organized according to 23 CFR § 450.216 subsections (a) – (m). MAP-21 made a number of reforms to the metropolitan and statewide transportation planning processes, including incorporating performance goals, measures, and targets into the process of identifying needed transportation improvements and project selection. The FAST Act includes provisions to support and enhance these reforms.

(a) Federal STIP Update Guidelines: MDOT intends to update its STIP every two years. The federal regulations only require an update every four years; therefore, MDOT's biennial update is well within this timeframe.

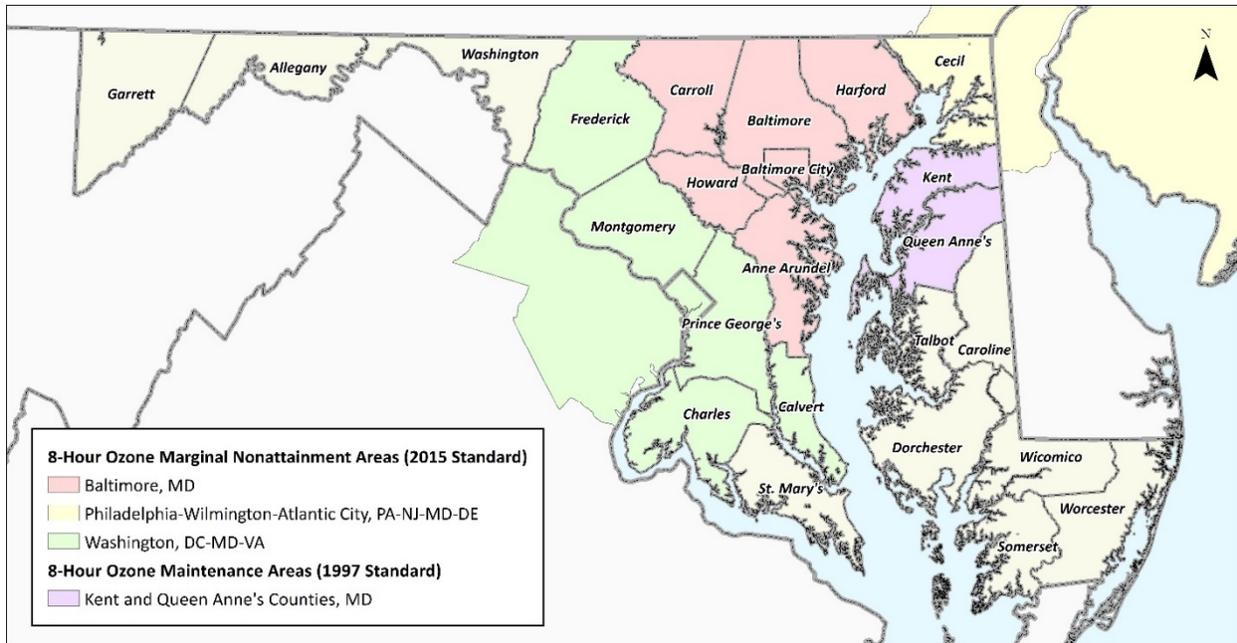
(b) MPO Coordination and Air Quality Attainment: There are seven metropolitan planning organizations (MPO) across the State that perform a range of activities that promote an integrated approach to regional transportation planning. The federally mandated transportation planning process requires MPOs to produce a financially constrained long-range multimodal transportation plan (LRTP) and transportation improvement program (TIP) that lists actual funding commitments for projects. MPOs must follow their approved Public Involvement and Title VI Plans to solicit public concerns and ensure the transportation plans do not disproportionately affect low-income or minority communities in an adverse way. The MPO Board, consisting of local elected officials, transit agencies, and state and local transportation representatives, is the approving authority for the MPO. Once the plans and programs are approved, they are added to the STIP.

In addition, the MPOs must ensure that the projects included in the LRTP and TIP collectively contribute to air quality improvement goals for the region. This requirement is the federally regulated transportation conformity process that requires nonattainment and maintenance areas to demonstrate that all future transportation projects will not hinder the area from reaching and maintaining its attainment goals and will not:

- *Cause or contribute to new air quality violations,*
- *Worsen existing violations or*
- *Delay timely attainment of the relevant NAAQS.*

Regional transportation conformity is required for areas designated nonattainment and maintenance of the National Ambient Air Quality Standards (NAAQS). To demonstrate conformity, the regional emissions associated with the LRTP and TIP must be less than or equal to the motor vehicle emissions budgets (MVEB) established in a State Implementation Plan (SIP).

In Maryland, transportation conformity is applicable in the ozone nonattainment and maintenance areas, illustrated in the figure below.



Ozone

The current ozone NAAQS is the 0.070 ppm 8-hour standard established in 2015 with nonattainment designations effective August 3, 2018. The US EPA designated three areas in Maryland as “marginal” nonattainment. These areas are subject to transportation conformity and include: Metropolitan Washington, DC, (DC-MD-VA) region, Baltimore, MD region and Cecil County as part of the Philadelphia-Wilmington-Atlantic City (PA-NJ-MD-DE) region. The marginal classification requires the areas to demonstrate attainment by 2021.

Kent and Queen Anne’s Counties are “maintenance” areas for the 1997 ozone standard. For transportation conformity, they are considered an isolated rural area and require conformity only for new, regionally significant projects. All other counties in Maryland are in attainment for ozone.

$PM_{2.5}$

The US EPA published a revocation of 1997 $PM_{2.5}$ Standard on August 24, 2016, resulting in three areas in Maryland, previously designated as maintenance areas, no longer being required to demonstrate transportation conformity for any fine particulate matter standard. These areas include the Washington, DC and Baltimore regions, as well as the Hagerstown-Martinsburg, WV region. All counties in Maryland are in attainment of the 2006 and 2012 $PM_{2.5}$ NAAQS.

Greenhouse Gases (GHG)

Greenhouse gas (GHG) emissions are not included in the sections of the Clean Air Act (CAA) governing the transportation planning and conformity processes. The State’s commitments to reduce GHG emissions to combat the effects of climate change are guided by State legislation. The State’s Greenhouse Gases Reduction Act (GGRA) was

reauthorized in 2016 and established the greenhouse gas (GHG) reduction goal of 40 percent from 2006 levels by 2030 (“40 by 30”). Maryland’s 2030 GGRA Plan, completed in 2021, addresses the suite of actions necessary to meet the 40 by 30 GHG reduction goal. Through the MDOT GGRA Plan (which is a component of the Maryland 2030 GGRA Plan), MDOT has aligned its mission and transportation planning efforts to mitigate GHG emissions while investing in a transportation system that is resilient to climate impacts. Meeting the transportation sector emissions reduction challenges and opportunities requires innovative infrastructure design, investment in travel choice and travel efficiency, and adoption of fuel and vehicle technologies that consume less fossil fuel.

MDOT has implemented a variety of transportation emissions reduction strategies, adopting policy and program changes, that collectively improve air quality, reduce congestion and reduce emissions. Through its leadership of the Zero Emission Electric Vehicle Infrastructure Council (ZEEVIC), MDOT plays a leading role in the deployment of Electric Vehicle (EV) infrastructure, supporting growth in zero-emission vehicles (ZEVs) in Maryland. Reducing congestion is a critical component of mitigating GHG emissions and MDOT continues to expand transit services, improve travel demand management programs, and is implementing the Maryland Traffic Relief Plan. MDOT has also developed Maryland’s Connected and Autonomous Vehicle (CAV) Strategic Vision and MDOT’s CAV Strategic Plan and is deploying integrated corridor management advances to manage congestion.

In addition to mitigating GHG emissions, MDOT is developing vulnerability assessments and resiliency plans to address the current and future impacts of climate change and potential sea rise on the transportation network. MDOT leads by example in utilizing renewable energy sources, by allowing contractors opportunities to install, operate, and maintain solar systems on MDOT properties through a Master Solar Agreement (MSA) instituted in 2021.

(c) Non-Metropolitan Area Coordination: Development of the STIP is not complete until the needs and priorities of non-metropolitan areas are included. MDOT has developed the “Non-metropolitan Area Consultative Process” in order to comply with federal transportation planning requirements. This policy provides a process for non-metropolitan areas and non-metropolitan elected officials to be involved in Statewide transportation planning that spans across all modes. Section 4.0 also described the annual CTP/STIP Fall Tour, a key component of Maryland’s outreach to non-metropolitan areas and other coordination efforts with non-metropolitan areas pursued by MDOT.

(d) Indian Tribal Government Coordination: There are no federal Indian Tribal governments in the State of Maryland.

(e) Federal Lands Highway Program (FLHP) TIP: The STIP includes all FLHP projects that have been approved by FHWA without modification (see Appendix D).

(f) Public Comment and Title VI: The STIP is developed within an inclusive, accessible, and responsive public involvement process. As mentioned under “(b) MPO Coordination and Air Quality Attainment,” each TIP is subject to its own public comment process and review period. Several public outreach attributes of the STIP development process (e.g., CTP Fall Tour) were described in Section 4.0.

MDOT recognizes that an early and continuous public participation process is the key to keeping the public fully informed and involved in making decisions that affect Maryland's transportation systems. MDOT strives to be as inclusive as possible and employs a range of public outreach strategies that vary based on the relevant outreach needs. MDOT takes an inclusive attitude to engaging the public targeting all populations not solely Title VI and Limited English Proficiency populations. These strategies have included press releases, mass mailings, interviews, facilitated meetings, an interactive website, newsletters, social media, and online surveys.

MDOT's public participation process begins during the development of MDOT's Statewide Transportation Plan, called the Maryland Transportation Plan (MTP), continues through the creation of Maryland's Statewide Transportation Improvement Program (STIP) and six-year Consolidated Transportation Program (CTP), and then finishes with the project development phase for implementation of specific transportation system improvements. The MDOT Annual Consultation Meetings Tour (Tour) is the major outreach activity of MDOT for the development of the MTP, STIP and CTP.

As part of the MDOT Tour, the Secretary and business unit leaders meet with the public and discuss ways to improve transportation in the State. Annually, there are at least twenty-four public MDOT Tour meetings held across the State. These meetings are hosted by local jurisdictions and held at different local venues, including county buildings, community centers or organizations, local boards of education, and public libraries that are transit assessable locations with variable starting times to accommodate different work schedules.

In the past, MDOT's public outreach included providing notice of the MDOT Tour meetings through the use of press releases, mass mailings, social media, and MDOT website postings. To encourage participation by minority and Limited English Proficiency populations throughout Maryland, MDOT will place advertisements in local newspapers, including major and non-English language media, prior to public meetings to inform the public of these activities. MDOT will also use, when appropriate, non-English language newspapers within the local jurisdictions for public outreach that is being conducted by MDOT. MDOT will continue to issue press releases, send mass mailings, use surveys, and post on the MDOT social media pages and the MDOT website. MDOT will continue to work with the local jurisdictions to ensure that public meetings continue to be held at transit assessable locations with variable starting times to accommodate different work schedules. MDOT will also continue to work with the local jurisdictions to engage minority and Limited English Proficiency populations.

(g) Capital and Non-Capital Project for Specific Federal Funds: The STIP includes all projects using federal funds for capital and non-capital projects. An example would be the list of bicycle and pedestrian projects programmed that can be found in Appendix M. In addition, MDOT tracks a set of bicycle and pedestrian performance measures identified in the Maryland Bicycle and Pedestrian Master Plan and will continue to document progress in the AR.

(h) Regionally Significant Projects: The 2022 STIP includes all MDOT projects, including those projects of regional significance. For conformity purposes, all MPO TIPs contain all projects of regional significance as well, regardless of funding source.

(i) Project / Phase Summary Reports: For each major project to be included in the CTP, MDOT either creates a summary Project Information Form (PIF), which is a summary of information for each project or submit the projects through the MPO TIP process. Important data is included on the PIF and the TIP project sheets, such as a map illustrating the location and size of a project, an image illustrating the type of project, project justification, other non-Federal funding sources, and Smart Growth Status. Chapter 725 also requires that for projects in the Construction Program, the appropriate State Goals from the State Transportation Plan (MTP) be identified. Each MPO TIP explains how to read the TIP project sheets. The Rural/Statewide Federal-aid Phase descriptions can be found in Appendix F.

(j) Grouped Projects: In the STIP, 23 CFR 450.326(h) permits MDOT to group projects “that are not considered to be of appropriate scale for individual identification.” These projects, typically referred to as “minor” or “system preservation” appear in MDOT’s various system preservation programs, are smaller in scope and cost, and can include both smaller new construction, including safety improvements, and ongoing maintenance activities such as roadway resurfacing. These system preservation program projects in metropolitan areas are grouped based on MDOT SHA funding categories (see appendix J). “Major” and/or regionally significant projects are not grouped together, and each has its own project information form (PIF) page in the STIP. In select instances, individual system preservation projects may be determined to be regionally significant, and each also will have its own PIF page in the STIP.

(k) Consistency with State Long-Range Transportation Plan and MPO Long-Range Transportation Plans: The multimodal goals and objectives in the *2040 Maryland Transportation Plan (MTP)* provided policy guidance for the 2022 STIP development. The MTP in turn provides overall policy direction for Maryland’s seven MPO LRTPs which in turn provide overall policy direction for development of the TIPs.

(l) Financial Plan: The financial documentation can be found in Appendix B&C and in the CTP Summary on pages 11-15. This information was presented and distributed to the public during the Fall Tour. The section titled “Where the Money Comes From” (page 14 of the CTP) details the various inputs to the TTF, which is Maryland’s dedicated transportation revenue source. As Figure 3.1 illustrates, the TTF is supported by federal aid, operating revenues, user fees, motor fuel taxes, vehicle titling taxes, registration fees, sales and use taxes, corporate income taxes, and bond proceeds. This source of funding is available to pay for operating, maintenance, and capital costs (including system preservation) associated with highways, transit, aviation, motor vehicle administration, and the Port of Baltimore.

The CTP contains all capital projects funded with the TTF. The TTF assures there are no administrative barriers to combining or flexing State or federal transportation funds to pay for the needs of a given project, within the constraints of statutory authority. Additionally, because transportation needs are not paid for using the State’s general fund, transportation does not have to compete with other State programs and expenditures for funding.

The total projected Trust Fund revenues amount to \$30.9 billion for the period covered by the FY 2021 – FY 2026 CTP. The TTF supports operation and maintenance of State transportation systems, MDOT administration, debt service, and capital projects. In addition, 5 percent of the Highway User Revenues credited to the TTF are shared with Maryland’s counties and Baltimore City to support their local transportation needs.

The Department maintains a six-year Financial Plan that is updated semi-annually. This plan forecasts revenues and expenditures using the latest economic estimates from two national forecasting companies. The revenue projections used in the latest update of the Trust Fund forecast are, in the short-term, based on a continuation of moderate growth in the national economy and, in the long-term, expected to follow a normal cyclical pattern around an overall upward trend. User revenues are payments made by our customers for transportation infrastructure and services; and as such, their long-term growth follows the trend in state population.

This STIP reflects the financial realities of the global pandemic and the significant loss of all sources of funds except federal funds. While federal funds increased with the three relief packages the state funds to match formula funds dramatically decreased. To continue with the program of projects MDOT had to use toll credits and shift federal funds to previously state funded projects wherever it was possible. This STIP's financial plan reflects the continuation of most of the previous projects but with a much greater reliance on federal funds and toll credits on previously state funded projects and federal projects that were 80/20 split funded.

MdTA is independently funded through tolls, concessions, investment income, revenue bonds, and miscellaneous sources; thus, its funding sources are separate from both the TTF and the State's General Fund. While there is no federal funding associated with any of the MdTA projects, the projects that MdTA constructs that are considered "Regionally Significant" can be found in the appropriate Metropolitan TIP. Please reference the various TIPs for the project information such as I-95 projects included in the BRTB TIP.

Another source of funding that is accounted for in the STIP includes local Congressional earmarks. Local earmarks can be found in the Minor Projects section of the SHA County PIF pages.

The revenue and cost estimates for the CTP/STIP use an inflation rate to reflect "year of expenditure dollars" based on reasonable financial principles and information developed cooperatively by the State, MPOs, and public transportation operators. The CTP describes the economic trends and assumptions that were used to estimate MDOT's revenue and operating cost projections. The CTP also describes the assumptions used to estimate federal aid for highways, transit, WMATA, and aviation.

(m) Fiscal Constraint: Fiscal constraint is a requirement that dates back to the Intermodal Surface Transportation Efficiency Act of 1991. The purpose of fiscal constraint is to ensure that states have adequate funding available to implement projects identified in the STIP while also providing for the operation and maintenance of the existing transportation system. The 2022 STIP is financially constrained by revenues that are reasonably expected to be available through the four-year funding period of the STIP or project completion using year of expenditure dollars. The revenue and expenditure projections use the latest available economic estimates from two national forecasting companies.

Several specific requirements apply to the federal definition of fiscal constraint. They include:

- A STIP must be financially constrained by year and funding category.
- The STIP must clearly identify projects to be funded using current revenues and which projects are to be funded using proposed revenue sources.

- Proposed funding sources and strategies ensuring their availability shall be identified.
- Operation and maintenance funding must be programmed into the STIP.
- The State must have a process for estimating expected revenue from all funding sources over the time period of the STIP and furnish this information to MPOs for the development of their TIPs.

The 2022 STIP demonstrates fiscal constraint in the following ways. The CTP and TIPs specify funding sources (Federal, State special, State general, other) to be used for projects broken down by year and project phase (planning, engineering, right-of-way, and construction). Projects (or phases of projects) are listed only if full funding is anticipated to be available for the project (or appropriate project phase) within the time period established for its completion. The Summary includes Operating and Maintenance Costs on pages A-16 through A-24, which are fully funded first before any funding is declared available for Capital projects. Lastly, all of the information contained in the MPO TIPs for the state projects comes directly from the CTP. Once the CTP is approved by the Maryland General Assembly and Governor, it becomes the budget established in the financial system.

State Highway Administration Details

The STIP primarily is a planning document, including a snapshot of revenue and expenditure information, projected over four years, at the time of adoption. This stands in contrast to a budget document, which would communicate day-to-day expenditures, approvals, and federal reimbursements. However, due to increasing scrutiny concerning the demonstration of fiscal constraint, a discussion of MDOT SHA's day-to-day budget process is relevant.

As described in the executive summary, the MDOT capital program is funded by State funds (dedicated Transportation Trust Fund revenues and CTP bond funds) and federal funds. MDOT SHA primarily receives federal funds from FHWA under a federal transportation funding authorization. MDOT SHA reviews each project to determine its eligibility to use federal-aid funds. Subsequently, FHWA must authorize the obligation of federal funds in advance of MDOT SHA seeking federal reimbursement of project costs. If federal eligibility criteria cannot be met, State funds must be programmed, if available, instead. The MDOT capital program budget process is based on a projection of available State funding versus available federal funding.

It is important to note that the federal surface transportation program primarily has been a capital construction program and rarely are federal funds authorized for maintenance projects or activities. At this time, only CHART operations activities receive federal funds as part of the maintenance program. The other exception is FEMA and FHWA Emergency Relief funds, which may be sought when a significant or catastrophic emergency weather event occurs and causes significant damage. It is important to capture the costs associated with these events in order to seek federal reimbursement. It should be noted that the use of federal funds for preliminary engineering and final design must be evaluated carefully given FHWA payback rules. Should a project not proceed to right-of-way acquisition or construction within 10 years, preliminary engineering and/or final design costs previously reimbursed with federal funds may need to be paid back.

Capital Project

A capital project included in the STIP generally is a project that ultimately results in the construction of an infrastructure asset or improves the infrastructure asset by extending its useful life. The CTP development process comply with Accounting Pronouncement GASB-

34, which requires infrastructure and all capital assets be accounted for and depreciated based on the reasonable useful life of the asset. MDOT CTP Bonds are backed by these infrastructure assets. These bonds require that capital program bond funds be used exclusively for appropriate capital program spending as authorized by the approved CTP. Each capital project must support the specific MDOT SHA capital program fund category from which it is funded, such as Fund 77 (Resurfacing and Rehabilitation). Each capital program fund must be used exclusively for the purposes approved by the Secretary and the Legislature.

Capital Program Fund Categories (Grouped Projects)

Capital program funds, such as Fund 80 (Bridge Replacement and Rehabilitation), are an integral part of managing MDOT SHA's capital program. Fund categories are approved by the administrator and the secretary during the budget submission process. Each fund category represents a capital investment in the MDOT SHA network. Funds can be spent on only capital projects within the MDOT SHA network unless the project has been approved as reimbursable by another party, i.e., a local jurisdiction. Work performed in the capital program cannot be considered repair or maintenance work, which is work that does not extend the useful life of a capital or infrastructure asset, but rather minimally extends the asset's life. Repairs to and maintenance of the MDOT SHA network must be approved and charged against the maintenance program.

Form 42 and Form 30 – Project/Contract Approval Process

The MDOT SHA capital project approval process is facilitated through the use of MDOT SHA Form 42 and MDOT SHA Form 30. These forms must be approved before capital funding can be authorized, committed, and/or expended. The Form 42 allows a project to be authorized for future funding from an approved capital fund category. One requirement of the Form 42 is that it must contain the appropriate TIP and/or STIP reference for the project. MDOT SHA Federal Aid Programming assesses the project's federal funding eligibility at that time. Accurately assessing eligibility is important as an erroneous determination can lead to potential under-spending of federal funding and over-spending of State funding. Approval of a Form 42 requesting construction funding signifies that the project can proceed to advertisement. The approved Form 42 commits the future funds under the appropriate capital program fund category, but it also allows the cash flow and forecasting process to begin. Subsequently, a Form 30 must be submitted to establish an active project number in FMIS, except in the case of advertised construction projects. It should be noted that any change in project cost, schedule, and/or scope is documented through the Form 42 and Form 30 process. This change approval step allows a project to be authorized for any changes that result in a decrease or increase of spending of State or federal dollars, as well as any significant changes in cash flow assumptions.

Advertisement Schedule

The MDOT SHA advertisement schedule is a working document reviewed weekly by MDOT SHA senior management and capital program fund managers that ensures all approved capital construction projects proceed to contract advertisement on schedule. FHWA also regularly participates in the weekly review. Only projects with an approved Form 42 can be included in the advertisement schedule. The review process ensures major milestones are achieved by meeting targeted dates including the project's notice to proceed date, on which the project's cash flow estimate and budget are based.

Monthly Forecast

The MDOT SHA monthly financial forecast allows MDOT SHA management to monitor capital program spending levels via the *budgetary* process (not the *planning* process). Each fund category within the approved CTP is monitored to ensure that project spending/programming is progressing within the estimated cash flow/approved budget or to determine if it is under- or overspending/programming. Immediate action must be taken to correct any significant spending issues. Generally, capital program spending is considered to have been successful if, at the end of a fiscal year, at least 90 percent of the programmed budget is spent, and State funding is not overspent.

Advance Construction

MDOT SHA uses Advance Construction (AC) procedures to manage its capital program. In general, all projects are placed in AC when advertised for construction. Conversion to regular federal funding occurs consistent with the cash flow required during each fiscal year. The cash flows used are the same as those carried in MDOT's CTP. Federally-funded projects are added to the program only when there is sufficient obligation authority (OA) remaining after providing for projects already underway. For planning purposes, the OA is calculated at a rate of 90.1-94.0 percent of authorized appropriations. A detailed analysis of the use of OA is prepared for CTP each year.

Additionally, MDOT SHA has utilized toll credits to manage the funding of highway improvements. Toll credits for non-federal share are a provision in United States Code that allow states to take a credit for documented non-federal expenditures by a State toll authority on routes that carry interstate commerce. The credit takes the form of replacing the federal matching share, i.e. the state share, making a project (or at least the federal-aid eligible portions of a project) 100 percent federally funded. Toll credits do not give a state any more federal aid to spend; toll credits only allow a state to use federal funds in lieu of the state match portion, which provides flexibility to better manage the use of state and federal funds. The STIP also includes fiscal constraint summary tables and explanation worksheets for MDOT SHA and for statewide projects (see Appendix B and Appendix C).

Appendix A

Statement of Self-Certification

Appendix B

SHA Financial Constraint Summary Table and Explanation Worksheet

Appendix C

Statewide Financial Constraint Summary Table and Explanation Worksheet

Appendix D

Eastern Federal Lands Division Projects

Appendix E

SPR Information

Appendix F

Federal Funding Sources

Appendix G

Glossary

Appendix H

List of Urban Projects in TIPs

Appendix I

This Appendix contains all Statewide Transit Projects that are not found in the MPO TIPs. (MDOT is no longer using the CTP to reference our Highway Projects.)

Appendix J

This Appendix contains the Consolidated Transportation Program Summary and all Statewide Highway Projects that are not found in the MPO TIPs. The Summary includes Operating and Maintenance Costs.

Appendix K

This Appendix contains the Performance Management Measures / National Goals Summary.

Appendix L

Public Outreach and Comments.

Appendix M

SHA List of Projects for which Federal funds have been obligated the previous year.

Appendix N

MTA List of Projects for which Federal funds have been obligated the previous year.

APPENDIX A – Statement of Self Certification

As MDOT oversees its modal agencies, there is close coordination in all aspects of project delivery. MDOT is in the possession of or is currently compiling the following Plans, Certifications and Assurances from all processes in relation to each federal requirement, including but not limited to the following:

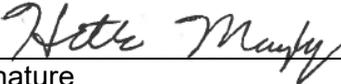
- Assurances
- Title VI Plan
- LEP Plan
- Self Evaluations
- Transition Plan
- Public Involvement Guidelines
- Memorandums of Understanding with MPOs
- Reviews of MPOs conducted by SHA/MTA
- Reviews conducted by Federal oversight agencies of MPOs (SHA/MTA)
- MPO Public Involvement Plans (Office of Planning and Capital Programming)

If you have any questions or need additional information, please do not hesitate to contact Tyson Byrne, Regional Planning Manager, Office of Planning and Capital Programming, at 410-865-1284, toll-free at 888-713-1414 or via email at tbyrne@mdot.maryland.gov.

**STATEWIDE TRANSPORTATION PLANNING PROCESS
SELF-CERTIFICATION**

The Maryland Department of Transportation hereby certifies that its statewide transportation planning process is addressing major issues facing the State and its non-urbanized areas, and is being carried out in accordance with the following requirements:

- I. 23 U.S.C. 134, 135 and 23 CFR 450; and 49 U.S.C. Section 5303 and 5304
- II. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1), the Title VI Assurance executed by each State under 23 U.S.C. 324 and 29 U.S.C. 794, and 49 CFR part 21;
- III. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- IV. Section 1101(b) of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in the USDOT funded projects;
- V. 23 CFR part 230, regarding implementation of an equal employment opportunity program on Federal and Federal-aid Highway construction contracts;
- VI. The provisions of the Americans With Disabilities Act of 1990 (42 U.S.C. 12101 *et seq.*) and 49 CFR part 27, 37 and 38;
- VII. Sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93. (Note-only for States with non-attainment and /or maintenance areas outside metropolitan planning area boundaries).
- VIII. The Older Americans Act, as amended (42 U.S.C. part 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- IX. Section 324 of title 23 U.S.C., regarding prohibition of discrimination on the basis of gender; and
- X. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.



Signature

Heather Murphy

Printed Name

Director, Office of Planning and Capital Programming

Title

September 6, 2021

Date

APPENDIX B – MDOT Financial Constraint Summary Tables

DEPARTMENT OF TRANSPORTATION
OPERATING AND CAPITAL PROGRAM SUMMARY
BY FISCAL YEAR
(\$ MILLIONS)

	CURRENT	BUDGET	Planning Years				SIX - YEAR TOTAL
	YEAR 2021	YEAR 2022	2023	2024	2025	2026	
CAPITAL PROGRAM							
The Secretary's Office AD	35.0	24.3	15.9	18.4	7.5	6.8	108.0
Motor Vehicle Administration	39.0	27.1	17.0	13.3	9.4	9.4	115.2
Maryland Aviation Administration D	142.7	223.6	193.6	167.1	100.4	26.9	854.3
Maryland Port Administration	180.9	202.6	204.3	205.4	164.6	101.5	1,059.3
Maryland Transit Administration D	646.0	620.4	458.4	537.5	492.5	377.4	3,132.0
Washington Metropolitan Area Transit ACD	439.7	443.9	448.3	452.8	457.5	462.2	2,704.4
<u>State Highway Administration B</u>	<u>1,343.1</u>	<u>1,104.5</u>	<u>1,148.5</u>	<u>1,189.7</u>	<u>1,178.6</u>	<u>1,239.2</u>	<u>7,203.5</u>
TOTAL CAPITAL	2,826.4	2,646.3	2,486.0	2,584.0	2,410.5	2,223.6	15,176.8
Special Funds	1,145.3	798.9	1,012.8	1,172.2	1,137.2	1,137.7	6,404.2
Federal Funds	1,299.1	1,283.4	934.9	918.3	891.4	804.0	6,131.0
Other Funds F	381.9	564.0	538.3	493.6	381.9	281.9	2,641.6
OPERATING PROGRAM							
The Secretary's Office A	101.7	100.0	102.0	104.0	106.0	109.0	622.7
Motor Vehicle Administration	202.8	202.1	207.0	212.0	217.0	222.0	1,262.9
Maryland Aviation Administration	195.6	198.6	204.0	209.0	214.0	219.0	1,240.2
Maryland Port Administration	48.6	49.4	50.0	51.0	52.0	53.0	304.0
Maryland Transit Administration	897.5	914.7	1,056.0	1,114.0	1,135.0	1,161.0	6,278.2
Washington Metropolitan Area Transit	424.5	450.7	465.0	479.0	493.0	508.0	2,820.2
<u>State Highway Administration</u>	<u>289.6</u>	<u>299.4</u>	<u>306.0</u>	<u>314.0</u>	<u>322.0</u>	<u>330.0</u>	<u>1,861.0</u>
TOTAL OPERATING	2,160.3	2,214.9	2,390.0	2,483.0	2,539.0	2,602.0	14,389.2
Special Funds	2,054.0	2,099.5	2,284.0	2,377.0	2,433.0	2,496.0	13,743.5
Federal Funds	106.3	115.4	106.0	106.0	106.0	106.0	645.7
Other Funds							
DEBT SERVICE REQUIREMENTS							
Special Funds	415.9	451.3	482.0	446.0	453.0	467.0	2,715.2
Federal Funds	-	-	-	-	-	-	-
Other Funds	-	-	-	-	-	-	-
DEPARTMENTAL TOTAL							
Special Funds	<u>4,986.6</u>	<u>4,861.2</u>	<u>4,876.0</u>	<u>5,067.0</u>	<u>4,949.5</u>	<u>4,825.6</u>	<u>29,566.0</u>
Federal Funds	3,615.2	3,349.7	3,778.8	3,995.2	4,023.2	4,100.7	22,862.9
Other Funds	1,405.4	1,398.8	1,040.9	1,024.3	997.4	910.0	6,776.7
Other Funds	381.9	564.0	538.3	493.6	381.9	281.9	2,641.6

^A - WMATA capital and operating grants in the Secretary's Office budget are shown for informational purposes.

^B - Includes County and Municipality transfer funds from the federal government.

^C - Capital Program WMATA Grants line federal funds received by WMATA directly.

^D - "Other" funds are included in the totals for TSO, MAA, MTA, and WMATA.

^E - Debt Service for County Bonds is not included in FY 23-26.

^F - Funds not received through the Trust Fund. Includes from Passenger and Facility Charges (PFC), Maryland Transportation Authority (MdTA) funds, Certificates of Participation (COPs), County participation and federal funds received by WMATA directly.

**SUMMARY OF FEDERAL AID OBLIGATIONS
(\$ MILLIONS)**

The following listing estimates the annual levels of funds anticipated from individual federal aid categories necessary to support the FY 2021 - FY 2026 CTP/STIP:

	2021	2022	2023	2024	2025 - 2026	TOTAL
Maryland Transit Administration						
New Starts, Fixed Guideway, Modernization and Bus	276.7	251.8	163.0	166.3	342.6	1,200.4
Elderly and Persons with Disabilities	0.0	3.8	3.9	4.0	12.5	24.2
Rural Area Formula	0.0	7.2	7.4	7.5	23.5	45.6
Subtotal (MTA)	276.7	262.8	174.3	177.8	378.6	1,270.2
State Highway Administration						
Statewide Planning & Research	20.5	21.2	20.7	21.1	43.0	126.5
Surface Transportation Program	167.8	132.9	164.0	153.6	469.0	1,087.3
Transportation Alternative Program	17.9	12.0	11.9	12.2	23.8	77.8
Special Federal Appropriations	59.9	13.1	0.1	0.0	0.0	73.1
Highway Safety Improvement Program	38.4	28.9	29.0	12.9	52.0	161.2
National Highway Performance Program	256.0	277.3	394.7	395.9	559.5	1,883.4
NHPP Exempt Program	29.9	9.0	9.2	9.3	19.0	76.4
Congestion Mitigation/Air Quality	54.4	54.1	52.8	52.8	93.6	307.7
Subtotal (SHA)	644.8	548.5	682.4	657.8	1,259.9	3,793.4
Grand Total	921.5	811.3	856.7	835.6	1,638.5	5,063.6

MARYLAND STATE HIGHWAY ADMINISTRATION ADVANCE CONSTRUCTION (AC) FORECAST (Dollars in Millions)					
SFY	2021*	2022	2023	2024	2025
AC Beginning Balance	638.0	725.1	553.9	525.6	530.9
New AC - Planned	1076.8	658.6	758.4	811.5	808.1
New AC - Managed	589.9	491.6	413.2	393.4	404.8
AC Sub-Total	2,304.7	1,875.3	1,725.5	1,730.5	1,743.8
Less: AC Conversions - Planned	(983.1)	(826.5)	(786.7)	(809.7)	(802.3)
Less: AC Conversions - Managed	(589.9)	(491.6)	(413.2)	(393.4)	(404.8)
Ending AC Balance	731.7	557.2	525.6	527.4	536.7

Note: regarding AC Conversions, the State of Maryland converts based on two thirds (2/3) of the total program in the current fiscal year and one third (1/3) of the total program in the following fiscal year.

*FY 2021 is for informational purposes only; STIP covers FY 2022-2025.

**MARYLAND TRANSIT ADMINISTRATION
CAPITAL PROGRAM SUMMARY
(\$ MILLIONS)**

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	SIX - YEAR TOTAL
Construction Program							
Major Projects	546.0	518.7	375.8	340.8	248.8	177.6	2,207.7
System Preservation Minor Projects	81.5	84.7	60.4	176.4	211.8	182.7	797.5
Development & Evaluation Program							
	6.4	4.5	9.2	6.3	17.8	2.1	46.3
SUBTOTAL	633.9	607.9	445.4	523.5	478.5	362.4	3,051.5
Capital Salaries, Wages & Other Costs	12.1	12.5	13.0	14.0	14.0	15.0	80.6
TOTAL	646.0	620.4	458.4	537.5	492.5	377.4	3,132.0
Special Funds	127.6	16.3	228.8	315.1	302.4	210.5	1,200.8
Federal Funds	449.8	512.8	213.8	222.1	190.0	166.9	1,755.4
Other Funds	68.6	91.2	15.8	0.3	-	-	175.9

* For Minors breakdown, please refer to the System Preservation Minor Projects Program report.

**STATE HIGHWAY ADMINISTRATION
CAPITAL PROGRAM SUMMARY
(\$ MILLIONS)**

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	SIX - YEAR TOTAL
Construction Program							
Major Projects	329.0	240.9	175.2	153.2	117.2	52.1	1,067.6
System Preservation Minor Projects	745.5	605.6	706.5	762.5	855.4	987.6	4,663.0
Highway User Revenues	236.9	254.2	263.5	269.7	195.7	197.1	1,417.1
Development & Evaluation Program							
	31.7	3.7	3.3	4.4	10.3	2.5	55.9
SUBTOTAL	1,343.1	1,104.5	1,148.5	1,189.7	1,178.6	1,239.2	7,203.5
Capital Salaries, Wages & Other Costs	-	-	-	-	-	-	-
TOTAL	1,343.1	1,104.5	1,148.5	1,189.7	1,178.6	1,239.2	7,203.5
Special Funds	516.7	390.1	460.0	514.2	496.4	591.3	2,968.8
Federal Funds	811.3	699.3	673.6	660.5	667.1	632.9	4,144.8
Other Funds	15.0	15.0	15.0	15.0	15.0	15.0	90.0

* For Minors breakdown, please refer to the System Preservation Minor Projects Program report.

APPENDIX C - Statewide Financial Constraint Summary Table and Explanation

FISCAL CONSTRAINT - ANTICIPATED REVENUES AND COSTS VERSUS PROGRAMMED FUNDING FOR PROJECTS

Dollars in Millions

	2022	2023	2024	2025	2022 – 2025 TOTAL
RESOURCES AVAILABLE					
STATE REVENUE					
State Motor Fuel Taxes	\$ 1,047	\$ 1,123	\$ 1,181	\$ 1,215	\$ 4,566
Registration and MVA Fees	425	419	418	428	1,690
Vehicle Titling Taxes	881	953	995	1,017	3,846
Corporate Income Taxes	219	232	245	257	953
Rental Car Sales Tax	30	32	33	34	129
Miscellaneous Motor Vehicle Fees	287	288	304	300	1,179
Total Taxes and Fees	\$ 2,889	\$ 3,047	\$ 3,176	\$ 3,251	\$ 12,363
DEDUCTIONS					
To Other Agencies	76	78	80	82	316
MDOT Program and Fees (a)	717	806	873	909	3,305
MVA Cost Recovery (b)	213	210	225	220	868
Net Transportation Revenues	\$ 1,883	\$ 1,953	\$ 1,998	\$ 2,040	\$ 7,874
To the Department (MDOT) (c)	1,883	1,953	1,998	2,040	7,874
Subtotal to the Department (a+b+c)	\$ 2,813	\$ 2,969	\$ 3,096	\$ 3,169	\$ 12,047
OPERATING REVENUES					
Maryland Port Administration	47	50	51	52	200
Maryland Transit Administration	115	135	168	172	590
Maryland Aviation Administration	244	247	253	259	1,003
Total Operating Revenues	\$ 406	\$ 432	\$ 472	\$ 483	\$ 1,793
MISCELLANEOUS					
Investment Income	2	2	2	2	8
Federal Operating Assistance	115	106	106	106	433
Miscellaneous Revenue	83	55	61	50	249
Reimbursements/GO Bonds (WIP)	15	15	15	15	60
Reserve for Changes in Revenue Sources	(32)	-	-	-	(32)
Total Miscellaneous	\$ 183	\$ 178	\$ 184	\$ 173	\$ 718
TOTAL REVENUES	\$ 3,402	\$ 3,579	\$ 3,752	\$ 3,825	\$ 14,558
RECEIPTS					
Transfers In/(Out)	-	-	-	-	-
Bond Sales	100	325	395	325	1,145
Funds from Rollover - Fund Balance	-	-	(25)	-	(25)
TOTAL REVENUES AND RECEIPTS	\$ 3,502	\$ 3,904	\$ 4,122	\$ 4,150	\$ 15,678

	2022	2023	2024	2025	2022 – 2025 TOTAL
EXPENDITURES					
Debt Service Payments	\$ 451	\$ 482	\$ 446	\$ 453	\$ 1,832
Operating and Maintenance Expenditures	2,240	2,400	2,493	2,549	9,682
State Dollars Available for Capital Projects	<u>811</u>	<u>1,022</u>	<u>1,183</u>	<u>1,148</u>	<u>4,164</u>
Total Expenditures	\$ 3,502	\$ 3,904	\$ 4,122	\$ 4,150	\$ 15,678
Non-Surface Transportation State Dollars					-
Maryland Transit Administration State Dollars					-
WMATA State Dollars					-
State Highway Administration State Dollars					-
Total State Dollars for Capital Projects	\$ -	\$ -	\$ -	\$ -	\$ -
State Revenues Minus Expenditures	\$ 811	\$ 1,022	\$ 1,183	\$ 1,148	\$ 4,164

FY 2022 FEDERAL-AID HIGHWAY PROGRAM APPORTIONMENTS UNDER FAST ACT							
State	Percent of Capital Enhancement	National Highway Performance Program	Surface Transportation Block Grant Program	Highway Safety Improvement Program	Congestion Mitigation & Air Quality Improvement	National Highway Freight Program	Apportioned Table
Maryland		331,875,076	161,772,359	35,528,279	1,406,919	22,039,484	552,622,117
MPO							
TPB (Washington Metropolitan Area)	48.6%	\$ 161,291,287	\$ 78,621,366	\$ 17,266,744	\$ 683,763	\$ 10,711,189	\$ 268,574,349
BRTB (Baltimore Metropolitan Area)	40.3%	\$ 133,745,656	\$ 65,194,261	\$ 14,317,896	\$ 566,988	\$ 8,881,912	\$ 222,706,713
Rural Non-MPO	6.0%						\$ 33,157,327
HEPMPO (Washington)	0.7%						\$ 3,868,355
S/WMPO (Salisbury-Wicomico)	1.0%						\$ 5,526,221
C-SMMPO	1.7%						\$ 9,394,576
WILMAPCO (Cecil)	0.5%						\$ 2,763,111
CAMPO (Allegheny)	1.2%						\$ 6,631,465
							\$ 552,622,117

FEDERAL-AID HIGHWAY PROGRAM FUNDING PRIOR TO FY2022							
State	Percent of Capital Enhancement	National Highway Performance Program	Surface Transportation Block Grant Program	Highway Safety Improvement Program	Congestion Mitigation & Air Quality Improvement	National Highway Freight Program	Apportioned Table
Maryland		246,676,670	160,817,752	70,888,933	573,273	24,992,611	503,949,237
MPO							
TPB (Washington Metropolitan Area)	48.6%	\$ 119,884,862	\$ 78,157,427	\$ 34,452,021	\$ 278,611	\$ 12,146,409	\$ 244,919,329
BRTB (Baltimore Metropolitan Area)	40.3%	\$ 99,410,698	\$ 64,809,554	\$ 28,568,240	\$ 231,029	\$ 10,072,022	\$ 203,091,543
Rural Non-MPO	6.0%						\$ 30,236,954
HEPMPO (Washington)	0.7%						\$ 3,527,645
S/WMPO (Salisbury-Wicomico)	1.0%						\$ 5,039,492
C-SMMPO	1.7%						\$ 8,567,137
WILMAPCO (Cecil)	0.5%						\$ 2,519,746
CAMPO (Allegheny)	1.2%						\$ 6,047,391

TOTAL FEDERAL-AID HIGHWAY PROGRAM AVAILABLE FOR FY 2022										
State	Percent of Capital Enhancement	National Highway Performance Program	Surface Transportation Block Grant Program	Highway Safety Improvement Program	Congestion Mitigation & Air Quality Improvement	National Highway Freight Program	GENERIC FEDERAL FUNDS	Subtotal		Total
Maryland		578,551,746	322,590,111	106,417,212	1,980,192	47,092,095		1,056,571,354		1,056,571,354
MPO										
TPB (Washington Metropolitan Area)	48.6%	\$ 281,176,149	\$ 156,778,794	\$ 51,718,765	\$ 962,373	\$ 22,857,598	\$ -	\$ 513,493,678	\$ -	\$ 513,493,678
BRTB (Baltimore Metropolitan Area)	40.3%	\$ 233,156,354	\$ 130,003,815	\$ 42,886,136	\$ 798,017	\$ 18,953,934	\$ -	\$ 425,798,256		\$ 425,798,256
Rural Non-MPO	6.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63,394,281	\$ 63,394,281	\$ -	\$ 63,394,281
HEPMPO (Washington)	0.7%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,395,999	\$ 7,395,999	\$ -	\$ 7,395,999
S/WMPO (Salisbury-Wicomico)	1.0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,565,714	\$ 10,565,714	\$ -	\$ 10,565,714
C-SMMPO	1.7%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,961,713	\$ 17,961,713	\$ -	\$ 17,961,713
WILMAPCO (Cecil)	0.5%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,282,857	\$ 5,282,857	\$ -	\$ 5,282,857
CAMPO (Allegheny)	1.2%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,678,856	\$ 12,678,856	\$ -	\$ 12,678,856

TOTAL MARYLAND HIGHWAY PROGRAM FOR FY 2022										
State	Percent of Capital Enhancement	National Highway Performance Program	Surface Transportation Block Grant Program	Highway Safety Improvement Program	Congestion Mitigation & Air Quality Improvement	National Highway Freight Program	GENERIC FEDERAL FUNDS	Subtotal	INFRA/BUILD	Total
Maryland										
MPO										
TPB (Washington Metropolitan Area)	#DIV/0!	\$82,726,201	\$91,474,000	\$3,258,000	\$4,523,000	\$662,000		\$ 182,643,201		\$ 182,643,201
BRTB (Baltimore Metropolitan Area)	#DIV/0!	\$ 214,439,000	\$ 219,043,000	\$ 23,080,000	\$ 51,499,000			\$ 508,061,000	\$ 34,188,000	\$ 542,249,000
Rural Non-MPO	14.4%	\$ 12,942,000	\$ 49,865,000		\$ 1,739,000	\$ 548,000	\$ 8,023,000	\$ 73,117,000		\$ 73,117,000
HEPMPO (Washington)	#DIV/0!	\$ 6,584,000	\$ 616,000				\$ 39,923,905	\$ 47,123,905		\$ 47,123,905
S/WMPO (Salisbury-Wicomico)	#DIV/0!	\$ 227,200					\$ 12,632,000	\$ 12,859,200		\$ 12,859,200
C-SMMPO	#DIV/0!		\$ 1,264,000		\$ 8,730		\$ 16,104,000	\$ 17,376,730		\$ 17,376,730
WILMAPCO (Cecil)	#DIV/0!						\$ 11,636,800	\$ 11,636,800	\$ 4,800,000	\$ 16,436,800
CAMPO (Allegheny)	#DIV/0!	\$ 11,848,000	\$ 4,274,400				\$ 37,272,000	\$ 53,394,400		\$ 53,394,400

FY 2021 FEDERAL-AID TRANSIT PROGRAM APPORTIONMENTS UNDER FAST ACT										
State	5307	5309	5310	5311	5329	5337	5339	APPALACHIAN DEVELOPMENT PUBLIC TRANSPORTATION ASSISTANCE PROGRAM	5304	Total
Maryland Statewide	\$ -	\$ 117,253,159	\$ 643,837	\$ 158,616	\$ 758,099	\$ 63,145,559	\$ 3,500,000	\$ 636,000	\$ 540,669	\$186,095,270
Over 1,000,000	\$ 160,517,178	\$ -	\$ 2,221,373	\$ -	\$ -	\$ -	\$ 4,972,532	\$ -		\$167,711,083
200,000-999,999	\$ 3,657,623	\$ -		\$ -	\$ -	\$ -		\$ -		\$3,657,623
50,000-199,999	\$ 14,342,674	\$ -	\$ 1,006,256	\$ -	\$ -	\$ -	\$ 959,315	\$ -		\$16,308,245
Totals	\$ 178,517,475	\$ 117,253,159	\$ 3,871,466	\$ 158,616	\$ 758,099	\$ 63,145,559	\$ 9,431,847	\$ 636,000		\$ 373,772,221
MPO										
TPB (Washington Metropolitan Area)	\$ 89,545,049	\$ 117,253,159								\$206,798,208
BRTB (Baltimore Metropolitan Area)	\$ 80,289,163		\$ 2,221,373				\$ 4,972,532			\$87,483,068
HEPMPO (Washington)	\$ 2,247,903									\$2,247,903
S/WMPO (Salisbury-Wicomico)	\$ 2,064,202									\$2,064,202
C-SMMPPO	\$ 1,520,911									\$1,520,911
WILMAPCO (Cecil)	\$ 1,706,752									\$1,706,752
CAMPO (Allegheny)	\$ 1,143,495									\$1,143,495
Rural Non-MPO			\$ 643,837							\$643,837
	\$178,517,475	\$117,253,159	\$2,865,210	\$0	\$0	\$0	\$4,972,532	\$0		\$303,608,376

FY 2022 FEDERAL-AID TRANSIT PROGRAM PROGRAMMED IN TIPS										
State	5307	5309	5310	5311	5329	5337	5339	APPALACHIAN DEVELOPMENT PUBLIC TRANSPORTATION ASSISTANCE PROGRAM	5304	Total
MPO										
TPB (Washington Metropolitan Area)	\$35,405,300	\$116,000,000	\$ -	\$743,000	\$ -	\$ -	\$ -	\$ -		\$152,148,300
BRTB (Baltimore Metropolitan Area)	\$ 139,724,000	\$ -	\$ 3,608,000	\$ -	\$ 400,000	\$ 53,250,000	\$ 7,758,000	\$ -		\$204,740,000
HEPMPO (Washington)	\$ 1,213,541		\$ 2,161,780				\$ 381,072	\$ 1,000,000		\$4,756,393
S/WMPO (Salisbury-Wicomico)	\$ 2,346,000			\$ 226,000			\$ 608,000	\$ -		\$3,180,000
C-SMMPPO	\$ 782,624		\$ 108,000	\$ 846,754			\$ 460,399	\$ -		\$2,197,777
WILMAPCO (Cecil)	\$ 340,000			\$ 262,400			\$ 160,000	\$ -		\$762,400
CAMPO (Allegheny)	\$ 823,647		\$ 55,200	\$ 3,190			\$ -	\$ -		\$882,037
Rural Non-MPO			\$ 1,105,000	\$ 6,136,000			\$ 297,000	\$ -	\$ 1,444,000	\$7,538,000
	\$180,635,112	\$116,000,000	\$7,097,980	\$8,217,344	\$400,000	\$53,250,000	\$9,664,471	\$1,000,000	\$1,444,000	\$376,204,907

APPENDIX D – Eastern Federal Lands Division Projects

FY2021-FY2024 Transportation Improvement Program
Federal Highway Administration
Eastern Federal Lands Highway Division

PROJECT	PROGRAM FISCAL YEAR	STATE	COUNTY	PARK, REFUGE, FOREST OR OTHER PARTNER/AGENCY	DESCRIPTION	TYPE OF WORK	PRIMARY FUND SOURCE	TOTAL PROGRAMMED AMOUNT	FUNDS FROM TITLE	DELIVERED BY	STATUS	CONGRESSIONAL DISTRICT	FLMA REGION
Maryland													
FW PATU 16(3)	2020	MD	Anne Arundel	Patuxent Research Refuge	Rehab Wildlife Loop Duvall Bridge Rd to south of Little Patuxent River bridge.	3RL	OTHER	\$ 1,085,000.00	Title 23	EFLHD	In Design	MD-04	FWS
GWMP 6(1) 7(2)	2020	MD	Montgomery and Prince George's	George Washington Memorial Parkway	Clara Barton Pkwy mill including guardrail and guardwall	3RH	FLTP	\$ 4,048,150.00	Title 23	EFLHD	Under Construction	_VARIOUS	NPS
MD FLAP WMSPT 11(1)	2020	MD	Washington County	Chesapeake & Ohio Canal National Historical Park	This project consists of developing new sidewalk infrastructure and enhancing existing crosswalks an	MISC	FLAP	\$ 510,000.00	Title 23	LOCAL	In Design	MD-06	NPS
NP CHOH 104(1)	2020	MD	Washington	Chesapeake & Ohio Canal National Historical Park	Replace Little Tonoloway Bridge 3100-11P.	BRRC	FLTP	\$ 510,000.00	Title 23	EFLHD	Under Construction	MD-06	NPS
MD FLAP WMSPT 63(1) 68(1)	2021	MD	Washington	National Park Service / C&O Canal National Historical Park	Rehabilitating the roadway and sidewalks along MD 63 and MD 68 in the Town of Williamsport, MD.	3RL	FLAP	\$ 1,003,407.38	Title 23	LOCAL	In Design	MD-06	NPS
NP BAWA 1(9) 2(9)	2021	MD	Anne Arundel	Baltimore Washington Parkway	BW Parkway Guardrails and Sign Replacement from Big Patuxent River Bridge to MD 175.	3RL	FLTP	\$ 2,000,000.00	Title 23	EFLHD	In Design	MD-05	NPS
MD ERFO NPS CHOH 2019-1(1)	2022	MD	Montgomery	Chesapeake & Ohio Canal National Historic Park	Repair storm damage on Great Falls Entrance Road & at Swaims Lock Parking Area.	MISC	ERFO	\$ 374,000.00	Title 23	EFLHD	Planned	MD-06	NPS
NP BAWA 507(1) 509(1)	2022	MD	Prince Georges and Anne Arundel	Baltimore Washington Parkway	Lighting Improvements on Route 197, Route 32, and I-95 Interchanges	MISC	FLTP	\$ 250,000.00	Title 23	EFLHD	Planned	MD-04	NPS
NP CHOH 206(1) 913(1) ETC	2022	MD	Washington, Montgomery, Allegany	Chesapeake & Ohio Canal National Historical Park	Repair/Rehabilitate bridges 3100-001P, -005P and -013P.	BRRH	FLTP	\$ 625,000.00	Title 23	EFLHD	In Design	_VARIOUS	NPS
NP GWMP 6(2)	2022	MD	Montgomery County	George Washington Memorial Parkway	Rehab cantilever Structure 3300-044.	BRRH	FLTP	\$ 4,000,000.00	Title 23	EFLHD	Planned	MD-08	NPS
BAWA 1(6) 2(6)	2023	MD	Prince George's	Baltimore Washington Parkway	Baltimore Washington Parkway median safety improvements	MISC	REIMB	\$ 350,000.00	Title 54	EFLHD	In Design	MD-05	NPS
FW PATU 13(1)	2023	MD	Prince Georges	Patuxent Research Refuge	Resurface Powder Mill Road from South Boundary to MD Route 197.	3RL	FLTP	\$ 1,297,000.00	Title 23	EFLHD	Planned	MD-04	FWS
NP ANTI 300(2) 307(1) ETC	2023	MD	Washington	Antietam National Battlefield	Pavement preservation of various Routes and trail work at Burnside Bridge.	2R	FLTP	\$ 1,259,300.00	Title 23	EFLHD	In Design	MD-06	NPS
NP BAWA 1(10) 2(10)	2023	MD	Anne Arundel	Baltimore Washington Parkway	Improve shoulder areas at 8 locations for vehicles to safely stand outside of the traffic lanes.	MISC	FLTP	\$ 5,000,000.00	Title 23	EFLHD	In Design	MD-04	NPS

FY2021-FY2024 Transportation Improvement Program
Federal Highway Administration
Eastern Federal Lands Highway Division

PROJECT	PROGRAM FISCAL YEAR	STATE	COUNTY	PARK, REFUGE, FOREST OR OTHER PARTNER/AGENCY	DESCRIPTION	TYPE OF WORK	PRIMARY FUND SOURCE	TOTAL PROGRAMMED AMOUNT	FUNDS FROM TITLE	DELIVERED BY	STATUS	CONGRESSIONAL DISTRICT	FLMA REGION
NP BAWA 1(11) 2(11)	2023	MD	Anne Arundel	Baltimore Washington Parkway	Improve 4 median crossover areas for authorized vehicles	MISC	FLTP	\$ 440,000.00	Title 23	EFLHD	In Design	MD-04	NPS
NP BAWA 1(12) 2(12)	2023	MD	Anne Arundel, Prince George's	Baltimore Washington Parkway	Bridge Railing and Capstone Replacement Structure Nos. 3530-003P, 004P, & 021P.	BRRH	FLTP	\$ 3,850,000.00	Title 23	EFLHD	Planned	MD-04	NPS
NP CATO 10(5) 11(2) ETC	2023	MD	Frederick	Catoctin Mountain Park	Repair RT 11 Section 0 Foxville-Deerfield Rd	3RH_3RL	FLTP	\$ 500,000.00	Title 23	EFLHD	In Design	MD-06	NPS
NP NACE 300(1) 301(1)	2023	MD	Prince George's	National Capital Parks East	Marshall Hall Access Road & Loop Road reconstruction	3RH	REIMB	\$ 629,000.00	Title 54	EFLHD	Planned	MD-04	NPS

APPENDIX E – Statewide Planning and Research Information

<u>STUDY NUMBER</u>	<u>PROGRAM VOLUME</u>	SUMMARY OF FUNDS FY 2022			STATE COST (Participating)	TOTAL COST PER PROJECT
		ESTIMATED STATEWIDE PLANNING COST (Participating)	ESTIMATED STBG COST (Participating)	ESTIMATED TOLL CREDIT COST (Participating)		
<u>I. ADMINISTRATION AND CONTROL</u>						
SP122A4M SP122C4M	Performance Management & Planning	\$0	\$267,303	\$50,119	\$16,706	\$334,129
SP122A45	Recreational Trails Program	\$0	\$0	\$0	\$173,492	\$173,492
SP522A46 SP522C46	eConstruction Implementation Planning	\$0	\$73,521	\$13,785	\$4,595	\$91,901
SP222A43 SP222C43	Standards, Specifications and Category Code Book Updates	\$0	\$240,687	\$45,129	\$15,043	\$300,859
SP222A45 SP222C45	Practical Design & Performance Design	\$0	\$99,645	\$18,683	\$6,228	\$124,556
SP222A48 SP222C48	Construction Project Tracking	\$0	\$38,975	\$7,308	\$2,436	\$48,719
SP122A4D SP122C4D	Local Government Pre-NEPA Support	\$0	\$243,230	\$45,606	\$15,202	\$304,037
SP222A47 SP222C47	SWM/Drainage Technical Guidance Development and Asset Management Program Support	\$0	\$100,926	\$18,924	\$6,308	\$126,157
SP222A4D SP222C4D	Stormwater Management System Preservation and Process Improvements	\$0	\$169,402	\$31,763	\$11,588	\$212,752
SP222A4G SP222C4G	Streamline and Process Improvements of Maintenance of SWM facilities	\$0	\$68,926	\$12,924	\$4,308	\$86,157
SP522A49 SP522C49	NPDES MS4 Credit Impact Management Policy & Procedures	\$0	\$39,523	\$7,410	\$2,470	\$49,403
SP222A49 SP222C49	Code 378 Small Pond Review and Approval Guidelines and Procedures	\$0	\$172,314	\$32,309	\$10,770	\$215,393
SP222A4B SP222C4B	Stormwater Asset Management Resources, Training Materials and GIS Applications	\$0	\$84,926	\$15,924	\$5,308	\$106,157
SP222A4A SP222C4A	Stream Restoration Water Quality Crediting	\$0	\$114,876	\$21,539	\$7,180	\$143,595
SP222A4J SP222C4J	Survey Control Database Maintenance and Integration	\$0	\$79,596	\$14,924	\$4,975	\$99,495

SP322A4A SP322C4A	Zero Emissions Vehicles (ZEV) Program	\$0	\$84,595	\$15,862	\$5,287	\$105,744
	SUB TOTAL	\$0	\$1,878,442	\$352,208	\$291,895	\$2,522,545
II. MAPPING						
SP122A4L SP122C4L	Mapping Team/Mapping Development & Support	\$0	\$586,625	\$109,992	\$36,664	\$733,282
	SUB TOTAL	\$0	\$586,625	\$109,992	\$36,664	\$733,282
III. TRAFFIC						
SP122A4Q SP122B4Q	Traffic Monitoring System (TMS) Program	\$2,251,104	\$0	\$325,291	\$319,985	\$2,896,380
SP222A44 SP222C44	Cost Estimating Research & Development	\$0	\$44,084	\$8,266	\$2,755	\$55,105
SP322A41 SP322C41	Connected & Automated Vehicle (CAV) Program	\$0	\$309,188	\$57,973	\$19,324	\$386,485
SP222A4H SP222C4H	Delta Course Laser Calibration Range Installation	\$0	\$73,378	\$13,758	\$6,086	\$93,223
SP322A4F SP322C4F	Traffic Engineering and Operational Analysis Program	\$0	\$661,295	\$123,993	\$41,331	\$826,619
SP322A4D SP322C4D	Traffic Engineering Preliminary Initiatives	\$0	\$242,473	\$45,464	\$15,155	\$303,091
SP322A4E SP322C4E	Traffic Safety Policy and Research Program	\$0	\$733,866	\$137,600	\$45,867	\$917,332
	SUB TOTAL	\$2,251,104	\$2,064,285	\$712,344	\$450,503	\$5,478,236
IV. HIGHWAY STATISTICS						
SP122A4N SP122B4N	State and Local Highway	\$389,087	\$0	\$72,954	\$24,318	\$486,358
SP122A4P SP122C4P	Highway Performance and Monitoring System (HPMS)	\$0	\$148,203	\$27,788	\$9,263	\$185,253
SP522A41 SP522B41	Highway Management Information System (HMIS) Coordination	\$1,599,963	\$0	\$202,494	\$447,496	\$2,249,954
SP122A4R SP122C4R	Data Collection, Analysis and Distribution	\$0	\$636,826	\$94,924	\$68,283	\$800,032
SP522A42 SP522B42	Enterprise GIS Application Support & Data Governance	\$800,000	\$0	\$150,000	\$50,000	\$1,000,000
SP522A43 SP522B43	Geospatial Support and Data Development	\$1,336,847	\$0	\$199,627	\$140,585	\$1,677,058
SP122A4S SP122B4S	One Maryland One Centerline Support and Roads and Highways Implementation	\$368,000	\$0	\$69,000	\$23,000	\$460,000

SP522A44	Finance		\$0	\$0	\$0	\$9,051	\$9,051
		SUB TOTAL	\$4,493,897	\$785,029	\$816,787	\$771,995	\$6,867,707
<u>V. SYSTEMS AND PROGRAMMING</u>							
SP122A41	Six Year Program (CTP)		\$685,821	\$0	\$137,603	\$93,932	\$917,356
SP122B41							
SP122A42	Regional Planning		\$1,488,178	\$0	\$279,033	\$93,011	\$1,860,222
SP122B42							
SP122A47	Historic Highway Bridge Program		\$0	\$33,155	\$6,216	\$2,072	\$41,443
SP122C47							
SP122A48	Highway Noise Analysis and Program Support		\$0	\$147,899	\$27,731	\$9,694	\$185,324
SP122C48							
SP122A49	Modeling/Application Development		\$0	\$254,876	\$47,789	\$15,930	\$318,595
SP122C49							
SP122A4B	Statewide Travel Modeling Activities		\$0	\$578,876	\$110,789	\$48,930	\$738,595
SP122C4B							
SP122A4K	Asset Data Technology Planning (ADTP)		\$800,000	\$0	\$150,000	\$50,000	\$1,000,000
SP122B4K							
SP322A4C	Asset Data Collection, Management and Technology		\$0	\$700,000	\$131,250	\$43,750	\$875,000
SP322C4C	Planning						
SP322A4B	Asset Management Program and Plan Support		\$0	\$719,998	\$135,000	\$45,000	\$899,997
SP322C4B							
SP222A42	OHD GIS and Engineering Support		\$0	\$538,289	\$100,929	\$33,643	\$672,861
SP222C42							
SP222A46	3D Modeling for Construction		\$0	\$348,880	\$65,415	\$21,805	\$436,100
SP222C46							
SP222A4K	Project Database and Electronic File Support		\$0	\$733,785	\$137,585	\$45,862	\$917,232
SP222C4K							
SP222A4L	Research Support for MDOT SHA Districts		\$0	\$37,438	\$7,020	\$2,340	\$46,798
SP222C4L							
SP522A48	SMART Field Form for Maintenance Environmental		\$0	\$38,975	\$7,308	\$2,436	\$48,719
SP522C48	Permitting						
SP222A4F	SWM Embankment Dam Safety Hazard Classification		\$0	\$114,876	\$21,539	\$7,180	\$143,595
SP222C4F	and EAP						
SP522A47	Unmanned Aircraft Systems Program		\$0	\$80,000	\$15,000	\$55,000	\$150,000
SP522C47							
SP322A43	CATT Lab Operations Support FY 2022		\$0	\$800,000	\$150,000	\$50,000	\$1,000,000
SP322C43							
SP322A42	University of Maryland Technical Support for Chart ITS		\$0	\$800,000	\$150,000	\$50,000	\$1,000,000
SP322C42	FY 2022						

SP322A44	CHART Performance Evaluation CY 2021	\$0	\$156,000	\$29,250	\$9,750	\$195,000
SP322C44						
SP322A45	Chart Support for RITIS Vehicle Probe Project FY 2021	\$0	\$464,000	\$87,000	\$29,000	\$580,000
SP322C45						
SP322A46	CHART Reporting Tool – Phase 5	\$0	\$200,000	\$37,500	\$12,500	\$250,000
SP322C46						
SP322A47	TSMO Performance Management and Implementation Support CY 2021-2022 (Year 2)	\$0	\$260,000	\$48,750	\$16,250	\$325,000
SP322C47						
SP422A41	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 1	\$0	\$465,292	\$87,242	\$29,081	\$581,615
SP422C41						
SP422A42	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 2	\$0	\$507,841	\$95,220	\$31,740	\$634,801
SP422C42						
SP422A43	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 3	\$0	\$2,870,056	\$538,135	\$179,378	\$3,587,570
SP422C43						
SP422A44	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 4	\$0	\$1,332,310	\$249,808	\$83,269	\$1,665,387
SP422C44						
SP422A45	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 5	\$0	\$1,184,615	\$222,115	\$74,038	\$1,480,769
SP422C45						
SP422A46	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 6	\$0	\$843,497	\$158,156	\$52,719	\$1,054,371
SP422C46						
SP422A47	Congestion Mgmt and Spot & Safety Improvement Project Development – Planning & Preliminary Studies; District 7	\$0	\$1,224,648	\$229,622	\$77,541	\$1,531,810
SP422C47						
	SUB TOTAL	\$2,973,999	\$15,435,306	\$3,463,007	\$1,265,850	\$23,138,161
VI. SPECIAL STUDIES						
SP122A43	Preliminary Studies	\$0	\$390,737	\$73,263	\$24,421	\$488,421
SP122C43						
SP122A44	Bicycle, Pedestrian, and Safety Planning	\$0	\$791,828	\$148,468	\$49,489	\$989,785
SP122C44						
SP122A46	Cultural Resources Research and Public Outreach	\$0	\$516,069	\$96,763	\$38,254	\$651,087
SP122C46						
SP122A4C	System Preservation Proj. & Commitments Process Improvement	\$0	\$271,772	\$50,957	\$16,986	\$339,715
SP122C4C						
SP122A4E	Project Planning Program Support	\$0	\$346,167	\$64,906	\$21,635	\$432,709
SP122C4E						

A. Areawide Planning Studies (APS)

SP122A4F	Development Report Review (APS)	\$0	\$198,876	\$37,289	\$12,430	\$248,595
SP122C4F						
SP122A4G	MDOT/SHA Special Studies (APS)	\$0	\$529,752	\$99,329	\$33,110	\$662,190
SP122C4G						
SP122A4H	Mobility and Reliability Studies (APS)	\$0	\$753,752	\$141,329	\$122,110	\$1,017,190
SP122C4H						
SP122A4A	Streamlined and Process Implementation	\$0	\$133,475	\$25,027	\$8,342	\$166,843
SP122C4A						
SP122A4J	Climate Risk & Resiliency	\$0	\$359,619	\$67,428	\$22,476	\$449,523
SP122C4J						
SP222A41	Installation and Densification of Horizontal and Vertical	\$0	\$241,428	\$45,268	\$16,089	\$302,785
SP222C41	Survey Control					
SP522A45	GISHydroWEB	\$0	\$0	\$0	\$58,719	\$58,719
SP222A4E	Climate Change Design Guidance and Implementation	\$0	\$37,438	\$7,020	\$2,340	\$46,798
SP222C4E						
SP522A4A	Environmental Toolkit Business Services	\$0	\$38,955	\$7,304	\$2,435	\$48,694
SP522C4A						
SP222A4C	Stream Restoration Project Effectiveness Study for	\$0	\$61,950	\$11,616	\$3,872	\$77,438
SP222C4C	Design Guidelines Development					
SP322A49	Commercial Vehicle Information Systems & Networks	\$0	\$292,800	\$54,900	\$18,300	\$366,000
SP322C49	(CVISN) Systems Architect					
SP322A48	Virtual Weigh Station (VWS) Support – Phase V	\$0	\$132,632	\$24,869	\$8,290	\$165,790
SP322C48						
	SUB TOTAL	\$0	\$5,097,250	\$955,734	\$459,297	\$6,512,282
	TOTAL PART I - PLANNING	\$9,719,000	\$25,846,937	\$6,410,072	\$3,276,203	\$45,252,213

APPENDIX F – Federal Funding Sources

Federal-aid Highway Funding

1. **Appalachian Development Highway System (ADHS)** – The Appalachian Development Highway System Program continues funding for the construction of the Appalachian corridor highways in 13 states to promote economic development and to establish a State-Federal framework to meet the needs of the region.
2. **Congestion Mitigation and Air Quality (CMAQ)** – The Congestion Mitigation and Air Quality Improvement Program provides funding for projects and programs in air quality nonattainment and maintenance areas for ozone, carbon monoxide (CO), and particulate matter (PM-10, PM-2.5) which reduce transportation related emissions.
3. **Surface Transportation Program (STP)** – The STP provides flexible funding that may be used by states and localities for projects on any Federal-aid highway, including the NHS, bridge projects on any public road, transit capital projects, and intracity and intercity bus terminals and facilities.
4. **National Highway Performance Program (NHPP)** – The NHPP provides funding on roadways designated on the National Highway System supporting progress toward the achievement of national performance goals for improving infrastructure condition, safety, congestion reduction, system reliability, or freight movement.
5. **Highway Safety Improvement Program (HSIP)** – The HSIP provides funding to achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
6. **State Planning and Research (SPR)** – The SPR provides funding for the planning of future roads highway programs and local public transportation systems and the planning of the financing of such programs and systems, including metropolitan and statewide planning.
7. **Transportation Alternatives Program (TAP)** – The TAP funding is for activities considered under the Transportation Alternatives which include the construction, planning, and design of pedestrian and trail facilities; safety-related infrastructure; and Safe Routes to School (SRTS) program. Other project categories include historic preservation and rehabilitation of historic transportation facilities; vegetation management practices, environmental mitigation activities, projects that reduce vehicle-caused wildlife mortality, and the recreational trails program.
8. **Special Federal Appropriations (SFA)** – The SFA are a combination of Congressionally Designated Projects or Discretionary Programs. These are not formula based funding and allocated to a particular project through designation or competitive selection.

Federal-aid Transit Funding

1. **Planning Programs, Sections 5303, 5304, 5305** – Provides planning funds for State Departments of Transportation for Statewide Planning.
2. **Transit Urbanized Area Formula Program, Section 5307** – Formula funding program that provides grants for Urbanized Areas (UZA) for public transportation capital

- investments (and operating expenses in areas under 200,000 population) from the Mass Transit Account of the Highway Trust Fund.
3. **Bus Facility and Bus Programs, Sections 5309 and 5318** – Provides funding for the acquisition of buses for fleet/service expansion and bus related facilities such as maintenance facilities, bus rebuilds, and passenger shelters. These funds are allocated to specific projects at the discretion of Congress.
 4. **Capital Investment Grants “New Starts,” Section 5309** – This Section 5309 program provides funding primarily for Major Fixed Guideway Capital Investment projects (New Starts) and Capital Investment Grants of \$75 million or less (Small Starts).
 5. **Enhanced Mobility of Seniors and Individuals with Disabilities, Section 5310** – Provides 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. The program aims to improve mobility for seniors and individuals with disabilities by removing barriers to transportation service and expanding transportation mobility options.
 6. **Transit Funds for Areas Other Than Urbanized Areas, Section 5311** – Provides capital and operating assistance for rural and small urban public transportation systems.
 7. **Congestion Mitigation and Air Quality (CMAQ)** – The Congestion Mitigation and Air Quality Improvement Program provides funding for projects and programs in air quality nonattainment and maintenance areas for ozone, carbon monoxide (CO), and particulate matter (PM-10, PM-2.5) which reduce transportation related emissions.
 8. **Preventive Maintenance Project Type** – Provides funding for preventive maintenance based on grant programs that have a capital component.
 9. **State of Good Repair, Section 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**.
 10. **Bus and Bus Facilities Formula, Section 5339** – Provides funding to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities including technological changes or innovations to modify low or no emission vehicles or facilities.

Federal-aid Phases

Project Planning (PP) – This funding is the initial phase of project development where the need and feasibility of a project is documented and scoping is broad and involves the public.

Preliminary Engineering and Final Design (PE/FD) – This funding provides for projects including preliminary and final design. These funds involve detailed environmental studies and engineering to obtain NEPA are under preliminary design. Design activities following preliminary design involve the preparation of final construction plans and are under final design.

Right-of-Way (RW) – This funding provides for acquisition of necessary rights-of-way in which a project will be constructed or to protect corridors for future project construction.

Construction (CO) – This funding provides for the building and implementation of the designed facility and may include costs associated with relocating utilities as well.

Other - This funding provides for transit project expenditures. It also can provide for a variety of non-capital highway project-related expenditures, most often associated with ongoing technology, intelligent transportation systems, and monitoring.

Total – This is the sum of any funding shown for preliminary engineering and final design, right-of-way, construction, and other funding.

Federal-Aid – This is the amount of the total that will utilize federal funding.

APPENDIX G - GLOSSARY

ACRONYM	DEFINITION
AC	Advance Construction
AR	Attainment Report
BRAC	Defense Base Closure and Realignment Commission
BRTB	Baltimore Regional Transportation Board
CAMPO	Cumberland Metropolitan Planning Organization
CAV	Connected and Autonomous Vehicle
C-SMMPO	Calvert - St. Mary's Metropolitan Planning Organization
CTP	Consolidated Transportation Program
D&E	Development and Evaluation Program
ESD	Environmental Site Design
EV	Electric vehicle
EVIC	Electric Vehicle Infrastructure Council
FMIS	Fiscal Management Information Systems
FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FLHP	Federal Lands Highway Program
FTA	Federal Transit Administration
GGRA	Greenhouse Gases Reduction Act
GHG	Greenhouse Gases
HEPMPO	Hagerstown-Eastern Panhandle Metropolitan Planning Organization
HMIS	Highway Management Information System
HNI	Highway Needs Inventory
HUR	Highway User Revenues
ITS	Intelligent Transportation Systems
LOTS	Locally Operated Transit System
L RTP	Long Range Transportation Plan
MAA	Maryland Aviation Administration
MAP-21	Moving Ahead for Progress in the 21st Century Act
MDOT	Maryland Department of Transportation
MDP	Maryland Department of Planning
MdTA	Maryland Transportation Authority
MPA	Maryland Port Administration
MPO	Metropolitan Planning Organization
MTA	Maryland Transit Administration
MTP	Maryland Transportation Plan
MVA	Motor Vehicle Administration
MVEB	Motor vehicle emissions budgets
NAAQS	National Ambient Air Quality Standards
OA	Obligation Authority
PIF	Project Information Form
PM	Particulate Matter
RIPD	Regional and Intermodal Planning Division
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users

SIP	State Implementation Plan
SHA	State Highway Administration
SHSP	Strategic Highway Safety Plan
SRT	State Report on Transportation
STIP	Statewide Transportation Improvement Program
S/WMPO	Salisbury/Wicomico Area Metropolitan Planning Organization
TAM	Transportation Association of Maryland
TDM	Transportation Demand
TIP	Transportation Improvement Program
TMDL	Total Maximum Daily Load
TMS	Traffic Monitoring System
TOD	Transit Oriented Development
Tour	MDOT's Annual Consultation Meetings – Tour of all counties
TPB	National Capital Regional Transportation Planning Board
TSO	Transportation Secretary's Office
TTF	Transportation Trust Fund
US EPA	United States Environmental Protection Agency
WILMAPCO	Wilmington Area Planning Council
WIP	Watershed Implementation Plans
WMATA	Washington Metropolitan Area Transit Authority

APPENDIX H – List of Urban Projects in TIPs

The Statewide Transportation Improvement Program (STIP) contains Statewide and Rural federally funded projects that can be found within the following 7 Metropolitan Planning Organizations (See Section 2 for MPO TIPs):

- Baltimore Metropolitan Planning Organization includes projects found in the following areas: Carroll, Howard, Anne Arundel, Harford Counties, and Baltimore City.
- Washington Metropolitan Planning Organization includes projects found in the following areas: Frederick, Montgomery, Prince George's and Charles Counties.
- Wilmington Metropolitan Planning Organization includes projects found in the following area: Cecil County.
- Calvert-St. Mary's Metropolitan Planning Organization includes projects found in the following area: Calvert, St. Mary's County.
- Cumberland Metropolitan Planning Organization includes projects found in the following area: Allegany County.
- Hagerstown Metropolitan Planning Organization includes projects found in the following area: Washington County.
- Salisbury Wicomico Metropolitan Planning Organization includes projects found in the following area: Wicomico County.

Projects Found Within Most Recent TIPs

BRTB 2022-2025

https://www.baltometro.org/sites/default/files/bmc_documents/general/transportation/tip/22-25/22-25TIP.pdf

NUMBER	NAME	PAGE	TIP Years
11-1801-42	Hanover Road Corridor Improvement New Ridge Road Ridge Road	106	2022-2025
11-2102-41	MD 2: US 50 to Baltimore Annapolis Boulevard US 50 MD 648	108	2022-2025
11-2103-41	MD 3: Saint Stephens Church Road to MD 175 Saint Stephens Church Rd MD 175/Millersville Rd	110	2022-2025
11-2104-41	MD 214: MD 468 to east of Loch Haven Road MD 468 east of Loch Haven Rd	112	2022-2025
11-1103-13	Furnace Avenue Bridge over Deep Run	114	2022-2025
11-1208-13	Harwood Road Bridge over Stocketts Run	116	2022-2025
11-1402-13	Magothy Bridge Road Bridge over Magothy River	118	2022-2025
11-1403-13	O'Connor Road Bridge over Deep Run	120	2022-2025
11-1601-19	McKendree Road Culvert over Lyons Creek	122	2022-2025
11-1602-13	Polling House Road Bridge over Rock Branch	124	2022-2025
11-2105-13	Hanover Road Bridge over Deep Run	126	2022-2025
11-2106-13	Conway Road Bridge over Little Patuxent River	128	2022-2025
11-2107-13	Jacobs Road Bridge over Severn Run	130	2022-2025
11-2101-66	Parole Transportation Center	132	2022-2025
12-1218-07	Citywide Traffic Signals, Intelligent Transportation System and Safety Improvements	134	2022-2025
12-1701-04	Transportation Management Center Upgrade	136	2022-2025
12-2102-03	Greenway Middle Branch Phase 2 Light Street Alluvion Street	138	2022-2025
12-1215-13	Perring Parkway Ramp over Herring Run	140	2022-2025
12-1216-13	Sisson Street Bridge over CSX Railroad	142	2022-2025
12-1403-13	Wilkens Avenue Bridge Over Gwynns Falls	144	2022-2025
12-1404-11	Belair Road Complete Streets	146	2022-2025

12-1602-13	Remington Avenue Bridge over Stony Run	148	2022-2025
12-1603-13	Radecke Avenue and Sinclair Lane over Moores Run	150	2022-2025
12-1604-13	I-83 Concrete Deck Mill and Resurface	152	2022-2025
12-1605-13	Moravia Road Ramp Bridge over Pulaski Highway	154	2022-2025
12-1706-11	MLK Boulevard and Howard Street Intersection Improvements	156	2022-2025
12-1801-13	Monroe Street Ramp over CSX and Russell Street over CSX	158	2022-2025
12-2001-11	25th Street Rehabilitation from Greenmount Avenue to Kirk Avenue Greenmount Avenue Kirk Avenue	160	2022-2025
12-2002-13	41st Street over I-83, MTA Light Rail Tracks, and Jones Falls 400 ft West of Buena Vista Ave 200 ft East of Girard Ave	162	2022-2025
12-2003-19	Citywide Asset Management	164	2022-2025
12-2007-11	Fremont Avenue Rehabilitation from Lafayette Avenue to Presstman Street Lafayette Avenue Presstman Street	166	2022-2025
12-2008-13	Hanover Street Over CSX Bridge over CSX Tracks	168	2022-2025
12-2010-11	Madison Street Rehabilitation from North Milton Avenue to Edison Highway N Milton Avenue Edison Highway	170	2022-2025
12-2011-11	Park Heights Avenue from West Rogers Avenue to Strathmore Avenue W Rogers Avenue Strathmore Avenue	172	2022-2025
12-2012-11	Patapsco Avenue from Magnolia Avenue to Patapsco River Bridge Magnolia Avenue Patapsco River Bridge	174	2022-2025
12-2013-11	Pennington Avenue Rehabilitation from Birch Street to East Ordnance Road	176	2022-2025
12-2106-13	Harford Road Bridge Over CSX Clough Street 100 feet north	178	2022-2025
12-2201-64	East-West Bus Corridor Edmondson Ave at City/County Line Eastern Ave at City/County Line	180	2022-2025
12-1901-99	Capital Project Delivery Services	182	2022-2025
12-2014-99	Citywide Transportation Studies	184	2022-2025
13-0001-13	Dogwood Road Bridge No. B-0072 Over Dogwood Run	186	2022-2025
13-0803-13	Mohrs Lane Bridge No. B-0143 over CSX Railroad	188	2022-2025

13-1012-13	Hammonds Ferry Road Bridge No. B-0100 over CSX Railroad	190	2022-2025
13-1105-13	Lansdowne Boulevard Bridge No. B-0113 over CSX Railroad	192	2022-2025
13-1107-13	Piney Grove Road Bridge No. B-0140 over CSX railroad	194	2022-2025
13-1108-13	Peninsula Expressway Bridge No. B-0119 over CSX Railroad	196	2022-2025
13-1206-13	Sparks Road Bridge No. B-0018 over Gunpowder Falls	198	2022-2025
13-1208-13	Golden Ring Road Bridge No. B-0110 over Stemmers Run	200	2022-2025
13-1209-13	Rolling Road Bridge No. B-0358 over Branch of Dead Run	202	2022-2025
13-1701-13	Rossville Boulevard Bridge No. B-0132 over Amtrak & Orems Road	204	2022-2025
13-8901-14	Bridge Inspection Program	206	2022-2025
14-1102-13	Shepherds Mill Road Bridge over Little Pipe Creek	208	2022-2025
14-1103-13	Stone Chapel Road Bridge over Little Pipe Creek	210	2022-2025
14-1601-13	Babylon Road Bridge over Silver Run	212	2022-2025
14-1602-13	Gaither Road Bridge over South Branch Patapsco River	214	2022-2025
14-1603-13	McKinstry's Mill Road Bridge over Sam's Creek	216	2022-2025
14-1802-13	Hughes Shop Road Bridge over Bear Branch	218	2022-2025
14-2101-13	Old Kays Mill Road Culvert over Beaver Run	220	2022-2025
14-2102-13	Brown Road Culvert over Roaring Run	222	2022-2025
14-2103-13	McKinstry's Mill Road over Little Pipe Creek	224	2022-2025
14-9401-14	Bridge Inspection Program	226	2022-2025
15-1001-13	Abingdon Road Bridge #169 over CSX Railroad	228	2022-2025
15-1501-13	Stafford Road Bridge #24 over Deer Creek	230	2022-2025
15-1601-13	Glenville Road Bridge #30 over Mill Brook	232	2022-2025
15-2001-13	Grier Nursery Road Bridge #43 over Deer Creek	234	2022-2025
15-2002-13	Hookers Mill Road Bridge #13 over Bynum Run	236	2022-2025
15-2101-13	Madonna Road Bridge #113 over Deer Creek	238	2022-2025
15-2102-13	St. Clair Bridge Road Bridge #100 over Deer Creek	240	2022-2025
15-2103-13	Stafford Road Bridge #162 over Buck Branch	242	2022-2025
15-2104-13	Trappe Church Road Bridge #161 over Hollands Branch	244	2022-2025

15-2201-13	Moores Road Bridge #78 over a tributary to Gunpowder Falls	246	2022-2025
15-2202-13	Hess Road Bridge #81 over Yellow Branch	248	2022-2025
15-9411-14	Bridge Inspection Program	250	2022-2025
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6015	Capital Crescent Trail	A-309	2021-2024
6017	Seven Locks Bikeway & Safety Improvements	A-311	2021-2024
6018	East Gude Drive Roadway Improvements	A-313	2021-2024
6019	Seminary Road Intersection Improvement	A-315	2021-2024
6020	Clarksburg Transportation Connections	A-317	2021-2024
6063	Frederick Road Bike Path: Stringtown to Milestone Manor	A-319	2021-2024
6065	Traffic Signals	A-321	2021-2024
6364	Transportation Improvements for Schools	A-323	2021-2024
6365	Bicycle and Pedestrian Priority Area Improvements	A-325	2021-2024
6584	Mouth of Monocacy Road Bridge Replacement	A-327	2021-2024
6608	Dennis Avenue Bridge Replacement M-0194	A-329	2021-2024
6616	Electric Bus Grants	A-331	2021-2024
6667	Zion Road Bridge M-0121 over Hawlings River	A-333	2021-2024
3114	Contee Road	A-335	2021-2024

3132	Hill Road III	A-337	2021-2024
5400	Brandywine Road Bridge Replacement	A-339	2021-2024
5401	Bridge Replacement, Federal Aid	A-341	2021-2024
5402	Bridge Repair and Replacement 2	A-343	2021-2024
5609	Curb and Road rehabilitation II	A-345	2021-2024
5806	Bridge Replacement - Livingston Road	A-347	2021-2024
5808	Sunnyside Avenue Bridge Replacement	A-349	2021-2024
6003	Green/Complete Street Improvements	A-351	2021-2024
6012	Modification of ADA Rights of Way County-Wide	A-353	2021-2024
6013	Bridge Replacement - Temple Hill Road	A-355	2021-2024
6023	County Revitalization & Restoration 2	A-357	2021-2024
6024	Developer Contribution Projects	A-359	2021-2024
6026	School Access Project	A-361	2021-2024
6367	Addison Road I	A-363	2021-2024
6369	Cherry Hill Road III	A-365	2021-2024
6370	Pedestrian Safety Improvements	A-367	2021-2024
6371	Planning and site acquisition 2	A-369	2021-2024
6372	Street Lights and Traffic Signals 2	A-371	2021-2024
6373	Traffic Congestion Improvements	A-373	2021-2024
6374	Transportation Enhancements 2	A-375	2021-2024
6375	Bus Mass Transit/ Metro Access 2	A-377	2021-2024
6381	Transit Oriented Development Infrastructure	A-379	2021-2024
6668	Harry S. Truman Drive - replacement of bridge P-0581	A-381	2021-2024
6684	Molly Berry Road Bridge	A-383	2021-2024
6685	Bowie Road Culvert	A-385	2021-2024

APPENDIX I – MTA Rural Projects (Statewide)
(Not in TIPs)

2022 Statewide Transportation Improvement Program

MARYLAND TRANSIT ADMINISTRATION

STIP ID: MTA-2019-01

Capital Project Number(s): 0210

Project Title: Capital and Operating Program Assistance to Private Non-profit Agencies for the Transportation of Elderly and Persons with Disabilities.

Description:

An ongoing program to provide private non-profit agencies for the transportation of elderly and persons with disabilities.

Justification:

This program 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.

Section 5310 Formula Program

Phase	Previous Obligations		Planned Obligations								Overmatch	Project Totals
	Previous Federal Funds	Previous Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	FY 2024 Federal Funds	FY 2024 Matching Funds	FY 2025 Federal Funds	FY 2025 Matching Funds	Additional Non-Federal Funds	Estimated Project Total
PP												\$ -
PE												\$ -
ROW												\$ -
CON												\$ -
OTH	\$ -	\$ -	\$ 1,105	\$ 478	\$ -	\$ -	\$ 1,105	\$ 478	\$ -	\$ -		\$ 2,688
Totals	\$ -	\$ -	\$ 1,105	\$ 478	\$ -	\$ -	\$ 1,105	\$ 478	\$ -	\$ -	\$ -	\$ 2,688

2022 Statewide Transportation Improvement Program

MARYLAND TRANSIT ADMINISTRATION

STIP ID: MTA-2019-02

Capital Project Number(s): 0218

Project Title: Capital and Operating Assistance to Rural Transit Systems

Description:

Section 5311 Capital and Operating Assistance provided to transit systems located outside of urbanized areas. This is an ongoing project.

Justification:

To fulfill a demonstrated need for general purpose transportation for persons living or traveling in rural areas.

Section 5311 Formula Program

Phase	Previous Obligations		Planned Obligations								Overmatch	Project Totals
	Previous Federal Funds	Previous Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	FY 2024 Federal Funds	FY 2024 Matching Funds	FY 2025 Federal Funds	FY 2025 Matching Funds	Additional Non-Federal Funds	Estimated Project Total
PP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ROW	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CON	\$ -	\$ -	\$ 6,136	\$ 419	\$ 6,136	\$ 419	\$ 6,136	\$ 419	\$ 6,136	\$ 419	\$ -	\$ 26,220
OTH	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals	\$ -	\$ -	\$ 6,136	\$ 419	\$ 6,136	\$ 419	\$ 6,136	\$ 419	\$ 6,136	\$ 419	\$ -	\$ 26,220

2022 Statewide Transportation Improvement Program

MARYLAND TRANSIT ADMINISTRATION

STIP ID: MTA-2019-14

Capital Project Number(s): 1442, 1710, 1729

Project Title: 5304 STIP

Description:

Development of Transit Development Plans for Locally Operated Transit Systems and Regional Transit Planning efforts throughout the state of Maryland.

Justification:

These plans are used by individual LOTS and MDOT MTA to enhance transit. A completed TDP serves as a guide for the local transit system, providing a roadmap for implementing service and/or organizational changes, improvements, and/or potential expansion during the five-year period.

Section 5304 Formula Program

Phase	Previous Obligations		Planned Obligations								Overmatch	Project Totals
	Previous Federal Funds	Previous Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	FY 2024 Federal Funds	FY 2024 Matching Funds	FY 2025 Federal Funds	FY 2025 Matching Funds	Additional Non-Federal Funds	Estimated Project Total
PP	\$ -	\$ -	\$ 1,444	\$ 431	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,875
PE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ROW	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CON	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTH	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals	\$ -	\$ -	\$ 1,444	\$ 431	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,875

2022 Statewide Transportation Improvement Program

MARYLAND TRANSIT ADMINISTRATION

STIP ID: MTA-2019-03

Capital Project Number(s): 1455

Project Title: Bus and Bus Facilities for Rural Areas

Description:

Provide Capital funding to replace, rehabilitate, and purchase buses and related equipment to construct bus related facilities.

Justification:

To fulfill a demonstrated need for general purpose transportation for persons living or traveling in rural areas.

Section 5339 Formula Program

Phase	Previous Obligations		Planned Obligations								Overmatch	Project Totals
	Previous Federal Funds	Previous Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	FY 2024 Federal Funds	FY 2024 Matching Funds	FY 2025 Federal Funds	FY 2025 Matching Funds	Additional Non-Federal Funds	Estimated Project Total
PP												\$ -
PE												\$ -
ROW												\$ -
CON	\$ -	\$ -	\$ 297	\$ 74	\$ 297	\$ 74	\$ 297	\$ 74	\$ 297	\$ 74		\$ 15,271
OTH	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Totals	\$ -	\$ -	\$ 297	\$ 74	\$ 297	\$ 74	\$ 297	\$ 74	\$ 297	\$ 74	\$ -	\$ 15,271

APPENDIX J – SHA Rural Projects (Statewide)

Grouped Projects Detailed Descriptions

Areawide Bridge Rehabilitation

An ongoing program to provide upgrades to and maintenance of structures on MDOT SHA's highway network. These non-capacity improvements may include but are not limited to structural replacement (less than full bridge replacement), deck rehabilitation/replacement, substructure rehabilitation/replacement, superstructure rehabilitation/replacement, parapet reconstruction, cleaning and painting, and general maintenance. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

MDOT SHA Funds 80

Improvements *Statewide* – bridge inspection, cleaning, deck overlay, deck replacement/rehabilitation, painting (spot, comprehensive), parapet modification/reconstruction, pedestrian facilities completed as part of a bridge project, substructure replacement/rehabilitation, superstructure replacement/rehabilitation

Areawide Congestion Management

An ongoing program to provide traffic control, management, and monitoring on MDOT SHA's highway network. These improvements may include but are not limited to deployment of variable message signs, video for traffic management, i.e., CCTV, traffic management detectors, signal systemization and remote timing, permanent congestion monitoring systems, intelligent transportation systems, and the development of park-and-ride facilities. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

MDOT SHA Funds 81, 86

Improvements *Statewide* – intelligent transportation system deployment, park-and-ride facilities (design, construction, expansion, lighting), permanent congestion monitoring systems, signal systemization, remote timing, traffic management detectors, traffic management video/CCTV, variable message signing

Areawide Environmental Projects

An ongoing program to provide environmental and aesthetic improvements on MDOT SHA's highway network. These non-capacity improvements may include but are not limited to noise abatement, wetland management and rehabilitation, reforestation, landscaping, scenic beautification, and bicycle and pedestrian facilities. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

In addition, in those regions outside the Baltimore and Washington metropolitan planning areas, this ongoing program includes Transportation Alternatives, Safe Routes to School, and Recreational Trails program projects that expand travel choices and enhance user experience by improving the cultural, historic, and environmental aspects of transportation infrastructure. These improvements may include but are not limited to bicycle and pedestrian facilities, rehabilitation of historic transportation facilities, conversion and use of abandoned railroad corridors, archeological activities related to transportation impacts, and highway runoff-related pollution mitigation.

MDOT SHA Funds 24, 25*, 26, 49, 74, 82, 88

Improvements

Statewide – ADA improvements; bicycle/pedestrian facilities; drainage improvements (areas of flooding, road closures); environmental compliance; landscaping; noise abatement; noise barrier and berm construction, retrofitting, and rehabilitation; trail facilities; reforestation and tree planting; rest areas; scenic beautification; total maximum daily load (TMDL) for stormwater management; wildflower seeding

Only outside the Baltimore and Washington metropolitan planning areas – Transportation Alternatives, Safe Routes to School, and Recreational Trails program improvements including bicycle/pedestrian improvements, conversion/use of abandoned railroad corridors, highway runoff-related water pollution mitigation, historic transportation facility rehabilitation, landscaping, transportation-related archeological activities, and urban greenways

* as noted on the next page, MDOT SHA fund 25 improvements, which cover federal Transportation Alternatives, Safe Routes to School, and Recreational Trails program projects, are programmed in a separate grouped project, Areawide Transportation Alternatives, in only the Baltimore and Washington metropolitan planning areas; in the remainder of Maryland, these projects are included in the Areawide Environmental Projects grouped project

Areawide Transportation Alternatives*

In only the Baltimore and Washington metropolitan planning areas, this ongoing program includes Transportation Alternatives, Safe Routes to School, and Recreational Trails program projects that expand travel choice and enhance user experience by improving the cultural, historic, and environmental aspects of transportation infrastructure. These improvements may include but are not limited to bicycle and pedestrian facilities, rehabilitation of historic transportation facilities, conversion and use of abandoned railroad corridors, archeological activities related to transportation impacts, and highway runoff-related pollution mitigation. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

MDOT SHA Funds 25

Improvements *Only within the Baltimore and Washington metropolitan planning areas* – Transportation Alternatives, Safe Routes to School, and Recreational Trails programs improvements including bicycle/pedestrian improvements, conversion/use of abandoned railroad corridors, highway runoff-related water pollution mitigation, historic transportation facility rehabilitation, landscaping, transportation-related archeological activities, and urban greenways

Areawide Resurfacing and Rehabilitation

An ongoing program to provide periodic resurfacing and upgrading of auxiliary features on MDOT SHA's highway network. These non-capacity improvements may include but are not limited to milling, patching, sealing, and resurfacing of existing deteriorated MDOT SHA highways; ADA upgrades; guardrail installation; sidewalk construction; shared-use path construction; and pavement markings/striping. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

MDOT SHA Funds 77

Improvements *Statewide* – ADA improvements, concrete patching, guardrail improvements, joint sealing, milling, patchwork, pavement markings/striping, resurfacing, shared-use paths, sidewalk, striping

Areawide Safety and Spot Improvements

An ongoing program to provide localized improvements to address safety and/or operational issues on MDOT SHA's highway network. These improvements may include but are not limited to bypass lanes, acceleration and deceleration lanes, turn lanes, railroad crossings, intersection realignment, geometric improvements, safety improvements, pavement markings/stripping, ADA upgrades, guardrails, roundabouts, slope repairs, drainage improvements, and joint sealing. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

MDOT SHA Funds 23, 27, 30, 32, 33, 67, 75, 76, 78, 79, 85, 87

Improvements *Statewide* – acceleration/deceleration lanes, ADA improvements, bridge inspection, bypass lanes, crash prevention, drainage improvements, geometric improvements, guardrail improvements, intersection capacity improvements, intersection realignment, joint sealing, major storm damage repairs, pavement markings/stripping, railroad crossings, ramp modifications, rest areas, roundabouts, safety improvements, school access improvements, sinkhole repairs, slope repairs, truck weigh stations, turn lanes, unforeseen roadway/bridge emergency repairs

Areawide Urban Reconstruction

An ongoing program to provide roadway rehabilitation in municipalities and urban areas on MDOT SHA highways. These non-capacity improvements may include but are not limited to drainage improvements, curb and gutter improvements, pavement milling and resurfacing, sidewalks, shared-use paths, signage, pavement markings/stripping, and lighting improvements. In addition, this program may include related administrative activities necessary to ensure delivery of these improvements.

MDOT SHA Funds 84

Improvements *Statewide* – ADA improvements, bicycle and pedestrian improvements, curb and gutter improvements, drainage reconstruction, landscaping, lighting, pavement markings/stripping, pavement reconstruction (milling, resurfacing), shared-use paths, sidewalks, signage, street furniture, urban amenity improvements

MDOT SHA Non-Metropolitan Regionally Significant Projects

STIP # AR1604
Project Keyser’s Ridge Business Park Local Access Road
Location Keyser’s Ridge Business Park, Keyser’s Ridge
Responsible Agency Garrett County Department of Economic Development
Description Construction of local road providing access to Keyser’s Ridge Business Park from US 40AL.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	ARC LAR	511							
RW									
CO	ARC LAR		1,569					1,569	
<i>Subtotal</i>	<i>Local</i>								
	<i>State</i>								
	<i>Federal</i>	511	1,569					1,569	
Total		511	1,569					1,569	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 2,080

STIP # AR1901
Project Glendale Road Business Park Local Access Road
Location Glendale Road Business Park, Oakland
Responsible Agency Garrett County Department of Economic Development
Description Construction of local road providing access to Glendale Road Business Park from US 219.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	Local	327							
RW	ARC LAR	173							
CO	ARC LAR		2,115					2,115	
<i>Subtotal</i>	<i>Local</i>	327							
	<i>State</i>								
	<i>Federal</i>	173	2,115					2,115	
Total		500	2,115					2,115	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 2,615

STIP # AR1902
Project Do the Loop
Location Eastern Continental Divide Loop Trail (Otto Lane - New Germany), Grantsville
Responsible Agency Garrett County Department of Economic Development
Description Construction of trail segment.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO	ARC AD	80	20					20	
<i>Subtotal</i>	<i>State</i>								
	<i>Federal</i>	80	20					20	
Total								20	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 100†

† does not include non-transportation funding sources (MHAA, County matching funds) also secured by the responsible agency; Recreational Trails Program funding secured for this project is programmed as part of Areawide Environmental Projects (RU Environment); total estimated project cost including non-transportation funding sources is \$280,000

STIP # AR2001
Project Grantsville Local Access Road
Location South of Hemlock Drive, Grantsville
Responsible Agency Garrett County Department of Economic Development
Description Construction of local road providing access from Hemlock Drive to parcel 236, adjacent to MD 669.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	ARC LAR	190							
RW	ARC LAR	180							
CO			630					630	
<i>Subtotal</i>	<i>State</i>								
	<i>Federal</i>	370	630					630	
Total		370	630					630	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,000

STIP # AT020F
Project TSMO Education and Outreach
Location Statewide
Responsible Agency MDOT SHA
Description MDOT SHA internal education program about transportation systems and operations (TSMO) program and latest TSMO systems and technology.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		15					15	
	STIC		60					60	
PE/FD									
RW									
CO									
Subtotal	State		15					15	
	Federal		60					60	
Total			75					75	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 75

STIP # AW139W
Project Statewide Bridge Inspection
Location Statewide
Responsible Agency MDOT SHA
Description Biennial bridge inspection program of MDOT SHA bridges, including materials, labor, and equipment necessary to conduct inspections.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025
			FY 2022	FY 2023	FY 2024	FY 2025			STIP Total
PP	State		477	478				955	
	NHPP		6,768	6,786				13,554	
	STBG		2,288	2,294				4,582	
PE/FD									
RW									
CO									
Subtotal	State		477	478				955	
	Federal		9,056	9,080				18,136	
Total			9,533	9,558				19,091	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 19,000

STIP # AW2696
Project OMT Pavement Engineering Procedural Enhancements
Location Statewide
Responsible Agency MDOT SHA
Description Support for MDOT SHA's work to develop and update pavement specifications, standards, and guidelines.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	State		5					5	
	STBG		95					95	
<i>Subtotal</i>	<i>State</i>		5					5	
	<i>Federal</i>		95					95	
Total			100					100	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 100

STIP # AW8192
Project Statewide Freight Planning
Location Statewide
Responsible Agency MDOT SHA
Description Pre-planning activities of freight programs, including analysis of and research and development toward freight transportation, intelligent transportation systems, and overnight truck parking.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State	300							
	NHFP	1,400	200	200				400	
PE/FD									
RW									
CO									
Subtotal	State	300							
	Federal	1,400	200	200				400	
Total		1,700						400	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 2,100

STIP # AX124F
Project CHART TSMO Planning Activities
Location Statewide
Responsible Agency MDOT SHA
Description Planning activities and construction operations development for TSMO deployment in multiple corridors in Maryland.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State	113	87					87	
	NHFP	452	348					348	
PE/FD									
RW									
CO									
Subtotal	State	113	87					87	
	Federal	452	348					348	
Total		565	435					435	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,000

STIP # AX2795
Project OMT Slope Investigations for Repair and Preventative Maintenance
Location Statewide
Responsible Agency MDOT SHA
Description Support for MDOT SHA's work to provide technical support to MDOT SHA offices for roadway stability investigations.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	State		10					10	
	STBG		190					190	
<i>Subtotal</i>	State		10					10	
	Federal		190					190	
Total			200					200	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 200

STIP # AX7455
Project OMT Pavement Program Development
Location Statewide
Responsible Agency MDOT SHA
Description Support for MDOT SHA's work to produce system preservation and pavement optimization analysis reports and to inform FHWA and MDOT SHA transportation asset management decision-making.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	State		120					120	
	STBG		2,280					2,280	
Subtotal	State		120					120	
	Federal		2,280					2,280	
Total			2,400					2,400	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 2,400

STIP # AZ0234
Project OMT Geotechnical Asset Management
Location Statewide
Responsible Agency MDOT SHA
Description Support for maintenance of MDOT SHA’s geotechnical asset inventory, condition data, and risk-based strategy information in a GIS data warehouse including highway cut slopes, embankments, ground improvements, and subsurface exploration data.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	State		25					25	
	STBG		475					475	
Subtotal	State		25					25	
	Federal		475					475	
Total			500					500	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 500

STIP # AZ1071
Project OMT Pavement Engineering and System Preservation Planning
Location Statewide
Responsible Agency MDOT SHA
Description Support for MDOT SHA field data collection, project level treatment selection, and pavement design.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	State		88					88	
	STBG		1,662					1,662	
<i>Subtotal</i>	State		88					88	
	Federal		1,662					1,662	
Total			1,750					1,750	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,800

STIP # AZ1091
Project OMT Pavement Network Condition Data Collection
Location Statewide
Responsible Agency MDOT SHA
Description Support for MDOT SHA's collection of pavement data by taking skid measurements and the use of an automatic road analyzer.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	State		53					53	
	STBG		997					997	
<i>Subtotal</i>	State		53					53	
	Federal		997					997	
Total			1,050					1,050	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,100

STIP # CA4131
Project MD 2/MD 4 Corridor Study
Location MD 2/MD 4 (North of Stoakley Road/Hospital Drive - South of MD 765A), Prince Frederick
Responsible Agency MDOT SHA
Description Study of MD 2/MD 4 upgrades to widen MD 2/MD 4 to a six-lane divided highway; 3.5 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	2,042							
	NHPP	1,372							
RW	State	622							
CO									
Subtotal	State	2,664							
	Federal	1,372							
Total		4,036							

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 120,000[†]

[†] includes costs of study and phases 3-6, for which design, right-of-way acquisition, and construction funding is yet to be identified

STIP # CA4133
Project MD 2/MD 4 Phase 2 Highway Reconstruction
Location MD 2/MD 4 (Fox Run Boulevard - MD 231), Prince Frederick
Responsible Agency MDOT SHA
Description Reconstruction and widening of MD 2/MD 4 to a six-lane divided highway; 1.2 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	2,493							
	NHPP	2,407							
RW	State	6,890	500	1,261				1,761	
CO	State	36,152							
Subtotal	State	45,535	500	1,261					
	Federal	2,407						1,761	
Total		47,942	500	1,261				1,761	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 50,000

STIP # CO1281
Project MD 16 Mill Creek Bridge Replacement
Location MD 16 at Mill Creek, Williston
Responsible Agency MDOT SHA
Description Replacement of existing 1968 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	219	109	82				191	
	STBG		437	329				766	
RW									
CO									
Subtotal	State	219	109	82				191	
	Federal		437	329				766	
Total		219	546	411				957	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 4,200

STIP # CO2621
Project MD 404 Smithville Ditch Bridge Replacement
Location MD 404 at Smithville Ditch, Federalsburg
Responsible Agency MDOT SHA
Description Replacement of existing 1957 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	145	7	7	7	2		23	
	NHPP		126	126	126	42		420	
RW									
CO									
Subtotal	State	145	7	7	7	2		23	
	Federal		126	126	126	42		420	
Total		145	133	133	133	44		443	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 600†

† cost does not include construction cost, which is yet to be determined

STIP # CO3621
Project MD 306 Houston Branch Bridge Replacement
Location MD 306 at Houston Branch, Federalsburg
Responsible Agency MDOT SHA
Description Replacement of existing 1955 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	74	98	93	64	58		313	
RW									
CO									
<i>Subtotal</i>	<i>State</i>	<i>74</i>	<i>98</i>	<i>93</i>	<i>64</i>	<i>58</i>		<i>313</i>	
	<i>Federal</i>								
Total		74	98	93	64	58		313	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 400†

† cost does not include construction cost, which is yet to be determined

STIP # GA1731
Project US 219 Youghiogheny River Bridge Replacement
Location US 219 at the Youghiogheny River, Redhouse
Responsible Agency MDOT SHA
Description Replacement of existing 1927 bridge, which is rated in poor condition.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	1,009	167					167	
RW									
CO	State			72	320	397	371	379	
	NHPP			255	1,138	1,411	1,314	1,343	
Subtotal	State	1,009	167	72	320	397	371	379	
	Federal			255	1,138	1,411	1,314	1,343	
Total		1,009	167	327	1,458	1,808	1,685	1,722	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 8,200

STIP # GA1961
Project MD 42 Buffalo Run Bridge Replacement
Location MD 42 at Buffalo Run, Friendsville
Responsible Agency MDOT SHA
Description Replacement of existing 1933 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	764	5	5	5	5	2	20	
	STBG	22	87	87	87	87	44	348	
RW									
CO									
Subtotal	State	764	5	5	5	5	2	20	
	Federal	22	87	87	87	87	44	348	
Total		786	90	90	90	90	45	368	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,200†

† cost does not include construction cost, which is yet to be determined

STIP # GA1971
Project MD 39 Youghiogheny River Bridge Replacement
Location MD 39 at the Youghiogheny River, Crellin
Responsible Agency MDOT SHA
Description Replacement of existing 1923 bridge, which is rated in poor condition.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	1,289							
RW	State	500	22	22	9			53	
CO	Private	25							
	State	342	89					89	
	STBG	5,376	2,319					2,319	
Subtotal	Private	25							
	State	2,131	111	22	9			142	
	Federal	5,376	2,319					2,319	
Total		7,532	2,430	22	9			2,461	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 10,000

STIP # GA4161
Project US 40AL Big Shade Run Bridge Replacement
Location US 40AL at Big Shade Run, Grantsville
Responsible Agency MDOT SHA
Description Replacement of existing 1932 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	309	29	15				44	
	STBG		549	274				823	
RW									
CO									
Subtotal	State	309	29	15				44	
	Federal		549	274				823	
Total		309	578	289				867	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,200†

† cost does not include construction cost, which is yet to be determined

STIP # GA4201
Project MD 42 Glade Run Bridge Replacement
Location MD 42 at Glade Run, Friendsville
Responsible Agency MDOT SHA
Description Replacement of existing 1933 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	274	602	301				903	
RW									
CO									
<i>Subtotal</i>	<i>State</i>	<i>274</i>	<i>602</i>	<i>301</i>				<i>903</i>	
	<i>Federal</i>								
Total		274	602	301				903	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,200†

† cost does not include construction cost, which is yet to be determined

STIP # GA5991
Project US 219 at Oakland Highway Realignment
Location US 219 (North of 3rd Street - MD 135), Oakland
Responsible Agency MDOT SHA
Description Construction of new US 219 alignment east of central Oakland; 2.4 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	4,804							
	NHPP	891							
RW	State	1,810							
	HPP	800							
	NHPP	1,781							
CO	State	21							
Subtotal	State	6,634							
	Federal	3,472							
Total		10,106							

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 48,000

STIP # GA6461
Project US 219 Corridor Study
Location US 219 (I-68/US 40 - Pennsylvania State line), Grantsville
Responsible Agency MDOT SHA
Description Maryland’s portion of a Maryland/Pennsylvania joint study of US 219 between I-68/US 40 and Meyersdale, Pennsylvania.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State	2,175							
	ADHS	941							
PE/FD	State	456							
	ADHS	1,245	1,800	1,800	1,800			5,400	
	NHPP	372							
RW									
CO									
Subtotal	State	2,631							
	Federal	2,558	1,800	1,800	1,800			5,400	
Total		5,189	1,800	1,800	1,800			5,400	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 69,000†

† includes costs of previous incomplete NEPA Tier 1 study, complete PEL study, ongoing joint study, and future construction north of current breakout project (GA6462)

STIP # GA6462
Project US 219 North Highway Realignment
Location US 219 (I-68/US 40 - Old Salisbury Road), Grantsville
Responsible Agency MDOT SHA
Description Construction of realigned and upgraded US 219; 1.5 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	6,726							
	ADHS	9							
RW	State	1,651	8					8	
	ADHS	2,283	373					373	
CO	State	640							
	ADHS	50,968							
Subtotal	State	9,018	8					8	
	Federal	53,260	373					373	
Total		62,659						381	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 63,000

STIP # QA1841
Project Northbound US 301 Chester River Bridge Replacement
Location US 301 at the Chester River, Millington
Responsible Agency MDOT SHA
Description Replacement of existing 1955 bridge, which is rated poor.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	1,314	49					40	
	NHPP	88	939					763	
RW									
CO	State		29	157	164			350	
	NHPP		576	2,970	3,103			6,649	
Subtotal	State	1,314	78	157	164			399	
	Federal	88	1,515	2,970	3,103			7,588	
Total		1,402	1,593	3,127	3,267			7,987	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 9,400

STIP # QA2367
Project US 50 Corridor Study
Location US 50 (US 301 (North) - MD 404), Queenstown
Responsible Agency MDOT SHA
Description Study of widening US 50 to six lanes, acquiring access controls, and replacement of at-grade intersections with grade-separated interchanges; 13.8 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	3,371							
	NHPP	4,910							
RW	State	9,076							
	NHPP	2,657							
CO									
Subtotal	State	12,447							
	Federal	7,567							
Total		20,014							

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 550,000[†]

[†] includes costs of study and phases 1-8

STIP # RU Bridge
Project Areawide Bridge Rehabilitation
Location Statewide (Non-MPO Areas)
Responsible Agency MDOT SHA
Description Program to provide major upgrades to and maintenance of structures on MDOT SHA highways.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		500	500	250	250			1,500
	Federal†		2,000	2,000	1,000	1,000			6,000
PE/FD	State		2,000	2,000	1,000	1,000			6,000
	Federal†		8,000	8,000	4,000	4,000			24,000
RW	State		15	15	10	10			50
	Federal†		60	60	40	40			200
CO	State		3,200	3,200	1,600	1,600			9,600
	Federal†		12,800	12,800	6,400	6,400			38,400
Subtotal	State		5,715	5,715	2,860	2,860			17,150
	Federal†		22,860	22,860	11,440	11,440			68,600
Total			28,575	28,575	14,300	14,300			85,750

* for informational purposes only

all costs in \$000s

† when federally-funded, RU Bridge improvements may receive NHPP, STBG, and/or other federal funds as determined appropriate by MDOT

Estimated Total Project Cost 86,000

STIP # RU Congestion Mgmt
Project Areawide Congestion Management
Location Statewide (Non-MPO Areas)
Responsible Agency MDOT SHA
Description Program to provide traffic control, management, and monitoring on MDOT SHA highways.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		200	200	100	100			600
	Federal†		800	800	400	400			2,400
PE/FD	State		600	600	400	400			2,000
	Federal†		2,400	2,400	1,600	1,600			8,000
RW	State		15	15	10	10			50
	Federal†		60	60	40	40			200
CO	State		60	60	30	30			180
	Federal†		240	240	120	120			720
Other	State		1,200	1,200	600	600			3,600
	Federal†		4,800	4,800	2,400	2,400			14,400
Subtotal	State		2,135	2,135	1,140	1,140			6,550
	Federal†		8,540	8,540	4,560	4,560			26,200
Total			10,675	10,675	5,700	5,700			32,750

* for informational purposes only

† when federally-funded, RU Congestion Mgmt improvements may receive CMAQ, NHPP, STBG, and/or other federal funds as determined appropriate by MDOT

Estimated Total Project Cost 33,000

STIP # RU Environment
Project Areawide Environmental Projects
Location Statewide (Non-MPO Areas)
Responsible Agency MDOT SHA
Description Program to provide environmental and aesthetic improvements on MDOT SHA highways.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		100	100	50	50		300	
	Federal†		400	400	200	200		1,200	
PE/FD	State		160	160	80	80		480	
	Federal†		640	640	320	320		1,920	
RW	State		15	15	10	10		50	
	Federal†		60	60	40	40		200	
CO	State		1,400	1,400	700	700		4,200	
	Federal†		5,600	5,600	2,800	2,800		16,800	
Subtotal	State		1,675	1,675	840	840		5,030	
	Federal†		6,700	6,700	3,360	3,360		20,120	
Total			8,375	8,375	4,250	4,250		25,150	

* for informational purposes only

† when federally-funded, RU Environment improvements may receive HSIP, NHPP, STBG, and/or other federal funds as determined appropriate by MDOT

Estimated Total Project Cost 25,000

STIP # RU Resurface
Project Areawide Resurfacing and Rehabilitation
Location Statewide (Non-MPO Areas)
Responsible Agency MDOT SHA
Description Program to provide periodic resurfacing and upgrading of MDOT SHA highways.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		200	200	100	100			600
	Federal†		800	800	400	400			2,400
PE/FD	State		400	400	200	200			1,200
	Federal†		1,600	1,600	800	800			4,800
RW	State		15	15	10	10			50
	Federal†		60	60	40	40			200
CO	State		12,000	12,000	6,000	6,000			36,000
	Federal†		48,000	48,000	24,000	24,000			144,000
Subtotal	State		12,615	12,615	6,310	6,310			37,850
	Federal†		50,460	50,460	25,240	25,240			151,400
Total			63,075	63,075	31,550	31,550			189,250

* for informational purposes only

† when federally-funded, RU Resurface improvements may receive HSIP, NHPP, STBG, and/or other federal funds as determined appropriate by MDOT

Estimated Total Project Cost 190,000

STIP # RU Safety/Spot
Project Areawide Safety and Spot Improvements
Location Statewide (Non-MPO Areas)
Responsible Agency MDOT SHA
Description Program to provide localized improvements to address safety and/or operational issues on MDOT SHA highways.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		150	150	75	75			450
	Federal†		600	600	300	300			1,800
PE/FD	State		300	300	150	150			900
	Federal†		1,200	1,200	600	600			3,600
RW	State		30	30	15	15			90
	Federal†		120	120	60	60			360
CO	State		3,200	3,200	1,600	1,600			9,600
	Federal†		12,800	12,800	6,400	6,400			38,400
Subtotal	State		3,680	3,680	1,840	1,840			11,040
	Federal†		14,720	14,720	7,360	7,360			44,160
Total			18,400	18,400	9,200	9,200			55,200

* for informational purposes only

† when federally-funded, RU Safety/Spot improvements may receive CMAQ, HSIP, NHPP, STBG, and/or other federal funds as determined appropriate by MDOT

Estimated Total Project Cost 55,000

STIP # RU Urban Reconstruct
Project Areawide Urban Reconstruction
Location Statewide (Non-MPO Areas)
Responsible Agency MDOT SHA
Description Program to provide roadway rehabilitation on MDOT SHA highways in municipalities and urban areas.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		10	10	5	5		30	
	Federal†		40	40	20	20		120	
PE/FD	State		50	50	25	25		150	
	Federal†		200	200	100	100		600	
RW	State		15	15	10	10		50	
	Federal†		60	60	40	40		200	
CO	State		600	600	300	300		1,800	
	Federal†		2,400	2,400	1,200	1,200		7,200	
Subtotal	State		675	675	340	340		2,030	
	Federal†		2,700	2,700	1,360	1,360		8,120	
Total			3,275	3,275	1,700	1,700		10,150	

* for informational purposes only

† when federally-funded, RU Urban Reconstruct improvements may receive NHPP, STBG, and/or other federal funds as determined appropriate by MDOT

Estimated Total Project Cost 10,000

STIP # SH2201
Project SHRP2 Maryland 2021 National Operations Academy Scholarships
Location n/a
Responsible Agency MDOT SHA
Description As part of the 2021 National Operations Academy, in which MDOT SHA personnel will participate, this funding will support delivery of training materials developed by the Washington State Department of Transportation’s SHRP2 implementation assistance program for the L36 Regional Operations Forum.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD									
RW									
CO									
Other	SHRP2		90					90	
Subtotal	State								
	Federal		90					90	
Total			90					90	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 90

STIP # SM1511
Project MD 6 Persimmon Creek Bridge Replacement
Location MD 6 at Persimmon Creek, Mechanicsville
Responsible Agency MDOT SHA
Description Emergency bridge replacement following damage caused by Tropical Storm Isaias.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	116							
	STBG	904	272					272	
RW	State		9					9	
	STBG	6	112					112	
CO	State	5	1					1	
	STBG	1,144	1,739					1,739	
Subtotal	State	121	10					10	
	Federal	2,054	2,123					2,123	
Total		2,175	2,133					2,133	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 4,300

STIP # SM1761
Project MD 234 Chaptico Creek Bridge Replacement
Location MD 234 at Chaptico Creek, Chaptico
Responsible Agency MDOT SHA
Description Replacement of existing 1959 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	276	69					69	
	STBG		831					831	
RW									
CO									
Subtotal	State	276	69					69	
	Federal		831					831	
Total		276	900					900	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 4,200

STIP # SM2021
Project MD 5 at Abell Street/Moakley Street Intersection Reconstruction
Location MD 5 at Abell Street/Moakley Street, Leonardtown
Responsible Agency MDOT SHA
Description Reconstruction of MD 5 intersection, including addition of left-turn lanes; 0.2 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	2,682							
RW	State	2,774	1,010					1,010	
CO	Private	400							
	State	321	68	39				107	
	STBG	6,330	268	157				425	
Subtotal	Private	400							
	State	5,777	1,078	39				1,117	
	Federal	6,330	268	157				425	
Total		12,507	1,346	196				1,542	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 14,000

STIP # SM3521
Project MD 5 Corridor Study
Location MD 5 (MD 243 - MD 245), Leonardtown
Responsible Agency MDOT SHA
Description Study of MD 5 upgrades; 1.4 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	2,174							
RW									
CO									
<i>Subtotal</i>	<i>State</i>	<i>2,174</i>							
	<i>Federal</i>								
Total		2,174							

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 55,000[†]

[†] includes costs of study and additional upgrades in corridor beyond existing breakout project (SM2021)

STIP # SM7741
Project MD 5 Highway Reconstruction
Location MD 5 (South of Camp Brown Road - Lake Conoy Causeway), Scotland
Responsible Agency MDOT SHA
Description Reconstruction of and addition of shoulders to MD 5; 2.2 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	4,059							
	STBG	295							
RW	State	411							
	STBG	628							
CO	State	3,159	928					928	
	STBG	10,621	3,833					3,833	
Subtotal	State	7,629	928					928	
	Federal	11,544	3,833					3,833	
Total		19,173	4,761					4,761	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 24,000

STIP # SO1812
Project MD 413 Phase 2C Trail
Location MD 413 (Davis Road, Marion Station - US 13, Westover)
Responsible Agency MDOT SHA
Description Extension of existing 4½-mile shared-use path paralleling MD 413 between Hinman Lane in Crisfield and Davis Road in Marion Station 8 miles north to US 13 in Westover.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State		46	44	21			111	
	TA		185	174	84			443	
RW									
CO									
Subtotal	State		46	44	21			111	
	Federal		185	174	84			443	
Total			231	218	105			554	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 600†

† cost does not include construction cost, which is yet to be determined

STIP # SP2201
Project Statewide Planning and Research Program
Location n/a
Responsible Agency MDOT SHA
Description Major strategic and systems planning, data collection and analysis, and special studies to enable MDOT SHA to cooperatively, continuously, and comprehensively make transportation investment decisions and coordinate transportation planning activities throughout Maryland.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		3,285					3,285	
	SPR		11,305					11,305	
	STBG		30,718					30,718	
PE/FD									
RW									
CO									
Subtotal	State		3,285					3,285	
	Federal		42,023					42,023	
Total			45,308					45,308	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 45,000

STIP # TA2331
Project MD 33 Oak Creek Bridge Replacement
Location MD 33 at Oak Creek, Newcomb
Responsible Agency MDOT SHA
Description Replacement of existing 1965 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	294	14	14	14			42	
	STBG	48	262	264	264			790	
RW									
CO									
Subtotal	State	294	14	14	14			42	
	Federal	48	262	264	264			790	
Total		344	276	278	278			832	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 1,200†

† cost does not include construction cost, which is yet to be determined

STIP # WO3151
Project MD 589 Corridor Study
Location MD 589 (US 50 - US 113), Ocean Pines
Responsible Agency MDOT SHA
Description Study of MD 589 improvements; 4.7 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State	1,171							
	STBG	246							
PE/FD									
RW									
CO									
Subtotal	State	1,171							
	Federal	246							
Total		1,417							

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 250,000

STIP # WO4191
Project US 50 Sinepuxent Bay Bridge Replacement
Location US 50 at Sinepuxent Bay, Ocean City
Responsible Agency MDOT SHA
Description Replacement of existing 1942 bridge.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	2,908							
RW									
CO									
<i>Subtotal</i>	<i>State</i>	<i>2,908</i>							
	<i>Federal</i>								
Total		2,908							

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 380,000

STIP # WO7821
Project MD 90 Corridor Study
Location MD 90 (US 50 - MD 528), Ocean Pines/Ocean City
Responsible Agency MDOT SHA
Description Study of MD 90 operations from US 50 to MD 528, including the MD 90 Assawoman Bay bridge; 11.2 miles.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP	State		14	11				25	
	NHPP		273	202				475	
PE/FD									
RW									
CO									
Subtotal	State		14	11				25	
	Federal		273	202				475	
Total			287	213				500	

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 500†

† does not include costs for preliminary engineering, final design, right-of-way acquisition, and Construction, which are yet to be identified

STIP # XY1811
Project Traffic Relief Plan Smart Traffic Signals
Location Statewide
Responsible Agency MDOT SHA
Description Installation of traffic signals that adjust timing and synchronization in corridors to adaptively manage traffic operations and reduce congestion.

Phase	Funding	Previous FYs	STIP				FY 2026*	FY 2027*	FY 2022-2025 STIP Total
			FY 2022	FY 2023	FY 2024	FY 2025			
PP									
PE/FD	State	1,334							0
	CMAQ	600	441	322	369	319			1,451
	NHPP	213	381	150	150	150			831
	STBG	600	441	322	369	319			1,451
RW									
CO	State	4,167	20	20	20				60
	CMAQ	3,984	1,298	3,812	3,940	4,310	4,445		13,360
	NHPP		1,298	3,812	3,940	4,310	4,445		13,360
<i>Subtotal State</i>		<i>5,501</i>	<i>20</i>	<i>20</i>	<i>20</i>				<i>60</i>
<i>Subtotal Federal</i>		<i>5,397</i>	<i>3,859</i>	<i>8,418</i>	<i>8,768</i>	<i>9,408</i>	<i>8,890</i>		<i>30,453</i>
Total		10,898	3,879	8,438	8,788	9,408	8,890		30,513

* for informational purposes only

all costs in \$000s

Estimated Total Project Cost 50,000

APPENDIX K – Performance Management Measures / National Goals

Performance Management Measures / National Goals

The FAST Act has continued the transition, started by MAP-21, of the nation's surface transportation program to a performance and outcome-based program, in which resources are invested in projects to achieve targets toward regional, state, and national goals. The bill established seven national goals described in 23 USC§150(b). The goals are:

1. Safety - Achieve a significant reduction in traffic fatalities and serious injuries on all public roads
2. Infrastructure Condition - Maintain the highway infrastructure asset system in a state of good repair
3. Congestion Reduction - Achieve a significant reduction in congestion on the National Highway System
4. System Reliability - Improve the efficiency of the surface transportation system
5. Freight Movement and Economic Vitality - Improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development
6. Environmental Sustainability - Enhance the performance of the transportation system while protecting/enhancing the natural environment
7. Environmental Sustainability - To enhance the performance of the transportation system while protecting and enhancing the natural environment
7. Reduced Project Delivery Delays - Reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices

The FHWA and FTA have published a series of rules that establish regulations to assess progress towards the seven national goals. The regulations direct states, MPOs and transit providers to establish targets and track specific measures related to the conditions and performance of their surface transportation systems in areas that include bridges, pavement, safety, congestion, freight, and transit asset management. States and MPOs are to incorporate the measures into their transportation improvement programs and long-range transportation plans, so that they can demonstrate how proposed transportation projects will help make progress towards the goals.

Based on federal guidance, MDOT is establishing statewide targets and measures, and it will be working closely with the MPOs throughout the process to coordinate the establishment of MPO performance targets. MDOT already tracks performance through its Annual Attainment Report, which provides information on measures of funding, investment, mobility, and safety, and the MPOs will produce similar reports after the State and MPO targets are set on a reoccurring schedule.

<http://arcg.is/1r04uH>

System Performance Report

In addition to its long-standing efforts measuring progress through the annual AR, Managing for Results, and the MDOT Excellerator, MDOT established performance targets for safety, infrastructure condition, system performance, congestion mitigation, and air quality as per 23 U.S.C. 490. MDOT has a certified initial Transportation Asset Management Plan (TAMP) process. In addition, MDOT MTA has developed a TAMP as a Tier I transit agency and also coordinated with the local transit operators to develop a Group Transit Asset Management Plan for all of the State's Tier II transit systems as per 49 U.S.C 5326. MDOT will continue to coordinate these efforts with its other planning and programming processes as documented in State and regional long-range transportation plans and transportation improvement programs.

Highway Safety

MDOT updates highway safety performance targets for the following safety measures through the annual HSIP. Development of annual targets is coordinated by MDOT with MPOs, FHWA, and National Highway Traffic Safety Administration.

Maryland maintains the TZD approach by developing interim targets to track progress to an aspirational goal to reduce overall fatalities and serious injuries by at least 50 percent by 2030, starting with a baseline in 2008. The annual targets are set using an exponential trend line connecting the historical data to the 2030 goals, as listed below. Five-year rolling averages of historical data are used to calculate annual targets, along with annual vehicle miles of travel, which reached 60 billion in calendar year 2017.

The MDOT MVA Maryland Highway Safety Office (MHSO) and MDOT SHA have adopted the Toward Zero Deaths (TZD) approach. TZD is a data-driven effort to reduce fatalities and serious injuries by developing strong leadership in organizations that directly impact highway safety. Maryland leaders continue to build partnerships with government agencies, private citizens, traditional safety advocates, and nontraditional partners to strengthen state and local efforts to improve the safety of our transportation system for all users.

Over the next 20 years...

MDOT will update the Maryland Strategic Highway Safety Plan (SHSP) (2016-2020) to guide a focused approach on specific emphasis areas and incorporate systemic safety implementation to complement the location focused approach to improve safety.

MDOT MHSO will support Maryland jurisdictions to develop a local SHSP, using the Maryland SHSP as a guide, and addressing local issues and strategies specific to each jurisdiction.

MDOT SHA will develop the annual Highway Safety Improvement Program (HSIP) to implement the SHSP, implement projects and strategies to reduce identified safety problems, and report annual highway safety performance targets.

MDOT will implement the strategies identified in this Plan and other Maryland safety plans to help Maryland achieve the safety goals and objectives of our community.

MDOT will strategically modernize infrastructure through new and innovative technology, enhanced partnerships, design standards, and practices to improve the safety of the movement of people and goods.

Transit Asset Management

MDOT MTA is a Tier 1 transit agency, operating and maintaining \$10.7 billion in physical assets to provide transportation services to over 2.2 million people in the State of Maryland. MDOT MTA provides funding (state and federal pass-through), technical support, and assistance to the 23 Locally Operated Transit Systems across the state (20 tier 2 agencies and 3 tier 1 agencies). Every four years, per Federal Transit Administration (FTA) requirement, MDOT MTA updates its Transit Asset Management Plan (TAMP). The MDOT MTA Office of Local Transit Support leads and provides oversight for the tier 2 LOTS and updates a group TAMP on an annual basis, with a major update every four years per FTA requirement. MDOT MTA and LOTS update National Transit Database (NTD) performance targets and actuals on an annual basis.

Per 49 CFR 625 and 630, MDOT MTA is required to measure the performance of four asset categories. These asset categories and associated performance measures provide the performance targets and actuals for each measure required by FTA for submittal through the annual NTD reporting process. Targets are developed using asset information, including condition and programmed procurements for asset renewal or replacement.

FTA-Required Performance Measures by Asset Category (MDOT MTA TAMP, 2019)

Asset Category	Performance Measure
Rolling Stock (Revenue Vehicles)	% of assets at or past their useful life benchmark
Equipment (Non-Revenue Vehicles)	% of assets at or past their useful life benchmark
Facilities (Including Stations)	% of assets rated below condition 3 on TERM scale
Guideway	% of directional route miles under performance restrictions

NTD Performance Targets and Actuals (2018-2021)

Asset Category	NTD Asset Class	ULB	2018 Performance (%)	2019 Target (%)	2019 Actuals (%)	2020 Target (%)	2020 Actuals (%)	2021 Target (%)
Rolling Stock (Revenue Vehicles)	AB – Articulated Bus	12	0	0	0	0	0	0
	AO – Automobile	8	0	4.4	0	100	100	60
	BR – Over-the-road Bus	14	0	0	0	0	0	0
	BU – Bus	12	0	0	16.8	6.8	7.4	4.1
	CU – Cutaway	10	42.36	0	42.4	33.6	20.8	9.4
	HR – Heavy Rail Passenger Car	31	100	88.9	100	100	100	100
	LR – Light Rail Vehicle	31	0	0	0	0	0	0

Asset Category	NTD Asset Class	ULB	2018 Performance (%)	2019 Target (%)	2019 Actuals (%)	2020 Target (%)	2020 Actuals (%)	2021 Target (%)
	MV – Minivan	8	0	0	100	0	N/A	N/A
	RL – Commuter Rail Locomotive	39	13.04	0	0	0	0	0
	RP – Commuter Rail Passenger Coach	39	0	0	0	0	0	0
Equipment (Non-Revenue Vehicles)	Automobiles	8	32.88	47	54	59	80	80
	Trucks and Other Rubber Tire Vehicles	7	49.13	54.4	34	37	34.7	35.4
	Steel Wheel Vehicles	11	27.27	61.1	38	38	44.4	55.5
Facilities	Passenger / Parking Facilities	N/A	55.14	50	44	44	36	34
	Administrative / Maintenance Facilities	N/A	5	50	15	13	36	27
Guideway	CR – Commuter Rail	N/A	43.51	3.5	0	0	0	0
	HR – Heavy Rail	N/A	40.19	3.5	6.7	11	1	3.1
	LR – Light Rail	N/A	38.89	5.8	14.4	15.2	8.8	8.9

LOTS (Tier-2) Performance Measures and Actuals

Twenty Locally Operated Transit Systems (LOTS) are participants in the Maryland LOTS Tier II Group TAMP. The primary services offered by the Tier II LOTS are fixed route bus service and demand response service, typically used by commuters, the elderly, and the disabled to get to work centers, medical centers, shopping centers, and recreational centers.

As illustrated in the below table, the Maryland Tier II LOTS group achieved the targets established in FY20 for all asset classes, except for Buses and Cutaway Buses where adjustments were made in the Useful Life Benchmarks (ULB). The COVID-19 pandemic has impacted the LOTS agencies' ability to generate revenue and maintain ridership levels comparable to FY19. The effects resulting from COVID-19 are unknown, but it is possible this will impact the group's ability to meet its targets. Since the development of the first LOTS Group TAMP in 2018, the group has made progress in improving asset management processes, specifically inventory data collection and condition assessment.

Tier-2 NTD Performance Targets and Actuals (2018-2020)

Asset Category	NTD Asset Class	2018 Performance (%)	2019 Target (%)	2019 Actuals (%)	2020 Target (%)	2020 Actuals (%)
Rolling Stock (Revenue Vehicles)	BU – Bus	23	13	17	12	26
	CU – Cutaway	11	11	17	15	27
	Automobile	27	39	33	33	27
	Van	45	35	30	26	27
	Ferry Boat	0	50	0	0	67
Equipment	Non-Revenue Vehicles	20	15	30	38	37
Facilities	Administrative/Maintenance	12	24	4	4	0
	Passenger/Parking	0	25	0	0	0

*Useful life benchmarks were updated in FY20 for vehicle assets

APPENDIX L – Public Outreach and Comments

The Maryland Department of Transportation released the Statewide Transportation Improvement Program (STIP) for a 30 day from September 21, 2021, through October 21, 2021. The Press Release was sent to around 150 different news organizations covering internet, print, radio, and television. There was one comment received over the comment period.

Comment received over the comment period and response.

District 1 Media List

Bayside Gazette
 Daily Times
 Dorchester Banner
 Dorchester Star
 ESPN 1240 AM
 Maryland Coast Dispatch
 Newscast One
 Ocean City Today
 Somerset Herald
 WAFL Radio
 WAMS 101.1 FM
 WAVD The Wave 97.1 FM
 WBEY 97.9 FM (Bay Country)
 WBOC TV 16
 WCEM 106.3 FM
 WCEM/WAAI/WTDK/ESPN 1240
 WDEL Radio
 WGMD Talk 92.7
 WJKI 98.5 and 103.5 FM
 WKHI 107.7 FM
 WKTT (97.5 FM)
 WMDT TV 47
 Worcester Co. Board of Ed..
 Worcester Times
 WRDE TV 9
 WSBY 98.9 FM
 WTDK 107.1 FM
 WWFG Froggy 99.9 FM
 WZBH The Beach 93.5 FM
 WZKT FM (105.9 FM)

District 2 Media List

Associated Press
 Banner News
 Bay Times
 Caroline Times Record
 Cecil Whig
 Dorchester Star
 Kent County News
 MTS Broadcasting
 Newscast One
 Star Democrat
 Times Record
 Traffax Delmarva
 WBAL Radio
 WBAL TV 11
 WBFF Fox 45

WBOC TV 16
 WCEI FM 96.7
 WCEI Radio
 WCEI
 WCTR AM 1530
 WDEL Radio
 WINX
 WJZ TV 13
 WKDI Radio (Caroline)
 WMDT TV 47
 WMDT TV 47
 WNCL
 WQHQ FM
 WTOP Traffic
 Upper Eastern Shore Media

District 3 Media List

Associated Press Washington Bureau
 Bowie Patch
 Chevy Chase Patch
 Colesville Patch
 CTV - Prince George's TV
 Gazette
 Germantown Patch
 Government Executive
 Kensington Patch
 Laurel Leader
 Laurel Patch
 Metro Networks News Desk
 Montgomery Gazette
 Newscast One
 Patch.com
 Prince George's Gazette
 Reliant Traffic
 The Gazette
 Total Traffic News Desk
 WAMU FM
 Washington Post
 Washington Times
 WJLA ABC 7/News 8
 WMAL Radio
 WNEW All News 99.1
 WRC NBC 4
 WTOP Radio
 WTOP Traffic Center
 WTTG Fox 5
 WUSA TV 9

District 4 Media List

Arbutus/Catonsville Times
 Associated Press
 Baltimore Business Journal
 Baltimore Messenger
 Baltimore Sun
 MD Daily Record
 Metro News
 patch.com
 Patuxent Publishing (Sunpapers)
 The Aegis
 The Avenue News
 Total Traffic
 WBAL Radio
 WBAL TV 11
 WBFF TV Fox 45
 WCBM Radio
 WJZ TV 13
 WLIF Lite 102
 WMAR ABC 2
 WNEW Radio
 WPOC FM 93
 WRBS FM

District 5 Media List

Annapolis Patch
 Arundel Voice
 Baltimore Business Journal
 Baltimore Sun
 Bay Net
 Bay Weekly
 Maryland Gazette
 MD Independent
 MD Independent (St. Mary's Co.)
 Metro Networks
 Newscast One
 Patch
 Reliant Traffic
 Severna Park Patch
 Severna Park Voice
 South River Source
 The Business Monthly
 The Capital
 The County Times
 The Daily Record
 The Enterprise (Charles Co.)
 Total Traffic
 WBAL Radio

WBAL TV 11
 WBFF Fox 45
 WCBM Radio
 WJZ TV 13
 WKIK AM
 WMAR ABC 2
 WMZQ 98.7 FM
 WNAV 1470 AM
 WNEW FM All News 99.1
 WPRS 104.1 FM
 WRNR 103.1 FM
 WSMD 98.3 FM
 WTOP Radio
 WTTG Fox 5
 WUSA TV 9

District 6 Media List

Allegany Radio Corp. (6 stations)
 Associated Press
 Cumberland Times News
 Hancock News
 Herald Mail
 Mineral Daily News Tribune
 Newscast One
 Pickett News
 Republican News
 WAFY (Key 103) FM
 WAYZ 104.7 FM
 WCBC AM Radio
 WCRH FM
 WFMD Radio
 WFRB AM/FM
 WTBO AM
 WHAG NBC 25
 WJEJ AM
 WKHJ
 WQCM Radio
 WRNR AM
 WWEG 106.9 FM (The Eagle)

District 7 Media List

Associated Press - Western Bureau
Baltimore Sun
Carroll Advocate
Carroll County Times
Carroll Eagle
Columbia flier
Frederick News Post
Gazette
Howard County Times/Columbia Flier
Howard Magazine/Maryland Family
Newscast One
Total Traffic
WBAL Radio Traffic
WCBM Radio
WFMD 960 AM
WFRE FM/WFMD AM
WMAL Radio
WMHT
WNEW FM All News 99.1
WTOP Radio
WTTR Radio
WWEA Radio

APPENDIX M – Bicycle and Pedestrian Projects

Maryland Bicycle and Pedestrian Projects

ADA Program

Anne Arundel County

Sidewalk Improvements on various locations (Anne Arundel and Charles)

Baltimore County

Sidewalk Improvements on various locations (Baltimore and Harford)

Carroll County

MD 31 - New Windsor

Montgomery County

Sidewalk Improvements on various locations (Montgomery and Prince George's)

Retrofit Bicycle Program

Montgomery County

MD 124 - Dosh Drive to MD 117

Prince George's County

US 1 Trolley Trail

Worcester County

US 50 - MD 611 to bridge over Sinepuxent Bay

Neighborhood Conservation

Calvert County

MD 261 - 9th Street to Anne Arundel Line

Carroll County

MD 30 Bus - Hampstead Urban Reconstruction

Frederick County

MD140 - East of North Avenue to Timbermill Run

MD180 - MD383 to Old Holter Road

Kent County

MD 291 - School Street to Crane Street

Prince George's County

MD 212 A - Pine Street to US 1

MD 5 Naylor Mill

MD 500 - MD 208 to D.C. Line

Washington County

MD 845 A - South of Keedysville to north of Keedysville

Primary/ Secondary Program

Allegany County

MD 36 - Bridge over Jennings Run - Shoulders

Anne Arundel County

MD 175 - Disney Road to Reece Road - Shoulders & Side Walk

MD 175 - Mapes Road to Reece Road - Shoulders & Side Walk

Baltimore County

MD 140 - Painters Mill Road to Garrison View Road - Wide Curb Lanes

Calvert County

MD 2/4 - Fox Run Boulevard to Commerce Lane - Shoulders - Side Walk

Carroll County

MD 30 Bus. - North Woods Trail to CSX Railroad - Shoulders & Side Walk

Cecil County

MD 272 - Bridge over Amtrak - Shoulders & Side Walk

Charles County

MD 254 - Cobb Island Road - Side Walk & Wide Curb Lanes

Frederick County

MD 180 - North of I-70 west crossing to I-70 east crossing - Shoulders & Side Walk

Garrett County

MD 39 - Bridge over the Youghiogheny River
Shoulders 0.1 \$ 15,000

Montgomery County

I-270 - Watkins Mill Road Extended - Side Walk
MD 185 - At Jones Bridge Road Phase 3 - Side Walk & Wide Curb Lanes
MD 355 - Woodmont Ave. to South Wood Road - Side Walk & Wide Curb Lanes
MD 97 - South of Brookeville, near Gold Mine Road, to north of Brookeville - Shoulders

Prince George's County

MD 210 - At Kerby Hill Road/ Livingston Road - Side Walk & Wide Curb Lanes
MD 212A - Pine Street to US 1 - Side Walk
MD 4 - At Suitland Parkway- Side Walk & Wide Curb Lanes
MD 500 - MD 208 to D.C. Line - Side
MD5 - Curtis Drive to the Washington D.C. Line - Side Walk
US 1 - College Avenue to MD 193 (Segment 1) - Shoulders & Side Walk

Washington County

US 113 - North of MD 365 to Five Mile Branch - Shoulders & Side Walk

Retrofit Sidewalk Program

Anne Arundel County

MD 214 from MD 2 to MD 253

Carroll County

MD 27 from Tuc Road to Hahn Road

Howard County

MD 7D from MD 281 to Cresswell Avenue
US 1 from Crestmount Road to Cedar Avenue**Transportation Alternatives Program**

Allegany County

Baltimore Street Access
Bel Air Elementary School Pedestrian Bridge Replacement (SRTS)

Anne Arundel County

Bicycle Safety Training Project
Broadneck Peninsula Trail III
Cowhide Branch Stream Restoration and Fish Passage
South Shore Trail Phase II
WB&A Trail Bridge at Patuxent

Baltimore City

Baltimore Greenway Trails Network
Bus Stop Accessibility Upgrade at Rail Stations
Improving the First Mile of American Railroading
Inner Harbor Crosswalk and Bicycle Way
Jones Falls Trail - Phase V
Passerelle Replacement at Rogers Avenue Metro Station

Baltimore City continued

- Patapsco Pedestrian and Bicycle Connection
- Pedestrian Access Improvements at Sharp-Leadenhall & Hamburg Street Light Rail Station
- Potomac Street Cycle Track
- Rehabilitation of the MARC Camden Station
- SRTS Pimlico
- Transit Priority Initiative Belair Road
- Transit Priority Initiative Garrison Blvd

Baltimore County

- Pedestrian Improvements & Connections for Edgemere ES, Sparrows Point MS-HS Warren Rd Light Rail Station SWM Pond Repair and Retrofit

Calvert County

- SRTS Route 261 Safety Upgrades

Carroll County

- SRTS Eldersburg Elementary School (Johnsonville Rd)

Cecil County

- SRTS Jethro Street Sidewalk Installation

Charles County

- Indian Head Boardwalk
- Indian Head Trailhead

Dorchester County

- Cannery Park Trails to Trails
- SRTS Bayly Road Sidewalk

Frederick County

- East Street Rails with Trails
- Golden Mile Multimodal Access

Harford County

- Aberdeen Connectivity Improvements
- Ma and Pa Phase II
- Ma and Pa Phase III

Howard County

- Dobbin and McGaw Road Bike Ped Improvements
- Patuxent Branch Trail

Montgomery County

- Enhancing Bicycle Safety
- Flower Avenue Green Street project
- MD 355 - Clarksburg Shared Path
- North Branch Hiker Biker Trail
- North Stonestreet Avenue and Sidewalk Improvements
- Scott Veirs Shared Use Path
- Sligo Creek Trail
- Takoma Park Improvements 2020
- Towpath Rehabilitation: A Safe Towpath Phase III

Prince George's County

- Central Avenue Phase 1
- Central Avenue Phase 3
- Chamber Ave Green Street
- PG County Bike Share Program - Phase 2+3
- PG County Bike Share Program - Phase One
- SRTS Crittenden

Prince George's County continued
 SRTS US 1 Hollywood
 University Park Traffic Safety Improvements

Somerset County
 RT413 - Hiker Biker Trail-Phase II

St. Mary's County
 MD 5 Pedestrian and Bicycle Trail
 Three Notch Trail, Phase VII

Washington County
 Marsh Run Multi Use Trail
 SRTS Hagerstown Miscellaneous Safety Improvements
 SRTS Haven Rd and Pennsylvania Ave Safety Upgrades
 SRTS Potomac Street at Howard Street
 Towpath Rehabilitation: A Safe Towpath, Phase IV

Wicomico County
 Salisbury Scenic Drive Rails with Trails

Kim Lamphier Bikeways Network Program

Anne Arundel County
 Anne Arundel BWI Odenton Connector
 Broadneck Peninsula Trail (phase 1B)
 Poplar Trail Extension to South Shore Trail
 Areawide Design of Baltimore Greenway Feasibility Study
 Route 413 Hiker Biker Trail

Baltimore City
 Eutaw Street/Place Separated Bike Lane Design
 Melrose Ave Bicycle Blvd

Baltimore County
 Baltimore Wolfe Washington Cycletrack
 Bloomsbury Crossing Design
 Towson Univ Neighborhood Bikeway

Frederick County
 Frederick and Pennsylvania Line Trail, Phase 1

Howard County
 Dobbin Road Pathway
 Downtown Columbia to Stevens Forest Road Pathway Design
 North Laurel Connections Design

Montgomery County
 New Hampshire Ave Bikeway Design
 New Hampshire Avenue Bikeway Design plans
 Prince George's College Park Rhode Island Bike Lane
 Indian Head Rail Trail Extension Feasibility Study

Saint Mary's County
 St. Mary's Three Notch Phase 7
 Statewide Undesignated Funds
 Washington Bicycle Master Plan Implementation - Phase 2
 Park & Street Design - Williamsport, MD
 Wicomico Northwest Salisbury Bikeways, Phase 1

Section 2: MPO Transportation Improvement Programs

This section presents each of the seven MPOs TIPs without change as required by Fixing America's Surface Transportation Act (FAST Act). Please reference the appropriate TIP for all urban area transit and highway projects.

The 2019 STIP and the 2019-2024 CTP, as well as previous STIP/CTPs, can be found on the web through MDOT's Office of Planning and Capital Programming website:

<http://www.mdot.maryland.gov/IncludedContent/New%20MDOT%20Site/tabPages/Projects.html>

- Baltimore Metropolitan Planning Organization includes projects found in the following areas; Carroll, Howard, Anne Arundel, Harford Counties, and Baltimore City. To view all projects located within this MPO please visit, https://www.baltometro.org/sites/default/files/bmc_documents/general/transportation/tip/22-25/22-25TIP.pdf
- Washington Metropolitan Planning Organization includes projects found in the following areas; Frederick, Montgomery, Prince George's and Charles Counties. To view all projects located within this MPO please visit, <https://www.mwcog.org/documents/2020/03/18/fy-2021-2024-transportation-improvement-program/>
- Wilmington Metropolitan Planning Organization includes projects found in the following area, Cecil County. To view all projects located within this MPO please visit, <http://www.wilmapco.org/Tip/fy2020/FY2020-2023TIP.pdf>
- Calvert-St. Mary's Metropolitan Planning Organization includes projects found in the following area, Calvert, St. Mary's County. To view all projects located within this MPO please visit, <http://calvert-stmarysmpo.com/DocumentCenter/View/403/C-SMMPO-FY-2021-2024-TIP--final-signed-document--june-10-2020>
- Cumberland Metropolitan Planning Organization includes projects found in the following area; Allegany County. To view all projects located within this MPO please visit, <https://www.alleganygov.org/DocumentCenter/View/5774/Cumberland-MD-WV-PA-TIP-FY-2022-25-Adopted-March-2021pdf>
- Hagerstown Metropolitan Planning Organization includes projects found in the following area, Washington County. To view all projects located within this MPO please visit, <http://hepmpo.dtstiptool.com/Document>
- Salisbury Wicomico Metropolitan Planning Organization includes projects found in the following area, Wicomico County. To view all projects located within this MPO please visit, https://cb8d0920-d949-40b9-9276-6d6919e1b853.filesusr.com/ugd/5c05e2_f06b6ac7f70d4f2197339e634ebd670e.pdf