

Environmental/Safety

State Safety Oversight

TIP ID 90-1401-39 Year of Operation Ongoing

Agency Office of the Secretary Project Type Other

Project Category Environmental/Safety Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) N/A **Est. Total Cost** \$2,400,000

Description:

The Maryland Department of Transportation (MDOT) intends to use these Section 5329 Funds to provide administrative expenses for training, consultant services and miscellaneous equipment to oversee MTA's Light Rail and Metro systems and its operations in the Baltimore, Maryland metropolitan area.

Justification:

To make transit safer through policy development, hazard investigation, data collection, risk analysis, effective oversight programs and information sharing.

7852

Connection to Long-Range Transportation Planning Goals:

1.B Improve System Safety -- Apply safety-related management and operations techniques.

1.D Improve System Safety -- Improve emergency response time.

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Office of the Secretary

2020 - 2023 Transportation Improvement Program

State Safety Oversight

(Funding in Thousands)

Section 5329 (State Safety Oversight)

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$400	\$200	\$400	\$200	\$400	\$200	\$400	\$200	\$2,400
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$400	\$200	\$400	\$200	\$400	\$200	\$400	\$200	\$2,400
			1						
Total	\$400	\$200	\$400	\$200	\$400	\$200	\$400	\$200	\$2,400

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Baltimore-Washington Superconducting Maglev (SCMAGLEV) Project

TIP ID 90-1901-99 Year of Operation NA

Agency Office of the Secretary Project Type Miscellaneous

Project Category Miscellaneous Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) TSO-5 **Est. Total Cost** \$17,380,000

Description:

Baltimore-Washington Rapid Rail (BWRR), a private company based in Maryland, is proposing to construct an SCMAGLEV train system between Baltimore, Maryland and Washington, DC with an intermediate stop at BWI Marshall Airport. An Environmental Impact Statement (EIS) is being prepared to evaluate the potential impacts of the construction and operation of such a system.

This phase of the project is being funded by a grant from the Federal Railroad Administration with matching funds provided by BWRR. This project is represented in both the Baltimore Regional Transportation Board (BRTB) (50%) and National Capital Region Transportation Planning Board (TPB) (50%) TIPs.

Justification:

Over the next 30 years, population in the Baltimore-Washington region is expected to grow by 30 percent, significantly increasing demand on roadways and railways between the two cities. The purpose of BWRR's proposed action is to increase capacity, reduce travel time, and improve both reliability and mobility options between Baltimore and Washington, with possible future extensions to New York City.

Connection to Long-Range Transportation Planning Goals:

4.C Increase Mobility -- Expand transit service coverage / hours of operation.

5.A Conserve and Enhance the Environment -- Provide alternatives to single-occupant passenger vehicles / apply emission reduction technologies.

7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.

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Office of the Secretary

2020 - 2023 Transportation Improvement Program

Miscellaneous

Baltimore-Washington Superconducting Maglev (SCMAGLEV) Project

(Funding in Thousands)

Federal Railroad Administration

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$13,900	\$3,480	\$0	\$0	\$0	\$0	\$0	\$0	\$17,380
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$13,900	\$3,480	\$0	\$0	\$0	\$0	\$0	\$0	\$17,380
			1						
Total	\$13,900	\$3,480	\$0	\$0	\$0	\$0	\$0	\$0	\$17,380

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Port of Baltimore Enhancements

TIP ID 92-1401-83 **Year of Operation** 2018

Agency Office of the Secretary Project Type Facility expansion

Project Category Ports Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) MPA-9 **Est. Total Cost** \$58,890,000

Description:

MPA's TIGER project has three portions: provide rail access to Fairfield Marine Terminal; widening and straightening the navigation channel to Seagirt Marine Terminal; and filling the Fairfield Basin to develop seven acres of new land for cargo storage.

Justification:

The current access channel to Seagirt is deep enough; however, it has several turns and is too narrow for the next generation of container ships that are able to transit the Panama Canal. The suitable material dredged from this widening will be used as fill in the WWII-era shipbuilding basin to create new land needed for cargo storage (and cost avoidance to replace dilapidated bulkheads). Rail access to Fairfield will allow more efficient cargo movement.

Connection to Long-Range Transportation Planning Goals:

7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.

7.F Promote Prosperity and Economic Opportunity -- Provide context-sensitive infrastructure and facilities.



Office of the Secretary

2020 - 2023 Transportation Improvement Program

Ports

Port of Baltimore Enhancements

(Funding in Thousands)

Transportation Investment Generating Economic Recovery

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$1,074	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,074
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$1,074	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,074
Total	\$1,074	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,074

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Areawide Transportation Alternatives Projects

TIP ID 60-9903-29 Year of Operation Ongoing

Agency SHA - Regional Project Type Other

Project Category Enhancement Program Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) N/A Est. Total Cost \$36,800,000

Description:

This is an ongoing program to expand travel choices and enhance the transportation experience by improving the cultural, historic, and environmental aspects of our transportation infrastructure. These projects may include but are not limited to pedestrian/bicycle facilities; rehabilitation of historic transportation facilities, including railroad facilities and canals; conversion and use of abandoned railway corridors; archeological activities related to transportation impacts; and mitigation of water pollution due to highway runoff. This program also includes Safe Routes to School projects.

Justification:

Transportation enhancements are projects which add community and environmental value to the transportation system.

Connection to Long-Range Transportation Planning Goals:

- 1.E Improve System Safety -- Improve safety conditions for pedestrians and bicyclists.
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 3.A Improve Accessibility -- Increase transportation alternatives for all segments of the population.
- 5.E Conserve and Enhance the Environment -- Preserve and protect natural and cultural resources.

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Areawide Transportation Alternatives Projects

(Funding in Thousands)

Transportation Alternatives (Transportation Enhancement, Safe Routes to School)

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$32,000
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$640	\$160	\$640	\$160	\$480	\$120	\$480	\$120	\$2,800
PL	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$7,440	\$1,860	\$7,440	\$1,860	\$7,280	\$1,820	\$7,280	\$1,820	\$36,800
			1						
Total	\$7,440	\$1,860	\$7,440	\$1,860	\$7,280	\$1,820	\$7,280	\$1,820	\$36,800

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Environmental/Safety

Areawide Environmental Projects

TIP ID 60-9506-38 Year of Operation Ongoing

Agency SHA - Regional Project Type Environmental other

Project Category Environmental/Safety Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) A-20 **Est. Total Cost** \$170,800,000

Description:

This is an ongoing program to provide environmental and aesthetic improvements on State highways. These are non-capacity improvements which include, but are not limited to, projects dealing with noise abatement, wetlands, reforestation, landscape planting, scenic beautification, and pedestrian or bicycle facilities. This program also includes National Recreational Trails projects.

Justification:

Will restore important wetlands, enhance the surrounding environment and community, and reduce noise impacts.

Connection to Long-Range Transportation Planning Goals:

2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.

5.E Conserve and Enhance the Environment -- Preserve and protect natural and cultural resources.

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SHA - Regional

2020 - 2023 Transportation Improvement Program

Environmental/Safety

Areawide Environmental Projects

(Funding in Thousands)

Highway Safety Improvement Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$640	\$160	\$640	\$160	\$640	\$160	\$640	\$160	\$3,200
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
PL	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
ROW	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
Subtotal	\$880	\$220	\$880	\$220	\$880	\$220	\$880	\$220	\$4,400

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SHA - Regional

2020 - 2023 Transportation Improvement Program

Areawide Environmental Projects

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$3,200	\$800	\$3,200	\$800	\$3,200	\$800	\$3,200	\$800	\$16,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
PL	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$3,520	\$880	\$3,520	\$880	\$3,520	\$880	\$3,520	\$880	\$17,600

Recreational Trails Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
PL	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$480	\$120	\$480	\$120	\$480	\$120	\$480	\$120	\$2,400

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Areawide Environmental Projects

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$36,000	\$9,000	\$36,000	\$9,000	\$20,000	\$5,000	\$20,000	\$5,000	\$140,000
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
PL	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
ROW	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
Subtotal	\$37,280	\$9,320	\$37,280	\$9,320	\$21,280	\$5,320	\$21,280	\$5,320	\$146,400
Total	\$42,160	\$10,540	\$42,160	\$10,540	\$26,160	\$6,540	\$26,160	\$6,540	\$170,800

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Emission Reduction Strategy

Areawide Congestion Management

TIP ID 60-9504-04 Year of Operation Ongoing

Agency SHA - Regional Project Type Traffic engineering

Project Category Emission Reduction Strategy Functional Class Varies

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) A-21 **Est. Total Cost** \$93,800,000

Description:

This is an ongoing program to provide traffic control, management, and monitoring on State highways. These improvements may include but are not limited to the employment of variable message signs, video for traffic management (CCTV), traffic management detectors, signal systemization and remote timing, permanent congestion monitoring systems employed by the CHART program, deployment of local jurisdiction intelligent transportation system (ITS) projects, and the development of park-and-ride facilities.

This project also includes a program that replaces older drayage trucks serving the Port of Baltimore with newer trucks that meet or exceed 2007 EPA emissions certified engine standards.

Justification:

These projects together provide an important air quality component of reducing emissions from motor vehicles in the Baltimore region. Most of these projects will improve safety and traffic flow operations on the existing highway system without major new construction. They will save motorists time by allowing them to avoid traffic congestion. Some of the projects will reduce congestion through the use of ITS technology innovations in communication, advanced traffic management, traveler information, etc.

Connection to Long-Range Transportation Planning Goals:

4.A Increase Mobility -- Provide techniques or alternatives as part of a Congestion Management Process (CMP).

5.C Conserve and Enhance the Environment -- Provide incentives for zero-emission vehicles.

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Emission Reduction Strategy

Areawide Congestion Management

(Funding in Thousands)

Congestion Mitigation and Air Quality

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$1,440	\$360	\$1,440	\$360	\$1,440	\$360	\$1,440	\$360	\$7,200
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
PL	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$1,840	\$460	\$1,840	\$460	\$1,840	\$460	\$1,840	\$460	\$9,200

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
OTH	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$8,000
ENG	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
PL	\$800	\$200	\$800	\$200	\$640	\$160	\$640	\$160	\$3,600
ROW	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
Subtotal	\$3,320	\$830	\$3,320	\$830	\$3,160	\$790	\$3,160	\$790	\$16,200

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SHA - Regional

2020 - 2023 Transportation Improvement Program

Emission Reduction Strategy

Areawide Congestion Management

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
отн	\$8,000	\$2,000	\$8,000	\$2,000	\$8,000	\$2,000	\$8,000	\$2,000	\$40,000
ENG	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
PL	\$800	\$200	\$800	\$200	\$800	\$200	\$800	\$200	\$4,000
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$13,680	\$3,420	\$13,680	\$3,420	\$13,680	\$3,420	\$13,680	\$3,420	\$68,400
Total	\$18,840	\$4,710	\$18,840	\$4,710	\$18,680	\$4,670	\$18,680	\$4,670	\$93,800

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Highway Preservation

National Highway System

Areawide Bridge Replacement And Rehabilitation

TIP ID 60-9310-13 Year of Operation Ongoing

Agency SHA - Regional Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) A-20 Est. Total Cost \$148,400,000

Description:

This is an ongoing program to provide major upgrades and maintenance of structures on State highways. These are non-capacity improvements which may include but are not limited to structural replacements, deck rehabilitation, superstructure replacements, parapet reconstruction, cleaning and painting, and general maintenance on various state-owned bridges.

Justification:

Will preserve existing structures, increase safety, and improve highway beautification.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).



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Highway Preservation

National Highway System

Areawide Bridge Replacement And Rehabilitation

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$16,000	\$4,000	\$16,000	\$4,000	\$12,000	\$3,000	\$12,000	\$3,000	\$70,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$960	\$240	\$960	\$240	\$960	\$240	\$960	\$240	\$4,800
PL	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
ROW	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
Subtotal	\$17,600	\$4,400	\$17,600	\$4,400	\$13,600	\$3,400	\$13,600	\$3,400	\$78,000

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Highway Preservation

National Highway System

Areawide Bridge Replacement And Rehabilitation

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$32,000
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$32,000
PL	\$640	\$160	\$640	\$160	\$640	\$160	\$640	\$160	\$3,200
ROW	\$640	\$160	\$640	\$160	\$640	\$160	\$640	\$160	\$3,200
Subtotal	\$14,080	\$3,520	\$14,080	\$3,520	\$14,080	\$3,520	\$14,080	\$3,520	\$70,400
			1						
Total	\$31,680	\$7,920	\$31,680	\$7,920	\$27,680	\$6,920	\$27,680	\$6,920	\$148,400

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Highway Preservation

National Highway System

Areawide Resurfacing And Rehabilitation

TIP ID 60-9501-11 Year of Operation Ongoing

Agency SHA - Regional Project Type Road resurfacing/rehabilitation

Project Category Highway Preservation Functional Class Varies

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) A-20 **Est. Total Cost** \$417,200,000

Description:

This is an ongoing program to provide periodic resurfacing and upgrading of auxiliary features on State highways. These are non-capacity improvements which may include but are not limited to milling, patching, sealing, and resurfacing of existing deteriorated state roadways. Other improvements such as ADA or guardrail may be included incidental to other resurfacing and rehabilitation improvements.

Justification:

Will improve safety and the flow of traffic. This project listing represents a large funding request for many small resurfacing projects throughout the Baltimore region. Project selection is based upon need and is subject to change.

Cc: Jadon

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

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SHA - Regional

2020 - 2023 Transportation Improvement Program

Highway Preservation

National Highway System

Areawide Resurfacing And Rehabilitation

(Funding in Thousands)

Highway Safety Improvement Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$6,000	\$1,500	\$6,000	\$1,500	\$6,000	\$1,500	\$6,000	\$1,500	\$30,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
PL	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$32,000

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Highway Preservation

National Highway System

Areawide Resurfacing And Rehabilitation

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$46,400	\$11,600	\$46,400	\$11,600	\$36,000	\$9,000	\$36,000	\$9,000	\$206,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$1,040	\$260	\$1,040	\$260	\$1,040	\$260	\$1,040	\$260	\$5,200
PL	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
Subtotal	\$48,240	\$12,060	\$48,240	\$12,060	\$37,840	\$9,460	\$37,840	\$9,460	\$215,200

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$36,000	\$9,000	\$36,000	\$9,000	\$28,000	\$7,000	\$28,000	\$7,000	\$160,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$1,200	\$300	\$6,000
PL	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
Subtotal	\$38,000	\$9,500	\$38,000	\$9,500	\$30,000	\$7,500	\$30,000	\$7,500	\$170,000
Total	\$92,640	\$23,160	\$92,640	\$23,160	\$74,240	\$18,560	\$74,240	\$18,560	\$417,200

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Highway Preservation

National Highway System

Areawide Safety And Spot Improvements

TIP ID 60-9508-19 Year of Operation Ongoing

Agency SHA - Regional Project Type Other

Project Category Highway Preservation Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) A-20 **Est. Total Cost** \$239,600,000

Description:

This is an ongoing program to provide localized improvements to address safety and/or operational issues on State highways. These are highway improvements which may include but are not limited to projects dealing with bypass lanes, acceleration and deceleration lanes, turn lanes, rail crossings, intersection realignment, geometric improvements, safety improvements including bridge, bicycle, and pedestrian safety improvements, pavement markers, ADA improvements, guardrails, and roundabouts. Other improvements such as slope repairs, drainage improvements, and joint sealing may be included incidental to other safety improvements.

Justification:

Will improve safety and the flow of traffic, thereby reducing fatalities, injuries, congestion, and queuing.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 3.B Improve Accessibility -- Improve ADA-related conditions for pedestrians / transit riders.

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SHA - Regional

2020 - 2023 Transportation Improvement Program

Highway Preservation

National Highway System

Areawide Safety And Spot Improvements

(Funding in Thousands)

Congestion Mitigation and Air Quality

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$2,400	\$600	\$12,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
PL	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
ROW	\$80	\$20	\$80	\$20	\$80	\$20	\$80	\$20	\$400
Subtotal	\$2,720	\$680	\$2,720	\$680	\$2,720	\$680	\$2,720	\$680	\$13,600

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Highway Preservation

National Highway System

Areawide Safety And Spot Improvements

(Funding in Thousands)

Highway Safety Improvement Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$6,400	\$1,600	\$32,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$480	\$120	\$480	\$120	\$480	\$120	\$480	\$120	\$2,400
PL	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
Subtotal	\$7,520	\$1,880	\$7,520	\$1,880	\$7,520	\$1,880	\$7,520	\$1,880	\$37,600

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$16,000	\$4,000	\$16,000	\$4,000	\$16,000	\$4,000	\$16,000	\$4,000	\$80,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$480	\$120	\$480	\$120	\$480	\$120	\$480	\$120	\$2,400
PL	\$240	\$60	\$240	\$60	\$240	\$60	\$240	\$60	\$1,200
ROW	\$960	\$240	\$960	\$240	\$960	\$240	\$960	\$240	\$4,800
Subtotal	\$17,680	\$4,420	\$17,680	\$4,420	\$17,680	\$4,420	\$17,680	\$4,420	\$88,400

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Highway Preservation

National Highway System

Areawide Safety And Spot Improvements

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$17,600	\$4,400	\$16,000	\$4,000	\$16,000	\$4,000	\$16,000	\$4,000	\$82,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$8,000
PL	\$400	\$100	\$400	\$100	\$400	\$100	\$400	\$100	\$2,000
ROW	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$1,600	\$400	\$8,000
Subtotal	\$21,200	\$5,300	\$19,600	\$4,900	\$19,600	\$4,900	\$19,600	\$4,900	\$100,000
Total	\$49,120	\$12,280	\$47,520	\$11,880	\$47,520	\$11,880	\$47,520	\$11,880	\$239,600

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Highway Preservation

National Highway System

Areawide Urban Reconstruction

TIP ID 60-9511-19 Year of Operation Ongoing

Agency SHA - Regional Project Type Other

Project Category Highway Preservation Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) A-20 **Est. Total Cost** \$24,280,000

Description:

This is an ongoing program to provide roadway rehabilitation and streetscape improvements on State highways in towns and urban areas. These are non-capacity highway improvements which may include but are not limited to projects dealing with drainage, curb and gutter, pavement milling and resurfacing, sidewalks, streetscapes, signs, and markings and lighting improvements.

Justification:

Will improve safety and the flow of traffic, thereby reducing delay, queuing and congestion. This will also enhance the surrounding environment and community.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.



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Highway Preservation

National Highway System

Areawide Urban Reconstruction

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$40	\$10	\$40	\$10	\$40	\$10	\$40	\$10	\$200
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$8	\$2	\$8	\$2	\$8	\$2	\$8	\$2	\$40
PL	\$4	\$1	\$4	\$1	\$4	\$1	\$4	\$1	\$20
ROW	\$4	\$1	\$4	\$1	\$4	\$1	\$4	\$1	\$20
Subtotal	\$56	\$14	\$56	\$14	\$56	\$14	\$56	\$14	\$280

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SHA - Regional

2020 - 2023 Transportation Improvement Program

Highway Preservation

National Highway System

Areawide Urban Reconstruction

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$4,000	\$1,000	\$4,000	\$1,000	\$4,000	\$1,000	\$4,000	\$1,000	\$20,000
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
PL	\$160	\$40	\$160	\$40	\$160	\$40	\$160	\$40	\$800
ROW	\$320	\$80	\$320	\$80	\$320	\$80	\$320	\$80	\$1,600
Subtotal	\$4,800	\$1,200	\$4,800	\$1,200	\$4,800	\$1,200	\$4,800	\$1,200	\$24,000
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Total	\$4,856	\$1,214	\$4,856	\$1,214	\$4,856	\$1,214	\$4,856	\$1,214	\$24,280

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Morgan State University Transportation Research Program

TIP ID 60-0702-99 Year of Operation Ongoing

Agency SHA - Regional Project Type Miscellaneous

Project Category Miscellaneous Functional Class NA

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) Est. Total Cost \$90,000

Description:

Transportation research, education and technology transfer activities involving university faculty, staff and students.

Justification:

The project will support research and solutions to real world transportation issues and meet state and federal transportation objectives.



Connection to Long-Range Transportation Planning Goals:

9. Promote Informed Decision Making

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SHA - Regional 2020 - 2023 Transportation Improvement Program

Miscellaneous

Morgan State University Transportation Research Program

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$45	\$0	\$45	\$0	\$0	\$0	\$0	\$0	\$90
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$45	\$0	\$45	\$0	\$0	\$0	\$0	\$0	\$90
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Total	\$45	\$0	\$45	\$0	\$0	\$0	\$0	\$0	\$90

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MD 198: MD 295 to MD 32

TIP ID 61-1403-41 **Year of Operation** 2034

Agency SHA - Anne Arundel County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Principal Arterial

Conformity Status Not Exempt **Physical Data** 2 to 4 lanes, 2.7 Miles

CIP or CTP ID(s) AA5101 **Est. Total Cost** \$188,800,000

Description:

This project will address capacity needs on MD 198 from MD 295 to MD 32. The project will include a four-lane divided roadway with an off-road shared use path, sidewalks and a flyover ramp at the MD 198 interchange with MD 32.

Phase I, the MD 198/MD 295 partial interchange project, is funded for preliminary engineering and is flowed under this TIP ID. The total cost includes projected funding that will be required to construct the remainder of the corridor improvements. No schedule or funding for the remaining segments has been identified.

Justification:

MD 198 is a key link to Fort Meade from points south and west. The area in and around Fort Meade has experienced substantial growth as a result of BRAC expansion.

Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



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Highway Capacity

MD 198: MD 295 to MD 32

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$170	\$0	\$292	\$0	\$0	\$0	\$0	\$462
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$170	\$0	\$292	\$0	\$0	\$0	\$0	\$462
Total	\$0	\$170	\$0	\$292	\$0	\$0	\$0	\$0	\$462

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Highway Capacity

National Highway System

US 50: MD 70 to MD 2

TIP ID 61-1404-41 **Year of Operation** 2018

Agency SHA - Anne Arundel County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Freeway & Expressways

Conformity Status Not Exempt **Physical Data** 6 to 7 lanes, 1.66 miles

CIP or CTP ID(s) AA2211 **Est. Total Cost** \$26,094,000

Description:

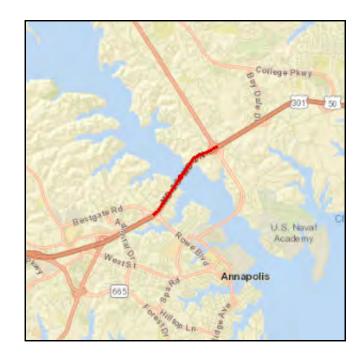
Project to ease congestion on US 50 from MD 70 to MD 2 (northbound), by restriping lanes on the Severn River/Pearl Harbor Memorial Bridge to accommodate one additional eastbound travel lane for the length of the project. The remainder of the funding for this project will complete right-of-way acquisition. The improvements opened to traffic in May of 2018.

Justification:

The approaches to the Severn River/Pearl Harbor Memorial Bridge experience severe congestion, particularly the eastbound direction during the evening peak period.

Connection to Long-Range Transportation Planning Goals:

4. Increase Mobility



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SHA - Anne Arundel County

2020 - 2023 Transportation Improvement Program

Highway Capacity

National Highway System

US 50: MD 70 to MD 2

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$39
Subtotal	\$0	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$39
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Total	\$0	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$39

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Highway Capacity National Highway System

MD 175: Disney Road to Reece Road

TIP ID 61-1601-41 **Year of Operation** 2020

SHA - Anne Arundel County **Project Type** Roadway widening Agency

Project Category **Highway Capacity Functional Class** Minor Arterial

Conformity Status Not Exempt **Physical Data** 2 to 6 lanes, 1.13 miles

CIP or CTP ID(s) AA4364 **Est. Total Cost** \$28,486,000

Description:

This project is Phase 2 of the MD 175: MD 295 to MD 170 corridor project, which had TIP ID #61-0605-41 in previous TIPs. It will widen MD 175 from Disney Road to Reece Road, from the existing two lane roadway to a six lane roadway. Bicycle and pedestrian facilities will be provided.

Phase 1, widening MD 175 through the MD 295 interchange from National Business Parkway to McCarron Court, has TIP ID #61-1701-41.

Justification:

This project will improve safety and operations along MD 175 and ease growing congestion related to BRAC expansion at Fort Meade.

Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.

Dorsey Rd U.S. Army Fort George G Meade 198 Tiptor Airport

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2020 - 2023 Transportation Improvement Program

Highway Capacity

National Highway System

MD 175: Disney Road to Reece Road

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$4,083	\$3,530	\$0	\$0	\$0	\$0	\$0	\$0	\$7,613
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$4,083	\$3,530	\$0	\$0	\$0	\$0	\$0	\$0	\$7,613
Total	\$4,083	\$3,530	\$0	\$0	\$0	\$0	\$0	\$0	\$7,613

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Highway Capacity

National Highway System

MD 175: National Business Parkway to McCarron Court

TIP ID 61-1701-41 **Year of Operation** 2021

Agency SHA - Anne Arundel County Project Type Roadway widening

Project Category Highway Capacity Functional Class Minor Arterial

Conformity StatusNot ExemptPhysical Data2 to 6 lanes, 1.1 miles

CIP or CTP ID(s) AA4363 **Est. Total Cost** \$72,361,000

Description:

This project will widen MD 175 from National Business Parkway to McCarron Court from two lanes to six lanes, including through the MD 295 interchange. It also reconfigures ramps in the northeast and southwest quadrants of the MD 295 interchange to create signalized left turns at MD 175. Bicycle and pedestrian facilities will be provided.

This project is Phase 1 of the improvements identified in the MD 175: MD 295 to MD 170 corridor project, which has TIP ID# 61-0605-41. Phase 2, widening MD 175 from Disney Road to Reece Road, has TIP ID# 61-1601-41.

Justification:

This project will improve safety and operation along MD 175 and ease growing congestion related to the BRAC expansion at Fort Meade.

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Connection to Long-Range Transportation Planning Goals:

- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.

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Highway Capacity

National Highway System

MD 175: National Business Parkway to McCarron Court

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$7,815	\$2,181	\$9,441	\$2,634	\$9,479	\$2,645	\$7,707	\$2,151	\$44,053
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$7,815	\$2,181	\$9,441	\$2,634	\$9,479	\$2,645	\$7,707	\$2,151	\$44,053

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SHA - Anne Arundel County

2020 - 2023 Transportation Improvement Program

Highway Capacity

National Highway System

MD 175: National Business Parkway to McCarron Court

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$1,493	\$0	\$1,072	\$0	\$583	\$0	\$0	\$3,148
Subtotal	\$0	\$1,493	\$0	\$1,072	\$0	\$583	\$0	\$0	\$3,148
Total	\$7,815	\$3,674	\$9,441	\$3,706	\$9,479	\$3,228	\$7,707	\$2,151	\$47,201

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Environmental/Safety
National Highway System

I-695 at Cromwell Bridge Road - Drainage Improvement

TIP ID 63-1801-38 **Year of Operation** 2020

Agency SHA - Baltimore County Project Type Environmental other

Project Category Environmental/Safety Functional Class Interstate

Conformity Status Exempt Physical Data NA

CIP or CTP ID(s) BA7121 **Est. Total Cost** \$11,809,000

Description:

This project includes: restoration of the stream channel and repair of SHA drainage outfalls and outfall channels, construction of stormwater management facilities to provide water quality treatment, and relocation of the Baltimore County sewer line.

Justification:

The stream channel is degraded, is causing erosion, and needs repair. Water from SHA impervious surfaces is currently untreated. These improvements provide mitigation for I-695 from US 40 to MD 144 (SWOL II - BA7275172) and for future MDOT SHA projects.

Goucher College Towson Regester Parkville

Connection to Long-Range Transportation Planning Goals:

5.B Conserve and Enhance the Environment -- Reduce surface runoff.

5.E Conserve and Enhance the Environment -- Preserve and protect natural and cultural resources.

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Environmental/Safety
National Highway System

I-695 at Cromwell Bridge Road - Drainage Improvement

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$2,846	\$920	\$1,093	\$354	\$0	\$0	\$0	\$0	\$5,213
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$2,846	\$920	\$1,093	\$354	\$0	\$0	\$0	\$0	\$5,213

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
отн	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$85	\$0	\$85	\$0	\$43	\$0	\$0	\$213
Subtotal	\$0	\$85	\$0	\$85	\$0	\$43	\$0	\$0	\$213
Total	\$2,846	\$1,005	\$1,093	\$439	\$0	\$43	\$0	\$0	\$5,426

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MD 140: Painters Mill Road to Owings Mills Boulevard - Phase 2

TIP ID 63-0802-41 **Year of Operation** 2025

Agency SHA - Baltimore County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Principal Arterial

Conformity Status Not Exempt Physical Data 0.4 miles, 4 to 6 lanes

CIP or CTP ID(s) BA7291 **Est. Total Cost** \$18,500,000

Description:

Capacity and safety improvements to MD 140 from north of Painters Mill Road to Owings Mills Boulevard including; an additional through lane on northbound and southbound MD 140, addition of left and right turn lanes, and added width for bicycle compatibility. This results in three through lanes on northbound MD 140 and three through lanes on southbound MD 140. The Estimated Total Cost includes projected funding that will be required to construct this project. No schedule or funding for construction have been identified. This is phase 2 of the MD 140 corridor improvements. Phase I - MD 140: Garrison View Road to Painters Mill Road, including the intersection, has TIP ID #63-1203-41.

Justification:

This project will provide additional capacity and access for the planned development in Owings Mills, including the Owings Mills Town Center, the Owings Mills Metro Station and the MD 140 business corridor.

Garrison Fores Park Hold Owings Mills Owings Mills Owings Mills Owings Mills Owings Mills Owings Mills

Connection to Long-Range Transportation Planning Goals:

- 3.E Improve Accessibility -- Provide or improve pedestrian and bicycle facilities that link to activity centers and public transit.
- 4. Increase Mobility

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Highway Capacity

MD 140: Painters Mill Road to Owings Mills Boulevard - Phase 2

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$530	\$0	\$0	\$0	\$0	\$0	\$0	\$530
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$530	\$0	\$0	\$0	\$0	\$0	\$0	\$530
Total	\$0	\$530	\$0	\$0	\$0	\$0	\$0	\$0	\$530

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Highway Capacity

National Highway System

I-795: Dolfield Boulevard Interchange

TIP ID 63-0803-46 **Year of Operation** 2040

Agency SHA - Baltimore County Project Type New interchange

Project Category Highway Capacity Functional Class Interstate

Conformity Status Not Exempt Physical Data Full Interchange, 4 to 6 lanes

CIP or CTP ID(s) BA4511 **Est. Total Cost** \$115,500,000

Description:

This study has identified a preferred alternative that constructs a new interchange at the existing Pleasant Hill Road overpass. The project also includes widening I-795 from 4 to 6 lanes between Owings Mills and Franklin Boulevards. Current funding will take engineering to the 30% stage, when phasing options will be evaluated. The Estimated Total Cost includes projected funding that will be required to construct this project. No schedule or funding for construction have been determined. Baltimore County contributed \$0.625 million towards planning.

Justification:

This project will provide improved access to the planned growth corridor along Red Run Boulevard in Owings Mills.

Connection to Long-Range Transportation Planning Goals:

4. Increase Mobility

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Highway Capacity

National Highway System

I-795: Dolfield Boulevard Interchange

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$990	\$110	\$1,391	\$154	\$191	\$22	\$0	\$0	\$2,858
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$990	\$110	\$1,391	\$154	\$191	\$22	\$0	\$0	\$2,858
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Total	\$990	\$110	\$1,391	\$154	\$191	\$22	\$0	\$0	\$2,858

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Highway Capacity

National Highway System

Golf Club

MD 140: Garrison View Road to Painters Mill Road - Phase 1

TIP ID 63-1203-41 **Year of Operation** 2019

Agency SHA - Baltimore County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Principal Arterial

Conformity Status Not Exempt Physical Data 0.2 Miles, 2 to 3 lanes

CIP or CTP ID(s) BA7292 **Est. Total Cost** \$18,272,000

Description:

Improvements include widening northbound MD 140 to provide a third through lane (lane is 16'-wide bicycle-compatible) and 5' raised median, constructing 5' ADA-compliant sidewalks, resurfacing the roadway, landscaping, and utility relocations. Southbound improvements are to be provided by a developer. The remaining funding for this project will complete right-of-way acquisition.

This is phase 1 of MD 140 construction. Phase 2 is the MD 140: North of Painters Mill Road to Owings Mills Boulevard project (TIP ID #63-0802-41).

Justification:

This project will enhance motorist, bicycle and pedestrian safety, and reduce congestion along the corridor. Traffic is expected to increase as a result of the proposed development in the area, including the transit-oriented development at the Owings Mills Metro Station and Foundry Row.

Forestad Owings Mills Park Heights P. Dr. R. Dr. R.

Connection to Long-Range Transportation Planning Goals:

3.E Improve Accessibility -- Provide or improve pedestrian and bicycle facilities that link to activity centers and public transit.

4. Increase Mobility

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SHA - Baltimore County

2020 - 2023 Transportation Improvement Program

Highway Capacity

National Highway System

MD 140: Garrison View Road to Painters Mill Road - Phase 1

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$74	\$0	\$16	\$0	\$0	\$0	\$0	\$90
Subtotal	\$0	\$74	\$0	\$16	\$0	\$0	\$0	\$0	\$90
Total	\$0	\$74	\$0	\$16	\$0	\$0	\$0	\$0	\$90

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Highway Capacity

National Highway System

I-695: US 40 to MD 144

TIP ID 63-1601-41 **Year of Operation** 2021

Agency SHA - Baltimore County Project Type Roadway widening

Project Category Highway Capacity Functional Class Interstate

Conformity Status Not Exempt Physical Data 3 to 4 lanes, 1.2 miles

CIP or CTP ID(s) BA7271 **Est. Total Cost** \$105,496,000

Description:

This project will widen the I-695 outer loop from US 40 to MD 144 from three to four through lanes. This project will also accommodate the final configuration of this section of the beltway. The noise barrier on the inner loop will be replaced and extended from Shady Nook to US 40 as part of this project.

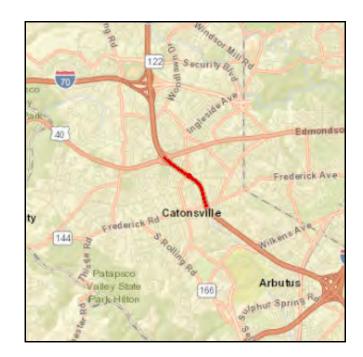
Justification:

This project will provide additional capacity and improve safety and operations on this segment of I-695.

Connection to Long-Range Transportation Planning Goals:

1.B Improve System Safety -- Apply safety-related management and operations techniques.

4. Increase Mobility



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Highway Capacity

National Highway System

I-695: US 40 to MD 144

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$12,124	\$260	\$0	\$2,124	\$0	\$9,657	\$0	\$5,219	\$29,384
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$12,124	\$260	\$0	\$2,124	\$0	\$9,657	\$0	\$5,219	\$29,384

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$348	\$0	\$0	\$0	\$0	\$0	\$0	\$348
Subtotal	\$0	\$348	\$0	\$0	\$0	\$0	\$0	\$0	\$348
Total	\$12,124	\$608	\$0	\$2,124	\$0	\$9,657	\$0	\$5,219	\$29,732

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Highway Capacity

National Highway System

I-695: Bridge Replacements at Benson Ave and US 1

TIP ID 63-1602-43 **Year of Operation** 2018

Agency SHA - Baltimore County Project Type Bridge widening

Project Category Highway Capacity Functional Class Interstate

Conformity Status Not Exempt Physical Data NA

CIP or CTP ID(s) BA3661 **Est. Total Cost** \$48,860,000

Description:

Replacement of Bridge 0311305 on the I-695 Inner Loop over Benson Ave and Bridge 0311405 on the I-695 Inner Loop over Leeds Avenue, US 1, AMTRAK and Herbert Run. The project also includes the realignment of the I-695 northbound on-ramp from Leeds Avenue to US 1. Both bridges will be widened to accommodate the future widening of I-695. US 1 will be narrowed to one lane in each direction extending approximately 2,400 feet north and south of I-695. The project is open to service, with the remaining funding for this project completing right-of-way acquisition.

Justification:

The bridges on the I-695 Inner Loop over Benson and Leeds/US 1/ AMTRAK/ Herbert Run are nearing the end of their useful life and were rated in poor condition. An existing ramp will be realigned as part of this project to provide a more direct connection from US 1 to the Inner Loop of I-695 and to remove interstate traffic from residential areas.

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 3.E Improve Accessibility -- Provide or improve pedestrian and bicycle facilities that link to activity centers and public transit.
- 4. Increase Mobility



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SHA - Baltimore County

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Highway Capacity

National Highway System

I-695: Bridge Replacements at Benson Ave and US 1

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$50	\$0	\$34	\$0	\$0	\$0	\$0	\$84
Subtotal	\$0	\$50	\$0	\$34	\$0	\$0	\$0	\$0	\$84
[1						
Total	\$0	\$50	\$0	\$34	\$0	\$0	\$0	\$0	\$84

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Highway Capacity

National Highway System

I-695: I-70 to MD 43

TIP ID 63-1802-41 **Year of Operation** 2024

Agency SHA - Baltimore County Project Type Roadway widening

Project Category Highway Capacity Functional Class Interstate

Conformity Status Not Exempt Physical Data 6 to 8 lanes, 19 miles

CIP or CTP ID(s) BANEW2 Est. Total Cost \$281,101,000

Description:

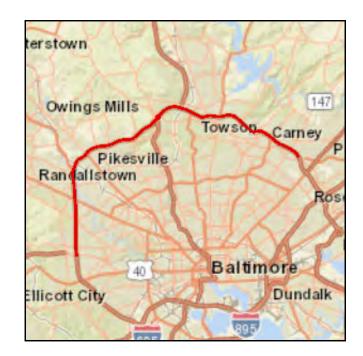
The purpose of this project is to utilize the inside shoulder to create a new travel lane on the inner and outer loops of I-695 during daily peak travel periods from I-70 to MD 43. This project includes reconfiguration of the I-695 and I-70 interchange and potential future adaptive ramp metering. The estimated total cost has increased from \$251 million to \$281.1 million due to the addition of dynamic lane controls to the project.

Justification:

This project will address capacity, safety, and operations concerns along I-695.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 4.D Increase Mobility -- Apply mobility-related management and operations techniques.



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Highway Capacity

National Highway System

I-695: I-70 to MD 43

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$14,859	\$10,192	\$37,597	\$28,103	\$50,856	\$19,343	\$56,314	\$17,983	\$235,247
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$2,340	\$4,159	\$1,949	\$550	\$0	\$0	\$0	\$0	\$8,998
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$17,199	\$14,351	\$39,546	\$28,653	\$50,856	\$19,343	\$56,314	\$17,983	\$244,245
Total	\$17,199	\$14,351	\$39,546	\$28,653	\$50,856	\$19,343	\$56,314	\$17,983	\$244,245

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Highway Preservation

National Highway System

I-83: Bridge Replacement over Padonia Road

TIP ID 63-1701-13 **Year of Operation** 2021

Agency SHA - Baltimore County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Other Principal Arterial

Conformity Status Exempt Physical Data 3 to 3 Lanes

CIP or CTP ID(s) BA0381 **Est. Total Cost** \$25,755,000

Description:

Replace bridge no. 03062 along I-83 over Padonia Road, which carries both northbound and southbound traffic.

Justification:

The existing bridge, constructed in 1950, is rated in poor condition. The bridge serves as a major link along the I-83 commuter and freight route from southern Pennsylvania to Baltimore County and City.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).



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Highway Preservation

National Highway System

I-83: Bridge Replacement over Padonia Road

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$6,564	\$278	\$4,894	\$640	\$2,191	\$287	\$0	\$0	\$14,854
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$6,564	\$278	\$4,894	\$640	\$2,191	\$287	\$0	\$0	\$14,854

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Highway Preservation

National Highway System

I-83: Bridge Replacement over Padonia Road

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$611	\$0	\$0	\$0	\$0	\$0	\$0	\$611
Subtotal	\$0	\$611	\$0	\$0	\$0	\$0	\$0	\$0	\$611
Total	\$6,564	\$889	\$4,894	\$640	\$2,191	\$287	\$0	\$0	\$15,465

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MD 137: Bridge Replacement over I-83

TIP ID 63-1703-13 **Year of Operation** 2018

Agency SHA - Baltimore County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Minor Arterial

Conformity Status Exempt Physical Data 2 to 2 Lanes

CIP or CTP ID(s) BA0801 **Est. Total Cost** \$8,923,000

Description:

The project replaces bridge no. 03050 along MD 137 (Mount Carmel Road) over I-83. A 5 foot shoulder is included on both sides of the roadway. Construction and right-of-way acquisition are State funded. Construction is complete, with the remaining funding for this project completing right-of-way acquisition.

Justification:

The existing bridge was built in 1955 and is rated in poor condition. The bridge links communities on either side of I-83.

Gunpowder Falls State Park-Hereford 137

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

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SHA - Baltimore County

2020 - 2023 Transportation Improvement Program

Highway Preservation

MD 137: Bridge Replacement over I-83

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$56	\$0	\$23	\$0	\$0	\$0	\$0	\$79
Subtotal	\$0	\$56	\$0	\$23	\$0	\$0	\$0	\$0	\$79
Total	\$0	\$56	\$0	\$23	\$0	\$0	\$0	\$0	\$79

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US 1: Bridge Replacement over CSX

TIP ID 63-1704-13 **Year of Operation** 2021

Agency SHA - Baltimore County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Minor Arterial

Conformity Status Exempt Physical Data 4 to 4 Lanes

CIP or CTP ID(s) BA5341 **Est. Total Cost** \$34,004,000

Description:

The project will replace bridge no. 03008 along US 1 (Washington Boulevard) over CSX railroad track and property. An 8 foot shoulder is planned on both sides of the roadway. The estimated total cost has increased from \$29.78 million to \$34.004 million due to an unfavorable bid and additional right-of-way needs.

Justification:

The existing bridge, built in 1930, is rated in poor condition.

Arbutus Arbutus Arbutus Arbutus Arbutus Approximate Record Avalor Elkridge 205

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

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Highway Preservation

US 1: Bridge Replacement over CSX

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$7,495	\$2,084	\$6,420	\$1,790	\$3,362	\$939	\$0	\$0	\$22,090
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$7,495	\$2,084	\$6,420	\$1,790	\$3,362	\$939	\$0	\$0	\$22,090

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$42	\$0	\$42	\$0	\$31	\$0	\$0	\$115
Subtotal	\$0	\$42	\$0	\$42	\$0	\$31	\$0	\$0	\$115
Total	\$7,495	\$2,126	\$6,420	\$1,832	\$3,362	\$970	\$0	\$0	\$22,205

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Highway Preservation

National Highway System

US 40: Bridge Replacements over Little & Big Gunpowder Falls

TIP ID 63-1706-13 **Year of Operation** 2021

Agency SHA - Baltimore County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Other Principal Arterial

Conformity Status Exempt Physical Data 4 to 4 lanes

CIP or CTP ID(s) BA6091 **Est. Total Cost** \$30,414,000

Description:

This project will replace and widen the superstructure on bridges #0303403 and #0303404 along eastbound and westbound US 40 over Little Gunpowder Falls and bridges #0303503 and #0303504 along eastbound and westbound US 40 over Big Gunpowder Falls. The new bridge superstructures will maintain two 12 foot lanes on each bridge, as well as 4 foot inside shoulders and 10 foot outside shoulders to match the approach roadways. This project was delayed one year due to an environmental permitting issue. The estimated total cost has increased from \$25.79 million to \$30.41 million due to an unfavorable bid.

Justification:

The existing bridges, built in 1935, are rated in poor condition.

Rad Suppowder Falls St Park-Big Gunpwdr White Marsh Bird River

Connection to Long-Range Transportation Planning Goals:

1.C Improve System Safety -- Eliminate hazardous or substandard conditions.

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

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Highway Preservation

National Highway System

US 40: Bridge Replacements over Little & Big Gunpowder Falls

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$5,653	\$1,786	\$5,975	\$1,886	\$4,471	\$1,407	\$104	\$26	\$21,308
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$5,653	\$1,786	\$5,975	\$1,886	\$4,471	\$1,407	\$104	\$26	\$21,308

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$3	\$0	\$3	\$0	\$2	\$0	\$0	\$8
Subtotal	\$0	\$3	\$0	\$3	\$0	\$2	\$0	\$0	\$8
Total	\$5,653	\$1,789	\$5,975	\$1,889	\$4,471	\$1,409	\$104	\$26	\$21,316

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MD 45: Padonia Rd to Wight Ave

TIP ID 63-1707-11 **Year of Operation** 2021

Agency SHA - Baltimore County Project Type Road resurfacing/rehabilitation

Project Category Highway Preservation Functional Class Other Principal Arterial

Conformity Status Exempt Physical Data 2.55 miles

CIP or CTP ID(s) BA5381 **Est. Total Cost** \$16,396,000

Description:

This project will replace a 24-inch water main and resurface the roadway within the project limits. The project also includes: reconstructing sidewalks, ramps, curbs and driveways; constructing drainage improvements, replacing damaged inlets and cleaning existing storm drains; installing new signage; and, upgrading intersection signal systems. Baltimore County is contributing \$12.3 million for water utility replacement. This project was delayed due to a minor environmental permitting issue.

Justification:

This project will provide significant improvements to the roadway and will render aging drainage, sidewalk, and utility infrastructure in good repair. The intersection signal upgrades will improve safety, capacity and operations.

Phoenix 145 Hayfeldo Country Shawar Rd Cub Crason Rixige Park Park

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.

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Highway Preservation

MD 45: Padonia Rd to Wight Ave

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$900	\$4,879	\$900	\$4,881	\$60	\$332	\$0	\$0	\$11,952
отн	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$900	\$4,879	\$900	\$4,881	\$60	\$332	\$0	\$0	\$11,952
Total	\$900	\$4,879	\$900	\$4,881	\$60	\$332	\$0	\$0	\$11,952

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MD 151/MD 151B: Bridge Replacements

TIP ID 63-2001-13 **Year of Operation** 2023

Agency SHA - Baltimore County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Minor Arterial

Conformity Status Exempt Physical Data Bridge 0335100: 2 to 2, Bridge 0309900: 4 to 4

CIP or CTP ID(s) BA8602 **Est. Total Cost** \$21,000,000

Description:

This project will replace bridge 0309900 on MD 151 and bridge 0335000 on MD 151B. The replacement of the deck on bridge 0335100 on MD 151B is also included in this project.

Justification:

The existing bridges built in 1954, 1955 and 1957 are rated in poor condition. Baltimore County has identified the replacement of these bridges as important for the redevelopment of this area.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

7.D Promote Prosperity and Economic Opportunity -- Invest within local- and state-designated growth areas.



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SHA - Baltimore County

2020 - 2023 Transportation Improvement Program

Highway Preservation

MD 151/MD 151B: Bridge Replacements

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$1,067	\$301	\$5,341	\$1,507	\$5,547	\$1,565	\$3,644	\$1,028	\$20,000
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$1,067	\$301	\$5,341	\$1,507	\$5,547	\$1,565	\$3,644	\$1,028	\$20,000

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$322	\$0	\$0	\$0	\$0	\$0	\$0	\$322
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$322	\$0	\$0	\$0	\$0	\$0	\$0	\$322
Total	\$1,067	\$623	\$5,341	\$1,507	\$5,547	\$1,565	\$3,644	\$1,028	\$20,322

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MD 30 Business: North Woods Trail to CSX Railroad (Hampstead Community Safety & Enhancement)

TIP ID 64-1401-19 **Year of Operation** 2020

Agency SHA - Carroll County Project Type Other

Project Category Highway Preservation Functional Class Other Principal Arterial

Conformity Status Exempt Physical Data 1.58 miles, 2 to 2 lanes

CIP or CTP ID(s) CL3411 **Est. Total Cost** \$31,230,000

Description:

The purpose of this project is to provide improvements on MD 30 Business (Main Street in Hampstead) from North Woods Trail to CSX Railroad including reconstruction of the existing roadway with ADA compliant sidewalks on both sides of the street; curb and gutter; crosswalks; and driveway entrances. The project will also upgrade the drainage system, stormwater management facilities, landscaping, traffic signals, and relocate utilities. Because of the low speeds and constrained urban environment, bicycles will be accommodated in the travel lanes.

Engineering and right-of-way phases were funded under the Areawide Urban Reconstruction Program.

Justification:

This project will provide significant improvements to the roadway, sidewalk and drainage infrastructure in the town of Hampstead. It will also address operational issues at intersections.

Hampstead Mexico Rd Hampstead Path Glack Rock Rd

Connection to Long-Range Transportation Planning Goals:

- 2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).
- 2.F Improve and Maintain the Existing Infrastructure -- Improve the condition of pedestrian and bicycle facilities.
- 3.B Improve Accessibility -- Improve ADA-related conditions for pedestrians / transit riders.

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Highway Preservation

MD 30 Business: North Woods Trail to CSX Railroad (Hampstead Community Safety & Enhancement)

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$8,466	\$0	\$33	\$0	\$0	\$0	\$0	\$8,499
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$8,466	\$0	\$33	\$0	\$0	\$0	\$0	\$8,499

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Highway Preservation

MD 30 Business: North Woods Trail to CSX Railroad (Hampstead Community Safety & Enhancement)

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$9	\$2	\$7	\$1	\$0	\$0	\$0	\$0	\$19
Subtotal	\$9	\$2	\$7	\$1	\$0	\$0	\$0	\$0	\$19
			, 1						
Total	\$9	\$8,468	\$7	\$34	\$0	\$0	\$0	\$0	\$8,518

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MD 86: Bridge Replacement over Gunpowder Falls

TIP ID 64-1701-13 **Year of Operation** 2021

Agency SHA - Carroll County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Major Collector

Conformity Status Exempt Physical Data 2 to 2 Lanes

CIP or CTP ID(s) CL2391 **Est. Total Cost** \$7,540,000

Description:

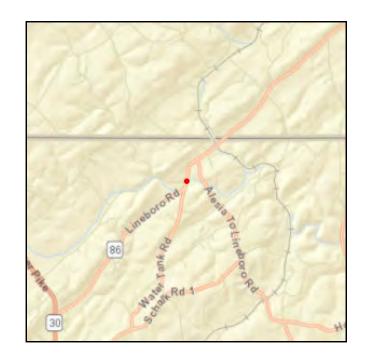
The project will replace bridge no. 06019 along MD 86 (Lineboro Road) over the South Branch of Gunpowder Falls. A 5 foot minimum shoulder is planned on both sides of the road. Construction was delayed to accommodate the relocation of utilities.

Justification:

The existing bridge, built in 1929, is rated in poor condition.

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).



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Highway Preservation

MD 86: Bridge Replacement over Gunpowder Falls

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$1,918	\$0	\$30	\$0	\$28	\$0	\$26	\$2,002
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$55	\$0	\$55	\$0	\$5	\$0	\$0	\$115
Subtotal	\$0	\$1,973	\$0	\$85	\$0	\$33	\$0	\$26	\$2,117
Total	\$0	\$1,973	\$0	\$85	\$0	\$33	\$0	\$26	\$2,117

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MD 496: Bridge Replacement over Big Pipe Creek

TIP ID 64-1702-13 **Year of Operation** 2018

Agency SHA - Carroll County Project Type Bridge repair/deck replacement

Project Category Highway Preservation Functional Class Major Collector

Conformity Status Exempt Physical Data 2 to 2 Lanes

CIP or CTP ID(s) CL4031 **Est. Total Cost** \$5,784,000

Description:

The project will replace bridge no. 06038 along MD 496 (Bachmans Valley Road) over Big Pipe Creek. A 5 foot minimum shoulder is planned on both sides of the roadway. This project is State funded. The bridge was open to service in fall 2018. The remaining funding is for utility work.

Justification:

The existing structure, built in 1932, is rated in poor condition.

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Deep Run Rd E

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

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Highway Preservation

MD 496: Bridge Replacement over Big Pipe Creek

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$71	\$0	\$71	\$0	\$59	\$0	\$0	\$201
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$71	\$0	\$71	\$0	\$59	\$0	\$0	\$201
Total	\$0	\$71	\$0	\$71	\$0	\$59	\$0	\$0	\$201

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Highway Capacity

National Highway System

US 40: MD 7 & MD 159 Intersection Reconstruction - Phase 2

TIP ID 65-1402-41 **Year of Operation** 2019

Agency SHA - Harford County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Principal Arterial

Conformity Status Not Exempt Physical Data Intersection, 4 to 6 Lanes

CIP or CTP ID(s) HA3487 **Est. Total Cost** \$24,884,000

Description:

The project includes widening US 40 from two through lanes to three through lanes in each direction, plus added turn lanes. West bound US 40 widening will extend approximately 2,500 feet west of MD 7. East bound US 40 widening will extend approximately 3,000 feet east to tie into previous widening at the MD 715 interchange. MD 159 will be modified to tie into US 40 eastbound widening. The bridge over Cranberry Run will also be widened. The project is anticipated to be completed in calendar year 2019, fiscal year 2020.

Justification:

Improved access to Aberdeen Proving Ground is a vital component needed to accommodate the increase of employment as a result of BRAC. The intersection improvements will improve safety, capacity and operations in the near-term.

Aberdeen Ola Miladelphia Rd Aberdeen Riverside

Connection to Long-Range Transportation Planning Goals:

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

4. Increase Mobility

7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.

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Highway Capacity

National Highway System

US 40: MD 7 & MD 159 Intersection Reconstruction - Phase 2

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$3,062	\$489	\$314	\$38	\$0	\$0	\$0	\$0	\$3,903
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$3,062	\$489	\$314	\$38	\$0	\$0	\$0	\$0	\$3,903

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
отн	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Subtotal	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Total	\$3,062	\$539	\$314	\$38	\$0	\$0	\$0	\$0	\$3,953

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MD 24: South of Stirrup Run Culvert to Deer Creek Bridge, Section G

TIP ID 65-1601-12 Year of Operation TBD

Agency SHA - Harford County Project Type Road reconstruction

Project Category Highway Preservation Functional Class Major Collector

Conformity Status Exempt Physical Data 1.8 Miles

CIP or CTP ID(s) HA3342 **Est. Total Cost** \$8,206,000

Description:

MD 24 will be resurfaced and reconstructed including slope repair and guardrail replacement. This is the southern section (Section G) of MD 24, Rocks Road, from 900 feet south of Sharon Road to 1,700 feet north of Ferncliff Lane.

The Estimated Total Cost includes estimated funding to complete construction of this project. A schedule and funding for construction have yet to be determined.

Justification:

The purpose of this project is to improve road safety by remediating the slope supporting MD 24, repairing the pavement, improving roadway drainage and addressing roadside safety concerns.

Rocks State Park Rocks State Park Rocks State Park Rocks State Rocks Rocks

Connection to Long-Range Transportation Planning Goals:

1.C Improve System Safety -- Eliminate hazardous or substandard conditions.

2.A Improve and Maintain the Existing Infrastructure -- Improve the condition of roadway systems (pavement, bridges, tunnels).

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Highway Preservation

MD 24: South of Stirrup Run Culvert to Deer Creek Bridge, Section G

(Funding in Thousands)

Surface Transportation Block Grant Program

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$482	\$168	\$427	\$148	\$0	\$0	\$0	\$0	\$1,225
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$482	\$168	\$427	\$148	\$0	\$0	\$0	\$0	\$1,225

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Highway Preservation

MD 24: South of Stirrup Run Culvert to Deer Creek Bridge, Section G

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$67	\$0	\$0	\$0	\$0	\$0	\$0	\$67
Subtotal	\$0	\$67	\$0	\$0	\$0	\$0	\$0	\$0	\$67
Total	\$482	\$235	\$427	\$148	\$0	\$0	\$0	\$0	\$1,292

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Highway Capacity

National Highway System

US 29: Middle Patuxent River to Seneca Drive - Phase 2

TIP ID 66-1406-41 **Year of Operation** 2030

Agency SHA - Howard County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Freeway & Expressways

Conformity Status Not Exempt Physical Data 5 to 6 lanes; 1.7 miles

CIP or CTP ID(s) HO3173 **Est. Total Cost** \$60,400,000

Description:

Widen the northbound section of US 29 from the Middle Patuxent River to Seneca Drive (Phase 2) from 2 to 3 lanes (1.7 miles). This project includes intersection improvements at Rivers Edge Road.

The estimated total cost includes projected funding that will be required to construct this project. No schedule or funding for construction have been identified.

Justification:

This project will improve safety and reduce congestion by upgrading northbound US 29 to match the southbound section, which is currently 3 lanes in each direction.

Natural Resource Man Area Columbia Columbia Service Man Area Resource Man Area Columbia Service Resource Man Area Columbia Service North Laurel North Laurel Service Park Service Resource Resource Resource Resource Resource North Laurel Service Park Service Resource Resou

Connection to Long-Range Transportation Planning Goals:

1.C Improve System Safety -- Eliminate hazardous or substandard conditions.

4. Increase Mobility

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Highway Capacity

National Highway System

US 29: Middle Patuxent River to Seneca Drive - Phase 2

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$664	\$0	\$621	\$0	\$0	\$0	\$0	\$1,285
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$664	\$0	\$621	\$0	\$0	\$0	\$0	\$1,285
Total	\$0	\$664	\$0	\$621	\$0	\$0	\$0	\$0	\$1,285

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Highway Capacity

National Highway System

MD 32: MD 108 to Linden Church Road

TIP ID 66-1602-41 **Year of Operation** 2019

Agency SHA - Howard County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Principal Arterial

Conformity Status Not Exempt Physical Data 2 to 4 lanes, 2.25 miles

CIP or CTP ID(s) HO1411 **Est. Total Cost** \$44,362,000

Description:

This project will widen MD 32 in both directions, from two lanes to a four lane divided roadway, from MD 108 to Linden Church Road. Howard County is contributing \$16.5 million in funding for construction of this project. The remainder of the project is State funded. The project will open to service in fall 2019. Right-of-way acquisition will be complete in fiscal year 2021.

This project is segment 1 of the MD 32: MD 108 to I-70 Corridor project that had TIP Reference #66-1405-41 in previous TIPs.

Justification:

This project will address congestion and safety problems which have been experienced as a result of increasing traffic volumes on the existing two lane roadway.

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility
- 7.E Promote Prosperity and Economic Opportunity -- Improve access to existing communities and regional generators of economic activity.



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SHA - Howard County

2020 - 2023 Transportation Improvement Program

Highway Capacity

National Highway System

MD 32: MD 108 to Linden Church Road

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$2,151	\$0	\$0	\$0	\$0	\$0	\$0	\$2,151
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$461	\$0	\$77	\$0	\$0	\$0	\$0	\$538
Subtotal	\$0	\$2,612	\$0	\$77	\$0	\$0	\$0	\$0	\$2,689
			1						
Total	\$0	\$2,612	\$0	\$77	\$0	\$0	\$0	\$0	\$2,689

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MD 32: Linden Church Road to I-70, Capacity & Safety Improvements

TIP ID 66-1703-41 **Year of Operation** 2022

Agency SHA - Howard County Project Type Roadway widening

Project Category Highway Capacity Functional Class Other Principal Arterial

Conformity Status Not Exempt Physical Data 2 to 4 Lanes, 6.6 Miles

CIP or CTP ID(s) HO7561 **Est. Total Cost** \$127,665,000

Description:

This project will widen MD 32 in both directions from a two lane to a four-lane divided roadway, from just north of the Linden Church Road interchange to just south of the I-70 interchange. The project also includes replacement of the Triadelphia Road bridge over MD 32.

This is a design build project and segment II of the MD 32: MD 108 to I-70 Corridor project improvements, which had TIP ID #66-1405-41 in previous TIPs. This is the final phase and contains the funding for the original corridor project planning. Phase 1, MD 108 to Linden Church Road, has TIP ID #66-1602-41. Road improvements are anticipated to be completed in 2022. The remaining funds in FY 2023 will complete right-of-way acquisition.

Justification:

The project will address congestion and safety problems which have been experienced as a result of increasing traffic volumes on the existing two lane roadway.

97 (nadalphia Rd Quarer Rd Clarksvi

Old Fraderick P

Man Area

Connection to Long-Range Transportation Planning Goals:

- 1.C Improve System Safety -- Eliminate hazardous or substandard conditions.
- 4. Increase Mobility
- 7.D Promote Prosperity and Economic Opportunity -- Invest within local- and state-designated growth areas.

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MD 32: Linden Church Road to I-70, Capacity & Safety Improvements

(Funding in Thousands)

National Highway Performance Program (National Highway System, Interstate Maintenance, Bridge (on-System))

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$24,167	\$4,896	\$27,613	\$5,736	\$23,367	\$4,039	\$0	\$0	\$89,818
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$1,950	\$1,574	\$1,170	\$1,354	\$2,125	\$2,305	\$532	\$151	\$11,161
Subtotal	\$26,117	\$6,470	\$28,783	\$7,090	\$25,492	\$6,344	\$532	\$151	\$100,979
			1	*-	*	****	4		4
Total	\$26,117	\$6,470	\$28,783	\$7,090	\$25,492	\$6,344	\$532	\$151	\$100,979

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Highway Capacity

National Highway System

I-95: Active Traffic Management

TIP ID 66-1801-41 Year of Operation TBD

Agency SHA - Howard County Project Type Roadway widening

Project Category Highway Capacity Functional Class Interstate

Conformity Status Exempt Physical Data 4.5 Miles

CIP or CTP ID(s) HO7261 **Est. Total Cost** \$1,800,000

Description:

This project (formerly CTP# HONEW2) will construct facilities to accommodate peak hour shoulder use on I-95 between MD 32 and MD 100 in Howard County. This project is currently funded for partial preliminary engineering only and would result in part-time capacity improvements.

Justification:

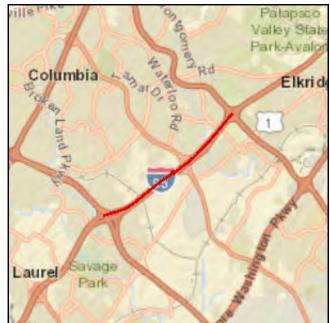
This project will address capacity and safety concerns along I-95 at closely spaced interchanges with higher than average crash rates.

Laurel

Connection to Long-Range Transportation Planning Goals:

1.B Improve System Safety -- Apply safety-related management and operations techniques.

4.D Increase Mobility -- Apply mobility-related management and operations techniques.



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SHA - Howard County

2020 - 2023 Transportation Improvement Program

Highway Capacity

National Highway System

I-95: Active Traffic Management

(Funding in Thousands)

Other

Phase	FY 2020 Federal Funds	FY 2020 Matching Funds	FY 2021 Federal Funds	FY 2021 Matching Funds	FY 2022 Federal Funds	FY 2022 Matching Funds	FY 2023 Federal Funds	FY 2023 Matching Funds	Total Four-Year Funding Request
CON	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ОТН	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENG	\$0	\$342	\$0	\$0	\$0	\$0	\$0	\$0	\$342
PL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$342	\$0	\$0	\$0	\$0	\$0	\$0	\$342
Total	\$0	\$342	\$0	\$0	\$0	\$0	\$0	\$0	\$342

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