

**Washington Headquarters Services
 FY 2017 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>
Pentagon				
Pentagon Metro Entrance Facility	12,111	12,111	C	175
Upgrade IT Facilities Infrastructure-RRMC	8,105	8,105	C	180
Total	20,216	20,216		

1. COMPONENT WHS		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Feb 2016			
3. INSTALLATION AND LOCATION Pentagon Reservation				4. PROJECT TITLE Pentagon Metro Entrance Facility				
5. PROGRAM ELEMENT		6. CATEGORY CODE 144 13	7. PROJECT NUMBER 80916		8. PROJECT COST (\$000) 12,111			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITY								9,358
Entrance Screening Facility					SF	10,400	431.9	(4,493)
Existing Canopy Removal/Modifications					SF	9,125	155	(1,414)
Fixed Equipment					LS	--	--	(538)
Security Equipment Infrastructure					LS	--	--	(1,584)
Intrusion Detection Infrastructure					LS	--	--	(28)
Total from Continuation page(s)								(1,301)
SUPPORTING FACILITIES								679
Electric Service					LS	--	--	(74)
Steam And/Or Chilled Water Distribution					LS	--	--	(271)
Paving, Walks, Curbs And Gutters					LS	--	--	(39)
Site Imp(244) Demo()					LS	--	--	(244)
Antiterrorism Measures					LS	--	--	(32)
Info Systems					LS	--	--	(19)
ESTIMATED CONTRACT COST								10,037
CONTINGENCY (10.00%)								1,004
SUBTOTAL								11,041
SUPERVISION, INSPECTION & OVERHEAD (5.70%)								629
DESIGN/BUILD - DESIGN COST (4.0000%)								442
TOTAL REQUEST								12,111
TOTAL REQUEST (ROUNDED)								12,200
INSTALLED EQT - OTHER APPROPRIATIONS								2,324
10. Description of Proposed Construction Construct a new Pedestrian Access Control Point (PACP) for employee screening at the Pentagon Metro Entrance. This addition to the existing building will include all required security equipment and systems; anti-terrorism/force protection (AT/FP); intrusion detection system, information system (IT/communications); safety and surveillance measures; screening and unauthorized personnel and hazardous materials detection capabilities; systems commissioning; utility services; lighting, heating, ventilation and air conditioning; interior renovations; demolition; and site work for conformance with Homeland Security Presidential Directive (HSPD) -12, Pentagon Integrated Security Master Plan (ISMP), Pentagon Exterior Standards, Architectural Barriers Act (ABA), Historical Preservation, Green Build/Leadership in Energy and Environmental Design (LEED) Silver, Sustainability and Energy Policy Act features, Unified Facilities Criteria (UFC) and all applicable Federal, State and local codes and requirements. The new employee screening facility will provide increased throughput capacity to safely and efficiently handle the large daily volume of Pentagon employees and badged personnel traffic using the Pentagon Metro Entrance and to decrease threats and risks to the attending police officers. Interior renovations to the existing Metro Entrance screening area will be required for integration and efficient functioning of the new employee screening								

1. COMPONENT WHS	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Feb 2016
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3. INSTALLATION AND LOCATION Pentagon Reservation	4. PROJECT TITLE Pentagon Metro Entrance Facility
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5. PROGRAM ELEMENT	6. CATEGORY CODE 144 13	7. PROJECT NUMBER 80916	8. PROJECT COST (\$000) 12,111
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9. COST ESTIMATES (CONTINUED)

ITEM	UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY (CONTINUED)				
Foundations	LS	--	--	(923)
Sustainability/Energy Measures	LS	--	--	(139)
Antiterrorism Measures	LS	--	--	(139)
Building Information Systems	LS	--	--	(100)
			Total	<u>1,301</u>

facility with the new visitor screening facility at the Metro Entrance Pentagon. Existing screening equipment and antiquated systems will be removed and new proven state-of-the-art screening, surveillance and detection technologies and processes incorporated. New turnstiles, and ballistic rated glazing at exterior and officer posts, will be incorporated to enhance security, safety, and to protect the users and attending police officers from threats, and unauthorized entry. The new employee screening facility will be constructed over the existing Metro Station and will require a special foundation system, removal of existing utilities and canopies and replacing with new connections, and landscaping.

11. REQ: 10,400 SF ADQT: NONE SUBSTD: NONE

PROJECT:

Construct a new permanent employee screening facility at the Metro Entrance to the Pentagon.

REQUIREMENT:

This project is required to replace the existing antiquated, inadequate, and substandard screening and security system that does not comply with current security, life safety, throughput capacity, AT/FP, HSPD-12, ISMP and other governing criteria as required for the safety, security, efficient processing of DoD pass holders, and protection of the Pentagon tenants and attending police officer against unauthorized entry and threats.

CURRENT SITUATION:

The existing employee screening system was installed as a temporary solution to increased security requirements post 911, and the present conditions are inadequate and substandard and do not meet current security, safety, surveillance, screening, detection, AT/FP, pedestrian throughput capacity requirements.

IMPACT IF NOT PROVIDED:

Impact to safety, security, and protection of the Pentagon tenants and police officers from unauthorized entry and threats will continue to remain at the most heavily used and vulnerable entrance to the Pentagon and this access control point will not be in compliance with current HSPD-12, ISMP and other Federal, State and local codes and regulations which are being implemented at other 176

1. COMPONENT WHS	FY 2017 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Feb 2016
3. INSTALLATION AND LOCATION Pentagon Reservation		4. PROJECT TITLE Pentagon Metro Entrance Facility	
5. PROGRAM ELEMENT	6. CATEGORY CODE 144 13	7. PROJECT NUMBER 80916	8. PROJECT COST (\$000) 12,111

IMPACT IF NOT PROVIDED: (CONTINUED)

Pentagon access control points. This project is also needed to complete integration with the new Metro Entrance Visitor Screening Facility for maximum operational efficiency.

ADDITIONAL:

All applicable Federal, State, local codes, regulations and criteria will be integrated into this project including all applicable Pentagon standards. The Director WHS certifies that this project has been considered for joint use potential. The facility will be available for use by other components.

1. COMPONENT WHS	FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Feb 2016
3. INSTALLATION AND LOCATION Pentagon Reservation		4. PROJECT TITLE Pentagon Metro Employee Facility		
5. PROGRAM ELEMENT	6. CATEGORY CODE 14413	7. PROJECT NUMBER 80916	8. PROJECT COST (\$000) 12,111	

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date.....	SEP 2015
(b) Percent Complete as of 15 Sep 2015 (DSGN YR).....	0
(c) Percent Complete as of 01 Jan 2016 (BDGT YR).....	15
(d) Percent Complete as of 01 Oct 2016 (PROG YR).....	35
(e) Concept Complete Date.....	SEP 2016
(f) Design Complete Date.....	SEP 2017
(g) Type of Design Contract: Design-build	

(2) Basis:

- (a) Standard or Definitive Design - (YES/NO) N
- (b) Where Design Was Most Recently Used:

(c) Percentage of Design utilizing Standard Design ...	0
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(3) Total Design Cost (c) = (a)+(b) OR (d)+(e): (\$000)

(a) Production of Plans and Specifications.....	0
(b) All Other Design Costs.....	600,000
(c) Total Design Cost.....	600,000
(d) Contract.....	425,000
(e) In-house.....	175,000

(4) Construction Contract Award.....	APR 2017
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(5) Construction Start.....	AUG 2017
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(6) Construction Completion.....	APR 2019
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1. COMPONENT Washington Headquarters Services			FY 2017 MILITARY CONSTRUCTION PROGRAM						2. DATE Feb 2016		
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)						4. COMMAND OSD/DAM			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	
a. AS OF 30 Sep 2015											23,000
b. END FY 2020											23,000
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE											
b. INVENTORY TOTAL AS OF 30 Sep 2014											
c. AUTHORIZATION NOT YET IN INVENTORY											
d. AUTHORIZATION REQUESTED IN THIS PROGRAM)									8,105		
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM									0		
f. PLANNED IN NEXT THREE PROGRAM YEARS									0		
g. REMAINING DEFICIENCY									0		
h. GRAND TOTAL									8,105		
8. PROJECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY						b. COST (\$000)					
(1) CODE	(2) PROJECT TITLE			(3) SCOPE				DESIGN START		STATUS COMPLETE	
13290	Upgrade IT Facilities Infrastructure			4,000 SF		8,105		03/2015		04/2019	
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS Raven Rock Mountain Complex provides an enduring platform from where DOD 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					

1. COMPONENT WHS		FY 2017 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Feb 2016	
3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)				4. PROJECT TITLE Upgrade IT Facilities Infrastructure-RRMC		
5. PROGRAM ELEMENT		6. CATEGORY CODE 132 90	7. PROJECT NUMBER 87744		8. PROJECT COST (\$000) 8,105	
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITY					3,414	
Sensitive Compartmented Info Fac		SF	4,000	627.83	(2,511)	
Comm Lines, fiberoptic and copper in RGS		LF	5,000	180.53	(903)	
SUPPORTING FACILITIES					3,618	
Electric Service		LS	--	--	(349)	
Steam And/Or Chilled Water Distribution		LS	--	--	(419)	
Site Imp(2,672) Demo(130)		LS	--	--	(2,802)	
Antiterrorism Measures		LS	--	--	(48)	
ESTIMATED CONTRACT COST					7,032	
CONTINGENCY (5.00%)					352	
SUBTOTAL					7,384	
SUPERVISION, INSPECTION & OVERHEAD (5.70%)					426	
DESIGN/BUILD - DESIGN COST (4.0000%)					295	
TOTAL REQUEST					8,105	
TOTAL REQUEST (ROUNDED)					8,105	
INSTALLED EQT - OTHER APPROPRIATIONS					1,215	
10. Description of Proposed Construction Construct new telecommunications rooms and upgrade outside cable plant to provide for upgraded data and communications capacity to meet increased service density and standard network cabling distance limitations. Size and locate rooms to accommodate information system design and distribution network and facilitate orderly and effective moves, additions, and changes to the information systems and provide flexibility in meeting the site's mission. Rooms must be able to provide 25% growth of IT equipment. Provide spaces and network pathways including all required security equipment and systems; anti-terrorism/ force protection (AT/FP); intrusion detection system, information system (IT/communications); safety and surveillance measures; systems commissioning; utility services; lighting; demolition; and site work for conformance with Homeland Security Presidential Directive (HSPD)-12, site Master Plan, Architectural Barriers Act (ABA), Historical Preservation, Green Build/Leadership in Energy and Environmental Design (LEED), Sustainability and Energy Policy Act features, Unified Facilities Criteria (UFC) and all applicable Federal, State, and local codes and requirements.						
11. REQ: 4,000 SF		ADQT: NONE		SUBSTD: 4,000 SF		
PROJECT: Construct telecommunication closets for upgraded telecommunication and data distribution.						

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3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex		4. PROJECT TITLE Upgrade IT Facilities Infrastructure-RRMC	
5. PROGRAM ELEMENT	6. CATEGORY CODE 132 90	7. PROJECT NUMBER 87744	8. PROJECT COST (\$000) 8,105

PROJECT: (CONTINUED)

REQUIREMENT:

Provide adequate information systems infrastructure both classified and unclassified and to meet the site's mission. Centrally located Telecommunication Rooms paired with upgraded cabling plant will require less maintenance, provide more accessibility to IT personnel, and provide for additional information throughput to serve a greater user population with increasing bandwidth needs.

CURRENT SITUATION:

The facility currently has an IT infrastructure with inadequate capacity to serve current data needs and a layout that is inefficient and requires multiple hops which causes signal degradation and slow network speed. Additionally the lack of dedicated IT rooms on each floor of the main facility causes maintenance personnel to take an average of eight (8) hours per service ticket to track down and resolve problems with cabling not being properly routed, and equipment spread throughout the facility often in tenant spaces that should be centrally located for ease of access. The unnecessary complexity and inadequate capacity of the current infrastructure and equipment access constraints require work-arounds and delay both the information systems operators and end users. This could be eliminated by a more modern, higher capacity, information systems infrastructure.

IMPACT IF NOT PROVIDED:

If this project is not constructed site information systems users will not have the bandwidth available to efficiently perform their missions nor will information systems personnel have the ability to effectively upgrade proponent sponsored equipment as data needs continue to increase to meet user needs. Trouble-shooting delays will continue to result from the unnecessary complexity of the existing system.

ADDITIONAL:

All applicable codes will be integrated into this project. This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. The Director WHS certifies that this project has been considered for joint use potential. Mission requirements, operational considerations, and location are incompatible with user by other components. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development and construction of the project.

1. COMPONENT WHS	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Feb 2016
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3. INSTALLATION AND LOCATION Pentagon Reservation (Raven Rock Mountain Complex)	4. PROJECT TITLE Upgrade IT Facilities Infrass.- RRM
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5. PROGRAM ELEMENT	6. CATEGORY CODE 13290	7. PROJECT NUMBER 87744	8. PROJECT COST (\$000) 8,105
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12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date.....	MAR 2015
(b) Percent Complete as of 15 Sep 2015 (DSGN YR).....	35
(c) Percent Complete as of 01 Jan 2016 (BDGT YR).....	0
(d) Percent Complete as of 01 Oct 2016 (PROG YR).....	0
(e) Concept Complete Date.....	SEP 2015
(f) Design Complete Date.....	SEP 2017
(g) Type of Design Contract: Design-build	

(2) Basis:

- (a) Standard or Definitive Design - (YES/NO) N
- (b) Where Design Was Most Recently Used:

(c) Percentage of Design utilizing Standard Design ...	90
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(3) Total Design Cost (c) = (a)+(b) OR (d)+(e):

	(\$000)
(a) Production of Plans and Specifications.....	0
(b) All Other Design Costs.....	949,998
(c) Total Design Cost.....	949,998
(d) Contract.....	949,998
(e) In-house.....	0

(4) Construction Contract Award.....	APR 2017
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(5) Construction Start.....	AUG 2017
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(6) Construction Completion.....	APR 2019
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