

FY 2017-2022 TRANSPORTATION IMPROVEMENT PROGRAM

Preliminary Draft – September 9, 2016

Public Forum on the FY 2017-2022 TIP
September 15, 2016



National Capital Region
Transportation Planning Board

DISTRICT OF COLUMBIA

FY 2017-2022 TIP Tables

Preliminary Draft
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**DISTRICT OF COLUMBIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)**

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Interstate

11th Street Bridges and Interchange Reconstruction

TIP ID: 5554	Agency ID: HTF02A	Title: Garvee Bond Debt Service						Total Cost:	\$82,390
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Facility: NHPP	80/20/0		11,774 c	11,772 c	11,771 c	11,771 c			47,088
From:									
To:									Total Funds: 47,088

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

Rehabilitation of I-395 HOV Bridge over Potomac River

TIP ID: 6187	Agency ID: MRR27A	Title: Rehabilitation of I-395 HOV Bridge over Potomac River						Total Cost:	\$39,250
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Facility: I-395 HOV	NHPP	80/20/0					38,500 c			38,500
From: Over Potomac River										
To: Over Potomac River									Total Funds: 38,500	

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

Rehabilitation of I-66 Ramp to Whitehurst Freeway over Potomac Pkwy and Rock Creek (Bridge No.1303)

TIP ID: 6416	Agency ID:	Title: Rehabilitation of I-66 Ramp to Whitehurst Freeway over Potomac Pkwy and Rock Creek (Total Cost:	\$6,000
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Facility: I-66 Ramp to Whitehurst Freeway over Pot	NHPP	80/20/0			1,000 a	5,000 c			6,000
From: I-66 Ramp									
To: Whitehurst Freeway over Potomac Pkwy an									Total Funds: 6,000

Description: Rehabilitation of the concrete substructures and superstructure and other related miscellaneous repairs of I-66 Ramp to Whitehurst Freeway over Potomac Pkwy and Rock Creek (Bridge No. 1303).

Primary

Anacostia Waterfront Initiative

TIP ID: 5957	Agency ID: AW0, EW002C	Title: Pennsylvania Ave/Potomac Circle						Total Cost:	\$5,750
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Facility: Pennsylvania Ave and Potomac Circle	HSIP	80/20/0					5,750 c			5,750
From:										
To:									Total Funds: 5,750	

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

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

DISTRICT OF COLUMBIA
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Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5723 Agency ID: AW027A Title: St. Elizabeths Campuses Access Improvements									Total Cost: \$108,980

Facility:	GSA Earmark	80/20/0	31,420 c	24,800 c					56,220
From:									
To:									Total Funds: 56,220

Description: Multimodal transportation improvements to accommodate the DHS consolidation at ST. Elizabeths East and West Campuses, and other nearby development. West Campus project will improve access and transportation flow in and around the area. Improvements include I-295 interchange reconfigurations, roadway, safety, ITS and operational improvements to nearby streets. Project details include:

- a. I-295 interchange reconfigurations – I-295/Malcolm X Ave., I-295/South Capitol St.; Malcolm X Ave. east and west of I-295- (PE)
- b. Roadway infrastructure in and around the two campuses – 13th St., Sycamore St., Dogwood St., Pecan St. Cypress St., and West Campus Access Rd. - (PE)
- c. MLK Ave, Malcolm X Ave., Firth Sterling, Alabama Ave. - (PE)

TIP ID: 5802 Agency ID: CD044A Title: Program Manager AWI									Total Cost: \$52,500
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Facility: Citywide	NHPP	80/20/0	7,000 a	6,500 a	6,000 a	5,500 a			25,000
From:									
To:									Total Funds: 25,000

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

TIP ID: 3290 Agency ID: SR049A Title: Reconstruction of Kenilworth Avenue, NE									Total Cost: \$13,050
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Facility: Kenilworth Ave, NE	NHPP	80/20/0	13,050 c						13,050
From: East Capitol St Ramp									
To: Rail Over Pass north of Benning Rd									Total Funds: 13,050

Description: Design of Kenilworth Ave/I295 from East Capitol Street, NE to Penn Rail Road Bridge over pass is a total reconstruction project. The length of the project is about 2,600 both directions. The design project will include upgrade of the existing curb and gutter, replace existing fences, remove the existing temporary Jersey Barriers and replace with permanent Jersey Barriers and address the current hydraulic problem.

South Capitol Street

TIP ID: 6038 Agency ID: Title: Garvee Debt Service									Total Cost:
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Facility:	NHPP	80/20/0	12,320 c	18,030 c	18,030 c	18,030 c			66,410
From:									
To:									Total Funds: 66,410

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

**DISTRICT OF COLUMBIA
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	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3423 Agency ID: AW011, AW024 Title: South Capitol Street Corridor									Total Cost:	\$554,172
Facility: DC		0/100/0		34,420 c	4,294 c	24,303 c				63,017
From: N St, MLK Ave, Suitland Pkwy, Memorial Bri										
To: GARVEE		80/20/0		48,690 c	84,270 c	76,330 c				209,290
	NHPP	80/20/0			22,320 c	22,320 c	22,320 c			66,960
									Total Funds:	339,267

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

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

Secondary

Columbia Road NW, Reconstruction 16th to 18th Streets and Resurface 18th Street to Conn Ave

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6189 Agency ID: MRR24A Title: Columbia Road, NW, Reconstruction 16th to 18th Streets and Resurface 18th Street to C									Total Cost:	\$1,000
Facility: Columbia Road, NW	STP	80/20/0					1,000 a			1,000
From: 16th Street, NW										
To: Connecticut Ave, NW										
									Total Funds:	1,000

Description: Pavement reconstruction from 16th to 18th Street to remove old streetcar tracks and Resurface from 18th Street to Connecticut Ave. Improve curb and gutter, sidewalk, streetlight, traffic signals, upgrade ADA ramps, drainage catch basins, add LID's, median planter and replace trees.

Florida Avenue Transportation Study

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6195 Agency ID: ZU033A Title: Florida Avenue Transportation Study									Total Cost:	\$12,000
Facility: Florida Avenue, NE	STP	80/20/0		1,000 a						1,000
From: 1St Street, NE										
To: H Street, NE										
									Total Funds:	1,000

Description: Implementation of Florida Avenue Transportation Study recommendations, which may include reconstruction of Florida Ave from Benning Rd to New York Ave, safety improvements and streetscape upgrades.

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Maryland Avenue Pedestrian Safety Project

TIP ID: 6014	Agency ID: SR088A	Title: Maryland Avenue NE Road Diet						Total Cost:	\$3,600
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Facility: Maryland Ave. NE	STP	80/20/0		3,300	c				3,300
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From: 2nd Street NE									
To: 15th Street NE								Total Funds:	3,300

Description: To improve pedestrian safety on Maryland Avenue from 2nd Street to 15th Street NE.

Mid City East

TIP ID: 6184	Agency ID: OSS14A	Title: Mid City East						Total Cost:	\$3,000
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Facility: Eckington, Bloomingdale, LeDroit, Hannover	STP	80/20/0		2,500	c				2,500
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From: Eckington									
To: Shaw								Total Funds:	2,500

Description: The Mid City East Livability Study seeks to improve physical connectivity among the neighborhoods of Mid City East and their connections to the opportunities and assets of the larger city. Local transportation networks are envisioned as safe and comfortable for travelers of all ages and abilities, contributing to the health of the community and environment and celebrating local identity. The study covers the neighborhoods of Eckington, Bloomingdale, LeDroit, Hannover-Bates, and parts of Shaw.

Reconstruction of 18th Street, NW from Virginia Ave to Connecticut Ave/M Street

TIP ID: 6412	Agency ID:	Title: Reconstruction of 18th Street, NW from Virginia Ave to Connecticut Ave/M Street						Total Cost:	\$1,000
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Facility: 18th Street NW	STP	80/20/0		1,000	a				1,000
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From: Virginia Ave NW									
To: M Street NW								Total Funds:	1,000

Description: Pavement reconstruction including improvement of curb and gutter, sidewalk, streetlight, traffic signals upgrade ADA ramps, drainage catch basins, LID's, and replace trees.

Reconstruction of 21st Street, NW from Constitution Ave to G Street and from I Street to New Hampshi

TIP ID: 6413	Agency ID:	Title: Reconstruction of 21st Street, NW from Constitution Ave to G Street and From I Street to						Total Cost:	\$1,000
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Facility: 21st Street NW	STP	80/20/0			1,000	a			1,000
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From: Constitution Ave NW / I Street NW									
To: G Street NW / New Hampshire Ave NW								Total Funds:	1,000

Description: Pavement reconstruction including improvement of curb and gutter, sidewalk, streetlight, traffic signals upgrade ADA ramps, drainage catch basins, LID's, and replace trees on 21st Street NW, from Constitution Ave to G Street and from I Street NW to New Hampshire Ave NW

Reconstruction of Columbia Rd NW from Michigan Ave./Park Place to 15th Street

TIP ID: 6415	Agency ID:	Title: Reconstruction of Columbia Rd NW from Michigan Ave NW/Park Place to 15th Street						Total Cost:	\$1,000
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Facility: Columbia Rd NW	STP	80/20/0			1,000	d			1,000
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From: Michigan Ave NW/ Park Place NW									
To: 15th Street NW								Total Funds:	1,000

Description: Pavement reconstruction including improvement of curb and gutter, sidewalk, streetlight, traffic signals upgrade ADA ramps, drainage catch basins, LID's, and replace trees on Columbia Rd NW from Michigan Ave/Park Place to 15th Street NW

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Reconstruction of Harvard Street NW from 16th Street NW to Georgia Ave NW

TIP ID: 6425	Agency ID:	Title: Reconstruction of Harvard Street NW from 16th St NW to Georgia Ave NW							Total Cost:	\$1,000
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Facility: Harvard Street NW	STP	80/20/0								1,000
From: 16th Street, NW									Total Funds:	1,000
To: Georgia Avenue NW										

Description: Pavement reconstruction from Harvard Street from 16th Street to Georgia Ave, Improve Curb and gutter, sidewalk, streetlight, traffic signals, upgrade ADA ramps, drainage catch basins, add LID's median planter and replace trees.

Reconstruction of Kenyon Street NW from Park Place to 13th Street

TIP ID: 6414	Agency ID:	Title: Reconstruction of Kenyon Street NW from Park Place NW to 13th Street NW							Total Cost:	\$6,500
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Facility: Kenyon Street NW	STP	80/20/0			1,000 a	5,500 c				6,500
From: Park Place NW									Total Funds:	6,500
To: 13th Street NW										

Description: Pavement reconstruction including improvement of curb and gutter, sidewalk, streetlight, traffic signals upgrade ADA ramps, drainage catch basins, LID's, and replace trees on Kenyon Street NW from Park Place NW to 13th Street NW

Reconstruction of Ward II

TIP ID: 6493	Agency ID:	Title: Reconstruction of Ward II							Total Cost:	\$10,000
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Facility: 21st Street NW, Florida Ave NW, and Mass	STP	80/20/0					9,000 c			9,000
From:									Total Funds:	9,000
To:										

Description: Reconstruction of Ward II including four locations: 21st Street NW, from O St to Mass Ave, Florida Ave, from Decatur St. to Mass Ave. NW, Mass Ave NW from 20th St to 23rd St., and Mass Ave NW from Decatur St to Belmont St. Pavement reconstruction including improvement of curb and gutter, sidewalk, streetlights, traffic signals, upgrade ADA ramps, drainage catch basins, LID's and replace trees.

Safety Improvements of 22nd and I NW

TIP ID: 6492	Agency ID:	Title: Safety Improvements of 22nd and I NW							Total Cost:	\$400
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Facility: Pennsylvania Ave, NW	HSIP	80/20/0					350 c			350
From: 22nd Street NW									Total Funds:	350
To: I Street NW										

Description: Safety improvements of 22nd and I Street, NW. Improve curb and gutter, sidewalk, streetlights, mtraffic signals, upgrade ADA rampsdrainage catch basins, a LIDs.

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Bike/Ped

District-wide Bicycle and Pedestrian Management Program

TIP ID: 3232	Agency ID: CM064A, ZUT0	Title: Bicycle and Pedestrian Management Program	Total Cost:						
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Facility: Citywide	CMAQ	80/20/0	1,165 c	605 c	165 c	165 c			
From:									Total Funds: 2,100
To:									2,100

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

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

East Capitol Street Pedestrian Safety Project

TIP ID: 6315	Agency ID: SR086A	Title: East Capitol Street Corridor Mobility & Safety Plan	Total Cost: \$3,800						
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Facility: Street	STP	80/20/0					3,300 c		
From:									Total Funds: 3,300
To:									3,300

Description: Design and Construct pedestrian safety and traffic operations improvements

Metropolitan Branch Trail

TIP ID: 3228	Agency ID: AF073A, ZU024	Title: Metropolitan Branch Trail	Total Cost: \$7,432						
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Facility: Union Station District Line	CMAQ	80/20/0					3,300 c		
From:									3,300
To:	DEMO	80/20/0					300 a		
									Total Funds: 3,600

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

- a. L & M St.
- b. Ft. Totten

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National Recreational Trails

TIP ID: 2796	Agency ID: AF066A	Title: National Recreational Trails						Total Cost:		\$2,100
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Facility: Citywide	NRT	80/20/0		300 a	300 a	300 a	300 a			1,200
From:										
To:										
									Total Funds:	1,200

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

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

TIP ID: 6230	Agency ID: ZU010A	Title: New York Avenue Trail						Total Cost:		\$3,600
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Facility: Paved trail/sidewalk	CMAQ	80/20/0		3,300 c						3,300
From:										
To:										
									Total Funds:	3,300

Description: Design and build a new trail along New York Avenue NE.

Rock Creek Park Trail

TIP ID: 3230	Agency ID: AF005A	Title: Rock Creek Park Trail						Total Cost:		\$8,550
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Facility: M Street to Beach Drive	CMAQ	80/20/0		5,050 c						5,050
From: Piney Branch Pkwy										
To: 16th Street										
									Total Funds:	5,050

Description: Rehabilitate the paved trail in Rock Creek Park including selected widening, resurfacing, new connections, and a new bridge south of the Zoo tunnel. Retaining wall repair on Piney Branch.

Safe Routes to School

TIP ID: 2888	Agency ID: CM086A	Title: Safe Routes to School						Total Cost:		\$10,406
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Facility: Safe Routes to School	SRTS	100/0/0		1,151 c	1,151 c	1,151 c	1,151 c			4,604
From:										
To:										
									Total Funds:	4,604

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

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

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South Capitol Street Trail

TIP ID: 6114	Agency ID: ZUT10C	Title: South Capitol Street Trail							Total Cost:	
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Facility:	CMAQ	80/20/0			9,700 c				9,700
From:									
To:									Total Funds: 9,700

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

Bridge

Anacostia Freeway Bridges over Nicholson Street SE

TIP ID: 6082	Agency ID: MRR15A	Title: Anacostia Freeway Bridges over Nicholson Street SE (Bridges #1001, 1002							Total Cost:	\$8,000
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Facility:	Anacostia Freeway Bridges at Nicholson	NHPP	80/20/0	9,500 c					9,500
From:									
To:									Total Funds: 9,500

Description: Rehabilitation of subject bridges to eliminate all deficiencies and to make the facility safe for the traveling public. Two bridges are structurally deficient and must be rehabilitated under the requirements of MAP21.

H Street Bridge over Amtrak

TIP ID: 6039	Agency ID: CD054A	Title: H Street Bridge over Railroad							Total Cost:	\$22,750
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Facility:	H Street NE	NHPP	80/20/0	4,250 c	6,500 c	12,000 c			22,750
From:	North Capitol Street								
To:	3rd Street NE								Total Funds: 22,750

Description: Conduct environmental assessments. Prepare concept designs, design plans and specifications and construct documents for bridge replacement/rehabilitation. Includes work on the H Street NE Bridge from North Capitol St. to 3rd St. NE.

Rehabilitation of 14th Street, SW Bridge over Streetcar Terminal

TIP ID: 6426	Agency ID:	Title: Rehabilitation of 14th Street, SW Bridge over Streetcar Terminal							Total Cost:	\$6,000
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Facility:	14 Street SW Bridge over Streetcar Terminal	NHPP	80/20/0	5,500 c					5,500
From:									
To:									Total Funds: 5,500

Description: Rehabilitation of the concrete substructures and superstructure and other related miscellaneous repairs.

Rehabilitation of K Street NW Bridge, over Whitehurst Freeway Ramp (Bridge No. 1304)

TIP ID: 6417	Agency ID:	Title: Rehabilitation of K Street NW Bridge, over Whitehurst Freeway Ramp (Bridge No. 1304)							Total Cost:	\$7,000
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Facility:	K Street Bridge over Whitehurst Freeway Ramp	NHPP	80/20/0	1,000 a	6,000 c				7,000
From:									
To:									Total Funds: 7,000

Description: Rehabilitation of the concrete substructures and superstructure and other related miscellaneous repairs on K Street NW Bridge, over Whitehurst Freeway Ramp (Bridge No. 1304).

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Roadway and Bridge Improvement on Southern Avenue and Winkle Doodle Branch Bridge										
TIP ID: 5353 Agency ID: ED028A Title: Roadway and Bridge Improvement on Southern Avenue and Bridge #64 (over Winkle Do										Total Cost: \$19,100
Facility: Southern Avenue	STP	80/20/0		15,100 c						15,100
From: South Capitol Street										
To: 23rd Street										
										Total Funds: 15,100
Description: The purpose of this project is to identify solutions that improve the livability of the Southern Avenue corridor from South Capitol Street SE to 23rd Street SE.										

Enhancement										
Transportation Alternatives Program										
TIP ID: 3210 Agency ID: AF049A Title: Transportation Alternatives Program										Total Cost: \$8,050
Facility: Citywide	TAP	80/20/0		1,150 a	1,150 a	1,150 a	1,150 a			4,600
From:										
To:										
										Total Funds: 4,600
Description: The Transportation Enhancements program is federally funded through the Transportation Equity Act for the 21st Century (TEA-21). The program funds projects that aim to strengthen the cultural, aesthetic, and environmental aspects of the nation's intermodal transportation system. Categories include pedestrian and bicycle facilities, scenic and historic preservation, archeological research, and environmental mitigation of runoff pollution.										

ITS										
Traffic Operations Improvements Citywide										
TIP ID: 3216 Agency ID: OSS07A, CI060 Title: Traffic Operations Improvements Citywide										Total Cost:
Facility:	NHPP	80/20/0		477 c	477 c	477 c	477 c			1,908
From:										
To:	STP	80/20/0		1,000 a	1,000 a	1,000 a	1,000 a			37,950
				7,900 c	8,000 c	8,000 c	8,000 c			
				600 e	550 e	500 e	400 e			
										Total Funds: 39,858
Description: This project modifies and improves vehicular and pedestrian traffic control systems, such as traffic signals, channelization, signs, pavement markings, and other traffic control measures on and off the Federal-aid highway system. Includes installation of a variety of traffic engineering devices and construction of nominal geometric alterations. The project will preserve and promote the efficient use of existing city streets through changes in the organization of vehicular and pedestrian traffic flows. Projects include:										

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

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Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6283 Agency ID: PM0A4A Title: Managed Lanes									Total Cost: \$21,309

Facility: Rochambeau Bridge, I-395, SW/SE Freeway NHPP 80/20/0 5,309 a 5,309

From: _____
To: _____ **Total Funds: 5,309**

Description: The project is to perform a high level feasibility review to identify any potential flaws or major obstacles to completing the project as a public-private partnership (P3) and lay out the critical path to moving the project forward. Phase I: to include NEPA, design, and construction for Rochambeau Bridge. Phase II: to include NEPA, design, and construction for the SE/SW Freeway. Phase III: to include NEPA, design, and construction of I-295.

Traffic Signal LED Replacement

TIP ID: 6115 Agency ID: CI040A Title: Traffic Signal LED Replacement									Total Cost: \$8,400
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Facility: NHPP 80/20/0 540 c 540 c 540 c 540 c 2,160

From: _____
To: STP 80/20/0 540 c 540 c 540 c 540 c 2,160

Total Funds: 4,320

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

Other

Asset Condition Assessment

TIP ID: 5323 Agency ID: MNT06A, SR09 Title: Condition Assessment									Total Cost:
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Facility: citywide STP 80/20/0 1,000 a 650 a 1,000 a 650 a 3,300

From: citywide _____
To: _____ **Total Funds: 3,300**

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

Cleveland Park Study

TIP ID: 6193 Agency ID: PM0D7A Title: Cleveland Park Study									Total Cost:
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Facility: Connecticut Ave. NW NHPP 80/20/0 2,415 c 2,415

From: Porter Street NW _____
To: Macomb Street NW _____ **Total Funds: 2,415**

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Planning and Management Systems										
TIP ID: 3213 Agency ID: CAL16C, PM30 Title: Planning and Management Systems									Total Cost: \$49,377	
Facility: Citywide	CMAQ	80/20/0		149 a	153 a	198 a	157 a			657
From:										
To:	HSIP	80/20/0		381 a	392 a	404 a	416 a			1,593
	SPR	80/20/0		6,500 a	7,000 a	6,500 a	7,000 a			27,000
	STP	80/20/0		3,080 a	2,280 a	2,380 a	2,130 a			9,870
									Total Funds: 39,120	

- Description:
- a. ADA Ramps
 - b. Asset Inventory and ADA Compliance
 - c. Civil Rights/EEO Compliance Monitoring Program
 - d. Climate Change and Air Quality
 - e. Constructability and Work Zone Safety Review
 - f. DBE Support Services
 - g. District STIP Development
 - h. Environmental Management System
 - i. Metropolitan Planning
 - j. State Planning and Research Program
 - k. Boundary Stones
 - l. Research Development and Technology
 - m. Audit and Compliance
 - n. Non-Destructive Concrete Tester and Surveyor
 - o. Utility Location 3D Data Repository
 - p. Research and Innovation Implementation and Evaluation
 - q. Summer Transportation Institute
 - r. Bus Stop ADA Improvements

TIP ID: 5322 Agency ID: CM085A Title: Preventive Maintenance and Repair of Stormwater Pumping Stations									Total Cost: \$3,336	
Facility:	CMAQ	80/20/0		600 a	650 a	700 a	750 a			2,700
From:										
To:	DC	0/100/0		1,000 a	1,000 a					2,000
									Total Funds: 4,700	

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

TIP ID: 3355 Agency ID: PM086A Title: Professional Capacity-Building Strategy									Total Cost: \$7,000	
Facility: Citywide	STP	80/20/0		1,000 a	1,000 a	1,000 a	1,000 a			4,000
From:										
To:										
									Total Funds: 4,000	

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Rehabilitation of Anacostia Freeway Bridges over South Capitol Street (Bridge No. 1016 & 1017)

TIP ID: 6097	Agency ID: MRR14A	Title: Rehabilitation of Anacostia Freeway Bridges over South Capitol Street (Bridge No. 1016 & 1017)						Total Cost:	\$21,000
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Facility: Anacostia Freeway over South Capitol Street	NHPP	80/20/0								
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From:										
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To: **Total Funds: 20,000**

Description: Rehabilitation or replacement of subject bridges to eliminate all structural deficiencies and to make the facilities safe for the traveling public. The bridges are structurally deficient and must be rehabilitated under the requirements of MAP21.

Roadside Improvements Citywide

TIP ID: 5792	Agency ID: ED0C2A	Title: C Street NE Implementation						Total Cost:	
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Facility: C Street/N. Carolina Avenue	STP	80/20/0								
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From: Oklahoma Avenue										
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To: 14th Street NE **Total Funds: 4,000**

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

Roadway Reconstruction Citywide

TIP ID: 2965	Agency ID: SR060A MRR1	Title: Roadway Reconstruction Citywide						Total Cost:	\$53,900
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Facility: CITYWIDE	NHPP	80/20/0								
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From:										
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To:	STP	80/20/0								
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Total Funds: 43,000

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

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Safety Improvements										
TIP ID: 3212 Agency ID: CB0, CIO Title: Safety Improvements Citywide										Total Cost:
Facility: Citywide	HSIP	90/10/0		3,000 a	3,000 a	3,000 a	3,000 a			14,260
From:				565 c	565 c	565 c	565 c			
To:	STP	80/20/0		560 a	560 a	560 a	560 a			3,740
				375 c	375 c	375 c	375 c			
Total Funds:										18,000

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

- a. City-Wide Traffic Safety
- b. CW Road Safety Audit Program
- c. Pavement Skid Testing
- d. Traffic Accident Reporting and Analysis System (TARAS)
- f. Traffic Safety Data Center at Howard University
- g. Traffic Safety Design Program - HSIP
- h. Traffic Safety Engineering Support Services
- i. Traffic Sign Inventory Upgrade
- j. Traffic Data Collection and Analysis Service
- k. Work Zone Project Management System (CWTMP)
- l. 16th Street NW Circle (Blair Circle) Improvements
- m. Alabama Avenue SE Safety Study

TIP ID: 6240 Agency ID: MRR01A Title: Safety and Geometric Improvements of I-295										Total Cost: \$11,500
Facility: I-295/DC-295	NHPP	80/20/0				2,500 c	6,500 c			9,000
From:										
To:										Total Funds: 9,000

Description: Safety and geometry improvement of I295/DC 295. Work includes upgrade substandard ramps, extend merge area & acceleration lane, review slip ramps, complete missing interchange movements, reduce congestion, provide access for vehicular traffic, pedestrian and cyclists that include, road configuration, sidewalk improvement, pavement markings, median, island, traffic signal, signs, street lighting, and guardrails at interchanges along I-295/DC 295 between Eastern Avenue and Chesapeake St.

- a. DC 295/ Eastern Ave NE
- b. DC 295/ Nannie Helen Burroughs Avenue from Sheriff Road NE/ Minnesota Avenue NE to Kenilworth Avenue NE/ Kenilworth Terrace NE
- c. DC 295/ Benning Rd, SE
- d. DC 295/ East Capitol St, SE
- e. DC 295/ Pennsylvania Ave, SE
- f. South Capitol Street to I-295 southbound toward Overlook Avenue, SW
- g. DC 295/ Chesapeake St, SW
- h. Kenilworth Avenue NE
- i. DC 295 Mainline Improvements

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Streetscape

TIP ID: 2922	Agency ID: ED064A	Title: Great Streets - Minnesota Ave, NE							Total Cost:	\$15,000
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Facility: Minnesota Ave	STP	80/20/0	14,000	c					14,000
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From: A Street, NE									Total Funds:	14,000
To: Sheriff Road, NE										

Description: Reconstruction of Minnesota Avenue from A St., SE to Sheriff Rd., NE including LIDs, streetscape. Schedule is impacted by Benning Streetcar study. Project will be phased to mitigate impacts. Phase 1 will construct from A St. to just south of Benning Road; Phase 2 will follow when streetcar study produces direction as to track route.

Traffic Congestion Mitigation

TIP ID: 2945	Agency ID: CM074A	Title: District TDM (goDCgo)							Total Cost:	\$7,000
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Facility: citywide	CMAQ	80/20/0	1,000	a	1,000	a	1,000	a	1,000	a	4,000
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From:									Total Funds:	4,000
To:										

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

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Traffic Signal Maintenance										
TIP ID: 5347 Agency ID: CI046A, CI047 Title: Traffic Signal Maintenance NHPP-STP									Total Cost: \$59,000	
Facility: Citywide	HSIP	90/10/0		500 c	1,000 c	1,000 c	1,000 c			3,500
From: Citywide	NHPP	80/20/0		2,420 c	2,450 c	2,480 c	2,510 c			9,860
To: Citywide	STP	80/20/0		1,250 a	1,750 a	1,750 a	1,750 a			28,100
				5,650 c	5,650 c	5,150 c	5,150 c			
Total Funds:										41,460

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

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

- a. Citywide Traffic Signal Construction Contract
- b. Citywide Traffic Signal Construction Contract (National Highway System Routes)
- c. Traffic Signal Consultant Design
- d. Traffic Signal Optimization
- e. Traffic Signal Uninterruptible Power Supply
- f. Traffic Signal Maintenance - NHPP
- g. Traffic Signal Maintenance - STP
- h. Asset Inventory, Preliminary Design and RFP Development for Improved Signal System and Communication Network
- i. Traffic Signal Systems Analysis
- J. Implementation of Freeway Traffic Management System

Urban Forestry Program										
TIP ID: 5313 Agency ID: CG311, CG312, Title: Urban Forestry Program									Total Cost: \$10,800	
Facility: Citywide	NHPP	80/20/0		1,512 c		1,512 c				3,024
From:	STP	80/20/0		2,088 c		2,088 c				4,176
To:										
Total Funds:										7,200

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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TERMs

Transportation Emissions Reduction Measures

TIP ID: 3219	Agency ID: ZU022A	Title: Commuter Connections Program	Total Cost:	\$4,900
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Facility:	CMAQ	80/20/0	700 a	700 a	700 a	700 a		2,800	
From:								Total Funds:	2,800
To:									

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

Maintenance

Bloomington/LeDroit Park Medium Term Flood Mitigation Project

TIP ID: 6190	Agency ID: FLD01	Title: Bloomington/LeDroit Park Medium Term Flood Mitigation Project	Total Cost:	\$10,000
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Facility: Bloomington/LeDroit Park	DC	0/100/0	500 a	500 a				4,000	
From:									
To:									
								Total Funds:	4,000

Description: The exact street locations are not known at this time but the work is confined to the Bloomington and LeDroit Park communities, per the Mayor's Task force on Bloomington/LeDroit Flood Mitigation Report.

Bridge Replacement/Rehabilitation Program

TIP ID: 6427	Agency ID:	Title: Kenilworth Terrace Bridge over Watts Branch	Total Cost:	\$3,125
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Facility: Kenilworth Terrace Bridge over Watts Branch	STP	80/20/0				250 a		250	
From:									
To:									
								Total Funds:	250

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

TIP ID: 5298	Agency ID: AF067A	Title: Emergency Transportation Project	Total Cost:	\$175
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Facility: C ITYWIDE	STP	80/20/0	25 c	25 c	25 c	25 c		100	
From:									
To:									
								Total Funds:	100

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3202 Agency ID: CD032C, MNT0 Title: Bridge Design Consultant Services									Total Cost:	\$4,075
Facility: CITYWIDE	NHPP	80/20/0		1,550 a	300 a	625 a	650 a			3,125
From:										
To:	STP	80/20/0		200 a	200 a					400
Total Funds:										3,525

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

FY2013 Citywide Open End Bridge Design Consultant Services under this contract, the consultant will investigate structural deficiencies encountered during bridge inspections and from observation of DDOT staff. They will propose and design solutions for temporary shoring, structural repair and retrofit, perform structural analyses and rating of bridges, prepare plans, details, special provisions, cost estimates and work orders for construction by the DDOT preventive maintenance contractor.

TIP ID: 5342 Agency ID: CD046A Title: Approach Bridges to 14th Street Bridge									Total Cost:	
Facility: 14th Street Bridge northbound over the Poto	NHPP	80/20/0		23,500 c						23,500
From:										
To:										Total Funds: 23,500

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

TIP ID: 5337 Agency ID: CD051A Title: Replacement of Pedestrian Bridges over Kenilworth Ave									Total Cost:	\$16,500
Facility: Kenilworth	STP	80/20/0			9,000 c					9,000
From:										
To:										Total Funds: 9,000

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

TIP ID: 5334 Agency ID: CD052A Title: Safety Improvements of Benning Road Bridges over Kenilworth Ave									Total Cost:	\$23,000
Facility: Benning Road over Kenilworth	NHPP	80/20/0		20,000 c						20,000
From:										
To:										Total Funds: 20,000

Description: Structural design of three bridge alternatives. The project scope includes infrastructure improvements within vicinity of the bridges, including construction of handicap ramps according to ADA guidelines.

TIP ID: 5316 Agency ID: CD062A Title: Impact Attenuators and Guiderails									Total Cost:	
Facility: Citywide	HSIP	90/10/0			1,675 c	1,700 c	1,700 c			5,075
From:										
To:										Total Funds: 5,075

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3243 Agency ID: CD062A Title: Citywide Consultant Bridge Inspection									Total Cost: \$13,150

Facility:	NHPP	80/20/0	1,850 a	1,850 a	3,750 a				7,450
From:									
To:									Total Funds: 7,450

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

TIP ID: 5804 Agency ID: MRR04A Title: East Capitol St. Bridge over Anacostia River, Br. # 233									Total Cost: \$16,000
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Facility: Anacostia Freeway Bridge over Anacostia Ri	NHPP	80/20/0				16,000 a			16,000
From:									
To:									Total Funds: 16,000

Description: Rehabilitation of subject bridge to eliminate all deficiencies and ensure the safety of the traveling public. This bridge is structurally deficient and must be rehabilitated in accordance with the requirements of MAP21. Deficiencies include deteriorating overlay, efflorescence and map cracking in soffit, expanded bearings, deteriorated superstructure steel under fender dams, peeling paint, rotation of substructure units.

TIP ID: 5433 Agency ID: PM094A, CD05 Title: Bridge management Project/AASHTOWARE									Total Cost: \$2,125
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Facility: Citywide	NHPP	80/20/0	300 a	325 a	325 a	325 a			1,275
From: Citywide									
To: STP		80/20/0	300 e	300 e	310 e	310 e			1,220
								Total Funds: 2,495	

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

Maintenance of Stormwater management / Best Management Ponds

TIP ID: 3242 Agency ID: CA303C, MNT0 Title: Maintenance, Rehab and Reconstruction of Stormwater-Hydraulic Structures and Flood									Total Cost: \$3,215
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Facility:	STP	80/20/0		350 a					1,100
From:									
To:									Total Funds: 1,100

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Resurfacing Streets and Freeways Citywide

TIP ID: 5339	Agency ID: SR037A	Title: FY2012 Pavement Restoration - NHPP Streets						Total Cost: \$29,350	
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Facility:	NHPP	80/20/0		150 a	5,200 c					11,350
From:				6,000 c						
To:										Total Funds: 11,350

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

TIP ID: 3215	Agency ID: SR092A	Title: Federal Aid Pavement Restoration						Total Cost: \$65,100	
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Facility: Citywide	STP	80/20/0		9,300 c	9,300 c	9,300 c	9,300 c			37,200
From:										Total Funds: 37,200
To:										

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

Streetlight Asset Mgmt & Streetlight Construction - Federal

TIP ID: 5439	Agency ID: AD017A	Title: Citywide streetlight construction						Total Cost:	
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Facility: citywide	STP	80/20/0		100 a	100 a	100 a	100 a			4,000
From: citywide				900 c	900 c	900 c	900 c			
To:										Total Funds: 4,000

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

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

			Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 5385 Agency ID: AD020A			Title: Streetlight Asset Mgmt - Federal			Total Cost:							
Facility: Citywide		NHPP	80/20/0			3,384 c	3,384 c	3,384 c	3,384 c			13,536	
From:													
To:		STP	80/20/0			5,383 c	5,383 c	5,383 c	5,383 c			21,532	
												Total Funds:	35,068

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

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

Streetlight Asset Mgmt & Streetlight Construction - Local													
TIP ID: 5350 Agency ID: AD304			Title: Streetlight Asset Mgmt & Streetlight Construction - Local			Total Cost: \$10,500							
Facility: Citywide		DC	0/100/0			300 a	300 a	300 a	300 a			34,800	
From:						8,400 c	8,400 c	8,400 c	8,400 c				
To:													
												Total Funds:	34,800

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

Systems Maintenance													
TIP ID: 2699 Agency ID: CD018A, CD01			Title: Asset Preservation of Tunnels in the District of Columbia			Total Cost: \$41,275							
Facility: Citywide Asset Management of Tunnel		NHPP	80/20/0			1,000 a	175 a	175 a	175 a			31,325	
From:						7,600 c	7,600 c	14,600 c					
To:													
												Total Funds:	31,325

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 2927 Agency ID: CD036A, CD04 Title: Citywide FA Preventive Maintenance									Total Cost:	\$44,100
Facility:	NHPP	80/20/0		4,800 c	10,720 c		5,360 c			20,880
From:										
To:	STP	80/20/0		1,200 c	2,680 c		1,340 c			5,220
Total Funds:										26,100

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

Transit												
5303/5304 FTA Program												
TIP ID: 6102 Agency ID:									Title: 5303/5304 FTA Program		Total Cost:	\$2,874
Facility: Citywide	Sect. 5303	80/20/0		415 a	415 a	415 a	415 a			1,660		
From:												
To:	Sect. 5304	80/20/0		110 a	110 a	110 a	110 a			440		
Total Funds:										2,100		

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

DC Circulator New Buses for Replacement and Expansion												
TIP ID: 6105 Agency ID:									Title: DC Circulator New Buses for Replacement and Expansion		Total Cost:	\$8,925
Facility:	DC	0/100/0		17,600 e		7,100 e				24,700		
From:												
To:												
Total Funds:										24,700		

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

DC Circulator Expansion - Phase I												
TIP ID: 6103 Agency ID:									Title: DC Circulator Expansion - Phase I		Total Cost:	\$3,750
Facility:	DC	0/100/0		750 e	750 e	750 e	750 e			3,000		
From:												
To:												
Total Funds:										3,000		

Description: Implement the Phase I DC Circulator routes as identified in the DC Circulator 10-Year Transit Development Plan

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Streetcar

TIP ID: 5754	Agency ID: CM080A	Title: Benning Road Extension						Total Cost: \$82,750	
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Facility: Streetcar Line	DC	0/100/0		23,614 c	27,363 c	21,644 e			92,217
From:					19,596 e				
To:									Total Funds: 92,217

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

TIP ID: 5755	Agency ID: STC12A	Title: Union Station to Georgetown Premium Transit; K Street Transit						Total Cost: \$76,290	
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Facility: Premium Transit	DC	0/100/0			24,280 c	45,014 c			69,294
From:									
To:	NHPP	80/20/0		7,500 a	31,500 c	34,875 c			73,875
								Total Funds: 143,169	

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

Freight

District Freight Plan

TIP ID: 5922	Agency ID: AF081A	Title: District Freight Plan						Total Cost: \$300	
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Facility: Citywide	STP	80/20/0		150 a		150 a			300
From:									Total Funds: 300
To:									

Description: Development of a District freight plan to enhance the safety and efficiency of goods movement

Off-Hours Freight Delivery Pilot Project

TIP ID: 6408	Agency ID:	Title: Off-Hours Freight Delivery Pilot Project						Total Cost: \$300	
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Facility:	HRDP	50/50/0		140 a					140
From:									Total Funds: 140
To:									

Description: The DDOT Off-Hours Freight Delivery Pilot Project will focus on improving the management of curbside loading zones in the city by incentivizing businesses to shift to off-hour deliveries. The District has a constrained infrastructure with multiple modes competing for use of the same space and DDOT believes that a focus on encouraging off-hour deliveries would contribute significantly to reducing congestion.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Planning and Systems Enhancement for Weight Stations

TIP ID: 2633	Agency ID: CI029A, CI053	Title: Size and Weight Enforcement Program							Total Cost:	\$11,280
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Facility: Citywide	STP	80/20/0	5,000 c	450 c	450 c	250 c			6,150
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From:									Total Funds:	6,150
To:										

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

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

Virginia Avenue Tunnel Project

TIP ID: 5959	Agency ID: MRR16A	Title: Virginia Avenue Tunnel Project							Total Cost:	\$201,300
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Facility: Virginia Ave. SE	PRIV	0/0/0	1,200 c	1,200 c					2,400
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From:									Total Funds:	2,400
To:										

Description: The existing railway tunnel is owned and operated by CSX Transportation, Inc. (CSXT) and has long been identified as one of the most significant freight bottlenecks on the East Coast. CSXT proposes to improve freight transportation reliability and capacity through the District by replacing the existing 106 year old 4,000 foot-long tunnel. The proposal includes the restoration of a second track within the tunnel and increasing the tunnel height to a minimum 20 foot clearance to accommodate intermodal trains transporting double-stacked standard cargo containers.

SUBURBAN MARYLAND

FY 2017-2022 TIP Tables

Preliminary Draft
September 9, 2016



National Capital Region
Transportation Planning Board

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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MDOT/State Highway Administration

Interstate

I-270 at Watkins Mill Road Interchange

TIP ID: 3044	Agency ID: MO3511	Title: I-270 at Watkins Mill Road Interchange Construction	Complete: 2020	Total Cost: \$129,742
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Facility: I 270 at Watkins Mill Road	NHPP	100/0/0	68 b	1,096 b	1,096 b	973 b			3,233
From:									
To:	State	0/100/0		30,422 c	42,317 c	35,892 c			108,631

Total Funds: 111,864

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

I-270/I-495 West Side Corridor

TIP ID: 6444	Agency ID: MO0691	Title: I-270 Innovative Congestion Management	Complete: 2021	Total Cost: \$100,000
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Facility: I 270	State	0/100/0	1,500 a	18,462 c	26,513 c	26,546 c	19,530 c		98,500
From: I 495			5,949 c						
To: I 70									

Total Funds: 98,500

Description: Pilot implementation of active traffic management (ATM) and innovative congestion mitigation (ICM) tools to reduce congestion on I-270, including the east and west spurs (31.5 miles).

TIP ID: 6432	Agency ID: MO8382	Title: I-495, Capital Beltway, American Legion Bridge Planning Study	Complete: 2030	Total Cost:
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Facility: I 495	State	0/100/0	1,250 a	1,250 a	1,250 a	820 a			4,570
From: Northern terminus of I-495 HOT lane facility									
To: I 270									

Total Funds: 4,570

Description: I-495 reconstruction between the Potomac River and I-270 and I-270 Spur reconstruction between I-495 and I-270.

I-270/US 15 Corridor

TIP ID: 6431	Agency ID: FR1881	Title: US 15/US 40 Frederick Freeway Highway Reconstruction	Complete: 2030	Total Cost:
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Facility: US 15 /US 40	State	0/100/0	1,000 a	1,674 a	1,250 a	550 a			4,474
From: I 70									
To: MD 26									

Total Funds: 4,474

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
I-70/US 40 at MD 144FA, Meadow Road, and Old National Pike Interchange										
TIP ID: 6411 Agency ID: FR5801 Title: I-70/US 40 at MD 144FA, Meadow Road, and Old National Pike Interchan Complete: 2022 Total Cost: \$32,800										
Facility: I 70 at MD 144FA	Local	0/0/100		300 b	300 b	8,250 c	8,250 c			23,600
From:					6,500 c					
To:	PRIV	0/0/0		2,000 a	900 a					2,900
Total Funds:										26,500

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

I-95/I-495 at Greenbelt Metro Station Interchange										
TIP ID: 2894 Agency ID: PG3331 Title: I-95/I-495 at Greenbelt Metro Station Interchange Construction Complete: 2020 Total Cost: \$167,107										
Facility: I 95 at Greenbelt Metro Station	NHPP	100/0/0		1,764 a	22,448 c	31,808 c	34,045 c	28,697 c		118,762
From:										
To:	State	0/100/0		498 a	2,000 b	3,232 b	3,225 b	8,095 c		42,240
				283 b	6,332 c	8,972 c	9,603 c			
Total Funds:										161,002

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

MD 5 at I-95/I-495 Interchange										
TIP ID: 3554 Agency ID: PG4941 Title: MD 5 at I-95/I-495 Phase 2 Highway Reconstruction Complete: 2020 Total Cost: \$48,154										
Facility: MD 5	NHPP	100/0/0		626 b	811 b	517 b	250 b			9,065
From: I 95				6,861 c						
To: Branch Avenue Metro Station	State	0/100/0		291 b	291 b	121 b				2,443
				1,740 c						
Total Funds:										11,508

Description: Construction of MD 5 Phase 2 improvements, improving access to Branch Avenue Metro Station, including access road improvements; MD 5 pedestrian bridge; and Auth Road, Auth Place, and Auth Way improvements.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Primary									
MD 210 Corridor									
TIP ID: 4879 Agency ID: PG7001 Title: MD 210 at Kerby Hill Road/Livingston Road			Complete: 2020				Total Cost: \$115,389		
Facility: MD 210 at Kerby Hill Road/Livingston Road	NHPP	100/0/0	1,094 b	1,094 b	1,094 b	1,003 b			63,464
From:			15,798 c	17,807 c	23,593 c	1,981 c			
To:									
	State	0/100/0	1,174 b	526 b	274 b	251 b			23,121
			5,603 c	6,296 c	8,287 c	710 c			
Total Funds:									86,585

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

MD 4 at Suitland Parkway Interchange									
TIP ID: 3547 Agency ID: PG6181 Title: MD 4 at Suitland Parkway Interchange Construction			Complete: 2022				Total Cost: \$140,314		
Facility: MD 4 at Suitland Parkway	HPP	100/0/0		10,000 c					10,000
From:									
To:	NHPP	100/0/0	257 a	1,135 b	2,500 b	29,049 c			55,124
			2,083 b	2,411 c	17,355 c				
			334 c						
	PL	100/0/0	5,000 c						5,000
	State	0/100/0	272 a	3,582 b	3,621 b	2,766 b			31,338
			3,376 b	2,063 c	3,305 c	10,559 c			
			1,794 c						
	STP	100/0/0	649 a						649
Total Funds:									102,111

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
MD 5 Corridor											
TIP ID: 4882 Agency ID: PG1751		Title: MD 5 at MD 373 and Brandywine Road Interchange Construction					Complete: 2017		Total Cost: \$55,532		
Facility: MD 5 at MD 373 and Brandywine Road	HPP	100/0/0		2,820 c	3,928 c	4,121 c	2,989 c			13,858	
From:											
To:	NHPP	100/0/0		2,820 c	3,929 c	4,122 c	2,990 c			13,861	
	State	0/100/0		999 b	736 b	4,483 c	3,252 c			16,810	
				3,067 c	4,273 c						
	TCSP	100/0/0		192 b	95 b					287	
Total Funds:										44,816	

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

TIP ID: 3469 Agency ID: PG3916		Title: MD 5 Corridor Study					Complete: 2025		Total Cost: \$715,700		
Facility: MD 5	State	0/100/0		130 a						130	
From: US 301											
To: I 95											
Total Funds:										130	

Description: A study to upgrade MD 5 to a multilane freeway from US 301 at T.B. to north of I-95/I-495.

TIP ID: 6395 Agency ID: PG5971		Title: MD 5 at Linda Lane Intersection Improvements					Complete: 2025		Total Cost: \$16,300		
Facility: MD 5 at Linda Lane	NHPP	100/0/0		1,000 a	750 a	742 a				2,492	
From:											
To:											
Total Funds:										2,492	

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



US 1 Corridor											
TIP ID: 3108 Agency ID: PG6241		Title: US 1 Highway Reconstruction					Complete: 2022		Total Cost: \$49,804		
Facility: US 1	State	0/100/0		2,000 b	4,829 b	1,421 b	8,709 c	9,826 c	10,107 c	40,481	
From: College Avenue						3,589 c					
To: I 95	STP	100/0/0		1,200 a	994 a	800 a				2,994	
Total Funds:										43,475	

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
US 15 at Monocacy Boulevard Interchange									
TIP ID: 4892 Agency ID: FR5711 Title: US 15 at Monocacy Boulevard Interchange Construction			Complete: 2017		Total Cost: \$60,792				
Facility: US 15 at Monocacy Boulevard	NHPP	100/0/0	1,920 b	773 b	108 b				2,801
From:									
To: State	0/100/0		1,040 b	561 b	27 b				26,919
			13,410 c	11,881 c					
Total Funds:									29,720

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

US 29 Corridor									
TIP ID: 6389 Agency ID: MO4253 Title: US 29 at Stewart Lane, Tech Road, Greencastle Road, and Blackburn R			Complete: 2040		Total Cost: \$390,900				
Facility: US 29 at Stewart Lane, Tech Road, Greenca	PL	100/0/0			420 a				420
From:									
To:									Total Funds: 420

Description: Construction of new US 29 interchanges at Stewart Lane, Tech Road, Greencastle Road, and Blackburn Road.



US 301 Corridor (Waldorf Area)									
TIP ID: 4881 Agency ID: CH2031 Title: US 301 Waldorf Area Project			Complete: 2040		Total Cost: \$175,600				
Facility: US 301	NHPP	100/0/0	1,000 a	1,000 a					2,000
From: MD 227									
To: MD 5 at T.B.	State	0/100/0			1,721 a				1,721
Total Funds:									3,721

Description: A study examining alternatives, including grade-separated interchanges at MD 5 and MD 228, to upgrade US 301 through Waldorf from MD 227 to north of MD 5 at T.B.

US 50 Corridor									
TIP ID: 6398 Agency ID: PG0641 Title: US 50 Feasibility Study			Complete: 2016		Total Cost: \$500				
Facility: I 595 /US 50	State	0/100/0	52 d						52
From: Maryland/District of Columbia line									
To: MD 704									Total Funds: 52

Description: A study to examine I-595/US 50 capacity and operational improvements between the Maryland/District of Columbia line and MD 704.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Secondary

Joint Base Andrews BRAC Improvements

TIP ID: 5759	Agency ID: PG7801	Title: Joint Base Andrews BRAC Improvements	Complete: 2016	Total Cost: \$7,400
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Facility: PL	Fed/St/Loc: 100/0/0	Previous Funding:	FY 2017: 3,494	FY 2018: a	FY 2019:	FY 2020:	FY 2021:	FY 2022:	Source Total: 3,494
From:									
To:									Total Funds: 3,494

Description: Overall design of improvements providing improved access to Joint Base Andrews. Parent project of PG7802 (TIP 6392) and PG7803 (TIP 6393).

TIP ID: 6392	Agency ID: PG7802	Title: MD 337 at MD 218 BRAC Intersection Improvements	Complete: 2016	Total Cost: \$5,850
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Facility: MD 337 at MD 218	Fed/St/Loc: NHPP	Previous Funding:	FY 2017: 27	FY 2018: b	FY 2019:	FY 2020:	FY 2021:	FY 2022:	Source Total: 27
From:									
To:	State	0/100/0	26	b	6	b			356
			324	c					
	STP	100/0/0	64	b	21	b			1,749
			1,664	c					
									Total Funds: 2,132

Description: Construction of MD 337 intersection improvements at MD 218 to improve access to Joint Base Andrews.



MD 124 Corridor

TIP ID: 3057	Agency ID: MO6322	Title: MD 124 Phases 2-3 Highway Reconstruction	Complete: 2020	Total Cost: \$113,500
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Facility: MD 124	Fed/St/Loc: Local	Previous Funding:	FY 2017:	FY 2018: 2,500	FY 2019: b	FY 2020: 2,500	FY 2021: b	FY 2022:	Source Total: 5,000
From: Midcounty Highway									
To: Warfield Road	State	0/100/0	851	a	869	a	121	a	1,841
									Total Funds: 6,841

Description: Reconstruction of MD 124 from Midcounty Highway to south of Airpark Road and north of Fieldcrest Road to Warfield Road.

MD 180/MD 351 Corridor

TIP ID: 6489	Agency ID: FR6781	Title: MD 180, Jefferson Pike - Urban Reconstruction	Complete: 2019	Total Cost: \$28,295
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Facility: MD 180 Jefferson Pike	Fed/St/Loc: State	Previous Funding:	FY 2017: 1,120	FY 2018: a	FY 2019: 825	FY 2020: a	FY 2021: 3,456	FY 2022: c	Source Total: 27,945
From: N. of I-70									
To: Structure No. 10140									Total Funds: 27,945

Description: Urban reconstruction for MD 180, Jefferson Pike from 600 feet north of I-70 to Structure No. 10140



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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
MD 28/MD 198 Corridor											
TIP ID: 3476		Agency ID: MO8861		Title: MD 28/MD 198 Corridor Study				Complete: 2025		Total Cost: \$356,600	
Facility: MD 28/198		State		0/100/0		1,125 a		710 a		1,835	
From: MD 97											
To: I 95										Total Funds: 1,835	
Description: A study examining capacity improvements in the MD 28/MD 198 corridor between MD 97 and I-95.											

MD 355 at Randolph Road/Montrose Parkway Interchange											
TIP ID: 3542		Agency ID: MO3441		Title: MD 355 Phase 2 Highway Reconstruction				Complete: 2020		Total Cost: \$87,600	
Facility: Montrose Parkway		Local		0/0/100		5,509 a				5,509	
From: Randolph Road											
To: East of Parklawn Drive										Total Funds: 5,509	
Description: Construction of Montrose Parkway, including a CSX Railroad grade-separated crossing and interchange at Parklawn Drive.											

MD 85 Corridor											
TIP ID: 6483		Agency ID: FRNEW3		Title: MD 85 Buckeystown Pike				Complete: 2021		Total Cost: \$106,951	
Facility: MD 85 Buckeystown Pike		HPP		100/0/0		351 a				351	
From: Crestwood Boulevard /Shockley Drive											
To: Spectrum Drive		State		0/100/0		99 a		2,900 b		1,684 b	
						3,334 b		11,877 c		21,127 c	
								1,332 b		31,573 c	
										23,483 c	
										Total Funds: 97,760	
Description: Widen to a multilane divided highway from Crestwood Boulevard /Shockley Drive to Spectrum Drive, including MD 85 interchange reconstruction at I-270 and I-270 dual bridges replacement.											

MD 97 at Brookeville											
TIP ID: 3106		Agency ID: MO7461		Title: MD 97 at Brookeville Highway Construction				Complete: 2020		Total Cost: \$42,771	
Facility: MD 97		Local		0/0/100		250 a		1,711 b		6,374 c	
From: Gold Mine Road						1,500 b				1,626 b	
To: North of Brookeville											
		State		0/100/0		8,907 c		15,396 c		1,374 b	
										Total Funds: 37,138	
Description: Construction of new two-lane MD 97 from south of Brookeville, near Gold Mine Road, to north of Brookeville.											

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
MD 97 at Randolph Road Interchange									
TIP ID: 3104 Agency ID: MO8541		Title: MD 97 at Randolph Road Interchange Construction				Complete: 2017		Total Cost: \$78,017	
Facility: MD 97 at Randolph Road	NHPP	100/0/0	2,697 b						19,565
From:			16,868 c						
To:	State	0/100/0	806 b	700 b					5,584
			4,078 c						
Total Funds:									25,149

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

MD 97 Montgomery Hills Study									
TIP ID: 5420 Agency ID: MO2241		Title: MD 97 Montgomery Hills Study				Complete: 2030		Total Cost: \$63,000	
Facility: MD 97	Local	0/0/100	387 a						387
From: MD 390									
To: MD 192									
Total Funds:									387

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

Naval Support Activity Bethesda BRAC Improvements									
TIP ID: 6384 Agency ID: MO5931		Title: Naval Support Activity Bethesda BRAC Improvements				Complete: 2020		Total Cost: \$23,000	
Facility:	OEA	100/0/0	1,732 c	1,023 c					2,755
From:	State	0/100/0			1,204 c				1,204
To:	STP	100/0/0			4,816 a				4,816
Total Funds:									8,775

Description: Overall design and construction of improvements providing improved access to Naval Support Activity Bethesda. Parent project of MO5932 (TIP 5998), MO5933 (TIP 6072), MO5934 (TIP 6122), MO5935 (TIP 5988), MO5936 (TIP 6077), MO5937 (TIP 5992), and MO5938 (TIP 6071).

MD 355 at Cedar Lane and Jones Bridge Road Phases 1-2 BRAC Inters									
TIP ID: 5998 Agency ID: MO5932		Title: MD 355 at Cedar Lane and Jones Bridge Road Phases 1-2 BRAC Inters				Complete: 2016		Total Cost: \$15,900	
Facility: MD 355 at Cedar Lane and Jones Bridge Ro	OEA	100/0/0	126 b	1,000 b	84 b				2,466
From:			1,256 c						
To:	State	0/100/0	405 c						405
Total Funds:									2,871

Description: Construction of MD 355 Phase 1 and 2 intersection improvements at Cedar Lane and Jones Bridge Road to improve access to Naval Support Activity Bethesda.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6072 Agency ID: MO5933 Title: MD 187 at West Cedar Lane/Oakmont Avenue BRAC Intersection Impro							Complete: 2016	Total Cost:		\$4,421
Facility: MD 187 at West Cedar Lane/Oakmont Avenue	OEA	100/0/0		7 b	6 b					13
From:										
To:	State	0/100/0		80 b	66 b					146
Total Funds:										159

Description: Construction of MD 187 intersection improvements at West Cedar Lane/Oakmont Avenue to improve access to Naval Support Activity Bethesda.

TIP ID: 6122 Agency ID: MO5934 Title: MD 355 BRAC Highway Improvements							Complete: 2020	Total Cost:		\$4,299
Facility: MD 355	OEA	100/0/0		444 c	1,409 c	1,571 c	875 c			4,299
From: Woodmont Avenue/Glenbrook Parkway										
To: South Wood Road/South Drive										
Total Funds:										4,299

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

TIP ID: 6077 Agency ID: MO5936 Title: MD 320 at Sligo Creek Parkway BRAC Improvements Mitigation							Complete: 2017	Total Cost:		\$2,103
Facility: MD 320 at Sligo Creek Parkway	OEA	100/0/0		1,419 c						1,419
From:										
To:	State	0/100/0		19 c						19
Total Funds:										1,438

Description: Construction of bicycle/pedestrian improvements, including a new Anacostia Tributary Trail System Sligo Creek bicycle/pedestrian bridge. This project serves as mitigation for BRAC improvements right-of-way effects to Maryland-National Capital Park and Planning Commission properties.

TIP ID: 6071 Agency ID: MO5938 Title: MD 185 at Jones Bridge Road and Kensington Parkway Phase 3 BRAC I							Complete: 2020	Total Cost:		\$18,400
Facility: MD 185 at Jones Bridge Road and Kensington	OEA	100/0/0		2,423 b	1,367 b	938 c	2,734 c	1,768 c		9,230
From:										
To:										
Total Funds:										9,230

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

Other										
Bladensburg War of 1812 Archaeological/Historical Study										
TIP ID: 6399 Agency ID: PG7621 Title: Bladensburg War of 1812 Archaeological/Historical Study							Complete: 2017	Total Cost:		\$66
Facility: US at Bladensburg	NPS	100/0/0		62 a						62
From:										
To:										
Total Funds:										62

Description: An archaeological study of sites related to the Battle of Bladensburg during the War of 1812.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
System Preservation Projects										
TIP ID: 6532 Agency ID:		Title: MD 355 Frederick Road Bridge Replacement over Little Bennett Creek				Complete: 2018		Total Cost:		\$5,215
Facility: MD 355 at Little Bennett Creek	State	0/100/0		450 a	225 a					4,675
From:				1,420 c	2,580 c					
To:										
Total Funds:										4,675

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

TIP ID: 3081 Agency ID: AWBR		Title: Bridge Replacement and Rehabilitation				Complete:		Total Cost:		
Facility:	NHPP	100/0/0		3,182 a	3,324 a	3,169 a	3,123 a	3,331 a	3,324 a	108,072
From:				530 b	554 b	528 b	521 b	555 b	554 b	
To:				13,964 c	14,590 c	13,907 c	13,708 c	14,618 c	14,590 c	
	State	0/100/0		846 a	884 a	842 a	831 a	886 a	884 a	28,245
				141 b	148 b	140 b	139 b	148 b	148 b	
				3,711 c	3,882 c	3,697 c	3,647 c	3,889 c	3,382 c	
	STP	100/0/0		201 a	214 a	201 a	201 a	214 a	214 a	6,915
				33 b	36 b	33 b	33 b	36 b	36 b	
				882 c	939 c	882 c	882 c	939 c	939 c	
Total Funds:										143,232

Description: Bridge replacement and rehabilitation projects include structural replacements, bridge deck rehabilitation, superstructure replacements, bridge parapet reconstruction, and painting.

TIP ID: 5838 Agency ID: AWCE		Title: Congressional Earmarks				Complete:		Total Cost:		
Facility:	Earmark	100/0/0		4,136 c						4,136
From:										
To:	HPP	100/0/0		1,600 c						1,600
	Local	0/0/100		400 c						400
Total Funds:										6,136

Description: Congressional earmarks are non-SHA projects that receive federal funding through Congressional action, either a High Priority (HPP) earmark from reauthorization bill MAP-21 or an earmark in the annual appropriations omnibus bill. Since these earmarks are granted via a transportation spending bill, MDOT/SHA administer these funds. Individual projects are shown in the SHA portion of the CTP under the respective jurisdictions. The match amounts, which vary percentage-wise project by project, are provided by project sponsors.

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

			Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3085 Agency ID: AWCM Title: Congestion Management								Complete:		Total Cost:		
Facility:		CMAQ	100/0/0			433 a	433 a	516 a	400 a	383 a	366 a	6,841
From:						12 b	12 b	14 b	11 b	10 b	10 b	
To:						725 c	725 c	865 c	670 c	642 c	614 c	
<hr/>												
		NHPP	100/0/0			160 a	173 a	200 a	147 a	147 a	133 a	2,594
						4 b	5 b	5 b	4 b	4 b	4 b	
						268 c	290 c	335 c	246 c	246 c	223 c	
<hr/>												
		State	0/100/0			130 a	140 a	163 a	120 a	113 a	107 a	2,089
						3 b	4 b	4 b	3 b	3 b	3 b	
						218 c	234 c	274 c	201 c	190 c	179 c	
<hr/>												
		STP	100/0/0			360 a	386 a	453 a	333 a	306 a	293 a	5,759
						10 b	10 b	12 b	9 b	8 b	8 b	
						603 c	647 c	759 c	558 c	513 c	491 c	
											Total Funds:	17,283

Description: Congestion management projects include traffic management, new and reconstructed signals, signage, lighting, signal systemization, design and construction of park-and-ride facilities, CHART, design and construction of ITS projects, and design and construction of intersection capacity improvements.

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

Source		Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 3038 Agency ID: AWEN		Title: Environmental Projects			Complete:			Total Cost:		
Facility:	HSIP	100/0/0		77 a	62 a	62 a	62 a	64 a	46 a	976
From:				2 b	2 b	2 b	2 b	99 c	1 b	
To:				124 c	99 c	99 c	99 c		74 c	
	NHPP	100/0/0		1,190 a	725 a	274 a	274 a	643 a	629 a	9,828
				31 b	19 b	7 b	7 b	17 b	17 b	
				1,911 c	1,164 c	439 c	439 c	1,032 c	1,010 c	
	NRT	100/0/0		155 a						408
				4 b						
				249 c						
	State	0/100/0		644 a	451 a	212 a	212 a	483 a	473 a	6,532
				17 b	12 b	6 b	6 b	12 b	12 b	
				1,032 c	745 c	341 c	341 c	772 c	761 c	
	STP	100/0/0		1,190 a	1,053 a	547 a	547 a	1,259 a	1,245 a	15,370
				31 b	28 b	14 b	14 b	33 b	33 b	
				1,911 c	1,691 c	878 c	878 c	2,020 c	1,998 c	
Total Funds:										33,114

Description: Environmental projects include environmental preservation, wetland replacement, reforestation, landscaping, environmental compliance, noise abatement and sound barriers, drainage improvements, total maximum daily load (TMDL) compliance, and bicycle facility retrofit improvements.

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

			Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total		
TIP ID: 3082			Agency ID: AWRR			Title: Resurfacing and Rehabilitation			Complete:		Total Cost:			
Facility:	HSIP			100/0/0		26 a	23 a	26 a	26 a	23 a	23 a	2,067		
From:						4 b	3 b	4 b	4 b	3 b	3 b			
To:						335 c	298 c	335 c	335 c	298 c	298 c			
			NHPP			100/0/0		965 a	864 a	968 a	953 a	854 a	852 a	65,268
						138 b	123 b	138 b	136 b	122 b	122 b			
						13 c	11,360 c	12,718 c	12,519 c	11,228 c	11,195 c			
			State			0/100/0		558 a	500 a	560 a	551 a	494 a	493 a	38,525
						80 b	71 b	80 b	79 b	71 b				
						7,332 c	6,566 c	7,357 c	7,241 c	6,492 c				
			STP			100/0/0		1,255 a	1,124 a	1,260 a	1,240 a	1,111 a	1,109 a	101,413
						179 b	161 b	180 b	177 b	159 b	158 b			
						16,494 c	14,772 c	16,560 c	16,295 c	14,606 c	14,573 c			
											Total Funds: 207,273			

Description: Resurfacing and rehabilitation projects include pavement milling, pavement overlay, and concrete patching.

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

			Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 3084			Agency ID: AWSS			Title: Safety and Spot Improvements			Complete:		Total Cost:		
Facility:		CMAQ	100/0/0			122 a	81 a	68 a	54 a	81 a	68 a	1,577	
From:						8 b	5 b	5 b	4 b	5 b	5 b		
To:						275 c	184 c	153 c	122 c	184 c	153 c		
		HSIP	100/0/0			2,411 a	909 a	1,036 a	965 a	1,180 a	1,061 a	25,427	
						161 b	61 b	294 b	64 b	78 b	70 b		
						5,464 c	2,060 c	2,349 c	2,188 c	2,673 c	2,403 c		
		NHPP	100/0/0			1,220 a	821 a	713 a	680 a	983 a	983 a	18,001	
						81 b	55 b	48 b	45 b	66 b	66 b		
						2,766 c	1,860 c	1,616 c	1,542 c	2,228 c	2,228 c		
		State	0/100/0			1,280 a	915 a	831 a	798 a	1,314 a	1,014 a	20,506	
						85 b	61 b	56 b	53 b	87 b	67 b		
						2,901 c	2,075 c	1,885 c	1,809 c	2,977 c	2,298 c		
		STP	100/0/0			4,908 a	2,774 a	2,660 a	2,111 a	3,911 a	2,606 a	63,666	
						326 b	185 b	178 b	167 b	261 b	173 b		
						11,124 c	5,793 c	6,029 c	5,690 c	8,863 c	5,907 c		
Total Funds:											129,177		

Description: Safety and spot improvements include roundabouts, geometric improvements, intersection capacity improvements, slope repairs, pedestrian crossings, sidewalks, rail crossings, safety improvements, intersection realignment, drainage improvements, pavement marking, joint sealing, truck weigh facilities, rest areas, crash prevention measures, guardrail end treatments, ADA retrofits, traffic management.

TIP ID: 2710			Agency ID: AWTE			Title: Transportation Alternatives			Complete:		Total Cost:		
Facility:		State	0/100/0			68 a	67 a	69 a	69 a	127 a	400 a	13,322	
From:						90 b	89 b	92 b	91 b	170 b	533 b		
To:						968 c	960 c	991 c	983 c	1,827 c	5,728 c		
		STP/E	100/0/0			270 a	268 a	276 a	274 a	510 a	1,598 a	53,280	
						360 b	357 b	369 b	366 b	680 b	2,131 b		
						3,870 c	3,839 c	3,963 c	3,932 c	7,307 c	22,910 c		
Total Funds:											66,602		

Description: Transportation Alternatives projects include areawide: Tree planting, native plant establishment, and integrated roadside vegetation management; in Frederick County: Ballenger Creek Trail Phase 1, Ballenger Creek Trail Phase 4, Carroll Creek Park Trail Phase 2, and Saving Maryland's Civil War Battlefields; in Montgomery County: Anglers Breach, Ethan Allen Gateway streetscape, Flower Avenue streetscape, I-270 stormwater management facilities functional upgrades, MTA's share of Capital Crescent Trail construction costs associated with the Purple Line, Olde Towne Gaithersburg rolling stock restoration, and Shady Grove Metro Access Road bikepath; and in Prince George's County: Bladensburg Archaeology, Bowie Heritage Trail Phase 1, College Park Trolley Trail Phase 4, North Gate Park at Paint Branch, and Scorpion 2010 Archaeology.

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

			Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 3083 Agency ID: AWUR Title: Urban Reconstruction									Complete:	Total Cost:			
Facility:	NHPP		100/0/0			216 a	143 a	168 a	147 a	22 a	22 a	5,978	
From:						36 b	24 b	28 b	24 b	4 b	4 b		
To:						1,548 c	1,022 c	1,207 c	1,053 c	155 c	155 c		
<hr/>													
	State		0/100/0			154 a	100 a	121 a	743 a	15 a	15 a	4,250	
						26 b	17 b	20 b	104 b	3 b	3 b		
						1,107 c	719 c	867 c	18 c	109 c	109 c		
<hr/>													
	STP		100/0/0			402 a	259 a	315 a	2,188 a	39 a	39 a	11,017	
						67 b	43 b	53 b	45 c	6 b	6 b		
						2,879 c	1,858 c	2,260 c		279 c	279 c		
											Total Funds:	21,245	

Description: Urban reconstruction projects include drainage improvements, curb and gutter replacement, pavement milling and resurfacing, streetscaping, sidewalks improvements, signage, marking, and lighting.

TIP ID: 6517 Agency ID: CH2061 Title: MD 234 Gilbert Swamp Run Bridge Replacement									Complete: 2018	Total Cost: \$5,044		
Facility:	MD 234 at Gilbert Swamp Run		BR	100/0/0		347 a						347
From:												
To:	State		0/100/0			87 a	3,100 c					4,087
						900 c						
											Total Funds:	4,434

Description: Replacement of MD 234 Bridge# 08047 over Gilbert Swamp Run. The existing bridge is structurally deficient.



TIP ID: 6481 Agency ID: FR1301 Title: US 15 Catoctin Mountain Highway Bridge Replacement									Complete: 2017	Total Cost: \$6,411		
Facility:	US 15 at MD 26		State	0/100/0		4,135 c	1,023 c					5,158
From:												
To:												
											Total Funds:	5,158

Description: Replacement of US Cactoctin Mountain Highway bridge 1019701 over MD 26. The existing bridge is structurally deficient.

TIP ID: 6518 Agency ID: FR1321 Title: MD 355 Urbana Pike Bridge Replacement									Complete: 2018	Total Cost: \$8,789		
Facility:	MD 355 at Bennett Creek		State/Local	0/100/0		2,080 c	5,920 c					8,000
From:												
To:												
											Total Funds:	8,000

Description: Replacement of MD 355 Urbana Pike bridge 1008600 over Bennett Creek. The existing bridge is structurally deficient.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6488 Agency ID: FR3501 Title: US 40 AL Urban Reconstruction									Complete: 2019 Total Cost: \$17,799	
Facility: US 40 Main Street AL	NHPP	100/0/0		2,162 c	4,533 c	2,211 c				8,906
From: Ivy Hill Road										
To: Middletown Parkway	State	0/100/0		64 b	64 b	112 b				5,466
				807 c	2,939 c	1,480 c				

Total Funds: 14,372

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



TIP ID: 6439 Agency ID: FR5361 Title: MD 140 Flat Run Bridge Replacement									Complete: 2018 Total Cost: \$5,784	
Facility: MD 140 at Flat Run	State	0/100/0		80 b	79 b	42 c				845
From:				298 c	346 c					
To:	STP	100/0/0		1,569 c	1,817 c	220 c				3,606

Total Funds: 4,451

Description: Replacement of MD 140 Flat Run Bridge 10062. The existing bridge is structurally deficient.



TIP ID: 6486 Agency ID: FR5591 Title: MD 355 Urbana Pike Bridge Replacement									Complete: 2021 Total Cost: \$9,187	
Facility: MD 355 over CSXT Railroad	BR	100/0/0		536 a						536
From:										
To:	State	0/100/0		192 a	152 b	152 b	152 b	114 b	7,322	
				152 b	2,413 c	2,413 c	843 c			
				739 c						

Total Funds: 7,858

Description: Replacement of MD 355 Urbana Pike Bridge 10084 over CSXT railroad. The existing bridge is structurally deficient.



TIP ID: 6482 Agency ID: FR6471 Title: MD 75 Green Valley Road Bridge Replacement									Complete: 2017 Total Cost: \$2,848	
Facility: MD 75 at Haines Branch	State	0/100/0		114 c						114
From:										
To:									Total Funds: 114	

Description: Replacement of MD 75 Green Valley Road Bridge 10172 over Haines Branch.



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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6507 Agency ID: MO1741 Title: Complete Streets Near Metro Station S. Stonestreet Ave							Complete:	Total Cost:		
Facility:	Local	0/0/100		39 c						39
From:										
To:	TCSP	100/0/0		156 c						156
Total Funds:										195

Description: Implement a road diet on S. Stonestreet Avenue near the Rockville metro station to provide space for a sidewalk and bike lanes.

TIP ID: 6508 Agency ID: MO1751 Title: Complete Streets Near Metro Station Twinbrook Station							Complete:	Total Cost:		
Facility:	Local	0/0/100		122 c						122
From:										
To:	TCSP	100/0/0		488 c						488
Total Funds:										610

Description: Improve pedestrian crossing locations on public roadways near the Twinbrook metro station

TIP ID: 6430 Agency ID: MO1881 Title: I-495 Inner Loop Resurfacing							Complete: 2018	Total Cost: \$10,097		
Facility: I 495	State	0/100/0		7,606 c	2,142 c					9,748
From: I 270Y										
To: Seminary Road										
Total Funds:										9,748

Description: Resurfacing of I-495 inner loop between I-270 and Seminary Road.

TIP ID: 6538 Agency ID: MO2401 Title: MD 195, Carroll Avenue at Sligo Creek and Sligo Creek Parkway Bridge							Complete: 2019	Total Cost: \$12,254		
Facility: MD 195 at Sligo Creek and Sligo Creek Park	BR	100/0/0		8 a						8
From:										
To:	State	0/100/0		2 a	42 b	42 b	18 b			1,933
				42 b	768 c	15 c				
				1,004 c						
	STP	100/0/0		3,831 c	2,870 c					6,701
Total Funds:										8,642

Description: Replace Bridge 15033 over Sligo Creek and Sligo Creek Parkway.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6033 Agency ID: MO5821 Title: MD 193 I-495 Bridge Rehabilitation			Complete: 2017 Total Cost: \$11,462							
Facility: MD 193 at I-495	NHPP	100/0/0		302 c						302
From:										
To:	State	0/100/0		77 c						77
Total Funds:										379

Description: Rehabilitation of MD 193 I-495 Bridge 15136 substructure and replacement of MD 193 I-495 Bridge 13136 superstructure. The existing structure is structurally deficient and functionally obsolete

TIP ID: 6487 Agency ID: PG0461 Title: MD 381 Brandywine Road Bridge Replacement			Complete: 2018 Total Cost: \$3,176							
Facility: MD 381 at Timothy Branch	State	0/100/0		495 a	83 a					2,578
From:				500 c	1,500 c					
To:										
Total Funds:										2,578

Description: Replacement of MD 381 Brandywine Road Bridge 1630500 over Timothy Branch.



TIP ID: 6529 Agency ID: PG1061 Title: MD 212 A Urban Reconstruction			Complete: 2020 Total Cost: \$13,000							
Facility: MD	State	0/100/0		127 a	189 b	90 b	39 b	35 b		4,205
From: Pine Street				601 b	546 c	1,332 c	709 c	226 c		
To: US 1				311 c						
	STP	100/0/0		877 a	1,939 c	4,723 c	2,514 c	802 c		11,958
				1,103 c						
Total Funds:										16,163

Description: Reconstruction of MD 212A from Pine Street to US 1

TIP ID: 6522 Agency ID: PG1272 Title: I-95/I-495 at MD 214 Bridges Replacement			Complete: 2020 Total Cost: \$36,863							
Facility: I 95 I-95/I-495 at MD 214	NHPP	100/0/0		274 c	274 c	9,334 c	9,333 c	9,330 c		28,545
From:										
To:	State	0/100/0		694 a	314 a	2,334 c	2,333 c	2,333 c		8,150
				71 c	71 c					
Total Funds:										36,695

Description: Replacement of I-95/I-495 bridges 1615305 and 1615306 over MD 214. The existing bridges are structurally deficient and functionally obsolete.

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

			Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6521 Agency ID: PG1272 Title: I-95/I-495 at MD 214 Bridges Replacement						Complete: 2020 Total Cost: \$36,863						
Facility: I 95 I-95/I-495 at MD 214			NHPP	100/0/0		274 c	274 c	9,334 c				9,882
From:												
To:			State	0/100/0		694 a 71 c	314 a 71 c	2,334 c	2,333 c			5,817
											Total Funds: 15,699	

Description: Replacement of I-95/I-495 bridges 1615305 and 1615306 over MD 214. The existing bridges are structurally deficient and functionally obsolete.

TIP ID: 6180 Agency ID: PG1291 Title: I-595/US 50 Resurfacing (Eastbound)						Complete: 2017 Total Cost: \$10,421						
Facility: I 595			NHPP	100/0/0		840 c						840
From: Lottsford Vista Road												
To: Anne Arundel County Line			State	0/100/0		147 c						147
											Total Funds: 987	

Description: Resurfacing of eastbound I-595/US 50 from Lottsford Vista Road to the Anne Arundel County line.

TIP ID: 6182 Agency ID: PG5431 Title: US 1 Drainage Improvements						Complete: 2017 Total Cost: \$12,200						
Facility: US 1			State	0/100/0		2,432 c						2,432
From: MD 212												
To: South of Ammendale Road												
											Total Funds: 2,432	

Description: Drainage improvements along US 1 from MD 212 to south of Ammendale Road. This project includes the replacement of a culvert under US 1 at Ammendale Road.

TIP ID: 6150 Agency ID: PG5461 Title: MD 500 Community Safety and Enhancement Improvements						Complete: 2016 Total Cost: \$10,489						
Facility: MD 500			State	0/100/0		4,198 c						4,198
From: MD 208												
To: MD 410												
											Total Funds: 4,198	

Description: Construction of MD 500 landscaped median with sidewalk and crosswalk improvements from MD 208 to MD 410.

TIP ID: 6032 Agency ID: PG6641 Title: MD 4 MD 223 Bridges Replacement						Complete: 2015 Total Cost: \$22,400						
Facility: MD 4 at MD 223			NHPP	100/0/0		3,623 c						3,623
From:												
To:			State	0/100/0		31 c						31
											Total Funds: 3,654	

Description: Replacement of MD 4 MD 223 bridges 1618101 and 1618102. The existing bridges are structurally deficient and functionally obsolete.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 6437 Agency ID: PG6981 Title: I-95/I-495 Suitland Road Bridges Replacement			Complete: 2020					Total Cost: \$35,621	

Facility: I 95 /I 495 at Suitland Road	State	0/100/0	10,635 c	12,899 c	10,240 c	102 c			
From:									
To:	Total Funds: 33,876								
Description: Replacement of I-95/I-495 Suitland Road Bridges 1616205 and 1616206. The existing bridges are structurally deficient and functionally obsolete. 🚲									

TIP ID: 6438 Agency ID: PG6982 Title: I-95/I-495 Suitland Parkway Bridges Replacement			Complete: 2019					Total Cost: \$31,176	
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Facility: I 95 /I 495 at Suitland Parkway	State	0/100/0	1,086 a	15,300 c	14,700 c				
From:									
To:	Total Funds: 31,086								
Description: Replacement of I-95/I-495 Suitland Parkway Bridges 1616005 and 1616006. The existing bridges are structurally deficient and functionally obsolete. 🚲									

TIP ID: 6183 Agency ID: PG7581 Title: MD 4 Community Safety and Enhancement Improvements			Complete: 2017					Total Cost: \$26,464	
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Facility: MD 4	State	0/100/0	15,828 c						
From: Forestville Road									
To: MD 458	Total Funds: 15,828								
Description: Construction of raised curb along the outside edge of MD 4, sidewalk along southbound MD 4, a 10-foot shared-use path along northbound MD 4, on-road bicycle accommodations, and other traffic calming measures between Forestville Road and MD 458.									

TIP ID: 6433 Agency ID: PG8231 Title: I-95 Resurfacing			Complete: 2017					Total Cost: \$13,004	
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Facility: I 95	NHPP	100/0/0	7,720 c						
From: I 495									
To: North of Old Gunpowder Road	State	0/100/0	683 c						
									Total Funds: 8,403

Description: Resurfacing of I-95 from I-495 to north of Old Gunpowder Road.

TIP ID: 6514 Agency ID: PG9792 Title: I-595/US 50 Resurfacing (Westbound)			Complete: 2019					Total Cost: \$11,554	
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Facility: I 595	State	0/100/0	7,515 c	2,737 c					
From: Lottsford Vista Road									
To: Anne Arundel County Line	STP	100/0/0	65 a	65 a	16 a				
									Total Funds: 10,398

Description: Resurfacing of westbound I-595/US 50 from Lottsford Vista Road to the Anne Arundel County line.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
TIP ID: 6181 Agency ID: PG9795 Title: MD 5 Resurfacing								Complete: 2016	Total Cost: \$8,169		
Facility: MD 5	NHPP	100/0/0		1 c						1	
From: I 95											
To: MD 223	State	0/100/0		2 c						2	
Total Funds:										3	

Description: Resurfacing of MD 5 from south of I-95/I-495 to MD 223.

TERMs

Transportation Emissions Reduction Measures

TIP ID: 3566 Agency ID: AWCC Title: Commuter Connections Program								Complete:	Total Cost:		
Facility:	State	0/100/0		2,788 e	3,046 e	2,962 e	3,065 e	3,333 e		15,194	
From:											
To:										Total Funds: 15,194	

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

TIP ID: 5773 Agency ID: AWGR Title: Commuter Connections Program - Guaranteed Ride Home Baltimore/S								Complete:	Total Cost:		
Facility:	State	0/100/0		150 e	150 e	150 e	150 e	170 e	150 e	920	
From:											
To:										Total Funds: 920	

Description: This project expands the Commuter Connections Program's Guaranteed Ride Home program to the Baltimore Metropolitan Area and to Saint Mary's County.

Transit

MD 586 Bus Rapid Transit Study

TIP ID: 6000 Agency ID: MO2441 Title: MD 586 Bus Rapid Transit Study								Complete: 2040	Total Cost: \$87,600		
Facility: MD 586	Local	0/0/100		2,389 a						2,389	
From: MD 97											
To: MD 355										Total Funds: 2,389	

Description: A study to evaluate roadway improvements necessary to implement Montgomery County's bus rapid transit system on MD 586 between Wheaton Metro Station and Rockville Metro Station.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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MDOT/Maryland Transit Administration

Maintenance

Marc Improvements

TIP ID: 6400	Agency ID:	Title: MARC Improvements	Complete:	Total Cost:
Facility:		Sect. 5307 80/0/20		5,725 e 9,168 e 14,893
From:				
To:		Sect. 5337-SGR 80/0/20		14,739 e 940 e 15,679
Total Funds:				30,572

Description: Investments in passenger rail corridor infrastructure improvements are necessary to maintain/improve safety and quality of MARC

Transit

Large Urban Operating

TIP ID: 6147	Agency ID:	Title: Large Urban Preventive Maintenance	Complete:	Total Cost:
Facility:		Sect. 5307 80/20/0		5,555 e 5,555 e 11,110
From:				
To:				Total Funds: 11,110

Description: Preventive Maintenance Funds for Montgomery County.

Large Urban Systems- Capital

TIP ID: 2713	Agency ID: 0892/0893	Title: Large Urban Systems- Capital	Complete:	Total Cost:
Facility:		Sect. 5307 80/20/0		2,500 e 2,500 e 5,000
From:				
To:				Total Funds: 5,000

Description: Capital assistance for large urban transit service in Prince George's and Montgomery Counties.


MARC Rolling Stock Overhauls and replacements

TIP ID: 6401	Agency ID:	Title: MARC Rolling Stock Overhauls and Replacements	Complete:	Total Cost:
Facility:		Sect. 5307 80/20/0		1,493 e 1,493
From:				
To:		Sect. 5337-SGR 80/20/0		6,591 e 21,625 e 28,216
Total Funds:				29,709

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Purple Line									
TIP ID: 2795 Agency ID:		Title: Purple Line				Complete: 2022		Total Cost: \$2,410,000	
Facility: Purple Line	P3	0/0/0	17,330 c	17,330 c	17,330 c	17,330 c			69,320
From: Bethesda	Sect. 5307	100/0/0		10,000 c	10,000 c	5,000 c			25,000
To: New Carrollton	Sect. 5309-NS	100/0/0	116,000 c	116,000 c	116,000 c	116,000 c			464,000
	State	0/100/0	55,903 c	58,403 c	58,403 c	57,153 c			229,862
Total Funds:									788,182

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

Ridesharing									
TIP ID: 3760 Agency ID:		Title: Ridesharing - Statewide Program				Complete:		Total Cost:	
Facility:	CMAQ	100/0/0	875 e	875 e					1,750
From:									
To:									Total Funds: 1,750

Description: To promote and encourage the establishment of carpools and vanpools. The ridesharing project covers the activities of the ridesharing unit of the Statewide Transportation Program with coordinators in Frederick, Prince George's and Montgomery Counties.

Rural Transit - Capital Assistance									
TIP ID: 2602 Agency ID: Part of 0218		Title: Rural Transit - Capital Assistance				Complete:		Total Cost:	
Facility:	Sect. 5311	80/10/10	70 e	70 e					140
From:									
To:									Total Funds: 140

Description: Capital assistance for rural transit service in Frederick County

Rural Transit - Operating Assistance									
TIP ID: 2853 Agency ID: Part of 0218		Title: Rural Transit - Operating Assistance				Complete:		Total Cost:	
Facility:	Sect. 5311	50/0/50	1,374 e	1,374 e					2,748
From:									
To:									Total Funds: 2,748

Description: Operating assistance for rural service in Charles, Frederick, Montgomery, and Prince George's Counties

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Seniors and Individuals with Disabilities									
TIP ID: 6440 Agency ID:		Title: 5310 Operating and capital				Complete:		Total Cost:	
Facility:	Sect. 5310	50/0/50	649 e						649
From:									
To:	Sect. 5310	80/0/20	649 e						649
Total Funds:									649

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

Small Urban Systems - Capital									
TIP ID: 3012 Agency ID: Part of 0217		Title: Small Urban Systems - Capital				Complete:		Total Cost:	
Facility:	Sect. 5307	80/10/10	3,288 e	3,288 e					6,576
From:									
To:	Sect. 5339	80/10/10	1,800 e	1,800 e					3,600
Total Funds:									10,176

Description: Provision of vehicles, equipment and other projects in support of public transportation in Charles and Frederick Counties. Federal assistance from 49 U.S.C. Section 5307. Project selection based on applications from local providers.

Small Urban Systems - Operating Assistance									
TIP ID: 2594 Agency ID: Part of 0217		Title: Small Urban Transit Systems - Operating Assistance				Complete:		Total Cost:	
Facility:	Sect. 5307	50/0/50	8,429 e	8,429 e					16,858
From:									
To:									
Total Funds:									16,858

Description: Operating assistance to small urban transit systems in Charles and Frederick Counties

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Frederick County

Secondary

Various Roads - County Capital Improvement Program

TIP ID: 5494	Agency ID:	Title: Study, Design, ROW, & Construction	Complete: 2020	Total Cost: \$26,688
Facility: Various Roads	Local	0/0/100	1,608 c	5,716 c
From: Various Roads			2,508 c	12,795 c
To:				
Total Funds:				22,627
Description: Upgrade and improvements to Boyers Mill Road; Gas House Pike; Ijamsville Road; Old National Pike; Opossumtown Pike; Reels Mill Road; Reichs Ford Road; Yeagertown Rd; English Muffin Way & Shockley Drive/Spectrum Drive. Portions of Boyers Mill Road, and all of Ijamsville Road, & Old National Pike, will include bicycle accomodations.				

Bike/Ped

Bikeways & Trails Program - County Capital Improvement Program

TIP ID: 5495	Agency ID: F3	Title: Planning, Design & Construction	Complete: 2018	Total Cost: \$2,854
Facility: Varous Trails	Local	0/0/100	189 e	189
From:				
To:	State/Local	0/40/60	1,238 e	1,238
Total Funds:				1,427
Description: Various Trails including the Ballenger Creek Corridor				

Bridge

Various Bridges - County Capital Improvement Program

TIP ID: 3173	Agency ID: F3	Title: Study, Design, ROW, Construction, Inspection & Training	Complete: 2020	Total Cost: \$9,090
Facility: Various Bridges	BR	35/0/65	450 c	450
From:				
To:	BR 2	94/0/6	2,447 c	2,447
	Local	0/0/100	348 c	1,854 c
Total Funds:				5,099
Description: Rehabilitate, construct (replace) & inspect bridges or culverts at the following locations: Blacks Mill Rd; Lewistown Rd; Ball Road; Gas House Pike; Pete Wiles Rd.; Bretheren Church Rd; Hessong Bridge Rd; Reels Mill Rd; Dixon Rd; Hoovers Mill Rd; Hornets Nest Rd; deck replacements on Old Frederick Rd & Thurston Rds.; and covered bridge preservation projects Work may include bridge inspection training.				

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Montgomery County

Secondary

Burtonsville Access Road

TIP ID: 3498	Agency ID: P500500	Title: Burtonsville Access Road	Complete:	Total Cost:	\$6,890
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Facility: Burtonsville Access Road	Local	0/0/100		335 a	145 a	70 a			2,412
From: MD Spencerville Road					1,077 b	785 b			
To: School Access Road in Burtonsville									
Total Funds:									2,412

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

Clarksburg Transportation Connections

TIP ID: 6020	Agency ID: P501315	Title: Clarksburg Transportation Connections	Complete:	Total Cost:	\$10,000
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Facility: Clarksburg Transportation Connections	Local	0/0/100		2,000 e	2,000 e	2,000 e	2,000 e		8,000
From: Snowden Farm Parkway/Little Seneca Park									
To: Ridge Road/									
Total Funds:									8,000

Description: This project provides for the County contribution to the developers design, partial land acquisition, and construction of the:

- 1) The 2400' long section of Snowden Farm Parkway from 300' north of Morning Star Drive to Ridge Road (MD 27)
- 2) The 3,400' section of Little Seneca Parkway from Snowden Farm Parkway to Frederick Road (MD 355)
- 3) The Intersection of Brink Road @ MD 355

Both parkways will include four-lane divided roadways, an 8' wide bikeway along the north/west sides, and a 5' sidewalk along the south/east sides within the 120' right-of-way. The Brink Road intersection will include improvements to the intersection as required by the Planning Board's opinion in the approval of the Clarksburg Village and Greenway Village Subdivisions. The project will also include street lighting, stormwater management, landscaping and reforestation. Appropriate auxiliary lanes and traffic signals will also be provided. A pedestrian impact analysis will be performed during design or is in progress. These roads will provide congestion relief to the Clarksburg area by providing direct tie-ins to MD 355 and MD 27, thus providing better access to I-270. These roads will provide congestion relief to the Clarksburg Area by providing direct tie-ins to MD 355 and MD 27 and thus better access to I-270.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Goshen Road South											
TIP ID: 3049		Agency ID: P501107		Title: Goshen Road South				Complete:		Total Cost:	\$128,630
Facility: Goshen Road South		Local		0/0/100		127 a	126 a	2,579 a	2,290 a	57,900	
From: South of Girard Street				5,016 b	619 b	6,429 b	28,158 c				
To: 1000 feet north of Warfield Road						8,520 e	4,036 e				
Total Funds:										57,900	

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

Montrose Parkway East											
TIP ID: 3703		Agency ID: P500717		Title: Montrose Parkway East				Complete:		Total Cost:	\$119,890
Facility: Montrose Parkway East		Local		0/0/100		880 b	134 b	2,436 a	4,000 a	42,441	
From: Eastern Limit of MD 355/Montrose Interchan						866 e	15,695 c	12,256 c			
To: Veirs Mill Road/Parkland Road Intersection							6,174 e				
Total Funds:										42,441	

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Snouffer School Road North									
TIP ID: 3062 Agency ID: P501119 Title: Snouffer School Road North			Complete:				Total Cost:		\$13,482
Facility: Snouffer School Road	Local	0/0/100	300 a						3,300
From: MD Woodfield Road			3,000 c						
To: Centerway Road									
Total Funds:									3,300

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

Snouffer School Road: Sweet Autumn Dr. to Centerway Road									
TIP ID: 6064 Agency ID: P501109 Title: Snouffer School Road: Sweet Autumn Dr. to Centerway Rd			Complete:				Total Cost:		\$23,710
Facility: Snouffer School Road	Local	0/0/100	944 a	393 a	142 a				16,141
From: Sweet Autumn Drive			6,620 c	2,812 c	3,515 c				
To: Centerway Road					1,715 e				
Total Funds:									16,141

Description: This project provides for the design, land acquisition, and construction of 5,850 linear feet of roadway widening along Snouffer School Road between Sweet Autumn Drive and Centerway Road. The roadway typical section consists of two through lanes in each direction, a continuous center turn lane and 5.5 foot bike lanes in each direction with an 8-foot shared use path on the north side and a 5-foot sidewalk on the south side within a 90' right-of-way. The project will require approximately 1.44 acres of land acquisition and will include street lights, storm drainage, stormwater management, and landscaping. The Maryland State Highway Administration (MSHA) MD 124 Phase II project will widen the approximate 900 linear foot segment on Snouffer School Road between Sweet Autumn Drive and Woodfield Road.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Bike/Ped										
Bethesda CBD Streetscape										
TIP ID: 5943		Agency ID: P500102		Title: Bethesda CBD Streetscape			Complete:		Total Cost:	\$8,214
Facility: Bethesda CBD Streetscape		Local		0/0/100		400 a	497 a	490 a	262 a	7,301
From: Bethesda CBD						1,286 c	1,982 c	1,188 c		
To: Bethesda CBD								1,196 e		
Total Funds:										7,301

Description: This project provides for the design and construction of pedestrian improvements to complete unfinished streetscapes along approximately 5,425 feet of streets in the Bethesda CBD as identified in the Bethesda CBD Sector Plan. This includes:

Element 1
1,125 feet along Woodmont Avenue between Old Georgetown Road and Cheltenham Drive.

Element 2
3,550 feet along Wisconsin Avenue between Cheltenham Drive and the northern end of the CBD.

Element 3
750 feet along East-West Highway between Waverly Street and Pearl Street.

This project is intended to fill in the gaps between private development projects that have been constructed or are approved in the CBD. Design elements include the replacement and widening, where possible, of sidewalks, new vehicular and pedestrian lighting, street trees, street furniture, roadway signs. The county will coordinate with the utility company for installation of aesthetic covering over existing utility poles within the project area. This project addresses streetscape improvements and does not assume the undergrounding of utilities.

Bicycle Pedestrian Priority Area Improvements										
TIP ID: 6365		Agency ID: P501532		Title: Bicycle and Pedestrian Priority Area Improvements			Complete:		Total Cost:	\$5,375
Facility:		Local		0/0/100		150 a	150 a	150 a	1,000 e	4,000
From:						850 c	850 c	850 c		
To:										
Total Funds:										4,000

Description: The project provides for the design and construction of bicycle and pedestrian capital improvements in the 28 Bicycle-Pedestrian Priority Areas (BPPAs) identified in County master plans. Examples of such improvements include, but are not limited to: sidewalk, curb, and curb ramp reconstruction to meet ADA best practices, bulb-outs, cycle tracks, streetlighting, and relocation of utility poles. A study in FY15 will identify sub-projects in the following BPPAs: Glenmont, Grosvenor, Silver Spring Central Business District, Veirs Mill/Randolph Road, and Wheaton Central Business District. Design and construction of sub-projects will begin in FY16.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Bikeway Program - Minor Projects									
TIP ID: 3066 Agency ID: P507596 Title: Annual Bikeway Program			Complete:				Total Cost:		\$4,897
Facility: Annual Bikeway Program	Local	0/0/100	169 a	11 a	11 a	11 a			2,120
From:			11 b	169 b	169 b	169 b			
To:			350 c	350 c	350 c	350 c			
Total Funds:									2,120

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

Capital Crescent Trail									
TIP ID: 6015 Agency ID: P501316 Title: Capital Crescent Trail			Complete:				Total Cost:		\$95,856
Facility: Capital Crescent Trail	Local	0/0/100	12,795 c	3,000 a	700 b	700 b			65,916
From: Elm Street Park in Bethesda				15,111 c	16,805 c	16,805 c			
To: Silver Spring									
Total Funds:									65,916

Description: This project provides for the funding of the Capital Crescent trail, including the main trail from Elm Street Park in Bethesda to Silver Spring, as a largely 12-foot wide hard-surface hiker-biker path, connector paths at several locations, a new bridge over Connecticut Avenue, a new underpass beneath Jones Mill Road, supplemental landscaping and amenities, and lighting at trail junctions, underpasses and other critical locations. This trail will connect to the existing Capital Crescent Trail from Bethesda to Georgetown, the Metropolitan Branch Trail from Silver Spring to Union Station, and the Rock Creek Bike Trail from northern Montgomery County to Georgetown. This trail will serve pedestrians, bicyclists, joggers, and skaters, and will be compliant with the Americans with Disabilities Act of 1990 (ADA), the Bethesda CBD Sector Plan, and the Purple Line Functional Master Plan. Schedule: 1) The interim trail along the Georgetown Branch right-of-way between Bethesda and Lyttonsville will be upgraded to a permanent rail between FY 16 and FY 18, concurrent with the Purple Line construction schedule in that segment; 2) the new extension of the trail on the northeast side of the Metropolitan Branch Trail, between Lyttonsville and the Silver Spring Transit Center will be built in FY 19 and FY 20; 3) the Metropolitan Branch segment will be opened concurrently with the planned opening of the Purple Line in 2020. Final funding flows and costs subject to final design cost and completion of MOU between MTA and County.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Falls Road East Side Hiker/Biker Path									
TIP ID: 3429	Agency ID: P500905	Title: Falls Road East Side Hiker/Biker Path	Complete:				Total Cost:		\$24,830
Facility: Falls Road Bikeway	Local	0/0/100		119 a	489 a	1,165 e			3,395
From: River Road					1,622 b				
To: Dunster Road									
Total Funds:									3,395

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

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

Frederick Road Bike Path: Stringtown to Milestone Manor									
TIP ID: 6063	Agency ID: P501118	Title: Frederick Road Bike Path: Stringtown to Milestone Manor	Complete:				Total Cost:		\$7,193
Facility: Frederick Road Bike Path	Local	0/0/100		178 a					2,670
From: Stringtown Road				1,895 c					
To: Milestone Manor Lane				597 e					
Total Funds:									2,670

Description: This project provides for the design, land acquisition, and construction of a new 10-foot wide hiker-biker path along the west side of Frederick Road (MD 355) between Stringtown Road and the existing hiker-biker path near Milestone Manor Lane, a distance of approximately 2.5 miles. The entire project will replace about 0.9 miles of existing sidewalk segments in order to provide a continuous route serving two schools, two parks, and a church. The project includes streetlights and street trees.

MacArthur Boulevard Bikeway Improvements- Segment 2									
TIP ID: 5729	Agency ID: P500718	Title: MacArthur Boulevard Bikeway Improvements	Complete:				Total Cost:		\$17,300
Facility: MacArthur Boulevard	Local	0/0/100		506 a	754 a				1,460
From: I Capital Beltway					200 b				
To: DC Line									
Total Funds:									1,460

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
MD 355 Multimodal Crossing											
TIP ID: 5724 Agency ID: P501209		Title: MD 355 Multimodal Crossing Project					Complete:		Total Cost:		\$72,980
Facility: MD MD 355 Multimodal Crossing		OEA	100/0/0	1,352 a	305 a					6,139	
From: MD Medical Center Metrorail Station/NIH				264 c	2,603 c						
To: MD Walter Reed National Military Medical C				1,410 e	205 e						
		State	0/100/0	4,806 c						4,806	
Total Funds:										10,945	

Description: This project provides for right-of-way negotiations, utility relocations, and the design and construction of a multimodal grade separated connection between the Walter Reed National Military Medical Center (WRNMMC) and the Medical Center Metro Rail station. The project consists of two major elements: (1) a shallow pedestrian and bicycle underpass below Rockville Pike, MD 355, just south of the South Wood Road/South Drive intersection. Access to the underpass will be provided by elevators, escalators and stairs; and (2) a bank of three high speed elevators, on the eastern side of MD 355 that will provide a direct connection from the WRNMMC to the existing Metro station mezzanine, about 120 feet below the elevation of MD 355. Canopies will cover the stairs and escalators. The project also includes extension of the southbound MD 355 left turn lane in the existing median to provide additional queuing for vehicles turning to the WRNMMC hospital entrance at South Wood Road; expansion of the curb radius at the northwestern corner of MD 355 / South Drive to improve bus access to the Metrorail station; and stormwater management. The scope of the work is included in the National Environmental Policy Act (NEPA) document prepared earlier by the County Department of Transportation (DOT) and approved by the Federal Highway Administration. A pedestrian impact analysis has been completed for this project

Metropolitan Branch Trail											
TIP ID: 5942 Agency ID: P501110		Title: Metropolitan Branch Trail					Complete:		Total Cost:		\$12,147
Facility: Metropolitan Branch Trail		Local	0/0/100	100 a	361 a					6,087	
From: End of existing trail in Takoma Park				500 c	4,795 c						
To: Silver Spring Transit Center					331 e						
Total Funds:										6,087	

Description: This project provides for completion of the preliminary engineering and final engineering necessary to obtain CSX and WMATA approvals for the 0.62-mile segment of this trail in Montgomery County between the end of the existing trail in Takoma Park, and the Silver Spring Transit Center. The trail will be designed to be 8 feet to 10 feet in width. This project also includes the land acquisition, site improvements, utility relocations and construction of the project from the Silver Spring Transit Center to the east side of Georgia Avenue, including a new or expanded pedestrian bridge over Georgia Avenue, as well as the segment along Fenton Street, from King Street to the north end of the existing trail. The design will also include a grade-separated crossing of Burlington Avenue, the narrowing of Selim Road, the trail segment on King Street, and the construction of new retaining walls and reconstruction of existing retaining walls. A pedestrian impact analysis has been completed for this project. This trail is to be part of a larger system of trails to enable non-motorized travel around the Washington Region. The trail is to be an off-road facility serving pedestrians, bicyclists, joggers and skaters and will be Americans with Disabilities Act (ADA) accessible.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Needwood Road Bikepath									
TIP ID: 6016 Agency ID: P501304 Title: Needwood Road Bikepath			Complete:				Total Cost:		\$4,200
Facility: Needwood Road Bikepath	Local	0/0/100	62 a						632
From: Deer Lake Road			280 c						
To: Muncaster Mill Road			290 e						
Total Funds:									632

Description: This project provides for the design and construction of a new 8-foot wide shared use path along the south side of Needwood Road, a distance of approximately 1.7 miles, between Deer Lake Road and Muncaster Mill Road (MD 115) in order to provide a safe and continuous pedestrian and bike connection to the Shady Grove Metro Station, Colonel Zadok Magruder High School, the Inter-County Connector (ICC) Shared Use Path, Rock Creek Trail, future North Branch Trail, and Rock Creek Regional Park (Lake Needwood). The project will also include the design and construction of the crossing of Muncaster Mill Road at Needwood Road intersection and a new 6-foot sidewalk along the east side of Muncaster Mill Road, a distance of approximately 450 feet, from Needwood Road to Colonel Zadok Magruder High School.

Pedestrian Safety Program									
TIP ID: 3642 Agency ID: P500333 Title: Pedestrian Safety Program			Complete:				Total Cost:		\$19,512
Facility: Pedestrian Safety Program	Local	0/0/100	146 a	146 a	100 a	100 a			6,622
From: Countywide			1,250 c	1,380 c	1,250 c	1,250 c			
To:			250 e	250 e	250 e	250 e			
Total Funds:									6,622

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Seven Locks Bikeway & Safety Improvements									
TIP ID: 6017 Agency ID: P501303 Title: Seven Locks Bikeway & Safety Improvements			Complete:				Total Cost:		\$27,944
Facility: Seven Locks Bikeway & Safety Improvemen	Local	0/0/100	1,723 a	1,334 a	20 a				6,993
From: Montrose Road				346 b	3,570 b				
To: Bradley Boulevard									
Total Funds:									6,993

Description: This project provides for pedestrian and bicycle improvements for dual bicycle facilities (on-road and off-road), and enhanced, continuous pedestrian facilities along Seven Locks Road from Montrose Road to Bradley Boulevard (3.3 miles), plus a bike path on Montrose Road between Seven Locks Road and the I-270 ramp, plus northbound and eastbound auxiliary through lanes with on-road bike lanes at the intersection of Seven Locks Road and Tuckerman Lane. This project is needed to address bicycle facility disconnects along Seven Locks Road. The roadway lacks adequate north-south, on road/off-road bicycle facilities necessary to provide continuity and connection between existing and future bike facilities. Continuous bicycle and pedestrian facilities are needed to allow safe access to residential, retail and commercial destinations, as well as existing religious and educational facilities. The project is broken down into three phases: Phase I provides dual bikeway and pedestrian facilities for the segment of Seven Locks Road from Montrose Road to Tuckerman Lane including the bike path on Montrose and the improvements to the Tuckerman Lane intersection. This project currently provides funding for Phase 1 improvements only. Phase 2 provides a dual bikeway and pedestrian facilities for the segment of Seven Locks Road from Tuckerman Lane to Democracy Boulevard. Phase III provides a dual bikeway and pedestrian facilities for the segment of Seven Locks Road from Democracy Boulevard to Bradley Boulevard.

Sidewalk & Infrastructure Revitalization									
TIP ID: 5975 Agency ID: P508182 Title: Sidewalk & Curb Replacement			Complete:				Total Cost:		\$56,059
Facility: Countywide	Local	0/0/100	1,005 a	1,005 a	1,005 a	1,005 a			26,800
From:			5,695 c	5,695 c	5,695 c	5,695 c			
To:									
Total Funds:									26,800

Description: This project provides for the removal and replacement of damaged or deteriorated sidewalks, curbs, and gutters in business districts and residential communities. MCDOT currently maintains about 1,034 miles of sidewalks and about 2,098 miles of curbs and gutters. This project includes: overlay of existing sidewalks with asphalt; base failure repair and new construction of curbs; and new sidewalks with handicapped ramps to fill in missing sections. A significant aspect of this project has been and will be to provide safe pedestrian access and ensure compliance with the Americans with Disabilities Act (ADA).

Sidewalk Program - Minor Projects									
TIP ID: 3067 Agency ID: P506747 Title: Sidewalk Program - Minor Projects			Complete:				Total Cost:		\$20,238
Facility: Sidewalk Program - Minor Projects	Local	0/0/100	520 a	520 a	520 a	520 a			9,656
From:			6 b	6 b	6 b	6 b			
To:			1,874 c	1,874 c	1,874 c	1,874 c			
			14 e	14 e	14 e	14 e			
Total Funds:									9,656

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Transportation Improvements for Schools

TIP ID: 6364	Agency ID: P509036	Title: Transportation Improvements for Schools	Complete:	Total Cost: \$1,775
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Facility: Various	Local	0/0/100	209 e	209 e	209 e	209 e			836
From:									
To:	Total Funds: 836								

Description: This project provides for transportation improvements such as intersection modifications, sidewalks, traffic signals, streetlights etc. for safe pedestrian and vehicular curicluation identified in the Montgomery County Public Schools Capital Program. Schools include but are not limited too: Page Elementary, Sligo Middle School, Cloverly Elementary School and Glenhaven Elementary School. Specific Safe Routes to School studies and assessments are included separately in the MCDOT operating budget. 🚲

Bridge

Beach Drive Bridge M-PK-24001

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

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

Bridge Renovation

TIP ID: 5972	Agency ID: P509753	Title: Bridge Renovation	Complete:	Total Cost: \$8,211
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Facility: County-wide	Local	0/0/100	90 a	90 a	90 a	90 a			360
From:									
To:	State/Local	0/16/84	610 c	610 c	610 c	610 c			2,440
									Total Funds: 2,800

Description: This project provides for the renovation of County roadway and pedestrian bridges that have been identified as needing repair work beyond routine maintenance levels to assure continued safe functioning.

Brink Road Bridge M-0064001

TIP ID: 5913	Agency ID: P509132	Title: Brink Road Bridge M-0064001	Complete: 2019	Total Cost:
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Facility: Brink Road Bridge M-0064001	BR	80/0/20	200 a						200
From: Over Great Seneca Creek									
To:	Total Funds: 200								

Description: This project provides for the rehabilitation of the Brink Road Bridge, over Great Seneca Creek, as well as the reconstruction of the roadway approaches.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Garrett Park Road Bridge M-PK-04001									
TIP ID: 5916 Agency ID: P509132 Title: Garrett Park Road Bridge M-PK-04001			Complete:		Total Cost:				
Facility: Garrett Park Road Bridge M-PK-04001	BR	80/0/20	200	a					200
From: Over Rock Creek									
To:									Total Funds: 200
Description: This project provides for the rehabilitation of Garrett Park Road Bridge M-PK-04001 over Rock Creek, and the reconstruction of roadway approaches									

Piney Meetinghouse Road Bridge M-0021001									
TIP ID: 5919 Agency ID: P501522 Title: Piney Meetinghouse Road Bridge M-0021001			Complete:		Total Cost: \$4,025				
Facility: Piney Meetinghouse Road Bridge M-002100	BR	70/0/30	258	a					1,996
From: Over Watts Branch			1,595	c					
To:			143	e					
									Total Funds: 1,996
Description: This project provides for the preliminary engineering for the rehabilitation or reconstruction of the bridge on Piney Meetinghouse Road over Watts Branch, and reconstruction roadway approaches.									

Enhancement									
Silver Spring Green Trail									
TIP ID: 3125 Agency ID: P509975 Title: Silver Spring Green Trail			Complete:		Total Cost: \$4,279				
Facility: Silver Spring Green Trail	Local	0/0/100			1,259	c			1,259
From: Fenton Street									
To: Sligo Creek Hiker-Biker Trail	State/Local	0/40/60	1,221	c					1,221
									Total Funds: 2,480

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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**ITS
Advanced Transportation Management System**

TIP ID: 3065	Agency ID: P509399	Title: Advanced Transportation Management System	Complete:	Total Cost:	\$59,233
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Facility: Advanced Transportation Management Syst	Local	0/0/100	177 a	177 a	177 a	177 a			8,032
From:			1,831 e	1,831 e	1,831 e	1,831 e			
To:									
Total Funds:									8,032

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

Traffic Signal System Modernization

TIP ID: 3648	Agency ID: P500704	Title: Traffic Signal System Modernization	Complete:	Total Cost:	\$40,849
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Facility: Traffic Signal System Modernization	Local	0/0/100	100 a	100 a	100 a	100 a			4,952
From:			1,138 e	1,138 e	1,138 e	1,138 e			
To:									
Total Funds:									4,952

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

**Other
East Gude Drive Roadway Improvements**

TIP ID: 6018	Agency ID: P501309	Title: East Gude Drive Roadway Improvements	Complete:	Total Cost:	\$6,027
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Facility: East Gude Drive Roadway Improvements	Local	0/0/100	749 a	367 a	26 a	100 a			2,586
From: Crabbs Branch Way				50 b	179 b	1,115 c			
To: Southlawn Lane									
Total Funds:									2,586

Description: This project provides for the design, land acquisition, and construction of roadway improvements along East Gude Drive from Crabbs Branch Way to Southlawn Lane to increase roadway capacity, and to improve vehicular and pedestrian safety. The improvements will: (1) add a westbound lane (800 linear feet) from Calhoun Drive to Crabbs Branch Way; (2) extend the length of the eastbound taper east of Calhoun Drive (500 linear feet) to west of Incinerator Lane; (3) provide an east-to-northbound left turn lane (300 Feet) at Dover Road; (4) construct the missing section of sidewalk on the north side of East Gude Drive from west of Incinerator Lane to east of Calhoun Drive (550 linear feet); and (5) install 6 foot sidewalk connectors from each bus stop on the north side of East Gude Drive to the nearest intersection. A pedestrian impact analysis has been completed for this project. This project is needed to reduce existing and future congestion and improve pedestrian and vehicular safety. Planning and Design begin in FY 17; construction is to be completed by FY 21, and is funded in the "Beyond 6 Years" period", which begins on July 1, 2018.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Intersection & Spot Improvements									
TIP ID: 5980 Agency ID: P507017 Title: Intersection & Spot Improvements			Complete:				Total Cost:		\$10,117
Facility: Intersection & Spot Improvements	Local	0/0/100	322 a	322 a	336 a	1,344 e			5,224
From: County-wide			10 b	10 b	10 b				
To: County-wide			700 c	772 c	798 c				
			200 e	200 e	200 e				
Total Funds:									5,224

Description: This project provides for the planning and reconstruction of various existing intersections in Montgomery County, and for an annual congestion study to identify locations where there is a need for congestion mitigation. The project includes the identification and implementation of corridor modifications and traffic calming treatments to enhance pedestrian safety. At these identified locations either construction begins immediately or detailed design plans are prepared and developed into future projects. A pedestrian impact analysis will be performed during design or is in progress.

Neighborhood Traffic Calming									
TIP ID: 5981 Agency ID: P509523 Title: Neighborhood Traffic Calming			Complete:				Total Cost:		\$2,801
Facility: Neighborhood Traffic Calming	Local	0/0/100	74 a	74 a	74 a	74 a			1,240
From: Residential Neighborhoods County-wide			236 e	236 e	236 e	236 e			
To:									
Total Funds:									1,240

Description: This project provides for the planning, design, and construction of physical traffic control features in residential neighborhoods. Traffic calming features such as traffic circles and islands, curb extensions, speed humps, physical and painted lane narrowing devices, etc., are used to maintain and improve the safety and livability of residential neighborhoods by addressing issues of aggressive driving and excessive speeds and volumes.

Seminary Road Intersection Improvement									
TIP ID: 6019 Agency ID: P501307 Title: Seminary Road Intersection Improvement			Complete:				Total Cost:		\$7,258
Facility: Seminary Road Intersection Improvement	Local	0/0/100	363 a	289 a	473 a	318 e			6,792
From: Brookeville Road Seminary Place Intersectio			170 b	377 b	2,691 c				
To: Linden Lane/Second Avenue Intersection				1,859 c	252 e				
Total Funds:									6,792

Description: This project provides for the design, land acquisition and construction of an approximate 40 foot segment of Seminary Road between the Brookeville Road/Seminary Place, and Linden Lane / Second Avenue intersections on a new alignment; reconstruction of 650 feet of Seminary Place from Seminary Road to 450 Feet east of Riley Place with a vertical alignment revision at Riley Place: increasing the Linden Lane curb lane widths along the 250 foot section between Brookeville Road and Second Avenue to provide two 15-foot shared use lanes to accommodate bicyclists; and reconstruction of the 350 foot segment Brookeville Road between Linen Lane and Seminary Road. Seminary Road will be a closed-section roadway with two 15-foot shared use lanes and a sidewalk along the northern side. Brookeville Road will be a closed-section roadway with one southbound 16-foot shared use lane, sidewalks, and a parking lane on the western side. The project includes street lights, landscaping and stormwater management. The project will simplify vehicle movements and improve traffic congestion by eliminating the Seminary Road "sweep" between Brookville Road and Second Avenue, and pedestrian and bicyclist safety will be improved. The proposed Seminary Place vertical alignment revision at Riley Place will increase intersection sight distance. A pedestrian impact analysis has been completed for this project.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Streetlight Enhancements - CBD /Town Center									
TIP ID: 5982 Agency ID: P500512 Title: Streetlight Enhancements - CBD / Town Center			Complete:				Total Cost:		\$3,930
Facility: Streetlight Enhancements - CBD / Town Cen	Local	0/0/100	50 a	50 a	50 a	50 a			1,000
From: CBDs and Town Centers			200 e	200 e	200 e	200 e			
To:									
Total Funds:									1,000

Description: This project provides for the evaluation and enhancement of street lighting within and around the Central Business Districts (CBDs) and town centers where current lighting does not meet minimum Illuminating Engineering Society of North America (IESNA) standards. This project will fill in street lighting; standardize streetlight types; and replace sodium vapor lighting. This project is needed to provide visibility and safety improvements in areas where there is a high concentration of pedestrians, bicyclists, and vehicles.

Traffic Signals									
TIP ID: 6065 Agency ID: P507154 Title: Traffic Signals			Complete:				Total Cost:		\$40,889
Facility:	Local	0/0/100	725 a	725 a	725 a	725 a			19,340
From:			4,110 e	4,110 e	4,110 e	4,110 e			
To:									
Total Funds:									19,340

Description: This project provides for the design, construction and maintenance of vehicular and pedestrian traffic signals and signal systems including: new and existing signals; reconstruction / replacement of aged and obsolete signals and components; auxiliary signs; accessible pedestrian signals (APS); updates of the County's centrally-controlled computerized traffic signal system; communications and interconnect into the signal system. Increases in congestion levels and the number of accidents necessitate a continued investment in the traffic signal system to: increase intersection safety; accommodate changes in traffic patterns and roadway geometry; reduce intersection delays, energy consumption and air pollution; and provide coordinated movement on arterial routes through effective traffic management and control, utilizing modern traffic signal technologies.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
White Flint District East - Transportation										
TIP ID: 5985	Agency ID: P501204	Title: White Flint District East - Transportation				Complete:		Total Cost:		\$29,690
Facility: White Flint District East	Local	0/0/100		460 a	400 a					7,800
From:				3,300 c	3,300 c					
To:				340 e						
Total Funds:										7,800

Description: This project provides for completion of preliminary engineering to 35% plans for three new roads and one bridge in the White Flint District East side area as follows:

PROJECT 1

Executive Blvd. Extended East (B-7): MD 355 (Rockville Pike) to New Private Street
(Construct 1100' of 4-lane roadway)

PROJECT 2

Executive Blvd. Extended East (B-7): New Private Street to new Nebel Street Extended.
(Construct 600' of 4-lane roadway)

PROJECT 3

Nebel Street (B-5): Nicholson Lane South to combined property
(Construct 1,200' of 4-lane roadway)

PROJECT 4

Bridge across White Flint Metro Station on future MacGrath Boulevard between MD 355 and future Station Street.
(Construct 80' long 3-lane bridge)

The vision for the White Flint District is for a more urban core with a walkable street grid, sidewalks, bikeways, trails, paths, public use space, parks and recreational facilities, mixed-use development, and enhanced streetscape to improve the areas for pedestrian circulation and transit oriented development around the Metro station.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
White Flint District West: Transportation & Workaround										
TIP ID: 5986 Agency ID: P501116 & P50 Title: White Flint District West: Transportation & West Workaround				Complete:				Total Cost:		\$133,784
Facility:	White Flint District West: Transportation & Local		0/0/100	2,057 a	2,313 a	2,944 a	2,570 a			59,515
From:				8,978 c	13,897 c	5,120 c	208 b			
To:				12,529 e	6,699 e	950 e	1,250 c			

Total Funds: 59,515

Description: This project provides for engineering, utility design, and land acquisition for one new road, one relocated road, improvements to three existing roads, and one new bikeway in the White Flint District area for Stage 1. The project also includes both design and future construction expenditures for the reconstruction of Rockville Pike and Hoya Street. Various improvements to the roads will include new traffic lanes, shared-use paths, undergrounding of overhead utility lines where required, other utility relocations and streetscaping. The new White Flint West Workaround project (CIP #501506) continues funding for several western workaround road projects. The following projects are funded through FY14 for final design:

1. Main Street/Market Street (B-10) – Old Georgetown Road (MD 187) to Woodglen Drive – new two-lane 1,200 foot roadway.
 2. Main Street/Market Street (LB-1) – Old Georgetown Road (MD 187) to Woodglen Drive – new 1,200 foot bikeway.
 3. Executive Boulevard Extended (B-15) – Marinelli Road to Old Georgetown Road (MD 187) – 900 feet of relocated four-lane roadway.
 4. Intersection of Hoya Street (formerly 'Old' Old Georgetown Road) (M-4A), Old Georgetown Road, and Executive Boulevard, including the approaches to Old Georgetown Road.
- The following projects are proposed for both design and construction in the FY19-20 and Beyond 6-Years periods:
5. Rockville Pike (MD 355) (M-6) – Flanders Avenue to Hubbard Drive – 6,300 feet of reconstructed 6-8 lane roadway.
 6. Hoya Street (M-4A) – Montrose Parkway to the intersection of Old Georgetown Road – 1,100 feet of reconstructed four-lane roadway.

This project also provides for analysis and studies necessary to implement the district. Design is underway on all road projects in the western workaround, with the exception of the Rockville Pike segment, and will conclude in FY15 (FY15 design is funded through White Flint West Workaround). Design of the Rockville Pike section will begin in FY19 and will conclude in FY21 in order to coordinate with the implementation of the Rapid Transit System (RTS) (CIP #501318). Some property acquisition may occur on this section in FY20. The current expenditure/funding schedule assumes that land needed for road construction will be dedicated by the developers.

White Flint Traffic Analysis and Mitigation

TIP ID: 5987 Agency ID: P501202 Title: White Flint Traffic Analysis and Mitigation				Complete:				Total Cost:		\$1,787
Facility:	White Flint Traffic Analysis and Mitigation	Local	0/0/100	81 a	81 a	81 a	81 a			324
From:	White Flint Sector Plan and Surrounding Area									
To:										

Total Funds: 324

Description: This project is programmed in direct response to requirements of the Approved White Flint Sector Plan. It is composed of three components with the overall goal of mitigating the traffic impacts on communities and major intersections outside of, and surrounding, the White Flint Sector Plan area that will occur as a result of the redevelopment densities approved under the Approved White Flint Sector Plan. These components include:

- A. Cut-through traffic monitoring and mitigation
 - B. Capacity improvements to address congested intersections
 - C. A study of strategies and implementation techniques to achieve the Sector Plan's modal split goals. The modal split study will identify specific infrastructure projects to create an improved transit, pedestrian, and biking infrastructure; and programs needed to accomplish the mode share goals; determine funding sources for these strategies; and determine the scope and cost of project components.
- Transit, pedestrian, bicycle access, safety studies, and TDM planning and implementation efforts are required to facilitate White Flint's transition from a highly automobile oriented environment to a more transit, pedestrian, and bicycle friendly environment. Once specific improvements are identified and concepts developed, detailed design and construction will be programmed in a stand alone PDF.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Maintenance									
Bridge Preservation Program									
TIP ID: 5971 Agency ID: P500313 Title: Bridge Preservation Program			Complete:				Total Cost:		\$9,807
Facility: Bridge Preservation Program	Local	0/0/100	152 a	152 a	152 a	152 a			2,056
From: County-wide			2 b	2 b	2 b	2 b			
To: County-wide			360 c	360 c	360 c	360 c			

Total Funds: 2,056

Description: This project includes actions or strategies that prevent, delay or reduce deterioration of bridges or bridge elements, restore the function of existing bridges, keep bridges in good condition and extend their useful lives. Preservation actions may be preventive or condition driven.

Resurfacing: Primary/Arterial

TIP ID: 5974 Agency ID: P508527 Title: Resurfacing: Primary / Arterial			Complete:				Total Cost:		\$59,518
Facility: County-wide	Local	0/0/100	915 a	915 a	915 a	915 a			24,400
From:			5,185 c	5,185 c	5,185 c	5,185 c			
To: County-wide									

Total Funds: 24,400

Description: Montgomery County maintains approximately 966 lane miles of primary and arterial roadways. This project provides for the systematic milling, repair, and bituminous concrete resurfacing of selected primary and arterial roads and revitalization of others. This project provides for a systematic full-service, and coordinated revitalization of the primary and arterial road infrastructure to ensure viability of the primary transportation network, and enhance safety and ease of use for all users. One aspect of this project will focus on improving pedestrian mobility by creating a safer walking environment, utilizing selected engineering technologies, and ensuring compliance with the Americans with Disabilities Act (ADA).

Transit Park and Ride Lot Renovations

TIP ID: 5976 Agency ID: P500534 Title: Transit Park and Ride Lot Renovations			Complete:				Total Cost:		\$3,039
Facility: Transit Park and Ride Lot Renovations	Local	0/0/100	125 a	125 a					1,352
From:			718 c	384 c					
To:									

Total Funds: 1,352

Description: This project provides repairs and renovations to parking lots at transit Park and Ride lots, transit centers, and MARC Rail lots to allow them to continue functioning as transit facilities and comply with the Americans with Disabilities Act (ADA) requirements. In FY 08 and FY 09, an evaluation and assessment of all park and ride facilities, including ADA accessibility and pedestrian safety, was completed to provide scope and detailed cost estimates for the restoration and upgrades. The County operates 10 transit park and ride lots in major transportation corridors. Several County park and ride lots have had major failures, resulting from the age and use of the facilities. Some of the lots were constructed more than 20 years ago. Pavement and the entrances were not constructed to support heavy bus traffic. Additionally, the County is responsible for the maintenance of eight MARC Park and Ride lot facilities. The same ADA and lot failure issues exist with these lots.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Transit											
ADA Compliance Transportation Access											
TIP ID: 3068		Agency ID: P509325		Title: ADA Compliance Transportation Access				Complete:		Total Cost:	\$12,068
Facility: ADA Compliance Transportation Access		Local		0/0/100		283 a	283 a	283 a	283 a	6,100	
From:				1,214 c	1,214 c	1,214 c	1,214 c				
To:				28 e	28 e	28 e	28 e				

Total Funds: 6,100

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

Bethesda Metro South Entrance											
TIP ID: 5560		Agency ID: P500929		Title: Bethesda Metro South Entrance				Complete:		Total Cost:	\$57,610
Facility: Bethesda Metro South Entrance		Local		0/0/100		12,624 c	12,262 c	10,162 c	6,437 c	41,485	
From: Elm Street west of Wisconsin Avenue											
To:											

Total Funds: 41,485

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

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

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

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Bus Stop Improvement Program											
TIP ID: 3063		Agency ID: P507658		Title: Bus Stop Improvement Program				Complete:		Total Cost:	\$6,387
Facility: Bus Stop Improvement Program		Local		0/0/100		151 a	155 a			1,324	
From:				345 b	357 b						
To:				155 c	161 c						

Total Funds: 1,324

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

RideOn Bus Fleet											
TIP ID: 3072		Agency ID: P500821		Title: Ride On Bus Fleet				Complete:		Total Cost:	\$190,352
Facility: Ride On Bus Fleet		Local		0/0/100		6,873 e	15,247 e	19,591 e	15,260 e	56,971	
From: Countywide		Sect. 5307		100/0/0		1,600 e	1,600 e	1,600 e	1,600 e	6,400	
To:		State		0/100/0		400 e	400 e	400 e	400 e	1,600	

Total Funds: 64,971

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

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

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Prince George's County

Primary

Contee Road Reconstruction

TIP ID: 5424	Agency ID:	Title: Contee Road Reconstruction	Complete: 2017	Total Cost: \$21,367
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Facility: Contee Road	Local	0/0/100	28 a						1,052
From: US 1 Baltimore Avenue			1,024 c						
To: MD 201 Kenilworth Avenue / Virginia Manor									
Total Funds:									1,052

Description: This project will include the reconstructin of Conttee Road from US 1 to the proposed Virginia Manor Road east (MD 201/ Kennilworth Avenue extended). The improvements will include the construction of a 4 lane divided roadway with median, bicycle lanes, sidewalks, street lights, traffic signals, curb and gutter and landscaping. The improvement is needed to serve planned development in the area and to improve access to the Laurel regional Hospital

TIP ID: 5425	Agency ID:	Title: Construct Contee Road from I-95 to Old Gunpowder Road	Complete: 2017	Total Cost: \$21,367
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Facility: Contee Road	Local	0/0/100	28 a						1,052
From: US 1 Baltimore Avenue			1,024 c						
To: MD 201 Extended/Virginia Manor Road/Cont									
Total Funds:									1,052

Description: Construction a new segment of Contee Road from west of the proposed I-95 interchange (SHA Project) to Old Gunpowder Road and reconstruct/re:ocate Contee Road from US 1 to Kenilworth Avenue extended west/existing Virginia Manor Road.

Secondary

Addison Road

TIP ID: 6367	Agency ID:	Title: Addison Road I	Complete: 2021	Total Cost: \$20,510
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Facility: Addison road	Local	0/0/100	300 a	64 a	1,000 c	5,000 c			7,364
From: Walker Mill Road			500 b	500 b					
To: MD 214 (Central Avenue)									
Total Funds:									7,364

Description: The project consists of reconstructing Addison Road from Walker Mill Road to MD 214. Initially four travel lanes with a median will be constructed Improvements will include roadway widening, the construction of crosswalks, sidewalks, landscaping, street lighting and a roadway median to improve the safety, function, capacity and appearance of the roadway. The cost shown does not reflect current prices and is based on over 10 year old project scope. Current preliminary engineering has estimated that the cost could go up to \$32 million.

Auth Road

TIP ID: 5608	Agency ID:	Title: Auth Road II	Complete: 2021	Total Cost: \$16,100
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Facility: Auth Road	Local	0/0/100	100 a	200 a	200 a				500
From: Allentown Road									
To: Metro Access Road (Woods Way)									
Total Funds:									500

Description: Auth Road, Phase II consists of reconstructing Auth Road from henderson Way to Allentown Road. This project will resolve storm drainage problems and enhance pedestrian access and safety. Traffic signals, sidewalks, street lighting and landscaping will be installed.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Cherry Hill Road

TIP ID: 6369 Agency ID:		Title: Cherry Hill Road III					Complete: 2021	Total Cost: \$1,200	
Facility: Cherry Hill Road	Local	0/0/100		300 a	400 a	500 a			1,200
From: Selman Road									
To: US 1									
Description:									
								Total Funds:	1,200

Contee Road

TIP ID: 3114 Agency ID:		Title: Contee Road					Complete: 2017	Total Cost: \$25,467	
Facility: Contee Road	Local	0/0/100		28 a					1,052
From: US 1				1,024 c					
To: MD 201 Extended/Virginia Manor Road/Cont									
								Total Funds:	1,052

Description: This project will include the reconstruction of Contee Road from US 1 to the proposed Virginia Manor Road eas (MD 201/Kenilworth Avenue extended). The improvements will include the construction of a 4 lane divided roadway with median, bicycle lanes, sidewalks, street lights, traffic signal, curb and gutter and landscaping. This improvement is necessary to serve planned development in the area and to improve access to the Laurel Regional Hospital.

Governor Bridge Road

TIP ID: 6509 Agency ID:		Title: Governor's Bridge Road Bridge Reconstruction					Complete: 2020	Total Cost: \$4,210	
Facility: Governor's Bridge Road Bridge Reconstructi	BR	80/0/20	300 a	300 a	50 a				3,700
From: west of Patuxent River				50 b	1,500 c				
To: east of Patuxant river				1,500 c					
	Local	0/0/100		180 e	180 e				360
								Total Funds:	4,060

Description:

Livingston Road and Bridge

TIP ID: 5806 Agency ID:		Title: Bridge Replacement - Livingston Road					Complete: 2017	Total Cost: \$6,758	
Facility: Bridge Replacement - Livingston Road	BR	80/0/20	1,200 c						1,200
From:									
To: Over Piscataway Creek									
								Total Funds:	1,200

Description: This project will replace the existing Livingston Road Bridge over Piscataway Creek, reconstruct the approach roadways and install sidewalks, street lights, and landscaping. Funding for the bridge replacement is anticipated to be 80% Federal Aid for design and construction. Right of way, wetland, mitigation, and necessary roadway rehabilitation beyond the bridge and approach limits are anticipated to be County funded. the bridge is currently load restricted to 58,000 pounds and was originally constructed in 1932.

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Old Gunpowder Road									
TIP ID: 5258 Agency ID:		Title: Old Gunpowder Road II				Complete: 2018		Total Cost: \$17,764	
Facility: Old Gunpowder Road	Local	0/0/100	150 a	100 a					11,450
From: Powder Mill Road			1,400 b	5,000 c					
To: Greencastle Road			4,800 c						

Total Funds: 11,450

Description: This project is composed of two phases. Phase I consists of designing the ultimate, four lane divided urban collector section from Greencastle Road to Denim Road. A developer will construct two lanes of the four-lane divided section from 400 feet south of Greencastle Road to Briggs Chaney Road. Phase II consists of constructing the remaining unbuild portion of the ultimate full collector section from Greencastle Road to Denim Road. Included is the construction of an additional bridge over I-95. "Developer" funding consists of potential contributions from area developments that have traffic impacts to the roadway. The improvements are needed to serve planned development in the area.

Suitland Road									
TIP ID: 3157 Agency ID:		Title: Suitland Road				Complete: 2018		Total Cost: \$8,295	
Facility: Suitland Road	Local	0/0/100	50 a	20 a					8,608
From: MD Allentown Road			80 b	43 b					
To: Suitland Parkway			4,208 c	4,207 c					

Total Funds: 8,608

Description: Redevelopment and reconstruction to provide a four-lane facility to support local development and to improve safety and area traffic flow.

Surratts Road									
TIP ID: 3159 Agency ID:		Title: Surratts Road				Complete: 2017		Total Cost: \$6,018	
Facility: Surratts Road	Local	0/0/100	700 b	2,000 c					2,700
From: Beverly Ave.									
To: Brandywine Road									

Total Funds: 2,700

Description: This project consists of upgrading Surratts Road to a collector-type roadway from the general vicinity of Beverly Avenue westward to Brandywine Road and improvements to Brandywine Road from Thrift Road to approximately 500 feet north of Surratts Road. A portion of Surratts Road will be relocated to improve the alignment of the intersection at Brandywine Road. Phase 2, which is not programmed at this time will provide improvements from Summit Creek Drive to Beverly Avenue. This project will be partially funded with developer contributions. This project will improve existing traffic service and provide sufficient capacity for projected area development. It will tie into developer improvements on Surratts Road, and will enable a continuous collector-type roadway to be in place from the vicinity of MD 5 to Brandywine Road

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Traffic Congestion Improvemets

TIP ID: 6373	Agency ID:	Title: Traffic Congestion Improvemets	Complete: 2020	Total Cost: \$17,842
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Facility: Various locations County-wide	Local	0/0/100	1,000 a	1,000 a	1,000 a	1,000 a			13,000
From:			1,500 c	2,500 c	2,500 c	2,500 c			
To:									
Total Funds:									13,000

Description: This project provides funding for roadway enhancements including turning lanes, improved approaches, traffic signals, signage at various intersections, bus stop pads, traffic calming devices, landscaping, pedestrian facilities and thermoplastic markings. This project will also provide for roadway improvements that are oriented toward enhancement of pedestrian safety, particularly along roadways or at intersections which have a history of crashes. Included in the work to be performed is the acquisition of right-of-way along the Leeland Road approach to be the Leeland Road/Moores Plains Boulevard intersection. FY 2015 "other" funding includes \$75k from developer contributions. 🚲

Wheeler Road

TIP ID: 3166	Agency ID:	Title: Wheeler Road	Complete: 2018	Total Cost: \$4,170
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Facility: Wheeler Road	Local	0/0/100	40 a	19 a					868
From: Owens Road			238 b	571 b					
To: St. Barnabas Road									
Total Funds:									868

Description: This project consists of providing geometric improvements at the intersection of Wheeler Road at Owens Road and Saint Barnabas Road. The project limits extend from Saint Brnabas Road to west of Owens Road. This modification will eliminate congestion caused by traffic at Owens Road.

Bike/Ped

Pedestrian Safety Improvements

TIP ID: 6370	Agency ID:	Title: Pedestrian Safety Improvements	Complete: 2020	Total Cost: \$26,250
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Facility: Various locations County-wide	Local	0/0/100	800 a	800 a	800 a	400 a			23,000
From:			6,200 c	6,200 c	6,200 c	1,600 c			
To:									
Total Funds:									23,000

Description: This project will involve the creation of multiple projects to provide for roadway improvements that are oriented toward the enhancement of pedestrian safety, particularly along roadways or at intersections which have a history of crashes. Priority will be given to the correction of problems where there is a high incidence of pedestrian related crashes. This is a project intended for sub-projects with no right-of-way cost, and with a construction cost of \$750,000 each or less.

School access project

TIP ID: 6026	Agency ID:	Title: School Access Project	Complete:	Total Cost: \$1,900
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Facility: Various locations County-wide	Local	0/0/100	100 c	100 c	100 c	100 c			400
From:									
To:									
Total Funds:									400

Description: This project provides funding for vehicular and pedestrian access improvements, in conjunction with the construction of new schools or renovations and additions to existing school buildings. This project provides sidewalks, crosswalks and other enhancements for students walking within 1 to 1.5 miles of their respective schools in accordance with the current Prince George's County Board of Education policy. In addition, Federal funding through the State of Maryland is for the Safe Routes to School (SRTS) program, to engage and encourage children to safely walk or bike to school including children with disabilities within two miles of school (K-8)

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

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Bridge

Bridge Rehabilitation, Federal Aid

TIP ID: 5401	Agency ID:	Title: Bridge Replacement, Federal Aid	Complete: 2020	Total Cost: \$2,050
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Facility: Bridge Replacement Federal Aid	BR	80/0/20	300 a	200 a					2,050
From: various locations			900 c	650 c					
To: various locations									

Total Funds: 2,050

Description: This project will rehabilitate deteriorated bridges exceeding 20 feet in length where the current deteriorated condition of the bridges does not warrant replacement. Federal Aid funding will be utilized for design and construction of the projects at an 80/20 federal/local ratio.

Enhancement

County Revitalization & Restoration 2

TIP ID: 6023	Agency ID:	Title: Coounty Revitalization & Restoration 2	Complete: 2020	Total Cost: \$5,300
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Facility: Various locations County-wide	Local	0/0/100	200 a	100 a	100 a	100 a			3,100
From:			800 c	600 c	600 c	600 c			
To: Various locations County-wide									

Total Funds: 3,100

Description: This project provides for infrastructure improvements and reconstruction in areas targeted for revitalization. Funding is provided for street improvements along major and minor roadways and at key interstections to improve their function, safety and appearance while also improving access and addressing environmental issues. Improvements will include the installation of traffic signals, intersections modifications, drainage structures, street lighting, landscaping, water quality and quantity measures, bicycle lanes, sidewalks, and other amenities necessary to improve or expand roadway infrastructure while enhancing the appearance of the community. This project will accommodate critical improvements associated with the County's revitalization and economic development efforts. In particular, the area inside the beltway between MD 214 and Southern Avenue is a priority.

Green Street Improvements

TIP ID: 6003	Agency ID:	Title: Green/Complete Street Improvements	Complete: 2020	Total Cost: \$28,355
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Facility: Various locations County-wide	Local	0/0/100	350 a	84 a					9,305
From:			250 b	2,321 c					
To:			6,300 c						

Total Funds: 9,305

Description: This project provides funding for a variety of street improvements along major roadways and at key intersections to improve their appearance, safety and functionality while addressing environmental issues. These improvements include but are not limited to roadway and intersection modifications, tree planting, bio retention facilities or stormwater management related water quality and quantity measures necessary to improve the environment, bicycle lane instalation and the construction of sidewalks and paths.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Planning and site Acquisition 2											
TIP ID: 6371 Agency ID:		Title: Planning and site acquisition 2						Complete: 2020		Total Cost:	\$4,500
Facility: Various locations County-wide		Local	0/0/100	200 a	200 a	200 a	200 a			2,000	
From:				300 b	300 b	300 b	300 b				
To:											
Total Funds:										2,000	

Description: This project provides funding for acquiring land for road rights-of-way, reforestation mitigation and wetland banking in developing areas of the County. The demolition of structures on acquired land is also included. It also provides funding for future project planning studies in order to verify need, determine scope and develop preliminary cost estimates.

Transportation Enhancements 2											
TIP ID: 6374 Agency ID:		Title: Transportation Enhancements 2						Complete: 2020		Total Cost:	\$7,366
Facility: Various locations County-wide		Local	0/0/100	100 a	100 a	100 a	100 a			3,760	
From:				1,120 c	1,120 c	1,120 c					
To:											
Total Funds:										3,760	

Description: This project provides funding for nonstandard transportation improvements which are time sensitive. Work may entail, but will not be limited to requirements associated with the Americans with Disabilities Act, bus stop pads, traffic calming devices, landscaping, pedestrian facilities, thermoplastic pavement markings to provide maximum safety and nighttime visibility, spot safety road improvements and installation and repair of guardrail.

Other											
Developer Contribution Projects											
TIP ID: 6024 Agency ID:		Title: Developer Contribution Projects						Complete: 2015		Total Cost:	\$7,168
Facility: Various locations County-wide		PRIV	0/0/0	50 a						3,000	
From:				2,950 c							
To:											
Total Funds:										3,000	

Description: This project provides funding for a variety of street improvements necessitated by new development. These improvements include, but are not limited to, traffic signals, intersection modifications, roadway widening, new construction, resurfacing, landscaping and contributions to a variety of State highway projects.

Maintenance											
ADA Right of Way Modifications											
TIP ID: 6012 Agency ID:		Title: Modification of ADA Rights of Way County-Wide						Complete: 2018		Total Cost:	
Facility: ADA Rights of Way Modifications County-Wi		Local	0/0/100	500 c	500 c					1,000	
From:											
To: Various Locations											
Total Funds:										1,000	

Description: This Prroject will modify existing curb, gutters and sidewalks througout the County to bring the existing infrastructure into compliance with current Americans with Disabilities Act (ADA) design standards.

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

	Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Curb and Road Rehabilitation I & II											
TIP ID: 5609 Agency ID:		Title: Curb and Road rehabilitation II						Complete: 2020		Total Cost: \$73,000	
Facility: various locations		Local	0/0/100	2,000 a	2,000 a	2,000 a	1,000 a			42,000	
From:				10,000 c	8,000 c	8,000 c	9,000 c				
To:										Total Funds: 42,000	

Description: This Project provides funding for rehabilitating County streets, curbs and sidewalks, various safety improvements, installing new sidewalks, construction of sidewalk ramps in accordance with the Americans with Disabilities Act, landscaping, traffic calming improvements, revitalization improvements and the installation of guardrails. The project also includes funding to urbanize and revitalize older subdivisions. An ongoing resurfacing and safety program provides increased vehicular and pedestrian safety remedies to address hazardous conditions and upgrade the appearance of neighborhoods.

Transit											
Bus Mass Transit/Metro Access 2											
TIP ID: 6375 Agency ID:		Title: Bus Mass Transit/ Metro Access 2						Complete: 2020		Total Cost: \$250	
Facility: Various locations County-wide		Local	0/0/100	50 c	50 c	50 c	50 c			200	
From:											
To:										Total Funds: 200	

Description: Funds from this project may be used to purchase buses, construct related capital facilities for both bus and rail activities, roadway improvements and provide pedestrian and vehicular access improvement to metro stations and bus stops.

Safety											
Street Lights and Traffic Signals 2											
TIP ID: 6372 Agency ID:		Title: Street Lights and Traffic Signals 2						Complete: 2020		Total Cost: \$18,750	
Facility: Various locations County-wide		Local	0/0/100	150 a	150 a	150 a	150 a			10,000	
From:				2,350 c	2,350 c	2,350 c	2,350 c				
To:										Total Funds: 10,000	

Description: This project consists of installing traffic control signals and new street lights at various locations throughout the county. The program includes installing new signals, upgrading of existing signals, replacement of aging signals, the Energy Abatement program, installation of traffic surveillance cameras and communications equipment, and the upgrade of existing street lighting on County roadways. This project also provides some funding for the TRIP (traffic Response and Information Partnership) Center.

NORTHERN VIRGINIA

FY 2017-2022 TIP Tables

Preliminary Draft
September 9, 2016



National Capital Region
Transportation Planning Board

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Interstate

Boundary Chanel Drive Modifications

TIP ID: 5965	Agency ID: 104323	Title: Boundary Chanel Drive Modifications	Complete: 2020	Total Cost: \$9,335
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Facility:	AC	0/100/0	5,537	c					5,537
From:									
To:	REVSH	0/50/50	1,458	c					1,458
Total Funds:									6,995

Description: This project involves modifications to the intersection of Boundary Channel Drive and Old Jefferson Davis Highway immediately off of the I-395/Boundary Channel Drive Interchange. The project is part of the County's Long Bridge Park redevelopment initiative which includes the construction of a large regional aquatic Center.

I-495 HOT Lanes- South of GW Pkwy to South of Old Dominion Drive

TIP ID: 6361	Agency ID: 106025	Title: I-495 Northern Section Shoulder Use Debt Service	Complete:	Total Cost:
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Facility: I-495	AC Conversion	100/0/0	1,428	c	1,428	c	1,428	c	1,428	c	5,712
From: South of Old Dominion Drive Overpass											
To: George Washington Memorial Highway											
Total Funds:											5,712

Description: Debt service line item for I-495 Northern Section Shoulder Use. Associated with construction project UPC 105130.

I-66 Multimodal Improvement Project, inside the Beltway

TIP ID: 6513	Agency ID: 108336	Title: I-66 Inside the Beltway Tolling Infrastructure	Complete: 2017	Total Cost: \$30,000
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Facility: I-66	AC	0/100/0	1,000	b	24,000	c				25,000	
From: I-495											
To: Route 29 Near Roslyn, Arlington County											
Total Funds:											25,000

Description: Construct tolling gantries, signage, and related on I-66 inside the Beltway

TIP ID: 6512	Agency ID: 108337	Title: I-66 Inside the Beltway Tolling Systems Integration	Complete: 2017	Total Cost: \$25,000
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Facility: I-66	AC	0/100/0	20,000	c						20,000	
From: I-495											
To: Route 29 Near Roslyn, Arlington County											
Total Funds:											20,000

Description: Design, build, operate, & maintain rush hour tolling systems to manage traffic in I-66 Corridor

I-66 Study / Access Improvements(Outside the Beltway)

TIP ID: 6347	Agency ID: 54911, 105239	Title: I 66 Preliminary Engineering for EIS	Complete: 2017	Total Cost: \$55,656
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Facility: I 66	AC	100/0/0	1,000	a						1,000	
From: I 495											
To: VA 15	AC Conversion	100/0/0	500	a						500	
Total Funds:											1,500

Description: I-66 Study/Preliminary Engineering for EIS

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
I-95 HOT/HOV Lanes Construction									
TIP ID: 6265 Agency ID: 103222 [T1161 Title: I-95 HOV/HOT Lanes Debt Service			Complete:				Total Cost:		\$112,940
Facility: I 95 Interstate 95	AC Conversion 1	100/0/0	7,808 c	7,458 c					15,266
From: Garrisonville Rd.									
To: 1 mi. N. of Edsall Rd.									
Description: Debt service									Total Funds: 15,266

Primary

Route 1 Improvements

TIP ID: 6446 Agency ID: 104303 Title: Route 1 Widening from Featherstone Road to Mary's Way			Complete: 2019				Total Cost:		\$96,391
Facility: US 1 Route 1	AC Conversion	80/20/0		5,185 b					5,185
From: Featherstone Road									
To: Mary's Way									
Description: Widen from a 4 lane undivided highway to a 6 lane divided highway									Total Funds: 5,185

Route 7 (Leesburg Pike) Widening (VA 267 to Reston Ave.)

TIP ID: 6519 Agency ID: 99478 Title: RTE 7 CORRIDOR IMPROVEMENTS HB 2 FY17			Complete: 2022				Total Cost:		\$135,872
Facility: RT 7 Leesburg Pike	AC	0/100/0	17,668 b						17,668
From: Reston Ave									
To: Jarrett Valley Drive	RSTP	20/80/0	9,331 b						9,331
Description: Rt 7 Corridor Improvements to add one travel lane both EB and WB; upgrade intersections; and construct pedestrian and bicycle facilities EB and WB.									Total Funds: 26,999

Rte. 28 Widening

TIP ID: 6298 Agency ID: 96721 Title: Route 28 Widening			Complete: 2017				Total Cost:		\$13,778
Facility: VA 28 Nokesville Rd	AC	80/20/0	488 c	488 c					976
From: Godwin Drive									
To: City Southern Corporate Limits	NVTA-BOND	0/100/0	3,294 c						3,294
	REVSH	50/50/0	2,538 c						2,538
	RSTP	80/20/0	2,908 c						2,908
Description: Widen to six lanes									Total Funds: 9,716

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
US 1, Widen, Reconstruct Interchange, Study									
TIP ID: 6296	Agency ID: 104303	Title: WIDEN ROUTE 1 TO SIX LANES - PE & RW ONLY				Complete:	Total Cost:		\$25,900
Facility: US 1	AC	80/20/0	891 a						891
From: Feathersotne Rd.	RSTP	80/20/0	5,409 a						5,409
To: Mary's Way									Total Funds: 6,300

Description: Reduce congestion and improve safety by increasing capacity and providing multimodal facilities for pedestrians and bicycles.

VA 28 Centreville Road									
TIP ID: 6450	Agency ID: 108720	Title: VA Route 28 Widening (Prince William County Line to Route 29)				Complete: 2020	Total Cost:		\$68,829
Facility: VA 28 Centreville Road	AC	100/0/0	2,072 b						2,072
From: PW County Line	REVSH	0/50/50	4,351 b						4,351
To: Old Centreville Road									Total Funds: 6,423

Description: Widen from 4 to 6 lanes including intersection improvements and pedestrian/bicycle facilities.

VA 28 PPTA, Upgrade, Construct									
TIP ID: 6457	Agency ID: 106652	Title: Route 28 Widening (SB from the Dulles Toll Road to Route 50)				Complete: 2017	Total Cost:		\$20,000
Facility: VA 28 Sully Road	NVTA-BOND	0/100/0	5,215 c						5,215
From: VA 267 Dulles Toll Road									Total Funds: 5,215
To: US 50 Lee Jackson Memorial Highway									
Description: Widening from 3 to 4 lanes									

VA 7									
TIP ID: 6301	Agency ID: 99478	Title: Route 7 - Widen to Six Lanes				Complete:	Total Cost:		\$11,000
Facility: RT 7 Leesburg Pike	RSTP	80/20/0	1,200 b						1,200
From: Reston Ave. (mm 51.5)									Total Funds: 1,200
To: Reston Parkway (mm 52)									

Description: Increase capacity and safety by widening Route 7 to six lanes and correcting existing profile deficiencies. Increase mobility by providing pedestrian and bicycle facilities.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Secondary

Jones Branch Dr. Connector

TIP ID: 6080	Agency ID: 103907	Title: Jones Branch Drive Connector	Complete:	Total Cost:	\$56,000
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Facility: Scotts Crossing Rd	AC Conversion	80/20/0	7,594	c	7,594
From: Dolly Madison Blvd					
To: Jones Branch Dr					
Total Funds:					7,594

Description: The proposed connector is intended to provide a connection between Route 123 and the I-495 Express Lane (HOV/HOT lanes) ramps. By building this connection, the project will connect ROute 123 via the extended Scotts Crossing Rd, ultimately to Jones Branch Dr since the segment between i-495 Express lane (HOV/HOT lanes) ramps and Jones Branch Dr is currently being built as part of the I-495 Express lane (HOV/HOT lanes) project.

Reconstruct and widen Rte. 659 - Belmont Ridge Road

TIP ID: 6447	Agency ID: -16861	Title: Belmont Ridge Road (Route 659), South of the Dulles Greenway	Complete: 2018	Total Cost:	\$19,500
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Facility: VA 659 Belmont Ridge Road	Local	0/0/100	1,080	a	16,963
From: VA 625 Truro Parish Road			1,283	b	
To: VA 645 Croson Road			14,600	c	
	NVTA-BOND	0/100/0	19,500	c	19,500
Total Funds:					36,463

Description: Widen from a substandard 2-lane rural section to a 4-lane arterial standard with the appropriate auxiliary turn lanes and signalization

Rogues Road Reconstruction

TIP ID: 6429	Agency ID: 104300	Title: Rogues Road Reconstruction	Complete: 2020	Total Cost:	\$9,391
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Facility: Rogues Road	STP	80/20/0	1,250	b	1,250
From: Fauquier/Prince William County Line					
To: RT 605					
Total Funds:					1,250

Description: Reconstruction without added capacity. Reconstruct and widen travel lanes and shoulders, improve drainage and safety of road and minimize maintenance.

Rolling Road Widening

TIP ID: 6248	Agency ID: 102905	Title: Rolling Road Widening	Complete:	Total Cost:	\$25,500
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Facility: VA 638 Rolling Road	RSTP	80/20/0	3,500	a	3,500
From: VA 5297 Delong Dr.					
To: VA 4502 Fullerton Rd.					
Total Funds:					3,500

Description: Widen to 4 lanes - total of 1.12 miles
Between Delong Rd. and 0.01 mi N. of Fullerton Rd.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Rte 659 - Belmont Ridge Road Reconstruction to four lanes										
TIP ID: 6335	Agency ID: 76244	Title: VA 659 Reconstruct to 4 Lanes					Complete: 2015	Total Cost:	\$61,031	
Facility: VA 659 Belmont Ridge Rd.	NVTA-BOND	0/100/0	13,805	c					13,805	
From: Va Hay Rd									Total Funds:	13,805
To: VA Gloucester Pkwy										
Description: Reconstruct VA 659 (Belomnt Ridge Rd) to 4 lanes Urban Collector										

Telegraph Road										
TIP ID: 6336	Agency ID: 104802	Title: TELEGRAPH RD - RTE 611- WIDEN TO 4 LANES (PE Only)					Complete:	Total Cost:	\$2,921	
Facility: Telegraph Rd.	State	0/100/0	928	a	1,992	a			2,920	
From: Prince William Parkway									Total Funds:	2,920
To: Minnieville Rd.										
Description: WIDEN TELEGRAPH RD TO 4 LANE DIVIDED SECTION WITH BIKE/PED FACILITIES. Associated with CLRP project numbers 1931 and 1837.										

VA 638 Rolling Road Widening										
TIP ID: 6247	Agency ID: 5559	Title: Rolling Road					Complete: 2019	Total Cost:	\$35,199	
Facility: VA 638 Rolling Road	AC	100/0/0			1,580	c			1,580	
From: VA 286 Fairfax Co. Pkwy (0.369 mi N. of Pkw	REVSH	0/100/0			4,204	c			4,204	
To: VA 644 Old Keene Mill Road	RSTP	80/20/0			3,500	c			3,500	
								Total Funds:	9,284	
Description: Widening to 4 lanes - PE Only										

Urban										
Evergreen Mill Road Widening										
TIP ID: 6256	Agency ID: 104380	Title: Evergreen Mill Road Widening					Complete:	Total Cost:	\$11,300	
Facility: VA 621 Evergreen Mill Road	State/Local	0/98/2	351	a	649	a			1,000	
From: US S. King Street									Total Funds:	1,000
To: City Corp. Limits										
Description: Widening Evergreen Mill Road to 4 Lanes										

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total	
Spring Street										
TIP ID: 6537 Agency ID: 105521		Title: Widen East Spring Street				Complete: 2019		Total Cost: \$6,705		
Facility: Spring Street	AC	100/0/0	2,000 b						2,000	
From: Herndon Parkway	AC 1	96/4/0			4,000 c				4,000	
To: Fairfax County Parkway										
Total Funds:									6,705	

Description: Widen Spring Street from 4 lanes to 6 lanes, FXCO PKWY ramp improvements, intersection improvements, sidewalk

Sycolin Road										
TIP ID: 6203 Agency ID: 102895		Title: Sycolin Road				Complete:		Total Cost: \$13,500		
Facility: Sycolin Road	AC	100/0/0	3,481 c						3,481	
From: Tolbert lane	REVSH	0/50/50			3,500 c				3,500	
To: Leesburg S Corporate Limits	RSTP	80/20/0	2,019 c						2,019	
Total Funds:									9,000	

Description: Widen Sycolin Road from two to four lanes between the above cited limits. This segment is part of a larger project included in the regional air quality conformity analysis (VU33: Widen Sycolin Rd. between VA 7/US 15 Bypass and Leesburg SCL).

Wellington Rd. Overpass Phase III										
TIP ID: 6332 Agency ID: 104374		Title: Wellington rd. Overpass Phase II				Complete:		Total Cost: \$60,000		
Facility: Wellington Rd.	AC	100/0/0	1,000 a						1,000	
From: Dean Drive										
To: Dean Park Dr.										
Total Funds:									1,000	

Description: Improve emergency response times, increase capacity and safety and facilitate pedestrian and bicycle access.
See also CLRP# 1951.



Bridge										
Construction: Bridge Rehabilitation/Replacement/Reconstruction										
TIP ID: 5503 Agency ID: TIPGRP001		Title: Construction: Bridge Rehabilitation/Replacement/Reconstruction				Complete:		Total Cost: \$322,673		
Facility: District-wide Bridges	AC 4	85/15/0	9,714 c		29,818 c				39,532	
From:	BR 1	90/10/0	1,752 c		837 c				2,589	
To:	BR 3	100/0/0			200 a				200	
Total Funds:									42,321	

Description: TIP Grouping project for Construction: Bridge Rehabilitation/Replacement/Reconstruction. See CLRP for the derivation of STIP Grouping and how they are part of the TIP. Individual projects within STIP Group are shown on Appendix A.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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TIP Grouping for Preventive Maintenance for Bridges

TIP ID: 5525	Agency ID: TIPGRP006	Title: TIP Grouping for Preventive Maintenance for Bridges	Complete:	Total Cost:	\$184,481
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Facility: Bridges	STP/E	100/0/0	2,905 c	3,047 c	5,952
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From: NoVA District					Total Funds: 5,952
To:					

Description: TIP Grouping for Preventive Maintenance for Bridges. See CLRP for the derivation of STIP Grouping and how they are part of TIP. See Appendix A for listing of individual STIP Grouped projects.

Enhancement

Colechester Road

TIP ID: 6316	Agency ID: 76256	Title: Colchester Road - RTE 612	Complete:	Total Cost:	\$445,000
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Facility: VA 612 Colchster Road	AC	100/0/0	60 a	60
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From: VA 641 Chapel Road					Total Funds: 60
To: VA 641 0.24 Mile N. W. Of VA 641					

Description: Reconstruct & Pave Gravel Road

TIP Grouping project for Construction: Transportation Enhancement Byway Non-Traditional

TIP ID: 5523	Agency ID: TIPGRP004	Title: TIP Grouping project for Construction: Transportation Enhancement By	Complete:	Total Cost:	\$112,321
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Facility: Transportation Enhancement Byway Non-Tra	AC	80/20/0	496 c	496
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From: NoVA District					
To:	AC Conversion	80/20/0	79 c	79	

	BR	80/20/0	380 c	380
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	CMAQ	80/20/0	559 c	559
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	RSTP	80/20/0	1,000 a 151 b 4,564 c	335 a 6,050
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	State	0/100/0	100 a	50 b 150
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	State/Local	100/0/0	100 a	100
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	STP	80/20/0	1 c	1 c 2
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Total Funds: 7,816				
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Description: TIP Grouping project for Construction: Transportation Enhancement Byway Non-Traditional. See CLRP for the derivation of STIP Grouping and how they are part of the TIP. See Appendix A to see individual projects within this STIP Group.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
ITS									
TIP Grouping project for Maintenance: Traffic and Safety Operations									
TIP ID: 5526 Agency ID: TIPGRP007 Title: TIP Grouping project for Maintenance: Traffic and Safety Operations			Complete:		Total Cost: \$127,389				

Facility: Traffic and Safety Operations	STP 1	100/0/0	4,047 c	4,278 c						8,325
From: NoVA District									Total Funds: 8,325	

To:
Description: TIP Grouping project for Maintenance: Traffic and Safety Operations. See CLRP for the derivation of STIP Grouping and how they are part of TIP. Individual projects within the STIP Group are found in Appendix A.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Other									
TIP Grouping project for Construction: Safety/ITS/Operational Improvements									

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5506 Agency ID: TIPGRP003 Title: TIP Grouping project for Construction: Safety/ITS/Operational Improve			Complete:		Total Cost:		\$832,121		
Facility: Safety/ITS/Operational Projects	AC	95/5/0	507 a	895 a					29,034
From: Districtwide			711 b	1,142 b					
To:			15,070 c	10,709 c					
AC 1	86/14/0		649 a	894 a					1,543
AC 2	83/17/0		1,008 b						1,008
AC 3	85/15/0		189 a						189
AC Conversion	80/20/0		700 a	560 a					1,260
AC Conversion 1	81/19/0		1,209 c	736 c					1,945
BR	80/20/0		769 b						769
CMAQ	75/25/0		107 a	107 a					214
CMAQ 1	81/19/0		11,263 c						11,263
CMAQ 2	74/26/0		108 a	108 a					216
EB/MG	80/20/0		387 b						387
EB/MG 1	81/19/0		840 c	679 c					1,519
EB/MG 2	84/16/0		109 c						109
HSIP	98/2/0		9,379 c	2,044 c					11,423
HSIP 1	52/48/0		96 a						96
HSIP 2	100/0/0		999 b						999
IM	94/6/0		3,581 c						3,581
NHPP	100/0/0		47 c						47
RSTP	80/20/0		2,601 b 2,148 c	7,005 c					11,754
RSTP 1	79/21/0		1,957 a	760 a					2,717
State	0/100/0			300 a					300

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
State/Local	0/50/50			300 a					1,550
				1,250 b					
STP	100/0/0		40 b						2,667
			2,627 c						
STP 1	83/17/0		31 a	542 a					573
STP 3	80/20/0		22,334 c	16,092 c					38,426
STP 6	84/16/0		967 b	2,700 b					3,667
STP 7	98/2/0		835 c						835
STP/E	80/20/0		41 b						41
Total Funds:									128,132

Description: TIP Grouping project for Construction: Safety/ITS/Operational Improvements. See Appendix A for specific projects and UPC information.

Virginia Statewide Vehicle Fuel Conversion Program										
TIP ID: 6041	Agency ID: T11802	Title: Virginia Statewide Vehicle Fuel Conversion Program				Complete:	Total Cost:			
Facility:	AC Conversion	80/20/0	1,227 c	600 c					1,827	
From:										
To:									Total Funds: 1,827	

Description: The project is for implementing the Statewide Vehicle Fuel Conversion Program.

Maintenance										
TIP Grouping project for Preventive Maintenance and System Preservation										
TIP ID: 5524	Agency ID: TIPGRP005	Title: TIP Grouping project for Preventive Maintenance and System Preservati				Complete:	Total Cost: \$341,997			
Facility: Preventive Maintenance and System Preserv	STP	100/0/0	17,265 c	19,132 c					36,397	
From: NoVA District										
To:									Total Funds: 36,397	

Description: This listing covers a number of projects/programs throughout Northern Virginia District. The nature/scope of these projects are Preventive Maintenance and System Preservation. These projects have been determined to be exempt from conformity requirements and are eligible for a Categorical Exclusion (CE) under NEPA and hence may be grouped as per April 9, 2008 MOA between FHWA, FTA, VDOT & VDRPT which was subsequently adopted by the NCR-TPB. Individual projects within the STIP Group are found in Appendix A.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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Transit

CSX RF &P Rail Corridor Third Track

TIP ID: 6402	Agency ID: VRE0018	Title: Phase II - Work related potomac shores station				Complete:	Total Cost:		
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Facility: CSX RF&P Rail Corridor	State/Local	0/50/50	10,000 c	10,800 c	10,000 c				30,800
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From: CF 557 Hamilton Interlocking (HA)

To: CF 1063 Control Point Slaters Lane (CP)

Total Funds: 30,800

Description: Track, Signal and Switch work and second platforms that support capacity expansion, operational flexibility and service expansion for the VRE Potomac Shores Station

Dulles Corridor Metrorail Extension Phase II

TIP ID: 6362	Agency ID:	Title: Route 28 Metrorail Station (Innovation Station)				Complete: 2018	Total Cost: \$83,000		
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Facility: 28 Innovation Station	CMAQ	80/20/0	2,085 c	7,166 c	1,773 c	45 c			11,069
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From: Silver Line at Route 28

To:

Total Funds: 11,069

Description: This metrorail station, part of PH II of the Silver Line extension, is vital to support the increase in development that has been approved. It will include pedestrian and bicycle improvements, bus bays and bus stop improvements, and park-and-ride and kiss-and-ride facilities. There is \$69 million in prior years (FY 2014) NVTA funding allocated to this project.

Dulles Corridor Metrorail Project

TIP ID: 4272	Agency ID: DUL0002	Title: Dulles Corridor Metrorail Project - Phase 2				Complete: 2018	Total Cost: \$2,937,421		
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Facility:	Local	0/0/100	24,699 c	13,175 c					37,874
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From: Wiehle Avenue

To: VA

Total Funds: 37,874

Description: Continue the extension of the Metrorail system for another 11.5 miles to Route 772 in Loudoun County with additional stations at Reston Parkway, Monroe Street (Herndon), VA 28, Dulles Airport and VA 606. Direct access will be provided to Dulles Airport terminal.

Franconia-Springfield Parkway Park-and-Ride Lots

TIP ID: 6281	Agency ID: 106274	Title: Springfield CBD Commuter Parking Garage				Complete:	Total Cost: \$58,236		
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Facility: 644 Old Keene Mill Road	CMAQ	80/20/0		37,789 c					37,789
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From:

To: Local 0/0/100

11,838 c

11,838

Total Funds: 49,626

Description: Springfield CBD Commuter Parking Garage

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
PRTC - Bus Acquisition / Replacement Program									
TIP ID: 4506 Agency ID: PRTC0005 Title: PRTC - Bus Acquisition / Replacement Program			Complete:				Total Cost:		\$10,338
Facility: PRTC - Bus Acquisition	Sect. 5339	80/16/4	10,338 c						10,338
From: NOVA Districtwide									
To:									Total Funds: 10,338
Description: Replacement of sixteen commuter buses manufactured in 2002 that have reached the end of their useful life.									

PRTC - Capital Cost of Contracting									
TIP ID: 5601 Agency ID: PRTC0004 Title: PRTC - Preventive Maintenance			Complete: 2040				Total Cost:		
Facility:	Sect. 5307	80/0/20	1,513 c	1,600 c	1,650 c	1,700 c	1,750 c		8,213
From:									
To:	Sect. 5337-SGR	80/0/20	1,157 c	1,300 c	1,450 c	1,600 c	1,650 c		7,157
	Sect. 5339	80/0/20	161 c	177 c	194 c	213 c	234 c		979
	STP	80/16/4	938 c						938
									Total Funds: 17,287
Description: Maintenance of the Omniride and Omnilink fleet.									

PRTC Security Enhancements									
TIP ID: 5707 Agency ID: PRTC0006 Title: PRTC Security Enhancements			Complete:				Total Cost:		\$846
Facility: PRTC Transit Center	Sect. 5307	80/16/4	15 c	16 c	17 c	17 c	18 c		83
From:									
To:									Total Funds: 83
Description: Ongoing Improves safety and security at the PRTC Transit Center. Grantees must certify that at least 1% of Formula funding received each fiscal year is being used for transit security projects. Projects include cameras, additional lighting, drills, communications systems, facility access, System Safety Security Plan, etc.									

TIP Grouping for Transit Vehicles									
TIP ID: 6331 Agency ID: Title: Transit : Vehicles			Complete:				Total Cost:		\$27,559
Facility:	AC Conversion	85/15/0	1,317 c	8,414 c					9,731
From:									
To:									Total Funds: 9,731
Description:									

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
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TIP Grouping project for Transit Access

TIP ID: 6333	Agency ID:	Title: Transit : Access	Complete:	Total Cost:	\$22,500
Facility:	AC Conversion	80/20/0		5,249 c	5,249
From:					
To:					Total Funds: 5,249
Description:					

TIP Grouping project for Transit Amenities

TIP ID: 6328	Agency ID:	Title: Aminities	Complete:	Total Cost:	\$9,364
Facility:	AC Conversion	90/10/0		958 c	524 c
From:					1,482
To:					Total Funds: 1,482
Description:					

Transit: Ridesharing

TIP ID: 6330	Agency ID:	Title: Transit Ridesharing	Complete:	Total Cost:	\$20,431
Facility:	AC Conversion	85/15/0		4,850 a	4,917 a
From:					9,767
To:					Total Funds: 9,767
Description:					

VRE - Administration / Studies / Training

TIP ID: 4802	Agency ID: VRE0002	Title: Fare Collection System/Comm. Improvements	Complete: 2030	Total Cost:	\$18,728
Facility:	Sect. 5307	80/16/4		1,200 c	1,200
From: Systemwide					
To:					Total Funds: 1,200
Description:	Ongoing maintenance of the fare collection equipment and the next generation of fare equipment. Fare Collection III				

TIP ID: 4277	Agency ID: VRE0003	Title: Security Enhancements Systemwide	Complete: 2040	Total Cost:	\$2,100
Facility:	Sect. 5307	80/16/4		105 c	105 c
From: Systemwide					105 c
To:					Total Funds: 420
Description:	Grantees must certify that at least 1% of 5307 funding received each fiscal year is being used for transit security projects				

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 4489 Agency ID: VRE0008 Title: Grant and Project Management			Complete:				Total Cost:		\$2,450
Facility: System Wide	Sect. 5307	80/20/0	650 a	650 a	650 a	650 a			2,600
From: Northern Virginia									
To:									Total Funds: 2,600
Description: The costs of grants and project management, as well as staff participation in federal grants management seminars, will be capitalized to the grants, reserving operating funds for service provision.									

VRE - Rolling Stock Acquisition									
TIP ID: 4818 Agency ID: VRE0001 Title: Rolling Stock Modifications and Overhauls			Complete:				Total Cost:		\$35,765
Facility:	Sect. 5337-SGR	80/16/4	4,900 c						4,900
From: Systemwide									
To:									Total Funds: 4,900
Description: Technological developments and safety mandates from the Federal Railroad Administration (FRA), may require ongoing improvements to the VRE fleet. Projects that bring VRE into compliance with future federal mandates will be given the highest funding priority. Implementing PTC as required by FRA.									

TIP ID: 4534 Agency ID: VRE0009 Title: Rolling Stock Acquisition			Complete:				Total Cost:		\$58,761
Facility: VRE Rolling Stock	Sect. 5307 2	80/16/4	2,726 c	2,726 c	2,726 c	2,726 c			10,904
From: Systemwide									
To:	Sect. 5337-SGR	80/16/4	3,878 c	3,878 c	3,878 c	3,878 c			15,512
									Total Funds: 26,416
Description: VRE has purchased from Sumitomo 11 cab cars (base order), 50 cab and trailers (option order) and an additional 10 cars. This project includes funding for a new procurement of up to 42 railcars with of base order of eight cars and option orders of seven, five and nine cars.									

VRE - Stations and Facilities									
TIP ID: 6404 Agency ID: Title: VRE Stations and Facilities			Complete:				Total Cost:		
Facility:	AC Conversion	80/15/0	4,923 c						4,923
From:									
To:									Total Funds: 4,923
Description: Additions of 2nd platforms, signage, related improvements at various VRE stations									

TIP ID: 6320 Agency ID: T10671 Title: VRE Rippon Platforms			Complete:				Total Cost:		\$10,890
Facility: US 1	AC	100/0/0	3,034 c						3,034
From: Farm Creek Drive									
To: Rippon Blvd.	AC Conversion	80/20/0		1 c					1
	CMAQ	80/20/0	5,755 c						5,755
									Total Funds: 8,790

Description: Project includes additional funding for environmental review, PE/final design and construction to lengthen the existing platform at the VRE Rippon station from 400 feet to 650 feet and extend the canopy by 100 feet and design and construction of a second, 650 platform, canopy and elevator.

NORTHERN VIRGINIA
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 4310 Agency ID: VRE0011 Title: VRE Stations and Facilities			Complete:				Total Cost:		\$4,612
Facility: VRE Stations and Facilities	Sect. 5337-SGR	80/16/4	3,930 c	946 c	946 c	946 c			6,768
From: Districtwide									
To:									Total Funds: 6,768
Description: Involves the addition of second platforms, canopy and platform extensions, replacement of signage and other related improvements at various VRE stations in order to keep the stations in good repair. This work will be done at various stations including Fredericksburg, Leeland Road, Brooke, Manassas, Manassas Park, Woodbridge, Rippon, Rolling Road, Broad Run, Burke and other stations to be determined.									

VRE - Tracks and Storage Yards

TIP ID: 4070 Agency ID: VRE0007 Title: VRE Storage Yards Improvements			Complete: 2030				Total Cost:		\$44,801	
Facility: VRE Storage Yards	Sect. 5307	62/34/4	5,100 c	4,636 c					9,736	
From: Systemwide										
To:	Sect. 5337-SGR	62/34/4	18,794 c							18,794
								Total Funds: 28,530		
Description: As additional cars are added to accommodate ridership demand, storage yards and maintenance facilities must be obtained and/or upgraded. Improvements to the yards and maintenance facilities will allow additional maintenance to be performed by VRE contractors and additional vehicles to be stored.										

VRE Track Lease Improvements

TIP ID: 5489 Agency ID: VRE0012 Title: VRE Track Lease Improvements			Complete:				Total Cost:		\$229,971
Facility: VRE Track	STP	50/34/16	17,024 c	17,490 c	18,190 c				52,704
From: NoVA and District of Columbia									
To:									Total Funds: 52,704
Description: Provides capitalized access fees in the form of long term and related capital improvements on the railroad systems that VRE operates on, railroad systems owned by Amtrak, CSX, and Norfolk Southern.									

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

FY 2017-2022 TIP Tables

Preliminary Draft
September 9, 2016



National Capital Region
Transportation Planning Board

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Transit									
Maintenance Equipment									
TIP ID: 5861 Agency ID: Title: Maintenance Equipment									
Facility:	Local	0/0/100	802 e	41,428 e	35,820 e	15,805 e			93,855
From:									
To:	Sect. 5307	80/0/20		3,665 e					3,665
	Sect. 5337-SGR	80/0/20		3,627 e	9,512 e	12,224 e			25,363
Total Funds:									122,883

Description: Provides funds for
a. Rail Maintenance Equipment: purchase and/or replacement of equipment to maintain the rail system.
b. Bus Repair Equipment: purchase and/or replacement of repair equipment.
c. Business Facilities Equipment: purchase and/or replacement of equipment that supports the business process of the agency.

Maintenance Facilities									
TIP ID: 5867 Agency ID: Title: Facilities Maintenance Support – Systemwide Support Equipment, Environmental Compl Projects and Adm Support									
Facility:	DHS	100/0/0	871 e						871
From:									
To:	Local	0/0/100	7,631 e	5,792 e	6,651 e	7,830 e			27,904
	Sect. 5307	80/0/20		2,500 e	3,000 e	3,000 e			8,500
Total Funds:									37,275

Description: Provides funds for:
a. Environmental Compliance Projects: facility or equipment upgrades and/or replacements required to comply with environmental regulatory requirements or directives.
b. Maintenance Bus & Rail Facilities: upgrades, rehabilitation, and/or replacements of systemwide support equipment, financial planning and project administration, to include a new test track, railcar commissioning facility and New Carrollton Yard capacity improvements.

TIP ID: 5866 Agency ID: Title: Rail Yards - Systemwide Maintenance, Expansion, Rehabilitation and Replacement									
Facility:	Local	0/0/100	4,924 e						4,924
From:									
To:	PRIIA	50/0/50	24,076 e	13,231 e					37,307
Total Funds:									42,231

Description: Provides funds for
a. Maintenance of Rail Yards: maintenance and/or rehabilitation of rail maintenance yards.
b. Rail Maintenance Facilities: construction and/or replacement of rail maintenance facilities.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source		Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
TIP ID: 5857 Agency ID:		Title: Bus Garages - Systemwide Maintenance, Expansion, Rehabilitation, and Replacement								
Facility:	Local	0/0/100		1,455 e	18,852 e	11,469 e	8,000 e			39,776
From:										
To:	Sect. 5307	80/0/20		27,470 e	19,189 e	13,032 e	8,500 e			68,190
	WIP	0/0/100		26,871 e						26,871
Total Funds:										134,837

Description: Provides funds for:

- a. Rehabilitation and Replacement of Bus Garages: upgrades, rehabilitation, and/or replacement of bus garages and maintenance facilities, including the rehabilitation of the Bladensburg bus facility and the replacement of the Southern Avenue, Royal Street (Cinder Bed Road), Shepard Parkway bus garages.
- b. Maintenance of Bus Garages: maintenance of bus garages/maintenance facilities.
- c. Expansion of Bus Garages: expansion of bus garages to meet storage and maintenance needs of growing fleet.

Other Facilities

TIP ID: 5862 Agency ID:		Title: Other Support Facilities								
Facility:	Local	0/0/100		2,564 e	15,430 e	3,284 e	6,100 e			27,378
From:										
To:	Sect. 5307	80/0/20			1,733 e	5,000 e				6,733
	Sect. 5337-SGR	80/0/20				2,555 e				2,555
Total Funds:										36,665

Description: Provides funds for:

- a. Business Support Facilities: facilities that support business operations functions.
- b. Metro Transit Police Department (MTPD) Support Facilities Rehabilitation: upgrade and rehabilitation of MTPD facilities.
- c. MTPD Support Facilities Expansion: expansion of MTPD to meet new ridership and facility demands, to include the new District 2, police training facility, and special operations division facility.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Passenger Facilities									
TIP ID: 5860 Agency ID: Title: Passenger Facilities									
Facility:	Local	0/0/100	25,448 e	5,129 e	2,715 e	2,992 e			36,284
From:	PRIIA	50/0/50	43,934 e	23,021 e	32,438 e	36,696 e			136,089
To:	Sect. 5307	80/0/20		6,231 e	2,741 e	4,643 e			13,614
	Sect. 5337-SGR	80/0/20	11,647 e	91,951 e	91,065 e	64,644 e			259,306
	WIP	0/0/100	6,761 e						6,761
Total Funds:									452,054

Description: Provides funds for

- a. Elevator/ Escalator Facilities: rehabilitation of elevator and escalators and expansion of elevator capacity.
- b. Maintenance of Rail Station Facilities: upgrade, rehabilitation, and/or replacement of station area components.
- c. Bicycle/ Pedestrian Facilities: rehabilitation, replacement and expansion of bicycle and pedestrian facilities.
- d. Rail Station Capacity/ Enhancements: expand the capacity of rail stations, improve passenger access, and protect exposed assets.
- e. Bus Priority Corridor Improvements: bus stops, runningway enhancements, street operations management and safety strategies to produce more reliable bus.
- f. Rail Station Equipment: purchase of equipment to be used in rail stations, including police emergency management equipment and other related.

Project Management and Support									
TIP ID: 5863 Agency ID: Title: Credit Facility									
Facility:	Local	0/0/100	6,104 e	3,500 e	2,500 e	2,500 e			14,604
From:	Sect. 5307	80/0/20			1,500 e				1,500
To:	Sect. 5339	80/0/20				1,500 e			1,500
Total Funds:									17,604

Description: Provides funds to maintain a line of credit to meet cash flow needs.

Rail System Infrastructure Rehabilitation									
TIP ID: 5856 Agency ID: Title: Rail Line Segment Rehabilitation									
Facility:	Local	0/0/100	8,812 e						8,812
From:	PRIIA	50/0/50	50,002 e	40,582 e	45,722 e	64,632 e			200,938
To:	Sect. 5337-SGR	80/0/20	29,005 e	9,000 e	4,873 e				42,878
	Section 5324	75/0/25	9,500 e	3,752 e					13,252
Total Funds:									265,879

Description: Provides funds for rehabilitation of segments of Metrorail system, particularly the Red, Orange and Blue lines.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Systems and Technology									
TIP ID: 5858 Agency ID: Title: Systems and Technology									
Facility:	Local	0/0/100	50,317 e	69,312 e	58,602 e	61,300 e			239,531
From:	PRIIA	50/0/50	2,445 e						2,445
To:	Sect. 5307	80/0/20			2,846 e	10,691 e			13,537
	Sect. 5333(b)	80/0/20		6,872 e					6,872
	Sect. 5337-SGR	80/0/20	1,521 e		38,035 e	23,784 e			63,340
	WIP	0/0/100	14,750 e						14,750
Total Funds:									340,474

Description: Provides funds for
a. Rail Power Systems: upgrade of rail system's power supply.
b. Operations Support Software: purchase and/or replacement of software that supports the transit system.
c. Business Support Software & Equipment: purchase and/or replacement of software and equipment that supports the agency's mission.
d. Rail Fare Equipment: purchase and/or replacement of fare equipment for the transit system.

Track & Structures									
TIP ID: 5859 Agency ID: Title: Track and Structures									
Facility:	Local	0/0/100	7,799 e		64 e				7,863
From:	PRIIA	50/0/50	52,194 e	50,628 e	63,402 e	56,798 e			223,022
To:	Sect. 5307	80/0/20	10,000 e						10,000
	Sect. 5337-SGR	80/0/20	31,870 e	28,491 e	18,138 e	28,513 e			107,011
Total Funds:									347,896

Description: Provides funds for:
a. Track Rehabilitation: maintain and rehabilitate track and track infrastructure including aerial structures.
b. Station/Tunnel Rehabilitation: repair of water leaks in stations, vent shafts, air ducts, tunnels, tunnel liners, and other areas in the system.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
TRANSPORTATION IMPROVEMENT PROGRAM
CAPITAL COSTS (in \$1,000)

Source	Fed/St/Loc	Previous Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Source Total
Vehicles/ Vehicle Parts									
TIP ID: 5855 Agency ID: Title: MetroAccess and Service Vehicles									
Facility:	Local	0/0/100				24,319 e			24,319
From:									
To:	Sect. 5307	80/0/20	10,941 e	22,907 e			25,119 e		58,967
	WIP	100/0/0	10,000 e						10,000
Total Funds:									93,286

Description: Provides funds for
a. MetroAccess Vehicles: purchase/ replacement of Metro Access vehicles.
b. Replacement of Service Vehicles: purchase/ replacement of vehicles that will be used Authority-wide for service activities.

TIP ID: 5854 Agency ID: Title: Buses - Replacement, Rehabilitation, Expansion, & Enhancements									
Facility:	CMAQ	80/0/20	808 e	6,911 e	7,399 e	4,500 e			19,618
From:									
To:	Local	0/0/100	900 e	1,728 e	5,211 e	38,483 e			46,321
	Sect. 5307	80/0/20	135,326 e	124,866 e	156,046 e	132,212 e			548,450
	Sect. 5337-SGR	80/0/20		4,283 e	4,283 e	4,283 e			12,849
	Sect. 5339	80/0/20	10,549 e	12,199 e	12,199 e	10,699 e			45,645
Total Funds:									672,883

Description: Provides funds for
a. Replacement of Buses: replacement of the bus fleet.
b. Rehabilitation of Buses: mid-life rehabilitation of the bus fleet.
c. Bus Enhancements: purchase and/or replacement of equipment that upgrades or enhances the capability of the bus fleet.
d. Bus Fleet Expansion: expansion of the bus fleet to meet ridership growth.

TIP ID: 5853 Agency ID: Title: Rail Cars - Replacement, Rehabilitation, Expansion, & Enhancements									
Facility:	Local	0/0/100	5,380 e						5,380
From:									
To:	PRIIA	50/0/50	124,349 e	172,539 e	158,438 e	141,875 e			597,200
	Sect. 5337-SGR	80/0/20	110,000 e	25,663 e	1,426 e	36,439 e			173,529
Total Funds:									776,109

Description: Provides funds for:
a. Replacement of Rail Cars: replacement of the rail fleet, including the 1000-Series and 4000-Series rail cars.
b. Rehabilitation of Rail Cars: mid-life rehabilitation of rail fleet.
c. Rail Fleet Expansion: expansion of the rail fleet to meet ridership growth.
d. Rail Enhancements: enhancements to the rail fleet that improve safety, reliability, and passenger comfort.

FY 2017-2022 TIP

Regional Financial Summary

Preliminary Draft
September 9, 2016



National Capital Region
Transportation Planning Board

**Table 5A
METROPOLITAN WASHINGTON REGION
FY 2017-2022 TRANSPORTATION IMPROVEMENT PROGRAM
Financial Summary by Funding Source (in \$ Millions)**

Source	2017		2018		2018-2020		2021-2022		2017-2022
	Federal	Total	Federal	Total	Federal	Total	Federal	Total	
Title I - FHWA									
Bridge Replacement and Rehabilitation Program	8.42	9.99	2.43	2.89	3.04	4.05			16.93
Congestion Mitigation and Air Quality Improvement Program	31.31	38.40	16.22	19.71	26.04	31.83	2.52	2.52	92.47
Demonstration	0.24	0.30							0.30
Earmark	4.14	4.14							4.14
Equity Balance/Minimum Guarantee	1.08	1.34	0.55	0.68					2.02
High Priority Project	4.77	4.77	13.93	13.93	7.11	7.11			25.81
Highway Research and Development Program	0.07	0.14							0.14
Interstate Maintenance	3.37	3.58							3.58
National Highway Performance Program	219.04	249.13	218.97	249.84	483.40	540.38	110.39	110.39	1,149.75
Regional Surface Transportation Planning	14.82	18.55	16.40	20.51					39.06
Safe Routes to School Program	1.15	1.15	1.15	1.15	2.30	2.30			4.60
State Planning & Research Program	5.20	6.50	5.60	7.00	10.80	13.50			27.00
Surface Transportation Program	190.24	224.49	134.66	158.96	181.37	214.10	65.47	65.47	663.01
Enhancements (STP)	7.44	7.45	7.51	7.51	9.18	9.18	35.14	35.14	59.27
Highway Safety Improvement Program (STP)	27.69	29.62	11.45	12.19	19.89	21.30	8.40	8.40	71.52
Transportation Alternatives Program	0.92	1.15	0.92	1.15	1.84	2.30			4.60
Transportation and Community and System Preservation	0.84	0.84	0.10	0.10					0.93
Title I - FHWA Total:	520.73	601.53	429.89	495.62	744.96	846.05	221.92	221.92	2,165.12
Title III - FTA									
5303 - Planning Program	0.33	0.42	0.33	0.42	0.66	0.83			1.66
5304 - State & Planning Research Program	0.09	0.11	0.09	0.11	0.18	0.22			0.44
5307 - Urbanized Area Formula Program	174.59	222.14	185.24	232.86	321.14	396.88		1.768	853.64
5309 - New Starts	116.00	116.00	116.00	116.00	232.00	232.00			464.00
5310 - Elderly and Persons with Disabilities Program	3.31	3.48	2.83	2.83	5.66	5.66			11.98
5311 - Non-urbanized Area Formula Program	0.74	1.44	0.74	1.44					2.89
5333(b) - Labor Protection Certifications			5.50	6.87					6.87
Resiliency Grant	7.13	9.50	2.81	3.75					13.25
5339 - Alternatives Analysis Funding	10.01	12.51	11.34	14.18	19.84	24.80		0.23	51.72
Passenger Rail Investment and Improvement Act of 2008	148.50	297.00	150.00	300.00	300.00	600.00			1,197.00
State of Good Repair Grant Funds	187.04	238.03	153.36	191.70	281.98	352.47		1.65	783.86
WMATA Insurance Proceeds	10.00	58.38							58.38
Title III - FTA Total:	657.73	959.02	628.25	870.16	1,161.46	1,612.87		3.65	3,445.69
State/Local									
Grant Anticipation Revenue Vehicles (Bonds)	38.95	48.69	67.42	84.27		76.33			209.29
Local		342.69		354.11		677.04		2.65	1,376.48
Northern Virginia Transportation Authority; Bond Financing		41.81							41.81
State or District Funding		304.46		322.01		619.10		135.16	1,380.72
State/Local	0.10	12.28		14.85		11.22			38.35
State/Local Total:	39.05	749.93	67.42	775.23		1,383.69		137.80	3,046.65
Other									
Advanced Construction	32.11	34.87	51.36	57.03					91.90
Advanced Construction Conversion	26.96	30.87	26.43	29.79	2.86	2.86			63.51
Department of Homeland Security	0.87	0.87							0.87
DOD - Office of Economic Development	10.43	10.43	7.92	7.92	6.20	6.20	1.77	1.77	26.32
GSA Earmark	25.14	31.42	19.84	24.80					56.22
National Park Service	0.062	0.062							0.06
National Recreational Trails Funding Program	0.65	0.71	0.24	0.30	0.48	0.60			1.61
Private Developer		6.20		2.10					8.30
Public Lands	8.49	8.49							8.49
Public-Private Partnership		17.33		17.33		34.66			69.32
Revenue Sharing	1.27	2.54		12.06					7.00
	105.98	143.79	105.79	151.32	9.54	44.32	1.77	1.77	341.20
	1,323.49	2,454.26	1,231.34	2,292.33	1,915.96	3,886.93	223.69	365.14	8,998.66

**Table 5B
METROPOLITAN WASHINGTON REGION
FY 2015-2020 TRANSPORTATION IMPROVEMENT PROGRAM
Financial Summary (in \$Millions)**

Project Type	2015		2016		2017-2018		2019-2020		2015-2020	
	Federal	Total	Federal	Total	Federal	Total	Federal	Total	Federal	Total
Interstate	27.97	45.14	44.96	115.64	125.18	315.38	28.70	56.32	226.81	532.48
Primary	135.70	239.48	176.15	252.09	227.69	338.68		19.93	539.54	850.18
Secondary	47.17	167.45	16.09	89.47	25.46	239.13	1.77	46.21	90.48	542.25
Urban	4.62	5.37	7.32	11.63					11.94	17.00
Bridge	41.80	51.21	32.75	39.20	21.40	30.25			95.94	120.67
Federal Lands Highway Program										
Surface Transportation:	257.25	508.65	277.27	508.03	399.73	923.43	30.47	122.47	964.71	2,062.58
Transit:	675.53	1,283.20	679.42	1,279.01	1,203.77	2,282.78	2.92	3.65	2,561.64	4,848.65
Bike/Ped:	14.91	58.88	4.99	51.98	13.45	99.61	0.00	2.65	33.34	213.11
CMAQ										
Enhancement	6.80	19.42	1.25	7.68	1.84	6.02			9.89	33.12
Freight	4.19	6.49	0.36	1.65	0.68	0.85			5.23	8.99
ITS	17.14	23.66	13.16	18.63	17.61	28.51			47.91	70.80
Human Service Transportation Coordination	2.83	2.83	2.83	2.83	5.66	5.66			11.33	11.33
Maintenance	103.67	155.93	75.56	117.78	68.96	136.41			248.19	410.12
Other	240.60	389.05	175.95	298.35	264.63	391.35	193.22	232.72	874.41	1,311.47
Safety		2.50		2.50		5.00				10.00
TERMs	0.56	3.64	0.56	3.90	1.12	7.73		3.65	2.24	18.91
CMAQ, TERMs, Enhancements, ITS, and Other:	375.80	603.52	269.67	453.32	360.51	581.52	193.22	236.37	1,199.20	1,874.74
Total Funds:	1,323.49	2,454.26	1,231.34	2,292.33	1,977.45	3,887.35	226.61	365.14	4,758.89	8,999.08