

**Washington Headquarters Services
FY 2022 Military Construction, Defense-Wide
(\$ in Thousands)**

<u>State/Installation/Project</u>	<u>Authorization Request</u>	<u>Approp. Request</u>	<u>New/ Current Mission</u>	<u>Page No.</u>
Virginia				
Pentagon (Raven Rock) Consolidated Maintenance Complex	20,000	20,000	C	122
Pentagon (Raven Rock) Force Protection Perimeter Enhancements	8,608	8,608	C	125
Pentagon (Raven Rock) Public Works Support Facility	21,935	21,935	C	127
Total	50,543	50,543		

1. COMPONENT Washington Headquarters Services			FY 2022 MILITARY CONSTRUCTION PROGRAM				2. DATE May 2021				
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)				4. COMMAND OSD/CMO/WHs			5. AREA CONSTRUCTION COST INDEX 1.14				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 30 Sep 2020											27,488
b. END FY 2022											27,488
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE (acre)								0.00			
b. INVENTORY TOTAL AS OF YYYYMMDD								0.00			
c. AUTHORIZATION NOT YET IN INVENTORY								0.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								50,543.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								0.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								0.00			
g. REMAINING DEFICIENCY								0.00			
h. GRAND TOTAL								50,543.00			
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
21910	Consolidated Maintenance Complex		23,000 SF		20,000	JUN 2019	JAN 2021				
87224	Force Protection Perimeter Enhancements		2,448 LF		8,608	FEB 2020	JAN 2021				
44182	Public Works Support Facility		33,184 SF; 2,000 GAL		21,935	JUN 2019	JAN 2021				
9. FUTURE PROJECTS*											
10. MISSION OR MAJOR FUNCTIONS											
Raven Rock Mountain Complex provides a premier secure strategic battle command platform in which the Department of Defense can execute its mission essential functions in support of continuity of operations.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
										(\$000)	
A. Air Pollution										0	
B. Water Pollution										0	
C. Occupational Safety and Health										0	

DD FORM 1390, JUL 1999

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA			2. Date May 2021
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Consolidated Maintenance Complex		
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 21910	7. PROJECT NUMBER 90570	8. PROJECT COST (\$000) 20,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITIES</u>				11,890
MAINTENANCE & OPERATIONS FACILITY (CC 21910)	SF	23,000	498.13	(11,457)
BUILDING INFORMATION SYSTEMS	LS			(433)
<u>SUPPORTING FACILITIES</u>				5,474
SITE PREPARATION	LS			(1,095)
SITE IMPROVEMENTS	LS			(1,518)
ELECTRIC SERVICES	LS			(436)
COMMUNICATIONS SERVICES	LS			(417)
WATER AND SANITARY SEWER SERVICES	LS			(1,057)
STORMWATER MANAGEMENT	LS			(299)
PERMITS	LS			(279)
POST-CONSTRUCTION CONTRACT AWARD SERVICES	LS			(373)
SUBTOTAL				17,364
CONTINGENCY (5%)				868
TOTAL CONTRACT COST				18,232
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				1,039
DESIGN/BUILD- DESIGN COST (4%)				729
TOTAL REQUEST				20,000
TOTAL REQUEST (ROUNDED)				20,000
EQUIPMENT FROM OTHER APPROPRIATIONS				5,000
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
Construct a building for maintenance, environmental, and logistical functions to include maintenance bays, administrative space, indoor vehicle wash bay, and storage area with all associated interior utility, communications, and intrusion detection requirements.				
Building information systems include energy monitoring control systems, cyber security systems, and related systems.				
Site preparation includes standard clearing and grubbing, cut and fill, grading, and boulder removal.				
Site improvements include paving of roads and parking area, sidewalks, concrete equipment pads, retaining structures, surveillance infrastructure, and landscaping.				
Electrical services include secondary service connections, transformer, site lighting, and emergency power connection.				
Communications to be constructed include cabling connections to existing sources, manhole and underground system, and distribution to surveillance and life safety equipment. Included is also cybersecurity features outside of the building.				
Water services included in this project are potable water main connections and lines for use with distribution and fire suppression, incidentally a bulk water tank and associated pumps are included to meet fire code requirements.				

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA		2. Date May 2021
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Consolidated Maintenance Complex	
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 21910	7. PROJECT NUMBER 90570	8. PROJECT COST (\$000) 20,000
<p>Sewer connections and collection system with associated pumps and equipment are included.</p> <p>Storm water management includes retention structures, drain boxes, piping, drainage basins, and outfalls. Low Impact Development features will be included utilizing best management practices.</p> <p>Permits required for land disturbance are included with this project.</p> <p>Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria (UFC).</p> <p>Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.</p>			
<p>11. REQUIREMENT: 23,000 SF ADQT: 0 SF SUBSTD: 0 SF</p> <p><u>PROJECT:</u> Construct a new building for vehicle and equipment maintenance, outside communications maintenance, and administrative activities. This project will also include parking, water distribution and storage, storm water system, erosion control measures, electrical, and communications services.</p> <p><u>REQUIREMENT:</u> Relocate public works functions away from the perimeter to create standoff and provide safe operations and maintenance. The facility also has a requirement to provide a safe year round use wash bay to conduct cleaning of equipment and vehicles.</p> <p>Raven Rock Mountain Complex is required to meet UFC security standoff requirements while providing a safe working environment for personnel. The project will construct the required sized maintenance bays and administrative space for personnel to complete their daily functions. The construction of this building also allows Raven Rock Mountain Complex to address the deteriorating perimeter, fence, and roadway in future restoration projects. Additionally, this project also follows guidance for constructing permanent buildings in lieu of relocatable buildings.</p> <p><u>CURRENT SITUATION:</u> The existing facilities were constructed when Fort Ritchie closed in 1998 and current daily operations are limited due to the size and configuration of the buildings. Maintenance and administrative personnel currently utilize relocatable office trailers to conduct their daily administrative activities. The current wash bay is limited for use to when temperatures are above freezing due to its current state and is not of adequate size for equipment and vehicles. Real property assets and structures have exceeded their lifecycles and are in a state of constant and costly repairs. Lastly, the current perimeter requires constant repairs due to erosion but is inaccessible since the current buildings limit perimeter access.</p> <p>This facility is not located in a 100-year flood plain.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Personnel will continue to work with limited capabilities and be placed in unsafe locations due to the existing building entrances being located within six feet of active roadway with no barricades or protection. Proper UFC standoff requirements will not be met and annual waivers for physical security will continue to be issued. Additionally, since the existing facilities restrict access to the perimeter fence, the terrain will continue to degrade, requiring costly and unscheduled repairs due to erosion and slope failure.</p>			

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA		2. Date May 2021												
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Consolidated Maintenance Complex													
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 21910	7. PROJECT NUMBER 90570	8. PROJECT COST (\$000) 20,000												
12. SUPPLEMENTAL DATA: A. Estimated Execution Data: <div style="display: flex; justify-content: space-between;"> <div> (1) Acquisition Strategy: (2) Design Data: (a) Design or Request for Proposal (RFP) Started: (b) Percent of Design Completed as of January 2021: (c) Design or RFP Complete: (d) Total Design Cost (\$000): (e) Energy Study and/or Life Cycle Analysis performed: (f) Standard or Definitive Design Used: (3) Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete: </div> <div> Design/Build JUN 2019 35% JAN 2021 \$2,034 No No MAR 2022 OCT 2022 SEP 2024 </div> </div> B. Equipment associated with this project which will be provided from other appropriations: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Equipment Nomenclature</u></th> <th style="text-align: center;"><u>Procuring Appropriation</u></th> <th style="text-align: center;"><u>FY Appropriated of Requested</u></th> <th style="text-align: center;"><u>Cost (\$000)</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">FFE</td> <td style="text-align: center;">PRMRF</td> <td style="text-align: center;">Future Request</td> <td style="text-align: right;">\$4,550</td> </tr> <tr> <td style="text-align: center;">Security Equipment</td> <td style="text-align: center;">PRMRF</td> <td style="text-align: center;">Future Request</td> <td style="text-align: right;">\$450</td> </tr> </tbody> </table>				<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>FY Appropriated of Requested</u>	<u>Cost (\$000)</u>	FFE	PRMRF	Future Request	\$4,550	Security Equipment	PRMRF	Future Request	\$450
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>FY Appropriated of Requested</u>	<u>Cost (\$000)</u>												
FFE	PRMRF	Future Request	\$4,550												
Security Equipment	PRMRF	Future Request	\$450												

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA			2. Date May 2021
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Force Protection Perimeter Enhancements		
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 87224	7. PROJECT NUMBER 95677	8. PROJECT COST (\$000) 8,608	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITIES</u>				2,742
SECURITY FENCE (CC 87224)	LF	2,448	1,120	(2,742)
<u>SUPPORTING FACILITIES</u>				4,732
SITE PREPARATION	LS			(1,197)
SITE IMPROVEMENTS	LS			(1,607)
ELECTRIC SERVICES	LS			(1,048)
STORMWATER MANAGEMENT	LS			(480)
PERMITS	LS			(288)
POST-CONSTRUCTION CONTRACT AWARD SERVICES	LS			(112)
SUBTOTAL				7,474
CONTINGENCY (5%)				374
TOTAL CONTRACT COST				7,847
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				447
DESIGN/BUILD- DESIGN COST (4%)				314
TOTAL REQUEST				8,608
TOTAL REQUEST (ROUNDED)				8,600
EQUIPMENT FROM OTHER APPROPRIATIONS				3,176
10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct perimeter security fencing in accordance with requirements for Nuclear Command and Control Facilities to include chain-link fencing, fence lighting, electrical distribution, and security equipment pathways. Site preparation includes standard clearing and grubbing, cut and fill, grading, and boulder removal. Site improvements include paved patrol path, landscaping, and covered stairway and walkway. Electric services include secondary service connections from source to fence location to support the lighting and security equipment, transformer, manhole system, and underground pathways. Storm water management includes drain boxes, piping, drainage basins, and outfalls. Low Impact Development features will be included utilizing Maryland best management practices. Permits included in this project consist of mitigation costs for clearing forested areas. Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria (UFC). Facilities will incorporate features that provide the lowest practical life cycle cost solutions, satisfying the facility requirements with the goal of maximizing energy efficiency.				

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA		2. Date May 2021
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Force Protection Perimeter Enhancements	
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 87224	7. PROJECT NUMBER 95677	8. PROJECT COST (\$000) 8,608

11. REQUIREMENT: 2,448 LF **ADQT:** 0 LF **SUBSTD:** 0 LF

PROJECT: Construct perimeter fencing with required security features.

REQUIREMENT: Nuclear Command and Control Facilities require a perimeter fence with clear zone, stand-off, and clear line of demarcation.

CURRENT SITUATION: Real property assets and structures are located within the required standoff distance of the existing fence line and require annual security waivers since the site does not meet UFC security requirements for anti-terrorism. The existing perimeter fencing was constructed prior to current security requirements and cannot be repaired to achieve security compliance. Additionally, current fencing is in a state that requires constant repairs to both the fence and erosion control.

This facility is not located in a 100-year flood plain.

IMPACT IF NOT PROVIDED: Physical security components will continue to not meet requirements for Nuclear Command and Control Facilities, annual waivers for physical security will continue to be issued, and site will continue to degrade and require unscheduled repairs.

12. SUPPLEMENTAL DATA:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	FEB 2020
(b) Percent of Design Completed as of January 2021:	35%
(c) Design or RFP Complete:	JAN 2021
(d) Total Design Cost (\$000):	\$853
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or Definitive Design Used:	Yes
(3) Construction Data:	
(a) Contract Award:	MAR 2022
(b) Construction Start:	OCT 2022
(c) Construction Complete:	NOV 2023

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost (\$000)
FFE	PRMRF	Future Request	\$2,200
Security Equipment	PRMRF	Future Request	\$976

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA			2. Date May 2021
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Public Works Support Facility		
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 44182	7. PROJECT NUMBER 95696	8. PROJECT COST (\$000) 21,935	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
<u>PRIMARY FACILITIES</u>				6,629
PUBLIC WORKS SUPPORT FACILITY (CC 44182)	SF	33,184	154.93	(5,141)
ABOVE GROUND FUEL STORAGE (CC 12481)	GAL	2,000	320.00	(640)
BUILDING INFORMATION SYSTEMS	LS			(848)
<u>SUPPORTING FACILITIES</u>				12,414
SITE PREPARATION	LS			(3,204)
ELECTRIC SERVICES	LS			(865)
WATER SERVICES	LS			(1,350)
COMMUNICATIONS SERVICES	LS			(902)
SITE IMPROVEMENTS	LS			(3,229)
STORMWATER MANAGEMENT	LS			(1,869)
DEMOLITION	LS			(287)
PERMITS	LS			(287)
POST-CONSTRUCTION CONTRACT AWARD SERVICES	LS			(421)
SUBTOTAL				19,043
CONTINGENCY (5%)				952
TOTAL CONTRACT COST				19,995
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				1,140
DESIGN/BUILD- DESIGN COST (4%)				800
TOTAL REQUEST				21,935
TOTAL REQUEST (ROUNDED)				21,900
EQUIPMENT FROM OTHER APPROPRIATIONS				1,500
10. DESCRIPTION OF PROPOSED CONSTRUCTION:				
Construct a high bay public works support facility to store vehicles, equipment, and environmental functions. Included within the facility is fire suppression and detection, communications, and intrusion detection.				
Building information systems include energy monitoring control systems, cyber security systems, and related systems.				
An above ground fuel tank with dispenser will be installed for use by maintenance equipment.				
Site preparation includes standard clearing and grubbing, cut and fill, grading, and boulder removal.				
Electrical services include primary and secondary service connections, transformer, automatic switchgear, site lighting, and emergency power connections.				
Water services include potable water main connections and lines for use with distribution and fire suppression, incidentally a water storage tank is included to meet fire codes requirements.				

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA		2. Date May 2021
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Public Works Support Facility	
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 44182	7. PROJECT NUMBER 95696	8. PROJECT COST (\$000) 21,935
<p>Communications to be constructed include cabling connections to existing sources, manhole and underground system, and distribution to surveillance and life safety equipment.</p> <p>Site improvements include paving of roads and parking area, sidewalks, concrete equipment pads, retaining structures, bulk stone and deicer storage, and landscaping.</p> <p>Storm water management includes retention structures, drain boxes, piping, drainage basins, and outfalls. Low Impact Development features will be included utilizing best management practices.</p> <p>Demolition consists of removal and disposal of existing structures and buildings within the project location.</p> <p>Permits are required due to land disturbance.</p> <p>Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria (UFC).</p> <p>Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.</p>			
<p>11. REQUIREMENT: 33,184 SF ADQT: 0 SF SUBSTD: 0 SF</p> <p><u>PROJECT:</u> Construct a facility for storage of vehicles, equipment, and environmental functions.</p> <p><u>REQUIREMENT:</u> Relocate public works functions away from the perimeter to create standoff and provide safe operations and maintenance.</p> <p>Provide a weather resistant facility for the storage of assigned public works vehicles that range in size from an electric utility bucket truck to pick-up trucks, equipment such as loaders and lawnmowers, and materials.</p> <p><u>CURRENT SITUATION:</u> The existing facilities were hastily constructed when Fort Ritchie closed in 1998. Current daily operations are limited due to the size, condition and configuration of the buildings. Personnel are working in an unsafe location due to the close proximity of an active roadway. Real property assets and structures are in poor condition and equipment is in a state of constant repair due to premature failure from weather exposure.</p> <p>This facility is not located in a 100-year flood plain.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Personnel will continue to be placed in unsafe work conditions due to the existing building entrances being located within six feet of active roadway with no barricades, protection, or work-arounds. Proper UFC standoff requirements will not be met and annual waivers for physical security will continue to be issued. Equipment and materials will continue to be stored in unsuitable locations and exposed to adverse weather. Additionally, since the existing facilities restrict access to the perimeter fence, the terrain will continue to degrade requiring costly and unscheduled repairs due to erosion and slope failure.</p>			

1. COMPONENT WHS	FY 2022 MILITARY CONSTRUCTION PROJECT DATA		2. Date May 2021												
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)		4. PROJECT TITLE: Public Works Support Facility													
5. PROGRAM ELEMENT 0901584D8W	6. CATEGORY CODE 44182	7. PROJECT NUMBER 95696	8. PROJECT COST (\$000) 21,935												
12. SUPPLEMENTAL DATA: A. Estimated Execution Data: <div style="display: flex; justify-content: space-between;"> <div> (1) Acquisition Strategy: (2) Design Data: (a) Design or Request for Proposal (RFP) Started: (b) Percent of Design Completed as of January 2021: (c) Design or RFP Complete: (d) Total Design Cost (\$000): (e) Energy Study and/or Life Cycle Analysis performed: (f) Standard or Definitive Design Used: (3) Construction Data: (a) Contract Award: (b) Construction Start: (c) Construction Complete: </div> <div> Design/Build JUN 2019 35% JAN 2021 \$2,051 No No MAR 2022 OCT 2022 NOV 2024 </div> </div> B. Equipment associated with this project which will be provided from other appropriations: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Equipment Nomenclature</u></th> <th style="text-align: center;"><u>Procuring Appropriation</u></th> <th style="text-align: center;"><u>FY Appropriated of Requested</u></th> <th style="text-align: center;"><u>Cost (\$000)</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">FFE</td> <td style="text-align: center;">PRMRF</td> <td style="text-align: center;">Future Request</td> <td style="text-align: right;">\$1,361</td> </tr> <tr> <td style="text-align: center;">Security Equipment</td> <td style="text-align: center;">PRMRF</td> <td style="text-align: center;">Future Request</td> <td style="text-align: right;">\$139</td> </tr> </tbody> </table>				<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>FY Appropriated of Requested</u>	<u>Cost (\$000)</u>	FFE	PRMRF	Future Request	\$1,361	Security Equipment	PRMRF	Future Request	\$139
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>FY Appropriated of Requested</u>	<u>Cost (\$000)</u>												
FFE	PRMRF	Future Request	\$1,361												
Security Equipment	PRMRF	Future Request	\$139												