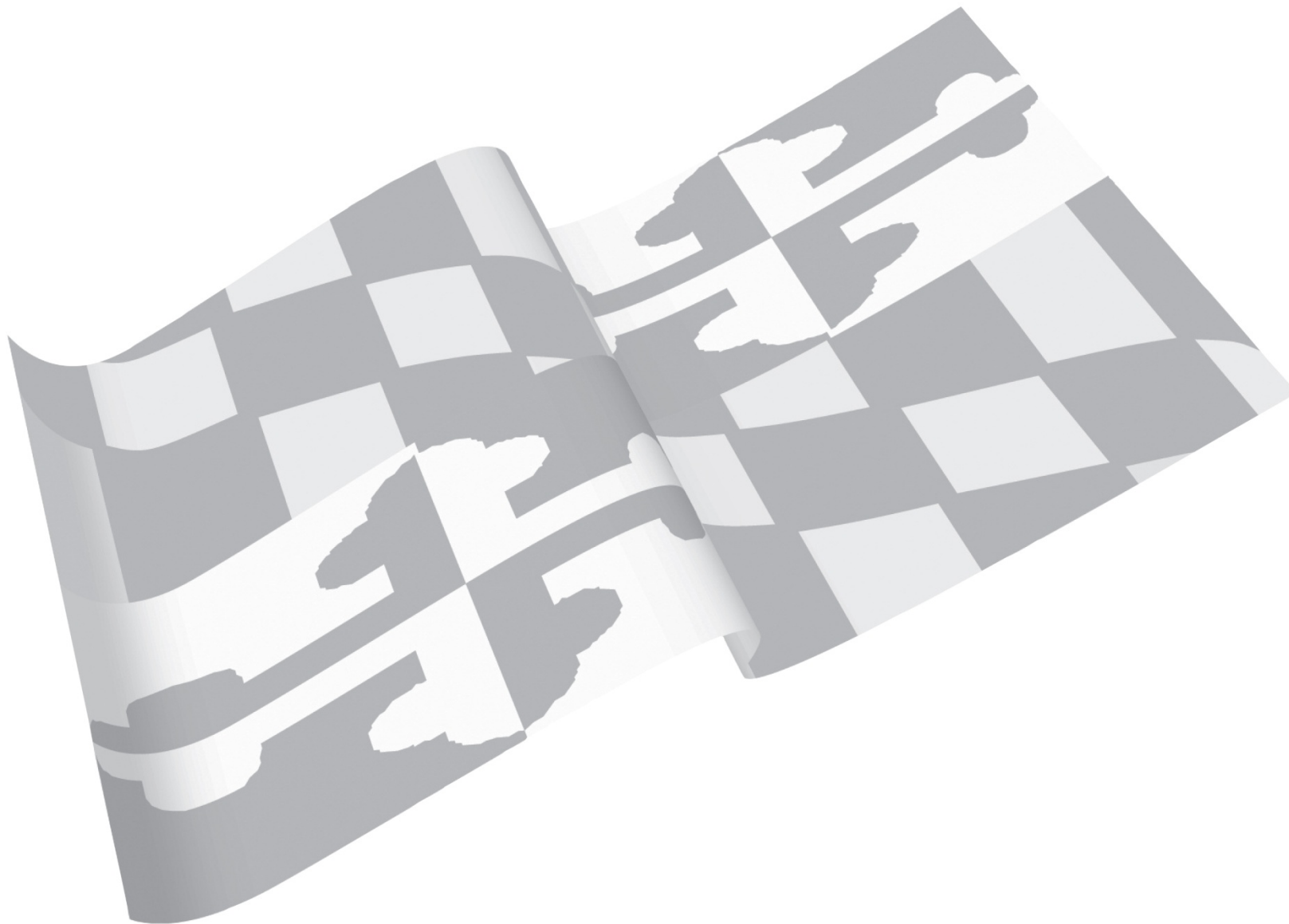




MDOT MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND AVIATION ADMINISTRATION

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

	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>SIX-YEAR TOTAL</u>
<u>Construction Program</u>							
Major Projects	245.5	278.8	214.2	72.0	3.5	1.8	815.9
System Preservation Minor Projects	66.3	25.9	25.1	11.8	29.2	15.3	173.5
<u>Development & Evaluation Program</u>	<u>4.1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>4.1</u>
SUBTOTAL	316.0	304.7	239.3	83.8	32.7	17.1	993.5
<u>Capital Salaries, Wages & Other Costs</u>	<u>7.0</u>	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	<u>7.0</u>	<u>7.0</u>	<u>40.5</u>
TOTAL	323.0	311.2	245.8	90.3	39.7	24.1	1,034.0
Special Funds	103.9	52.4	32.2	16.9	34.3	20.6	260.3
Federal Funds	30.4	7.8	11.0	11.0	3.5	3.5	67.2
Other Funding *	188.6	251.0	202.6	62.4	1.9	-	706.5

Other Funding Breakdown*

CFC	1.6	2.1	-	-	-	-	3.7
COPS	13.5	-	-	-	-	-	13.5
MdTA	25.9	21.9	21.9	12.4	-	-	82.0
Noise AIP	1.2	-	-	-	-	-	1.2
PFC Bond	54.6	25.5	25.5	10.1	-	-	115.7
Revenue Bond	84.5	186.4	153.4	38.1	1.9	-	464.2
VW	-	12.5	-	-	-	-	12.5
PFC	<u>7.4</u>	<u>2.6</u>	<u>1.9</u>	<u>1.9</u>	<u>-</u>	<u>-</u>	<u>13.7</u>
	188.6	251.0	202.6	62.4	1.9	-	706.5



PROJECT: Regional Aviation Assistance Program

DESCRIPTION: The Statewide Aviation Grant Program provides State funding to match federal funding to government or public-owned airports for the repair and upgrade of runways, taxiways, ramps, and lighting systems, as well as, for the removal of trees and other obstacles from runway approaches. If the airport meets the program criteria the Federal Aviation Administration (FAA) will cover 90% of the costs with the State and the airport each contributing 5 percent of the total project cost. Assistance is also provided to private-owned airports, open to the public, for financial grants to improve runways, taxiways, navigation aids, and other safety related projects.

JUSTIFICATION: This program supports the goals of the Maryland Department of Transportation to meet air service needs of Maryland and to promote safety and security, environmental stewardship, and economic development. There are over 130 licensed and registered airports in the State, of which 35 are public use facilities with three offering air carrier service.

SMART GROWTH STATUS: ☒ Project Not Location Specific ☐ Not Subject to PFA Law

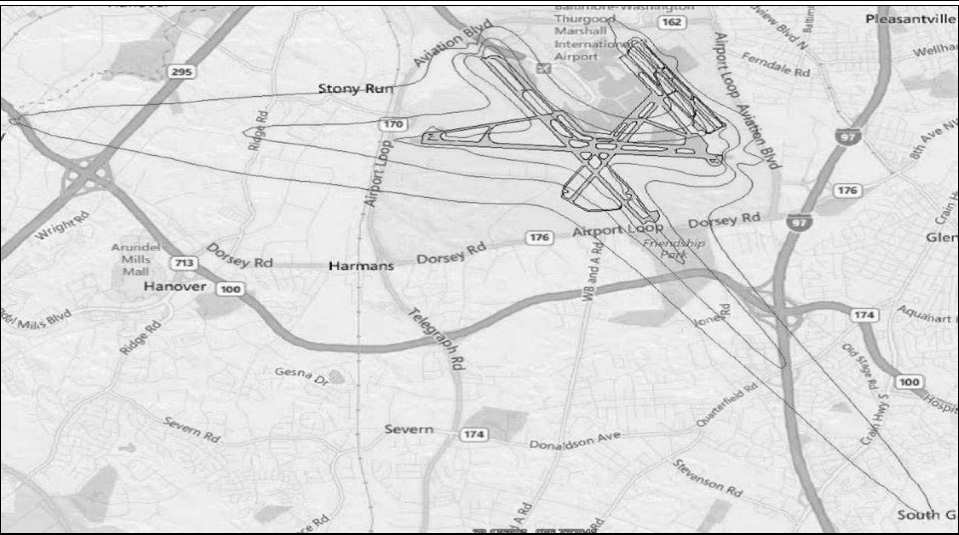
☐ Project Inside PFA	☐ Grandfathered
☐ Project Outside PFA	☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined	☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

STATUS: Federal fiscal year 2020 grant development underway.

POTENTIAL FUNDING SOURCE: ☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☐ OTHER										
PHASE	TOTAL		CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2019			2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	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	70,213	58,763	2,350	2,350	1,650	1,650	1,650	1,800	11,450	0
Total	70,213	58,763	2,350	2,350	1,650	1,650	1,650	1,800	11,450	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Project cost increased \$1.8M due to the addition of fiscal year 2025.



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

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

EXPLANATION: This program enhances the environment of neighboring communities by providing homeowner sound mitigation for people living within designated noise zones near BWI Marshall Airport.

PROJECT: Residential Sound Insulation Program

DESCRIPTION: This voluntary program provides for the mitigation of aircraft noise for residential properties that currently fall within the 65 DNL Noise Exposure Map (NEM) contours approved by the Federal Aviation Administration. Under this multi-year program, eligible homeowners may elect to have their homes sound insulated to an interior noise level of 45 DNL in accordance with MAA standards. The State will receive an aviation easement for each property participating in the program.

PURPOSE & NEED SUMMARY STATEMENT: This program enhances the home environment for residents in communities neighboring BWI Marshall Airport that are located within the NEM contours by providing sound insulation improvements to their homes or if elected property acquisition.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

- ☒ Project Inside PFA
- ☐ Project Outside PFA
- ☐ PFA Status Yet to Be Determined
- ☐ Grandfathered
- ☐ Exception Will Be Required
- ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

STATUS: Passenger Facility Charge (PFC) application approved March 2019. Federal funds to be requested from the AIP Noise and Environmental Set Aside.

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Cost decrease of \$10.6 million reflects scope and cost of approved PFC application.

POTENTIAL FUNDING SOURCE:		☐ SPECIAL ☒ FEDERAL ☐ GENERAL ☒ 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 2019			2022.....	2023.....	2024.....	2025.....			
Planning	0	0	0	0	0	0	0	0	0	0	0
Engineering	3,382	0	616	923	923	920	0	0	3,382	0	0
Right-of-way	0	0	0	0	0	0	0	0	0	0	0
Construction	30,998	0	5,637	8,454	8,454	8,453	0	0	30,998	0	0
Total	34,380	0	6,253	9,377	9,377	9,373	0	0	34,380	0	0
Federal-Aid	27,503	0	5,001	7,501	7,501	7,500	0	0	27,503	0	0

Other funding sources are Passenger Facility Charge (PFC) revenue.
2197

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

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

EXPLANATION: Passenger ease of movement and airport access is a primary focus of the airport. These improvements provide reliable connections to and from airport operated parking facilities, and Amtrak/MARC rail station. BWI Marshall Airport supports the movement of people, goods and State economy.

PROJECT: Shuttle Bus Service Fleet Replacement at BWI Marshall Airport

DESCRIPTION: This project will purchase a maximum of fifty, 40-foot and 60-foot buses to be powered by clean diesel and electric for shuttle bus services to and from airport operated parking facilities and the Amtrak BWI Rail Station.

PURPOSE & NEED SUMMARY STATEMENT: The current fleet of 49 buses was purchased in 2004 and have passed their useful life of 12 years. The timely replacement of the existing buses will ensure sufficient capacity to handle customer growth, maintain service levels, and ensure passenger delays are not due to equipment.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

- | | |
|--|---|
| ☒ Project Inside PFA | ☐ Grandfathered |
| ☐ Project Outside PFA | ☐ Exception Will Be Required |
| ☐ PFA Status Yet to Be Determined | ☐ Exception Granted |

ASSOCIATED IMPROVEMENTS:

None.

STATUS: Forty clean diesel buses received. Remaining 10 will be electric buses.

POTENTIAL FUNDING SOURCE:

- ☐ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2019	CURRENT YEAR 2020	BUDGET YEAR 2021	FOR PLANNING PURPOSES ONLY					
					2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	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	37,745	11,661	13,525	12,559	0	0	0	0	26,084	0
Total	37,745	11,661	13,525	12,559	0	0	0	0	26,084	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

The other funding source is Certificate of Participation (COPS).

2210

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

USAGE: Over 1,000 daily trips with approximately 4 million riders annually.

OPERATING COST IMPACT: Operating costs will be recovered through airport user fees.



PROJECT: Midfield Cargo Area Improvements at BWI Marshall Airport

DESCRIPTION: This project consists of improvements to the Midfield Cargo Complex facilities, expansion of apron and taxilane, aircraft parking positions. Improvements include expansion for new pavement, security enhancements, building modifications, apron pavement rehabilitation, additional aircraft parking positions, overlay and extension of Taxiway Z, and tenant relocation costs.

PURPOSE & NEED SUMMARY STATEMENT: These improvements will provide additional facility and apron space for expanded cargo operations, and preserves the existing airfield pavement to minimize aircraft exposure to Foreign Object Debris (FOD).

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

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

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

EXPLANATION: This project provides compliance with FAA Part 139 regulations. Pavement and deicing improvements, new aircraft parking positions, taxilane modifications, and FAA standards ensure airfield pavement and safety is maximized. The expansion of BWI Marshall Airport cargo operations supports the movement of people, goods and State economy.

STATUS: Active elements include: Taxilane Z rehabilitation and extension is under construction with Spring 2020 construction completion..

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Cost decrease of \$10.6 million due to removal of PFC funding for deicing system expansion. Federal grant for \$10.1 million received toward Taxilane Z rehabilitation.

USAGE: Accommodate expanded cargo operations.

OPERATING COST IMPACT: Operating cost recovered mostly through airport user fees.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☒ FEDERAL ☐ GENERAL ☐ OTHER

PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2019	CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					2022.....	2023.....	2024.....	2025.....		
Planning	219	219	0	0	0	0	0	0	0	0
Engineering	1,669	1,453	216	0	0	0	0	0	216	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	34,088	15,208	18,880	0	0	0	0	0	18,880	0
Total	35,976	16,880	19,096	0	0	0	0	0	19,096	0
Federal-Aid	13,496	3,397	10,099	0	0	0	0	0	10,099	0

2195, 2203, 2213, 2223



PROJECT: Concourse B Apron Pavement Reconstruction at BWI Marshall Airport

DESCRIPTION: This project includes the reconstruction of approximately 28,000 square yards of Concourse B apron pavement from gates B6 to B15 adjacent to Taxiway T. This work includes existing pavement demolition and removal, erosion and sediment control, new Portland cement concrete pavement, and pavement markings. The work will be accomplished in stages to minimize impacts to airfield operations and maintain appropriate access for terminal gate usage.

PURPOSE & NEED SUMMARY STATEMENT: The project will enhance airfield safety and operations through reconstruction of pavement to meet Federal Aviation Administration (FAA) standards. The areas identified for upgrades were determined through independent pavement analysis as required by the FAA. The apron pavement dates to 1999 when the concourse was extended making the pavement almost 20 years old. Increasing aircraft weight has contributed to the deterioration of the pavement.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

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

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

EXPLANATION: This project provides for compliance with Public Law 109-115 and FAA Part 139 regulations. The improvements enhance safety by reducing the risk of aircraft damage in the apron area. Pavement improvements and FAA standards ensure airfield pavement is free of cracks and minimize FOD that could impact the aircraft. BWI Marshall Airport supports the movement of people, goods and State economy.

STATUS: Open to use.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☒ FEDERAL ☐ GENERAL ☐ OTHER

PHASE	TOTAL		CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2019			2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	639	457	182	0	0	0	0	0	182	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	9,813	8,519	1,294	0	0	0	0	0	1,294	0
Total	10,452	8,976	1,476	0	0	0	0	0	1,476	0
Federal-Aid	7,809	6,682	1,127	0	0	0	0	0	1,127	0

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost fully recovered through airport user fees.



PROJECT: Concourse A Improvements Phase 2 at BWI Marshall Airport

DESCRIPTION: This project represents the second phase of improvements envisioned during the original Concourse A/B Expansion. The project adds 5 gates sized for B737-800 aircraft by extending the existing Concourse A approximately 234 feet to the northwest, creating a 55,000 square foot addition. The improvements include gates, restrooms, loading bridges, concessions, electrical, mechanical and storage.

PURPOSE & NEED SUMMARY STATEMENT: The project will provide holdrooms designed to ensure required capacity relative to aircraft seats to be used at the new gates for life safety, provide additional aircraft parking positions and gates to deal with capacity constraints during peak periods and provide the ability to reconfigure the existing apron level for safer, improved circulation for people and goods.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

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

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

EXPLANATION: Passenger ease of movement and travel options is a primary focus of the airport. These improvements provide travel flexibility and capacity for new or expanding airline service. BWI Marshall Airport supports the movement of people, goods and State economy.

STATUS: Construction underway with mid 2020 completion. Passenger Facility Charge (PFC) application approved March 2019.

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Budget reduction of \$19.1 million due to favorable project bids.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost mostly recovered through airport user fees.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

PHASE	TOTAL		CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2019			2022.....	2023.....	2024.....	2025.....		
Planning	15	15	0	0	0	0	0	0	0	0
Engineering	8,199	5,834	2,365	0	0	0	0	0	2,365	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	56,241	4,344	51,897	0	0	0	0	0	51,897	0
Total	64,455	10,193	54,262	0	0	0	0	0	54,262	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

Other funding is Maryland Transportation Authority and revenue bonds supported by Passenger Facility Charge (PFC).

9598

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

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

EXPLANATION: Maintaining the infrastructure to provide passengers with a consistent travel experience throughout the airport is a primary focus at BWI Marshall Airport. These improvements represent an allocation of funding toward system preservation improvements to meet these goals. BWI Marshall Airport supports the movement of people, goods and State economy.

PROJECT: Concourse D HVAC Replacement at BWI Marshall Airport

DESCRIPTION: This project will replace the existing HVAC systems serving Concourse DY and commuter portions of Concourse D. Improvements will include: hydronic unit replacement, new 600 ton chiller, new piping and controls, commuter concourse rooftop expansion unit replacement, and the replacement of ceiling systems through Concourses DX, DY and the commuter portions of the concourse.

PURPOSE & NEED SUMMARY STATEMENT: Existing HVAC systems in the DY and commuter portion of the terminal were installed in 1987 and have reached the end of their service life. Replacement systems will improve operational efficiency, reduce operational costs, and improve overall reliability. Replacement of the ceiling will create a uniform appearance throughout the Concourse.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

- | | |
|--|---|
| ☒ Project Inside PFA | ☐ Grandfathered |
| ☐ Project Outside PFA | ☐ Exception Will Be Required |
| ☐ PFA Status Yet to Be Determined | ☐ Exception Granted |

ASSOCIATED IMPROVEMENTS:
None.

STATUS: Project under design. Passenger Facility Charge (PFC) application approved March 2019.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

PHASE	TOTAL		CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2019			2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,189	329	408	726	726	0	0	0	1,860	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	17,365	0	5,787	5,788	5,790	0	0	0	17,365	0
Total	19,554	329	6,195	6,514	6,516	0	0	0	19,225	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

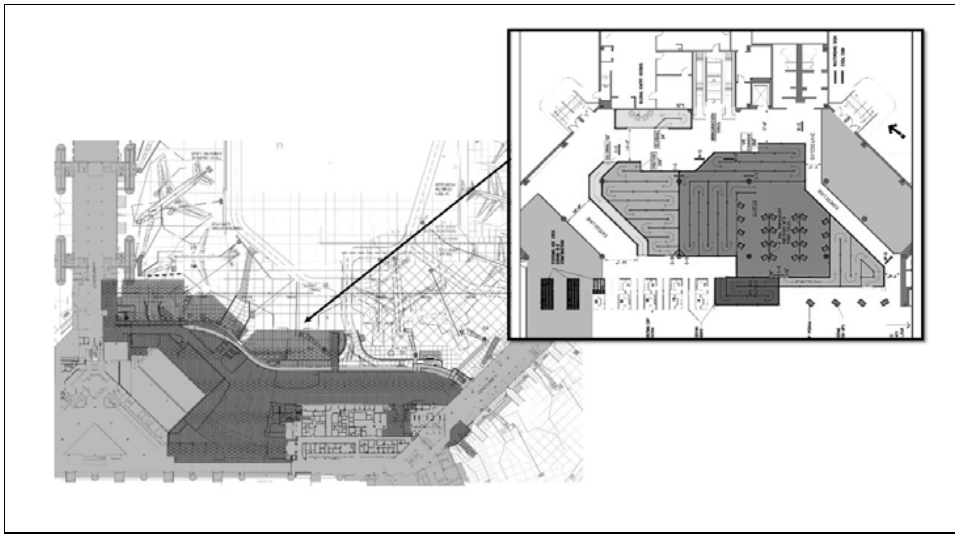
Other funding source is Passenger Facility Charge (PFC) revenue bonds.

2192

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost mostly recovered through airport user fees.



PROJECT: FIS Hall Reconfiguration at BWI Marshall Airport

DESCRIPTION: This project will improve passenger flow in the Federal Inspection Service (FIS) area by implementing Customs and Border Protection's (CBP) new biometrics and "Baggage First" processing approach, and reconfiguring the current Immigration and Customs Halls to provide more space for queuing, passport kiosks, and CBP processing areas.

PURPOSE & NEED SUMMARY STATEMENT: To accommodate growing international travel demand, eight new international arrival gates are being added at BWI Marshall Airport. Currently during peak periods, passengers are often required to wait on the aircraft because of lack of processing space in the FIS hall. FIS hall reconfiguration optimizes the facility to support timely processing of existing passengers and accommodate additional international passengers from the new arrival gates.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

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

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

EXPLANATION: These improvements will improve the passenger processing experience through immigrations by optimizing the facility to process current passenger volumes and accommodate additional international passengers from the new arrival gates. BWI Marshall Airport supports the movement of people, goods and State economy.

STATUS: Preliminary planning updating concept to CBP current standards. Passenger Facility Charge (PFC) application approved March 2019.

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

USAGE: Accommodate projected annual passenger growth.

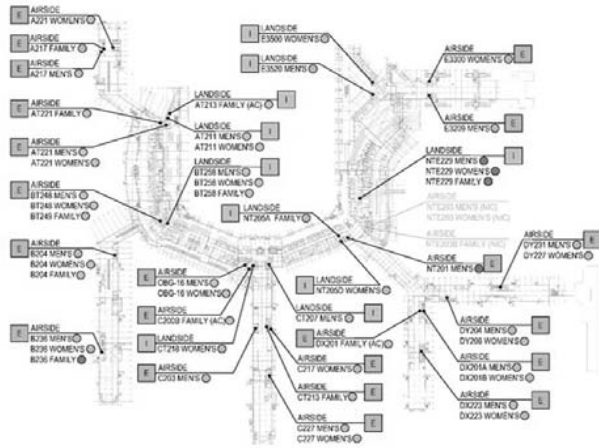
OPERATING COST IMPACT: Operating cost mostly recovered through airport user fees.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2019	CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	1,200	0	1,200	0	0	0	0	0	1,200	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	8,800	0	1,492	3,654	3,654	0	0	0	8,800	0
Total	10,000	0	2,692	3,654	3,654	0	0	0	10,000	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

Other funding source is Passenger Facility Charge (PFC) revenue bonds.



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

PROJECT: Restroom Improvement Program at BWI Marshall Airport

PURPOSE & NEED SUMMARY STATEMENT: Restrooms are consistently the top complaint in passenger service feedback. Many of the restrooms throughout the terminal have exceeded their design life as it has been 15-40 years since their last refurbishment. Other restrooms, particularly in Concourses A and B, were designed to handle 30% fewer passengers than the current demand resulting in a significant shortcoming in restroom capacity.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒	Project Inside PFA	☐	Grandfathered
☐	Project Outside PFA	☐	Exception Will Be Required
☐	PFA Status Yet to Be Determined	☐	Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

USAGE: Accommodate current and projected annual passenger growth.

OPERATING COST IMPACT: Operating cost mostly recovered through airport user fees.

[illegible]

Other funding source is Passenger Facility Charge (PFC) revenue bonds.



PROJECT: Taxiway B Pavement Reconstruction at BWI Marshall Airport

DESCRIPTION: This project will reconstruct Taxiway B between Taxiway N1 and Taxiway T. The work includes a mix of full depth reconstruction along with mill and overlay of existing pavement. Shoulders will be added along the entire length of the taxiway between Taxiway N and Taxiway T to comply with FAA standards. The fillet from Taxiway S to Taxiway N will be enlarged to accommodate aircraft turning movements. Additional improvements include associated grading, drainage, lighting, airfield signage and pavement markings.

PURPOSE & NEED SUMMARY STATEMENT: The project will enhance airfield safety and operations through reconstruction of pavement to meet Federal Aviation Administration (FAA) standards. The areas identified for upgrades were determined through independent pavement analysis as required by the FAA. The pavement is rated in fair to poor condition. The addition of a shoulder will enhance safety.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

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

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

EXPLANATION: This project provides for compliance with Public Law 109-115 and FAA Part 139 regulations. The improvements enhance safety by reducing the risk of aircraft damage by maintaining taxiway pavement condition. Pavement improvements and FAA standards ensure airfield pavement is free of cracks and minimize FOD that could impact the aircraft. BWI Marshall Airport supports the movement of people, goods and State economy.

STATUS: Open to use.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☒ FEDERAL ☐ GENERAL ☒ OTHER

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED	EXPEND	CURRENT	BUDGET	FOR PLANNING PURPOSES ONLY					
	COST (\$000)	THRU 2019	YEAR 2020	YEAR 2021	2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	524	506	18	0	0	0	0	0	18	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	12,852	2,820	10,032	0	0	0	0	0	10,032	0
Total	13,376	3,326	10,050	0	0	0	0	0	10,050	0
Federal-Aid	7,831	2,000	5,831	0	0	0	0	0	5,831	0

Other funding is Noise Escrow Account.
2219

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost fully recovered through airport user fees.



PROJECT: Aircraft Maintenance Facility Infrastructure at BWI Marshall Airport

DESCRIPTION: This project provides infrastructure improvements in support of the development of a full-service aircraft maintenance facility at BWI Marshall Airport. The improvements include utility infrastructure and site grading. Landside and airside access routes will be provided to support operations.

PURPOSE & NEED SUMMARY STATEMENT: At BWI Marshall Airport, airlines need to perform periodic or incidental maintenance on their aircraft. There is insufficient space at either the airline gates or within the terminal and adjacent areas for airlines to perform aircraft maintenance functions. The site provides sufficient area for a facility that will support aircraft maintenance needs.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

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

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

EXPLANATION: This project provides airlines with a location to locally perform periodic or incidental maintenance on their aircraft fleet. Reliable aircraft ensures airlines maintain schedules and minimize delay impact on passengers. Opening of the facility will increase local employment. BWI Marshall Airport supports the movement of people, goods and State economy.

STATUS: Design underway.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ OTHER

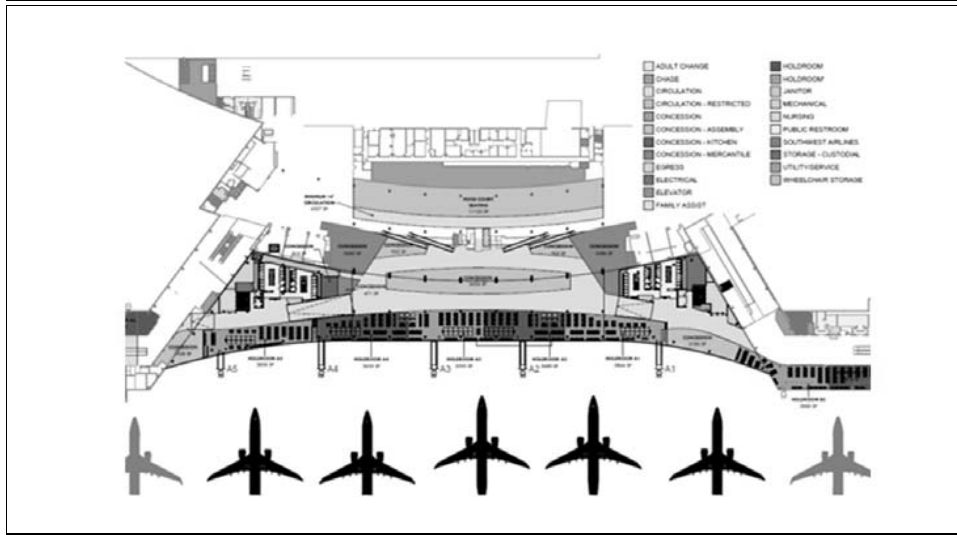
PHASE	TOTAL		CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)	EXPEND THRU 2019			2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	5,028	2,626	448	751	751	452	0	0	2,402	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	64,090	951	7,057	21,865	21,865	12,352	0	0	63,139	0
Total	69,118	3,577	7,505	22,616	22,616	12,804	0	0	65,541	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Cost increase of \$14.1 million represents latest engineering estimate along with enabling projects for site access and underground utilities.

USAGE: Accommodate projected airline maintenance needs.

OPERATING COST IMPACT: Operating cost responsibility of airline.

Other funding is Maryland Transportation Authority loan.
9720, 9721, 9722

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

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

EXPLANATION: Passenger ease of movement and travel options is a primary focus of the airport. These improvements provide travel flexibility and capacity for new or expanding airline service. BWI Marshall Airport supports the movement of people, goods and State economy.

PROJECT: Concourse A/B Connector & Baggage Handling System Replacement at BWI Marshall Airport

DESCRIPTION: This project will comprise a two-level building addition between Concourses A and B to provide space for a new fully in-line baggage handling system in the lower level and a connector between the concourses on the upper level. The project will also provide expanded holdrooms, new restrooms, and concessions.

PURPOSE & NEED SUMMARY STATEMENT: The ability to maintain 100 percent electronic baggage screening, while achieving the necessary capacity to meet projected airline departure flight schedules that are using aircraft with larger seating capacity is dependent upon attaining the maximum utilization of bag screening technology. In addition, the project will expand holdrooms to ensure required capacity relative to aircraft seats, improve passenger amenities, and provide a same level connection between the two concourses.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

- | | |
|--|---|
| ☒ Project Inside PFA | ☐ Grandfathered |
| ☐ Project Outside PFA | ☐ Exception Will Be Required |
| ☐ PFA Status Yet to Be Determined | ☐ Exception Granted |

ASSOCIATED IMPROVEMENTS:
None.

STATUS: Design in progress. First construction package targeted for first quarter 2020.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☒ 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 2019			2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	53,110	2,076	21,929	13,325	9,461	5,396	923	0	51,034	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	448,132	32	86,361	184,228	143,898	32,679	934	0	448,100	0
Total	501,242	2,108	108,290	197,553	153,359	38,075	1,857	0	499,134	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

Other funding source is MDOT Revenue Bond.
9590, 9591, 9592, 9593, 9594, 9597

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Project moved from Development & Evaluation Program to Construction Program, with a cost increase of \$465.3M due to added construction costs.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost mostly recovered through airport user fees.



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

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

EXPLANATION: Maintaining the infrastructure to provide passengers with a consistent travel experience throughout the airport is a primary focus at BWI Marshall Airport. These improvements represent an allocation of funding toward system preservation improvements to meet these goals. BWI Marshall Airport supports the movement of people, goods and State economy.

PROJECT: Concourse A/B Enabling - Central Utility Plant Upgrades at BWI Marshall Airport

DESCRIPTION: This project will replace and upsize existing Chillers 3 and 4 along with their associated cooling towers. Cooling towers supporting previously upsized Chillers 1 and 2 with be right sized to meet the chilled water needs. In addition, the project will upgrade the condenser water loop and pumps to support the water flow needed for the four chillers.

PURPOSE & NEED SUMMARY STATEMENT: Central Utility Plant upgrades are necessary to keep up with airport expansion in order to provide cooling of the terminal complex.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

- ☒ Project Inside PFA
- ☐ Project Outside PFA
- ☐ PFA Status Yet to Be Determined
- ☐ Grandfathered
- ☐ Exception Will Be Required
- ☐ Exception Granted

ASSOCIATED IMPROVEMENTS: None.

STATUS: Under design.

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: New project added to the Construction Program.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost mostly recovered through airport user fees.

POTENTIAL FUNDING SOURCE: ☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☐ 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 2019			2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	900	0	773	127	0	0	0	0	900	0
Right-of-way	0	0	0	0	0	0	0	0	0	0
Construction	9,900	0	2,906	6,994	0	0	0	0	9,900	0
Total	10,800	0	3,679	7,121	0	0	0	0	10,800	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0



PROJECT: Environmental Assessment at Martin State Airport

DESCRIPTION: This project provides for the study necessary for the environmental assessment of Phase 1 capital projects shown on the Airport Layout Plan (ALP) approved by the FAA in July 2011.

JUSTIFICATION: In accordance with Federal Aviation Administration Order 5050.4B, Airport Environmental Handbook, MAA must determine the environmental consequences of capital project development as proposed by the Airport Layout Plan.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

STATUS: Environmental assessment resumed with modified scope and targeted completion in early 2020.

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: None.

POTENTIAL FUNDING SOURCE: ☒ SPECIAL ☒ FEDERAL ☐ GENERAL ☐ OTHER

PHASE	TOTAL				PROJECTED CASH REQUIREMENTS					SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED	EXPEND	CURRENT	BUDGET	FOR PLANNING PURPOSES ONLY						
	COST (\$000)	THRU 2019	YEAR 2020	YEAR 2021	2022.....	2023.....	2024.....	2025.....			
Planning	2,854	2,186	668	0	0	0	0	0	668	0	
Engineering	3	3	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	2,857	2,189	668	0	0	0	0	0	668	0	
Federal-Aid	258	258	0	0	0	0	0	0	0	0	

2010, 2011, 2012



PROJECT: Environmental Assessment at BWI Marshall Airport

DESCRIPTION: This project provides for the study necessary for the environmental assessment of Phase 1 capital projects shown on the Airport Layout Plan (ALP) to be started by 2020.

JUSTIFICATION: In accordance with Federal Aviation Administration Order 5050.4B, Airport Environmental Handbook, MAA must determine the environmental consequences of capital project development as proposed by the Airport Layout Plan.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered
☐ Project Outside PFA ☐ Exception Will Be Required
☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS:
None.

STATUS: Environmental assessment began Summer 2016 with targeted completion now mid 2020.

POTENTIAL FUNDING SOURCE:

☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☐ OTHER

PHASE	TOTAL	EXPEND THRU 2019	CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
	ESTIMATED COST (\$000)				2022.....	2023.....	2024.....	2025.....		
Planning	3,772	2,765	1,007	0	0	0	0	0	1,007	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	3,772	2,765	1,007	0	0	0	0	0	1,007	0
Federal-Aid	0	0	0	0	0	0	0	0	0	0

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: Schedule extending to calendar year 2020 to comply with revised FAA requirements.



PROJECT: Taxiway F Relocation Design

DESCRIPTION: This project will reconstruct, in concrete, the taxiway parallel to Runway 10-28 at a proposed offset of 750 feet. The construction will include clearing, grading, paving, airfield lighting, signage and pavement marking improvements.

JUSTIFICATION: The project will enhance airfield safety and operations through reconstruction of pavement to meet Federal Aviation Administration (FAA) standards. In addition, the proposed alignment will address deficiencies in the current alignment that do not meet current FAA Design Standards. New LED lighting and signage will address system preservation requirement.

SMART GROWTH STATUS: ☐ Project Not Location Specific ☐ Not Subject to PFA Law

☒ Project Inside PFA ☐ Grandfathered

☐ Project Outside PFA ☐ Exception Will Be Required

☐ PFA Status Yet to Be Determined ☐ Exception Granted

ASSOCIATED IMPROVEMENTS: None.

STATUS: Under design.

POTENTIAL FUNDING SOURCE: ☒ SPECIAL ☐ FEDERAL ☐ GENERAL ☐ OTHER										
PHASE	TOTAL ESTIMATED COST (\$000)	EXPEND THRU 2019	CURRENT YEAR 2020	BUDGET YEAR 2021	PROJECTED CASH REQUIREMENTS FOR PLANNING PURPOSES ONLY				SIX YEAR TOTAL	BALANCE TO COMPLETE
					2022.....	2023.....	2024.....	2025.....		
Planning	0	0	0	0	0	0	0	0	0	0
Engineering	2,620	169	2,451	0	0	0	0	0	2,451	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	2,620	169	2,451	0	0	0	0	0	2,451	0
Federal-Aid	1,832	0	1,832	0	0	0	0	0	1,832	0

SIGNIFICANT CHANGE FROM FY 2019 - 24 CTP: New project added to the Development & Evaluation Program.

USAGE: Accommodate projected annual passenger growth.

OPERATING COST IMPACT: Operating cost fully recovered through airport user fees.

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2019 Completions</u>		
	<u>Airside Development</u>		
1	Alternate 15R Deicing Pad (2325)	367	Complete
2	BWI Field Maint Wash Rack Cross Connect Repairs (2201)	296	Complete
3	BWI New Air Traffic Control Tower (1939)	1,885	Complete
4	MAA/ARFF Training Facility (2334)	192	Complete
5	Taxiway S Resurfacing (2324)	3,704	Complete
	<u>Baltimore/Washington</u>		
6	Comp Airport Planning Services (1949)	7,298	Complete
7	Comp Airport Planning Services (1951)	6,109	Complete
8	Comp Arch Eng Design Services (1902)	162	Complete
9	Comp Arch Eng Design Services (1955)	1,903	Complete
10	Comp Arch Eng Design Services (1958)	52	Complete
11	Comp Arch Eng Design Services-2 (1912)	1,008	Complete
12	Comp Professional Program Mgmt (1916)	38	Complete
13	Wildlife Management Services (2078)	1,164	Complete
	<u>Consol Rental Car Facility</u>		
14	CRCF - BMF Bus Storage Area Pvmnt Expansion (2131)	901	Complete
	<u>Critical Airport Systems</u>		
15	BWI Radio System Software Upgrade (2111)	1,158	Complete
	<u>Equipment</u>		
16	Procurement Storage Trailers (2102)	392	Complete

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	TOTAL PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2019 Completions (cont'd)</u>		
	<u>Equipment (cont'd)</u>		
17	Snow Equip Repl - Rotary Plow #30097 (2096)	701	Complete
	<u>Intl Infrastructure</u>		
18	Conc Infrastructure Improvements (9695)	8,339	Complete
	<u>Landside Development</u>		
19	Hourly Garage - New Parking Products (2127)	42	Complete
20	I-195 Inbound Pavement Rehab (2319)	662	Complete
21	Long Term A Parking Concrete Bus Stop Rehab (2320)	1,143	Complete
	<u>Martin State</u>		
22	MTN Aircraft Washpad Environmental Repairs (2206)	858	Complete
23	MTN Emergency Pavement Repairs (2326)	460	Complete
24	MTN Fire Supp Bldg Fuel Piping & Containment (2207)	513	Complete
25	MTN Strawberry Pt Ramp Patching (2323)	711	Complete
	<u>Terminal Development</u>		
26	Airport Art (2217)	569	Complete
27	ARC Flash Hazards (2109)	1,626	Complete
28	BWI ATCT HVAC Improvements (2209)	698	Complete
29	Lease Agreement Assets (9884)	1,780	Complete
30	Terminal Interior / Exterior Modifications (2214)	6,340	Complete

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021</u>		
	<u>Airside Development</u>		
31	BWI Snow Equip Storage Building (2331)	5	Complete
32	RTR Relocation (2211)	928	Complete
33	Taxilane AA Resurfacing F6 to F9 (2322)	47	Complete
34	Taxiway B Patching (2321)	20	Complete
35	10-01 RPZ Property Acquisition (7810)	498	Underway
36	ALSF-2 Shelter Relocation (2220)	2,911	Underway
37	ARFF Road Rehabilitation (2338)	983	Underway
38	BWI Erosion - Movement Area (2227)	1,763	Underway
39	BWI Erosion - Non Movement Area (2226)	936	Underway
40	BWI Taxiway T Pavement Repairs (2339)	377	Underway
41	Comp Pavement Markings FY17 (1909)	868	Underway
42	Comprehensive Paving FY 2016 (2108)	45	Underway
43	Comprehensive Paving FY 2019 (2308)	99	Underway
44	Taxiway T Electrical Replacement (2357)	539	Underway
45	Taxiway T2 Connector (TW F Reloc EB75) (2356)	8,114	Underway
	<u>Annual</u>		
46	Facility Management Program (7600)	200	Ongoing
47	Parking Garage Structure Inspection (1463)	161	Ongoing
48	Real Estate Administrative Services (7019)	50	Ongoing
49	Real Estate Property Services (7018)	128	Ongoing
50	Bridge Inspection (SHA Consultant) (1023)	186	Underway
51	Comprehensive Regional Air Passenger Survey (1486)	120	Underway
52	MAA Noise Prop AA Sewer Assessment (1905)	96	Underway
53	MDOT Asset Management (2222)	280	Underway
54	Prof Services GIS, SUE and Eng Data Part I (2085)	873	Underway
55	Prof Services GIS, SUE and Eng Data Part II (2086)	400	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021 (cont'd)</u>		
	<u>Annual (cont'd)</u>		
56	Security and Life Safety Systems CAD Update (2079)	600	Underway
57	Terminal Spaceframe Inspection (7000)	350	Underway
58	Utility Designating (2017)	300	Underway
59	Wildlife Deterrent Unit Inspections (1904)	5	Underway
	<u>Baltimore/Washington</u>		
60	Comp Acoustical Services Contract (2118)	4	Complete
61	Comp Arch Eng Design Services (1956)	30	Complete
62	Comp Arch Eng Design Services (1957)	99	Complete
63	Comp Const Mgmt Services - SBR (1952)	110	Complete
64	Building Permits and Inspections (1390)	536	Ongoing
65	Comp Construction Mgmt & Inspection (8016)	755	Ongoing
66	Fire Protection Engineer Services (1173)	488	Ongoing
67	BTC - BWI and MTN Minors (1062)	-898	Underway
68	BWI Aerial Photogrammetry & Airspace Analysis (1959)	150	Underway
69	Capital Audit Services TORFP-DBM (2310)	200	Underway
70	Capital Financial Services (2018)	200	Underway
71	Comp Acoustical Services Contract (2318)	396	Underway
72	Comp Airport Planning Services (2187)	600	Underway
73	Comp Airport Planning Services (2188)	600	Underway
74	Comp Airport Planning Services (2189)	800	Underway
75	Comp Arch Eng Design Services (2184)	669	Underway
76	Comp Arch Eng Design Services (2185)	974	Underway
77	Comp Arch Eng Design Services (2186)	801	Underway
78	Comp Const Mgmt Services (2312)	600	Underway
79	Comp Construction Mgmt & Inspection (1953)	490	Underway
80	Comp Financial Planning & Analysis Serv (2082)	200	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021 (cont'd)</u>		
	<u>Baltimore/Washington (cont'd)</u>		
81	Comp Professional Program Mgmt (2117)	100	Underway
82	Comp Professional Program Mgmt (2183)	100	Underway
83	Comp Real Estate Services (2119)	200	Underway
84	Comprehensive AIT Services (2115)	575	Underway
85	Comprehensive Partnering Services (2122)	200	Underway
86	MBE Support Services (1950)	200	Underway
87	Pavement Management BWI/MTN (1943)	698	Underway
88	Safety Management Support (2311)	100	Underway
89	Wildlife Management Services (2088)	800	Underway
	<u>Conc A/B Improvements</u>		
90	Conc A/B Enabling - Mezzanine Renov (9595)	4,842	Underway
91	Conc AB Enabling - LL Road Improvements (9588)	1,287	Underway
92	Terminal AB 737-800 Modifications (9596)	2,501	Underway
	<u>Consol Rental Car Facility</u>		
93	CRCF - Valley Road Power Gate & CSB Entry Gate (2137)	189	Complete
94	CRCF Pavement Rehabilitation FY16 (2093)	3	Complete
95	CRCF - BMF Bus Wash Replacement (2133)	1,201	Underway
96	CRCF - BMF Equipment Replacement (2132)	1,067	Underway
97	CRCF - CSB Front Lane Pvmt Concrete Rebuild (2134)	163	Underway
98	CRCF - Facility Re-evaluation BMF and CSB (2136)	88	Underway
99	CRCF Security Improvements (2130)	1,021	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021 (cont'd)</u>		
	<u>Critical Airport Systems</u>		
100	BWI Dispatch System Upgrade (2123)	491	Complete
101	Public Address System Replacement (2124)	255	Complete
102	IT Equipment (1456)	2,400	Ongoing
103	Airport Project Administration System (AirPass) (2040)	1,655	Underway
	<u>Environmental Compliance</u>		
104	Comp Environmental Compliance (2084)	125	Complete
105	Comp Environmental Compliance (2056)	875	Underway
106	Comp Environmental Planning (1899)	1,000	Underway
107	Environmental Permitting (2190)	12	Underway
108	Stream & Wetland Restoration Mitigation Services (1948)	300	Underway
109	Terminal Environmental Mitigation (8106)	200	Underway
	<u>Equipment</u>		
110	Glycol Recovery Vehicles - Replacement (3) (2126)	1,121	Complete
111	New Equip - Stripe Hog Waterblaster (2229)	551	Complete
112	Snow Equip - Snow Grooming Vehicle New (2105)	60	Complete
113	Snow Equip Repl - De-Icing Truck #30166 (2098)	334	Complete
114	AED Defibrulators Replacement (2232)	288	Summer, 2020
115	BWI Equip Replacement FY 2021 (2230)	1,933	Summer, 2020
116	MTN Equipment Replacement FY 2021 (2231)	877	Summer, 2020
117	BWI Equip Replacement FY 2020 (2225)	1,848	Underway
118	BWI Mobile Lounge Refurbishment (2198)	1,690	Underway
119	MTN Equipment Replacement FY 2020 (2224)	654	Underway
120	Operating Vehicles (2053)	300	Underway
121	Snow Equip Repl - Dump Trucks (2) #9937 / #9936 (2002)	65	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021 (cont'd)</u>		
	<u>Equipment (cont'd)</u>		
122	Snow Equip Repl - Tandum Dump #9834 (2067)	156	Underway
	<u>Future Development</u>		
123	Taxiway T Reconstruction (2204)	1	Complete
124	BWI Fuel Storage Tank Additions (2336)	72	Underway
125	C/D Connector Study (2216)	6	Underway
126	Cargo Bldg E Supplemental Electric - Design Only (2346)	29	Underway
127	Cell Phone Charging Power Supply - Design Only (2347)	11	Underway
128	Concourse D/E Ambiance - Design Only (2354)	1	Underway
129	Concourse D/E Transition Ramp - Design Only (2355)	3	Underway
130	Midfield Fuel Farm Improvements - Design Only (2344)	28	Underway
131	MTN AOA Fence Upgrade - Design Only (2345)	29	Underway
132	Red Column Tile Repair - Design Only (2349)	1	Underway
	<u>Information Tech CTIPP</u>		
133	Permanent Noise Monitoring System Replacement (7405)	152	Complete
	<u>Intl Infrastructure</u>		
134	Concourse E Existing Gate Transition Buildings (2335)	2,922	Underway
	<u>Landside Development</u>		
135	LL Roadway Curbside & Column Marking (2330)	425	Complete
136	Terminal Road Crosswalk Restriping (2327)	41	Complete
137	Airport Road Electronic Signage Repl (2044)	2,477	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021 (cont'd)</u>		
	<u>Landside Development (cont'd)</u>		
138	Hourly Garage Storm Water Pump Station Repl (2333)	1,934	Underway
139	Hrly Garage Level 6 Ped Ramp Repair (2342)	140	Underway
140	Hrly Garage Parking Guidance System Upgrade (1931)	2,788	Underway
141	Long Term Parking Lot A Culvert Rplmt (2353)	1,320	Underway
142	Protective Land Acquisition (1137)	780	Underway
	<u>Martin State</u>		
143	MTN Corporate Hangar Stormwater System Impv (2208)	909	Complete
144	MTN Obstruction Removal (9431)	319	Summer, 2020
145	MTN Air Traffic Control Tower (1121)	862	Underway
146	MTN Snow Equip Storage Building (2332)	2,142	Underway
147	MTN Strawberry Point Ramp Road Rehab (2340)	430	Underway
	<u>Security</u>		
148	Concourse A/B Anti-Backflow Improvements (2028)	741	Underway
149	Security Initiatives (2218)	1,200	Underway
	<u>Sound Mitigation</u>		
150	BWI Community Roundtable (2309)	49	Complete
151	BWI Part 150 / Airport Noise Zone Update (2307)	1,950	Underway
152	MTN Airport Noise Zone (2306)	173	Underway
153	Real Estate Consulting Support SV 19-003 (Fed) (2317)	200	Underway

SYSTEM PRESERVATION MINOR PROJECTS PROGRAM

MARYLAND AVIATION ADMINISTRATION - LINE 17 (cont'd)

ITEM NO.	DESCRIPTION AND IMPROVEMENT TYPE	FY20 + FY21 PROJECT COST (\$000's)	CONSTRUCTION START
	<u>Fiscal Year 2020 and 2021 (cont'd)</u>		
	<u>Terminal Development</u>		
154	Common Use Domestic Facilities (7503)	400	Complete
155	Terminal Interior / Exterior Modifications - SBR (2215)	140	Complete
156	Terminal Interior / Exterior Modifications (2114)	465	Complete
157	USO Lounge Renovation (2228)	170	Complete
158	County Sewer and Water Capital Improvements (1028)	2,151	Ongoing
159	Terminal Leasehold Modifications (7500)	400	Ongoing
160	D/E Concourse Patio & Storage Room Impv (2329)	695	Underway
161	FAA ATCT Elevator Replacement (2351)	857	Underway
162	PBB Electrical Improvements (2337)	411	Underway
163	Terminal Electronic Wayfinding Signage Ph 1-3 (2199)	2,147	Underway
164	Terminal Interior / Exterior Modifications (2314)	69	Underway