

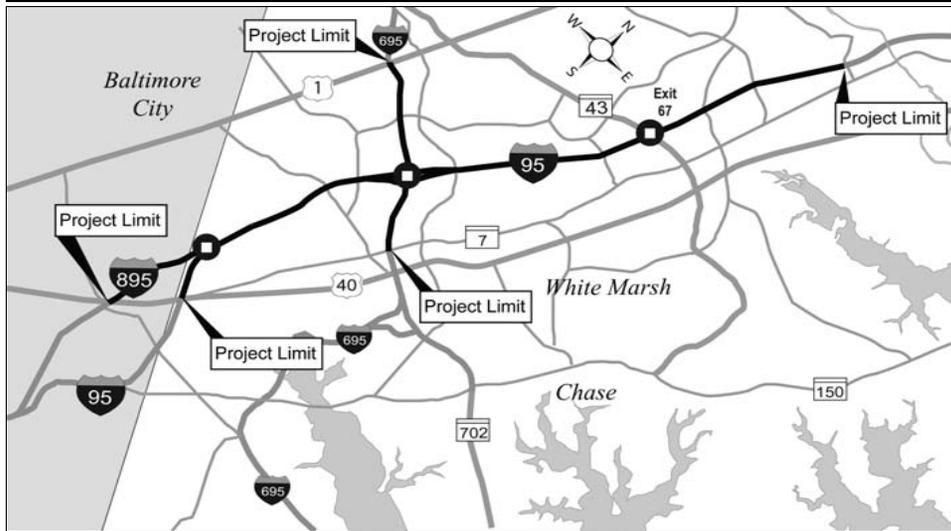
Maryland
Transportation
Authority



MARYLAND TRANSPORTATION AUTHORITY

**MARYLAND TRANSPORTATION AUTHORITY
CAPITAL PROGRAM SUMMARY
(\$ MILLIONS)**

	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>SIX-YEAR TOTAL</u>
<u>Construction Program</u>							
Major Projects	225.4	223.4	201.2	158.6	59.2	1.8	869.6
System Preservation Minor Projects	91.9	163.6	240.2	156.0	184.0	241.5	1,077.2
<u>Development & Evaluation Program</u>	<u>13.6</u>	<u>9.3</u>	<u>9.3</u>	<u>9.6</u>	<u>7.3</u>	<u>-</u>	<u>49.2</u>
TOTAL	331.0	396.3	450.7	324.2	250.5	243.3	1,996.0



PROJECT: I-95 John F. Kennedy Memorial Highway - Express Toll Lanes (ETL)

DESCRIPTION: Constructed two Express Toll Lanes in each direction from I-895 North to north of MD 43 (8.0 miles) and improved the interchanges with I-895, I-695 and MD 43. (BRAC related.)

PURPOSE & NEED SUMMARY STATEMENT: The Express Toll Lanes have helped to reduce peak period congestion on I-95 between White Marsh and the I-95/I-895 split that occurs during morning and afternoon rush hours, weekends, holidays, incidents and other peak periods. Prior to the opening of the Express Toll Lanes, this segment of I-95 was the most congested section of I-95 in Maryland north of Baltimore City. I-95 is the backbone of the east coast's transportation network and is essential to the movement of people and freight.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|--|---|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

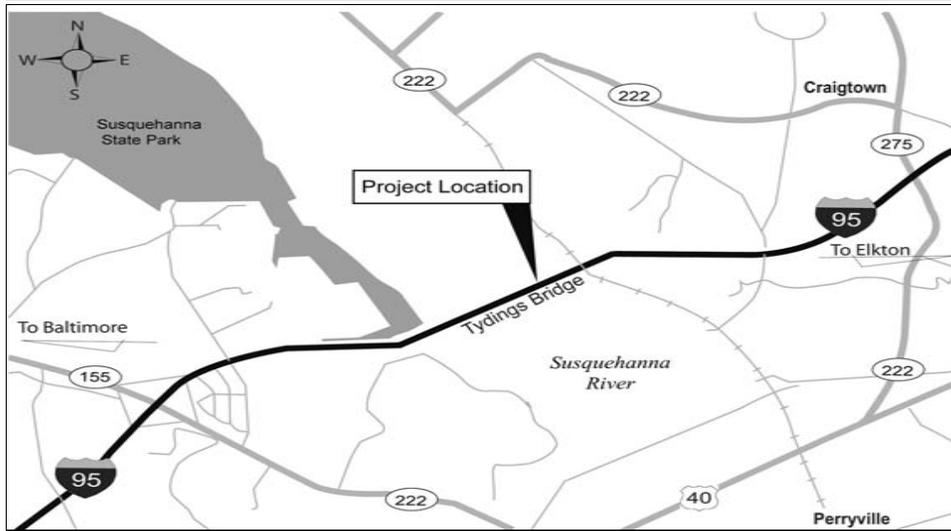
ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: The reconstruction of three interchanges and the addition of the Express Toll Lanes have helped reduce peak period congestion on I-95 between White Marsh and the I-95/I-895 split.

STATUS: The Express Toll Lanes are open to service. Improvements to the I-95/I-695 interchange are underway.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	TOTAL EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	6,032	6,032	0	0	0	0	0	0	0	0	
Engineering	119,732	119,732	0	0	0	0	0	0	0	0	
Right-of-way	47,507	47,361	146	0	0	0	0	0	146	0	
Construction	924,448	875,204	49,244	0	0	0	0	0	49,244	0	
Total	1,097,719	1,048,329	49,390	0	0	0	0	0	49,390	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



PROJECT: I-95 John F. Kennedy Memorial Highway - Clean and Zone Paint the Tydings Bridge

DESCRIPTION: Clean and paint rusted seams and crevices and paint the flat surfaces of the Tydings Bridge where the paint is showing wear. Also, perform necessary structural repairs.

PURPOSE & NEED SUMMARY STATEMENT: Paint throughout the bridge is showing wear. This project will address existing wear and prevent further wear.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

ASSOCIATED IMPROVEMENTS:

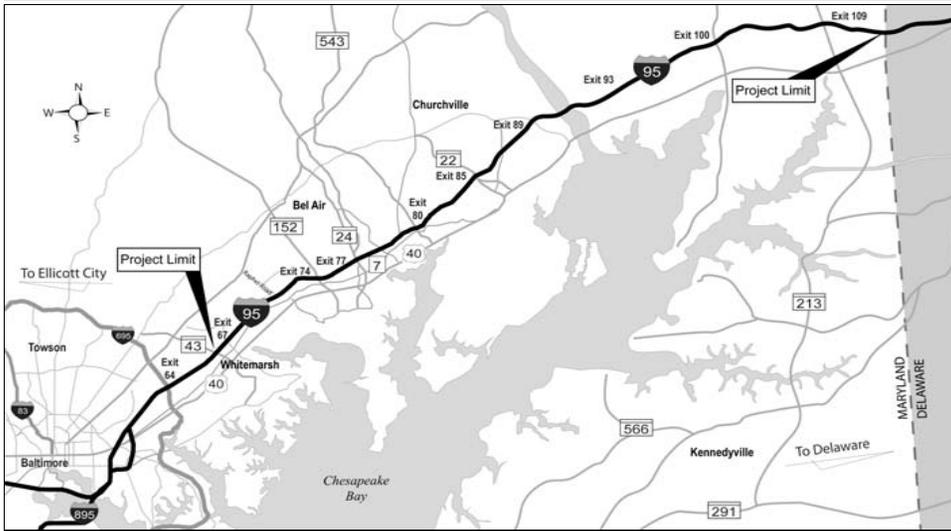
I-95 John F. Kennedy Memorial Highway - Resurfacing - Construction Program (Line 3)

EXPLANATION: This project will bring uniformity to the paint system and extend the life of the existing system by ten years.

STATUS: Engineering is complete. Construction is underway.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER								
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY					
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	199	199	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	10,383	9,129	1,254	0	0	0	0	0	1,254	0
Total	10,582	9,328	1,254	0	0	0	0	0	1,254	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: I-95 John F. Kennedy Memorial Highway - Resurfacing

DESCRIPTION: Resurface I-95 northbound and southbound from MD 43 to the Maryland/Delaware state line. Phase I is from MD 43 to MD 24. Phase II is from MD 24 to the Tydings Bridge. Phase III is from the Tydings Bridge to the Maryland/Delaware state line.

PURPOSE & NEED SUMMARY STATEMENT: The I-95 roadway north of MD 43 is in need of resurfacing. Only Phases I and II are funded for construction at this time. Phase III is funded for engineering only.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

EXPLANATION: The I-95 roadway is in need of resurfacing from MD 43 to the Maryland/Delaware state line (northbound and southbound).

ASSOCIATED IMPROVEMENTS:

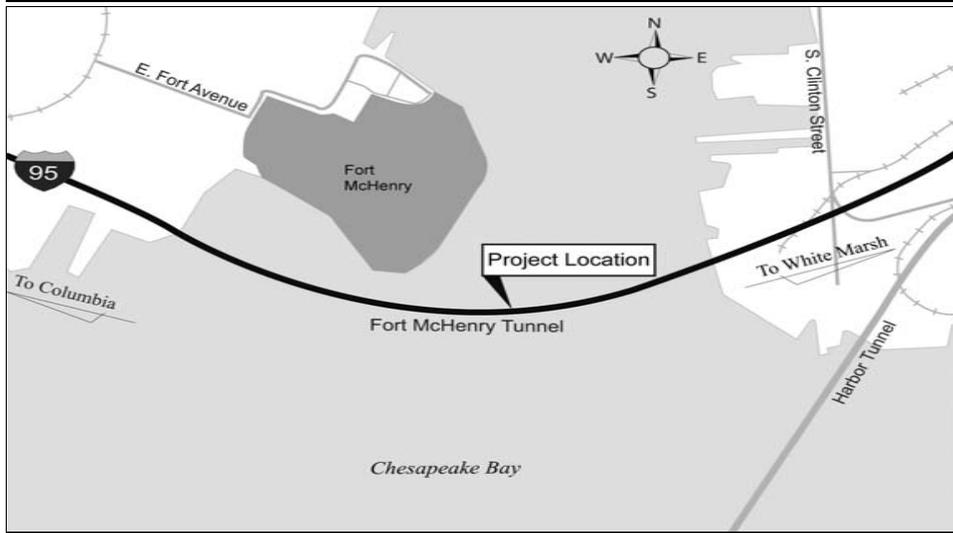
I-95 John F. Kennedy Memorial Highway - Clean and Zone Paint the Tydings Bridge - Construction Program (Line 2)

STATUS: Construction of Phase I is complete. Engineering is complete and construction is underway for Phase II. Engineering for Phase III is underway.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER								
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	378	378	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	31,186	30,020	1,166	0	0	0	0	0	1,166	0
Total	31,564	30,398	1,166	0	0	0	0	0	1,166	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

2261, 2312, 2393, 2394



PROJECT: I-95 Fort McHenry Tunnel - Rehabilitate Concrete Tunnel Deck

DESCRIPTION: Rehabilitate the tunnel deck for all four bores.

PURPOSE & NEED SUMMARY STATEMENT: The bottom of the tunnel deck is showing signs of wear throughout the length of the tunnel. This improvement will significantly increase the useful life of the tunnel deck.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: The tunnel deck shows signs of wear. This improvement will extend the useful life of the tunnel deck.

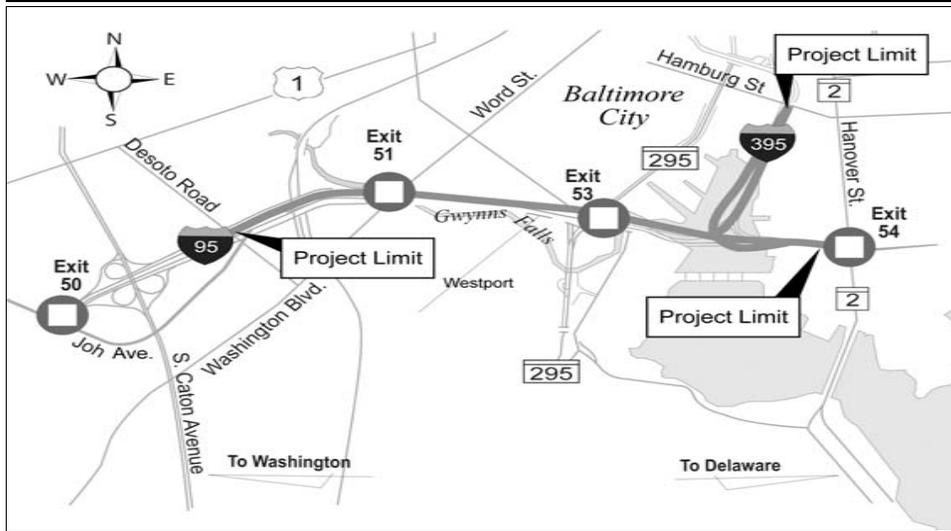
ASSOCIATED IMPROVEMENTS:

- I-95/I-395 Fort McHenry Tunnel - Rehabilitate Decks, Repair Superstructure, Replace Joints, Zone Paint and Other Misc. Repairs - Construction Program (Line 5)
- I-95 Fort McHenry Tunnel - Replace Tunnel Lighting Systems - Construction Program (Line 7)
- I-95 Fort McHenry Tunnel - Rehabilitate Vent Fans - Construction Program (Line 8)

STATUS: Engineering is complete. Construction is underway.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	778	778	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	35,660	32,224	3,436	0	0	0	0	0	3,436	0
Total	36,438	33,002	3,436	0	0	0	0	0	3,436	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: I-95/I-395 Fort McHenry Tunnel - Rehab Decks, Repair Superstructure, Replace Joints, Zone Paint and Other Misc. Repairs

DESCRIPTION: Rehabilitate decks, repair superstructure, replace joints, add drainage troughs and paint fifty-one bridges north and south of the Fort McHenry Tunnel.

PURPOSE & NEED SUMMARY STATEMENT: The decks exhibit varying degrees of deterioration. Superstructure and paint exhibit various degrees of wear. This improvement will correct current wear and extend the useful life of the decks and superstructure. The joints are near the end of their useful life and need to be replaced.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: Repairs are needed to correct current wear and to prevent further wear of the decks, superstructure and paint. The joints are nearing the end of their useful life and need to be replaced.

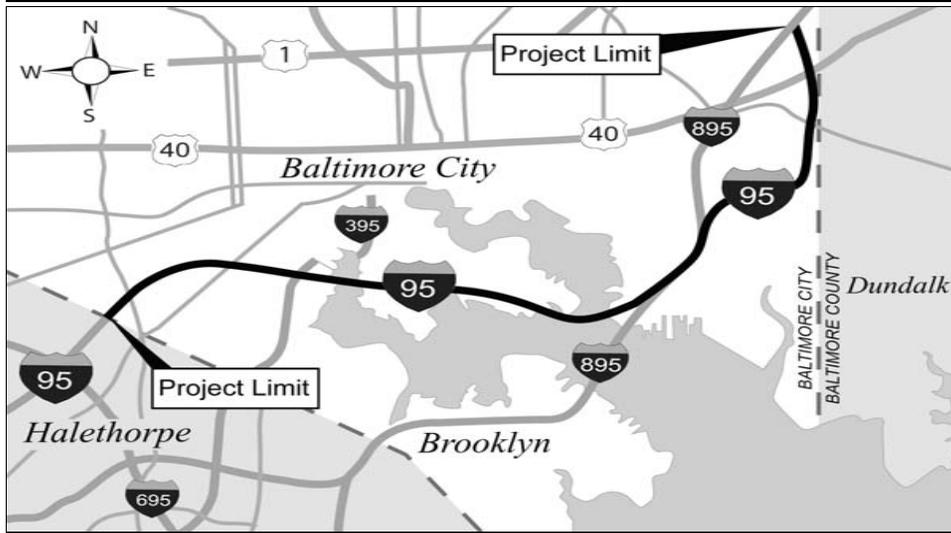
ASSOCIATED IMPROVEMENTS:

- I-95 Fort McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 4)
- I-95 Fort McHenry Tunnel - Replace Tunnel Lighting Systems - Construction Program (Line 7)
- I-95 Fort McHenry Tunnel - Rehabilitate Vent Fans - Construction Program (Line 8)

STATUS: Engineering is complete. Construction is underway.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER								
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY					
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	8,038	8,038	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	89,617	88,111	1,506	0	0	0	0	0	1,506	0
Total	97,655	96,149	1,506	0	0	0	0	0	1,506	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Cost increased by \$3.7 million for additional construction management inspection (CMI), completion incentive, and red line revisions to address priority defects found during recent structural inspections.



PROJECT: I-95 Fort McHenry Tunnel - Replace Weathering Steel High Mast Light Poles North and South of the Tunnel

DESCRIPTION: Replace all weathering steel high mast light poles with galvanized steel poles on I-95 in Baltimore City, north and south of the Fort McHenry Tunnel. Also, replace foundations and associated conduits/controls. Most of these weathering steel poles represent the original lighting structures when the facility was first built in 1985.

PURPOSE & NEED SUMMARY STATEMENT: The weathering steel high mast light poles were part of the original construction in 1985 and are nearing the end of their useful life. They will be replaced with galvanized steel poles that have a longer life expectancy.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

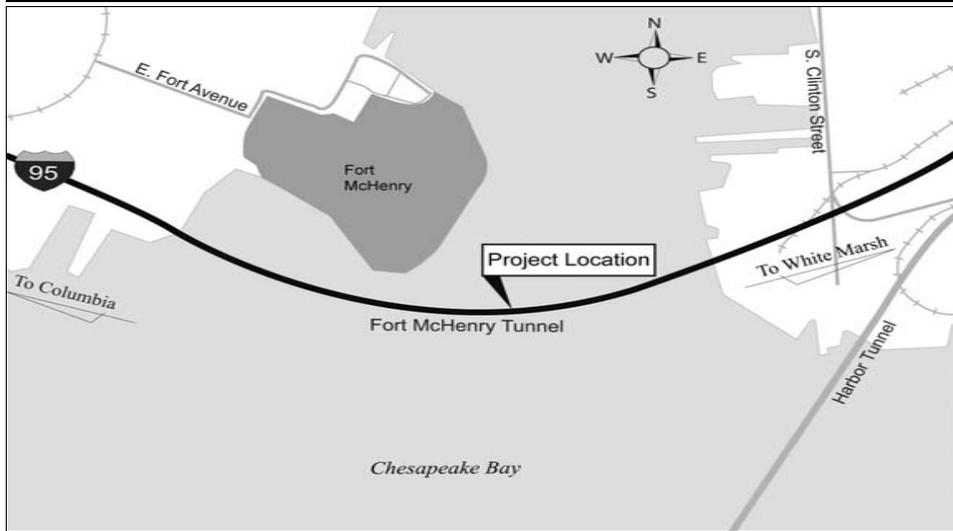
ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: The weathering steel high mast light poles were part of the original construction in 1985 and are nearing the end of their useful life. They will be replaced with galvanized steel poles that have a longer life expectancy.

STATUS: Engineering is complete. Construction is underway.

POTENTIAL FUNDING SOURCE:										
<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY					
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	1,086	1,086	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	16,175	7,019	9,156	0	0	0	0	0	9,156	0
Total	17,261	8,105	9,156	0	0	0	0	0	9,156	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: I-95 Fort McHenry Tunnel - Replace Tunnel Lighting Systems

DESCRIPTION: Replace the Fort McHenry Tunnel lighting system.

PURPOSE & NEED SUMMARY STATEMENT: The lights throughout this tunnel are an integral part of the tunnel system. The lighting system, which is approaching the end of its useful life, needs to be replaced.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

EXPLANATION: Old and/or inadequate lighting will be replaced throughout the Fort McHenry Tunnel, which will enhance safety for both workers and drivers.

ASSOCIATED IMPROVEMENTS:

- I-95 Fort McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 4)
- I-95/I-395 Fort McHenry Tunnel - Rehabilitate Decks, Repair Superstructure, Replace Joints, Zone Paint and Other Misc. Repairs - Construction Program (Line 5)
- I-95 Fort McHenry Tunnel - Rehabilitate Vent Fans - Construction Program (Line 8)

STATUS: Engineering is underway. Construction is scheduled to begin in FY 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE:										
<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	1,634	1,634	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	38,441	30	20,000	18,411	0	0	0	0	38,411	0
Total	40,075	1,664	20,000	18,411	0	0	0	0	38,411	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: I-95 Fort McHenry Tunnel - Rehabilitate Vent Fans

DESCRIPTION: Rehabilitate forty-eight ventilation fans in the East and West Ventilation Buildings.

PURPOSE & NEED SUMMARY STATEMENT: The ventilation system is an integral part of the Fort McHenry Tunnel. Rehabilitating the fans and their components will improve the operational reliability of the the existing fans and extend the service life of the ventilation system in the tunnel.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

ASSOCIATED IMPROVEMENTS:

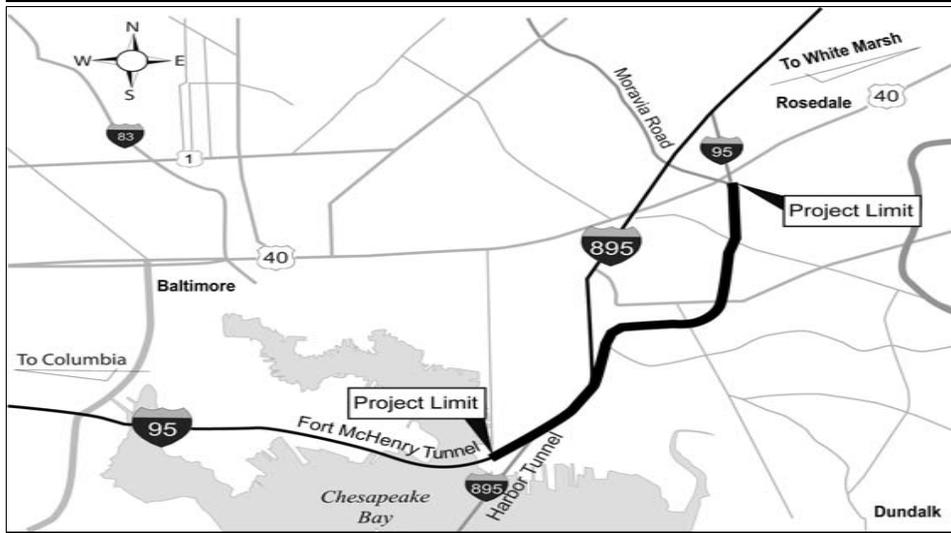
- I-95 Fort McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 4)
- I-95/I-395 Fort McHenry Tunnel - Rehabilitate Decks, Repair Superstructure, Replace Joints, Zone Paint and Other Misc. Repairs - Construction Program (Line 5)
- I-95 Fort McHenry Tunnel - Replace Tunnel Lighting Systems - Construction Program (Line 7)

EXPLANATION: Rehabilitating the fans will extend the useful life of the existing ventilation system.

STATUS: Engineering is underway. Construction is scheduled to begin in FY 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Added to the Construction Program.

PHASE	POTENTIAL FUNDING SOURCE:									
	<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER									
	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
				.....2019.....	.....2020.....	.....2021.....	.....2022.....			
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,149	744	936	281	188	0	0	0	1,405	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	34,245	0	17,358	8,708	8,179	0	0	0	34,245	0
Total	36,394	744	18,294	8,989	8,367	0	0	0	35,650	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: I-95 Fort McHenry Tunnel - Moravia Road to Tunnel Improvements

DESCRIPTION: This project will reconfigure I-95 to provide four continuous mainline lanes in each direction from north of the Fort McHenry Toll Plaza to the southern end of the I-95 ETL. The project involves restriping I-95 to provide one additional lane of traffic including reconstruction of at-grade shoulders; replacement of at-grade median concrete traffic barrier; and reconstruction of portions of existing bridge decks and all concrete bridge parapets.

PURPOSE & NEED SUMMARY STATEMENT: This project will provide lane continuity and additional capacity along I-95 between the Fort McHenry Tunnel and the I-95 ETL. This is needed to address existing congestion and to accommodate diverted traffic from I-895 that will result from MDTA's Canton Viaduct Project. It will also improve safety by providing higher roadside concrete traffic barriers and bridge parapets.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|--|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input checked="" type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: This project will provide southbound and northbound lane continuity from the southern limits of the ETL to the Fort McHenry Tunnel. This will improve traffic flow on this segment of I-95.

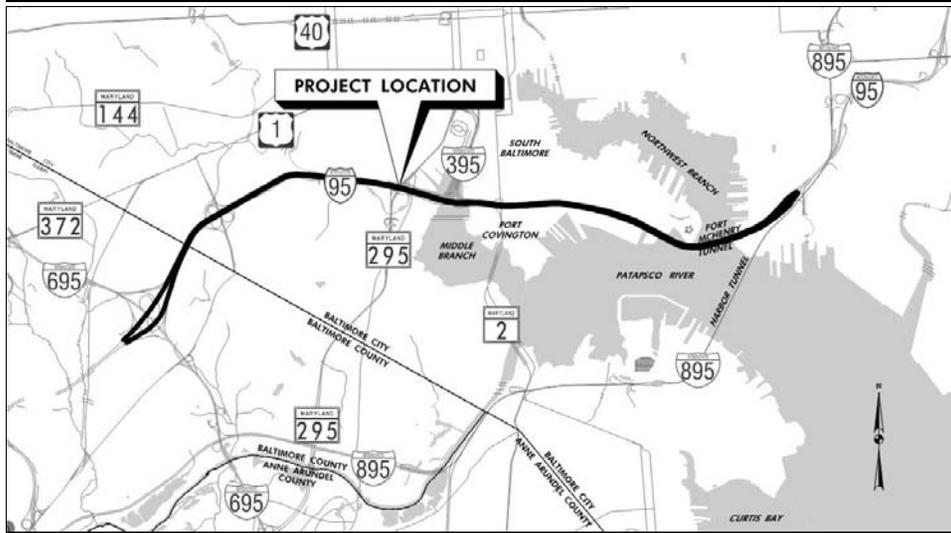
ASSOCIATED IMPROVEMENTS:

- I-95 Express Toll Lanes - Construction Program (Line 1)
- I-95 Fort McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 4)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 13)

STATUS: Phase 1 southbound is open to service. Planning is complete and engineering is underway for Phase 1 northbound and Phase 2 northbound and southbound. Construction is to begin in early 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Added to the Construction Program.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	555	555	0	0	0	0	0	0	0	0	
Engineering	4,755	2,893	1,625	237	0	0	0	0	1,862	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	60,874	13,022	2,041	27,214	18,597	0	0	0	47,852	0	
Total	66,184	16,470	3,666	27,451	18,597	0	0	0	49,714	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



PROJECT: I-95 Fort McHenry Tunnel - Port Covington I-95 Access

DESCRIPTION: This project includes a comprehensive evaluation of potential improvements along I-95 required to support major planned development on the Port Covington Peninsula located in Baltimore City. Improvements being evaluated include potential changes to the I-95 mainline and ramps between the I-695 interchange and Fort McHenry Toll Plaza.

PURPOSE & NEED SUMMARY STATEMENT: Planning is underway. Construction schedule to be determined. Planning funding shown is for MDTA's oversight of the planning phase. Planning and Engineering are being funded by private developer. Construction funding shown is MDTA's match for the FASTLANE Grant application and is contingent upon the award of the grant. The initial grant application was unsuccessful and MDTA plans to reapply in the next round.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|--|---|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input type="checkbox"/> System Preservation | <input checked="" type="checkbox"/> Community Vitality |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

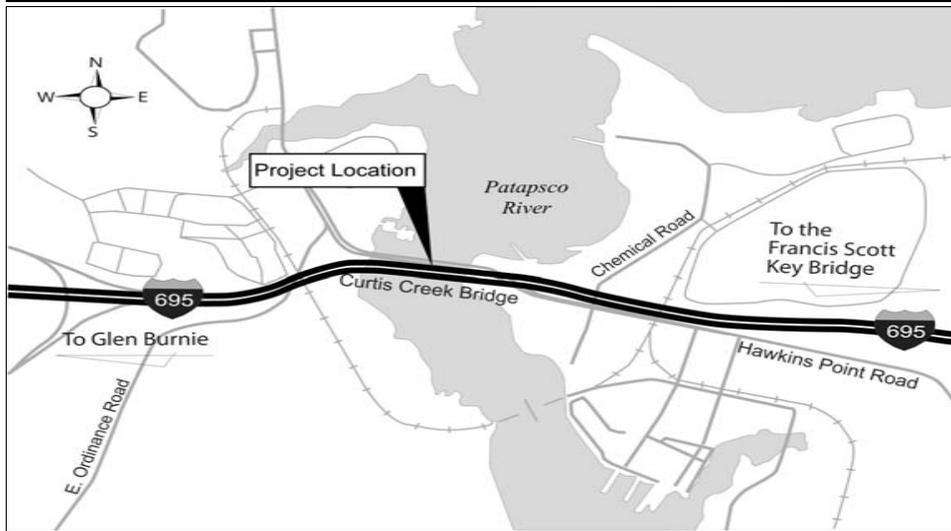
ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: This study will identify preferred infrastructure improvements to support the full development potential of a large area of underutilized land in Baltimore City while maintaining the functionality of the regional transportation system.

STATUS: Planning is underway. Construction schedule to be determined. Planning funding shown is for MDTA's oversight of the planning phase. Planning and Engineering are being funded by private developer. Construction funding shown is MDTA's match for FASTLANE Grant application and is contingent upon the award of the grant. The initial grant application was unsuccessful and MDTA plans to reapply in the next round.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Added to the Construction Program.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER									
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	400	0	400	0	0	0	0	0	400	0	
Engineering	0	0	0	0	0	0	0	0	0	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	33,000	0	0	11,000	11,000	11,000	0	0	33,000	0	
Total	33,400	0	400	11,000	11,000	11,000	0	0	33,400	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



PROJECT: MD 695 Francis Scott Key Bridge - Clean and Paint Approach Spans on Bridges over Curtis Creek

DESCRIPTION: Clean and paint the structural steel at the approach spans of the inner loop and outer loop bridges on MD 695 over Curtis Creek.

PURPOSE & NEED SUMMARY STATEMENT: Paint throughout the spans is deteriorating. These bridges have not been repainted since they were originally built, over 30 years ago. This improvement will address existing deterioration and prevent further deterioration.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

ASSOCIATED IMPROVEMENTS:

MD 695 Francis Scott Key Bridge - Rehabilitate Substructure and Superstructure of Various Bridges - Construction Program (Line 12)

EXPLANATION: Paint throughout the spans is deteriorating. This improvement will address existing deterioration and prevent further deterioration.

STATUS: Engineering is complete. Construction is underway.

POTENTIAL FUNDING SOURCE:										
<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY					
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	256	256	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	5,174	4,326	848	0	0	0	0	0	848	0
Total	5,430	4,582	848	0	0	0	0	0	848	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: MD 695 Francis Scott Key Bridge - Rehabilitate Substructure and Superstructure of Various Bridges

DESCRIPTION: Perform substructure and superstructure rehabilitation at twenty bridges on MD 695 in Baltimore County, Anne Arundel County, and Baltimore City. The work includes structural weld repairs; structural steel repairs; roadway joint repairs; concrete spall/delaminated areas repair; concrete crack repair; applying concrete protective coatings; slope protection repairs; substructure (jacketing of piers) repairs; and other miscellaneous items of work.

PURPOSE & NEED SUMMARY STATEMENT: The annual facility inspection as well as findings and issues noted by MDTA Operations have necessitated a project to perform a comprehensive substructure and superstructure rehabilitation at various bridges on MD 695 in Baltimore County, Anne Arundel County, and Baltimore City.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

ASSOCIATED IMPROVEMENTS:

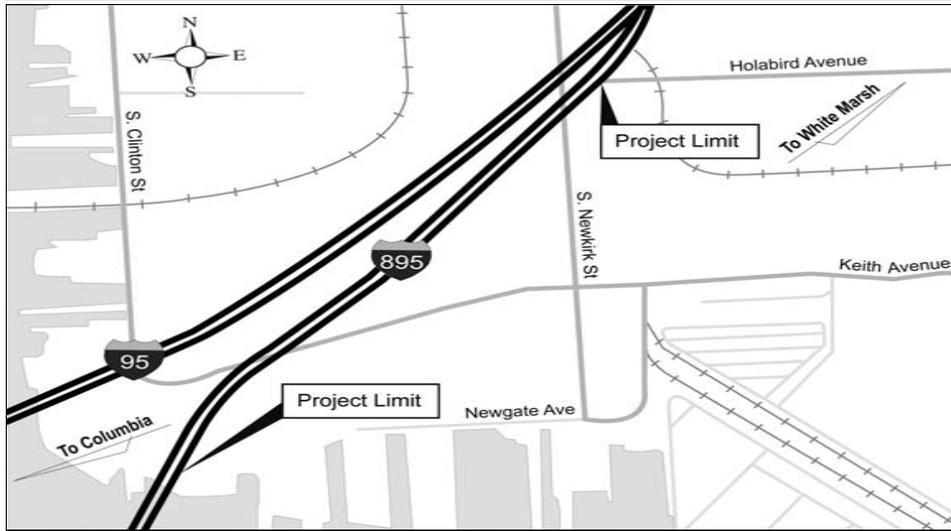
MD 695 Francis Scott Key Bridge - Clean and Paint Approach Spans on Bridges over Curtis Creek - Construction Program (Line 11)

EXPLANATION: Comprehensive substructure and superstructure rehabilitation at the twenty bridges identified in the annual inspection and by MDTA Operations will correct current wear and prevent further wear.

STATUS: Engineering is underway. Construction is scheduled to begin in FY 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Added to the Construction Program.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER								
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY					
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	750	725	25	0	0	0	0	0	25	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	17,141	0	1,000	8,000	8,141	0	0	0	17,141	0
Total	17,891	725	1,025	8,000	8,141	0	0	0	17,166	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct

DESCRIPTION: Replace the Canton Viaduct which is the elevated portion of the roadway from the north portal entrance to Holabird Avenue.

PURPOSE & NEED SUMMARY STATEMENT: The bridge deck on this structure has not been renovated since 1985. Testing has indicated that portions of the viaduct are nearing the end of their life cycle. The bridge deck, substructure and superstructure are experiencing various degrees of wear.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: The bridge deck, substructure and superstructure are experiencing various degrees of wear.

ASSOCIATED IMPROVEMENTS:

- I-95 Fort McHenry Tunnel - Moravia Road to Tunnel Improvements - Construction Program (Line 9)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Vent Fans - Construction Program (Line 14)
- I-895 BHT - Replace Deck and Superstructure of Bridge over Patapsco Flats - Constr. Prog. (Line 15)
- I-895 Baltimore Harbor Tunnel Thruway - Rehab Various Bridges - Construction Program (Line 17)

STATUS: Engineering and right-of-way are underway. Construction is scheduled to begin in FY 2018.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

PHASE	POTENTIAL FUNDING SOURCE:									
	<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER									
	TOTAL ESTIMATED COST (\$000)	TOTAL EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
				.....2019.....	.....2020.....	.....2021.....	.....2022.....			
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	20,107	15,077	1,125	1,325	860	860	860	0	5,030	0
Right-of-way	10,920	5,460	5,460	0	0	0	0	0	5,460	0
Construction	242,070	1,070	0	24,100	74,710	101,220	40,970	0	241,000	0
Total	273,097	21,607	6,585	25,425	75,570	102,080	41,830	0	251,490	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: I-895 Baltimore Harbor Tunnel Thruway - Replace Vent Fans

DESCRIPTION: Replace thirty-two ventilation fans located in the Canton and Fairfield Ventilation Buildings.

PURPOSE & NEED SUMMARY STATEMENT: The ventilation system is an integral part of the Baltimore Harbor Tunnel. The fans are nearing the end of their useful life and need to be replaced.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

ASSOCIATED IMPROVEMENTS:

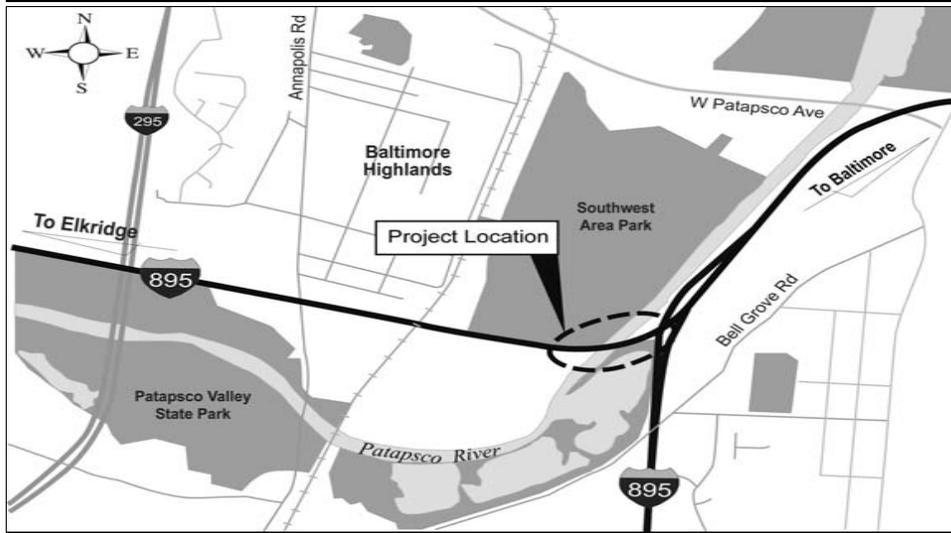
- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 13)
- I-895 BHT - Replace Deck and Superstructure of Bridge over Patapsco Flats - Constr. Prog. (Line 15)
- I-895 BHT - Rehab Standpipe & Sump Pump Systems - Construction Program (Line 16)
- I-895 Baltimore Harbor Tunnel Thruway - Rehab Various Bridges - Construction Program (Line 17)

EXPLANATION: Replacing the vent fans will extend the life of the existing ventilation system.

STATUS: Design is complete. Construction is scheduled to begin in FY 2017.

PHASE	POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER									
	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016			2017	20182019....2020....			....2021....	....2022....
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,846	2,846	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	60,800	0	14,757	20,239	20,239	5,565	0	0	60,800	0
Total	63,646	2,846	14,757	20,239	20,239	5,565	0	0	60,800	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: I-895 Baltimore Harbor Tunnel Thruway - Replace Deck and Superstructure of Bridge over Patapsco Flats

DESCRIPTION: Replace the deck and superstructure of the bridge over the Patapsco Flats.

PURPOSE & NEED SUMMARY STATEMENT: This project includes the replacement of the complete superstructure and deck. The concrete filled steel grid deck and steel superstructure are exhibiting signs of deterioration and warrant a complete superstructure replacement.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: Replacing the deck and superstructure will extend the life of the bridge by fifteen years.

ASSOCIATED IMPROVEMENTS:

- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 13)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Vent Fans - Construction Program (Line 14)
- I-895 BHT - Rehab Standpipe & Sump Pump Systems - Construction Program (Line 16)
- I-895 Baltimore Harbor Tunnel Thruway - Rehab Various Bridges - Construction Program (Line 17)

STATUS: Design is underway. Construction is scheduled to begin in FY 2017.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER		
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,165	2,165	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	66,515	35	17,000	21,506	21,506	6,468	0	0	66,480	0
Total	68,680	2,200	17,000	21,506	21,506	6,468	0	0	66,480	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: I-895 Harbor Tunnel Thruway - Rehabilitate Tunnel Standpipe and Sump Pump Systems

DESCRIPTION: The project is the rehabilitation of mechanical, electrical, and plumbing systems required to provide a code compliant standpipe system for fire protection in the tunnel. The existing sump pumps and supporting drain pipe network will be upgraded.

PURPOSE & NEED SUMMARY STATEMENT: The mechanical, electrical, and plumbing systems are reaching the end of their useful life and are in need of rehabilitation.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

EXPLANATION: A standpipe is a vertical pipe to which fire hoses can be connected. The project addresses aging mechanical, electrical, and plumbing systems required to provide a code compliant system of standpipes.

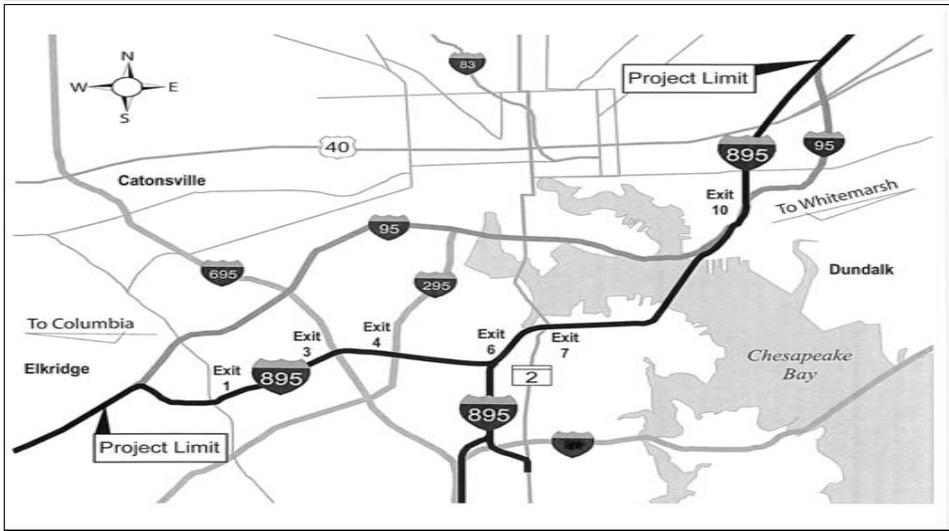
ASSOCIATED IMPROVEMENTS:

- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 13)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Vent Fans - Construction Program (Line 14)
- I-895 BHT - Replace Deck and Superstructure of Bridge over Patapsco Flats - Constr. Prog. (Line 15)
- I-895 Baltimore Harbor Tunnel Thruway - Rehab Various Bridges - Construction Program (Line 17)

STATUS: Engineering is complete. Construction is scheduled to begin in FY 2020.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

PHASE	POTENTIAL FUNDING SOURCE:									
	<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER									
	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
				.....2019.....	.....2020.....	.....2021.....	.....2022.....			
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	320	320	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	12,738	0	0	0	0	8,407	4,331	0	12,738	0
Total	13,058	320	0	0	0	8,407	4,331	0	12,738	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: I-895 Baltimore Harbor Tunnel Thruway - Rehabilitate Various Bridges

DESCRIPTION: Rehabilitate substructure and superstructure of various bridges on I-895 north and south of the Baltimore Harbor Tunnel including the Glen Burnie spur.

PURPOSE & NEED SUMMARY STATEMENT: The substructures and superstructures of the bridges are experiencing various degrees of wear. The improvements will considerably increase the useful life of these structures.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: The project will extend the life cycles and usefulness of the structures associated with this tunnel system.

ASSOCIATED IMPROVEMENTS:

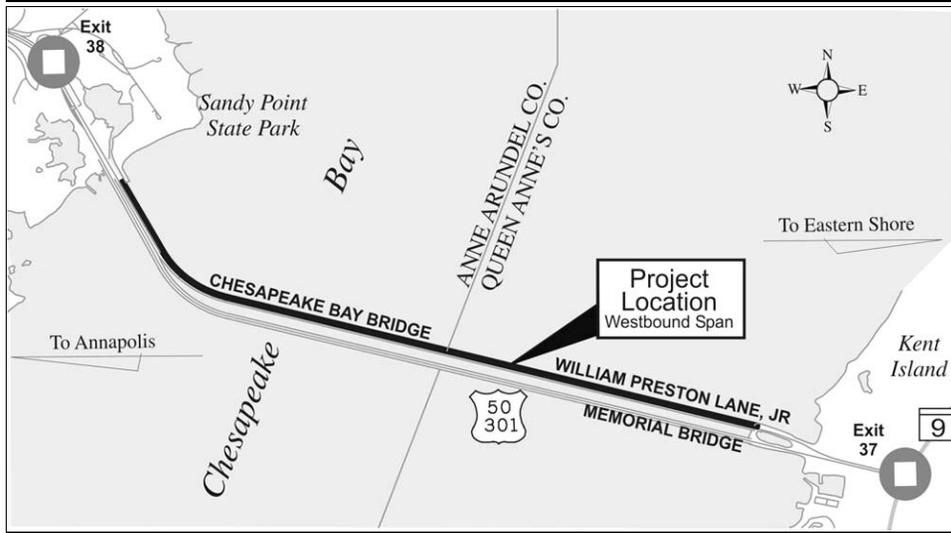
- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 13)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Vent Fans - Construction Program (Line 14)
- I-895 BHT - Replace Deck and Superstructure of Bridge over Patapsco Flats - Constr. Prog. (Line 15)
- I-895 BHT - Rehab Standpipe & Sump Pump Systems - Construction Program (Line 16)

STATUS: Engineering is underway. Construction is scheduled to begin in FY 2017.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input type="checkbox"/> OTHER			
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE	
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY			
Planning	0	0	0	0	0	0	0	0	0	0	0
Engineering	3,355	3,355	0	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	40,544	0	12,200	19,630	8,714	0	0	0	40,544	0	0
Total	43,899	3,355	12,200	19,630	8,714	0	0	0	40,544	0	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

2370, 2371, 2372



PROJECT: US 50/301 Bay Bridge - Clean and Paint Structural Steel Westbound Bridge

DESCRIPTION: Partial painting of all structural steel surfaces on the westbound bridge of approximately three million square feet including girder spans, deck trusses, overhead truss members and suspension spans. Phase I is painting the west girder spans. Phase II is cleaning and painting the suspension towers, spot painting the remainder of the suspension span and zone painting the deck truss spans. Phase III is cleaning and painting the deck truss spans and steel rail posts and rehabilitating the steel barrier. Phase IV is cleaning and painting the east girder and through truss spans.

PURPOSE & NEED SUMMARY STATEMENT: The bridge has not been fully painted since it opened in 1973. Limited spot painting has been done as needed. The paint is showing signs of wear. This improvement will protect the steel components of the bridge and extend the useful life.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: The paint is showing signs of wear. This improvement will address existing wear and extend the useful life of the steel components of the bridge.

ASSOCIATED IMPROVEMENTS:

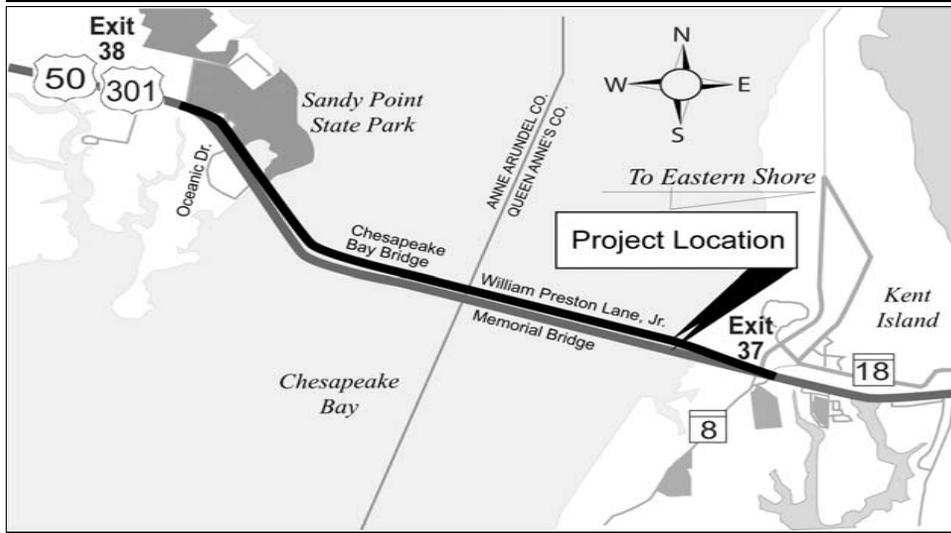
- US 50/301 Bay Bridge - Cable Rewrapping & Dehumidification - Construction Program (Line 19)
- US 50/301 Bay Bridge - Rehab Suspension Spans Westbound Bridge - Constr. Prog. (Line 20)
- US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Constr. Program (Line 21)

STATUS: Engineering is complete. Construction is complete for Phases I, II, and III. Phase IV construction is scheduled to begin in FY 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL		<input type="checkbox"/> FEDERAL		<input type="checkbox"/> GENERAL		<input checked="" type="checkbox"/> OTHER			
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	815	815	0	0	0	0	0	0	0	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	103,637	76,607	15,602	11,428	0	0	0	0	27,030	0	
Total	104,452	77,422	15,602	11,428	0	0	0	0	27,030	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	

0632, 2224, 2259, 2260



PROJECT: US 50/301 Bay Bridge - Cable Rewrapping and Dehumidification

DESCRIPTION: Rewrap and dehumidify the main cables and anchorages on both spans.

PURPOSE & NEED SUMMARY STATEMENT: The existing suspension cable wrapping is reaching the end of its useful life. This improvement will prevent cable corrosion.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: Cable wrapping is nearing the end of its useful life and needs to be replaced.

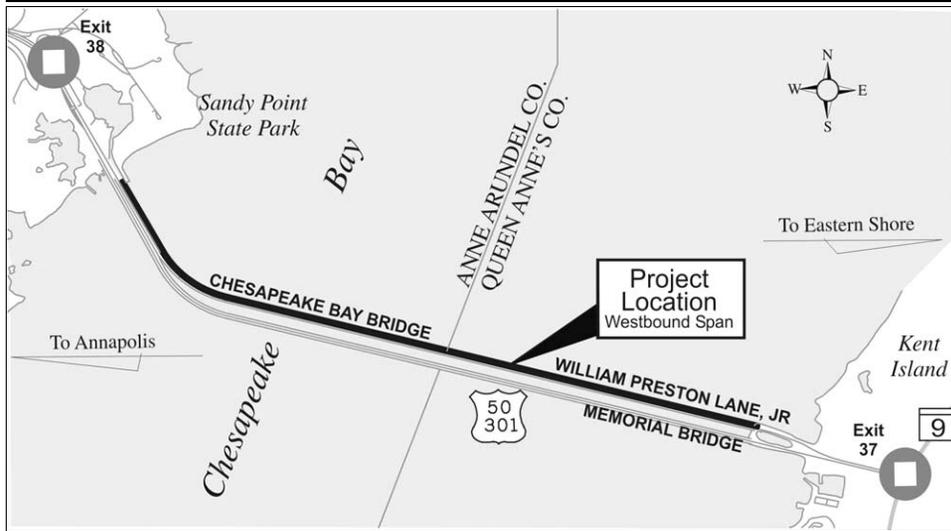
ASSOCIATED IMPROVEMENTS:

- US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 18)
- US 50/301 Bay Bridge - Rehab Suspension Spans Westbound Bridge - Constr. Prog. (Line 20)
- US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Constr. Program (Line 21)
- US 50/301 Bay Bridge - Rehab EB Bridge Deck - Development and Evaluation Program (Line 30)

STATUS: Engineering is complete. Construction is underway.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER								
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	3,230	3,230	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	57,213	56,398	815	0	0	0	0	0	815	0
Total	60,443	59,628	815	0	0	0	0	0	815	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: US 50/301 Bay Bridge - Rehabilitate Suspension Spans Westbound Bridge

DESCRIPTION: Rehabilitate the suspension spans on the westbound Bay Bridge, including work on the suspension cables, the bridge superstructure, substructure and bearings.

PURPOSE & NEED SUMMARY STATEMENT: The main suspension cable investigation of the westbound Chesapeake Bay Bridge found areas with varying degrees of wear. The installation of supplemental cables will maintain long-term serviceability of the suspension system. Additionally, signs of wear were found during the routine inspections of structural components of the suspended spans that will be repaired to extend the useful life of the components.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: The installation of supplemental cables will maintain long-term serviceability of the suspension system. Repairs to areas showing signs of wear will extend the useful life of the components.

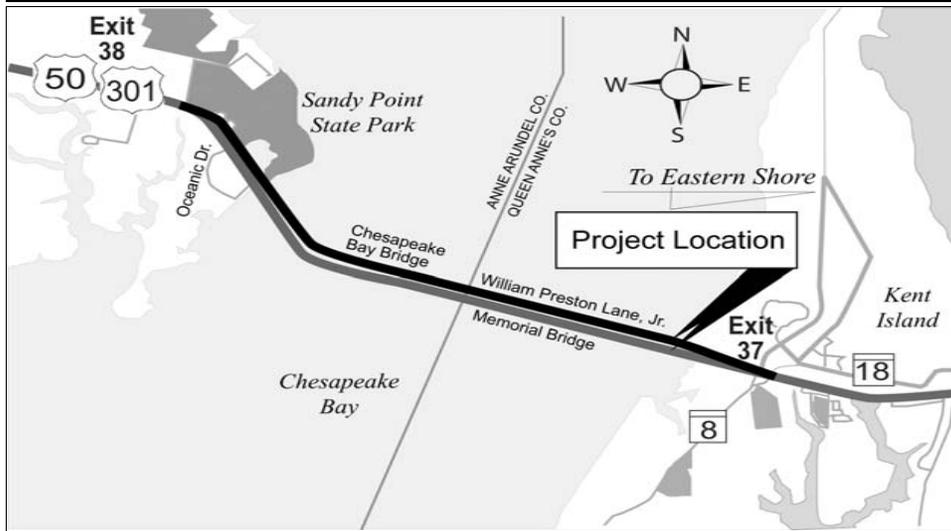
ASSOCIATED IMPROVEMENTS:

- US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 18)
- US 50/301 Bay Bridge - Cable Rewrapping & Dehumidification - Construction Program (Line 19)
- US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Constr. Program (Line 21)

STATUS: Engineering and construction are underway.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY					
					.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	3,200	2,495	600	105	0	0	0	0	705	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	34,839	2,057	18,500	14,282	0	0	0	0	32,782	0
Total	38,039	4,552	19,100	14,387	0	0	0	0	33,487	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Cost decreased by \$9.2 million to reflect actual bid price.



PROJECT: US 50/301 Bay Bridge - Structural Repairs and Miscellaneous Modifications

DESCRIPTION: This project includes structural concrete and steel repairs to eastbound and westbound Bay Bridges. Bid specific work addresses priority repairs with an emphasis on minimizing lane closures with the use of rigging and barge access.

PURPOSE & NEED SUMMARY STATEMENT: The routine inspections of the eastbound and westbound Bay Bridges found areas of the structural steel, concrete, and deck joints with signs of wear. Repairs to these components will extend the useful life of the components.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

EXPLANATION: This project will repair areas of wear and extend the useful life of the components.

ASSOCIATED IMPROVEMENTS:

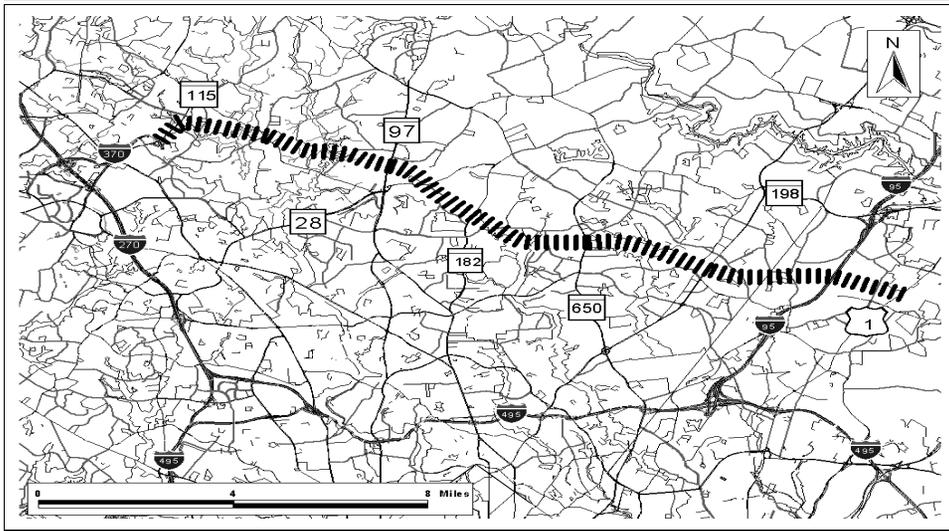
- US 50/301 Bay Bridge - Clean and Paint Structural Steel WB Bridge - Constr. Program (Line 18)
- US 50/301 Bay Bridge - Cable Rewrapping & Dehumidification - Construction Program (Line 19)
- US 50/301 Bay Bridge - Rehab Suspension Spans Westbound Bridge - Constr. Prog. (Line 20)
- US 50/301 Bay Bridge - Rehab EB Bridge Deck - Development and Evaluation Program (Line 30)

STATUS: Engineering and construction are underway.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,800	2,484	316	0	0	0	0	0	316	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	48,036	13,506	5,374	10,705	10,041	8,410	0	0	34,530	0
Total	50,836	15,990	5,690	10,705	10,041	8,410	0	0	34,846	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

2349, 2412

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Cost increased by \$33.1 million for increase in scope to address recent inspection findings.



PROJECT: MD 200, InterCounty Connector

DESCRIPTION: Constructed a new east-west, multi-modal highway in Montgomery and Prince George's counties between I-270 and I-95/US 1.

PURPOSE & NEED SUMMARY STATEMENT: This transportation project was needed to increase community mobility and safety; to support development and local land use plans; to improve access between economic growth centers; to advance homeland security measures; and to help restore the natural, human and cultural environments from past development impacts in the project area.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Safety & Security | <input checked="" type="checkbox"/> Environmental Stewardship |
| <input type="checkbox"/> System Preservation | <input checked="" type="checkbox"/> Community Vitality |
| <input checked="" type="checkbox"/> Quality of Service | <input checked="" type="checkbox"/> Economic Prosperity |

EXPLANATION: The project increases community mobility and safety; supports development and local land use plans; improves access between economic growth centers; advances homeland security measures; and helps restore the natural, human and cultural environments from past development impacts in the project area.

ASSOCIATED IMPROVEMENTS:

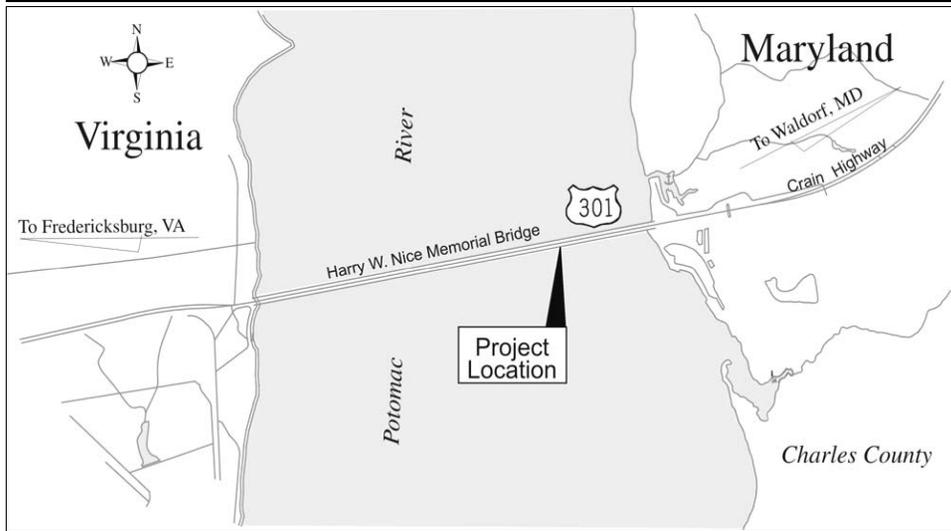
- US 29 Interchanges (Lines 10, 11 Montgomery County - SHA)
- MD 28/MD 198, MD 97 to I-95 (Line 12, Montgomery County - SHA)
- I-95/Contee Road Interchange (Line 1, Prince George's County - SHA)
- MD 201 Extended/US 1, I-95/I-495 to N. of Muirkirk Road (Line 21, Prince George's County - SHA)

STATUS: The facility is open to service. Final construction elements and environmental mitigation and stewardship projects are underway.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL	<input checked="" type="checkbox"/> FEDERAL	<input checked="" type="checkbox"/> GENERAL	<input checked="" type="checkbox"/> OTHER					SIX	BALANCE
PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				TOTAL	TO COMPLETE	
	ESTIMATED COST (\$000)	EXPEND THRU 2016			.....2019.....	.....2020.....	.....2021.....	.....2022.....		
Planning	28,889	28,889	0	0	0	0	0	0	0	0	
Engineering	75,181	75,181	0	0	0	0	0	0	0	0	
Right-of-way	246,000	246,000	0	0	0	0	0	0	0	0	
Construction	2,036,518	2,028,683	5,496	900	600	480	359	0	7,835	0	
Total	2,386,588	2,378,753	5,496	900	600	480	359	0	7,835	0	
Federal-Aid	19,270	19,270	0	0	0	0	0	0	0	0	

The Federal-Aid share of \$19.27 million is also included in SHA's portion of the CTP.



PROJECT: US 301 Harry W. Nice Memorial Bridge - Clean and Paint Structural Steel and Miscellaneous Structural Repairs

DESCRIPTION: Spot painted as required throughout the full length of the bridge and zone painted at locations of roadway joints. Repaired miscellaneous structural elements.

PURPOSE & NEED SUMMARY STATEMENT: Last zone paint completed was on the truss towers in 2002. Paint on many locations throughout the bridge had wear. This improvement extended the useful life of the structural steel.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- | | |
|---|--|
| <input type="checkbox"/> Safety & Security | <input type="checkbox"/> Environmental Stewardship |
| <input checked="" type="checkbox"/> System Preservation | <input type="checkbox"/> Community Vitality |
| <input type="checkbox"/> Quality of Service | <input type="checkbox"/> Economic Prosperity |

ASSOCIATED IMPROVEMENTS:

US 301 Harry W. Nice Memorial Bridge - Replace Nice Bridge - Development and Evaluation Program (Line 29)

EXPLANATION: Paint throughout the bridge had wear. This improvement addressed existing wear and is preventing further wear.

STATUS: Open to service.

PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE		
	ESTIMATED COST (\$000)	EXPEND THRU 2016			2017	20182019.....2020.....		2021.....2022.....
Planning	0	0	0	0	0	0	0	0	0	0		
Engineering	800	800	0	0	0	0	0	0	0	0		
Right-of-way	0	0	0	0	0	0	0	0	0	0		
Construction	12,386	12,386	0	0	0	0	0	0	0	0		
Total	13,186	13,186	0	0	0	0	0	0	0	0		
Federal-Aid	0	0	0	0	0	0	0	0	0	0		

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: Point Breeze - Renovate Building 2330

DESCRIPTION: Renovate Point Breeze Building 2330 to provide office space for the Authority Operations Center (AOC) and Tele-Communication Office (TCO) moving from the 5th floor of the Fort McHenry Tunnel East Vent Building.

PURPOSE & NEED SUMMARY STATEMENT: Renovations to the Point Breeze Building 2330 will provide essential operational space in a secured environment required for the Authority Operations Center (AOC) and Tele-Communication Office (TCO) - Dispatch Center supporting MDTA Police functions. Integrating the space to provide continuity between AOC and TCO - Dispatch Center will improve communication and efficiency.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: The Authority Operations Center (AOC) is the primary traffic and systems monitoring center for various MDTA facilities. The Tele-Communication Office (TCO) - Dispatch Center supporting MDTA Police functions works closely with AOC. Providing an integrated work space will allow maximum efficiency.

STATUS: Engineering is complete. Construction is scheduled to begin in FY 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016			FOR PLANNING PURPOSES ONLY2019....2020....2021....			.....2022....
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	764	764	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	10,495	0	8,500	1,995	0	0	0	0	10,495	0
Total	11,259	764	8,500	1,995	0	0	0	0	10,495	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: Authority-Wide - Install Security Systems and Video Surveillance at Major Bridges

DESCRIPTION: Installed electronic security systems and video surveillance at five major bridges.

PURPOSE & NEED SUMMARY STATEMENT: Installation of electronic security systems and video surveillance enhanced the safety and security at five major bridges.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: Installation of electronic security systems and video surveillance enhanced the safety and security at five major bridges.

STATUS: Open to service.

POTENTIAL FUNDING SOURCE: SPECIAL FEDERAL GENERAL OTHER

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016			2017	20182019.....2020.....			.....2021.....	.....2022.....
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	616	616	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	11,379	11,379	0	0	0	0	0	0	0	0
Total	11,995	11,995	0	0	0	0	0	0	0	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: Upgrade Truck Weigh Facilities at the Kennedy Highway, Bay Bridge and Hatem Bridge Locations

DESCRIPTION: Upgrade the existing truck weigh facilities in accordance with increased truck traffic.

PURPOSE & NEED SUMMARY STATEMENT: The truck weigh facilities will be upgraded to accommodate increased truck traffic by replacing the existing scales and installing newer technologies including Commercial Vehicles Information Systems and Networks (CVISN) and CHART. This project will improve the efficiency and effectiveness of commercial vehicle safety programs.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: The truck weigh facilities will be upgraded to accommodate increased truck traffic by replacing the existing scales and installing newer technologies including Commercial Vehicles Information Systems and Networks (CVISN) and CHART. This project will improve the efficiency and effectiveness of commercial vehicle safety programs.

STATUS: Engineering is complete. Construction is underway.

<u>POTENTIAL FUNDING SOURCE:</u> <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016			FOR PLANNING PURPOSES ONLY2019....2020....2021....			.....2022....
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	566	566	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	13,851	10,105	3,746	0	0	0	0	0	3,746	0
Total	14,417	10,671	3,746	0	0	0	0	0	3,746	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.



PROJECT: Authority-Wide - Replace Electronic Toll Collection and Operating System - 3rd Generation

DESCRIPTION: The project will develop the framework and consequential contracts for the 3rd generation toll system. The project's contracts will replace the Electronic Toll Collection Next Generation (ETCNG) contracts currently deployed. Project is a multiyear project with major phases including a design/build phase, integration, testing and transition and an operations phase that may be 5-10 years depending on final project plan development.

PURPOSE & NEED SUMMARY STATEMENT: This project will update the Electronic Toll Collection hardware and Operating System software and increase the capacity for handling video tolling and citations.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: This project will update the Electronic Toll Collection hardware and Operating System software and increase the capacity for handling video tolling and citations.

STATUS: Engineering is underway. Construction is scheduled to begin in FY 2018.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016			2017	20182019....2020....			....2021....	....2022....
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	8,500	3,063	850	850	850	850	580	580	4,560	877
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	70,000	930	0	15,290	15,290	15,290	12,100	1,180	59,150	9,920
Total	78,500	3,993	850	16,140	16,140	16,140	12,680	1,760	63,710	10,797
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: Remove, Replace, and Upgrade Sign Structures - Northern Region

DESCRIPTION: Update and replace sign structures along the John F. Kennedy Memorial Highway and the Thomas J. Hatem Memorial Bridge.

PURPOSE & NEED SUMMARY STATEMENT: Existing sign structures date from the early 1980's and are approaching the end of their useful life.

STATE GOALS : Maryland Transportation Plan (MTP) Goals/Selection Criteria:

- Safety & Security
- System Preservation
- Quality of Service
- Environmental Stewardship
- Community Vitality
- Economic Prosperity

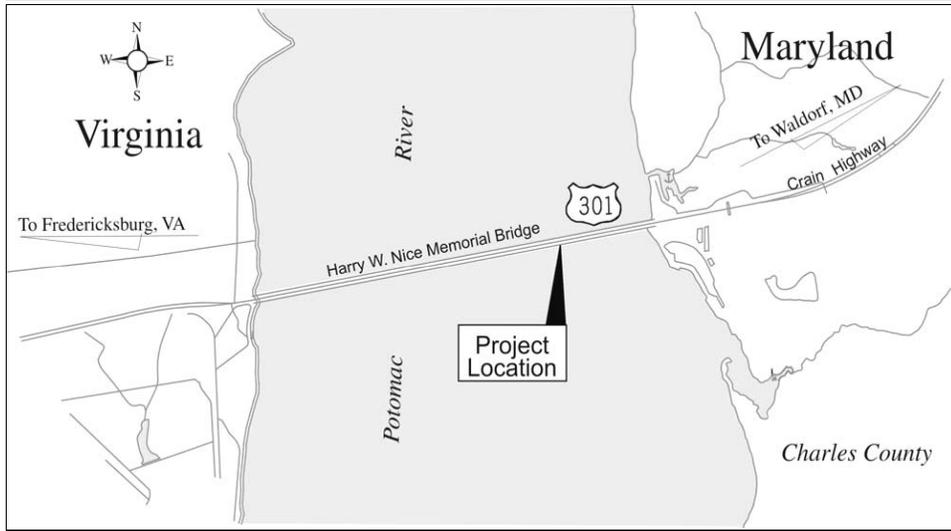
ASSOCIATED IMPROVEMENTS: None.

EXPLANATION: Aging sign structures along the John F. Kennedy Memorial Highway and the Thomas J. Hatem Memorial Bridge will be updated or replaced.

STATUS: Engineering is complete. Construction is scheduled to begin in FY 2017.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Cost decreased by \$5.6 million based on refined cost estimate.

POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	600	600	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	14,455	0	4,961	7,206	2,288	0	0	0	14,455	0
Total	15,055	600	4,961	7,206	2,288	0	0	0	14,455	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: US 301 Harry W. Nice Memorial Bridge - Replace Nice Bridge

DESCRIPTION: Preliminary engineering and right-of-way acquisition for the replacement of the current bridge with a new 4-lane bridge.

JUSTIFICATION: The existing bridge does not meet current standards, i.e., narrow lanes, lack of shoulders, and steep grades with lack of truck climbing lanes. The existing bridge during peak periods is reaching capacity. Traffic is projected to increase by 45 percent on weekdays and 33 percent on weekends by 2025.

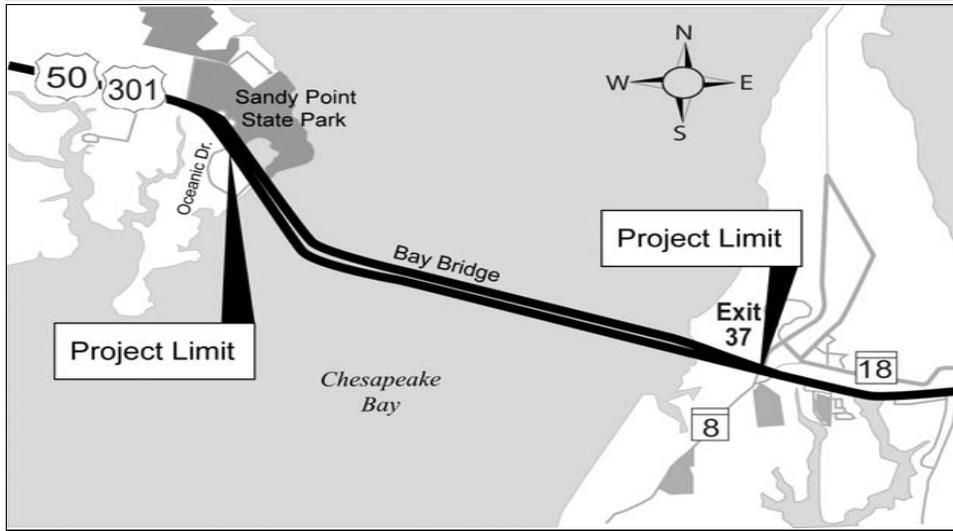
ASSOCIATED IMPROVEMENTS:

US 301 Harry W. Nice Memorial Bridge - Clean and Paint Structural Steel and Miscellaneous Structural Repairs - Construction Program (Line 23)

STATUS: Planning is complete. Engineering and right-of-way acquisition are underway.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE: <input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL ESTIMATED EXPEND		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	COST (\$000)	THRU 2016			2017	20182019.....2020.....			.....2021.....	.....2022.....
Planning	5,295	5,295	0	0	0	0	0	0	0	0
Engineering	44,605	14,850	8,000	3,000	6,000	7,600	5,155	0	29,755	0
Right-of-way	11,700	750	2,100	1,825	2,825	2,025	2,175	0	10,950	0
Construction	0	0	0	0	0	0	0	0	0	0
Total	61,600	20,895	10,100	4,825	8,825	9,625	7,330	0	40,705	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: US 50/301 Bay Bridge - Rehabilitate Eastbound Bridge Deck

DESCRIPTION: Preliminary engineering for the rehabilitation and/or replacement of the eastbound bridge deck.

JUSTIFICATION: The eastbound deck is exhibiting various degrees of deterioration as it was last replaced in 1985. Industry standards indicate that the deck is nearing the end of its life cycle.

ASSOCIATED IMPROVEMENTS:

- US 50/301 Bay Bridge - Cable Rewrapping & Dehumidification - Construction Program (Line 19)
- US 50/301 Bay Bridge - Structural Repairs and Misc. Modifications - Constr. Program (Line 21)

STATUS: Engineering is underway.

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: None.

POTENTIAL FUNDING SOURCE:										
<input type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER										
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016	CURRENT YEAR 2017	BUDGET YEAR 2018	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	10,700	2,195	3,500	4,505	500	0	0	0	8,505	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0
Total	10,700	2,195	3,500	4,505	500	0	0	0	8,505	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: US 50/301 Bay Bridge - Tier I NEPA Study

DESCRIPTION: Complete traffic, engineering, and environmental analyses. Fully engage regulatory agencies, elected officials, and public. Develop cost per mile estimates. Evaluate alternative project delivery approaches and develop preliminary financial plan. Prepare economic and land use study. This study is financed in the MDTA Operating budget.

JUSTIFICATION: This purpose of this study is to evaluate the feasibility of alternative project delivery approaches and to select a preferred alternative. In the course of this study MDTA will solicit input from elected officials, regulatory agencies and multiple stakeholders which will help gain consensus on the approach and allow MDTA to quickly move into Tier II NEPA. It will include detailed technical analyses for the chosen location and would secure formal agency agreement on the NEPA preview process and on the proposed Purpose and Need.

ASSOCIATED IMPROVEMENTS: None

STATUS: Planning will begin in FY 2017

POTENTIAL FUNDING SOURCE: SPECIAL FEDERAL GENERAL OTHER

SIGNIFICANT CHANGE FROM FY 2016 - 21 CTP: Added to the Development and Evaluation Program.

PHASE	TOTAL		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2016			2017	20182019....2020....			....2021....	....2022....
Planning	5,000	0	500	1,000	1,500	1,500	500	0	5,000	0
Engineering	0	0	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0
Total	5,000	0	500	1,000	1,500	1,500	500	0	5,000	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND TRANSPORTATION AUTHORITY - LINE 32

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL PROJECT COST (\$000's)	CONSTRUCTION START
<u>Fiscal Year 2016 Completions</u>			
<u>F.S.KEY BRIDGE</u>			
1	Replace HVAC at Campus and OEC Building Roof (Engineering only) (2319)	486	Complete
<u>FORT MCHENRY TUNNEL</u>			
2	Replace Generator at Maintenance Building (2348)	394	Complete
3	Replace HVAC at Administration Building, Maintenance Building and Emergency Garages (2285)	2,688	Complete
<u>HATEM BRIDGE</u>			
4	Replace HVAC at Administration Building and Scale Houses (2303)	991	Complete
<u>KENNEDY HIGHWAY</u>			
5	Install Travel Time System (2373)	817	Complete
6	Prepare Travel Plaza Redevelopment Specification Design/Construction Prep & Management Documents (2055)	6,227	Complete
7	Rehabilitate Corrugated Pipe Culverts (2359)	968	Complete
8	Zone Paint Various Bridges - Phase III (2281)	3,924	Complete
<u>MULTI-AREA</u>			
9	Implement Video Citation Process (2294)	5,000	Complete
10	Law Enforcement Computer-Aided Dispatch/Records Mgmt/Auto Field Report/Auto Veh Locator System Plan (2324)	9,152	Complete
11	On-Call Facility/Building Repairs (2240)	3,886	Complete
12	On-Call Miscellaneous Electrical Repairs (2236)	2,440	Complete
13	On-Call Shotcrete Repairs and Miscellaneous Modifications (2297)	6,440	Complete
14	On-Call Structural Repairs and Miscellaneous Modifications (2254)	17,382	Complete
15	On-Call Structural Repairs and Miscellaneous Modifications (2291)	16,914	Complete
16	Replace Generators at JFK, WPL, BHT and FSK (2265)	3,054	Complete

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL PROJECT COST (\$000's)	CONSTRUCTION START
<u>Fiscal Year 2016 Completions (cont'd)</u>			
<u>MULTI-AREA (cont'd)</u>			
17	Replace Toll Booths at Bay Bridge and Fort McHenry Tunnel (2276)	5,580	Complete
<u>NICE BRIDGE</u>			
18	Replace Underground Storage Tanks with Aboveground Storage Tanks (2200)	667	Complete
<u>POINT BREEZE</u>			
19	Rehabilitate Parking Lots (2365)	588	Complete
<u>W. P. LANE BRIDGE</u>			
20	Furnish and Install Uninterruptible Power Supply (UPS) (2268)	1,028	Complete
21	Renovate Conduit Hangers - Westbound Span (2267)	1,209	Complete
22	Repair Toll Plaza Concrete Paving (2318)	4,954	Complete
23	Replace Acoustic Monitoring on Eastbound Span (2341)	1,550	Complete
24	Replace Eastbound Span Trolley System (Engineering only) (2391)	200	Complete
25	Replace Traffic System Controllers, Signals and Communications and Replace Cameras and Remount (0651)	8,710	Complete
26	Seal Deck of Westbound Span (Engineering only) (2369)	400	Complete

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY17 + FY18 PROJECT COST (\$000's)	CONSTRUCTION START
<u>Fiscal Year 2017 and 2018</u>			
<u>BALTIMORE HARBOR TUNNEL</u>			
27	Administration Building Roof Replacement and Envelope Rehabilitation (Engineering only) (2439)	500	Underway
28	Canton & Fairfield Vent Building Envelope Repairs (Engineering only) (2306)	500	Underway
29	Establish Authority Operations Center (AOC) at BHT (2434)	510	Underway
30	Mill and Overlay Bridge Decks for for BCY081, BCY082, HOY013 and HOY014 (Engineering only) (2437)	200	Underway
31	Modify Under-Clearances at MD 295 and I-895 Spur Overpasses (2403)	1,763	Underway
32	Rehabilitate K-Truss Approach Spans (2334)	1,034	Underway
33	Repaint Switchgear Enclosures (2330)	257	Underway
34	Repair Slopes and Drainage (2380)	3,804	Underway
35	Replace Fuel Tank at BHT Administration Facility (Engineering only) (2443)	400	Underway
36	Replacement of Concrete Median Barrier along I-895 (Engineering only) (2423)	300	Underway
37	Slope Stabilization of Various Locations on I-895 BHT Thruway (Engineering only) (2427)	400	Underway
<u>F.S.KEY BRIDGE</u>			
38	Deck Rehabilitation (Engineering only) (2425)	236	Underway
39	Maintenance & Repair of Curtis Creek Drawbridges (2420)	1,234	Underway
40	Overlay Bridge Decks over Dock Road and CSXT (4 Bridges) (2327)	1,721	Underway
41	Police Headquarters Building Envelope and Interior Renovations (Engineering only) (2438)	600	Underway
42	Rehabilitate Curtis Creek Bridges (2375)	750	Underway
43	Renovate Second Floor of Administration Building 303 (2406)	7,400	Underway
44	Replace Underground Storage Tanks (2202)	1,770	Underway
45	Resurface Approach Roadways (Engineering only) (2277)	350	Underway
<u>FORT MCHENRY TUNNEL</u>			
46	Deck Sealing & Misc. Rehab to Bridges on I-395 and I-95 north of the FMT (Engineering only) (2431)	300	Underway
47	Deck Sealing & Misc. Rehab to Bridges on I-95 south of the FMT (Engineering only) (2432)	300	Underway
48	Install Fresh Air Duct Lighting (2367)	2,934	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY17 + FY18 PROJECT COST (\$000's)	CONSTRUCTION START
<u>Fiscal Year 2017 and 2018 (cont'd)</u>			
<u>FORT MCHENRY TUNNEL (cont'd)</u>			
49	Pavement Rehabilitation along Moravia Road from I-895 to US 40 (Engineering only) (2419)	198	Underway
50	Rehab of Holding Tank and Construction of Flood Wall at FMT West Vent Building (Engineering only) (2435)	475	Underway
51	Rehab Substructure and Superstructure of Various Bridges (Engineering Only) (2397)	450	Underway
52	Renovate 1st and 5th Floors at East Vent Building (2364)	8,606	Underway
53	Replace Underground Storage Tanks at Administration Building (2381)	3,392	Underway
54	Salt Barn Replacement, Debris Dewatering Pad and Civil Site Construction (2299)	500	Underway
<u>HATEM BRIDGE</u>			
55	Rehabilitate Substructure and Superstructure (2368)	4,716	Underway
<u>KENNEDY HIGHWAY</u>			
56	Deck Rehabilitation to Various Bridges on I-95 in Cecil County (Engineering only) (2429)	400	Underway
57	Deck Replacement of I-95 Bridge over Little Northeast Creek (Engineering only) (2428)	650	Underway
58	Deck Sealing & Miscellaneous Rehabilitation to Bridges on I-95 (Engineering only) (2430)	400	Underway
59	JFK Maintenance Facility 2 Building Renovations (Engineering only) (2440)	400	Underway
60	Rehab Slope and Construct Retaining Wall at I-695 WB and I-95 NB (2384)	714	Underway
61	Rehabilitate Parking Lots and Access Roads at Administration Building (2379)	1,193	Underway
62	Replace Bridge on I-95 over CSXT (Engineering only) (2436)	200	Underway
63	Replace Generator at Police Barracks (2410)	412	Underway
64	Replace Light Poles North of ETL into Cecil County (2323)	1,941	Underway
65	Replace Navigational Lighting on the Tydings Bridge (2332)	504	Underway
66	Structural Rehab to Various Bridges in Baltimore and Harford Counties (2383)	5,025	Underway
67	Structural Rehab to Various Bridges in Cecil County (2382)	5,000	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY17 + FY18 PROJECT COST (\$000's)	CONSTRUCTION START
<u>Fiscal Year 2017 and 2018 (cont'd)</u>			
<u>MULTI-AREA</u>			
68	Allocated Reserve - System Preservation Projects (2325)	93,357	Ongoing
69	Equipment Budget (1702)	17,661	Ongoing
70	On-Call Signs, Sign Lights and Sign Structures (2426)	3,450	Spring, 2017
71	Update Phone System to NECSV9500 (2433)	1,524	Summer, 2017
72	Bay TMDL Stormwater Retrofits - Phase IV (Engineering only) (2404)	41	Underway
73	Bay TMDL Stormwater Retrofits - Phase VI (Engineering only) (2444)	700	Underway
74	Deck Sealing and Miscellaneous Repairs to Bridges on FMT and FSK Approaches (2326)	2,077	Underway
75	Evaluate Condition of Deck, Superstructure & Substructures All Facilities (Engineering only) (2083)	625	Underway
76	Facility-Wide Culvert and Pipe Rehabilitation - Phase I (2390)	3,993	Underway
77	Facility-Wide Culvert and Pipe Rehabilitation - Phase II (Engineering only) (2441)	150	Underway
78	Furnish & Install Fiber Optic Cable from FSK to Point Breeze (2386)	200	Underway
79	Furnish and Install License Plate Recognition Systems (2360)	3,018	Underway
80	Install Ten Virtual Weigh Stations at JFK, TJH, FMT, BHT and FSK (2073)	3,353	Underway
81	Mainline Small Drainage System Preservation (Engineering only) (2421)	600	Underway
82	Modifications to Toll Plaza Signing at All Facilities (2405)	1,523	Underway
83	On-Call Drainage and Stormwater Remediation (2366)	83	Underway
84	On-Call Drainage and Stormwater Remediation (Engineering only) (2422)	116	Underway
85	On-Call Electrical and ITS - #3 (2418)	4,449	Underway
86	On-Call Electrical and ITS (2345)	2,316	Underway
87	On-Call Facility/Building Repairs (2411)	993	Underway
88	On-Call Miscellaneous Paving Repairs (2417)	5,544	Underway
89	On-Call Sign Structures (2298)	324	Underway
90	On-Call Structural & Concrete Repairs and Misc. Modifications (2385)	3,840	Underway
91	On-Call Structural Repairs and Miscellaneous Modifications (2387)	4,080	Underway
92	On-Call Structural Repairs and Miscellaneous Modifications (2388)	3,680	Underway
93	On-Call Structural Repairs and Miscellaneous Modifications (2415)	6,092	Underway
94	On-Call Structural Repairs and Miscellaneous Modifications (2416)	5,753	Underway
95	On-Call Total Maximum Daily Load (TMDL) Storm Water Retrofits on JFK and BHT (2290)	397	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY17 + FY18 PROJECT COST (\$000's)	CONSTRUCTION START
<u>Fiscal Year 2017 and 2018 (cont'd)</u>			
<u>MULTI-AREA (cont'd)</u>			
96	Program Management Services for System Preservation (Engineering only) (2235)	6,000	Underway
97	Replace Uninterruptible Power Supplies (Engineering only) (2413)	19	Underway
98	Total Maximum Daily Load (TMDL) Storm Water Retrofits - Phase III (2346)	1,344	Underway
99	Total Maximum Daily Load (TMDL) Storm Water Retrofits (2300)	809	Underway
100	Upgrade Fire Alarm and Security Systems (2358)	2,024	Underway
<u>NICE BRIDGE</u>			
101	Install Communications Tower (2424)	1,242	Underway
102	Rehabilitate Substructure and Superstructure (2395)	4,185	Underway
<u>POINT BREEZE</u>			
103	Demolition of Power Plant Building (Engineering only) (2398)	262	Underway
104	On-Call Facility and Building Repairs (2400)	462	Underway
<u>W. P. LANE BRIDGE</u>			
105	Modify Lane Use System (2340)	975	Underway
106	Rehabilitate Metal Northrop/Grumman Building for Operations (2322)	590	Underway
107	Replace 5KV Feeder on EB Span and Add Redundant Cable to EB & WB Spans (Engineering only) (2329)	200	Underway
108	Replace HVAC at Campus Buildings (2362)	5,137	Underway
109	Replace Staging Dock (Engineering only) (2392)	175	Underway