

Maryland  
Transportation  
Authority



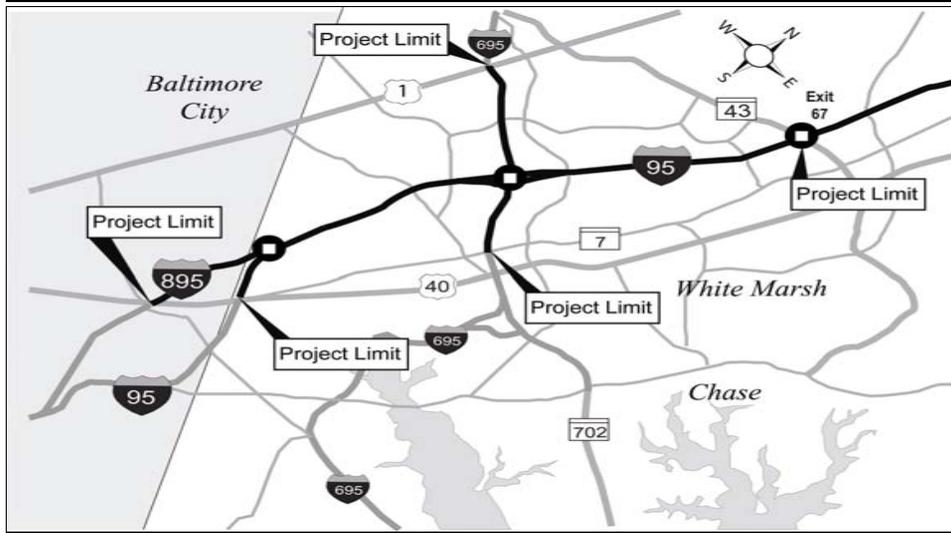
**MARYLAND TRANSPORTATION AUTHORITY**

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

	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>SIX-YEAR TOTAL</u>
<b><u>Construction Program</u></b>							
Major Projects	506.0	383.5	238.2	55.7	34.8	35.2	1,253.4
System Preservation Minor Projects	91.3	146.6	183.4	143.9	158.3	219.8	943.3
<b><u>Development &amp; Evaluation Program</u></b>							
	<u>0.3</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.3</u>
<b>TOTAL</b>	597.6	530.1	421.6	199.6	193.1	255.0	2,197.1

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

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

**PURPOSE & NEED SUMMARY STATEMENT:** This segment of I-95 is the most congested section of I-95 in Maryland north of Baltimore City. Currently, I-95, south of MD 43, operates at Level of Service (LOS) F (lowest level of efficiency) during morning and evening rush hours. By 2025, this section is also expected to operate at LOS E (irregular flow with speed variations) and F during weekend peak periods. 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:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** I-95, south of MD 43, experiences congestion during the morning and evening rush hours. By 2025, this section is also expected to experience congestion during weekend peak periods.

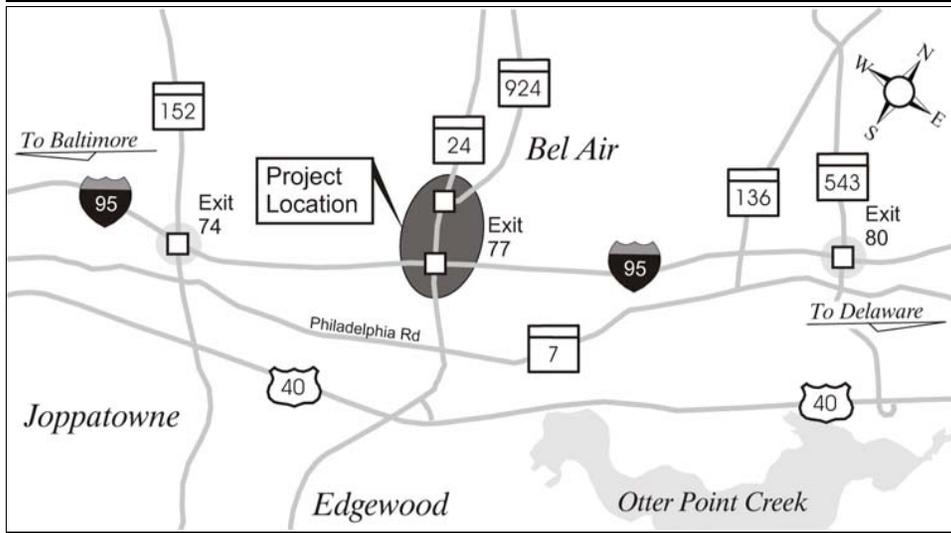
**ASSOCIATED IMPROVEMENTS:**

- I-95/MD24 Interchange - Construction Program (Line 2)
- I-95 New Maintenance Facility (Line 4)
- I-95 Ft. McHenry Tunnel - Moravia Road to the Tunnel - Construction Program (Line 6)
- I-95 Section 200 - Development and Evaluation Program (Line 30)

**STATUS:** Right-of-way acquisition is complete. Engineering and construction are underway.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost increased by \$37 million due to modifications to the I-95/MD 43 interchange.

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 2011			YEAR 2012	YEAR 2013	.....2014.....	.....2015.....			.....2016.....
Planning	6,033	6,033	0	0	0	0	0	0	0	0	0
Engineering	116,927	104,954	5,088	3,902	2,793	190	0	0	11,973	0	0
Right-of-way	46,046	42,673	3,373	0	0	0	0	0	3,373	0	0
Construction	862,201	542,191	62,766	124,217	104,146	28,881	0	0	320,010	0	0
Total	1,031,207	695,851	71,227	128,119	106,939	29,071	0	0	335,356	0	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0



**PROJECT:** I-95 John F. Kennedy Memorial Highway - MD 24 Interchange Improvements (Phase I)

**DESCRIPTION:** Phase 1, construct improvements to the I-95/MD 24 interchange, including upgrades to MD 24 and the reconstruction of the MD 24/MD 924/Tollgate Road intersection to a grade separated interchange. Phase 2, improvements to the I-95/MD 24 interchange were developed as part of the I-95 Section 200 project planning study. (BRAC related.)

**PURPOSE & NEED SUMMARY STATEMENT:** This project will provide improved capacity, operation and safety for the I-95/MD 24 interchange and the MD 24/MD 924/Tollgate Road intersection, which is in close proximity and integral to the I-95/MD 24 interchange operation.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** The project will improve capacity and safety for the I-95/MD 24 interchange and the MD 24/MD 924/Tollgate Road intersection. This improvement will address weaving movements on I-95 and MD 24 and improve traffic flow.

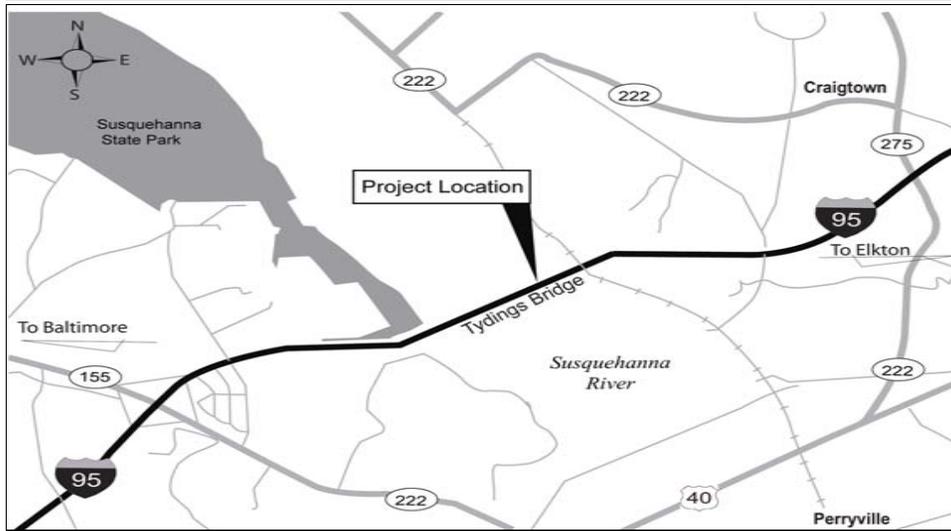
**ASSOCIATED IMPROVEMENTS:**

- I-95 Express Toll Lanes - Construction Program (Line 1)
- I-95 Section 200 - Development and Evaluation Program (Line 30)

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

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost increased by \$4.7 million due to scope change (additional ramp lane from northbound I-95 to northbound MD 24).

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL <input type="checkbox"/> FEDERAL <input type="checkbox"/> GENERAL <input checked="" type="checkbox"/> OTHER								
PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	9,951	9,951	0	0	0	0	0	0	0	0
Right-of-way	4,000	4,000	0	0	0	0	0	0	0	0
Construction	51,317	43,228	8,089	0	0	0	0	0	8,089	0
<b>Total</b>	<b>65,268</b>	<b>57,179</b>	<b>8,089</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,089</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Underwater Repairs at Tydings Bridge

**DESCRIPTION:** Rehabilitate pier foundations and provide pier scour protection.

**PURPOSE & NEED SUMMARY STATEMENT:** Pier foundations in the river exhibit wear and analysis shows scour protection is needed. This improvement will extend the useful life of the pier foundations.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

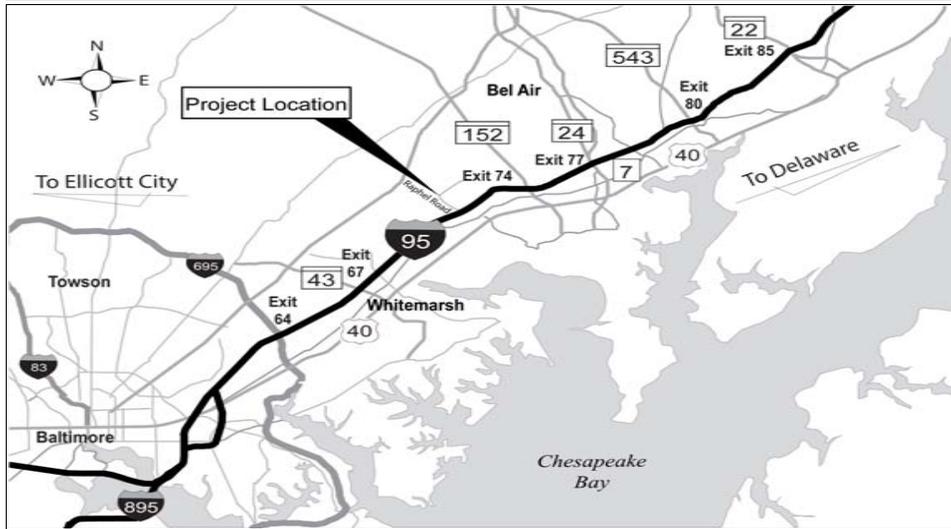
**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Pier foundations were found to have advanced wear and require scour protection.

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY						
					.....2014.....	.....2015.....	.....2016.....	.....2017.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	1,488	720	392	348	28	0	0	0	768	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	41,376	17	13,234	26,058	2,067	0	0	0	41,359	0	
Total	42,864	737	13,626	26,406	2,095	0	0	0	42,127	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Construction cost decreased by \$11.5 million based on actual bid price.



**PROJECT:** I-95 John F. Kennedy Memorial Highway - New Maintenance Facility

**DESCRIPTION:** The project includes the planning and right-of-way acquisition for a new maintenance facility along the I-95 John F. Kennedy Memorial Highway. Construction funding is included to purchase additional equipment for maintenance and operations of the Express Toll Lanes (ETL) and associated interchange improvements only.

**PURPOSE & NEED SUMMARY STATEMENT:** A new maintenance facility will be required to replace the existing JFK Maintenance 1 because the I-95 Section 200 project will displace this facility. The new maintenance Facility will cover the current service area for JFK Maintenance 1 as well as I-95 Master Plan Improvements, including the ETL's and associated interchange improvements.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** A new maintenance facility will be needed when the I-95 Section 200 improvements are implemented. This project has acquired a site for a new maintenance facility.

**ASSOCIATED IMPROVEMENTS:**

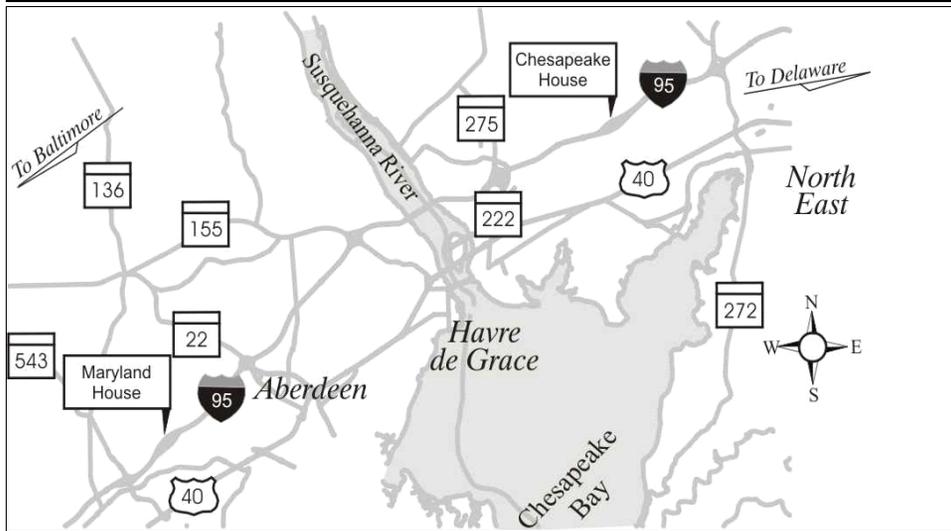
- I-95 Express Toll Lanes - Construction Program (Line 1)
- I-95/MD 24 Interchange - Construction Program (Line 2)
- I-95 Section 200 - Development & Evaluation Program (Line 30)

**STATUS:** Planning is underway. Right-of-way acquisition is complete. Equipment and vehicle acquisition (construction phase) is underway.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:**

Construction cost decreased by \$1.1 million due to reduced amount of equipment to be purchased.

POTENTIAL FUNDING SOURCE:		<input type="checkbox"/> SPECIAL	<input type="checkbox"/> FEDERAL	<input type="checkbox"/> GENERAL	<input checked="" type="checkbox"/> OTHER					SIX	BALANCE
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				YEAR TOTAL	TO COMPLETE	
					.....2014.....	.....2015.....	.....2016.....	.....2017.....			
Planning	451	228	223	0	0	0	0	0	223	0	
Engineering	4	4	0	0	0	0	0	0	0	0	
Right-of-way	2,090	2,090	0	0	0	0	0	0	0	0	
Construction	7,260	2,996	610	120	1,767	1,767	0	0	4,264	0	
Total	9,805	5,318	833	120	1,767	1,767	0	0	4,487	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Travel Plazas Redevelopment

**DESCRIPTION:** Replace and/or rehabilitate the structures and the operations of the concessions. An RFP is being redeveloped for a design, build, operate, maintain and finance contract for the two I-95 travel plazas.

**PURPOSE & NEED SUMMARY STATEMENT:** The Maryland House and Chesapeake House Travel Plazas have aged to the point in which redesign and/or reconstruction is necessary to adequately meet public demand over the next 30 years.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**ASSOCIATED IMPROVEMENTS:**

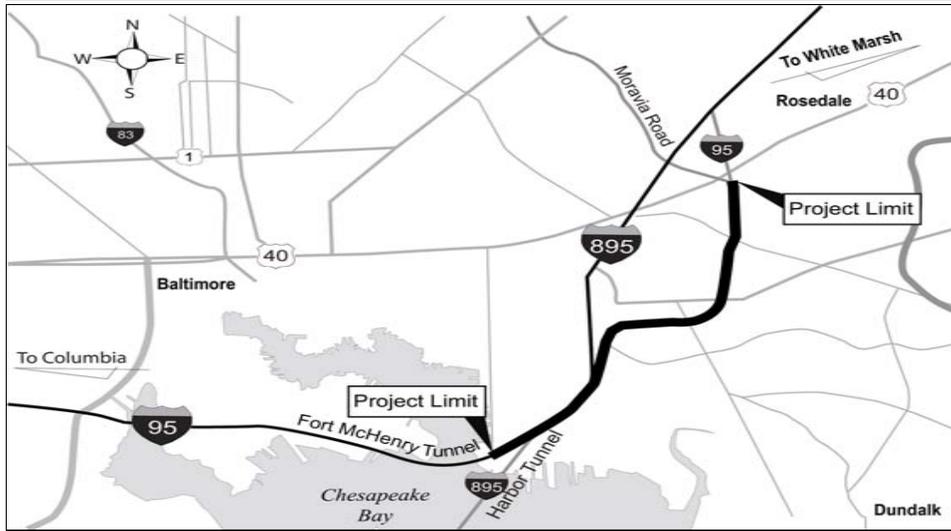
None.

**EXPLANATION:** The structures were built in the 1960's and 70's and are nearing the end of their design life. Age and condition require major rehabilitation or replacement.

**STATUS:** The Request for Proposal was reissued in late June 2011. Construction funding is to be financed by the winning bidder.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 2011			2012	2013	.....2014.....	.....2015.....		
Planning	4,154	2,438	600	600	516	0	0	0	1,716	0
Engineering	1,870	1,870	0	0	0	0	0	0	0	0
Right-of-way	250	250	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>6,274</b>	<b>4,558</b>	<b>600</b>	<b>600</b>	<b>516</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,716</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0



**PROJECT:** I-95 Fort McHenry Tunnel - Moravia Road to the Tunnel Modifications

**DESCRIPTION:** The project limits extend from the southern end of the I-95, ETL Project (Moravia Road) to the Fort McHenry Tunnel Toll Plaza. Phase 1 modifications from Moravia Road to Eastern Avenue include grinding and overlaying to provide four continuous through lanes (lane continuity); Phase 2 from Eastern Avenue to Fort McHenry Tunnel includes re-striping to provide four continuous through lanes (lane continuity).

**PURPOSE & NEED SUMMARY STATEMENT:** The existing typical section of I-95 from Moravia Road to the FMT is as follows: three lanes per direction from I-895 to Moravia Road; four lanes per direction from Moravia Road to O'Donnell Street; three lanes per direction from O'Donnell Street to Boston Street; and four lanes per direction from Boston Street to the Fort McHenry Tunnel. This project will provide southbound lane continuity from the southern limits of the ETL's to the tunnel.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

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

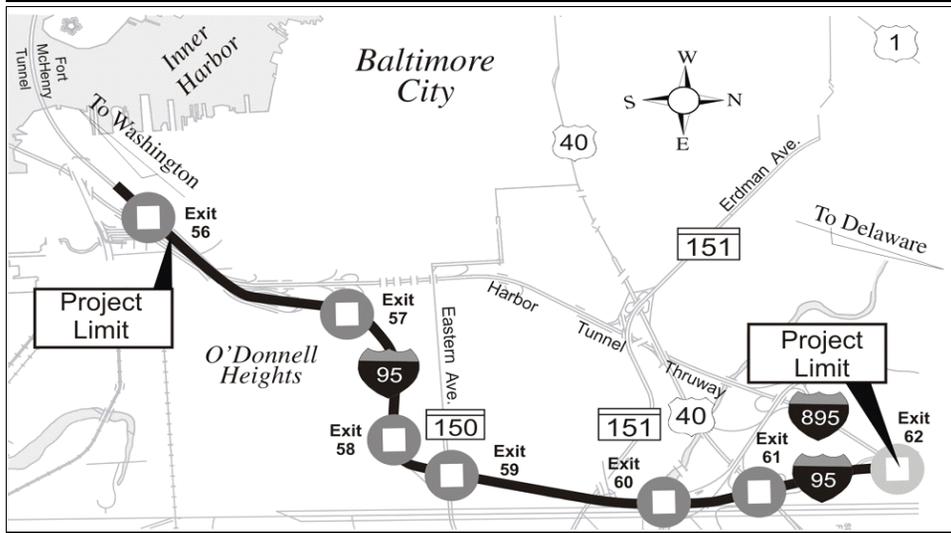
**ASSOCIATED IMPROVEMENTS:**

- I-95 Express Toll Lanes - Construction Program (Line 1)
- I-95 Ft. McHenry Tunnel - Rehabilitate North of Tunnel - Construction Program (Line 7)
- I-95 Ft. McHenry Tunnel - Rehab. from Joh Ave. to Washington Blvd. - Construction Program (Line 8)
- I-95 Ft. McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 9)

**STATUS:** Planning and engineering are complete. Construction for Phase I southbound is underway.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost increased by \$941k due to additional railroads coordination.

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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY						
					.....2014.....	.....2015.....	.....2016.....	.....2017.....			
Planning	555	555	0	0	0	0	0	0	0	0	
Engineering	1,494	1,494	0	0	0	0	0	0	0	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	12,250	3,799	8,451	0	0	0	0	0	8,451	0	
Total	14,299	5,848	8,451	0	0	0	0	0	8,451	0	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



**PROJECT:** I-95 Fort McHenry Tunnel - Rehabilitate Bridge, Roadway and Signage North of Tunnel

**DESCRIPTION:** Rehabilitate I-95 north of the Tunnel to I-895. Includes resurfacing of 34 bridge decks and related structural repairs; resurfacing and safety improvements of roadways; replacing and upgrading of existing signing; and inspecting and repairing of high mast light poles and sign structures.

**PURPOSE & NEED SUMMARY STATEMENT:** Bridge decks and roadways have been rehabilitated and resurfaced through this project. Signs and other safety features need to be upgraded to the latest standards.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Bridge decks and roadways have been rehabilitated and resurfaced through this project. Signs and other safety features need to be upgraded to the latest standards.

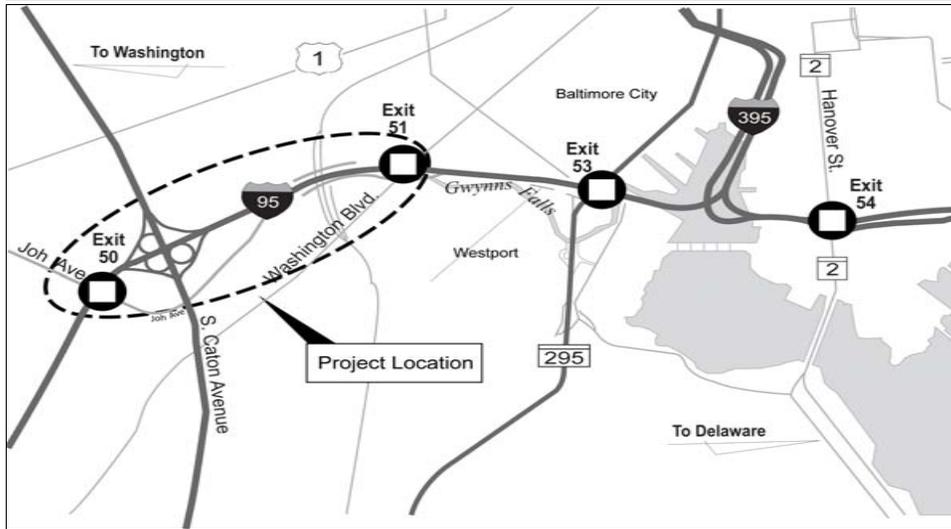
**ASSOCIATED IMPROVEMENTS:**

- I-95 Ft. McHenry Tunnel - Moravia Road to Tunnel Modifications - Construction Program (Line 6)
- I-95 Ft. McHenry Tunnel - Rehab. from Joh Ave. to Washington Blvd. - Construction Program (Line 8)
- I-95 Ft. McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 9)
- I-95 Ft. McHenry Tunnel - Superstructure Repairs and Zone Painting - Construction Program (Line 10)

**STATUS:** Bridge and roadway rehabilitation is complete. Signing and lighting work 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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY						
					.....2014.....	.....2015.....	.....2016.....	.....2017.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	6,483	6,333	150	0	0	0	0	0	150	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	33,470	28,587	4,883	0	0	0	0	0	4,883	0	
<b>Total</b>	<b>39,953</b>	<b>34,920</b>	<b>5,033</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,033</b>	<b>0</b>	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



**PROJECT:** I-95 Fort McHenry Tunnel - Bridge, Roadway and Signage Rehabilitation from Joh Avenue to Washington Boulevard

**DESCRIPTION:** Rehabilitation of I-95 South of the Fort McHenry Tunnel. Scope of work includes overlaying the roadway section, excluding bridge decks, between Joh Avenue and Washington Boulevard and replacement and upgrades of existing signing; miscellaneous safety improvements; and inspection and repair of high mast light poles and sign structures.

**PURPOSE & NEED SUMMARY STATEMENT:** Roadway has not been resurfaced since its opening in 1976 and it exhibits various degrees of wear. Signing, lighting and other safety features need to be brought up to the latest standards.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Roadway exhibits various degrees of wear. Signing, lighting and other safety features need to be upgraded to the latest standards.

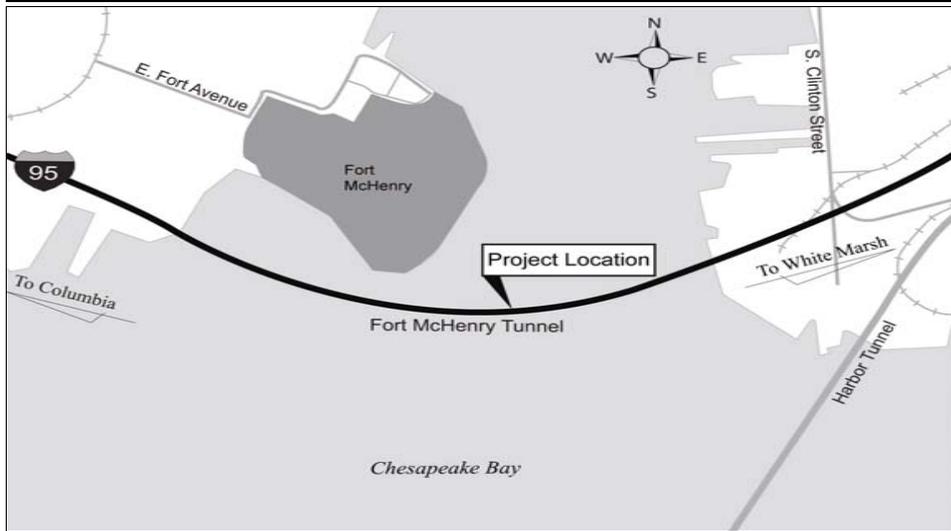
**ASSOCIATED IMPROVEMENTS:**

- I-95 Ft. McHenry Tunnel - Moravia Road to Tunnel Modifications - Construction Program (Line 6)
- I-95 Ft. McHenry Tunnel - Rehabilitate North of the Tunnel - Construction Program (Line 7)
- I-95 Ft. McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 9)
- I-95 Ft. McHenry Tunnel - Superstructure Repairs and Zone Painting - Construction Program (Line 10)

**STATUS:** Construction is underway.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY					
					....2014....	....2015....	....2016....	....2017....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	4,177	3,349	828	0	0	0	0	0	828	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	33,976	24,450	9,526	0	0	0	0	0	9,526	0
<b>Total</b>	<b>38,153</b>	<b>27,799</b>	<b>10,354</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,354</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



**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:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

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

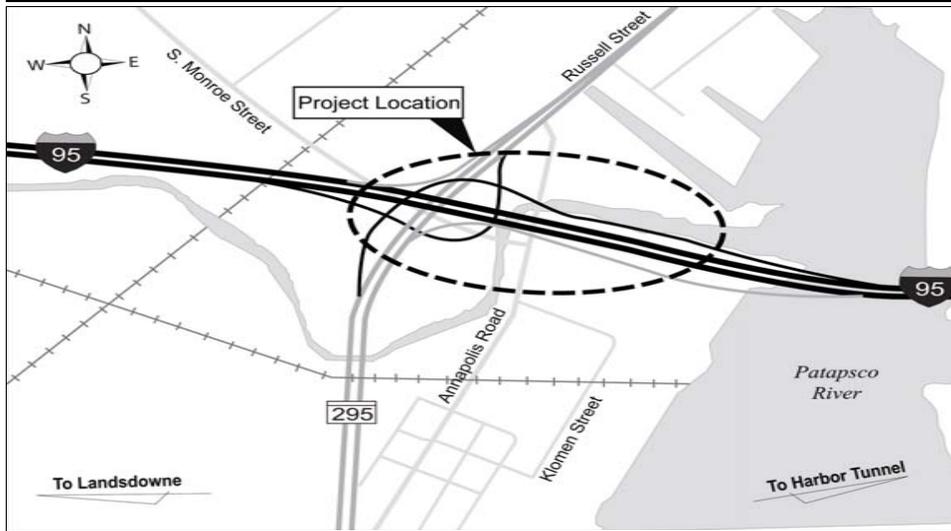
**ASSOCIATED IMPROVEMENTS:**

- I-95 Ft. McHenry Tunnel - Moravia Road to Tunnel Modifications - Construction Program (Line 6)
- I-95 Ft. McHenry Tunnel - Rehabilitate North of Tunnel - Construction Program (Line 7)
- I-95 Ft. McHenry Tunnel - Rehab. from Joh Ave. to Washington Blvd. - Construction Program (Line 8)
- I-95 Ft. McHenry Tunnel - Superstructure Repairs and Zone Painting - Construction Program (Line 10)

**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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY					
					....2014....	....2015....	....2016....	....2017....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	919	919	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	15,405	1,198	12,943	1,264	0	0	0	0	14,207	0
Total	16,324	2,117	12,943	1,264	0	0	0	0	14,207	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$6.0 million based on actual bid price.



**PROJECT:** I-95 Fort McHenry Tunnel - Superstructure Repairs and Zone Painting to Various Bridges on I-95

**DESCRIPTION:** Repair superstructure and paint seven bridges on I-95 located near Russell Street and MD 295.

**PURPOSE & NEED SUMMARY STATEMENT:** Superstructure and paint exhibit various degrees of wear. This improvement will correct current wear and extend the useful life of the superstructure.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Repairs are needed to correct current wear and to prevent further wear of the superstructure and paint.

**ASSOCIATED IMPROVEMENTS:**

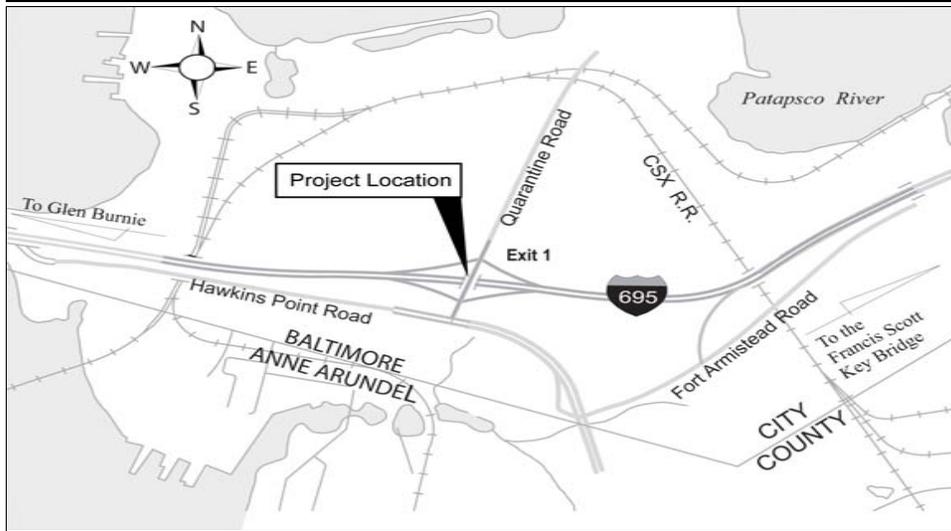
- I-95 Ft. McHenry Tunnel - Moravia Road to Tunnel Modifications - Construction Program (Line 6)
- I-95 Ft. McHenry Tunnel - Rehabilitate North of Tunnel - Construction Program (Line 7)
- I-95 Ft. McHenry Tunnel - Rehab. from Joh Ave. to Washington Blvd. - Construction Program (Line 8)
- I-95 Ft. McHenry Tunnel - Rehabilitate Concrete Tunnel Deck - Construction Program (Line 9)

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	888	345	432	84	27	0	0	0	543	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	9,149	0	1,098	6,130	1,921	0	0	0	9,149	0
<b>Total</b>	<b>10,037</b>	<b>345</b>	<b>1,530</b>	<b>6,214</b>	<b>1,948</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,692</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

2205

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$8.4 million due to reduction in project scope to address I-95 bridges only.



**PROJECT:** MD 695 Francis Scott Key Bridge - Interchange Improvements at Quarantine Road

**DESCRIPTION:** Improvements to Quarantine Road interchange will include widening of the ramps and upgraded traffic signals; permanent closure of the ramp from Quarantine Road to the Outer Loop and redirection of traffic to the Fort Armistead ramp; widening of the approach roadways and restriping the Quarantine Road bridge to four lanes; a new storm water management facility to control storm water pollution; new roadway signing, lighting, pavement markings, landscaping and reforestation.

**PURPOSE & NEED SUMMARY STATEMENT:** This project will improve safety by addressing constraints at the existing MD 695 - Quarantine Road interchange that result in ramp queues that extend onto MD 695.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** This project will improve safety by addressing constraints at the existing MD 695 - Quarantine Road interchange. This improvement will eliminate existing queues, which extend onto mainline MD 695.

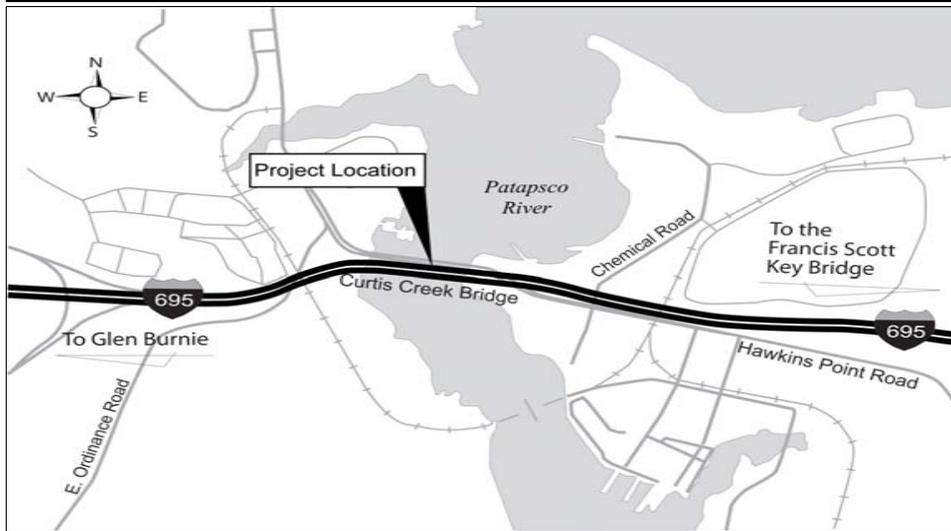
**ASSOCIATED IMPROVEMENTS:**

- MD 695 Francis Scott Key Bridge - Replace Curtis Creek Grid Deck - Construction Program (Line 12)
- MD 695 Francis Scott Key Bridge - Repair Approach Spans and Paint Fascia Beams - Construction Program (Line 13)

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

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY						
					.....2014.....	.....2015.....	.....2016.....	.....2017.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	4,984	4,984	0	0	0	0	0	0	0	0	
Right-of-way	6,525	6,525	0	0	0	0	0	0	0	0	
Construction	4,440	2,073	2,367	0	0	0	0	0	2,367	0	
<b>Total</b>	<b>15,949</b>	<b>13,582</b>	<b>2,367</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,367</b>	<b>0</b>	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



**PROJECT:** MD 695 Francis Scott Key Bridge - Replace Curtis Creek Grid Deck

**DESCRIPTION:** Replace the steel grid deck of the bascule (movable) span, and retrofit stringers and floor beams.

**PURPOSE & NEED SUMMARY STATEMENT:** The grid deck is reaching the end of its useful life and stringers and floor beams exhibit various degrees of wear. This improvement will address existing wear and extend the useful life of the bridge.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** This improvement will address existing wear and extend the useful life of the bridge.

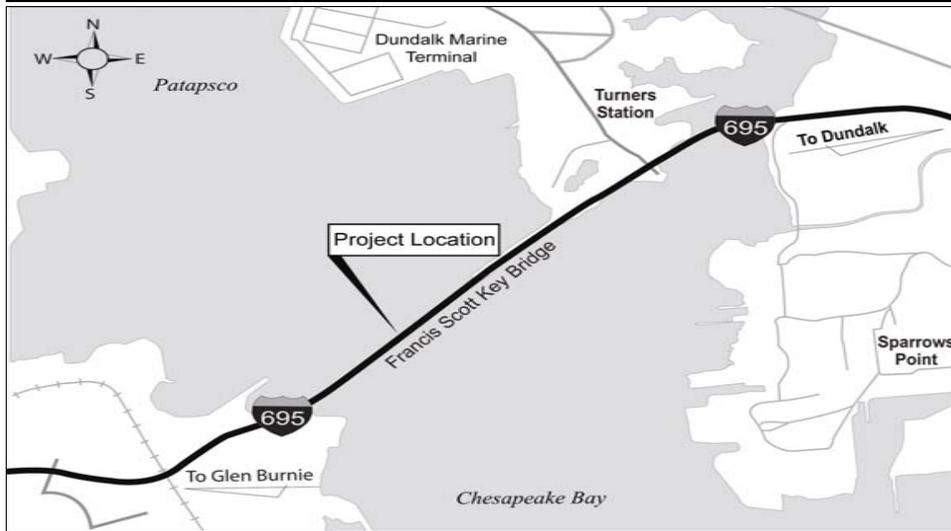
**ASSOCIATED IMPROVEMENTS:**

- MD 695 Francis Scott Key Bridge - Interchange Improvements at Quarantine Road - Construction Program (Line 11)
- MD 695 Francis Scott Key Bridge - Repair Approach Spans and Paint Fascia Beams - Construction Program (Line 13)

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 2011			2012	2013	....2014....	....2015....			....2016....
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	1,500	724	776	0	0	0	0	0	776	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	12,947	0	10,110	2,837	0	0	0	0	12,947	0	
<b>Total</b>	<b>14,447</b>	<b>724</b>	<b>10,886</b>	<b>2,837</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,723</b>	<b>0</b>	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	



**PROJECT:** MD 695 Francis Scott Key Bridge - Repair Approach Spans and Paint Bridge Fascia Beams

**DESCRIPTION:** Repair beams on the approach spans and paint the bridge fascia beams.

**PURPOSE & NEED SUMMARY STATEMENT:** Approach spans and fascia beams exhibit various degrees of wear. This improvement will address existing deterioration and prevent further deterioration.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Approach spans and fascia beams exhibit various degrees of wear. This improvement will address existing deterioration and prevent further deterioration.

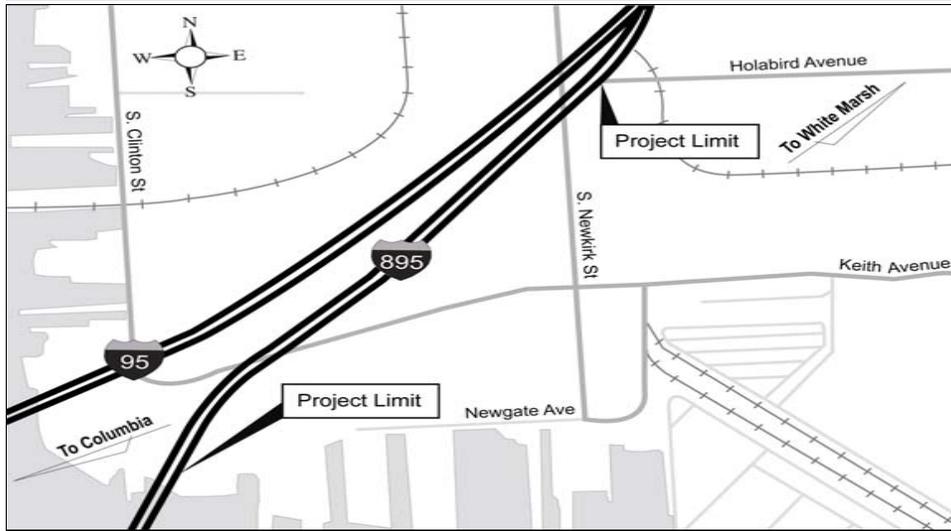
**ASSOCIATED IMPROVEMENTS:**

- MD 695 Francis Scott Key Bridge - Interchange Improvements at Quarantine Road - Construction Program (Line 11)
- MD 695 Francis Scott Key Bridge - Replace Curtis Creek Grid Deck - Construction Program (Line 12)

**STATUS:** Engineering is underway. 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 FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	240	169	32	36	3	0	0	0	71	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	6,540	15	2,480	3,850	195	0	0	0	6,525	0
<b>Total</b>	<b>6,780</b>	<b>184</b>	<b>2,512</b>	<b>3,886</b>	<b>198</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,596</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$7.8 million based on actual bid price.



**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. The Canton Viaduct is one of the MDTA's Structurally Deficient bridges.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** The bridge deck, substructure and superstructure are experiencing various degrees of wear. The Canton Viaduct is one of the MDTA's Structurally Deficient bridges.

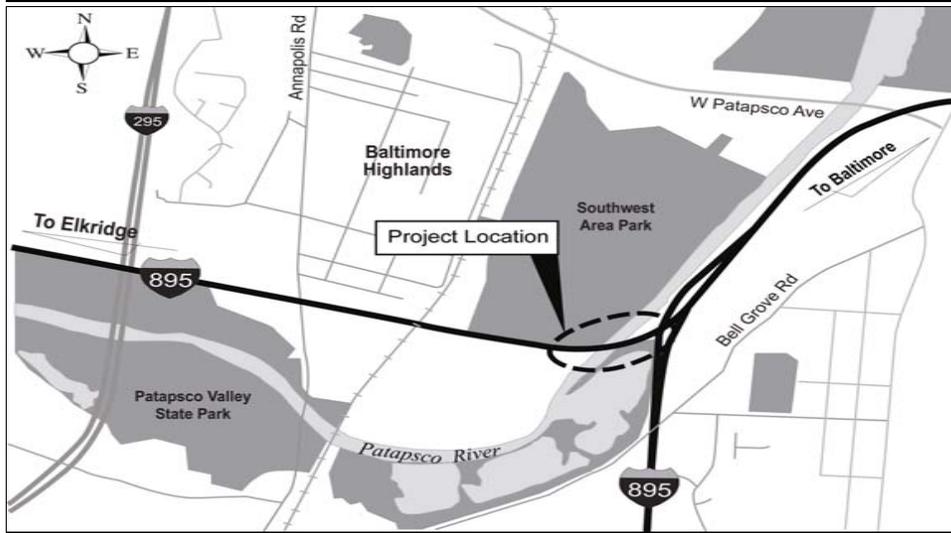
**ASSOCIATED IMPROVEMENTS:**

- I-895 Baltimore Harbor Tunnel Thruway - Rehabilitate Patapsco Flats Bridge - Construction Program (Line 15)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Various Bridge Decks - Construction Program (Line 16)

**STATUS:** Engineering is underway. Right-of-way acquisition is to begin in FY 2013. Construction is to begin in FY 2015.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY					
					....2014....	....2015....	....2016....	....2017....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	5,137	3,187	815	815	320	0	0	0	1,950	0
Right-of-way	10,920	0	0	5,460	5,460	0	0	0	10,920	0
Construction	162,711	0	0	0	0	24,585	34,811	35,215	94,611	68,100
<b>Total</b>	<b>178,768</b>	<b>3,187</b>	<b>815</b>	<b>6,275</b>	<b>5,780</b>	<b>24,585</b>	<b>34,811</b>	<b>35,215</b>	<b>107,481</b>	<b>68,100</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0



**PROJECT:** I-895 Baltimore Harbor Tunnel Thruway - Rehabilitate Patapsco Flats Bridge Substructure

**DESCRIPTION:** Repair worn concrete of the pier bearing pedestals, caps, and columns.

**PURPOSE & NEED SUMMARY STATEMENT:** Pier bearing pedestals, caps, and columns exhibit various degrees of wear. This improvement will address existing wear and prevent further wear.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Pier bearing pedestals, caps, and columns exhibit various degrees of wear. This improvement will address existing wear and prevent further wear.

**ASSOCIATED IMPROVEMENTS:**

- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 14)
- I-895 Baltimore Harbor Tunnel Thruway - Replace Various Bridge Decks - Construction Program (Line 16)

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

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 FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE	
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....			
Planning	0	0	0	0	0	0	0	0	0	0	
Engineering	709	510	170	29	0	0	0	0	199	0	
Right-of-way	0	0	0	0	0	0	0	0	0	0	
Construction	4,290	8	2,140	2,142	0	0	0	0	4,282	0	
<b>Total</b>	<b>4,999</b>	<b>518</b>	<b>2,310</b>	<b>2,171</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,481</b>	<b>0</b>	
Federal-Aid	0	0	0	0	0	0	0	0	0	0	

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$9.1 million due to reduced scope including less than anticipated scour countermeasures.



**PROJECT:** I-895 Baltimore Harbor Tunnel Thruway - Replace Various Bridge Decks

**DESCRIPTION:** Redeck the South Hanover Street, Potee Street and West Patapsco Avenue bridges and repair identified structural defects.

**PURPOSE & NEED SUMMARY STATEMENT:** These bridge decks are reaching the end of their useful life and need to be replaced.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** These bridge decks are reaching the end of their useful life and need to be replaced.

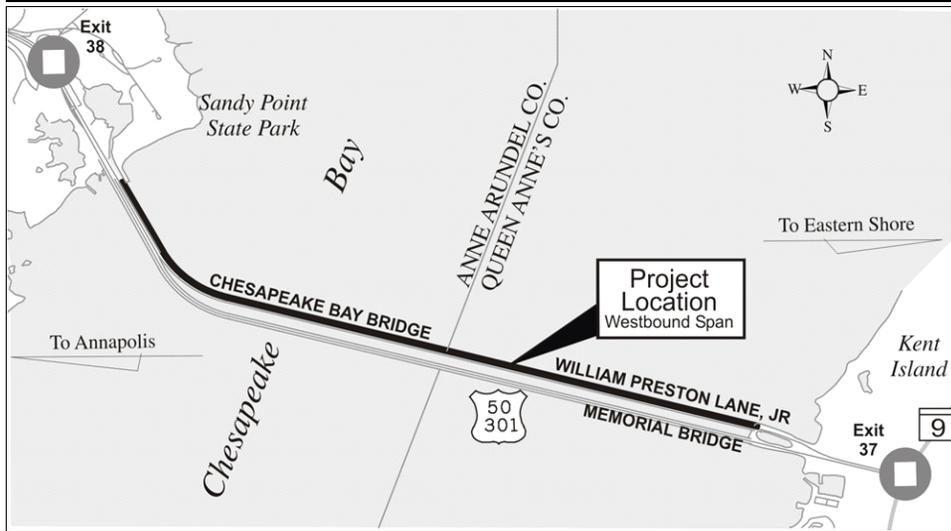
**ASSOCIATED IMPROVEMENTS:**

- I-895 Baltimore Harbor Tunnel Thruway - Replace Canton Viaduct - Construction Program (Line 14)
- I-895 Baltimore Harbor Tunnel Thruway - Rehabilitate Patapsco Flats Bridge - Construction Program (Line 15)

**STATUS:** Engineering is underway. Construction is to begin in FY 2013.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	834	484	186	89	74	1	0	0	350	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	9,740	0	0	4,286	5,357	97	0	0	9,740	0
<b>Total</b>	<b>10,574</b>	<b>484</b>	<b>186</b>	<b>4,375</b>	<b>5,431</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>10,090</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$12.6 million due to scope being reduced to address these three bridges.



**PROJECT:** US 50/301 Bay Bridge - Rehabilitate Westbound Bridge Deck

**DESCRIPTION:** Rehabilitate the westbound bridge deck. Phase I - Truss, Beam and Girder Spans. Phase II - Suspension and Through-truss Spans.

**PURPOSE & NEED SUMMARY STATEMENT:** This project rehabilitated and replaced the westbound bridge deck.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** This project rehabilitated and replaced the westbound bridge deck.

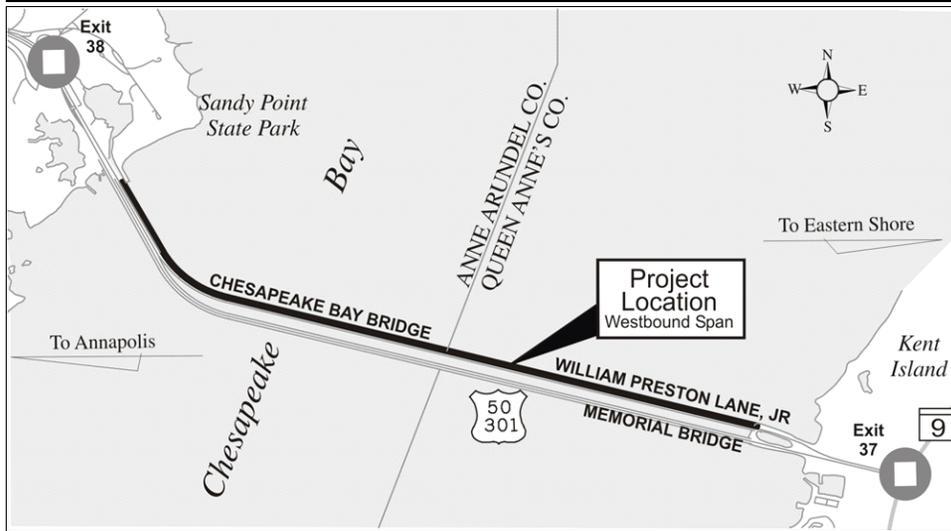
**ASSOCIATED IMPROVEMENTS:**

- US 50/301 Bay Bridge - Clean and Paint Structural Steel Westbound Bridge - Construction Program (Line 18)
- US 50/301 Bay Bridge - Cable Rewrapping & Dehumidification - Construction Program (Line 19)
- US 50/301 Bay Bridge - Repair Substructure Westbound Bridge - Construction Program (Line 20)

**STATUS:** Open to service.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....		
	Planning	0	0	0	0	0	0	0		
Engineering	15,025	15,022	3	0	0	0	0	0	3	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	119,272	97,064	22,208	0	0	0	0	0	22,208	0
<b>Total</b>	<b>134,297</b>	<b>112,086</b>	<b>22,211</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,211</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



**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 3 million square feet including girder spans, deck trusses, overhead truss members and suspension 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. The improvement will protect the steel components of the bridge and extend the useful life.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**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.

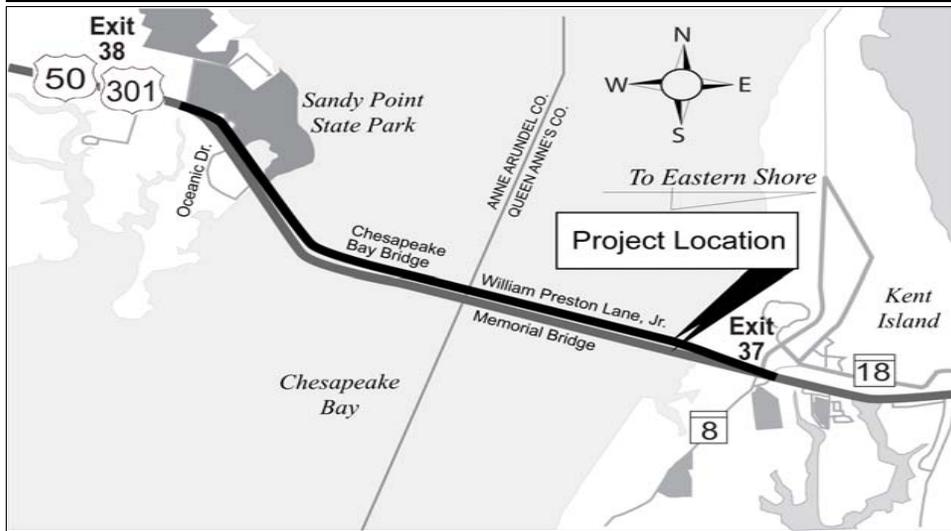
**ASSOCIATED IMPROVEMENTS:**

- US 50/301 Bay Bridge - Rehabilitate Westbound Deck - Construction Program (Line 17)
- US 50/301 Bay Bridge - Cable Rewrapping & Dehumidification - Construction Program (Line 19)
- US 50/301 Bay Bridge - Repair Substructure Westbound Bridge - Construction Program (Line 20)

**STATUS:** Engineering and construction are 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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY					
					.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,506	822	1,084	600	0	0	0	0	1,684	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	35,155	1,409	11,827	16,910	5,009	0	0	0	33,746	0
<b>Total</b>	<b>37,661</b>	<b>2,231</b>	<b>12,911</b>	<b>17,510</b>	<b>5,009</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,430</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



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

**DESCRIPTION:** Rewrap, dehumidify and shield 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 and provide shielding for the main cables.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

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

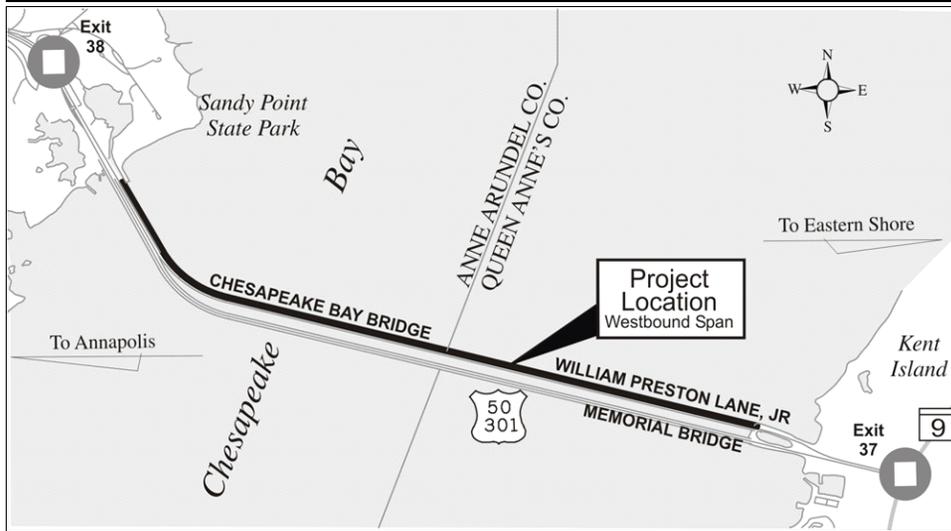
**ASSOCIATED IMPROVEMENTS:**

- US 50/301 Bay Bridge - Rehabilitate Westbound Bridge Deck - Construction Program (Line 17)
- US 50/301 Bay Bridge - Clean and Paint Structural Steel Westbound Bridge - Construction Program (Line 18)
- US 50/301 Bay Bridge - Repair Substructure Westbound Bridge - Construction Program (Line 20)

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,303	1,803	500	0	0	0	0	0	500	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	43,001	1	89	21,455	21,456	0	0	0	43,000	0
<b>Total</b>	<b>45,304</b>	<b>1,804</b>	<b>589</b>	<b>21,455</b>	<b>21,456</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>43,500</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost increased by \$6.4 million due to additional work indicated by recent inspections.



**PROJECT:** US 50/301 Bay Bridge - Repair Substructure Westbound Bridge

**DESCRIPTION:** System preservation work consisting of repairing wear to concrete piles and pile caps and replacing missing and damaged pile jackets on the east and west approach spans of the westbound bridge.

**PURPOSE & NEED SUMMARY STATEMENT:** Piles and pile caps exhibit various degrees of wear. This improvement will address existing wear and extend the useful life of the piles on the east and west approach spans of the westbound bridge.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Repair wear to concrete piles and pile caps and replace missing and damaged pile jackets on the east and west approach spans of the westbound bridge.

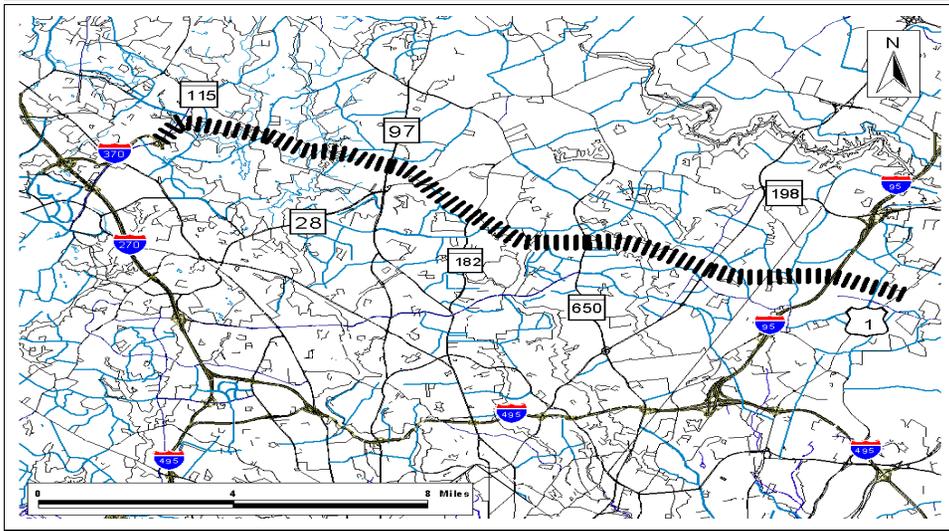
**ASSOCIATED IMPROVEMENTS:**

- US 50/301 Bay Bridge - Rehabilitate Westbound Bridge Deck - Construction Program (Line 17)
- US 50/301 Bay Bridge - Clean and Paint Structural Steel Westbound Bridge - Construction Program (Line 18)
- US 50/301 Bay Bridge - Cable Rewrapping and Dehumidification - Construction Program (Line 19)

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY					
					.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	749	446	169	73	58	3	0	0	303	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	10,800	0	1,080	5,292	4,212	216	0	0	10,800	0
<b>Total</b>	<b>11,549</b>	<b>446</b>	<b>1,249</b>	<b>5,365</b>	<b>4,270</b>	<b>219</b>	<b>0</b>	<b>0</b>	<b>11,103</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$3.0 million due to reduction in scope of work to address substructure repairs only.



**PROJECT:** MD 200, InterCounty Connector

**DESCRIPTION:** Construction of 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 is 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:

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**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:**

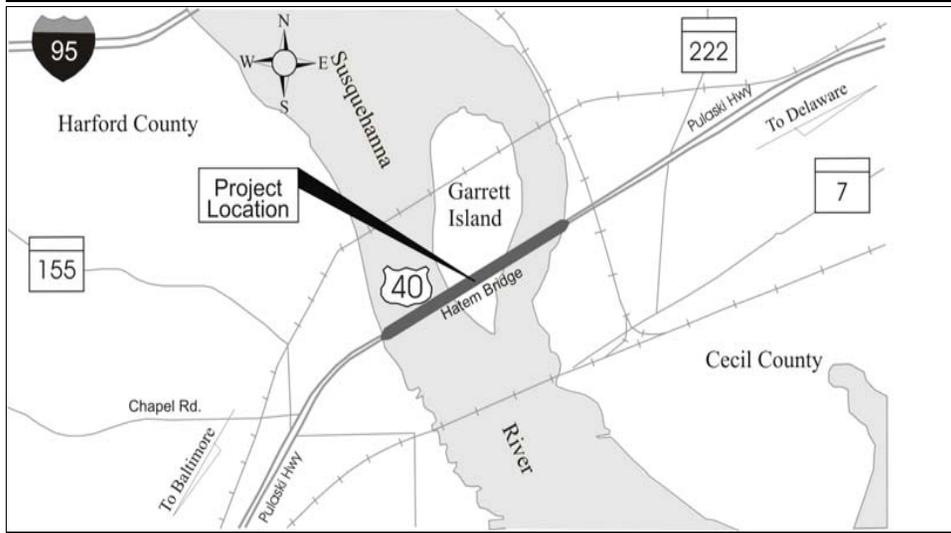
- I-95/Contee Road Interchange (Line 1, Prince George's County - SHA)
- MD 28/MD 198, MD 97 to I-95 (Line 12, Montgomery County - SHA)
- MD 201 Extended/US 1, I-95/I-495 to Contee Road (Line 21, Prince George's County - SHA)

**STATUS:** Engineering is complete, right-of-way and construction are underway. Contract A from I-370 to MD 97 was opened to traffic in February 2011. Contracts B and C, extending to I-95, will be opened to traffic in late 2011 or early 2012. The procurement process has begun for the remaining work, comprising modified Contracts D and E. Work is expected to be completed in 2014.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost reduced by \$16.9 million due to right-of-way acquisition savings and Contract A/B/C contingency savings.

POTENTIAL FUNDING SOURCE:		<input checked="" type="checkbox"/> SPECIAL	<input checked="" type="checkbox"/> FEDERAL	<input checked="" 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 2011			2012	2013	.....2014.....	.....2015.....		
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	278,121	268,533	6,576	2,471	541	0	0	0	9,588	0
Construction	2,063,634	1,629,115	273,554	94,459	66,506	0	0	0	434,519	0
Total	2,445,825	2,001,718	280,130	96,930	67,047	0	0	0	444,107	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 40 Thomas J. Hatem Memorial Bridge - Replace Deck

**DESCRIPTION:** Replace the deck on the Hatem Bridge. One 12-foot wide traffic lane will be maintained in each direction during construction. This maintenance of traffic plan was selected through coordination efforts with the Cecil/Harford Bridges Work Group. (BRAC related.)

**PURPOSE & NEED SUMMARY STATEMENT:** The concrete and steel grate core are worn, requiring replacement. The deck was last renovated in 1982. This improvement will completely replace the bridge deck.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** The concrete and steel grate core are worn and are reaching the end of their life cycle. This improvement will completely replace the deck with a new grid deck.

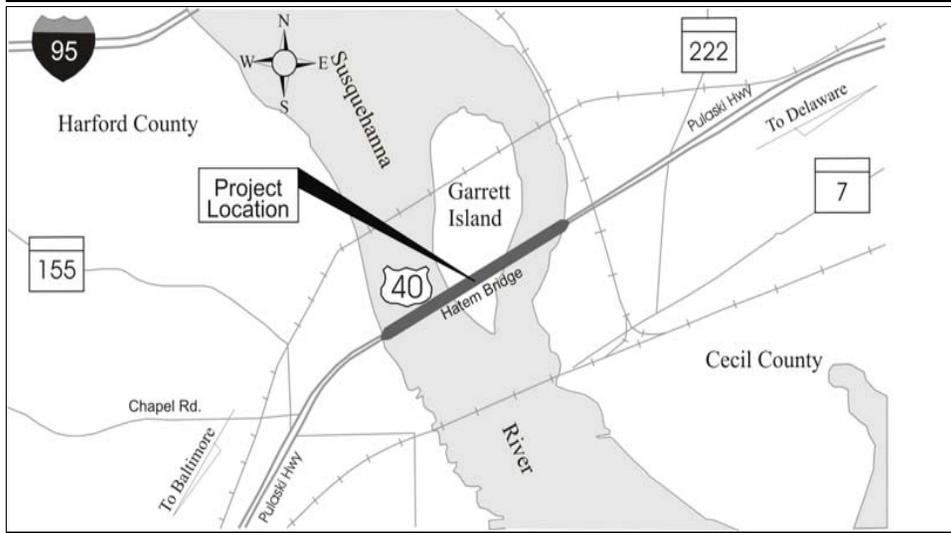
**ASSOCIATED IMPROVEMENTS:**

- US 40 Thomas J. Hatem Memorial Bridge - Underwater Repairs - Construction Program (Line 23)
- US 40 Thomas J. Hatem Memorial Bridge - Clean and Paint Structural Steel - Construction Program (Line 24)

**STATUS:** Open to service.

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 2011			2012	2013	....2014....	....2015....			....2016....
Planning	0	0	0	0	0	0	0	0	0	0	0
Engineering	3,702	3,622	80	0	0	0	0	0	0	80	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	63,065	60,488	2,577	0	0	0	0	0	0	2,577	0
Total	66,767	64,110	2,657	0	0	0	0	0	0	2,657	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



**PROJECT:** US 40 Thomas J. Hatem Memorial Bridge - Underwater Repairs

**DESCRIPTION:** Rehabilitate pier foundations with advanced wear and address pier scour protection.

**PURPOSE & NEED SUMMARY STATEMENT:** Pier foundations in the river exhibit wear and analysis shows scour protection is needed. This improvement will extend the useful life of the pier foundations.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Pier foundations have advanced wear and require scour protection. This improvement will address existing wear and prevent further wear.

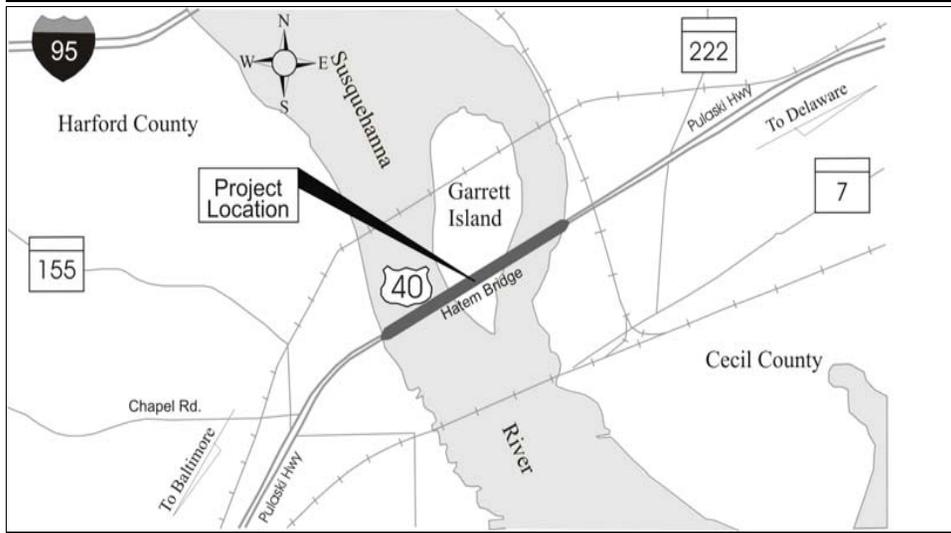
**ASSOCIATED IMPROVEMENTS:**

- US 40 Thomas J. Hatem Memorial Bridge - Replace Deck - Construction Program (Line 22)
- US 40 Thomas J. Hatem Memorial Bridge - Clean and Paint Structural Steel - Construction Program (Line 24)

**STATUS:** Engineering is underway. Construction is to begin in FY 2012.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	....2014....	....2015....	....2016....	....2017....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	1,500	928	153	333	86	0	0	0	572	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	52,575	1	8,938	34,699	8,937	0	0	0	52,574	0
<b>Total</b>	<b>54,075</b>	<b>929</b>	<b>9,091</b>	<b>35,032</b>	<b>9,023</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53,146</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0



**PROJECT:** US 40 Thomas J. Hatem Memorial Bridge - Clean and Paint Structural Steel

**DESCRIPTION:** Paint structural members throughout the bridge.

**PURPOSE & NEED SUMMARY STATEMENT:** Bridge has areas of paint wear. This improvement will address existing paint wear and extend the useful life of the structural steel.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**ASSOCIATED IMPROVEMENTS:**

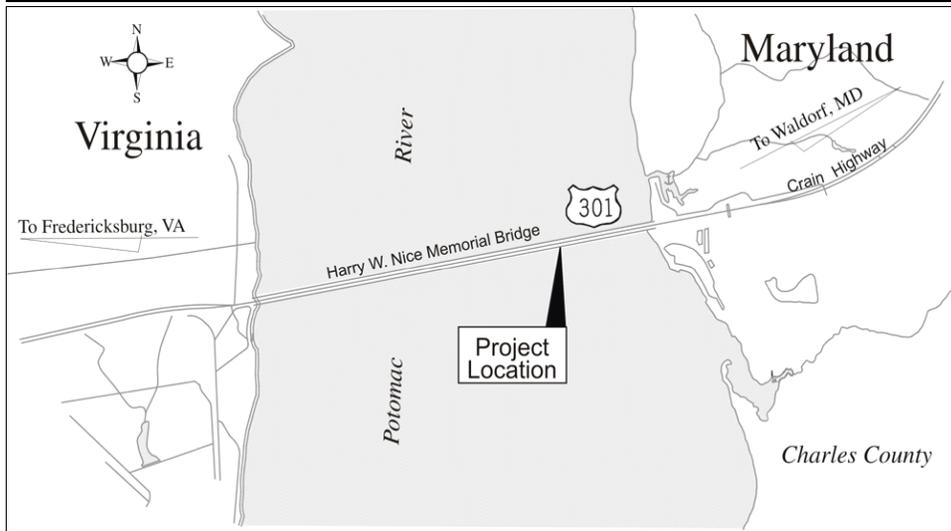
- US 40 Thomas J. Hatem Memorial Bridge - Replace Deck - Construction Program (Line 22)
- US 40 Thomas J. Hatem Memorial Bridge - Underwater Repairs - Construction Program (Line 23)

**EXPLANATION:** Bridge has paint wear. This improvement will address existing wear and prevent further wear.

**STATUS:** Engineering is complete. Construction is to begin in FY 2012.

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 FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	....2014....	....2015....	....2016....	....2017....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	500	500	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	10,300	0	3,741	6,559	0	0	0	0	10,300	0
<b>Total</b>	<b>10,800</b>	<b>500</b>	<b>3,741</b>	<b>6,559</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,300</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



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

**DESCRIPTION:** Spot paint as required throughout the full length of the bridge and zone paint at locations of roadway joints. Repair 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 has wear. This improvement will extend the useful life of the structural steel.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** Paint throughout the bridge has wear. This improvement will address existing wear and prevent further wear.

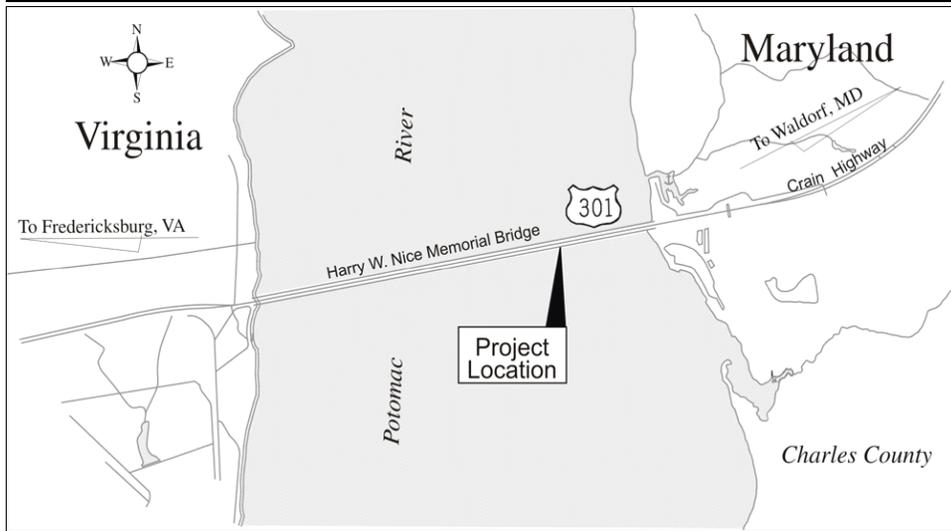
**ASSOCIATED IMPROVEMENTS:**

US 301 Harry W. Nice Memorial Bridge - Rehabilitate and Realign Approach Roadway, Replace Toll Booths and Misc. Bridge Repairs - Construction Program (Line 26)  
 US 301 Harry W. Nice Memorial Bridge - Improvement Study - Development and Evaluation Program (Line 31)

**STATUS:** Engineering is underway. Construction is to begin in FY 2013.

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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY					
					....2014....	....2015....	....2016....	....2017....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	507	86	239	91	91	0	0	0	421	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	13,200	0	0	6,600	6,600	0	0	0	13,200	0
<b>Total</b>	<b>13,707</b>	<b>86</b>	<b>239</b>	<b>6,691</b>	<b>6,691</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,621</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost increased by \$3.7 million due to scope change including deck sealing, more inclusive painting of superstructure and additional repairs to steel superstructure elements.



**PROJECT:** US 301 Harry W. Nice Memorial Bridge - Rehabilitate and Realign Approach Roadway, Replace Toll Booths and Misc. Bridge Repairs

**DESCRIPTION:** Rehabilitate and realign the approach roadways, replace the existing toll booths and perform misc. structural repairs.

**PURPOSE & NEED SUMMARY STATEMENT:** The existing toll booths and approach roadways are nearing the end of their useful life. Minor bridge repair has also been identified as needed.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**EXPLANATION:** The existing toll booths and approach roadways are nearing the end of their useful life and need replacement. Misc. structural repairs will also be performed on the bridge.

**ASSOCIATED IMPROVEMENTS:**

- US 301 Harry W. Nice Memorial Bridge - Clean and Paint Structural Steel and Miscellaneous Structural Repairs - Construction Program (Line 25)
- US 301 Harry W. Nice Memorial Bridge - Improvement Study - Development and Evaluation Program (Line 31)

**STATUS:** Open to service.

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 2011			2012	2013	....2014....	....2015....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	689	689	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	10,185	9,451	734	0	0	0	0	0	734	0
<b>Total</b>	<b>10,874</b>	<b>10,140</b>	<b>734</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>734</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



**PROJECT:** Authority-wide - Upgrade MDTA Radio Communication Systems (700 MHz System)

**DESCRIPTION:** The State of Maryland intends to purchase an integrated statewide wireless communications system. The system will operate with the 700/800 MHz band frequencies. The implementation of the system will incorporate a phased deployment methodology. The Maryland Transportation Authority will be the first agency to work within this statewide project. MDTA is in Phase 1 Region 1-A which consists of BWI, ICC, Tunnel Command, Nice Bridge, Bay Bridge, and JFK North.

**PURPOSE & NEED SUMMARY STATEMENT:** The upgraded radio communications systems will provide state, local, and regional public first responders' real time operable and interoperable voice and data services that support Day-to-Day, Mutual Aid, and Task Force operations.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** The upgraded radio communications systems will provide state, local, and regional public first responders' real time operable and interoperable voice and data services that support Day-to-Day, Mutual Aid, and Task Force operations.

**STATUS:** Design is 65% complete. Final design review is scheduled for early FY 2012.

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 2011			2012	2013	....2014....	....2015....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	1,680	1,278	200	202	0	0	0	0	402	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	22,000	2,000	10,000	10,000	0	0	0	0	20,000	0
<b>Total</b>	<b>23,680</b>	<b>3,278</b>	<b>10,200</b>	<b>10,202</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,402</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** None.



**PROJECT:** Authority-wide - Procure, Upgrade, Repair and Replace Signs Including Dynamic Message Signs and Sign Structures

**DESCRIPTION:** Upgrade and replace signs and sign structures and perform miscellaneous repairs. Also, supply dynamic message signs (DMS) for a 5 year period to support about 20+ projects that are replacing or installing new DMS throughout MDTA's facilities. The project also provides for preventive maintenance, emergency maintenance, and parts and supplies as needed to maintain the DMS signs.

**PURPOSE & NEED SUMMARY STATEMENT:** Existing DMS signs are experiencing reliability issues and other signs and sign structures are worn. This improvement will also bring signs and other safety features MDTA-wide up to latest standards.

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

- Quality of Service
- System Preservation & Performance
- Connectivity for Daily Life
- Safety & Security
- Environmental Stewardship

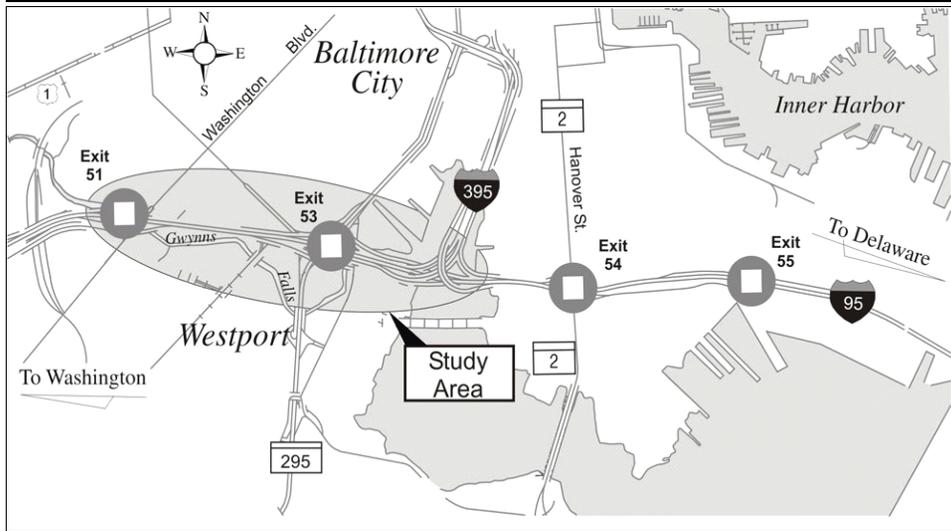
**ASSOCIATED IMPROVEMENTS:** None.

**EXPLANATION:** Existing signs, sign structures and DMS signs are worn, requiring upgrades and replacement.

**STATUS:** 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		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2011			2012	2013	....2014....	....2015....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	4,101	4,101	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	25,193	13,235	10,500	1,458	0	0	0	0	11,958	0
Total	29,294	17,336	10,500	1,458	0	0	0	0	11,958	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$5.5 million due to low bid price.



**PROJECT:** I-95 Fort McHenry Tunnel - Carroll Camden Access Study

**DESCRIPTION:** Study to improve access to the Carroll Camden development area and improve safety and operations along I-95 between Washington Boulevard and I-395.

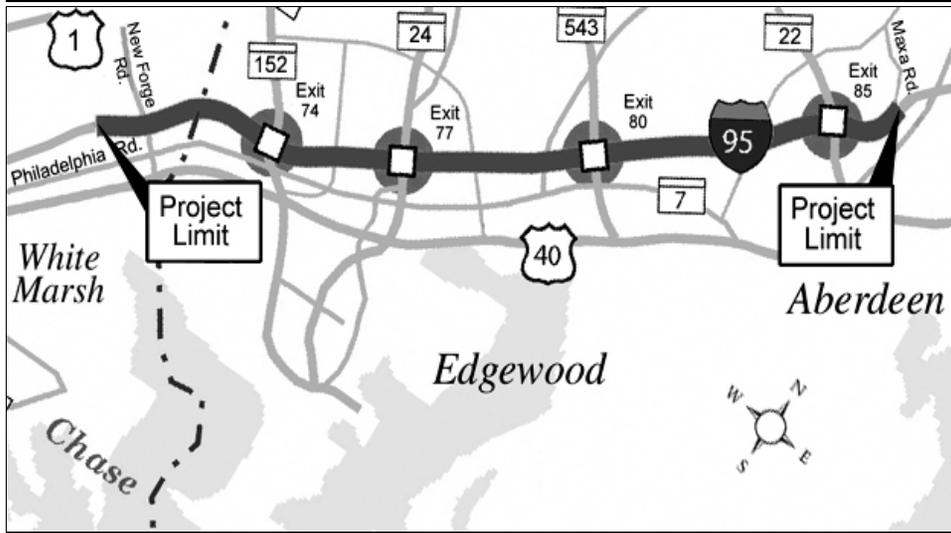
**JUSTIFICATION:** Improved access could help facilitate the redevelopment of the Carroll Camden area in Baltimore City and improve safety and operations along I-95.

**ASSOCIATED IMPROVEMENTS:** None.

**STATUS:** Feasibility study completed in June 2004. Interstate Access Point Approval (IAPA) study results show a negative impact on I-95 operations if additional interchange ramps are added. Waiting for Traffic Impact Study for the proposed casino in the City.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
Planning	563	542	21	0	0	0	0	0	0	21	0
Engineering	0	0	0	0	0	0	0	0	0	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>563</b>	<b>542</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0	0



**PROJECT:** I-95 John F. Kennedy Memorial Highway - Section 200 Study

**DESCRIPTION:** Investigate capacity and safety needs on I-95 from north of MD 43 to north of MD 22 (18 miles) including new park and ride facilities at I-95/MD 152 and I-95/MD 24 interchanges. (BRAC related.)

**JUSTIFICATION:** South of MD 152, I-95 operates at Level of Service (LOS) E (marginal service, irregular flow with speed variations) during weekday peak hours. Elsewhere, it operates at LOS D (reduced speeds, some congestion) or better during weekday and weekend peak traffic periods. Without improvements, the LOS is expected to decrease by 2020, with some study sections operating at an undesirable LOS F (lowest level of efficiency, frequent slowing required) during weekday and weekend periods.

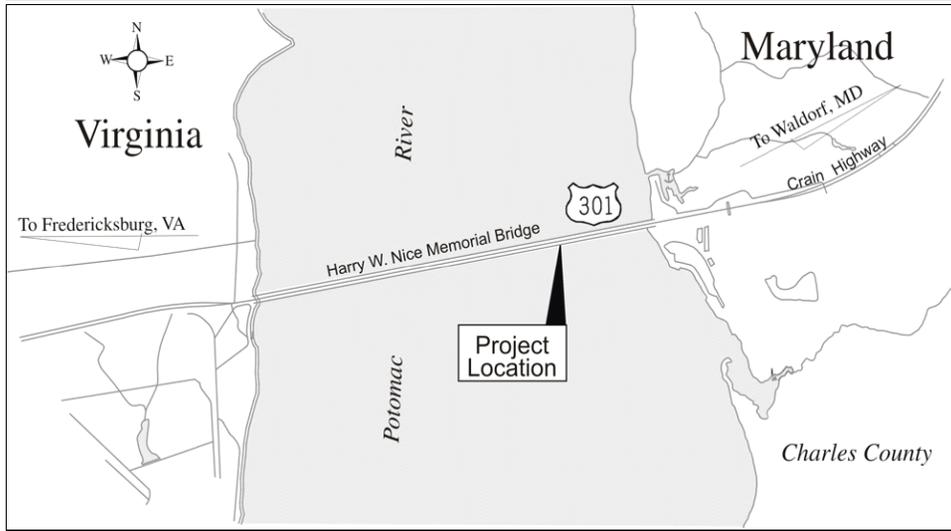
**ASSOCIATED IMPROVEMENTS:**

- I-95 Express Toll Lanes - Construction Program (Line 1)
- I-95 Interchange Improvements at MD 24 - Construction Program (Line 2)
- I-95 New Maintenance Facility (Line 4)

**STATUS:** Planning phase is complete.

PHASE	TOTAL ESTIMATED EXPEND		CURRENT YEAR	BUDGET YEAR	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	COST (\$000)	THRU 2011			2012	2013	.....2014.....	.....2015.....		
Planning	2,476	2,476	0	0	0	0	0	0	0	0
Engineering	4,647	4,647	0	0	0	0	0	0	0	0
Right-of-way	236	236	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>7,359</b>	<b>7,359</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Federal-Aid	0	0	0	0	0	0	0	0	0	0

**SIGNIFICANT CHANGE FROM FY 2011 - 16 CTP:** Cost decreased by \$3.6 million due to planning phase being completed under budget.



**PROJECT:** US 301 Harry W. Nice Memorial Bridge - Improvement Study

**DESCRIPTION:** Investigate capacity and safety needs of the bridge and approaches.

**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:**  
None.

**STATUS:** Planning is underway.

**SIGNIFICANT CHANGE FROM FY 2011 - 16 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 2011	CURRENT YEAR 2012	BUDGET YEAR 2013	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY	FOR PLANNING PURPOSES ONLY		
					.....2014.....	.....2015.....	.....2016.....	.....2017.....		
Planning	6,500	6,250	250	0	0	0	0	0	250	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
<b>Total</b>	<b>6,500</b>	<b>6,250</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>0</b>
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 ESTIMATED COST (\$000's)	CONSTRUCTION START
<u><b>FY 2012 and Prior</b></u>			
<u><b>BALTIMORE HARBOR TUNNEL</b></u>			
1	Rehabilitate Tunnel Lighting and Control System (0264)	2,482	Underway
2	Replace Electrical Vault (0265)	2,017	Underway
3	Study to Rehabilitate or Replace Tunnel Fire Line Gate Valves (2086)	96	Underway
4	Install Environmental Landscape Buffer Along I-895 Right Of Way (Greektown Landscaping) (2163)	18	Underway
5	Replace Water Line - Frankfurst Ave. to Fairfield Service Building (2034)	630	Underway
6	Replace Moravia Road Salt Barn Dome Roof (2139)	145	Underway
7	Install Redundant Feeder to UPS at Fairfield Vent Building (Engineering only) (2266)	50	Underway
8	Rehabilitate K-Truss Bridge Deck (Code 1 System Preservation) (2210)	5,181	Underway
9	Rehabilitate Pavement between Toll Plaza and the K-Truss Bridge (2037)	2,650	Underway
10	Replace Drainage Pipe in Fresh Air Duct (Code 1 System Preservation) (2213)	5,578	Underway
11	Replace Dynamic Message Signs & Lane Use Signals with LED Based Technology (0281)	1,491	Underway
12	Replace Overheight Detection System (2151)	544	Underway
13	Replace Roof and Repair HVAC of Fairfield Service Building (2036)	2,441	Underway
14	Replace Roofs at the Baltimore Harbor Tunnel Campus (Engineering only) (2247)	15	Underway
15	Study Sound Barriers (2233)	390	Underway
16	Chesapeake Bay TMDL Stormwater Management Retrofits (Engineering only) (2284)	500	Summer, 2011
17	Zone Painting Various Bridges along BHT (Engineering only) (2279)	50	Summer, 2011
18	Replace Vent Fans (Engineering only) (2263)	380	Fall, 2011
19	Cleaning and Painting of Structural Steel - Phase I (2253)	5,000	Spring, 2012
<u><b>F.S.KEY BRIDGE</b></u>			
20	Reconstruct Service Road #3 at FSK Facility (Engineering only) (2234)	775	Complete
21	Renovate Engineering Building (2028)	1,097	Underway
22	Fatigue Retrofits at Curtis Creek - Engineering only (Code 2 System Preservation) (2214)	950	Underway
23	Renovate Maintenance Garage Building (2024)	1,553	Underway
24	Replace Roof of Police Headquarters (0478)	578	Underway
25	Replace Roofs of Administrative & Maintenance Buildings (2020)	843	Underway

**SYSTEM PRESERVATION MINOR PROJECTS PROGRAM**

**MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2012 and Prior (cont'd)</u></b>			
<b><u>F.S.KEY BRIDGE (cont'd)</u></b>			
26	Replace Breaker and Miscellaneous Electrical Repairs (Code 1 System Preservation) (2203)	284	Underway
27	Replace Light Poles on Francis Scott Key Bridge (2150)	1,036	Underway
28	Replace Roofs at the Francis Scott Key Bridge Campus (Engineering only) (2244)	74	Underway
29	Replace Underground with Aboveground Storage Tanks - Engineering only (Code 2 System Preservation) (2202)	200	Underway
30	Upgrade HVAC Systems at Administration Building (2022)	53	Underway
31	Clean and Paint Structural Steel - Phase I (2258)	3,770	Spring, 2012
<b><u>FORT MCHENRY TUNNEL</u></b>			
32	Monitor Drainage at FMT Race Street Bridge (2095)	310	Underway
33	Upgrade Central Utility Plant (1477)	1,304	Underway
34	Repair Tunnel Fire Protection System (1401)	6,311	Underway
35	Replace and Rehabilitate Electrical Switchgear (1476)	3,871	Underway
36	Replace I-95/I-395 Joints and Misc. Repairs South of Tunnel (Engineering only) (2207)	1,180	Underway
37	Replace Vent Building Roofs and Misc. Building Modifications (1402)	2,397	Underway
38	Replace Weathering Steel High Mast Light Poles (Engineering only - Code 2 System Preservation) (2206)	592	Underway
39	Repair Hanover Street Ramp (2157)	1,626	Underway
40	Replace Administration Building Generator (2138)	223	Underway
41	Replace Dynamic Message Signs and Lane Use Signals with LED Based Technology (1463)	2,353	Underway
42	Replace Roofs at the Ft. McHenry Tunnel Campus (Engineering only) (2243)	105	Underway
43	Study East Vent Building HVAC (2231)	25	Underway
44	Study Unified Operations Center (2250)	50	Underway
45	Superstructure Repair on I-395 and Zone Painting along FMT South (2262)	762	Underway
46	Zone Painting Various Bridges along FMT North (2256)	361	Underway
47	Renovate FMT Buildings (Engineering only) (2285)	219	Summer, 2011
48	Repair or Rehabilitate FMT Vent Fans (Engineering only) (2251)	100	Summer, 2011
49	Replace or Rehabilitate FMT Toll Booths (Engineering only) (2278)	150	Summer, 2011
50	Replace or Rehabilitate Tunnel Lighting System (Engineering only) (2269)	200	Fall, 2011

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**MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2012 and Prior (cont'd)</u></b>			
<b><u>HATEM BRIDGE</u></b>			
51	Replace Roof of the Hatem Bridge Admin. Bldg. (Engineering only) (2246)	31	Underway
52	Rehabilitate Approach Roadways (Engineering only) (2273)	390	Summer, 2011
53	Replace Underground with Aboveground Storage Tank (Engineering only - Code 2 System Preservation) (2222)	150	Summer, 2011
<b><u>INTERCOUNTY CONNECTOR</u></b>			
54	Virtual Weigh Study (2230)	75	Fall, 2011
<b><u>KENNEDY HIGHWAY</u></b>			
55	Monitor Ground Water Recovery System at Maryland House Sunoco Station (1264)	149	Underway
56	Replace 5KV Cable for Rt. 222 Interchange (2155)	320	Underway
57	I-95/MD222 Concept Study (Planning only) (2237)	425	Underway
58	Modify Drainage to Hand Boxes (2057)	375	Underway
59	Monitor Mitigation of White Marsh Run and Stemmers Run (2188)	1	Underway
60	Replace Roofs at JFK Memorial Highway Campus (Engineering only) (2241)	285	Underway
61	Salt Barn at MD 7 and I-695 (Joint project with SHA) (2181)	2,140	Underway
62	Facility-Wide Hot Mix Asphalt Resurface (Engineering only) (2261)	1,500	Underway
63	Replace Underground Storage Tank with Aboveground Storage Tank-Maintenance 1 (Engineering only) (2218)	150	Underway
64	Chesapeake Bay TMDL Stormwater Management Retrofits - JFK (Engineering only) (2283)	500	Summer, 2011
65	Deck Sealing Various Bridges along JFK (Engineering only) (2282)	50	Summer, 2011
66	Overlay Deck & Repair - Bouchelle Road & MD 213 over I-95 (Engineering only) (2275)	300	Summer, 2011
67	Renovate Buildings - JFK (Engineering only) (2272)	50	Summer, 2011
68	Zone Painting Various Bridges along JFK (Engineering only) (2281)	50	Summer, 2011
69	Clean and Paint Structural Steel on JFK Bridges (Code 1 System Preservation) (2238)	3,908	Fall, 2011
70	Modify Expansion Joints on the Tydings Bridge (SB) and Miscellaneous Structural Repair (2182)	5,800	Fall, 2011
71	Clean and Paint Structural Steel - Phase II (2257)	7,384	Spring, 2012
72	Replace JFK Administration Building 230kW Generator (2239)	290	Spring, 2012

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**MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
	<b><u>FY 2012 and Prior (cont'd)</u></b>		
	<b><u>MULTI-AREA</u></b>		
73	Replace Electronic Toll System and Operation System - Next Generation (1958)	47,656	Complete
74	Clean and Paint, Bearing Repairs, Modify Joints & Misc. Repairs at BHT and FSK Bridges (1940)	8,165	Complete
75	On-Going Miscellaneous Upgrade/Replace Highway Signs, Pavement Markers & RPM (1980)	4,091	Underway
76	Install Closed Circuit TV Systems and Fiber Optic Spurs along I-95 (1974)	8,410	Underway
77	Repair and Replace Electronic Equipment - Reserves (1902)	1,101	Underway
78	Study Toll Facility Cost Allocation (2002)	309	Underway
79	Upgrade Authority Operation Center at FMT and BHT (1954)	9,003	Underway
80	Building Security Improvements - Phase II (1983)	8,127	Underway
81	Evaluate and Upgrade Security Related Plans (1467)	265	Underway
82	Install Radio Rebroadcast Systems in Fort McHenry and Harbor Tunnels (1963)	913	Underway
83	On-Call Miscellaneous Structural Repairs at Various Facilities (1900)	8,441	Underway
84	Information Technology Strategic Plan (1942)	2,824	Underway
85	Install Highway Advisory Radio Transmitters and Signs - JFK and WPL (2008)	1,129	Underway
86	International Electrical Testing Association (NETA) Electrical Testing - BHT and FMT (2125)	23	Underway
87	Law Enforcement IT Systems Plan - Multi-Area (2060)	9,375	Underway
88	NPDES Environmental Compliance Inspection and Remediation (2007)	19,263	Underway
89	Replace Electronic Toll Collection and Operating System - 3rd Gen. (Engineering only) (2147)	12,184	Underway
90	Study FMT/BHT Campus Master Plans (2044)	61	Underway
91	University of Maryland- Concept of Operations for Congestion Management (2133)	90	Underway
92	Annual Inspection of Authority Facilities (2084)	21,109	Underway
93	Comprehensive Building Inspection Program (2177)	1,000	Underway
94	Conduct Authority Market Research (2170)	200	Underway
95	Miscellaneous Paving Repairs (2142)	4,697	Underway
96	On-Call Furnishing and Installation of Camera and CODEC Equipment (2014)	4,287	Underway
97	Right-of-Way and General Fencing at Various Locations (2144)	836	Underway
98	Study to Evaluate Toll Booth Condition (2094)	90	Underway
99	Evaluate Condition of Deck, Superstructure & Substructures All Facilities (Engineering only) (2083)	3,332	Underway
100	On-Call Miscellaneous Shotcrete Repair (2149)	10,004	Underway

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**MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2012 and Prior (cont'd)</u></b>			
<b><u>MULTI-AREA (cont'd)</u></b>			
101	On-Call Structural Repairs and Miscellaneous Modifications (2124)	5,790	Underway
102	On-Call Structural Repairs and Miscellaneous Modifications (2168)	13,200	Underway
103	On-Call Structural Repairs and Miscellaneous Modifications (2171)	13,200	Underway
104	Open Road Tolling Authority-wide Feasibility Study (2183)	590	Underway
105	Replace Intercom Systems at Toll Collection Booths - Authority wide (2162)	260	Underway
106	Speed Camera Program (2223)	100	Underway
107	Study E-ZPass Disaster Recovery Needs (2225)	100	Underway
108	Upgrade and Replace Metal Barriers and Attenuators (1922)	2,652	Underway
109	Energy Lease Program (2078)	10,253	Underway
110	E-Zpass IVR Voice Recognition Upgrade (2248)	150	Underway
111	Furnish and Install Radiax Cable within Tunnels (2156)	1,929	Underway
112	Miscellaneous Paving Repairs (Code 1 System Preservation) (2193)	12,800	Underway
113	Miscellaneous Roadway Lighting Repairs and Modifications (1913)	4,273	Underway
114	Mitigate Flood at Fairfield Ventilation and Service Buildings - FMT and BHT (0290)	600	Underway
115	On-Call Structural Repairs and Misc. Modifications (2254)	15,700	Underway
116	On-Call Structural Repairs and Miscellaneous Modifications (2176)	15,700	Underway
117	Replace Navigational Lighting Systems to Francis Scott Key, Nice Memorial Bridge and Bay Bridge (2074)	2,403	Underway
118	Study Commercial Vehicle Inspection Facilities at the BHT, KB, FMT (2073)	255	Underway
119	Overlay Decks - Various Bridges (2270)	500	Underway
120	Replace Generators (2265)	331	Underway
121	Install Security Systems/Video Surveillance at 5 Major Bridges (1966)	7,671	Fall, 2011
122	On-Call Shotcrete Repairs and Miscellaneous Modifications (2227)	13,500	Fall, 2011
123	Upgrade and Replace Metal Traffic Barriers and Attenuators (Code 1 System Preservation) (2195)	6,150	Fall, 2011
124	Design & Construct Security Fencing at Shores of Major Bridges (TJH, FSK, HWN, Tydings & WPL) (2130)	1,850	Spring, 2012
125	On Call Facility/Building Repairs (2240)	4,600	Spring, 2012
126	On-Call Misc. Electrical Repairs (5-year) (2236)	1,165	Spring, 2012

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**MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
<b><u>FY 2012 and Prior (cont'd)</u></b>			
<b><u>NICE BRIDGE</u></b>			
127	Fog Detection and Warning System (2154)	60	Underway
128	Renovate Administration Building (1025)	2,103	Underway
129	Replace Roof of Garage Bldg. & Upgrade HVAC of Maintenance and Storage Bldgs. (Engineering only) (2271)	20	Summer, 2011
130	Replace Underground Storage Tanks with Aboveground Storage Tanks (Engineering only) (2200)	52	Summer, 2011
<b><u>POINT BREEZE</u></b>			
131	Replace Roof of Garage Building (2108)	659	Underway
132	Replace Roofs at the Point Breeze Campus (Engineering only) (2242)	167	Underway
<b><u>W. P. LANE BRIDGE</u></b>			
133	Reconstruct/Rehab Pavement - Eastbound & Westbound Approaches to Bay Bridge (2053)	241	Underway
134	Rehabilitate Toll Collector Tunnel (2050)	75	Underway
135	Replace Traffic System Controllers, Signals and Communications and Replace Cameras and Remount (0651)	7,778	Underway
136	Replace Roof on Administration/Maintenance Building (2047)	414	Underway
137	Fatigue Retrofits at Bay Bridge - Engineering only (Code 2 System Preservation) (2217)	363	Underway
138	Replace Roofs at William P. Lane Memorial Bridge Campus (Engineering only) (2245)	66	Underway
139	Install Roadway Weather Information System (Engineering only) (2264)	21	Underway
140	Clean and Paint Bay Bridge Westbound - Phase III (Engineering only) (2259)	1,500	Summer, 2011
141	Rehabilitate Toll Booths (Engineering only) (2276)	20	Summer, 2011
142	Rehabilitate Westbound Bridge Barrier (Engineering only) (2274)	450	Summer, 2011
143	Replace Underground Tanks at Administration Building & Police West Garage - Bay Bridge (2051)	1,156	Summer, 2011
144	Study Bay Bridge Westbound Centralized UPS to Carry BGE feeder (Engineering only) (2268)	105	Summer, 2011
145	Renovate Bay Bridge Conduit Hangers (Engineering only) (2267)	96	Fall, 2011
146	Replace Existing DMS at Bridge and Install New DMS - east of MD 404 (1914)	938	Fall, 2011
147	Clean and Paint Bay Bridge Westbound - Phase IV (Engineering only) (2260)	1,500	Spring, 2012
148	Install 4 Isolation Points and Access Ladder - Eastbound Bay Bridge (2054)	852	Spring, 2012

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**MARYLAND TRANSPORTATION AUTHORITY - LINE 32 (cont'd)**

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL ESTIMATED COST (\$000's)	CONSTRUCTION START
	<u>FY 2013</u>		
	<u>BALTIMORE HARBOR TUNNEL</u>		
149	Clean and Paint Structural Steel - Phase II (2255)	6,436	Summer, 2012
	<u>F.S.KEY BRIDGE</u>		
150	Clean and Paint Structural Steel - Bear Creek Bridge (2252)	7,610	Summer, 2012
	<u>MULTI-AREA</u>		
151	Furnish, Deliver, Commission, Warranty and Maintain DMS (2229)	1,439	Summer, 2012