Department of Defense

Fiscal Year (FY) 2021 Budget Estimates

Military Construction

Family Housing

Defense-Wide

Justification Data Submitted to Congress

February 2020

FY 2021 Budget Estimates
Military Construction, Defense-Wide
Table of Contents

Preparation of the Defense-Wide budget, excluding revolving funds, cost the Department of Defense a total of approximately $1,150,000 in FY 2020.

THIS PAGE INTENTIONALLY LEFT BLANK

FY 2021 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Alabama				
Defense Logistics Agency				
Anniston Army Depot				
Demilitarization Facility	18,000	18,000	C	32
Alaska				
Missile Defense Agency				
Fort Greely				
Communications Center	48,000	48,000	N	84
Arizona				
Defense Information Systems Agency				
Fort Huachuca				
Laboratory Building	33,728	33,728	C	27
U.S. Special Operations Command				
Yuma				
SOF Hangar	49,500	49,500	C	105
California				
Defense Logistics Agency				
Beale Air Force Base				
Bulk Fuel Tank	22,800	22,800	C	37
Colorado				
U.S. Special Operations Command				
Fort Carson				
SOF Tactical Equipment Maintenance Facility	15,600	15,600	C	109
Florida				
U.S. Special Operations Command				
Hurlburt Field				
SOF Combat Aircraft Parking Apron-North	38,310	38,310	C	116
SOF Special Tactics Ops Facility (23 STS)	44,810	44,810	C	113
Kentucky				
DoD Education Activity				
Fort Knox				
Van Voorhis Elementary School	69,310	69,310	C	67

FY 2021 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Maryland				
Defense Health Agency				
Bethesda Naval Hospital				
Medical Center Addition/Alteration Increment 4	-	180,000	C	3
National Security Agency				
Fort Meade				
NSAW Recapitalization Building #3 Increment 3	-	250,000	C	98
Missouri				
Defense Health Agency				
Fort Leonard Wood				
Hospital Replacement Increment 3	-	40,000	C	11
National Geospatial Intelligence Agency				
St. Louis				
Next NGA West (N2W) Complex Phase 2 Increment 3	-	119,000	C	89
New Mexico				
Defense Threat Reduction Agency				
Kirtland Air Force Base				
Administrative Building	46,600	46,600	C	79
North Carolina				
U.S. Special Operations Command				
Fort Bragg				
SOF Group Headquarters	53,100	53,100	C	127
SOF Military Working Dog Facility	17,700	17,700	C	120
SOF Operations Facility	43,000	43,000	C	123
Ohio				
Defense Logistics Agency				
Wright-Patterson Air Force Base				
Hydrant Fuel System	23,500	23,500	C	41
Texas				
Defense Logistics Agency				
Fort Hood				
Fuel Facilities	32,700	32,700	C	45

FY 2021 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Virginia				
U.S. Special Operations Command				
Joint Expeditionary Base Little Creek-Story				
SOF DCS Operations Facility and Command Center	54,500	54,500	C	131
SIF NSWG-2 NSWTC Combat Service Support Facilities	58,000	58,000	C	134
Washington				
Defense Logistics Agency				
Joint Base Lewis-McChord				
Fuel Facilities (Lewis Main)	10,900	10,900	C	57
Fuel Facilities (Lewis North)	10,900	10,900	C	54
Manchester				
Bulk Fuel Storage Tanks Phase 1	82,000	82,000	C	50
CONUS Unspecified				
U.S. Special Operations Command				
CONUS Unspecified				
Training Target Structure	14,400	14,400	C	137
Germany				
Defense Health Agency				
Rhine Ordnance Barracks				
Medical Center Replacement Increment 9	-	200,000	C	19
Japan				
Defense Logistics Agency				
Defense Fuel Supply Point Tsurumi				
Fuel Wharf	49,500	49,500	C	61
DoD Education Activity				
Yokosuka				
Kinnick High School Increment 2	-	30,000	C	71
Defense Level Activities/Worldwide Unspecified				
Energy Resilience and Conservation Investment Program	142,500	142,500	C	140

FY 2021 Base Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Unspecified Minor Construction			C	141
Defense Health Agency	-	20,000		
Defense Logistics Agency	-	9,726		
DoD Education Activity	-	8,000		
Missile Defense Agency	-	4,922		
U.S. Special Operations Command	-	17,698		
Joint Chiefs of Staff	-	5,840		
Defense Level Activities	-	3,000		
Total Minor Construction	**-**	**69,186**		
Planning and Design			C	142
Defense Health Agency	-	64,406		
DoD Education Activity	-	27,746		
National Security Agency	-	10,303		
U.S. Special Operations Command	-	32,624		
Defense Level Activities	-	10,647		
ERCIP Design	-	14,250		
Total Planning and Design	**-**	**159,976**		
Total Military Construction, Defense-Wide	**979,358**	**2,027,520**		

FY 2021 BASE BUDGET ESTIMATES
Military Construction, Defense-Wide

(Including Transfer of Funds)

For acquisition, construction, installation, and equipment of temporary or permanent public works, installations, facilities, and real property for activities and agencies of the Department of Defense (other than the military departments), as currently authorized by law, $2,027,520,000 to remain available until September 30, 2025: *Provided,* That such amounts of this appropriation as may be determined by the Secretary of Defense available for military construction or family housing as he may designate, to be merged with and to be available for the same purposes, and for the same time period, as the appropriation or fund to which transferred: *Provided further*, That of the amount appropriated, not to exceed $159,976,000 shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reason therefore.

THIS PAGE INTENTIONALLY LEFT BLANK

FY 2021 Budget Estimates
Military Construction, Defense-Wide
Special Program Considerations

POLLUTION ABATEMENT

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installation have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

ENERGY CONSERVATION

DOD represents three-fourths of federal energy use. Energy Resilience and Conservation Investment Program (ERCIP) projects improve the energy resilience and energy and water efficiency at DOD installations, and consistently produce average savings of more than two dollars for every dollar invested. The ERCIP is a well-managed program with clear, realistic and attainable goals.

This program is funded at $142.5 million in FY 2021. The Administration will ensure that the program produces high returns on this investment and develops new performance metrics.

In general, the ERCIP program funds projects that would not necessarily be candidates for other types of funding, like O&M or third-party financing. In addition, in order to support the Department's strategic energy goals, the ERCIP uses several project selection criteria, including:

- **Impact to energy resilience improvement and its contribution to mission assurance at an installation;**
- **Service priority;**
- **Integration of distributed generation or storage to improve energy resilience;**
- **Inclusion in installation, region, department or component energy plan;**
- **Savings-to-Investment Ratio (SIR) and Simple Payback;**
- **Impact to the energy consumption at an individual installation;**
- **Implementation of technologies validated in a test bed demonstration program;**

The ERCIP funds projects that save energy, reduce DOD's energy costs, improve energy resilience and contribute to mission assurance. The program supports construction of new, high-efficiency energy systems and the improvement and modernization of existing systems. Projects are designed to provide maximum energy benefit to the installation through minimizing energy consumption and improving energy resilience.

FLOODPLAIN MANAGEMENT AND WETLANDS PROTECTION

Proposed land acquisitions, disposals, and installation construction projects have been planned to allow the proper management of flood plains and the protection of wetlands by avoiding long-and short-term adverse impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988, Floodplain Management, and 11990, Protection of Wetlands, and the Floodplain Management Guidelines of the U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss, minimize the impact of floods on human safety, health and welfare, preserve and enhance the natural and beneficial values of wetlands and minimize the destruction, loss or degradation of wetlands.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law 90480 and the Americans with Disabilities Act Accessibility Guidelines, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

PLANNING IN THE NATIONAL CAPITAL REGION

Projects located in the National Capital Region are submitted to the National Capital Planning Commission for budgetary review and comment as part of the Commission's annual review of the Future Years Defense Plan (FYDP). Construction projects within the District of Columbia with the exception of the Bolling/Anacostia area are submitted to the commission for approval prior to the start of construction.

ENVIRONMENTAL PROTECTION

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (P.L. 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

FY 2021 DEFENSE-WIDE REVIEW

The recently completed Defense-Wide Review (DWR), a major DoD initiative personally led by the Secretary of Defense, was undertaken to improve the alignment of time, money, and people to the National Defense Strategy (NDS) priorities. While a full bottom-up DWR review will continue in 2020, the FY 2021 President's Budget reflects the impact of savings generated from the initial review. The following table reflects the DWR reductions to the Defense-Wide Military Construction program in FY 2021.

Organization	State Country	Location Title	Line Item Title	TOA Amount
DHA	California	Travis AFB	Medical Consolidated Storage & Distribution Center	29,000
DHA	Hawaii	Joint Base Pearl Harbor-Hickam	Veterinary Treatment Facility	23,100
DHA	Maryland	Bethesda	Education and Research Building Addition	445,000
DHA	Washington	Joint Base Lewis-McChord	Ambulatory Care Center	21,400
DHA	United Kingdom	RAF Lakenheath	Hospital Replacment Phase 1	24,300
DLA	Germany	Germersheim	EDI: Hazardous Materials Warehouse*	8,000
DLA	Unspecified Worldwide	Unspecified Locations	Unspecified Minor Construction	7,554
DLA	Unspecified Worldwide	Unspecified Locations	Planning and Design	16,000
DoDEA	Germany	Baumholder	Baumholder Elementary School	72,410
MDA	Unspecified Worldwide	Unspecified Locations	Planning and Design	26,576
SOCOM	California	Coronado	SOF SERE Training Facility	26,500
SOCOM	California	Coronado	SOF ATC Operations Support Facility	20,200
SOCOM	Arizona	Yuma	SOF Military Free Fall Advanced Training Complex	54,100
SOCOM	Virginia	Dam Neck	SOF Operations Building Addition	25,100
SOCOM	North Carolina	Camp Lejeune	SOF Paraloft Expansion	7,100
SOCOM	Unspecified Worldwide	Unspecified Locations	Unspecified Minor Construction	11,995
SOCOM	Unspecified Worldwide	Unspecified Locations	Planning and Design	26,742
Joint Staff	Unspecified Worldwide	Unspecified Locations	Exercise Related Construction	3,200
WHS	Virginia	Pentagon Reservation (Raven Rock Mountain Complex)	Water Storage and Fencing	14,949
WHS	Virginia	Pentagon Reservation (Raven Rock Mountain Complex)	Public Works and Operational Support Facilities	19,000
Defense Level	Unspecified Worldwide	Unspecified Locations	Energy Resilience and Conservation Investment Prog	7,500
Defense Level	Unspecified Worldwide	Unspecified Locations	Contingency Construction	10,000
Defense Level	Unspecified Worldwide	Unspecified Locations	Unspecified	31,800
		Total FY 21 Military Construction Defense-Wide Review Reductions		**931,526**

* Balance of reduction taken in DLA O&M account

THIS PAGE INTENTIONALLY LEFT BLANK

FY 2021 Base Budget Estimates
Military Construction, Defense-Wide
Agency Summary
($000)

	Authorization	Appropriations
Defense Health Agency	-	420,000
Defense Information Systems Agency	33,728	33,728
Defense Logistics Agency	250,300	250,300
DoD Dependents Education Activity	69,310	99,310
Defense Threat Reduction Agency	46,600	46,600
Missile Defense Agency	48,000	48,000
National Geospatial-Intelligence Agency	-	119,000
National Security Agency	-	250,000
U.S. Special Operations Command	388,920	388,920
Energy Resilience and Conservation Invest Prog	142,500	142,500
Minor Construction	-	69,186
Planning and Design	-	159,976
TOTAL	979,358	2,027,520

THIS PAGE INTENTIONALLY LEFT BLANK

Defense Health Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Maryland				
Naval Support Activity Bethesda				
Medical Center Addition/Alteration				
Increment 4	-	180,000	C	3
Missouri				
Fort Leonard Wood				
Hospital Replacement Increment 3	-	40,000	C	11
Germany				
Rhine Ordnance Barracks				
Medical Center Replacement				
Increment 9	-	200,000	C	19
Total	**-**	**420,000**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (DHA)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
NAVSUPPACT Bethesda, Maryland	Commander Navy Installation Command	1.01

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20190930	2,512	1,617	234	0	0	0	56	36	0	4,455
b. END FY 2025	2,516	1,108	234	0	0	0	56	36	0	3,950

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	243.00
b. INVENTORY TOTAL AS OF 20190930	2,607,917.00
c. AUTHORIZATION NOT YET IN INVENTORY	510,000.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	308,200.00
g. REMAINING DEFICIENCY	47,046.00
h. GRAND TOTAL	3,473,163.00

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
51010	MEDCEN Addition / Alteration Incr 4	LS	180,000	FEB 2013	AUG 2017

9. FUTURE PROJECTS

51010	Medical Center Addition / Alteration Incr 5	LS	183,200	FEB 2013	AUG 2017
51010	Medical Center Addition / Alteration Incr 6	LS	125,000	FEB 2013	AUG 2017

10. MISSION OR MAJOR FUNCTIONS

Provides customer-focused installation management and base operating support to tenant activities in their pursuit of excellence. Partner in healing, wellness, research and education.

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 DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. Installation and Location:	4. Project Title:
Naval Support Activity Bethesda, Maryland	Medical Center Addition / Alteration, Increment 4

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	90417	Approp 180,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				492,214
Medical Center Addition - CATCODE 51010	SF	589,928	715.44	(422,059)
Medical Center Alteration - CATCODE 51010	SF	124,050	565.54	(70,155)
SUPPORTING FACILITIES				133,997
Electric Service	LS	--	--	(6,255)
Water, Sewer, Gas	LS	--	--	(5,440)
Steam and Chilled Water Distribution	LS	--	--	(3,865)
Paving, Walks, Curbs and Gutters	LS	--	--	(14,168)
Storm Drainage	LS	--	--	(5,289)
Site Imp (18,190) Demo (11,104)	LS	--	--	(29,294)
Information Systems	LS	--	--	(5,376)
Antiterrorism/Force Protection	LS	--	--	(5,376)
Construction Phasing	LS	--	--	(13,443)
Special Foundation	LS	--	--	(15,035)
EISA 2007 Section 438 (Low Impact Development)	LS	--	--	(3,031)
Other (O&M Manuals, Post Construction Award Services, Enhanced Commissioning) and Below Grade Coordination	LS	--	--	(27,425)
ESTIMATED CONTRACT COST				626,211
CONTINGENCY PERCENT (5.00%)				31,311
SUBTOTAL				657,522
SUPERVISION, INSPECTION & OVERHEAD (5.70%)				37,479
TOTAL REQUEST				695,001
TOTAL REQUEST (ROUNDED)				695,000
PREVIOUS APPROPRIATIONS				206,800
FUTURE APPROPRIATION REQUEST				308,200
CURRENT APPROPRIATION REQUEST (ROUNDED)				180,000
INSTALLED EQT-OTHER APPROPRIATIONS				(137,954)

10. Description of Proposed Construction:

This is the fourth increment of the NAVSUPPACT Bethesda MD, Medical Center Addition/Alteration (MCAA). The project will construct a new addition for in-patient and out-patient medical care, renovate the existing hospital Buildings 9 and 10, provide information systems, and provide appropriate antiterrorism measures. Deteriorated Buildings 2, 4, 6, 7, 8 and 100 of the main hospital complex will be demolished. Construction requires appropriate setbacks for access to natural light. Supporting facilities include utilities, paving, site improvements, special foundations, and environmental mitigation. The project will be designed in accordance with Unified Facilities Criteria (UFC) 4-510-01 Design: Military Medical Facilities, UFC 1-200-01 General Building Requirements, UFC 1-200-02 High Performance and Sustainable Building Requirements, UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings, barrier free design in accordance with Architectural Barriers Act (ABA) Accessibility Standard and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008, and MHS World Class principles per World Class Checklist Requirements. The project will be designed to LEED Healthcare (HC) Silver certified. Operations and Maintenance Manuals, Enhanced Commissioning, and Comprehensive Interior Design will be provided.

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. Installation and Location:	4. Project Title:
Naval Support Activity Bethesda, Maryland	Medical Center Addition / Alteration, Increment 4

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	90417	Approp 180,000

11. REQ: 2,551,618 SF ADQT: 608,163 SUBSTD: 1,229,477 SF

PROJECT:
The project implements a comprehensive master plan to provide sufficient world-class military medical facilities and an integrated system of healthcare delivery for the National Capital Region. This renovation of, and addition to Walter Reed National Military Medical Center will provide wounded warriors, active duty military personnel, and other beneficiaries with world-class healthcare services based on the principles of evidence-based design. This project encompasses 124,050 SF of renovations to currently occupied space, demolition of approximately 332,000 SF of aged and deficient buildings, and the construction of a new 589,928 SF state-of-the-art medical services building that will address the facility and program deficiencies identified by the Defense Health Board in their 2009 report. Specific goals of the project include single-bed patient rooms, promotion of family-centered care, use of natural light, and establishing clear way finding for patients, families, visitors and staff. The project will right-size the facility, modernize architectural and engineering systems, improve clinical spaces to support adjacencies, provide functional areas for the Women's Center and Ambulatory Surgery suites. The project will also modernize the Graduate and Professional Medical Education facility, and integrate the latest medical technologies throughout the medical center infrastructure. (CURRENT MISSION)

REQUIREMENT:
The new construction and renovations incorporates the 2010 Joint Task Force study findings and creates a new north-south and east-west axes of travel and will include a new major public entrance on the east side of the facility. Development of these direct pathways will facilitate way finding and improve connectivity among clinics, offices and community facilities.

CURRENT SITUATION:
The current hospital configuration does not meet the needs of the military healthcare mission at this installation. The existing facility lacks flexibility, prohibits expansion, contains deficient electrical, mechanical and environmental engineering systems, and does not provide adequate space to meet health mission programs.

IMPACT IF NOT PROVIDED:
The concerns presented in the May 2009 report from the Defense Health Board will persist at this inefficient, outdated and deficient facility without modernization and improvement to its infrastructure, and the Walter Reed National Military Medical Center will not be able to provide proper healthcare and medical treatment to our military personnel.

JOINT USE CERTIFICATION:
The Chief, Facilities Enterprise, Defense Health Agency has reviewed this project for Joint Use potential. Joint Use construction is recommended.

12. Supplemental

A. Estimated Execution Data
(1) Acquisition Strategy: Design Bid Build

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. Installation and Location:	4. Project Title:
Naval Support Activity Bethesda, Maryland	Medical Center Addition / Alteration, Increment 4

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	90417	Approp 180,000

Supplemental Data (Continued):

(2) Design Data:

(a) Design Started:	FEB/2013
(b) Percent of Design Completed as of Jan 2020 (BY-1):	100%
(c) Design Complete:	AUG/2017
(d) Total Design Cost ($000):	35,140
(e) Energy Studies and/or Life Cycle Analysis Performed:	Yes
(f) Standard or definitive design used?	No

(3) Construction Data:

(a) Contract Award:	SEP/2017
(b) Construction Start:	NOV/2017
(c) Construction Complete:	JUN/2024

(4) Facility Condition Index: 68

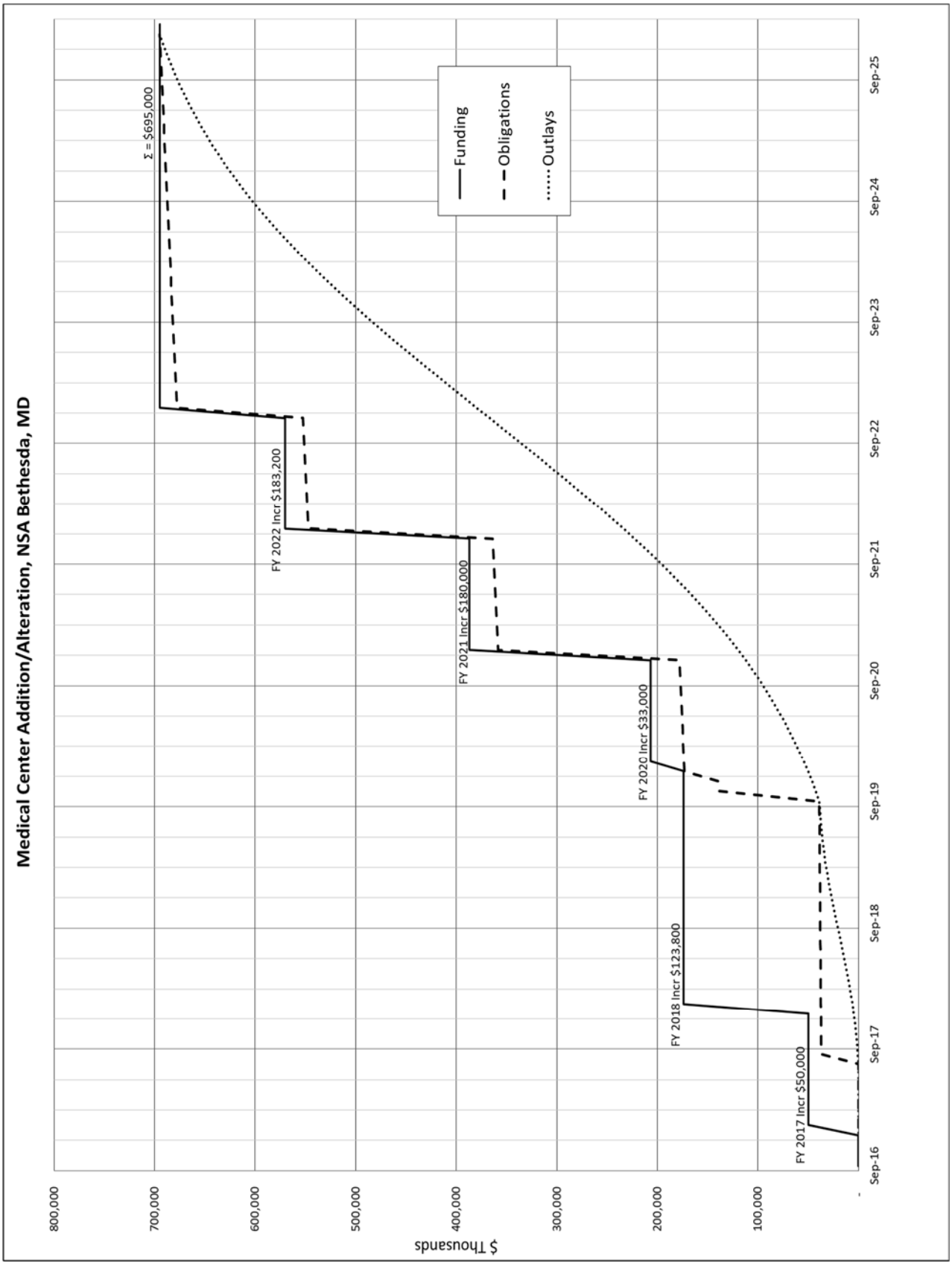
B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Expense	OM	2017	6,350
Expense	OM	2018	19,967
Investment	OP	2019	6,959
Expense	OM	2019	8,576
Investment	OP	2020	6,959
Expense	OM	2020	15,032
Investment	OP	2021	6,959
Expense	OM	2021	27,152
Expense	OP	2022	5,000
Expense	OM	2022	30,000
Expense	OM	2023	5,000

C. FUNDING PROFILE:

Authorization 2017		$ 510,000,000
Cost Variation July 2019		$ 185,000,000
	Total	$ 695,000,000
Appropriations		
2017		$ 50,000,000
2018		$ 123,800,000
2020		$ 33,000,000
2021		$ 180,000,000
2022		$ 183,200,000
2023		$ 125,000,000
	Total	$ 695,000,000

Chief, Design, Construction & Activation Office
Phone Number: 703-275-6077


Medical Center Addition/Alteration, NSA Bethesda, MD
$ Thousands
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
-
Sep-16
Sep-17
Sep-18
Sep-19
Sep-20
Sep-21
Sep-22
Sep-23
Sep-24
Sep-25
Funding
Obligations
Outlays
Σ = $695,000
FY 2017 Incr $50,000
FY 2018 Incr $123,800
FY 2020 Incr $33,000
FY 2021 Incr $180,000
FY 2022 Incr $183,200

PROJECT SPENDING PLAN
PROJECT: Medical Center Addition/Alteration, NSA Bethesda, MD
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Sep-16		-	-	-	-	-
Oct-16	-	-	-	-	-	-
Nov-16	-	-	-	-	-	-
Dec-16	-	-	-	-	-	-
Jan-17	50,000	50,000	-	-	-	-
Feb-17	-	50,000	-	-	-	-
Mar-17	-	50,000	-	-	-	-
Apr-17	-	50,000	-	-	-	-
May-17	-	50,000	-	-	-	-
Jun-17	-	50,000	-	-	-	-
Jul-17	-	50,000	-	-	-	-
Aug-17	-	50,000	-	-	-	-
Sep-17	-	50,000	37,021	37,021	663	663
Oct-17	-	50,000	79	37,100	792	1,455
Nov-17	-	50,000	79	37,180	924	2,379
Dec-17	-	50,000	79	37,259	1,073	3,452
Jan-18	123,800	173,800	79	37,338	1,232	4,684
Feb-18	-	173,800	79	37,417	1,392	6,076
Mar-18	-	173,800	79	37,497	1,552	7,628
Apr-18	-	173,800	79	37,576	1,704	9,333
May-18	-	173,800	79	37,655	1,845	11,177
Jun-18	-	173,800	79	37,734	1,966	13,143
Jul-18	-	173,800	79	37,814	2,063	15,206
Aug-18	-	173,800	79	37,893	2,129	17,336
Sep-18	-	173,800	79	37,972	2,165	19,500
Oct-18	-	173,800	79	38,052	2,165	21,665
Nov-18	-	173,800	79	38,131	2,129	23,794
Dec-18	-	173,800	79	38,210	2,063	25,857
Jan-19	-	173,800	79	38,289	1,966	27,823
Feb-19	-	173,800	79	38,369	1,845	29,667
Mar-19	-	173,800	79	38,448	1,704	31,372
Apr-19	-	173,800	79	38,527	1,552	32,924
May-19	-	173,800	79	38,606	1,392	34,316
Jun-19	-	173,800	79	38,685	1,232	35,549
Jul-19	-	173,800	79	38,764	1,073	36,621
Aug-19	-	173,800	79	38,843	924	37,545
Sep-19	-	173,800	79	38,922	792	38,337
Oct-19	-	173,800	79	39,000	663	39,000
Nov-19	-	173,800	100,130	139,131	3,538	42,538
Dec-19	-	173,800	462	139,593	3,760	46,298
Jan-20	33,000	206,800	33,462	173,055	3,991	50,289
Feb-20	-	206,800	462	173,518	4,234	54,523
Mar-20	-	206,800	462	173,980	4,486	59,009
Apr-20	-	206,800	462	174,442	4,749	63,758

PROJECT SPENDING PLAN
PROJECT: Medical Center Addition/Alteration, NSA Bethesda, MD
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
May-20	-	206,800	462	174,904	5,021	68,779
Jun-20	-	206,800	462	175,367	5,302	74,081
Jul-20	-	206,800	462	175,829	5,592	79,673
Aug-20	-	206,800	462	176,291	5,889	85,562
Sep-20	-	206,800	462	176,753	6,194	91,756
Oct-20	-	206,800	462	177,216	6,504	98,260
Nov-20	-	206,800	462	177,678	6,820	105,080
Dec-20	180,000	386,800	462	178,140	7,140	112,220
Jan-21	-	386,800	180,462	358,603	7,463	119,683
Feb-21	-	386,800	462	359,065	7,788	127,471
Mar-21	-	386,800	462	359,527	8,114	135,585
Apr-21	-	386,800	462	359,989	8,438	144,023
May-21	-	386,800	462	360,452	8,761	152,784
Jun-21	-	386,800	462	360,914	9,080	161,864
Jul-21	-	386,800	462	361,376	9,393	171,257
Aug-21	-	386,800	462	361,838	9,700	180,957
Sep-21	-	386,800	462	362,301	9,999	190,956
Oct-21	-	386,800	462	362,763	10,289	201,245
Nov-21	-	386,800	462	363,225	10,567	211,812
Dec-21	183,200	570,000	462	363,687	10,833	222,645
Jan-22	-	570,000	183,662	547,350	11,084	233,729
Feb-22	-	570,000	462	547,812	11,320	245,049
Mar-22	-	570,000	462	548,274	11,540	256,589
Apr-22	-	570,000	462	548,736	11,741	268,330
May-22	-	570,000	462	549,199	11,923	280,253
Jun-22	-	570,000	462	549,661	12,085	292,338
Jul-22	-	570,000	462	550,123	12,225	304,563
Aug-22	-	570,000	462	550,585	12,343	316,906
Sep-22	-	570,000	462	551,048	12,439	329,345
Oct-22	-	570,000	462	551,510	12,511	341,856
Nov-22	-	570,000	462	551,972	12,560	354,416
Dec-22	125,000	695,000	462	552,435	12,584	367,000
Jan-23		695,000	125,462	677,897	12,584	379,584
Feb-23		695,000	462	678,359	12,560	392,144
Mar-23	-	695,000	462	678,821	12,511	404,655
Apr-23	-	695,000	462	679,284	12,439	417,094
May-23	-	695,000	462	679,746	12,343	429,437
Jun-23	-	695,000	462	680,208	12,225	441,662
Jul-23	-	695,000	462	680,670	12,085	453,747
Aug-23	-	695,000	462	681,133	11,923	465,670
Sep-23	-	695,000	462	681,595	11,741	477,411
Oct-23	-	695,000	462	682,057	11,540	488,951
Nov-23	-	695,000	462	682,519	11,320	500,271
Dec-23	-	695,000	462	682,982	11,084	511,355

PROJECT SPENDING PLAN
PROJECT: Medical Center Addition/Alteration, NSA Bethesda, MD
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Jan-24	-	695,000	462	683,444	10,833	522,188
Feb-24	-	695,000	462	683,906	10,567	532,755
Mar-24	-	695,000	462	684,368	10,289	543,044
Apr-24	-	695,000	462	684,831	9,999	553,043
May-24	-	695,000	462	685,293	9,700	562,743
Jun-24	-	695,000	462	685,755	9,393	572,136
Jul-24	-	695,000	462	686,217	9,080	581,216
Aug-24	-	695,000	462	686,680	8,761	589,977
Sep-24	-	695,000	462	687,142	8,437	598,414
Oct-24	-	695,000	462	687,604	8,114	606,528
Nov-24	-	695,000	462	688,067	7,788	614,316
Dec-24	-	695,000	462	688,529	7,463	621,779
Jan-25	-	695,000	462	688,991	7,140	628,919
Feb-25	-	695,000	462	689,453	6,820	635,739
Mar-25	-	695,000	462	689,916	6,504	642,243
Apr-25	-	695,000	462	690,378	6,194	648,437
May-25	-	695,000	462	690,840	5,889	654,326
Jun-25	-	695,000	462	691,302	5,592	659,918
Jul-25	-	695,000	462	691,765	5,302	665,220
Aug-25	-	695,000	462	692,227	5,021	670,241
Sep-25	-	695,000	462	692,689	4,749	674,990
Oct-25	-	695,000	462	693,151	4,486	679,476
Nov-25	-	695,000	462	693,614	4,234	683,710
Dec-25	-	695,000	462	694,076	3,991	687,701
Jan-26	-	695,000	462	694,538	3,760	691,461
Feb-26	-	695,000	462	695,000	3,539	695,000

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (DHA)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Fort Leonard Wood, Missouri	US Army Installation Management Command	1.06

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20191030	1,108	4,497	2,833	1,151	19,208	65	188	772	3,405	33,227
b. END FY 2025	1,033	4,557	2,798	1,037	18,599	56	188	779	3,264	32,311

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	67,796.00
b. INVENTORY TOTAL AS OF 20190630	8,077,097.00
c. AUTHORIZATION NOT YET IN INVENTORY	381,000.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	191,300.00
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	8,649,397.00

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
51010	Hospital Replacement Incr 3	LS	40,000	NOV 2017	JAN 2019

9. FUTURE PROJECTS

51010	Hospital Replacement Incr 4	LS	160,000	NOV 2017	JAN 2019
51010	Hospital Replacement Incr 5	LS	31,300	NOV 2017	JAN 2019

10. MISSION OR MAJOR FUNCTIONS

Provides support and facilities for a US Army Training Center, US Army Engineer School, US Army Prime Power School, US Army Chemical School, US Army Military Police School, US Army Reception Station, Noncommissioned Officer Academy/Drill Sergeant School, US Army Hospital, major combat and combat support forces and other tenant activities. Supports Reserve Components and other satellite activities and units.

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 DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. Installation and Location/UIC:	4. Project Title:
Fort Leonard Wood, Missouri	Hospital Replacement, Increment 3

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	77168	Approp: 40,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				266,033
Hospital Replacement - CATCODE 51010	SF	242,631	621	(150,674)
Health Clinic Replacement - CATCODE 55010	SF	198,769	404	(80,303)
Optical Fab Lab Alteration - CATCODE 53020	SF	9,979	193	(1,926)
Ambulance Garage Replacement	LS	--	--	(460)
Central Utility Plant Replacement	LS	--	--	(29,550)
Helipad	LS	--	--	(890)
Emergency Generator	LS	--	--	(302)
Building Information System	LS	--	--	(1,157)
SDD, EPAct, Renewable Energy	LS	--	--	(771)
SUPPORTING FACILITIES				59,973
Electric Service	LS	--	--	(5,127)
Water, Sewer, Gas	LS	--	--	(4,228)
Steam and/or Chilled Water Distribution	LS	--	--	(1,780)
Parking/Paving, Walks, Curbs And Gutters	LS	--	--	(9,146)
Storm Drainage	LS	--	--	(2,879)
Site Imp (8,681) Demo (11,036)	LS	--	--	(19,717)
Information Systems	LS	--	--	(2,992)
EISA 2007 Section 438 (Low Impact Development)	LS	--	--	(480)
Antiterrorism/Force Protection	LS	--	--	(2,931)
Special Foundations	LS	--	--	(1,920)
Other (O&M Manuals, CID, DDC, and Enhanced Commissioning)	LS	--	--	(8,773)
ESTIMATED CONTRACT COST				326,006
CONTINGENCY PERCENT (5.00%)				16,300
SUBTOTAL				342,306
SUPERVISION, INSPECTION & OVERHEAD (5.70%)				19,511
DESIGN/BUILD DESIGN–DESIGN COST (6.00%)				19,560
TOTAL REQUEST				381,377
TOTAL REQUEST (ROUNDED)				381,300
PREVIOUS APPROPRIATIONS				150,000
CURRENT APPROPRIATION REQUEST				40,000
FUTURE APPROPRIATION REQUEST				191,300
INSTALLED EQT-OTHER APPROPRIATIONS				(93,870)

10. Description of Proposed Construction:

This is the third increment of the Fort Leonard Wood, Missouri Hospital Replacement. The project will construct a multi-story hospital replacement. This project provides inpatient health services, outpatient health clinics, ancillary support spaces to include nutrition, imaging, pharmacy, laboratory and radiology, central utility plant, a helipad, and optical fabrication laboratory. The old hospital will be demolished. Supporting facilities include utilities, information systems, site improvements, special foundation, access drive, parking, signage, environmental protection measures, antiterrorism force protection measures, hazardous material abatement, rock excavation and low impact development. The project will be designed in accordance with Unified Facilities Criteria (UFC) 4-510-01 Design: Military Medical Facilities, UFC 1-200-01 General Building Requirements, UFC 1-200-02 High Performance and Sustainable Building Requirements, UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings, barrier free design in accordance with Architectural

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. Installation and Location/UIC:	4. Project Title:
Fort Leonard Wood, Missouri	Hospital Replacement, Increment 3

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	77168	Approp: 40,000

Description of Proposed Construction (Continued):
Barriers Act (ABA) Accessibility Standard and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008, and MHS World Class principles per World Class Checklist Requirements. Operation and Maintenance Manuals, Comprehensive Interior Design, Design During Construction and Enhanced Commissioning will be provided.

11.	REQ:	ADQT:	SUBSTD:
CATCODE 51010	242,631 SF	NONE	461,424 SF
CATCODE 55010	303,951 SF	121,550 SF	4,800 SF
CATCODE 53020	9,979 SF	NONE	9,267 SF

PROJECT:
Construct Hospital Replacement. (CURRENT MISSION)

REQUIREMENT:
This project is required to provide a modern medical campus for the provision of inpatient care to the Ft Leonard Wood beneficiary population. The hospital provides the following departments: Chapel, Logistics, Food Services, Pharmacy (Inpatient) Pathology and Clinical Laboratory, Radiology, Nuclear Medicine, Sterile Processing, Surgical/Interventional Services, Inpatient Behavioral Health, Labor & Delivery / Obstetrics Unit, Multi-Service Inpatient Unit, Emergency and Ambulance Services, Information Management, Health Benefits and Patient Administration, General Administration, and Common Areas. The health clinic provides the following departments: Behavioral Health Clinic, Cardiology/Pulmonary Services Clinic, Education and Training, General Administration, General Surgery Clinic, Health Benefits and Patient Administration, Ophthalmology/Optometry/ ENT/Audiology Clinics, Orthopedics/Podiatry Clinic, Laboratory Specimen Collection, Patient Centered Medical Home Clinic, Outpatient Pharmacy, Physical/Occupational Therapy & Chiropractic Clinics, Preventative Medicine Clinic, and Women's Health Clinic.

CURRENT SITUATION:
General Leonard Wood Army Hospital is currently housed in a facility that is over 40 years old and is located on a constrained site. The current facility shows major deficiencies with key building systems and components such as structures and mechanical, electrical and plumbing systems. The hospital is also deficient in environmental and code compliance and does not meet requirements of the Architectural Barriers Act.

IMPACT IF NOT PROVIDED:
Care on the base will continue to be provided in an outdated facility away from installation troop densities.

ADDITIONAL:
This submission is supported by an economic analysis. The project is not within the 100-yr floodplain.

JOINT USE CERTIFICATION:
The Chief, Defense Health Agency, Facilities Enterprise has reviewed this project for joint use potential. Joint use construction is recommended.

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Build
(2) Design Data:	
(a) Request for Proposal (RFP) Started:	NOV/2017

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. Installation and Location/UIC:	4. Project Title:
Fort Leonard Wood, Missouri	Hospital Replacement, Increment 3

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	77168	Approp: 40,000

Supplemental Data (Continued):

(b) Percent of Design Completed as of Jan 2020 (BY-1):	100%
(c) Request for Proposal Complete:	JAN/2019
(d) Total Design Cost ($000):	22,878
(e) Energy Studies and/or Life Cycle Analysis Performed:	Yes
(f) Standard or definitive design used?	No
(3) Construction Data:	
(a) Contract Award:	AUG/2019
(b) Construction Start:	MAR/2020
(c) Construction Complete:	SEP/2027
(4) Facility Condition Index:	95

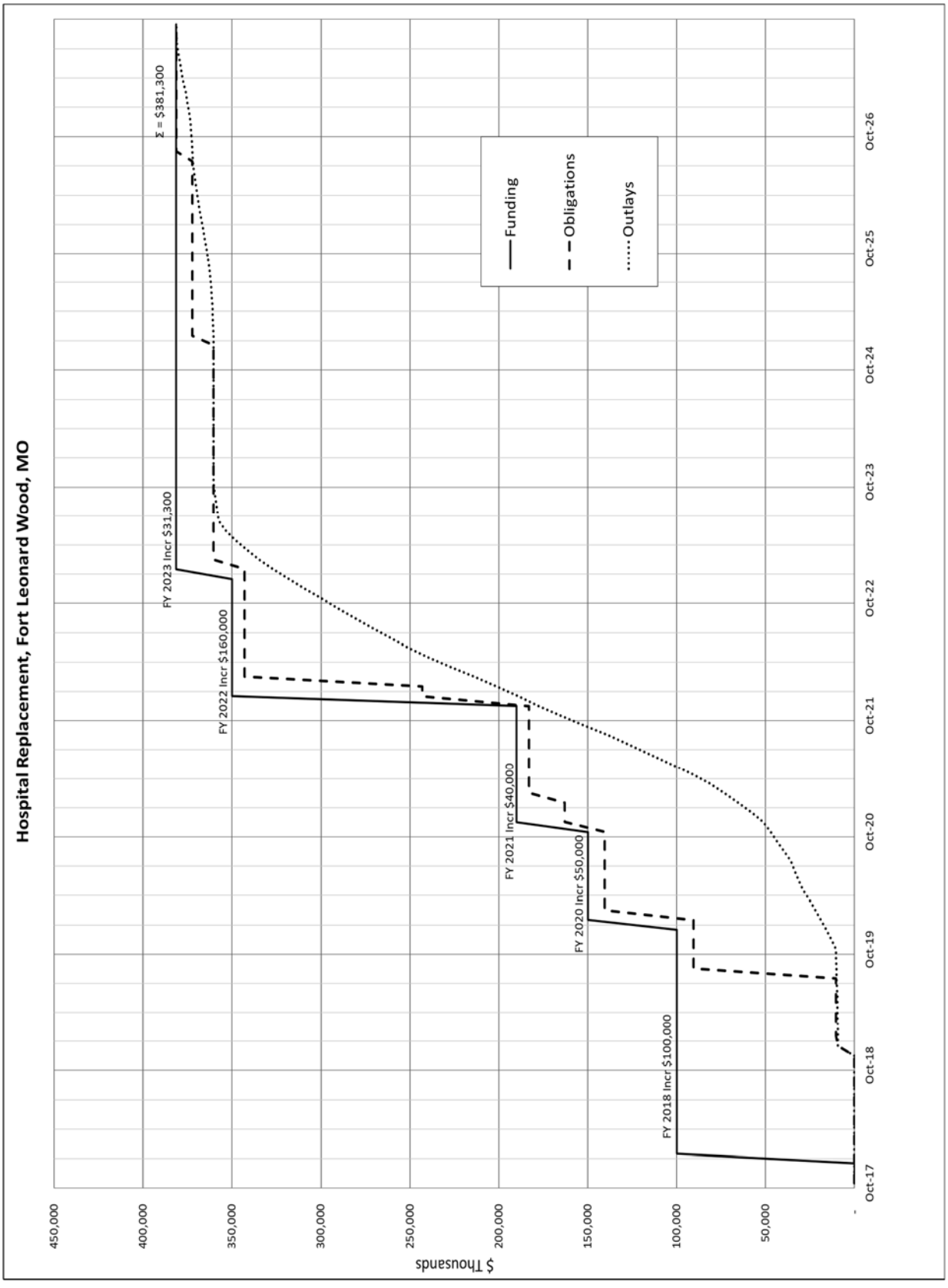
B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Investment	OP	2022	10,500
Investment	OP	2023	7,000
Expense	OM	2021	17,500
Expense	OM	2022	20,520
Expense	OM	2023	30,750
Expense	OM	2024	7,600

C. FUNDING PROFILE:

Authorization 2018	$ 381,300,000
Appropriations	
2018	$ 100,000,000
2020	$ 50,000,000
2021	$ 40,000,000
2022	$ 160,000,000
2023	$ 31,300,000
	$ 381,300,000

Chief, Design, Construction & Activation Office:
Phone Number: 703-275-6077


Hospital Replacement, Fort Leonard Wood, MO
$ Thousands
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
Oct-17
Oct-18
Oct-19
Oct-20
Oct-21
Oct-22
Oct-23
Oct-24
Oct-25
Oct-26
Σ = $381,300
FY 2023 Incr $31,300
FY 2022 Incr $160,000
FY 2021 Incr $40,000
FY 2020 Incr $50,000
FY 2018 Incr $100,000
Funding
Obligations
Outlays

PROJECT SPENDING PLAN
PROJECT: Hospital Replacement, Fort Leonard Wood, MO
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-17	-	-	-	-	-	-
Nov-17	-	-	-	-	-	-
Dec-17	-	-	-	-	-	-
Jan-18	100,000	100,000	-	-	-	-
Feb-18	-	100,000	-	-	-	-
Mar-18	-	100,000	-	-	-	-
Apr-18	-	100,000	-	-	-	-
May-18	-	100,000	-	-	-	-
Jun-18	-	100,000	-	-	-	-
Jul-18	-	100,000	-	-	-	-
Aug-18	-	100,000	-	-	-	-
Sep-18	-	100,000	-	-	-	-
Oct-18	-	100,000	-	-	-	-
Nov-18	-	100,000	-	-	-	-
Dec-18	-	100,000	9,423	9,423	9,423	9,423
Jan-19	-	100,000	1,021	10,444	-	9,423
Feb-19	-	100,000	-	10,444	31	9,454
Mar-19	-	100,000	-	10,444	54	9,508
Apr-19	-	100,000	-	10,444	68	9,576
May-19	-	100,000	-	10,444	142	9,718
Jun-19	-	100,000	-	10,444	170	9,888
Jul-19	-	100,000	-	10,444	198	10,086
Aug-19	-	100,000	80,000	90,444	142	10,228
Sep-19	-	100,000	-	90,444	150	10,378
Oct-19	-	100,000	-	90,444	65	10,444
Nov-19	-	100,000	-	90,444	2,515	12,959
Dec-19	-	100,000	-	90,444	3,006	15,965
Jan-20	50,000	150,000	-	90,444	3,006	18,972
Feb-20	-	150,000	50,000	140,444	3,006	21,978
Mar-20	-	150,000	-	140,444	3,269	25,247
Apr-20	-	150,000	-	140,444	3,760	29,007
May-20	-	150,000	-	140,444	2,292	31,300
Jun-20	-	150,000	-	140,444	2,260	33,560
Jul-20	-	150,000	-	140,444	2,260	35,820
Aug-20	-	150,000	-	140,444	3,767	39,587
Sep-20	-	150,000	-	140,444	3,799	43,385
Oct-20	-	150,000	-	140,444	3,767	47,152
Nov-20	40,000	190,000	22,565	163,008	4,167	51,319
Dec-20	-	190,000	-	163,008	6,349	57,668
Jan-21	-	190,000	-	163,008	7,742	65,410
Feb-21	-	190,000	20,084	183,092	7,845	73,255
Mar-21	-	190,000	-	183,092	8,466	81,721
Apr-21	-	190,000	-	183,092	9,790	91,511
May-21	-	190,000	-	183,092	11,643	103,154

PROJECT SPENDING PLAN
PROJECT: Hospital Replacement, Fort Leonard Wood, MO
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Jun-21	-	190,000	-	183,092	11,921	115,075
Jul-21	-	190,000	-	183,092	11,862	126,937
Aug-21	-	190,000	-	183,092	11,328	138,265
Sep-21	-	190,000	-	183,092	13,733	151,998
Oct-21	-	190,000	-	183,092	13,348	165,346
Nov-21	-	190,000	-	183,092	12,113	177,460
Dec-21	160,000	350,000	59,916	243,008	11,438	188,897
Jan-22	-	350,000	-	243,008	12,347	201,245
Feb-22	-	350,000	100,000	343,008	12,838	214,083
Mar-22	-	350,000	-	343,008	12,838	226,922
Apr-22	-	350,000	-	343,008	12,838	239,760
May-22	-	350,000	-	343,008	11,856	251,616
Jun-22	-	350,000	-	343,008	9,826	261,442
Jul-22	-	350,000	-	343,008	9,826	271,267
Aug-22	-	350,000	-	343,008	9,826	281,093
Sep-22	-	350,000	-	343,008	9,826	290,918
Oct-22	-	350,000	-	343,008	9,072	299,990
Nov-22	-	350,000	-	343,008	9,072	309,062
Dec-22	-	350,000	-	343,008	9,072	318,133
Jan-23	31,300	381,300	-	343,008	9,072	327,205
Feb-23	-	381,300	17,511	360,519	7,532	334,737
Mar-23	-	381,300	-	360,519	6,813	341,550
Apr-23	-	381,300	-	360,519	6,813	348,363
May-23	-	381,300	-	360,519	5,313	353,675
Jun-23	-	381,300	-	360,519	3,773	357,448
Jul-23	-	381,300	-	360,519	760	358,208
Aug-23	-	381,300	-	360,519	792	359,001
Sep-23	-	381,300	-	360,519	760	359,761
Oct-23	-	381,300	-	360,519	760	360,521
Nov-23	-	381,300	-	360,519	-	360,521
Dec-23	-	381,300	-	360,519	-	360,521
Jan-24	-	381,300	-	360,519	-	360,521
Feb-24	-	381,300	-	360,519	-	360,521
Mar-24	-	381,300	-	360,519	-	360,521
Apr-24	-	381,300	-	360,519	-	360,521
May-24	-	381,300	-	360,519	-	360,521
Jun-24	-	381,300	-	360,519	-	360,521
Jul-24	-	381,300	-	360,519	-	360,521
Aug-24	-	381,300	-	360,519	-	360,521
Sep-24	-	381,300	-	360,519	-	360,521
Oct-24	-	381,300	-	360,519	-	360,521
Nov-24	-	381,300	-	360,519	-	360,521
Dec-24	-	381,300	-	360,519	-	360,521
Jan-25	-	381,300	11,715	372,234	-	360,521

PROJECT SPENDING PLAN
PROJECT: Hospital Replacement, Fort Leonard Wood, MO
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Feb-25	-	381,300	-	372,234	148	360,669
Mar-25	-	381,300	-	372,234	179	360,848
Apr-25	-	381,300	-	372,234	222	361,070
May-25	-	381,300	-	372,234	345	361,415
Jun-25	-	381,300	-	372,234	370	361,785
Jul-25	-	381,300	-	372,234	370	362,154
Aug-25	-	381,300	-	372,234	616	362,770
Sep-25	-	381,300	-	372,234	752	363,522
Oct-25	-	381,300	-	372,234	888	364,410
Nov-25	-	381,300	-	372,234	926	365,336
Dec-25	-	381,300	-	372,234	961	366,297
Jan-26	-	381,300	-	372,234	1,097	367,394
Feb-26	-	381,300	-	372,234	988	368,382
Mar-26	-	381,300	-	372,234	739	369,122
Apr-26	-	381,300	-	372,234	851	369,972
May-26	-	381,300	-	372,234	863	370,835
Jun-26	-	381,300	-	372,234	741	371,576
Jul-26	-	381,300	-	372,234	438	372,014
Aug-26	-	381,300	9,066	381,300	390	372,404
Sep-26	-	381,300	-	381,300	244	372,648
Oct-26	-	381,300	-	381,300	391	373,038
Nov-26	-	381,300	-	381,300	418	373,457
Dec-26	-	381,300	-	381,300	697	374,154
Jan-27	-	381,300	-	381,300	935	375,089
Feb-27	-	381,300	-	381,300	1,046	376,135
Mar-27	-	381,300	-	381,300	1,158	377,293
Apr-27	-	381,300	-	381,300	1,116	378,409
May-27	-	381,300	-	381,300	878	379,287
Jun-27	-	381,300	-	381,300	977	380,264
Jul-27	-	381,300	-	381,300	788	381,052
Aug-27	-	381,300	-	381,300	249	381,300
Sep-27	-	381,300	-	381,300	-	381,300

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (DHA)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Germany Various, Germany	US Army Installation Management Command	0.97

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20191031	0	0	0	0	0	0	0	0	0	0
b. END FY 2025	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	114,032.00
b. INVENTORY TOTAL AS OF 20180930	27,842,885.00
c. AUTHORIZATION NOT YET IN INVENTORY	3,227,015.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0.00
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	31,069,900.00

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
51010	Medical Center Replacement, Incr 9	LS	200,000	NOV 2010	JUN 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Installations support US Army, Europe and Seventh Army (USAREUR), a trained and ready force capable of rapid responding and operating jointly in support of US EUCOM theater strategy. Installations serve as bases for projecting power in and out of EUCOM areas of responsibility by providing facilities for training, maintaining, housing, and supporting subordinate and supporting units/organizations. These units consist of combat support, and combat service support tactical units as well as theater, mission, installation support, and quality of life organizations required to maintain a trained and ready force oversees.

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 DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**			2. Date FEB 2020
3. Installation and Location: Rhine Ordnance Barracks, Germany		4. Project Title: Medical Center Replacement, Increment 9		
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 95984	8. Project Cost ($000) 200,000	

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				814,443
Medical Center/Hospital (33,082 SM)	SF	356,091	586	(208,656)
Medical Clinic (36,659 SM)	SF	394,594	582	(229,723)
Administrative Facility (12,455 SM)	SF	134,061	476	(63,768)
Medical Warehouse (9,070 SM)	SF	97,631	411	(40,167)
Ambulance Garage (283 SM)	SF	3,045	387	(1,177)
Canopies (733 SM)	SF	7,890	387	(3,054)
Special Foundations (37,959 SM)	SF	408,587	22	(9,039)
Service Basement (20,638 SM)	SF	222,146	246	(54,740)
Parking Structures	SP	1,642	22,468	(36,892)
Central Utility Plant	LS	--	--	(40,847)
Communication Center Alterations (Bldgs 711 & 164)	LS	--	--	(2,142)
Bridge and Road Improvements	LS	--	--	(10,633)
Access Control Point Facility	LS	--	--	(24,393)
World Class Design	LS	--	--	(12,021)
SDD & EPAct05, EISA2007, and Renewable Energy	LS	--	--	(25,514)
Building Information Systems	LS	--	--	(28,173)
Antiterrorism Measures	LS	--	--	(23,504)
SUPPORTING FACILITIES				243,678
Electric Service	LS	--	--	(36,681)
Water, Sewer, Gas	LS	--	--	(17,738)
Steam and/or Chilled Water Distribution	LS	--	--	(3,423)
Paving, Walks, Curbs and Gutters	LS	--	--	(15,564)
Storm Drainage	LS	--	--	(27,439)
Site Improvement (24,522) Demo (1,686)	LS	--	--	(26,208)
Information Systems	LS	--	--	(5,479)
Antiterrorism Measures	LS	--	--	(10,773)
Environmental Compensation	LS	--	--	(16,214)
Environmental Landfill Remediation	LS	--	--	(3,471)
Other (O&M Manuals, CID, DDC and Enhanced Commissioning)	LS	--	--	(80,688)
ESTIMATED CONTRACT COST				1,058,121
CONTINGENCY PERCENT (5.00%)				52,906
SUBTOTAL				1,111,027
SUPERVISION, INSPECTION & OVERHEAD (6.50%)				72,217
CATEGORY E EQUIPMENT				29,759
TOTAL REQUEST				1,213,003
TOTAL REQUEST (ROUNDED)				1,213,000
PREVIOUS APPROPRIATIONS				1,013,000
CURRENT APPROPRIATION REQUEST (UNROUNDED)				200,000
INSTALLED EQT-OTHER APPROPRIATIONS				(177,753)

10. Description of Proposed Construction:
Fund the ninth increment of a multi-story Medical Center to replace the Landstuhl Regional Medical Center and the 86th Medical Group (MDG) Clinic. The Hospital will provide inpatient services with contingency expansion, outpatient and

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020
3. Installation and Location: Rhine Ordnance Barracks, Germany	4. Project Title: Medical Center Replacement, Increment 9	

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	95984	200,000

Description of Proposed Construction (Continued):
specialty care clinics, Aero Medical Staging Facility (ASF), support functions, medical administration, and sub-basement zones. Ancillary facilities include ambulance garage, parking garage, central energy plant, helicopter pad, and road improvements. Supporting facilities include: contingency utilities and laydown area, site improvements, surface parking, access roads, Communications Building alteration, bridge and road improvements, access control point facilities, demolition and site clearance of former ordnance storage area and environmental protection and mitigation. The existing Landstuhl Regional Medical Center and the existing 86th MDG facilities will be returned to respective installations for other uses except for Blood Donor Center, contingency and bulk storage logistics will remain on Landstuhl. The project will be designed in accordance with the criteria prescribed in Unified Facilities Criteria UFC 4-510-01, DoD Minimum Antiterrorism Standards for Buildings UFC 4-010-01, barrier-free design in accordance with DoD, "ABA (Architectural Barriers Act) Accessibility Standard" and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008, Evidence Based Design principles, MHS World Class Checklist Requirements, Executive Order 13514, DoD Strategic Sustainability Performance Plan (SSPP), the Energy Policy Act of 2005 (EAPct05), and in accordance with the host nation Status of Forces Agreement (SOFA). The project will be LEED Healthcare Silver certifiable. Operation and Maintenance Manuals, Design During Construction, Enhanced Commissioning, and Comprehensive Interior Design will be provided.

11. REQ: 1,119,799 SF ADQT: 69,180 SF SUBSTD: 819,908 SF

PROJECT:
Construct a replacement Medical Center incorporating an 86th MDG Clinic replacement at Rhine Ordnance Barracks, Germany. (CURRENT MISSION)

REQUIREMENT:
A replacement Medical Center is required to provide direct medical services to 53,000 enrolled beneficiaries and tertiary referral support for more than 245,000 beneficiaries throughout EUCOM as well as contingency casualty evacuation support for up to an additional 250,000 soldiers, airmen & sailors deployed throughout the regions comprising the Areas of Responsibility (AOR) of U.S Europenan Command (EUCOM), U.S. Central Command (CENTCOM) and U.S Africa Command (AFRICOM).

The mission requires the provision of medical, surgical, and intensive care services, as well as primary and specialty care, emergency/trauma care, dental services and medical proficiency training simulation capability. The current Medical Center provides the only DoD inpatient psychiatric, pediatric specialty care, and substance abuse rehabilitation unit in Europe.

Of equal - and in contingencies - greater importance, the mission requires that it serve as the primary medical facility for the evacuation hub for U.S. service members stationed throughout the EUCOM, CENTCOM and AFRICOM AORs. The medical facility must be strategically located in the immediate vicinity of Ramstein Air Base, to minimize travel times from the flight line to the facility and, therefore, the risks to air evacuated wounded and ill warriors. In support of the contingency mission, the existing Medical Center treats an average of 8,000 aero medical evacuation patients per year including 15% battle-related casualties.

CURRENT SITUATION:
The existing Medical Center is located approximately 13 km (8 miles) from Ramstein Air Base. Most of the route is on an unsecured civilian autobahn and public roads. The total time required to transport critically wounded troops from the airfield to treatment currently varies from 20 to 45 minutes depending on traffic and weather conditions. The existing Medical Center care areas are located in 22 cantonment "finger" buildings built between 1951 and 1953 and a critical care tower built in 1983. Additional activities, such as preventive medicine, logistics, the blood donor center, education and

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020
3. Installation and Location: Rhine Ordnance Barracks, Germany	4. Project Title: Medical Center Replacement, Increment 9	

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
87717DHA	51010	95984	200,000

CURRENT SITUATION (Continued):
training, and the dental clinic are located in buildings external to the medical center. The multiple "finger" buildings and central circulation corridor are more than 50 years old. The current layout is inefficient, covers almost 3.5 miles of corridors and hallways, and is not capable of supporting modern medical practices. The current conditions pose concerns for patient and staff safety related to lack of single patient rooms, undersized operating rooms, infection control, patient privacy, and excessive travel distances between clinical activities. The buildings have significant deficiencies related to building systems, building integrity and code compliance.

Building infrastructure (electrical, mechanical, and communication) has exceeded ranges of useful life and is costly to sustain, restore, and modernize given the spans of distribution systems along the central spine. The floors in many of the cantonment buildings are failing.

The 86th Medical Group is in multiple aging facilities, some of which are modular structures. Serious life safety criteria and code deficiencies exist in these 50+ year old structures. Combustible construction, to include bamboo plaster substrate is located throughout the main clinic structure and the clinic does not have sprinklers. The permanent facilities have numerous load bearing walls, making renovation of the space unfeasible. The limited floor to floor height prohibits normal heating, ventilating and conditioning systems (HVAC) required to meet DoD criteria. The MDG campus is located in a congested area of Ramstein AB and does not come close to meeting the force protection requirements for setbacks from parking and roadways. There is inadequate space to add to and renovate the existing structures to provide a consolidated location for medical care.

IMPACT IF NOT PROVIDED:
Healthcare for warriors and their family members will be provided in inefficient, dysfunctional cantonment facilities that have exceeded their useful life and are currently in very poor condition. Accordingly, health care for the enrolled beneficiaries, the other beneficiaries in Europe and the deployed warriors in the EUCOM, CENTCOM and AFRICOM Areas of Responsibility will continue in an inadequate environment. Life support systems will be compromised; fire and life safety standards will only be met on the margins; and patient flow will continue to be dysfunctional. Failure to invest in this project will perpetuate a host of problems that put at risk the safety of both patients and staff, including: the shored-up cantonment buildings, presenting a real and increasing possibility of a catastrophic facility-related failure.

JOINT USE CERTIFICATION:
The Director, Defense Health Agency, Facilities Division has reviewed this project for joint use potential. Joint use construction is recommended.

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Bid Build (Host Nation)
(2) Design Data:	
(a) Design Start Date:	NOV/2010
(b) Percent of Design Completed as of JAN 2020 (BY-1):	50%
(c) Design Complete:	JUN/2020
(d) Total Design Cost:	140,625
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No

1. Component DEF (DHA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**		2. Date FEB 2020
3. Installation and Location: Rhine Ordnance Barracks, Germany		4. Project Title: Medical Center Replacement, Increment 9	
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 95984	8. Project Cost ($000) 200,000

Supplemental Data (Continued):

(3) Construction Data:

(a) Construction Award:	MAR/2012
(b) Construction Start:	DEC/2013
(c) Construction Complete:	DEC/2025
(4) Facility Condition Index:	74

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

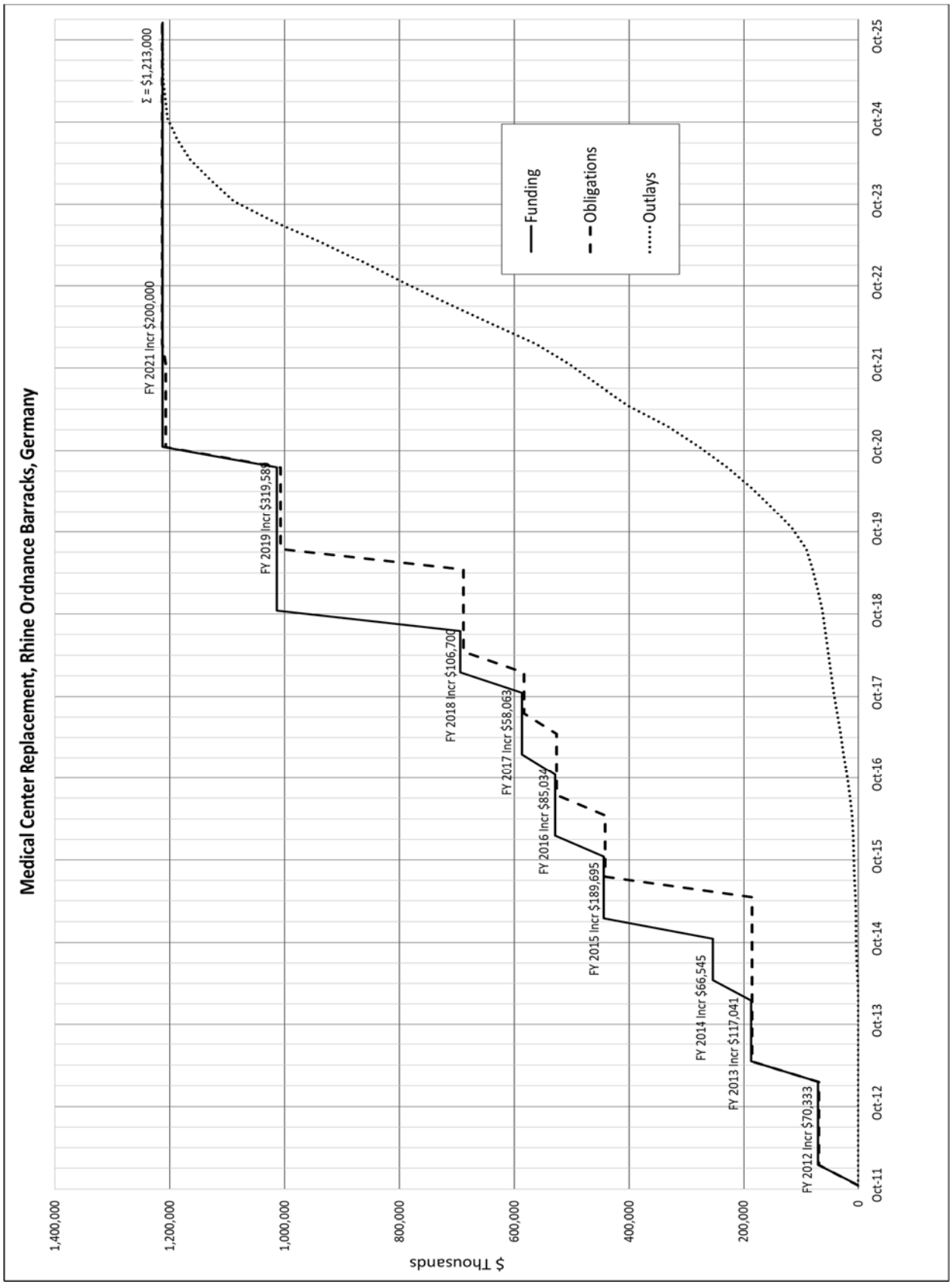
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Expense	OM	2018	2,500
Expense	OM	2019	2,500
Expense	OM	2020	42,500
Expense	OM	2021	2,500
Expense	OM	2022	27,500
Investment	OP	2022	10,000
Expense	OM	2023	42,500
Investment	OP	2023	22,229
Expense	OM	2024	20,524
Investment	OP	2024	5,000

C. FUNDING PROFILE:

Authorizations	
2013	$990,000,000
Cost Variation February 2018	$ 23,000,000
Cost Variation February 2020	$200,000,000
Total	$1,213,000,000

Appropriations	
2012	$ 70,333,000
2013	$117,041,000
2014	$ 66,545,000
2015	$189,695,000
2016	$ 85,034,000
2017	$ 58,063,000
2018	$106,700,000
2019	$319,589,000
2021	$200,000,000
Total	$1,213,000,000

Chief, Design, Construction & Activation Office:
Phone Number: 703-275-6077


Medical Center Replacement, Rhine Ordnance Barracks, Germany
$ Thousands
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
Oct-11
Oct-12
Oct-13
Oct-14
Oct-15
Oct-16
Oct-17
Oct-18
Oct-19
Oct-20
Oct-21
Oct-22
Oct-23
Oct-24
Oct-25
Funding
Obligations
Outlays
Σ = $1,213,000
FY 2021 Incr $200,000
FY 2019 Incr $319,587
FY 2018 Incr $106,700
FY 2017 Incr $58,063
FY 2016 Incr $85,034
FY 2015 Incr $189,695
FY 2014 Incr $66,545
FY 2013 Incr $117,041
FY 2012 Incr $70,333

PROJECT SPENDING PLAN
PROJECT: Medical Center Replacement, Rhine Ordnance Barracks, Germany
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-11	-	-	-	-	-	-
Jan-12	70,333	70,333	69,333	69,333	-	-
Apr-12	-	70,333	-	69,333	-	-
Jul-12	-	70,333	-	69,333	-	-
Oct-12	-	70,333	-	69,333	-	-
Jan-13	-	70,333	-	69,333	-	-
Apr-13	117,041	187,374	116,041	185,374	53	53
Jul-13	-	187,374	-	185,374	228	281
Oct-13	-	187,374	-	185,374	69	350
Jan-14	-	187,374	-	185,374	53	403
Apr-14	66,545	253,919	-	185,374	815	1,218
Jul-14	-	253,919	-	185,374	1,735	2,953
Oct-14	-	253,919	-	185,374	1,318	4,271
Jan-15	189,695	443,614	-	185,374	180	4,451
Apr-15	-	443,614	-	185,374	1,032	5,482
Jul-15	-	443,614	256,240	441,614	1,459	6,941
Oct-15	-	443,614	-	441,614	1,006	7,947
Jan-16	85,034	528,648	-	441,614	1,655	9,602
Apr-16	-	528,648	-	441,614	1,851	11,453
Jul-16	-	528,648	84,034	525,648	4,151	15,604
Oct-16	-	528,648	-	525,648	4,647	20,251
Jan-17	58,063	586,711	-	525,648	5,949	26,200
Apr-17	-	586,711	-	525,648	5,433	31,633
Jul-17	-	586,711	57,063	582,711	5,490	37,123
Oct-17	-	586,711	-	582,711	5,773	42,896
Jan-18	106,700	693,411	-	582,711	5,260	48,156
Apr-18	-	693,411	105,700	688,411	4,964	53,120
Jul-18	-	693,411	-	688,411	4,836	57,956
Oct-18	319,589	1,013,000	-	688,411	5,123	63,078
Jan-19	-	1,013,000	-	688,411	8,431	71,509
Apr-19	-	1,013,000	-	688,411	8,472	79,982
Jul-19	-	1,013,000	318,589	1,007,000	11,374	91,356
Oct-19	-	1,013,000	-	1,007,000	24,462	115,818
Jan-20	-	1,013,000	-	1,007,000	33,654	149,472
Apr-20	-	1,013,000	-	1,007,000	37,232	186,704
Jul-20	-	1,013,000	-	1,007,000	41,413	228,117
Oct-20	200,000	1,213,000	200,000	1,207,000	48,945	277,062
Jan-21	-	1,213,000	-	1,207,000	55,892	332,954
Apr-21	-	1,213,000	-	1,207,000	68,270	401,224
Jul-21	-	1,213,000	-	1,207,000	52,563	453,787
Oct-21	-	1,213,000	-	1,207,000	49,732	503,519
Jan-22	-	1,213,000	6,000	1,213,000	58,547	562,066
Apr-22	-	1,213,000	-	1,213,000	78,489	640,555
Jul-22	-	1,213,000	-	1,213,000	78,629	719,183

PROJECT SPENDING PLAN
PROJECT: Medical Center Replacement, Rhine Ordnance Barracks, Germany
All costs in thousands ($000)

Month	FUNDING		OBLIGATIONS		OUTLAYS	
Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
Oct-22	-	1,213,000	-	1,213,000	74,499	793,682
Jan-23	-	1,213,000	-	1,213,000	70,231	863,914
Apr-23	-	1,213,000	-	1,213,000	73,650	937,563
Jul-23	-	1,213,000	-	1,213,000	81,563	1,019,127
Oct-23	-	1,213,000	-	1,213,000	69,516	1,088,643
Jan-24	-	1,213,000	-	1,213,000	40,077	1,128,720
Apr-24	-	1,213,000	-	1,213,000	35,865	1,164,584
Jul-24	-	1,213,000	-	1,213,000	22,684	1,187,268
Oct-24	-	1,213,000	-	1,213,000	16,484	1,203,753
Jan-25	-	1,213,000	-	1,213,000	4,158	1,207,910
Apr-25	-	1,213,000	-	1,213,000	4,158	1,212,068
Dec-25	-	1,213,000	-	1,213,000	932	1,213,000

THIS PAGE INTENTIONALLY LEFT BLANK

Defense Information Systems Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Arizona				
Fort Huachuca				
Laboratory Building	33,728	33,728	C	27
Total	**33,728**	**33,728**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DISA)		February 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT HUACHUCA, AZ	Defense Information Systems Agency	1.11

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20170930										0
b. END FY 2022										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	33,728.00
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	33,728.00

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
31710	Laboratory Building	40,310 SF	33,728	MAR 2019	FEB 2019

9. FUTURE PROJECTS

N/A					

10. MISSION OR MAJOR FUNCTIONS

Joint Interoperability Test Command (JITC) is DoD's Joint Interoperability Certifier and only non-Service Operational Test Agency for Information Technology (IT)/National Security Systems. JITC provides risk based Test Evaluation & Certification services, tools, and environments to ensure Joint Warfighting IT capabilities are interoperable and support mission needs The command can interface all of its on-site capabilities and its network with any other testing or operational facility worldwide.

JITC services DISA, combatant commands, the Department of Defense (DOD), other federal agencies, allies, coalition partners and commercial vendors.

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 DISA	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT HUACHUCA, AZ	LABORATORY BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0303148K	31710	21DISA01	33,728

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**27,250**
LABORATORY BUILDING (CC 31710)	SF	40,310	585	(23,581)
SUSTAINABILITY AND ENERGY FEATURES	LS	-	-	(1,266)
ANTITERRORISM (AT/FP) MEASURES	LS	-	-	(1,266)
BUILDING INFORMATION SYSTEMS	LS	-	-	(1,137)
SUPPORTING FACILITIES				**2,714**
SITE PREPARATION AND IMPROVEMENTS	LS	-	-	(775)
UTILITIES (WATER/SEWER/STORMWATER)	LS	-	-	(194)
SPECIAL COSTS	LS	-	-	(1,745)
SUBTOTAL				**29,964**
CONTINGENCY (5.00%)				1,498
DESIGN COST (4%)				1,199
TOTAL CONTRACT COST				**31,463**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				1,793
ENGINEERING DURING CONSTRUCTION				472
TOTAL REQUEST				**33,728**
TOTAL REQUEST (ROUNDED)				33,700
EQUIPMENT FROM OTHER APPROPRIATIONS				9,894

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a single-story laboratory facility that will include a classified and unclassified testbed area with workbenches along with server rooms on raised flooring and administrative support and storage space.

Site preparation includes standard clearing and grubbing, cut and fill, grading, environmental protection, surrounding hardscape, which is comprised of sidewalks and pavement for emergency vehicles.

Site improvement will include storm drainage, curb and gutter, walkways and landscaping.

Associated utilities to include water distribution, fire protection distribution, sanitary sewer, national gas distribution and inter-facility cable trenches/duck banks.

Removal of the trailers will be covered under “Equipment from Other Appropriations”.

Special costs include Arizona gross receipts sales tax.

AT/FP measures will be in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Features will include facility access control, required setbacks, blast resistant exterior, and Intrusion Detection Systems (IDS).

Department of Defense principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Also Direct Digital

1. COMPONENT DISA	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEB 2020
3. INSTALLATION AND LOCATION FORT HUACHUCA, AZ		4. PROJECT TITLE: LABORATORY BUILDING	
5. PROGRAM ELEMENT 0303148K	6. CATEGORY CODE 31710	7. PROJECT NUMBER 21DISA01	8. PROJECT COST ($000) 33,728

Controls and Central Control System interface for HVAC will be installed. Low Impact Development will be included in the design and construction of this project as appropriate to include storm water management features.

Facility design will meet or exceed the useful service life specified in DoD Unified Facility Criteria.

Facility will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 176,310 SF **ADQT:** 120,000 SF **SUBSTD:** NONE

PROJECT: Construct a facility to consolidate Joint Interoperability Test Command (JTIC) operations, which are currently located in temporary/relocatable trailers into a modern facility at Fort Huachuca.

REQUIREMENT: JITC testbed facility will provide global testing capabilities, which extends to the entire spectrum of DoD, Federal government, private industry, and allies in support of commands and control, intelligence and defense reform initiative. The removal of the trailers complies with the Army criteria (IMCOM Operations Order 16-037 dated 22 Jan 2016, Relocatable Building Reduction) for the removal of all temporary trailers starting in 2018.

CURRENT SITUATION: DISA/JITC currently reside in temporary trailers, acquired over the years. The acquisition of the trailers started in the 1990's with the latest acquired in 2008 to address immediate mission needs. These trailers have exceeded their 20-year life expectancy. Due to overcrowding, health and safety issues (e.g., roof leaks, mold infestations, rodents and snakes, and two buildings without running water due to plumbing problems) the current situation has stressed the need for a more permanent and adequate solution. Personnel housed in the buildings with no running water must go to another facility to utilize restrooms.

IMPACT IF NOT PROVIDED: If this project is not funded personnel will continue to work in existing temporary buildings with limited operational capabilities which will hinder the DISA/JITC mission and not provide personnel a safe and healthy workplace. JITC taking on new mission requirements will be delayed and satisfying existing mission requirements will be impacted due to these insufficient facilities. Leasing of adequate testing facilities will be required to meet the mission.

DISA/JITC cannot fulfill its mission as the DoD developmental, conformance, interoperability, operational and validation tester of national security systems and information technology systems hardware, software and components. The opportunity to fully leverage DISA/JITC's one-of-a-kind array of Test Beds and uniquely qualified staff will be hindered.

JOINT USE CERTIFICATION: The Workforce Services and Development Executive certifies that this project has been considered for joint use potential. Unilateral construction is recommended due to mission requirements. Facility size based on JITC requirements only.

1. COMPONENT DISA	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEB 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT HUACHUCA, AZ	LABORATORY BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0303148K	31710	21DISA01	33,728

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Build
(2) Design Data:	
(a) Request for Proposal (RFP) Started:	NOV 2018
(b) Percent of Design Completed as of January 2019:	65%
(c) RFP Complete:	OCT 2020
(d) Total Design Cost ($000):	3,000
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used:	Yes
(3) Construction Data:	
(a) Contract Award:	MAR 2021
(b) Construction Start:	AUG 2021
(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)
Furniture	O&M	2021	3,425
Power Distribution Unit	O&M	2021	258
Uninterrupted Power Supply	O&M	2021	3,043
Initial Trailer Removal	O&M	2021	1,000
CCTV, Security System	O&M	2022	450
SIPR/NIPR Switching	O&M	2022	310
TV Monitors	O&M	2023	11
Remaining Trailer Removal	O&M	2023	400

Component Command: Mission Operations Division
Telephone: 571-616-4851

DD FORM 1391, JUL 1999

THIS PAGE INTENTIONALLY LEFT BLANK

Defense Logistics Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Alabama				
Anniston Army Depot				
Demilitarization Facility	18,000	18,000	C	32
California				
Beale Air Force Base				
Bulk Fuel Tank	22,800	22,800	C	37
Ohio				
Wright Patterson Air Force Base				
Hydrant Fuel System	23,500	23,500	C	41
Texas				
Fort Hood				
Fuel Facilities	32,700	32,700	C	45
Washington				
Defense Fuel Supply Point Manchester				
Bulk Fuel Storage Tanks PH1	82,000	82,000	C	50
Joint Base Lewis-McChord				
Fuel Facilities (Lewis North)	10,900	10,900	C	54
Fuel Facilities (Lewis Main)	10,900	10,900	C	57
Japan				
Defense Fuel Supply Point Tsurumi				
Fuel Wharf	49,500	49,500	C	61
Total	**250,300**	**250,300**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
ANNISTON ARMY DEPOT, ANNISTON, ALABAMA	DEFENSE LOGISTICS AGENCY	0.83

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	18,000.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	21,000.00
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	39,000.00

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
215	DEMLITARIZATION FACILITY	43,744 SF	18,000	MAR 2018	SEP 2020

9. FUTURE PROJECTS

441	GENERAL PURPOSE WAREHOUSE	75,000 SF	21,000	DEC 2020	SEP 2022

10. MISSION OR MAJOR FUNCTIONS

Defense Logistics Agency (DLA) Disposition Services supports the Warfighter and protects the public by providing worldwide reverse logistics solutions. They dispose of excess DoD personal property, foreign excess personal property (FEPP), scrap, hazardous waste, and demil required property. The DLA Disposition Services at Anniston Army Depot is a cross-dock operation that collects and separates excess federal property into useable and unusable items. Useable items are entered into a database which is accessible to other Agencies, both at the Federal and State/Local levels. In addition to collection and sales, operations at Anniston Army Depot include de-milling of military-specific items which cannot be reused.

Defered sustainment, restoration and modernization for Disposition facilities at this location is $0.

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
ANNISTON ARMY DEPOT, ANNISTON, ALABAMA	DEMILITARIZATION FACILITY

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
072976S	21512	DRMS2101	18,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES.....	-	-	-	9,081
SMALL ARMS DEMIL FACILITY (CC 21512)	SF	43,744	207.59	(9,081)
SUPPORTING FACILITIES.....	-	-	-	6,738
SITE IMPROVEMENTS	LS	-	-	(2,832)
SITE PREPARATION AND DEMOLITION	LS	-	-	(2,049)
UTILITIES AND COMMUNICATIONS	LS	-	-	(1,607)
CYBERSECURITY	LS	-	-	(250)
SUBTOTAL.....	-	-	-	15,819
CONTINGENCY (5%).....	-	-	-	791
ESTIMATED CONTRACT COST.....	-	-	-	16,610
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	947
DESIGN DURING CONSTRUCTION (DDC)	-	-	-	351
TOTAL	-	-	-	17,908
TOTAL (ROUNDED)	-	-	-	18,000
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	(600)

10. Description of Proposed Construction:
Project will replace the existing small arms demilitarization (DEMIL) facility to store and DEMIL small arms and serialized parts that have been excessed by the Department of Defense. The small arms and small arms parts DEMIL facility will contain a DEMIL shop, loading area, transportation/receiving areas, short term storage areas, work area, and personnel support spaces in full compliance with Americans with Disabilities Act (ADA) requirements.

Supporting facilities include all utilities, fire protection, storm drainage, site information systems, site lighting, walks, and paving. Site improvements include loading docks, all paving, fencing and gates. Site preparation and demolition includes removal of existing pavements and ramps, utility demolition, site grading and preparation. Measures in accordance with the Department of Defense (DoD) minimum antiterrorism standards for the building will be provided.

11. REQUIREMENT: 43,744 SQUARE FEET (SF) **ADEQUATE:** 0 SF **SUBSTANDARD:** 53,771 SF
PROJECT: Construct a Demilitarization Facility at Anniston Army Depot (ANAD). (C)

REQUIREMENT: A consolidated small arms and small parts demilitarization facility. Anniston Army Deport is the only location authorized for serialized weapons DEMIL, serialized weapon parts and weapon trainers in the continental United States (CONUS).

CURRENT SITUATION: Small arms DEMIL and parts disposal functions have similar security requirements but currently are handled in separate facilities. Weapons are received and stored at a DLA Distribution facility on the installation until a sufficient number has

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
ANNISTON ARMY DEPOT, ANNISTON, ALABAMA	DEMILITARIZATION FACILITY

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
072976S	21512	DRMS2101	18,000

accumulated to justify movement to the DLA Disposition DEMIL operation at another building approximately four miles away. Each weapons movement is inefficient in terms of personnel and time. Movement requires at least two personnel to accompany the weapons at all times for accountability and security. Due to recent network optimization initiatives that have realigned Disposition Services personnel throughout CONUS, ANAD DEMIL operations are experiencing significant workload increases.

The small arms demilitarization building is a converted warehouse originally constructed in 1942. A Facility Condition Assessment found the roofing, dock, portions of the interior walls, HVAC, and fire alarm system are all in failing condition. The existing facility violates DoD physical security regulations for small arms and operates under a security waiver. Options to address the physical security violations within the DEMIL facility were examined but are not cost effective because the building would either need complete rebuilding using reinforced concrete or add a reinforced concrete structure inside the building, which will reduce the usable building footprint and interior height to unworkably small dimensions.

IMPACT IF NOT PROVIDED: If this project is not provided, DLA will expend dwindling sustainment, restoration, and modernization dollars maintaining substandard facilities. Existing facilities will remain noncompliant structurally. Operations will be decentralized, inefficient and will have difficulty supporting the expanding DEMIL mission.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and all required physical security measures are included. All required anti-terrorism/force protection measures are included. ATFP requirements are primarily met by the construction method outlined by Army AA&E storage requirements and standoff provided by the siting of the new facility. Alternative methods to meet this requirement explored during the project development were found to be infeasible. Sustainable principals, to include life-cycle cost effective practices will be integrated into the development, design, and construction of the project. The project site is not in a 100-year floodplain.

DLA certifies that this project has been considered for joint use potential. Mission requirements, security requirements, operational considerations, and location are incompatible with use by other components.

12. Supplemental Data:	
A. Estimated Design Data:	
1. Acquisition Strategy	Design Bid Build
2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	MAR/2018
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	SEP/2020
(d) Total Design Cost ($000):	984
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	N/A

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date
DEFENSE (DLA)			FEBRUARY 2020
3. Installation and Location		4. Project Title	
ANNISTON ARMY DEPOT, ANNISTON, ALABAMA		DEMILITARIZATION FACILITY	
5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
072976S	21512	DRMS2101	18,000

3. Construction Data:	
(a) Contract Award:	MAR/2021
(b) Construction Start:	MAY/2021
(c) Construction Complete:	OCT/2023

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
STORAGE RACKING	DWCF	FY21	160
FF&E	DWCF	FY21	50
DEMIL EQUIPMENT	DWCF	FY20	800

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
BEALE AIR FORCE BASE, CALIFORNIA	DEFENSE LOGISTICS AGENCY	1.18

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	22,800.00
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	22,800.00

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
411	BULK FUEL TANK	10,000 BL	21,800	JAN 2019	SEP 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Beale AFB hosts the 9th Reconnaissance Wing which is responsible for providing national and theater command authorities with timely, reliable, high-quality, high-altitude reconnaissance products. To accomplish this mission, the wing is equipped with the nation's fleet of U-2 and RQ-4 reconnaissance aircraft and associated support equipment. The wing also maintains a high state of readiness in its expeditionary combat support forces for potential deployment in response to theater contingencies. Beale AFB hosts a squadron of eight KC-135R Stratotanker aircraft. The installation frequently supports wide-body transient aircraft, which typically include C-17s or C-5s.

Defered sustainment, restoration and modernization for fuels facilities at this location is $0

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
BEALE AIR FORCE BASE, CALIFORNIA	BULK FUEL TANK

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0701111S	411135	DESC2101	22,800

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	15,419
JET FUEL BULK STORAGE TANK(CC 411135)	BL	10,000	710.3	(7,103)
TRANSFER PUMPHOUSE (CC 125977)	GM	1,200	4,415.8	(5,299)
FUEL TANK TRUCK OFFLOAD (CC 126926)	OL	2	1,082,500	(2,165)
FUEL TANK TRUCK FILL STAND (CC 126925)	OL	1	852,000	(852)
SUPPORTING FACILITIES	-	-	-	4,661
UTILITIES AND COMMUNICATIONS	LS	-	-	(2,047)
SITE PREPARATION AND DEMOLITION	LS	-	-	(1,359)
SITE IMPROVEMENTS	LS	-	-	(1,005)
CYBERSECURITY	LS	-	-	(250)
SUBTOTAL	-	-	-	20,080
CONTINGENCY (5%)	-	-	-	1,004
ESTIMATED CONTRACT COST	-	-	-	21,084
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	1,202
DESIGN DURING CONSTRUCTION	-	-	-	446
TOTAL	-	-	-	22,732
TOTAL (ROUNDED)	-	-	-	22,800
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)	-	-	-	(367)

10. Description of Proposed Construction:

The project will construct a new 10,000-barrel jet fuel (JP-8) tank, a transfer pump house with 600 gallon per minute (GPM) pumps and filter separators, two tank truck off-loading stations, and significantly modify the existing truck fill stand. The existing transfer pump house and off-loading stations will be demolished. Demolition and construction of new facilities will be phased to allow at fueling operations to continue during the construction period.

The new transfer pump house will include pump and control rooms. The new pumps will provide a 1,200-GPM transfer flow rate. The pump station will also include filtration for off-loading receipt and for issue to the truck fill stand.

The new truck off-loading system will include two tank truck receipt connection points and will provide a nominal off-loading rate of 600-GPM per truck, for a total of 1,200-GPM simultaneously. New canopies and truck containment will also be provided.

The truck fill stand will be repaired to remove the non-standard components from the system and to integrate the controls into the new pump house system. The existing truck containment will be replaced with a new containment area.

Site utilities and communications infrastructure includes primary and secondary service and

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
BEALE AIR FORCE BASE, CALIFORNIA	BULK FUEL TANK

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0701111S	411135	DESC2101	22,800

connections, communications, cathodic protection, canopy and site lighting, transformers, automatic tank gauging systems, lightning protection, grounding, emergency power down switches and related work.

Site preparation and demolition includes demolition of existing pavements, existing utilities, fuel piping and pumps, and clearing and grading activities.

Site improvements include fencing, gates, seeding, signage, all work necessary for concrete pavement, curbs, sidewalks, and access drives, utilities, including piping and connections to support water requirements and other necessary work, storm drainage piping, trench drains, remote spill containment basins, and related utility work and canopies for unload and fill stand equipment.

11. **REQUIREMENT:** 20,000 BARRELLS (BL) **ADEQUATE:** 10,000 BL **SUBSTANDARD:** 0 BL

PROJECT: Provide fuel receipt, storage and transfer to support flying operations and allow redundancy during inspection, maintenance, and repair (C)

REQUIREMENT: Construct a new receipt area & storage tank for KC-135, NAOC and transient aircraft.

CURRENT SITUATION: The single existing JP-8 bulk fuel storage tank provides a sub-standard amount of storage and does not provide redundancy when the tank must be taken out of service for routine inspection, maintenance, or repairs.

The existing off-loading system off-loads two tank trucks at a maximum potential flow rate of 600-GPM but the users must decrease the flow rate to 450-GPM due to limitations of the existing system.

The existing pump transfer station is adequate to transfer to the existing flightline hydrant system but at more than 50 years old, is past the end of its expected service life. The pump motors routinely overheat, causing delay to fueling operations.

The fill stand is in fair condition and provides adequate capacity but the truck containment area is an older type that requires refueler trucks go over a curb to enter and exit the containment, which causes excessive wear on the vehicles. The existing fill stand has non-standard pump and filter vessel components. The pump location on the fueling island does not comply with current criteria and the filter/separator is outdated.

The status of the facility can best be described as sub-standard without redundancy for routine outages.

IMPACT IF NOT PROVIDED: This project prevents the bulk fuels area from losing all receipt, storage and transfer capability during a tank outage. Failure of the facility will severely limit the operational readiness of supported squadrons. Without an alternate means to receive and store bulk fuel, tank downtimes will significantly limit available jet fuel, require an increased reliance on just in-time truck deliveries, and potentially require the diversion of the KC-135 mission based from Beale AFB to another installation.

ADDITIONAL: This project meets all applicable DoD criteria including cyber-security

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
BEALE AIR FORCE BASE, CALIFORNIA	BULK FUEL TANK

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0701111S	411135	DESC2101	22,800

requirements. The project site is not in a 100-year floodplain. 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. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement.

12. Supplemental Data:	
A. Estimated Design Data:	
1. Acquisition Strategy:	Design Bid Build
2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	JAN/2019
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	SEP/2020
(d) Total Design Cost ($000):	$1,359
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used?	Yes
3. Construction Data:	
(a) Contract Award:	MAR/2021
(b) Construction Start:	MAY/2021
(c) Construction Complete:	MAY/2023

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
AUTOMATIC TANK GAUGING	DWCF	FY22	367

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
WRIGHT PATTERSON AIR FORCE BASE, OHIO	DEFENSE LOGISTICS AGENCY	0.95

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	23,500.00
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	23,500.00

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
121	HYDRANT FUEL SYSTEM	3,750 SF	23,500	DEC 2017	OCT 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

The 88th Air Base Wing is the host organization for Wright-Patterson Air Force Base, responsible for airfield operations, infrastructure maintenance, security, communications and overall support services to more than 100 associate units. The 445th Airlift Wing is under the Air Force Reserve Command and when mobilized, becomes part of Air Mobility Command. The Wing's mission is to attain and maintain operational readiness, provide strategic transport of personel and equipment; provide aeromedical evacuation; and recruit and train toward these goals. The wing flies the C-17 Globemaster III, the newest, most flexible cargo aircraft to enter the airlift force.

Deferred sustainment, restoration and modernization for fuels facilities at this location is $0.6M

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
WRIGHT PATTERSON AIR FORCE BASE, OHIO	HYDRANT FUEL SYSTEM

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
072976S	121124	DESC1907	23,500

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	10,809
PUMP HOUSE AND CONTROL ROOM (CC 121124)	SF	3,750	1,744.9	(6,543)
FUEL STORAGE, JET FUEL (CC 124135)	GA	420,000	8.19	(3,440)
LIQUID FUEL STAND, UNLOADING (CC 126926)	OL	1	825,174	(825)
SUPPORTING FACILITIES	-	-	-	9,990
MECHANICAL WORK	LS	-	-	(3,802)
SITE IMPROVEMENTS	LS	-	-	(1,795)
CIVIL SITE WORK	LS	-	-	(1,793)
SITE ELECTRICAL	LS	-	-	(1,471)
DEMOLITION AND SITE PREPARATION	LS	-	-	(1,131)
SUBTOTAL	-	-	-	20,799
CONTINGENCY (5%)	-	-	-	1,040
ESTIMATED CONTRACT COST	-	-	-	21,839
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)	-	-	-	1,245
DESIGN DURING CONSTRUCTION (DDC)				416
TOTAL	-	-	-	23,500
TOTAL (ROUNDED)	-	-	-	23,500
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)	-	-	-	(453)

10. Description of Proposed Construction:

Construct a new hydrant system that includes aboveground fuel storage tanks, pump house with a control room, product recovery tank, defuel tank trailer (bowser) parking and containment pad, truck unloading point with combined hydrant hose truck checkout stand, spill containment, and supporting facilities. The new fuel facility will supply aircraft direct fuel system at the airfield.

The new standard Type III pump house will include 600-GPM pumps, 1,200-GPM receipt filter separators, 600-GPM issue filter separators, and all related piping, piping supports, pumps, valves, and appurtenances. The pump house will contain a control room, pump room, mechanical room, restroom, as well as emergency shut-off switches, emergency shower and eyewash, HVAC, fire sprinklers, alarms, bridge crane, pump controls, grounding and lightning protection, communications and data infrastructure, and leak detection systems. Provide a product recovery tank in a vault and all associated piping, pumps, valves, and appurtenances.

The new fuel storage tanks are 5,000 barrel (420,000 gallon) above ground storage tanks and include all associated piping and equipment, automatic tank gauging, independent alarm system, platforms, railing, stairs, tank foundations and supports.

A new single position fuel stand unloading point includes containment areas for refueler trucks, packaged hydrant hose truck (HHT) checkout stand with a truck loading, as well as all mechanical equipment, pumps, grounding, spill containment, piping, and supports.

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
WRIGHT PATTERSON AIR FORCE BASE, OHIO	HYDRANT FUEL SYSTEM

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
072976S	121124	DESC1907	23,500

Mechanical work includes new piping between the new pump house, storage tanks, truck unloading positions, fill stands, and all other necessary locations. Piping will include all required supports, valves, and appurtenances.

Site improvements include asphalt and concrete pavement for access drives, roads, and parking areas, sidewalks, landscaping, as well as new bowser parking with containment, fencing, gates, and canopies for the product recovery tank and unload/HHT stand equipment.

Civil site work includes excavation and earthwork, water and sanitary utilities, break tank for fire sprinklers, stormwater management, including infiltration basins and drainage.

Site electrical work includes cathodic protection, site and building lighting, transformers, lightning protection, grounding, communications, emergency fuel shut off systems, control stations.

Demolition and site preparation includes removing four 50,000-GAL underground tanks, the existing pump house (1,600 SF), existing industrial hot water line, miscellaneous fuel piping and appurtenances, pavement demolition and site clearing and grading, and existing site utilities removal/relocation to accommodate the new facilities.

11. REQUIREMENT: 2400 GALLONS PER MINUTE (GPM) **ADEQUATE:** 0 GPM **SUBSTANDARD:** 2400 GPM

PROJECT: Construct Type III Hydrant System, pump house and tanks. (C)

REQUIREMENT: Replace the aging Type II (dead-end) hydrant fuel system with a Type III (looped) system to provide fuel at an adequate rate of flow. The industry standard for aircraft hydrant systems requires a flow rate of 2,400-GPM. Adequate fuel supply is required to expedite safe and efficient generation of aircraft sorties. The wing conducts mission support to Air Mobility Command, Air Force Reserve Command, Secret Service, local government, and humanitarian relief that suffer daily due to competing demands of aircraft refueling needs.

CURRENT SITUATION: The existing Type II hydrant fuel system consists of four single wall underground storage tanks (USTs) with a single hydrant issue pump and does not comply with DoD standards. The system lacks a secondary truck offload as a redundant measure to receive fuel. Fuel transfer activities from bulk to the Type II USTs, and issuance from the USTs to aircraft are limited due to the system configuration. These limitations require mission downtime during system flushing per Air Force Petroleum (AFPET) regulations.

Type II hydrant flow tests reveal lower than normal issue flow rates of 350-GPM for a single, or 200-GPM for two aircraft despite four existing pumps with 600-GPM capacity each. A study of the Type II system revealed controls are set lower to stabilize flow turbulence and reduce air in the system because of excessive backpressures while fueling large airframes. Given the limited flow rates, the average time to deliver 27,000 GAL of fuel to a single C-17 is nearly an hour-and-a-half and over two hours when simultaneously refueling two C-17s. Operation of the system is manual versus automatic, which are not normal operations for industry practice.

The existing Type II system in its current state would require significant modernization to remain in compliance with environmental regulations and DoD Standards. Federal regulations effective 15 July 2018 require either removal of existing USTs from service or construction

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
WRIGHT PATTERSON AIR FORCE BASE, OHIO	HYDRANT FUEL SYSTEM

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
072976S	121124	DESC1907	23,500

of a containment and monitoring system.

IMPACT IF NOT PROVIDED: The capabilities of the existing and aging 1950's era Type II hydrant fuel system are limited relative to a modern Type III system. Operations are less efficient since more personnel are required to operate the system and fueling rates are insufficient. Inadequate fueling rates/slow refuel times will hamper the mission of the 445th Air Wing. The system without a secondary emergency truck offload capability will remain out-of-compliance with current Unified Facility Criteria standards.

ADDITIONAL: This project meets all applicable DoD criteria including cyber-security and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. This project is the most cost-effective method to satisfy the requirement. Connections to privatized electric, water, and wastewater systems are required and the respective owners will make connections up to a defined point of demarcation.

12. Supplemental Data:	
A. Estimated Design Data:	
1. Acquisition Strategy	Design Bid Build
2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	DEC/2017
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	OCT/2020
(d) Total Design Cost ($000):	2,372
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	Yes
3. Construction Data:	
(a) Contract Award:	MAR/2021
(b) Construction Start:	MAY/2021
(c) Construction Complete:	OCT/2023

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
AUTOMATIC TANK GAUGING	DWCF	FY21	253
CONTAMINATED SOIL CLEANUP/REMOVAL	DWCF	FY21	197

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT HOOD, TEXAS	DEFENSE LOGISTICS AGENCY	0.89

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	32,700.00
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	32,700.00

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
121	FUEL FACILITIES	6 OL	32,700	JAN 2018	OCT 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

III Corps and its Subordinate Units are prepared to rapidly deploy and conduct the full range of military operations to seize, retain, and exploit the initiative, in order to defeat any adversary. The Corps is prepared to exercise mission command of Army, Joint, and Multi-National Forces, as a Corps, Joint Task force (JTF), or Combined Joint Forces Land Component Command (CJFLCC).

To meet this mission, Ft. Hood requires efficient, reliable refueling and defueling capabilities to support various size and type aircraft.
Sustainment, restoration and modernization at this location is $0.1M

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
FORT HOOD, TEXAS	FUEL FACILITIES

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12110	DESC2003	32,700

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	22,331
HYDRANT LOOP (CC 12110)	OL	6	1,055.16	(6,331)
FUEL STORAGE, JET FUEL (CC 12413)	GA	504,000	11.78	(5,935)
PUMP SHELTER AND CONTROL ROOM (CC 14165)	SF	3,750	1,080.80	(4,053)
POL PUMPS (CC 12621)	GM	2,400	1,557.50	(3,738)
FUEL TRUCK LOADING (CC 12120)	OL	2	687,000	(1,374)
TANK TRUCK UNLOADING (CC 12630)	OL	2	450,000	(900)
SUPPORTING FACILITIES	-	-	-	6,731
SITE IMPROVEMENTS	LS	-	-	(3,381)
SITE ELECTRICAL	LS	-	-	(1,570)
CIVIL SITE WORK	LS	-	-	(1,330)
DEMOLITION AND SITE PREPARATION	LS	-	-	(450)
SUBTOTAL	-	-	-	29,062
CONTINGENCY (5%)	-	-	-	1,453
ESTIMATED CONTRACT COST	-	-	-	30,515
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)	-	-	-	1,739
DESIGN DURING CONSTRUCTION (DDC)	-	-	-	442
TOTAL	-	-	-	32,696
TOTAL (ROUNDED)	-	-	-	32,700
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)				(270)

10. Description of Proposed Construction:

Construct a new Type III (looped) Hydrant System that includes aboveground fuel storage tanks, pump shelter with a control room, product recovery tank, truck loading points with combined hydrant hose truck checkout stand, truck unloading points, spill containment, and supporting facilities. The new fuel facility will supply a new aircraft direct fuel system to the parking apron at Robert Gray Army Airfield (RGAAF) at Fort Hood.

The new hydrant loop includes installing new piping to complete the issue and return loop between the new pump house and the six hydrant outlets located at the refueling apron. Piping will include all required supports, valves, and any other necessary appurtenances.

The new fuel storage tanks are 6,000 barrel (504,000 gallon) above ground storage tanks and include all associated piping and equipment, automatic tank gauging, independent alarm system, platforms, railing, stairs, tank foundations and supports.

The new standard Type III pump shelter will contain an enclosed control room, mechanical room, restroom, and open-sided pump area as well as emergency shut-off switches, emergency shower and eyewash, HVAC, fire sprinklers, alarms, bridge crane, pump controls, grounding and

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
FORT HOOD, TEXAS	FUEL FACILITIES

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12110	DESC2003	32,700

lightning protection, pig launcher and receiver stations, communications and data infrastructure, and leak detection systems. Provide an above ground double-wall product recovery tank and all associated piping, pumps, valves, and appurtenances.

The new standard Type III POL pump equipment will include 600-GPM pumps, 1,200-GPM receipt filter separators, 600-GPM issue filter separators, and all related piping, piping supports, pumps, valves, and appurtenances.

New fill stands and truck unloading points includes refueler truck load and unload containment areas, hydrant hose truck checkout stand, as well as all mechanical equipment, pumps, grounding, spill containment, piping, and supports.

Site improvements include asphalt and concrete pavement for the fueling apron, access drives, roads and parking areas, sidewalks, landscaping, fueling apron restriping, security fencing around the consolidated fuel facility with gates, and canopies at the truck unloading, truck loading, and HHT stands.

Civil site work includes excavation and earthwork as well as water and sanitary utility requirements, stormwater management, including infiltration basins and drainage.

Site electrical work includes cathodic protection, building lighting, site lighting, transformers, lightning protection, grounding, communications, emergency fuel shut off systems, control stations and an emergency generator.

Demolition and site preparation includes removal of existing hydrant pits at the fueling apron, associated piping and appurtenances, pavement removal and site clearing and grading.

11. REQUIREMENT: 6 OUTLET (OL) **ADEQUATE:** 0 OL **SUBSTANDARD:** 8 OL

PROJECT: Construct Type III hydrant system, pump shelter, and tanks. (C)

REQUIREMENT: Replace the aging and inadequate hydrant fuel system currently serving the RGAAF parking apron at Fort Hood, Texas with a modern Type III (looped) hydrant system. Adequate hydrant fuel supply is required to capably expedite and service multiple aircraft simultaneously. The industry standard hydrant systems for aircraft requires a flow rate of 2,400-GPM. Operations support power-projection aircraft such as B373, B747, B767, B777, C-5, C-17, and C-130s. The RGAAF mission provides support to multiple COCOMS, Headquarters III Corps, 1st Cavalry Division, 13th Sustainment Command, First Army Division West, 3rd Armored Cavalry Regiment, 41st Fires Brigade, local government, and humanitarian relief efforts.

CURRENT SITUATION: The existing RGAAF fuel farm includes two 12,500 barrel (BBL) aboveground vertical storage tanks, two truck offload positions, two truck fill stand positions, an 1,800-GPM capacity pump shelter, an electrical building and a hydrant loop serving 8 positions at the apron area. This facility is 30-plus years old, outdated, unsafe, and at the end of its expected lifespan. Despite multiple sustainment, repair and modernization (SRM) projects, the fueling facility continues to decline in reliability. This has resulted in numerous work stoppages in fuel servicing and environmental releases from the current system.

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
FORT HOOD, TEXAS	FUEL FACILITIES

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12110	DESC2003	32,700

Due to recently confirmed fuel contamination in the hydrant loop piping, the hydrant fueling capability of this system has been suspended indefinitely. The existing hydrant loop configuration is not suitable for cleaning or inspection pigging operations, so without complete loop replacement the existing system cannot provide the critical hydrant fueling and defueling capabilities needed for the airfield.

The existing hydrant system is an environmental liability with two large spills occurring at this facility within the last seven years. The fuel spills have damaged the environment and cost millions of dollars in both lost fuel and clean-up costs. Operation of the existing system is difficult, as no line-of-sight exists between the hot points and the terminal, which can lead to overfilling. The inability to directly view fueling operations was partially responsible for the past fuel releases. The proposed new location and by modernizing to a Type III will address these issues thereby minimizing the potential of future release.

IMPACT IF NOT PROVIDED: The capabilities of the existing and aging 1950’s era hydrant fuel system are limited relative to a modern Type III system. As the current hydrant loop shutdown demonstrates, any work stoppage impedes COCOM missions as well as the power projection platform mission of the airfield. A hydrant loop closure forces RGAAF and the III Corps to rely 100% on tanker trucks to refuel aircraft. This stopgap measure of aircraft refueling results in significant mission delays. With minimal amounts of fuel transferred to aircraft by truck, flight missions experience significant delays as missions are required to have an additional refueling stop at another location, costing both time and mission funding. The existing system in its current state would require significant modernization to remain in compliance with DoD and environmental standards.

ADDITIONAL: This project meets all applicable DoD criteria including cyber-security requirements and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement. Utility connections are required to a privatized electric distribution, water, and wastewater systems. DLA intends to have the respective Utilities Privatization System Owners make and own the necessary connections up to the facility service disconnect or other defined point of demarcation.

12. Supplemental Data:	
A. Estimated Design Data:	
4. Acquisition Strategy:	Design Bid Build
5. Design Data	
(a) Design or Request for Proposal (RFP) Started:	JAN/2018
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	OCT/2020
(d) Total Design Cost ($000):	711
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	Yes

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
FORT HOOD, TEXAS	FUEL FACILITIES

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12110	DESC2003	32,700

6. Construction Data:	
(a) Contract Award:	MAR/2021
(b) Construction Start:	MAY/2021
(c) Construction Complete:	MAR/2023

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
AUTOMATIC TANK GAUGING	DWCF	FY21	190
CONTAMINATED SOIL CLEANUP/REMOVAL	DWCF	FY21	80

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON	DEFENSE LOGISTICS AGENCY	1.11

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	82,000.00
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	82,000.00

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
411	BULK FUEL STORAGE TANKS PH1	250,000 BL	82,000	MAR 2018	JUN 2019

9. FUTURE PROJECTS

411	BULK FUEL STORAGE TANKS PH2	250,000 BL	64,000	OCT 2021	OCT 2022
411	BULK FUEL STORAGE TANKS PH3	250,000 BL	72,000	OCT 2023	OCT 2024

10. MISSION OR MAJOR FUNCTIONS

Fleet Logistics Center Puget Sound (FLCPS) is one of the largest fuel storage and dispensing facilities in the Pacific Northwest. The primary mission of the facility is the bulk storage and distribution of aviation fuels and marine diesel in the Pacific theater.
Deferred sustainment, restoration and modernization for fuels facilities at this location is $13.5M

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON	BULK FUEL STORAGE TANKS PH1

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	41121	DESC2002	82,000

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	38,533
BULK STORAGE TANK (CC 41121))	BL	250,000	111.94	(27,985)
PIPELINE (CC 12521)	LF	6,500	1,622.8	(10,548)
SUPPORTING FACILITIES.....	-	-	-	33,818
SITE PREPARATION	LS	-	-	(13,217)
DEMOLITION AND SITE CLEARING	LS	-	-	(10,821)
SITE UTILITIES	LS	-	-	(5,740)
PAVING AND SITE IMPROVEMENTS	LS	-	-	(3,790)
CYBERSECURITY	LS	-	-	(250)
SUBTOTAL.....	-	-	-	72,351
CONTINGENCY (5%).....	-	-	-	3,618
ESTIMATED CONTRACT COST.....	-	-	-	75,969
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	4,330
DESIGN DURING CONSTRUCTION (DDC).....	-	-	-	1,606
TOTAL		-	-	81,905
TOTAL (ROUNDED)		-	-	82,000
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..		-	-	750

10. Description of Proposed Construction:
This phase will construct two above ground multi-product capable fuel storage tanks, secondary containment with remote impoundment, and pipelines to connect to the marine diesel fuel (F-76) and naval jet fuel (JP-5) piping system. Each tank will have a capacity of 125,000 barrels of fuel and will include above ground manifold piping to allow storage of either JP-5 or F-76 fuel types with connection to the existing pump house.

Supporting facilities in this phase include site preparation, fire suppression utility upgrades, electrical utilities upgrades, and the closure, decommissioning and demolition of five cut and cover tanks. Site preparation includes extensive site work required to construct the tanks and the containment. Per DoD standards, secondary containment around the new aboveground storage tanks (AST) including the remote impoundment must be sized for complete and catastrophic failure of the largest tank.

11. REQUIREMENT: 850,000 BARRELS (BL) **ADEQUATE:** 450,000 BL **SUBSTANDARD:** 0 BL

PROJECT: Construct above ground fuel storage tanks, compliant with environmental laws to replace aged, existing underground fuel storage tanks. (C)

REQUIREMENT: This project is the first phase of a multi-phase project constructing a total of six new 125,000-barrel ASTs and associated site improvements to replace old concrete cut and cover underground storage tanks at Fleet Logistics Center Puget Sound (FLCPS). Across the

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date
DEFENSE (DLA)			FEBRUARY 2020
3. Installation and Location		4. Project Title	
DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON		BULK FUEL STORAGE TANKS PH1	
5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	41121	DESC2002	82,000

planned phases, the project will demolish a total of eight existing cut and cover bulk tanks. This project will keep the FLCPS fuel facility operational throughout the project construction and will extend the service life period by over 50 years.

CURRENT SITUATION: The existing Fleet Logistics Center Puget Sound (FLCPS) facility consists of single-wall cut and cover built in the 1940s to 1950s. Fuel transfer and distribution occurs over 11 miles of either underground tunnel or aboveground piping. Each tunnel contains tank issue, receipt, and sump piping.

Given the current regulatory criteria for underground storage tanks (USTs), the vintage design of single-walled cut-and-cover tanks is causing increased environmental scrutiny from federal, state, and regional regulatory agencies. Prior to 2015, the bulk field constructed USTs were deferred from compliance with 40 CFR 280, the Federal UST Regulations. Deferred status was removed in 2015, and as of 2018, the facility must comply with new Environmental Protection Agency (EPA) UST requirements. To comply with the new UST Regulations, FLCPS must conduct annual tank tightness testing on all the tanks. Testing each tank takes approximately one week to complete, and the tanks must be static during the tightness tests, causing operational disruption. If a tank fails the test, additional testing and inspection is required, further impacting operations. For six tanks, the current tank cleaning, inspecting, and repairing process takes a four-year cycle to complete. Historically, the Navy employs a ten-year periodicity for concrete tank inspection and repairs, driving individual tank out of service rates to 30 percent and the facility full mission capable rate to less than 75 percent. Mandatory repairs include drain line repairs, sleeving the receipt and issue lines, tank coating repairs, etc. Currently, the drain line represents an unprotected single point of failure.

The existing fire protection system supporting the project site does not meet current UFC and fire protection code (NFPA) requirements. The 6-inch diameter water mains are over 70 years old and are beyond their useful service life. The water mains are undersized per NFPA criteria. The existing pump system does not provide an automatic fire water supply as required by codes and pressures are not sufficient to meet current UFC requirements.

Six of the existing cut and cover tanks and portions of the tunnel piping system are located within a recently identified active fault zone. Rupture of either tanks or piping increases the risk of product loss to the surrounding environment.

IMPACT IF NOT PROVIDED: If this facility is not constructed, the facility is at risk of not meeting their usable fuel storage capacity and economic resupply volume requirements for both JP-5 and F-76. In addition, environmental compliance requirements will increase tank out-of-service times if a tank fails its annual tightness testing. Maintenance costs will continue to increase. Current cost projections are $3.55 million per tank over the next 20 years.

ADDITIONAL: Design will comply with Unified Facilities Criteria Petroleum Fuel Facilities design. Sustainable principles include life cycle cost effective practices will be integrated into design and construction, in accordance with applicable laws and Executive Orders. This project will meet all applicable DoD criteria to include cyber-security. Mission requirements, operational considerations, and location are incompatible with use by other components. This site is not located in a floodplain.

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
DEFENSE FUEL SUPPLY POINT, MANCHESTER, WASHINGTON	BULK FUEL STORAGE TANKS PH1

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	41121	DESC2002	82,000

12. Supplemental Data:	
A. Estimated Design Data:	
1. Acquisition Strategy	Design Bid Build
2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	MAR/2018
(b) Percent of Design Completed as of Jan 2020 (BY-1):	100%
(c) Design or RFP Complete:	AUG/2019
(d) Total Design Cost ($000):	8,000
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	No
3. Construction Data:	
(a) Contract Award:	MAR/2021
(b) Construction Start:	JUN/2021
(c) Construction Complete:	JUL/2024

B. Equipment associated with this project that will be provided from other appropriations: N/A

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
AUTOMATIC TANK GAUGING	DWCF	FY23	750

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
JOINT BASE LEWIS-MCCORD, WASHINGTON	DEFENSE LOGISTICS AGENCY	1.10

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	21,800.00
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	21,800.00

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
124	FUEL FACILITIES (LEWIS NORTH)	32,000 GA	10,900	JAN 2019	SEP 2020
124	FUEL FACILITIES (LEWIS MAIN)	36,000 GA	10,900	JAN 2019	SEP 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Joint Base Lewis-McChord (JBLM) is the Defense Department's premiere military installation on the West Coast. JBLM provides world-class installation support to more than 40,000 active, Guard and Reserve Service members, and about 15,000 civilian workers. The primary mission of JBLM is to operate a state-of-the-art projection platform for war fighters by providing them with superior training support and infrastructure, to train, and maintain fully capable mobilization and deployment operations for the Army, Navy, Air Force, and Marines.

Deferred sustainment, restoration, and modernization for fuel facilities at this location is $2.7M.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
JOINT BASE LEWIS MCCORD, WASHINGTON	FUEL FACILITIES (LEWIS NORTH)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12481	DESC2104A	10,900

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	2,405
VEHICLE FUEL STORAGE, KEROSENE (CC12481)	GA	32,000	21.3	(683)
LIQUID FUEL, UNLOADING FACILITY (CC12630)	OL	3	226,667	(680)
VEHICLE FUELING FACILITY, KEROSENE (CC12322)	OL	16	30,250	(484)
VEHICLE FUEL STORAGE, MOGAS (CC12451)	GA	12,000	21.3	(256)
FUEL OPS BUILDING (CC14165)	SF	1,100	164.5	(181)
VEHICLE FUELING FACILITY, MOGAS (CC12311)	OL	4	30,250	(121)
SUPPORTING FACILITIES	-	-	-	7,189
SITE IMPROVEMENTS	LS	-	-	(3,381)
CIVIL SITE WORK	LS	-	-	(2,890)
SITE ELECTRICAL WORK	LS	-	-	(559)
DEMOLITION AND SITE PREPARATION	LS	-	-	(359)
ESTIMATED CONTRACT COST	-	-	-	9,594
CONTINGENCY (5%)	-	-	-	480
SUBTOTAL	-	-	-	10,074
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)	-	-	-	574
DESIGN DURING CONSTRUCTION (DDC)	-	-	-	213
TOTAL	-	-	-	10,861
TOTAL (ROUNDED)	-	-	-	10,900
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)				(53)

10. Description of Proposed Construction:

New facilities will include a controls building, fuel gauging and monitoring systems, fuel storage tanks, and fueling receipt and dispensing equipment. Supporting facilities include utilities, electric service, paving, fuel spill containment, storm drainage, on-site storm runoff infiltration facilities, and site preparation.

The new fuel storage tanks will contain kerosene (e.g., aviation turbine fuel (F24), diesel) and mogas fuel types, with one type per tank. They will be horizontal aboveground tanks and will include all associated piping, pumps, vents, hatches, automatic tank gauging, independent alarm systems, platforms, railings, ladders, foundations, supports, and all other necessary incidentals.

The new truck unloading points will be constructed to serve each fuel storage tank per its type of fuel. This work also includes refueler truck unload containment areas as well as all

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
JOINT BASE LEWIS MCCORD, WASHINGTON	FUEL FACILITIES (LEWIS NORTH)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12481	DESC2104A	10,900

mechanical equipment, pumps, grounding, piping, and all other necessary incidentals.

The new fuel dispensing equipment will be constructed on concrete islands and includes pumps, hoses, piping, valves, leak detection, signage, and all other necessary incidentals. Dispensers will consist of either normal flow or high flow units.

The new operations building will serve to house electrical panels and controls and will include all necessary HVAC, plumbing, fire protection, electrical, communications and data infrastructure, and all other necessary incidentals.

Site improvements include asphalt and concrete pavement for access drives, traffic areas, parking areas, and all other necessary incidentals. Fencing will be installed around the facility for security, including associated gates. Canopies will be provided for the truck unload as well as the fuel dispensing areas.

Civil site work includes any necessary excavation, earthwork, and landscaping as well as all water utility requirements along with associated appurtenances and all other necessary incidentals. Storm water management will also be provided, including remote containment basins, trench drains, piping, and storm water infiltration systems.

Site electrical work includes the provision of cathodic protection, all electrical utility requirements, building and site lighting, transformers, emergency generator, lightning protection, grounding, communication lines, emergency fuel shutoff systems, control stations, and all other necessary incidentals.

Demolition and site preparation includes the removal of all incidental existing pavement, unsuitable soils, and trees.

11. REQUIREMENT: 32,000 GALLONS (GA) **ADEQUATE:** 0 GA **SUBSTANDARD:** 0 GA

PROJECT: Construct new fuel facilities on Joint Base Lewis-McChord (JBLM), Lewis North to support installation and transient tactical and non-tactical vehicles, including fuel storage, dispensers, and operations building. (C)

REQUIREMENT: This project is required to provide fuel to DoD/Army equipment, supporting Brigade Combat Teams and Aviation Brigade. The new facilities will replace existing facilities that are undersized, noncompliant and pose a health, safety, and environmental risk to the installation and users. JBLM is a training and mobilization center for all services and is the only Army power-projection base west of the Rocky Mountains. I Corps and Special Operations units on post require efficient refueling operations that are not currently available. US NORTHCOM expects JBLM to effectively deliver strategic support from a “Defense Support of Civil Authorities” perspective that cannot be met with the current facilities on JBLM.

CURRENT SITUATION: Land vehicle capacity of the current infrastructure can service only 15% of the six home brigades and special operations units that call JBLM home. Unified Facilities Criteria (UFC) requires a dispenser outlet for every 100 vehicles. The existing undersized facilities are a safety hazard as tactical vehicles block traffic by queuing on adjacent streets while waiting for service. Some units have resorted to refueling in their motor pools, which increases environmental risk for Commanders since those facilities are not designed to support those types of operations (e.g., necessary level of spill control). In

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
JOINT BASE LEWIS MCCORD, WASHINGTON	FUEL FACILITIES (LEWIS NORTH)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12481	DESC2104A	10,900

addition, non-tactical equipment must travel extended distances to acquire fuel since only one service station exists on Joint Base Lewis-McChord (JBLM).

IMPACT IF NOT PROVIDED: Combat vehicles will continue to struggle to meet timely mission requirements. Additional travel required for refueling will increase wear and tear on equipment and roads, increase safety risk, as well as continue to waste time and fuel. Units will continue to risk refueling in motor pools not designed for a refueling mission. Safety concerns with backed up vehicles staging on roadways outside the current facilities will continue, and new facilities are the only way to mitigate this risk. I Corps and Special Operations units would fail to receive efficient refueling operations on JBLM.

ADDITIONAL: This project meets all applicable DoD criteria including cyber-security and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement.

12. Supplemental Data:	
A. Estimated Design Data:	
1. Acquisition Strategy	Design Bid Build
2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	JAN/2019
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	NOV/2020
(d) Total Design Cost ($000):	750
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used?	Yes
3. Construction Data:	
(a) Contract Award:	MAY/2021
(b) Construction Start:	JUL/2021
(c) Construction Complete:	JUL/2023

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
AUTOMATED TANK GAUGING	DWCF	FY21	53

Point of Contact is DLA Civil Engineer at 571-767-0631

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
JOINT BASE LEWIS-MCCHORD, WASHINGTON	FUEL FACILITIES (LEWIS MAIN)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12481	DESC2104B	10,900

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	2,702
VEHICLE FUEL STORAGE ABV, KEROSENE (CC12481) ...	GA	36,000	23.2	(838)
LIQUID FUEL, UNLOADING FACILITY (CC12630)	OL	3	232,667	(698)
VEHICLE FUELING FACILITY, KEROSENE (CC12322) ...	OL	20	29,400	(588)
VEHICLE FUEL STORAGE ABV, MOGAS (CC12451)	GA	12,000	23.3	(279)
FUEL OPS BUILDING (CC14165)	SF	1,100	164.5	(181)
VEHICLE FUELING FACILITY, MOGAS (CC12311)	OL	4	29,500	(118)
SUPPORTING FACILITIES	-	-	-	6,900
SITE IMPROVEMENTS	LS	-	-	(3,561)
CIVIL SITE WORK	LS	-	-	(2,583)
SITE ELECTRICAL WORK	LS	-	-	(469)
DEMOLITION AND SITE PREPARATION	LS	-	-	(287)
ESTIMATED CONTRACT COST	-	-	-	9,602
CONTINGENCY (5%)	-	-	-	480
SUBTOTAL	-	-	-	10,082
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (5.7%)..	-	-	-	575
DESIGN DURING CONSTRUCTION (DDC)	-	-	-	213
TOTAL	-	-	-	10,870
TOTAL (ROUNDED)	-	-	-	10,900
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..				(62)

10. Description of Proposed Construction:

New facilities will include a controls building, fuel gauging and monitoring systems, fuel storage tanks, and fueling receipt and dispensing equipment. Supporting facilities include utilities, electric service, paving, fuel spill containment, storm drainage, on-site storm runoff infiltration facilities, and site preparation.

The new fuel storage tanks will contain kerosene (e.g., aviation turbine fuel (F24), diesel) and mogas fuel types, with one type per tank. They will be horizontal aboveground tanks and will include all associated piping, pumps, vents, hatches, automatic tank gauging, independent alarm systems, platforms, railings, ladders, foundations, supports, and all other necessary incidentals.

The new truck unloading points will be constructed to serve each fuel storage tank per its type of fuel. This work also includes refueler truck unload containment areas as well as all mechanical equipment, pumps, grounding, piping, and all other necessary incidentals.

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
JOINT BASE LEWIS-MCCHORD, WASHINGTON	FUEL FACILITIES (LEWIS MAIN)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12481	DESC2104B	10,900

The new fuel dispensing equipment will be constructed on concrete islands and will include pumps, hoses, piping, valves, leak detection, signage, and all other necessary incidentals. Dispensers will consist of either normal flow or high flow units.

The new operations building will serve to house electrical panels and controls and will include all necessary HVAC, plumbing, fire protection, electrical, communications and data infrastructure, and all other necessary incidentals.

Site improvements include asphalt and concrete pavement for access drives, traffic areas, parking areas, and all other necessary incidentals. Fencing will be installed around the facility for security, including associated gates. Canopies will be provided for the truck unload area as well as the fuel dispensing areas.

Civil site work includes any necessary excavation, earthwork, and landscaping as well as all water utility requirements along with associated appurtenances and all other necessary incidentals. Storm water management will also be provided, including remote containment basins, trench drains, piping, and storm water infiltration systems.

Site electrical work includes the provision of cathodic protection, all electrical utility requirements, building and site lighting, transformers, emergency generator, lightning protection, grounding, communication lines, emergency fuel shutoff systems, control stations, and all other necessary incidentals.

Demolition and site preparation includes the removal of all incidental existing pavement, unsuitable soils, and trees.

11. REQUIREMENT: 36,000 GALLONS (GA) **ADEQUATE:** 0 GA **SUBSTANDARD:** 0 GA

PROJECT: Construct new fuel facilities on Joint Base Lewis-McChord (JBLM), Lewis Main to support installation and transient tactical and non-tactical vehicles, including new fuel storage, dispensers, and operations building. (C)

REQUIREMENT: This project is required to provide fuel to DoD/Army equipment, supporting Brigade Combat Teams and Aviation Brigade. The new facilities will replace existing facilities that are undersized, noncompliant and pose a health, safety, and environmental risk to the installation and users. Joint Base Lewis-McChord (JBLM) is a training and mobilization center for all services and is the only Army power-projection base west of the Rocky Mountains. I Corps and Special Operations units on post require efficient refueling operations that are not currently available. US NORTHCOM expects JBLM to effectively deliver strategic support from a “Defense Support of Civil Authorities” perspective that cannot be met with the current facilities on JBLM.

CURRENT SITUATION: Land vehicle capacity of the current infrastructure can service only 15% of the six home brigades and special operations units that call JBLM home. Unified Facilities Criteria (UFC) 3-460-01 requires a dispenser outlet for every 100 vehicles. The existing undersized facilities are a safety hazard as tactical vehicles block traffic by queuing on adjacent streets while waiting for service. In addition, non-tactical equipment must travel extended distances to acquire fuel since only one service station exists on JBLM. Some units have resorted to refueling in their motor pools, which increases environmental risk for Commanders since those facilities are not designed to support those types of operations

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
JOINT BASE LEWIS-MCCHORD, WASHINGTON	FUEL FACILITIES (LEWIS MAIN)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	12481	DESC2104B	10,900

(e.g., necessary level of spill control). In addition, non-tactical equipment must travel extended distances to acquire fuel since only one service station exists on Joint Base Lewis-McChord (JBLM).

IMPACT IF NOT PROVIDED: Combat vehicles will continue to struggle to meet timely mission requirements. Additional travel required for refueling will increase wear and tear on equipment and roads, increase safety risk, as will continue to waste time and fuel. Units will continue to risk refueling in motor pools not designed for a refueling mission. Safety concerns with backed up vehicles staging on roadways outside the current facilities will continue, and new facilities are the only way to mitigate this risk. I Corps and Special Operations units would fail to receive efficient refueling operations on JBLM.

ADDITIONAL: This project meets all applicable DoD criteria including cyber-security and anti-terrorism force protection requirements. The project site is not in a 100-year floodplain. This project has been coordinated with the installation physical security plan, and all physical security measures are included. An economic analysis has been prepared and utilized in evaluating this project. This project is the most cost-effective method to satisfy the requirement.

12. Supplemental Data:	
A. Estimated Design Data:	
7. Acquisition Strategy:	Design Bid Build
8. Design Data	
(a) Design or Request for Proposal (RFP) Started:	JAN/2019
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	NOV/2020
(d) Total Design Cost ($000):	750
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used?	Yes
9. Construction Data:	
(a) Contract Award:	MAY/2021
(b) Construction Start:	JUL/2021
(c) Construction Complete:	JUL/2023

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
AUTOMATIC TANK GAUGING	DWCF	FY21	62

Point of Contact is DLA Civil Engineer at 571-767-0631

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEFENSE (DLA)		FEBRUARY 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN	DEFENSE LOGISTICS AGENCY	1.93

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*	
a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	49,500.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	49,500.00

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
152	FUEL WHARF	340 SY	49,500	NOV 2017	OCT 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Navy Supply Systems Command (NAVSUP) Fleet Logistics Center (FLC) operates the 46-acre Tsurumi Fuel Terminal located in Anzen-cho, Tsurumi-ku, Yokohama City. Tsurumi Fuel Terminal is comprised of two separate operating units, Operating Unit 1 (OU-1) and Operating Unit 2 (OU-2). The terminal primarily receives, stores, and issues direct mission-related fuel (JP-8) to designated customers throughout Japan. The current mission of DFSP Tsurumi is to receive and deliver JP-8 fuel to Yokota Air Base.

Deferred sustainment, restoration, and modernization for fuel facilities at this location is $0.

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN	FUEL WHARF

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	15240	DESC1904	49,500

9. COST ESTIMATES

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES	-	-	-	24,965
FUELING WHARF (CC 15240))	SY	340	50.02	(17,007)
SEAWALL (CC 15430)	LF	750	10.61	(7,958)
SUPPORTING FACILITIES.....	-	-	-	19,038
MECHANICAL UTILITIES	LS	-	-	(7,102)
DREDGING AND DISPOSAL	LS	-	-	(5,676)
SITE ELECTRICAL UTILITIES	LS	-	-	(3,139)
SITE IMPROVEMENTS AND PAVEMENTS	LS	-	-	(1,784)
DEMOLITION	LS	-	-	(1,338)
SUBTOTAL.....	-	-	-	44,003
CONTINGENCY (5%).....	-	-	-	2,200
ESTIMATED CONTRACT COST.....	-	-	-	46,203
SUPERVISION, INSPECTION & OVERHEAD (SIOH) (6.5%)..	-	-	-	3,003
DESIGN DURING CONSTRUCTION (DDC).....	-	-	-	229
TOTAL	-	-	-	49,435
TOTAL (ROUNDED)	-	-	-	49,500
REQUIREMENTS FROM OTHER APPROPRIATIONS (NON-ADD)..	-	-	-	(130)
CURRENCY EXCHANGE RATE: ¥ 107.9114/dollar				

10. **Description of Proposed Construction:**

The fuel-handling wharf will be a reinforced concrete platform supported on steel pipe piles including fuel piping, two bollards, two fuel-loading arms and separate pile supported mooring dolphin with steel catwalk and bollard. Rubber arch-type fender systems will be provided with the new fuel handling wharf and mooring dolphin. The wharf includes new stainless steel fuel piping, pipe supports, valves and fittings, two positive displacement strippng pumps, three stationary motorized spill containment boom reels, and four tide risers. The fuel transfer piping will tie into a new static dissipater additive injection system storage tank using existing injectors. The wharf deck elevation will be located above the 100-year floodplain.

The seawall work includes a steel sheet pile toe wall, concrete infill along the existing seawall, cathodic protection, and repairs to the existing seawall.

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN	FUEL WHARF

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	15240	DESC1904	49,500

Mechanical utilities include replacing the existing wharf fire protection system, fire water/foam and domestic water systems including salt water/foam solution lines, new hydrants, standpipes, stainless steel piping, fittings, control valves, and supports; high hazard dry chemical fire extinguishers on each side of the loading/unloading arms. The new fire protection system will be installed in covered trenches. New foam/water nozzles will be provided complete with remote control using CCTV's from the security building. Upgrades to the domestic water supply system at the pier include a new water lateral, backflow preventer, water meter, and emergency eyewash and shower. Drainage from the fueling wharf and pipe trench will be directed to a sump and pumped to an existing oil-water separator.

Dredging and disposal in accordance with GOJ regulations is included. Dredging of the existing channel will be to the navigational draft of the T-1 class tanker plus 1.2 meters (4 feet).

Electrical utilities include a new 500 kVA cubicle-type transformer, 416V/240V, 3-phase, 4-wire underground feeder to a new electrical equipment rack, new power and controls for floodlights, fuel stripper pumps, additive injection pump, oil containment boom reels, eyewash/shower heater, eyewash/shower alarm system, fire monitor system, sump pump for fuel/fire line trench and other miscellaneous electrical loads at the wharf; new floodlight and CCTV poles and LED floodlights, new Fire Monitor System controls, CCTV monitoring and related work.

Site Improvements and pavements include storm drainage, new on-shore mooring bollards, steel platform and access walks, containment curbs, concrete pads, concrete trenches for fuel piping and fire protection piping, pavement around fuel operations area, concrete ramp and related work.

Demolition includes existing Wharves 111 and 117, existing fire hose steel support frame, removal of existing fuel piping, fire protection piping system, transformer, floodlights and poles, electric manholes, concrete encased ductline, low voltage circuits, boom reels and concrete pads.

11. REQUIREMENT: 340 SQUARE YARDS (SY) **ADEQUATE:** 0 SY **SUBSTANDARD:** 0 SY

PROJECT: This project will modernize the existing berthing facilities by constructing a reinforced concrete fuel-handling wharf, mooring dolphin, and supporting facilities to receive, store and issue fuel. (C)

REQUIREMENT: Navy Supply Systems Command (NAVSUP) Fleet Logistics Center (FLC) operates the 46-acre Defense Fuel Supply Point (DFSP) Tsurumi Fuel Terminal. The DFSP mission is to receive, store, and issue direct mission-related fuel (JP-8) to designated customers throughout Japan. By increasing the capability of the Defense Fuel Supply Point (DFSP) to handle larger T-1 class tankers that have a greater cargo capacity, fuel receipt directly from the refinery will be possible. This will increase the efficiency at both the Tsurumi and

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
DEFENSE (DLA)		FEBRUARY 2020

3. Installation and Location	4. Project Title
DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN	FUEL WHARF

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
0702976S	15240	DESC1904	49,500

Hakozaki DFSP's and provide a much needed second refinery delivery point for central and northern Japan.

CURRENT SITUATION: Tsurumi Fuel Terminal is comprised of two separate operating units, Operating Unit 1 (OU-1) and Operating Unit 2 (OU-2). OU-1 and OU-2 are approximately 0.8 kilometers (0.5 miles) apart, and connected by buried fuel pipelines. Fuel is delivered to OU-1 using coastal barges from DFSP Hakozaki because DFSP Tsurumi lacks the ability to handle deeper draft tankers with larger cargo capacities. Vessels are limited to a cargo capacity up to 12.5 MBBL and a draft of 4.8 meters (15.9 feet) mainly because the existing water depth along the berthing face of the wharf is insufficient to accommodate a fully loaded T-1 class tanker. In addition, there are only a small number of coastal tankers or barges available for receiving and issuing fuel at Tsurumi OU-1. The usefulness of the DFSP Tsurumi facilities is limited and fuel unloading operations are inefficient due to use of smaller barges. The fuel must be loaded to the barges at an intermediate DFSP at Hakozaki. The current barge fuel transfer operation is dangerous, as hoses must extend across the barge and expose hose joints to tidal fluctuations.

Currently, fueling wharf 111 serves as an unloading point for small Japanese coastal tankers and is the only available berthing facility at Tsurumi OU-1. Fueling wharf 117 is in poor condition, with advanced deterioration with severe concrete cracking and corroded reinforcing steel bars. The stability of the structural members is insufficient against berthing reaction forces from a small coastal tanker or barge and subsequently has been unused for several years.

IMPACT IF NOT PROVIDED: If the project is not provided, inefficient fueling operations will continue at DFSP Terminals Tsurumi and Hakozaki. Fuel receipt directly from the refinery will not be possible and fuel will continue being double-handled. Major fuel spills and environmental damage from hose joint failures will remain. If Wharf 111 fails, Tsurumi OU-1 will close, severely jeopardizing the mission and ability to provide fuel to Yokota Air Force Base and other fleet and shore units.

ADDITIONAL: New construction is the only viable alternative to support the capability to accept a T-1 class tanker and eliminate a single point of failure. The upgrades will enable Tsurumi OU-1 to take direct refinery shipments, bypass DFSP Hakozaki, and eliminate double handling by re-loading to a small coastal tanker or barge. The upgrades will enhance overall fuel operations for DFSP Tsurumi and DFSP Hakozaki.

ADDITIONAL: Sustainable engineering principles will be integrated into the design, development, and construction of the project.

12. Supplemental Data:	
A. Estimated Design Data:	
1. Acquisition Strategy	Design Bid Build
2. Design Data	
(a) Design or Request for Proposal (RFP) Started:	NOV/2017
(b) Percent of Design Completed as of Jan 2020 (BY-1):	35%
(c) Design or RFP Complete:	OCT/2020
(d) Total Design Cost ($000):	2,500

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date
DEFENSE (DLA)			FEBRUARY 2020

3. Installation and Location	4. Project Title		
DEEFENSE FUEL SUPPLY POINT, TSURUMI, JAPAN	FUEL WHARF		
5. Program Element	**6. Category Code**	**7. Project Number**	**8. Project Cost ($000)**
0702976S	15240	DESC1904	49,500

(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	No

3. Construction Data:	
(a) Contract Award:	SEP/2021
(b) Construction Start:	OCT/2021
(c) Construction Complete:	JAN/2024

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

PURPOSE	APPROPRIATION	FISCAL YEAR REQUIRED	AMOUNT ($000)
OIL SPILL BOOM	DWCF	FY23	50
CCTV	DWCF	FY23	80

Point of Contact is DLA Civil Engineer at 571-767-0631

DOD Education Activity
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Kentucky				
Fort Knox				
Van Voorhis Elementary School	69,310	69,310	C	67
Japan				
Yokosuka				
Kinnick High School Increment 2	-	30,000	C	71
Total	**69,310**	**99,310**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DoDEA)		February 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
US ARMY GARRISON FORT KNOX, KENTUCKY	DoDEA	0.97

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 30 SEP 2019						465				465
b. END FY 2023						510				510

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0
b. INVENTORY TOTAL AS OF YYYMMDD	0
c. AUTHORIZATION NOT YET IN INVENTORY	0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	69,310
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	69,310

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
73046	VAN VOORHIS ELEMENTARY SCHOOL	104,000 SF	69,310	APR 2018	NOV 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

Military Dependent Education

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 DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date February 2020
3. INSTALLATION AND LOCATION US ARMY GARRISON FORT KNOX, KENTUCKY	4. PROJECT TITLE: VAN VOORHIS ELEMENTARY SCHOOL	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	AM00182	69,310

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 42,430**
VAN VOORHIS ELEMENTARY SCHOOL (73046)	SF	104,000	$ 391.25	$ 40,690
SDD AND FEDERAL ENERGY ACTS COMPLIANCE	LS			$ 910
CYBERSECURITY MEASURES	LS			$ 830
SUPPORTING FACILITIES				**$ 19,800**
SPECIAL FOUNDATION FEATURES	LS			$ 3,560
ELECTRICAL/GAS UTILITIES	LS			$ 660
COMMUNICATION UTILITIES	LS			$ 430
WATER/SEWER UTILITIES	LS			$ 2,420
SITE PREPARATION	LS			$ 250
SITE IMPROVEMENTS	LS			$ 7,850
DEMOLITION	LS			$ 3,440
ENVIRONMENTAL MITIGATION	LS			$ 1,190
SUBTOTAL				**$ 62,230**
CONTINGENCY (5.00%)			5.00%	$ 3,110
TOTAL CONTRACT COST				**$ 65,340**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			5.70%	$ 3,720
ENGINEERING DURING CONSTRUCTION				$ 250
TOTAL REQUEST				$ 69,310
TOTAL REQUEST (ROUNDED)				**$ 69,310**
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				$ 3,166

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct an elementary school with functional areas containing neighborhood instructional spaces, special education spaces, staff collaboration spaces, commons area, multipurpose room, information center, gymnasium, art room, music room, administrative suite, guidance counseling suite, special education suite, health suite, food service, maintenance support, central storage area, technology service center, and other required areas for a fully functioning elementary school. Typical construction is anticipated to consist of spread footings, steel frame, brick exterior, metal stud and gypsum board interior partitions, and operable/movable partition walls so that the elementary school may be flexible for future development/expansion.

Department of Defense (DoD) and Department of Defense Education Activity (DoDEA) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders.

Facilities will be designed to provide cyber security engineering and validation as specified in DoD Unified Facilities Criteria.

Special foundation features include additional foundation support or soil improvements due to poor soil conditions on the installation.

The project includes related infrastructure such as water, sewer, electric, and communications which includes telephone, wired and wireless local area network, and community access television systems.

1. COMPONENT DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date February 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
US ARMY GARRISON FORT KNOX, KENTUCKY	VAN VOORHIS ELEMENTARY SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	AM00182	69,310

Site work includes site preparation and site improvements, such as signage, fencing, paving, sidewalks, external AT/FP features, landscaping, covered walkways, exterior lighting, exterior play areas, and storm water management. AT/FP features will comply with AT/FP regulations, and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Low Impact Development will be included in the design and construction of this project as appropriate.

Demolition includes approximately 84,000 SF of existing facilities.

Environmental mitigation will be required. Hazardous material mitigation will be required for the buildings to be demolished. U.S. Federal Environmental Laws and Regulations shall be followed. Asbestos containing materials are present in the existing facilities. The site is a known radon risk. Radon resistant construction shall be incorporated into new design.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, DoD Unified Facilities Criteria and other applicable codes.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facilities Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 104,000 SF ADQT: 0 SF SUBSTD: 84,000 SF

PROJECT:

This project constructs an elementary school by replacing the existing elementary school and associated support facilities.

REQUIREMENT:

The elementary school is required to provide adequate academic facilities for 510 students in Pre-Kindergarten through fifth grade. School population is based on the projected enrollment for 2023/2024 school year.

This project is not sited in a 100-year flood plain.

CURRENT SITUATION:

The current elementary school was originally constructed in 1958. A six-classroom addition (north wing) was constructed in 1994, but is condemned due to foundation failure. The overall facility is in poor condition. The condition and spaces of the school are inadequate and do not meet the DoDEA Education Facilities Specifications. The existing school has been at maximum capacity for several years. Many building systems are outdated, failing, and in need of repair or replacement. The existing school does not comply with current building codes, AT/FP standards, and sustainability standards. Interior finishes are degraded. Heating, ventilation, and air conditioning along with the electrical systems are not sufficient and do not meet federally mandated energy performance standards. Portions of the buildings plumbing infrastructure are original, requiring frequent repair/replacement of plumbing components. Exterior walls and windows do not meet energy standards and are in need of repair or replacement.

IMPACT IF NOT PROVIDED:

1. COMPONENT DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date February 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
US ARMY GARRISON FORT KNOX, KENTUCKY	VAN VOORHIS ELEMENTARY SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73046	AM00182	69,310

If a new facility is not provided, the substandard environment will continue to hamper the educational process and the existing elementary school will not be able to support the DoDEA curriculum and provide a safe facility for education. The substandard conditions and the required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets. The continued use of substandard facilities will have a negative impact on the existing and incoming students and the learning environment.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	APR 2018
(b) Percent of Design Completed as of January 2020:	35%
(c) Design or RFP Complete:	NOV 2020
(d) Total Design Cost:	6,931
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	MAY 2021
(b) Construction Start:	JUN 2021
(c) Construction Complete:	DEC 2023

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Furnishings	O&M	2024	587
Kitchen	O&M	2024	383
IT	O&M	2024	1,153
Education Supplies	O&M	2024	975
Safety Equipment	O&M	2024	10
Security Equipment	O&M	2024	58

JOINT USE CERTIFICATION:

This facility can be used by other components on an “as available” basis; however, the scope of the project is based on DoDEA requirements.

DoDEA POC (571) 372-1405

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DoDEA)		February 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN	DoDEA	1.93

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20170930						628				628
b. END FY 2022						673				673

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0
b. INVENTORY TOTAL AS OF YYYMMDD	0
c. AUTHORIZATION NOT YET IN INVENTORY	170,386
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	170,386

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
73061	KINNICK HIGH SCHOOL, INCREMENT 2	166,100 SF	30,000	APR 2016	JAN 2019

9. FUTURE PROJECTS

73061	KINNICK HIGH SCHOOL, INCREMENT 3	166,100 SF	100,386	APR 2016	JAN 2019

10. MISSION OR MAJOR FUNCTIONS

Military Dependent Education

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 DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date February 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN	KINNICK HIGH SCHOOL, INCREMENT 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73061	PA00109	30,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST
PRIMARY FACILITIES				**$ 109,056**
KINNICK HIGH SCHOOL (73061)	SF	163,000	$ 627.50	$ 102,282
FIELD HOUSE (73061)	SF	3,100	$ 370.00	$ 1,147
SDD AND FEDERAL ENERGY ACTS COMPLIANCE	LS			$ 1,307
ANTITERRORISM (AT/FP) MEASURES	LS			$ 3,502
CYBERSECURITY MEASURES	LS			$ 818
SUPPORTING FACILITIES				**$ 43,009**
SPECIAL FOUNDATION FEATURES	LS			$ 7,293
ELECTRICAL/GAS UTILITIES	LS			$ 7,842
COMMUNICATION UTILITIES	LS			$ 1,596
WATER/SEWER UTILITIES	LS			$ 5,377
SITE PREPARATION	LS			$ 4,110
SITE IMPROVEMENTS	LS			$ 14,586
AT/FP - PHYSICAL SECURITY MEASURES	LS			$ 509
DEMOLITION	LS			$ 738
ENVIRONMENTAL MITIGATION	LS			$ 958
SUBTOTAL				**$ 152,065**
CONTINGENCY (5.00%)			5.00%	$ 7,603
TOTAL CONTRACT COST				**$ 159,668**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH)			6.50%	$ 10,378
ENGINEERING DURING CONSTRUCTION				$ 340
TOTAL REQUEST				**$ 170,386**
PREVIOUS APPROPRIATIONS				$ 40,000
FUTURE APPROPRIATIONS				$ 100,386
CURRENT APPROPRIATION REQUEST				**$ 30,000**
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				$ 4,668

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

This is the second increment of the Kinnick High School replacement. The project will construct a four story high school with functional areas containing neighborhood instructional spaces, special education spaces, staff collaboration spaces, commons area, performance space, information center, physical education, art room, music room, science labs, career technical education labs, junior reserved officer's training corps, administration suite, health suite, guidance counseling suite, special education suite, food service, janitorial workroom, maintenance support, school supply/storage area, technology service center, and other required areas for a fully functioning high school. Typical construction is anticipated to consist of concrete beam and pile foundation, concrete and structural steel frame, and concrete exterior walls. Interior construction will consist of gypsum wallboard partitions, operable/movable partition walls, and reinforced concrete walls.

Department of Defense (DoD) and Department of Defense Education Activity (DoDEA) principles for high performance and sustainable building requirements will be included in the design and construction of the project in

1. COMPONENT DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**		2. Date February 2020
3. INSTALLATION AND LOCATION COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN		4. PROJECT TITLE: KINNICK HIGH SCHOOL, INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73061	7. PROJECT NUMBER PA00109	8. PROJECT COST ($000) 30,000

accordance with federal laws and Executive Orders. Low Impact Development will be included in the design and construction of this project as appropriate.

This project will provide Anti-Terrorism/Force Protection (AT/FP) features, including design for progressive collapse and blast-rated windows and doors, and comply with AT/FP regulations, and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings and any Theater-specific requirements.

Facilities will be designed to provide cyber security engineering and validation as specified in DoD Unified Facilities Criteria.

The project site is on reclaimed land with dredged fill and the project will require deep concrete pile foundations as a special foundation feature due to the un-compacted or non-uniform nature of the underlying soils

The project includes related infrastructure such as water, sewer, steam, electrical, telephone, local area network, community access television systems, provisions for interior and campus wireless access. The project includes site preparation that includes non-building demolition and site improvements such as signage, fencing, paving, landscaping, covered walkways, canopies, exterior lighting, storm water, external AT/FP, pedestrian crosswalks, outdoor play areas, and athletic fields.

Demolition includes approximately 45,000 SF of existing facilities.

The project will require environmental mitigation for all buildings to be demolished, including asbestos removal. U.S. Federal and Japanese Environmental Laws and Regulations will be followed. Part of the site is on reclaimed land area with Tokyo Bay dredge fill material known as Briggs Bay. Soil contamination levels were determined to be acceptable with the implementation of risk management procedures during construction. Environmental mitigation will be required during construction to monitor, contain and remediate the soils.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, Unified Facilities Criteria, Japan Environmental Governing Standards, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facilities Criteria. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 166,100 SF ADQT: 0 SF SUBSTD: 45,000 SF

PROJECT:

This project constructs a new high school by replacing the existing high school and associated support facilities.

REQUIREMENT:

The high school is required to provide adequate academic facilities for 673 students in grades 9 through 12.

School population based on the projected enrollment for 2022/2023 school year.

This project is not sited in a 100-year flood plain.

1. COMPONENT DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date February 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN	KINNICK HIGH SCHOOL, INCREMENT 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	73061	PA00109	30,000

CURRENT SITUATION:

The current high school was originally constructed in 1989. A temporary building was built in 1996 to provide 12 additional classrooms. The school has a poor facility condition rating; it is more economical to replace than to repair. The following systems are expired or are failing and in need of replacement; fire alarm and suppression, electrical power and telecommunication, heating ventilation and air-conditioning, steam heating, plumbing piping, toilet fixtures, wall finishes, floor finishes, door hardware, and windows. The facility does not meet the DoDEA Education Facilities Specifications to include a bus drop off and pick up area, a parent drop off and pick up area, and adequate parking due to a tight site that does not provide room for expansion. The school lacks outdoor athletic facilities and currently utilizes the installation facilities when available. The facility does not meet current Antiterrorism measures, accessibility requirements, fire protection codes, and current federal energy and sustainability mandates. Additionally, the existing school campus is in the middle of the Yokosuka Naval Base community support area and is not in accordance with the Yokosuka Naval Base Master Plan.

IMPACT IF NOT PROVIDED:

The substandard environment will continue to hamper the educational process and the high school will not be able to support the DoDEA curriculum and provide for a safe facility. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	APR 2016
(b) Percent of Design Completed as of January 2020:	100%
(c) Design or RFP Complete:	JAN 2019
(d) Total Design Cost:	10,966
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data:	
(a) Contract Award:	OCT 2020
(b) Construction Start:	NOV 2020
(c) Construction Complete:	OCT 2024

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Furnishings	O&M	2023	774
Kitchen	O&M	2023	505
IT	O&M	2023	1,461
Education Supplies	O&M	2023	1,841
Safety Equipment	O&M	2023	10
Security Equipment	O&M	2023	77

1. COMPONENT DEF (DoDEA)	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**		2. Date February 2020
3. INSTALLATION AND LOCATION COMMANDER FLEET ACTIVITIES (CFA), YOKOSUKA, JAPAN		4. PROJECT TITLE: KINNICK HIGH SCHOOL, INCREMENT 2	
5. PROGRAM ELEMENT	6. CATEGORY CODE 73061	7. PROJECT NUMBER PA00109	8. PROJECT COST ($000) 30,000

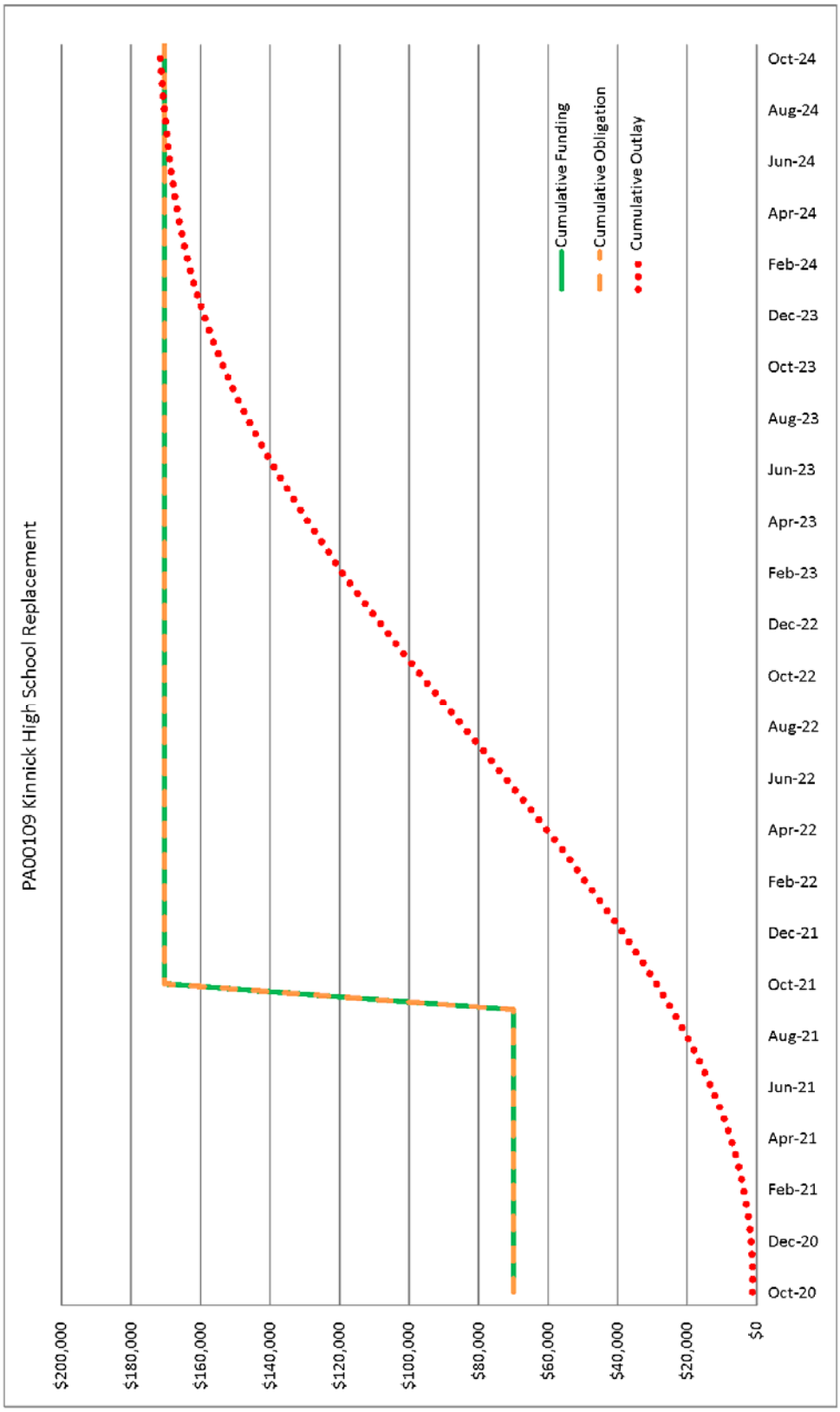
C. Funding Profile:

Authorizations	
FY 2019	170,386
Appropriations	
FY 2019	40,000
FY 2021	30,000
FY 2022	100,386
	170,386

JOINT USE CERTIFICATION:

This facility can be used by other components on an "as available" basis; however, the scope of the project is based on DoDEA requirements.

DoDEA POC (571) 372-1405


PA00109 Kinnick High School Replacement
Cumulative Funding
Cumulative Obligation
Cumulative Outlay
$200,000
$180,000
$160,000
$140,000
$120,000
$100,000
$80,000
$60,000
$40,000
$20,000
$0
Oct-24
Aug-24
Jun-24
Apr-24
Feb-24
Dec-23
Oct-23
Aug-23
Jun-23
Apr-23
Feb-23
Dec-22
Oct-22
Aug-22
Jun-22
Apr-22
Feb-22
Dec-21
Oct-21
Aug-21
Jun-21
Apr-21
Feb-21
Dec-20
Oct-20

Project Spending Plan

Project: FY19 PA00109 Kinnick High School Replacement

As Of: 12/20/2019

	Funding		Obligation		Outlay	
Month/Year	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
	All costs in thousands ($000)					
Oct-20	$70,000	$70,000	$70,000	$70,000	$0	$0
Nov-20	-	$70,000	-	$70,000	$0	$0
Dec-20	-	$70,000	-	$70,000	$872	$872
Jan-21	-	$70,000	-	$70,000	$872	$1,744
Feb-21	-	$70,000	-	$70,000	$872	$2,615
Mar-21	-	$70,000	-	$70,000	$1,604	$4,220
Apr-21	-	$70,000	-	$70,000	$1,604	$5,824
May-21	-	$70,000	-	$70,000	$2,994	$8,818
Jun-21	-	$70,000	-	$70,000	$2,994	$11,811
Jul-21	-	$70,000	-	$70,000	$2,994	$14,805
Aug-21	-	$70,000	-	$70,000	$2,994	$17,799
Sep-21	-	$70,000	-	$70,000	$2,994	$20,793
Oct-21	$100,386	$170,386	$100,386	$170,386	$2,994	$23,787
Nov-21	-	$170,386	-	$170,386	$2,994	$26,780
Dec-21	-	$170,386	-	$170,386	$2,232	$29,012
Jan-22	-	$170,386	-	$170,386	$8,932	$37,944
Feb-22	-	$170,386	-	$170,386	$8,932	$46,877
Mar-22	-	$170,386	-	$170,386	$3,125	$50,002
Apr-22	-	$170,386	-	$170,386	$4,621	$54,623
May-22	-	$170,386	-	$170,386	$4,621	$59,244
Jun-22	-	$170,386	-	$170,386	$4,621	$63,865
Jul-22	-	$170,386	-	$170,386	$4,621	$68,486
Aug-22	-	$170,386	-	$170,386	$4,621	$73,107
Sep-22	-	$170,386	-	$170,386	$8,731	$81,837
Oct-22	-	$170,386	-	$170,386	$8,731	$90,568
Nov-22	-	$170,386	-	$170,386	$8,731	$99,298
Dec-22	-	$170,386	-	$170,386	$8,835	$108,133
Jan-23	-	$170,386	-	$170,386	$8,835	$116,968
Feb-23	-	$170,386	-	$170,386	$4,499	$121,467
Mar-23	-	$170,386	-	$170,386	$2,639	$124,106
Apr-23	-	$170,386	-	$170,386	$2,639	$126,744
May-23	-	$170,386	-	$170,386	$2,639	$129,383
Jun-23	-	$170,386	-	$170,386	$2,639	$132,022
Jul-23	-	$170,386	-	$170,386	$2,639	$134,661
Aug-23	-	$170,386	-	$170,386	$2,639	$137,300
Sep-23	-	$170,386	-	$170,386	$4,161	$141,461
Oct-23	-	$170,386	-	$170,386	$3,885	$145,346
Nov-23	-	$170,386	-	$170,386	$3,885	$149,231
Dec-23	-	$170,386	-	$170,386	$4,145	$153,377
Jan-24	-	$170,386	-	$170,386	$5,154	$158,531
Feb-24	-	$170,386	-	$170,386	$5,154	$163,685
Mar-24	-	$170,386	-	$170,386	$4,197	$167,882
Apr-24	-	$170,386	-	$170,386	$518	$168,401
May-24	-	$170,386	-	$170,386	$518	$168,919
Jun-24	-	$170,386	-	$170,386	$518	$169,437
Jul-24	-	$170,386	-	$170,386	$518	$169,956
Aug-24	-	$170,386	-	$170,386	$11	$169,967
Sep-24	-	$170,386	-	$170,386	$11	$169,978
Oct-24	-	$170,386	-	$170,386	$11	$169,989
Nov-24	-	$170,386	-	$170,386	$11	$170,000

Defense Threat Reduction Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
New Mexico				
Kirtland Air Force Base				
Administrative Building	46,600	46,600	C	79
Total	**46,600**	**46,600**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (DTRA)		February 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
KIRTLAND AFB, NM	Defense Threat Reduction Agency	0.93

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20170930										0
b. END FY 2022										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	46,600.00
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	46,600.00

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
610811	Administrative Building	76,057 SF	46,600	MAR 2019	JUN 2020

9. FUTURE PROJECTS

N/A					

10. MISSION OR MAJOR FUNCTIONS

DTRA enables DoD and the U.S. Government to prepare for and combat weapons of mass destruction and improvised threats and to ensure nuclear deterrence.

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 DTRA	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**	2. Date FEB 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
KIRTLAND AFB, NM	ADMINISTRATIVE BUILDING

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	610811	DTRA-01	46,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				**36,050**
ADMINISTRATIVE BUILDING (CC 610811)	SF	76,057	449	(34,150)
SUSTAINABILITY AND ENERGY FEATURES	LS	-	-	(750)
ANTITERRORISM (AT/FP) MEASURES	LS	-	-	(650)
BUILDING INFORMATION SYSTEMS	LS	-	-	(500)
SUPPORTING FACILITIES				**5,387**
SITE PREPARATION AND IMPROVEMENTS	LS			(2,903)
UTILITIES	LS			(1,678)
BUILDING DEMOLITION AND REMEDIATION	LS			(806)
SUBTOTAL				**41,437**
CONTINGENCY (5.00%)				2,072
TOTAL CONTRACT COST				**43,509**
SUPERVISION, INSPECTION AND OVERHEAD (SIOH) (5.7%)				2,480
ENGINEERING DURING CONSTRUCTION				653
TOTAL REQUEST				**46,642**
TOTAL REQUEST (ROUNDED)				**46,600**
EQUIPMENT FROM OTHER APPROPRIATIONS				18,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a multi-story office building that will include open office seating, collaboration areas, private offices, meeting rooms, machine rooms, seismic lab, secure analysis area, and storage. The project includes a Sensitive Compartmented Information Facility located centrally in the building.

Building Information Systems includes Energy Monitoring Control Systems (EMCS), Cyber Security Systems, and related systems.

Site preparation includes standard clearing and grubbing, cut and fill, grading, environmental protection structures, and demolition of chain link fencing; and surrounding hardscape which is comprised of a concrete apron, sidewalks, and asphalt pavement. Site improvements will include storm drainage, curb and gutter, walkways, parking lots, and landscaping.

Utilities include primary and secondary service connections for water, sewer, electrical, natural gas, and communications systems.

Demolition consists of the existing Sandia Base Weapons Museum, building 20358 (FCI: 66) since the new facility will be constructed on this site. The demolition will include remediation of asbestos containing materials in the mastic of the tiles within the museum.

1. COMPONENT DTRA	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**		2. Date FEB 2020
3. INSTALLATION AND LOCATION KIRTLAND AFB, NM		4. PROJECT TITLE: ADMINISTRATIVE BUILDING	
5. PROGRAM ELEMENT	6. CATEGORY CODE 610811	7. PROJECT NUMBER DTRA-01	8. PROJECT COST ($000) 46,600

AT/FP measures will be in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Features will include facility access control, setbacks, blast resistant exterior, Intrusion Detection Systems (IDS), and progressive collapse requirements.

Department of Defense principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development will be included in the design and construction of this project as appropriate to include storm water management features.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria.

Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency.

11. REQUIREMENT: 76,057 SF **ADQT:** 0 SF **SUBSTD:** 100,589 SF

PROJECT: Construct a facility to consolidate DTRA operations into a modern facility at Kirtland AFB.

REQUIREMENT:

DTRA personnel at Kirtland AFB perform the following activities; nuclear inspections, nuclear surety, and nuclear logistics; research and development; security, information technology, engineering, logistics, facilities, human resources, contracting, and finance operations. These organizations collaborate and perform secure/classified work in support of research and testing operations for the Air Force and Sandia Laboratories which are located on Kirtland AFB. Direct working relationships and collaboration with these mission partners is essential to mission success.

Eglin AFB currently hosts DTRA personnel that will be relocated to Kirtland AFB in order to consolidate operations.

CURRENT SITUATION:

DTRA occupies three 1950s era dormitories that were converted to office use in 1972. The buildings are physically separated requiring travel by vehicle in order for personnel to meet. This requires additional time, costs, and inefficiency in day-to-day operations. These buildings do not meet antiterrorism and force protection standards.

The age of the buildings as well as the mechanical, electrical, and plumbing systems have introduced new and significant maintenance issues. They require structural repairs, and the HVAC, roofing, fire alarm and protection systems are functionally obsolete and are at various stages of failure. Two catastrophic events have occurred with the steam system within the last two years and closed one of the buildings for 30+ days. These three buildings will be returned to Kirtland AFB for other uses.

Eglin AFB currently supports 25 DTRA personnel. DTRA personnel at Kirtland AFB currently perform the same function. The group at Eglin AFB will be relocated to Kirtland AFB to consolidate this function in one location. The facility will be returned to Eglin AFB for other uses.

1. COMPONENT DTRA	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA**		2. Date FEB 2020
3. INSTALLATION AND LOCATION KIRTLAND AFB, NM		4. PROJECT TITLE: ADMINISTRATIVE BUILDING	
5. PROGRAM ELEMENT	6. CATEGORY CODE 610811	7. PROJECT NUMBER DTRA-01	8. PROJECT COST ($000) 46,600

IMPACT IF NOT PROVIDED: DTRA operations will continue to be interrupted due to failing building components and incur increasing unplanned expenditures to repair facilities well past their useful life.

JOINT USE CERTIFICATION: The DTRA Chief of Engineering & Facilities certifies that this project has been considered for joint use potential. Unilateral construction is recommended. While others may be able to use this facility, the project is scoped based on DTRA requirements.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design/Bid/Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	MAR 2019
(b) Percent of Design Completed as of January 2020:	65%
(c) Design or RFP Complete:	JUN 2020
(d) Total Design Cost ($000):	3,112
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	Yes
(3) Construction Data:	
(a) Contract Award:	FEB 2021
(b) Construction Start:	APR 2021
(c) Construction Complete:	FEB 2023

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated of Requested	Cost ($000)
Furnishings	O&M	2023	4,000
IT Infrastructure	PDW	2023	4,000
IT Infrastructure	O&M	2023	4,000
Security Equipment	O&M	2023	6,000

Engineering & Facilities Division
Telephone: (571) 616-6403

DD FORM 1391, JUL 1999

THIS PAGE INTENTIONALLY LEFT BLANK

Missile Defense Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Alaska				
Fort Greely				
Communications Center	48,000	48,000	N	84
Total	**48,000**	**48,000**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE
DEF (MDA)		Feb 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Fort Greely, Alaska	Missile Defense Agency	2.53

6. PERSONNEL N/A: Tenant of U.S. Army	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	0.00
b. INVENTORY TOTAL AS OF YYYMMDD	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	48,000.00
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	48,000.00

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
13120	Communications Center	11,500 sf	48,000	Mar 2019	Oct 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

The mission of the Missile Defense Agency (MDA) is to develop and deploy a layered Missile Defense System (MDS) to defend the United States, its deployed forces, allies, and friends from missile attacks in all phases of flight. The Fort Greely Communication Center project is required to support the Warfighter mission and enhance homeland defense from emerging threats. Improved communications capabilities are required to support expansion activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Fort Greely, Alaska	Communications Center

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603882C	13120	MDA 680	48,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				31,589
Communications Center (13120)	SF	11,500	2,207	(25,380)
Special Construction	LS	-	-	(6,209)
SUPPORTING FACILITIES				11,061
Electrical/Comms Services	LS	-	-	(8,321)
Civil/Mechanical Services	LS	-	-	(920)
Site Preparations	LS	-	-	(1,535)
Site Improvements	LS	-	-	(285)
SUBTOTAL				42,649
CONTINGENCY (5.0%)				2,132
TOTAL CONTRACT COST				44,781
SIOH (6.5%)				2,911
Design During Construction (0.5%)				224
TOTAL REQUEST				47,916
TOTAL REQUEST ROUNDED				48,000
INSTALLED EQPT-OTHER APPROPRIATIONS				(54,166)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a Communications Center in support of the Ballistic Missile Defense System (BMDS) at Fort Greely, AK (FGA) to house mission communication equipment.

Primary Facility:

Communications Center with construction matching surrounding existing facilities (cast-in-place concrete walls). The building will use a single sloped or double pitched roof as part of a cold roof design. The facility will be a single story structure with attic that permits access to inspect High Altitude Electromagnetic Pulse (HEMP) shield from above. Interior framing will include seismic supports for installed equipment. Lightning protection and equipment grounding/bonding systems are included. Foundation includes features to meet site-specific ground motion, seismic and any blast protection requirements. Anti-Terrorism Force Protection features will be incorporated in accordance with applicable Unified Facilities Criteria (UFC). Facility to comply with UFC 1-200-01 DoD Building Code.

Facility will incorporate special construction for HEMP, Electromagnetic Interference (EMI), and Toxic Free Area protection.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
Fort Greely, Alaska	Communications Center

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603882C	13120	MDA 680	48,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (continued)

Supporting Facilities:

Electrical and Communications services will include HEMP protected electrical distribution and communications (existing and new) systems. Utilidor extension will be provided to connect to the existing infrastructure.

Civil and Mechanical Services will include water, sewer, walkways, fire protection & alarm systems and sewer / septic system. Appropriate HEMP and EMI waveguides will be used for all mechanical penetrations through shield boundaries.

Site Preparations include mobilization, clearing, grubbing, excavation and grading.

Site Improvements include connection to existing roads, fencing and new pavements.

11. REQUIREMENT: 25,353 SF ADQT: 13,853 SF SUBSTD: 0 SF

PROJECT: Construct a Communications Center and supporting infrastructure to house mission communication equipment required for connectivity between BMDS assets.

REQUIREMENT: This project is required to support the Warfighter mission and enhance homeland defense from emerging threats. As adversaries pursue credible and advanced capabilities, the United States must improve and adapt its missile defense capabilities to outpace the threats.

CURRENT SITUATION: This capability does not currently exist at FGA to support BMDS mission requirements. The Warfighter executes its mission using existing facilities distributed geographically across the BMDS. Operational Ground Based Interceptors (GBIs) are hosted at FGA and Vandenberg Air Force Base, CA, with additional equipment distributed worldwide.

IMPACT IF NOT PROVIDED: The Warfighter lacks additional space for mission communication equipment from which to execute the BMDS mission.

ADDITIONAL INFORMATION:

The project was evaluated for compliance with Executive Orders 11988 Flood Plain Management and 11990 Protection of Wetlands and the Flood Plain Management Guidelines of U.S. Water Resources Council. The Project is not sited on the 100-year flood plain and is sited to preserve and enhance the natural and beneficial values of wetlands; and minimize destruction, loss or degradation of wetlands.

Anti-Terrorism Force Protection will be incorporated in accordance with applicable Unified Facilities Criteria (UFC).

Project to be executed in accordance with the NMD Deployment Final EIS dated July 2000.

Complies with UFC 1-200-02 High Performance and Sustainable Building Requirements to achieve high performance and sustainable buildings complying with the Energy Policy Act of 2005, and the Energy Independence and Security Act of 2007.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MDA		Feb 2020

4. INSTALLATION AND LOCATION	4. PROJECT TITLE
Fort Greely, Alaska	Communications Center

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0603882C	13120	MDA 680	48,000

12. SUPPLEMENTAL DATA:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Mar 2019
(b) Percent Complete As Of January 2020	65%
(c) Design or RFP Complete:	Oct 2020
(d) Total Design Cost ($000):	4,800
(e) Energy Study and/or Life Cycle Analysis performed	No
(f) Standard or definitive design used?	No
(3) Construction Data:	
(a) Contract Award	Feb 2021
(b) Construction Start	Apr 2021
(c) Construction Completion	Jun 2023

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost $(000)
Construction Free Zone (CFZ)	RDT&E	FY21	1,921
Equipment Rack Isolation Framing	RDT&E	FY21	240
Site Activation / IPO	RDT&E	FY22-23	2,248
GFC/GCN Equipment	RDT&E	FY22-23	47,856
Security Equipment/IESS	RDT&E	FY22	533
Mission Fiber Optic Cable	RDT&E	FY23	739
Furniture, Furnishings & Equipment(FFE)	RDT&E	FY23	629
		Total RDT&E:	54,166
		Total:	54,166

THIS PAGE INTENTIONALLY LEFT BLANK

National Geospatial-Intelligence Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	New/ Approp. Request	Current Mission	Page No.
Missouri				
Saint Louis				
Next NGA West (N2W) Complex, Phase 2 Increment 3	-	119,000	C	89
Total	**-**	**119,000**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (NGA)		February 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
St. Louis, Missouri	NGA	1.00

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF YYYMMDD										0
b. END FY										0

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	97.20
b. INVENTORY TOTAL AS OF YYYMMDD	801.00
c. AUTHORIZATION NOT YET IN INVENTORY	709,800.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	119,000.00
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	829,601.00

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
141-456	Next NGA West (N2W) Complex, Ph 2 (Incr 3)	a. 481,300 SF Occupied Bldgs. b. 496,125 SF Pkg. Structure	119,000	Mar 2019	Oct 2020

9. FUTURE PROJECTS

10. MISSION OR MAJOR FUNCTIONS

National Geospatial-Intelligence Agency (NGA) is a defense combat support agency that provides geospatial-intelligence (GEOINT) functional management, intelligence products, and services to the Intelligence Community (IC), DOD, and other federal entities in support of national security objectives.

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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE *(YYYYMMDD)*
DEF (NGA)		February 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
St. Louis, Missouri	Next NGA West (N2W) Complex, Ph. 2 Increment 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST *($000)*
	141-56	NGA-016B	$119,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST *($000)*
PRIMARY FACILITIES				**352,248**
Main Operations Building (141456)	SF	464,500	574.84	(267,014)
Central Utilities Plant Built-in Equipment	LS	1		(6,834)
Visitor Control Center (730832)	SF	7,300	601.26	(4,389)
Remote Inspection Facility (422275)	SF	9,500	618.17	(5,873)
Structured Parking (853101)	SF	496,125	62.39	(30,955)
Special Foundations	LS	1		(16,414)
Antiterrorism Measures	LS	1		(12,603)
Sustainability and Energy Features	LS	1		(4,006)
Building Commissioning	LS	1		(4,160)
SUPPORTING FACILITIES				**31,301**
Steam and Chilled Water System	LS	1		(555)
Paving, Walks, Curbs and Gutters	LS	1		(8,336)
Site Improvements	LS	1		(12,178)
Information Systems	LS	1		(9,678)
Antiterrorism Measures	LS	1		(554)
ESTIMATED CONTRACT COST				**383,549**
Contingency (5.0%)				19,177
SUBTOTAL				**402,726**
SIOH (5.7%)				22,955
Design/Build – Design Cost (4.0%)				16,109
Engineering During Construction (EDC) (1.5%)				6,041
TOTAL REQUEST				**447,831**
TOTAL REQUEST (Rounded)				**447,800**
Equipment from other appropriations				**288,700**

DD FORM 1391, JUL 1999 PREVIOUS EDITION IS OBSOLETE.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. DATE *(YYYYMMDD)*
DEF (NGA)			February 2020
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
St. Louis, Missouri		Next NGA West (N2W) Complex, Ph. 2 Increment 3	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST *($000)*
	141-56	NGA-016B	$119,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Constructs Phase 2 of the Next NGA West (N2W) Complex that will completely replace NGA's current sub-standard facilities located on South Second Street in St. Louis. This project will construct the balance of the Main Operations Building (MOB) requirement, provide equipment for the Central Utility Plant (CUP), and construct a Visitor Control Center (VCC), a Remote Inspection Facility (RIF), and a structured parking garage.

The MOB will include open office seating, an operations center, analyst/planner collaboration areas, joint staff offices, executive offices, meeting rooms, machine rooms, and storage space. The MOB will be built to Sensitive Compartmented Information Facility (SCIF) standards and contain elevators, raised access flooring, TEMPEST shielding, resilient primary power and Uninterruptable Power Supply (UPS) systems to ensure continuity of operations.

The CUP built-in equipment provides the additional mechanical and electrical systems to support the MOB.

The VCC is a separate, stand-alone facility that supports overall access to the site.

The RIF will all deliveries to the site and will be remote from the MOB and CUP to address security requirements.

Structured parking will be a parking garage to fulfill parking requirements for the completed N2W complex.

Special foundations include drilled shafts and shear walls.

Physical security mitigation will be in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Anti-Terrorism/Force Protection (AT/FP) features will include facility access control, setbacks, blast resistant exterior, Intrusion Detection Systems (IDS), and progressive collapse requirements, and comply with AT/FP regulations.

Site preparation includes standard clearing and grubbing, cut and fill, grading, and environmental protection structures.

Utilities infrastructure will include steam and chilled water, secure telecommunications, and building information systems.

Site improvements will include storm drainage, curb and gutter, walkways, patios, roads, and landscaping.

Department of Defense principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Energy Monitoring Control Systems (EMCS) will be integrated into the infrastructure. Low Impact Development will be included in the design and construction of this project as appropriate to include storm water management features.

Facilities will be designed to meet or exceed the useful service life specified in DoD Unified Facility Criteria. 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	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. DATE (YYYYMMDD)
DEF (NGA)			February 2020
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
St. Louis, Missouri		Next NGA West (N2W) Complex, Ph. 2 Increment 3	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	141-56	NGA-016B	$119,000

11. REQUIREMENT: 767,600 SF **ADEQUATE:** 0 SF **SUBSTANDARD:** 907,872 SF

PROJECT: Construct Phase 2 of the new intelligence complex including the Main Operations Building (MOB) and other supporting facilities to replace NGA's substandard facilities located at the St. Louis Arsenal (Second Street compound). (Current Mission)

REQUIREMENT: The N2W complex is required to provide safe, secure, and efficient facilities that will meet NGA's long-term requirements and vision for Geospatial-Intelligence (GEOINT). An open and flexible work environment that is scalable, reconfigurable, and adaptable is required to support changing mission requirements. Mission critical systems and all associated equipment require the ability to operate from backup power source(s) without interrupting 100% of the estimated peak load requirements.

The complex will accommodate a total workforce of approximately 3,150 government personnel and contractors. Phase 1 (FY 2018 NGA-016A) supported approximately 1,100 personnel and Phase 2 (NGA-016B) will support approximately 2,050 personnel. The completed intelligence complex includes a Main Operations Building (MOB) with Central Utility Plant (CUP), Visitor Control Center (VCC), Remote Inspection Facility (RIF), Access Control Points (ACP), as well as structured and surface parking.

CURRENT SITUATION: NGA occupies approximately 908,000 square feet in fifteen separate buildings used for intelligence production, analysis, archival storage, training, administration offices, and maintenance shops. These buildings represent the oldest facilities in the Intelligence Community, where most of the primary facility was constructed in 1918 and has been expanded with additions in 1965 and 1986. In addition, the aged facilities do not comply with current building standards for seismic safety although it lies within the active New Madrid Seismic Zone, which has produced major earthquakes. These facilities have far exceeded their useful life, have a steadily growing maintenance backlog, and experience more frequent failures that are becoming more acute and disruptive to the mission.

Furthermore, the 27-acre Second Street compound is in an industrial area on the bank of the Mississippi River just south of downtown St. Louis. The site is surrounded by the Sigma-Aldrich Chemical Plant to the south, the Anheuser-Busch Brewery to the northwest, an active industrial rail yard to the northeast, and a rail line to the east running between the compound and the river. The constrained site requires NGA to lease land from both the chemical plant and brewery to provide approximately 600 additional parking spaces. Public transportation or other means of transportation is not available to support the assigned personnel. In addition, the site is incapable of meeting current security standards, much less the requirements necessary to protect an intelligence facility.

Due to NGA's consolidation into NGA East during BRAC 2005, there is now an increased reliance on the Second Street compound for continuity of operations; however the infrastructure at the compound was neither originally designed, nor is well-suited to support the dynamically correlated and adaptable intelligence data methods and services required of the GEOINT mission. It is becoming increasingly difficult and cost prohibitive to accommodate technology changes in existing facilities that are more suitable to a flexible and adaptable multi-purpose office environment.

IMPACT IF NOT PROVIDED: Intelligence operations will be split between the new facilities constructed in Phase 1 and continue to be performed out of substandard and inadequately protected facilities putting mission and personnel at risk. Increased investments will be required to maintain the existing facilities including upgrades to support technology changes. These conditions will persist and continue to worsen until the Phase 2 replacement facilities are fully operational in the 2023 timeframe.

JOINT USE CERTIFICATION: NGA considers that this project and the selected site have the potential for joint use; however, the scopes for Phase 1 and Phase 2 of the N2W complex only fund and support current mission requirements and partners. The site was selected with acreage sufficient to support future expansion of mission requirements beyond the funding requested for this project. Such expansion would allow mission partners with compatible or complimentary requirements to collocate with NGA.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. DATE *(YYYYMMDD)*
DEF (NGA)			February 2020
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
St. Louis, Missouri		Next NGA West (N2W) Complex, Ph. 2 Increment 3	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST *($000)*
	141-56	NGA-016B	$119,000

12. SUPPLEMENTAL DATA:

a. Estimated Execution Data:

(1) Acquisition Strategy:	Design Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	SEP 2016
(b) Percent of Design Completed as of 1 JAN 2020	65%
(c) Design or RFP Complete:	MAR 2018
(d) Total Design Cost ($000):	23,760
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used?	Yes
(3) Construction Data:	
(a) Contract Award:	MAR 2019
(b) Construction Start:	SEP 2019
(c) Construction Complete:	AUG 2023

b. Equipment associated with this project provided from other appropriations:

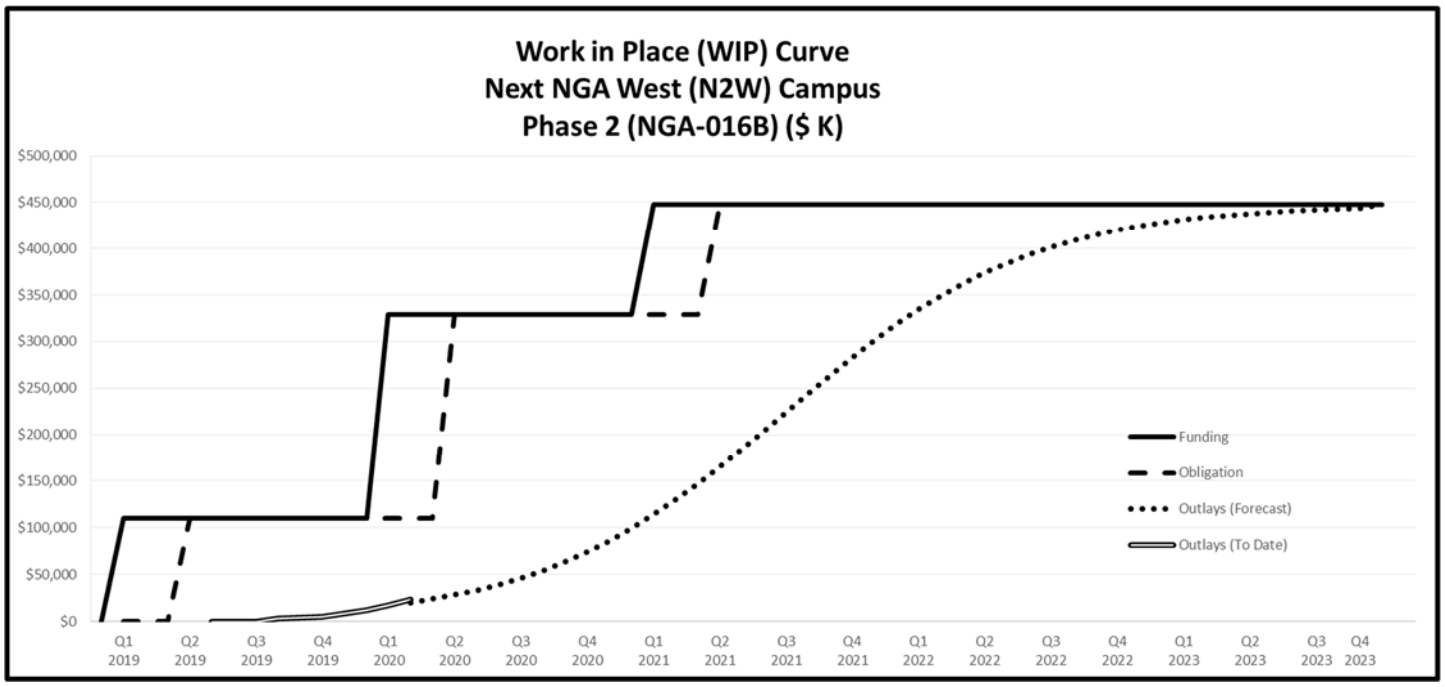
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
Security Management System Support	O&M, DW	2021	3,500
Security Management System Support	O&M, DW	2022	4,300
Security Management System Equipment	P, DW	2022	7,500
Security Management System Support	O&M, DW	2023	4,300
Security Management System Equipment	P, DW	2023	9,300
Security Management System Support	O&M, DW	2024	2,400
Security Management System Support	O&M, DW	2025	2,400
Communication Support	O&M, DW	2021	6,000
Communication Equipment	P, DW	2021	25,000
Communication Support	O&M, DW	2022	14,700
Communication Equipment	P, DW	2022	70,500
Communication Support	O&M, DW	2023	26,000
Communication Equipment	P, DW	2023	18,600
Communication Support	O&M, DW	2024	22,200
Communication Equipment	P, DW	2024	21,700
Communication Support	O&M, DW	2025	14,800
Furnishings, Fixtures, and Equipment	O&M, DW	2022	35,500

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. DATE *(YYYYMMDD)*
DEF (NGA)			February 2020
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
St. Louis, Missouri		Next NGA West (N2W) Complex, Ph. 2 Increment #3	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST *($000)*
	141-56	NGA-016B	$119,000

12. SUPPLEMENTAL DATA:

c. Funding Profile:

Authorizations	
FY 2019	$447,800,000
Appropriations	
FY 2019	$110,000,000
FY 2020	$218,800,000
FY 2021	$119,000,000
	$447,800,000


Work in Place (WIP) Curve
Next NGA West (N2W) Campus
Phase 2 (NGA-016B) ($ K)
$500,000
$450,000
$400,000
$350,000
$300,000
$250,000
$200,000
$150,000
$100,000
$50,000
$0
Q1 2019
Q2 2019
Q3 2019
Q4 2019
Q1 2020
Q2 2020
Q3 2020
Q4 2020
Q1 2021
Q2 2021
Q3 2021
Q4 2021
Q1 2022
Q2 2022
Q3 2022
Q4 2022
Q1 2023
Q2 2023
Q3 2023
Q4 2023
Funding
Obligation
Outlays (Forecast)
Outlays (To Date)

PROJECT SPENDING PLAN							
PROJECT: Next NGA West (N2W) Complex, St. Louis MO (Phase 2)							
As of:	Feb-20						
All cost in thousands ($000)							
		FUNDING		OBLIGATION		OUTLAYS	
FY	Qtr.	Enacted	Cumulative	Obligated	Cumulative	Quarterly	Cumulative
2019	Q1	$110,000	$110,000	$0	$0	$0	$0
2019	Q2	$0	$110,000	$110,000	$110,000	$0	$0
2019	Q3	$0	$110,000	$0	$110,000	$2,700	$2,700
2019	Q4	$0	$110,000	$0	$110,000	$5,700	$8,400
2020	Q1	$218,800	$328,800	$0	$110,000	$15,200	$23,600
2020	Q2	$0	$328,800	$218,800	$328,800	$13,200	$36,800
2020	Q3	$0	$328,800	$0	$328,800	$21,000	$57,800
2020	Q4	$0	$328,800	$0	$328,800	$31,500	$89,300
2021	Q1	$119,000	$447,800	$0	$328,800	$43,700	$133,000
2021	Q2	$0	$447,800	$119,000	$447,800	$54,700	$187,700
2021	Q3	$0	$447,800	$0	$447,800	$60,000	$247,700
2021	Q4	$0	$447,800	$0	$447,800	$57,300	$305,000
2022	Q1	$0	$447,800	$0	$447,800	$47,700	$352,700
2022	Q2	$0	$447,800	$0	$447,800	$35,500	$388,200
2022	Q3	$0	$447,800	$0	$447,800	$24,200	$412,400
2022	Q4	$0	$447,800	$0	$447,800	$15,500	$427,900
2023	Q1	$0	$447,800	$0	$447,800	$9,600	$437,500
2023	Q2	$0	$447,800	$0	$447,800	$5,800	$443,300
2023	Q3	$0	$447,800	$0	$447,800	$3,500	$446,800
2023	Q4	$0	$447,800	$0	$447,800	$800	$447,600
	Final	$0	$447,800	$0	$447,800	$200	$447,800

THIS PAGE INTENTIONALLY LEFT BLANK

National Security Agency
FY 2021 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Maryland				
Ft. George G. Meade				
NSAW Recapitalization Building 3 Increment 3	-	250,000	C	98
Total	**-**	**250,000**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE (YYYY MMDD)
NSA/CSS DEFENSE		February 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
Fort George G. Meade, Maryland	NSA/CSS	.97

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF										0
b. END FY										0

7. INVENTORY DATA ($000)	
a. TOTAL ACREAGE	0
b. INVENTORY TOTAL AS OF 20180911	0.00
c. AUTHORIZATION NOT YET IN INVENTORY	250,000.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	0.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	1,016,556.00
f. PLANNED IN NEXT THREE PROGRAM YEARS	579,000.00
g. REMAINING DEFICIENCY	0.00
h. GRAND TOTAL	1,845,556.00

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
141-90	NSAW Recapitalization Building #3, Increment 3	a. 952,066 SF (bldg) b. 1,116,612 SF (parking)	250,000	Sept 2017	Aug 2018

9. FUTURE PROJECTS

BUILDING	CODE	SCOPE	COST ($000)	DESIGN DATE START	DESIGN DATE END
NSAW Mission Support Ops Facility (FY22)	141-69	335,000 SF	$195,000	Apr-20	Apr-21
NSAW Recap. Bldg #4, Increment 1 (FY22)	141-90	864,000 SF	$154,000	Oct-19	Apr-21
VCP5 (FY22)	141-13	2,900 SF	$39,000	Oct-20	Dec-21
NSAW Recap. Bldg #4, Increment 2 (FY23)	141-90	864,000 SF	$348,556	Jan-20	Jan-21
NSAW Records Center (FY23)	61-050	85,241 SF	$98,000	Sep-19	Dec-20
NSAW Recap. Bldg #4, Increment 3 (FY24)	141-90	864,000 SF	$280,000	Jan-20	Jan-21
NSAW Recap. Bldg #5, Increment 1 (FY24)	141-90	950,000 SF	$94,000	Oct-21	Apr-23
NSAW Recap. Bldg #5, Increment 2 (FY25)	141-90	950,000 SF	$387,000	Oct-22	Apr-24

10. MISSION OR MAJOR FUNCTIONS

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 PREVIOUS EDITION IS OBSOLETE.

1. Component	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date
NSA/CSS DEFENSE		FEB 2020

3. Installation and Location	4. Project Title
Ft. George G. Meade, Maryland	NSAW RECAPITALIZATION BUILDING 3, INCREMENT 3

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
	143-80	35168	$250,000

9. Cost Estimates

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**644,063**
Operations Building (141-90)	SF	952,066	541.08	(515,145)
Parking Facility (852-18)	SF	1,116,612	69.27	(77,344)
Operation and Maintenance Support Information (OMSI)	LS			(1,000)
Antiterrorism/Force Protection	LS			(44,706)
Sustainability and Energy Features	LS			(5,868)
SUPPORTING FACILITIES				**20,831**
Electrical & Communications Services	LS			(8,735)
Site Utilities	LS			(875)
Paving, Walks, and Roadways	LS			(6,772)
Site Improvements	LS			(3,915)
Site Anti-Terrorism/Force Protection	LS			(534)
ESTIMATED CONTRACT COST				**664,894**
Contingency (5.0%)				33,245
SUBTOTAL				**698,139**
SIOH (5.7%)				39,794
Design/Build (4%)				26,596
Design During Construction				10,471
Total Project Request				775,000
TOTAL PROJECT COST				**775,000**
Equipment from other appropriations				221,300

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a command, control, communications, computers and intelligence (C4I) Operations facility. The project will provide office space, support space, equipment and communications space, maintenance spaces, limited storage space and include a parking facility for staff and visitors.

The technical and operational mission requirements will require that it contain a Sensitive Compartmented Information Facility (SCIF), uninterruptable power system (UPS), connection to existing emergency generators and Telecommunications Electronics Material Protected from Emanating Spurious Transmissions (TEMPEST) protection. The office areas will include open flexible office seating, collaborative multi-discipline work spaces, administrative and conference areas. An intelligence operations suite, auditorium, cafeteria, and multi-purpose innovation spaces will be provided.

The project consists of core and shell structure and foundations; elevator conveyance systems; electrical/mechanical service and distribution components and systems; fire protection, alarm and suppression; information technology infrastructure, communications, and security systems support infrastructure; exterior finishes and weatherproofing. Interior build out will provide raised access floor systems, acoustically-rated interior partitions and ceilings, power, lighting, environmental control and communications.

A parking structure will be constructed to provide new parking spaces for staff and visitors.

1. Component NSA/CSS DEFENSE	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEB 2020
3. Installation and Location Ft. George G. Meade, Maryland			4. Project Title NSAW RECAPITALIZATION BUILDING 3, INCREMENT 3
5. Program Element	6. Category Code 143-80	7. Project Number 35168	8. Project Cost ($000) $250,000

Construction estimates include costs associated with construction on a controlled access site, clearances for personnel, labor inefficiencies associated with escort requirements, and other daily processes at NSA. Escorts are required for positive control of access to primary and secondary utilities, which service other critical NSA facilities.

Physical Security mitigation will be in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Anti-Terrorism/Force Protection (AT/FP) features will include facility access control, setbacks, blast resistant exterior, Intrusion Detection Systems (IDS), and progressive collapse requirements, and comply with AT/FP regulations. Department of Defense principles for high performance and sustainable building requirements will be included in design and construction of the project in accordance with federal laws and Executive Orders.

The supporting facilities include primary electrical service and distribution, standby generators and secure communications infrastructure and cabling. Additional site utilities include water, sewer, gas connection/services from utility providers, and storm drainage systems.

New road construction, and realignment, widening and modifications to existing roads will be provided to connect to existing traffic infrastructure. Additional site improvements consist of walkways, courtyards, landscaping and Low Impact Development (LID) to include storm water management features. Additional site AT/FP measures will include fencing, road improvements and electronic security systems to extend secure perimeter and surveillance capabilities.

11. REQUIREMENT: 141-90: 952,066 GSF SUBSTANDARD: 0 GSF ADEQUATE: 0 GSF
852-18: 1,116,612 GSF SUBSTANDARD: 0 GSF ADEQUATE: 0 GSF

PROJECT: Construct the third in a series of command, control, communications, computers and intelligence (C4I) operations buildings and structured parking facility (Current Mission).

REQUIREMENT: The National Security Agency (NSA) requires a safe and effective environment to provide mission critical facilities services to civilians and active duty service members that allows for the rapid deployment of signals intelligence (SIGINT) products and services to policy makers and military commanders. The new facility will provide reliable, modern and flexible infrastructure to support future technological requirements and reduce energy consumption through improved building and system efficiencies.

CURRENT SITUATION: The existing operations at Fort Meade are located in facilities constructed over 50 years ago and is not conductive to the delivery of mission critical intelligence and operations requirements. The existing facilities have insufficient space and services to support the full range of required missions, resulting in the dispersion of personnel into various functionally obsolete facilities or leased facilities. The main operations and headquarters building suffer from condition and configuration constraints that do not have the power and cooling infrastructure capability to support mission critical activities.

IMPACT IF NOT PROVIDED: There will be increased risk of mission critical failures as the modern communications equipment, computers and intelligence requirements overburden the existing facilities and infrastructure that is beyond its useful life.

1. Component NSA/CSS DEFENSE	FY 2021 MILITARY CONSTRUCTION PROJECT DATA		2. Date FEB 2020
3. Installation and Location Ft. George G. Meade, Maryland			4. Project Title NSAW RECAPITALIZATION BUILDING 3, INCREMENT 3
5. Program Element	6. Category Code 143-80	7. Project Number 35168	8. Project Cost ($000) $250,000

12. SUPPLEMENTAL DATA

A. Estimated Execution Data

(1) Acquisition Strategy — Design/Build

(2) Design Data

(a)	Design or Request for Proposal (RFP) started:	Sep 2017
(b)	Percent of Design Completed as of Jan 2018(BY-1)	15%
(c)	Design or RFP Complete date:	Aug 2018
(d)	Total Design Cost ($000):	$15,000
(e)	Energy Study and/or Life Cycle Analysis performed:	Yes
(f)	Standard or definitive design used	No

(3) Construction Data

(a)	Contract Award:	Feb 2019
(b)	Construction Start:	Aug 2019
(c)	Construction Complete:	Feb 2023

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

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
IT, AV, Security, & Equipment	O&M	FY2022	24,000
IT, AV, Security, Equipment & Furniture	O&M	FY2023	129,000
IT, AV, Security, & Equipment	O&M	FY2024	34,300
IT, AV, Security, & Equipment	O&M	FY2025	34,000

C. Funding Profile:

Authorization	
FY2019:	$775,000,000
Appropriation	
FY2019 Increment 1:	$99,000,000
FY2020 Increment 2:	$426,000,000
FY2021 Increment 3:	**$250,000,000**
TOTAL	$775,000,000

PROJECT SPENDING PLAN FOR INCREMENTALLY FUNDED PROJECT

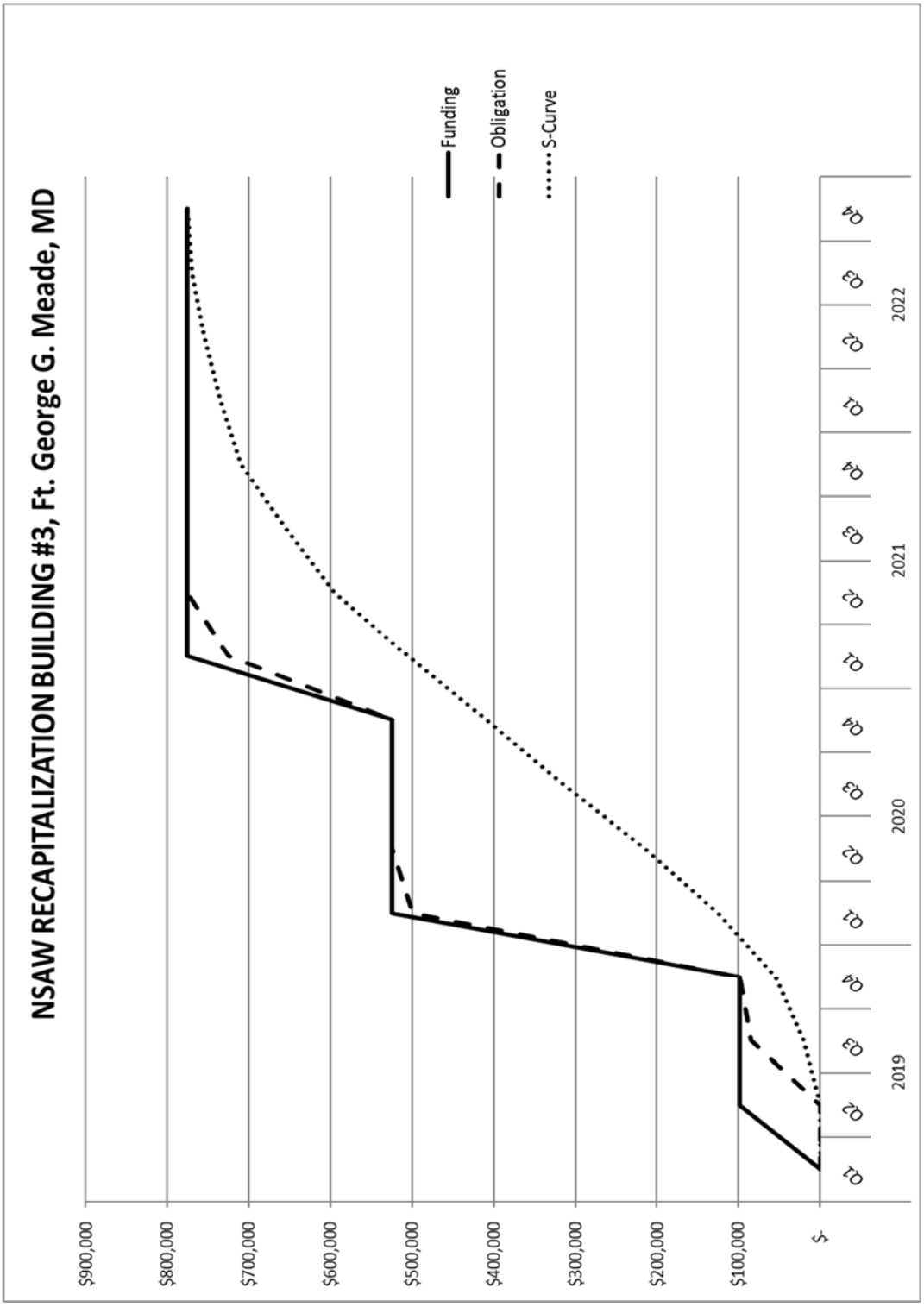
PROJECT: East Campus Building 3 (ECB3)

As Of: 5-Dec-17

All costs in thousands ($000)

		FUNDING (Note 1)		OBLIGATIONS (Note 2)		OUTLAYS (Note 3)	
	Quarter	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative
	Q1	$ -	$ -	$ -	$ -	$ -	$ -
	Q2	$ 99,000	$ 99,000	$ -	$ -	$ -	$ -
	Q3	$ -	$ 99,000	$ 85,000	$ 85,000	$ 20,000	$ 20,000
2019	Q4	$ -	$ 99,000	$ 14,000	$ 99,000	$ 35,000	$ 55,000
	Q1	$ 426,000	$ 525,000	$ 400,000	$ 499,000	$ 70,000	$ 125,000
	Q2	$ -	$ 525,000	$ 26,000	$ 525,000	$ 90,000	$ 215,000
	Q3	$ -	$ 525,000	$ -	$ 525,000	$ 100,000	$ 315,000
2020	Q4	$ -	$ 525,000	$ -	$ 525,000	$ 95,000	$ 410,000
	Q1	$ 250,000	$ 775,000	$ 200,000	$ 725,000	$ 95,000	$ 505,000
	Q2	$ -	$ 775,000	$ 50,000	$ 775,000	$ 90,000	$ 595,000
	Q3	$ -	$ 775,000	$ -	$ 775,000	$ 60,000	$ 655,000
2021	Q4	$ -	$ 775,000	$ -	$ 775,000	$ 55,000	$ 710,000
	Q1	$ -	$ 775,000	$ -	$ 775,000	$ 25,000	$ 735,000
	Q2	$ -	$ 775,000	$ -	$ 775,000	$ 20,000	$ 755,000
	Q3	$ -	$ 775,000	$ -	$ 775,000	$ 15,000	$ 770,000
2022	Q4	$ -	$ 775,000	$ -	$ 775,000	$ 5,000	$ 775,000

Incremental Funding Profile:			Cumulative:
Incr 1	FY19	$ 99,000	$ 99,000
Incr 2	FY20	$ 426,000	$ 525,000
Incr 3	FY21	$ 250,000	$ 775,000


NSAW RECAPITALIZATION BUILDING #3, Ft. George G. Meade, MD
Funding
Obligation
S-Curve
$900,000
$800,000
$700,000
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$-
2019
2020
2021
2022
Q1
Q2
Q3
Q4

-

THIS PAGE INTENTIONALLY LEFT BLANK

U.S. Special Operations Command
FY 2021 Military Construction, Defense-Wide
($ In Thousands)

State/Installation/Project	Authorization Request	Approp Request	New/ Current Mission	Page No
Arizona				
Yuma Proving Ground				
SOF Hangar	49,500	49,500	C	105
Colorado				
Fort Carson				
SOF Tactical Equipment Maintenance Facility	15,600	15,600	C	109
Florida				
Hurlburt Field				
SOF Special Tactics Ops Facility (23 STS)	44,810	44,810	C	113
SOF Combat Aircraft Parking Apron-North	38,310	38,310	C	116
North Carolina				
Fort Bragg				
SOF Military Working Dog Facility	17,700	17,700	C	120
SOF Operations Facility	43,000	43,000	C	123
SOF Group Headquarters	53,100	53,100	C	127
Virginia				
Joint Expeditionary Base Little Creek - Fort Story				
SOF DCS Operations Facility and Command Center	54,500	54,500	C	131
SOF NSWG2 NSWTG CS/CSS Facilities	58,000	58,000	C	134
CONUS Unspecified				
Training Target Structure	14,400	14,400	C	137
Total	**388,920**	**388,920**		

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE (YYYY MMDD)
DEF (USSOCOM)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
YUMA PROVING GROUNDS, ARIZONA	U.S. ARMY SPECIAL OPERATIONS COMMAND	1.17

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20190930	4	56	7	15	75	0	0	0	0	157
b. END FY25	4	68	7	15	85	0	0	0	0	179

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	425
b. INVENTORY TOTAL AS OF 20190930	16,468
c. AUTHORIZATION NOT YET IN INVENTORY	0
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	49,500
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	44,800
g. REMAINING DEFICIENCY	0
h. GRAND TOTAL	110,768

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
211	SOF HANGAR	4,351 SM (46,800 SF)	49,500	06/18	06/20

9. FUTURE PROJECTS

171	SOF MILITARY FREE FALL ADVANCED TRAINING COMPLEX	13,718 SM (148,000 SF)	44,800		

10. MISSION OR MAJOR FUNCTIONS

To plan, conduct, assess, analyze, report, and support developmental test; experiments production tests; and integrated developmental/operations tests; and to provide training support to Army sister services, Department of Defense (DoD), US Government, international, and commercial customers.

Special Operation Forces: organize, train, equip, and validate readiness of special operation forces for world-wide deployment in support of combatant commanders.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
YUMA PROVING GROUND ARIZONA	SOF HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	211	86022	49,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				31,654
AIRCRAFT MAINTENANCE HANGAR (CC21110) (46,800 SF)	SM	4,351	3,700	(16,099)
APRON AND TAXIWAY (CC11380) (44,500 SY)	SM	37,241	375	(13,965)
BUILDING INFORMATION SYSTEMS	LS	--	--	(290)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(200)
CYBERSECURITY MEASURES	LS	--	--	(1,100)
SUPPORTING FACILITIES				12,947
UTILITIES	LS	--	--	(12,400)
ROADS, SIDEWALKS AND PARKING	LS	--	--	(250)
SITE IMPROVEMENTS	LS	--	--	(207)
PASSIVE FORCE PROTECTION MEASURES	LS	--	--	(90)

ESTIMATED CONTRACT COST				44,601
CONTINGENCY (5%)				2,230

SUBTOTAL				46,831
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,669

TOTAL REQUEST				49,500
TOTAL REQUEST (ROUNDED)				49,500
EQUIPMENT FROM OTHER APPROPRIATIONS				(5,221)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a two-bay, fixed wing aircraft operations and maintenance hangar that includes maintenance bays, flight detachment administration and operations, maintenance support, freight elevator, tool and parts storage, and shop space. The facility will include fall protection, bridge crane, oil/water separator, and separate oil and hazardous material storage areas. Built-in building systems include fire alarm/mass notification, fire suppression, energy management controls, advanced communications network, energy monitoring control systems connection, and a protected distribution system. Construction consists of concrete foundation and floor slab with metal frame structure. The project includes construction of new taxiways, hangar access apron, and personnel loading apron. Supporting facilities include upgrade of existing sewage lagoon infrastructure, all related site-work and utilities (electrical, water, gas, sanitary sewer, and information system distribution), lighting, parking, access drives, roads, curb and gutter, sidewalks, landscaping, and other site improvements. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria. Access for individuals with disabilities will be provided. Comprehensive interior design and audio visual services are included.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
YUMA PROVING GROUND ARIZONA	SOF HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	211	86022	49,500

11. REQUIREMENT: 4,351 SM (46,800 SF) **ADEQUATE:** 0 SM **SUBSTANDARD:** 939 SM (10,100 SF)

PROJECT: Construct a two-bay, fixed wing aircraft operations and maintenance hangar with associated apron and taxiway. (Current Mission).

REQUIREMENT: This project is required to provide permanent facilities and infrastructure to accommodate the operations and maintenance of aircraft serving the US Army Special Operation Military Free Fall School (MFFS) at U.S. Army Garrison Yuma Proving Ground (USAGYPG). To support this mission, the U.S. Army Special Operations Aviation Command (USASOAC) MFFS aviation support, requires an adequate two-bay aircraft hangar located on Laguna Army Airfield and configured to accommodate two C-27J Spartan aircraft. The aircraft maintenance hangar will directly improve mission readiness, providing expeditious service to the maintainer and operators. The high operational tempo of the MFFS is accelerating and additional aircraft have been fielded in support of the training increase. Extreme temperature changes and dust combine to significantly degrade the hydraulic systems, seals, and lubricated moving metal parts on the C-27J.

CURRENT SITUATION: The MFFS aviation support has a high operational tempo, with aircraft performing multiple take-offs and landings each day increasing the need for aircraft maintenance. Currently, there are no permanent aircraft maintenance facilities at USAGYPG capable of maintaining the existing C-27J aircraft that support the MFFS. The aircraft are currently maintained in temporary fabric structures or on the apron exposed to temperature extremes over 120 degrees with blowing sand. Temperatures inside aircraft parked on the apron exceed 140 degrees, and the exterior skin exceeds 150 degrees. Lack of adequate maintenance facilities accelerates the degradation of avionics equipment, hinders maintenance operations, and interrupts the MFFS mission when aircraft are inoperable due to maintenance problems.

IMPACT IF NOT PROVIDED: Critical training courses provided by the MFFS for Special Forces service members will be degraded due to the inability to adequately support the number and type of aircraft operations required to meet the training throughput. The number of jumps per student will be reduced due to inoperable aircraft. Repair times for existing aircraft will continue to increase and aircraft will require more maintenance and need to be replaced more frequently due to exposure to extreme conditions. Significant costs in man-hours, flight hours, fuel, and temporary duty travel preclude performing the larger forecasted maintenance at Fort Bragg or by using rotating aircraft and maintenance crews. The size of these hangar bays must facilitate maintenance on the entire aircraft to ensure it is protected from the harsh desert environment, especially from extreme heat, sand, and dust while working on the avionics or fuel cells.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project will be designed and constructed in accordance with Unified Facilities Criteria, Installation Architectural Compatibility Plan, DOD criteria, Army Regulations, and applicable U.S Federal Environmental Laws and Regulations. This project will provide anti-terrorism/force protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DOD Minimum Anti-Terrorism Standards for Buildings. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process; project site is located above the 100-year flood plain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
YUMA PROVING GROUND ARIZONA	SOF HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	211	86022	49,500

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Jun 2018
(b) Percent of Design Completed as of Jan 2020:	95%
(c) Design or RFP Complete:	Jun 2020
(d) Total Design Cost ($000):	4,873
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Basis of design standard or definitive?	No
(3) Construction Data:	
(a) Contract Award:	Mar 2021
(b) Construction Start:	Jun 2021
(c) Construction Complete:	Jun 2023

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2023	2,611
Collateral Equipment	PROC, D-W	2022	979
C4I Equipment	O&M, D-W	2023	489
C4I Equipment	PROC, D-W	2022	1,142

US Army Special Operation Command
Telephone: (910) 432-1296
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE (YYYY MMDD)
DEF (USSOCOM)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT CARSON, COLORADO	U.S. ARMY SPECIAL OPERATIONS COMMAND	1.12

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20190930	218	1087	3	0	0	0	0	0	0	1308
b. END FY25	292	1473	7	0	0	0	0	0	0	1772

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	136,700
b. INVENTORY TOTAL AS OF 20190930	84,144
c. AUTHORIZATION NOT YET IN INVENTORY	75,258
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	15,600
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	40,000
f. PLANNED IN NEXT THREE PROGRAM YEARS	0
g. REMAINING DEFICIENCY	61,740
h. GRAND TOTAL	276,742

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
214	SOF TACTICAL EQUIPMENT MAINTENANCE FACILITY	1,794 SM (19,400 SF)	15,600	02/19	09/20

9. FUTURE PROJECTS

140	GROUP HEADQUARTERS EXPANSION	1,858 SM (20,000 SF)	40,000		

10. MISSION OR MAJOR FUNCTIONS

Support and training of organizations assigned to Fort Carson. Ensure the most efficient utilization of resources to operate Fort Carson and accomplish all assigned missions. Conduct mobilization operations to meet wartime requirements. Conduct operations in support of civil authorities in domestic emergencies.
Special Operations Forces: Organize, train, equip, and validate readiness of special operations forces for world-wide deployment in support of combatant commanders.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT CARSON, COLORADO	SOF TACTICAL EQUIPMENT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	214	66326	15,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				11,846
TACTICAL EQUIPMENT MAINT FAC (CC21410) (19,400 SF)	SM	1,794	3,766	(6,756)
ORGANIZATIONAL VEHICLE PARKING (CC85210) (30,500 SY)	SM	25,502	121	(3,086)
SPECIAL FOUNDATIONS	LS	--	--	(594)
BUILDING INFORMATION SYSTEMS	LS	--	--	(404)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(256)
CYBERSECURITY MEASURES	LS	--	--	(750)
SUPPORTING FACILITIES				2,210
ROADS, SIDEWALKS, AND PARKING	LS	--	--	(500)
SITE IMPROVEMENTS	LS	--	--	(815)
UTILITIES	LS	--	--	(707)
PASSIVE FORCE PROTECTION MEASURE	LS	--	--	(188)
ESTIMATED CONTRACT COST				14,056
CONTINGENCY (5%)				703
SUBTOTAL				14,759
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				841
TOTAL REQUEST				15,600
TOTAL REQUEST (ROUNDED)				15,600
EQUIPMENT FROM OTHER APPROPRIATIONS				(1,652)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a SOF Tactical Equipment Maintenance Facility (TEMF). The maintenance facility will include oil storage building, vehicle component storage building, and organizational equipment parking. The facility will provide an administration and shop control office, equipment maintenance systems office, weapons vault, shop stock listing room, repair exchange/tech support room, tool issuing/storage room, restrooms, janitorial closet, break/training/conference room, telecommunications room, utility rooms, organizational storage bays, maintenance and repair areas, fluid distribution room, and compressor room. The project shall provide a standalone prefabricated Petroleum, Oil and Lubricants/hazardous waste storage building. The equipment maintenance facilities will include bridge cranes, maintenance bays including pits and vehicle lifts, administrative space, and tool storage areas. Construction consists of concrete foundation and floor slab with metal frame structure. Built-in building systems will include fire alarm/mass notification, fire suppression, energy management control, telephone and advanced unclassified and classified communications networks, cable TV, intrusion detection, closed circuit surveillance, and electronic access control systems, and hardened protected distribution system. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT CARSON, COLORADO	SOF TACTICAL EQUIPMENT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	214	66326	15,600

and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. Supporting facilities include site preparation, utilities (electrical, water, gas, sanitary sewer, chilled water, and information systems distribution), lighting, vehicle parking, access drives, curb and gutter, sidewalks, storm drainage, landscaping, roads, and other site improvements. Building feature include special foundations required for the expansive soils at Fort Carson. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria. Access for persons with disabilities will be provided. Comprehensive interior design, design of electronic security, and audio visual services are included.

11. Requirement: 1,794 SM (19,400 SF) **Adequate:** 0 SM (0 SF) **Substandard:** 0 SM (0 SF)

PROJECT: Construct a SOF Tactical Equipment Maintenance Facility. (Current Mission)

REQUIREMENT: This project is required to provide additional maintenance facilities for the 2nd Battalion, 10th Special Force Group (Airborne). Additional maintenance facilities and vehicle parking are required to support the assigned mission and force structure. There are no existing equipment maintenance facilities available at Fort Carson to meet this requirement.

CURRENT SITUATION: Currently, the 2nd Battalion, 10th Special Forces Group (Airborne), tactical equipment maintenance is doubled up in existing 3rd Battalion maintenance facilities. This situation creates a hazardous overcrowding situation and a maintenance backlog. A new facility is required to provide consolidated, dedicated vehicle maintenance and repair facilities, as well as associated hardstand for organizational equipment parking.

IMPACT IF NOT PROVIDED: If this project is not provided, there will not be adequate facilities to support tactical equipment maintenance for the 2nd Battalion, 10th Special Forces Group (Airborne). The lack of facilities for maintenance functions will adversely affect the unit's mission effectiveness and readiness. Maintenance personnel will be doubled up in the existing vehicle maintenance space.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project will be designed and constructed in accordance with Unified Facilities Criteria, Installation Architectural Compatibility Plan, DOD criteria, Army Regulations, and applicable U.S Federal Environmental Laws and Regulations. This project will provide anti-terrorism/force protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DOD Minimum Anti-Terrorism Standards for Buildings. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process; project site is located above the 100-year flood plain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy: Design Bid Build

(2) Design Data

(a) Design or Request for Proposal (RFP) Started: Feb 2019

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		Feb 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT CARSON, COLORADO	SOF TACTICAL EQUIPMENT MAINTENANCE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	214	66326	15,600

(b) Percent of Design Completed as of Jan 2020	35%
(c) Design or RFP Complete	Sep 2020
(d) Total Design Cost ($000)	1,560
(e) Energy Study and Life Cycle Analysis Performed	Yes
(f) Basis of design standard or definitive?	Yes
(3) Construction Data:	
(a) Contract Award:	Mar 2021
(b) Construction Start:	Jun 2021
(c) Construction Complete:	Jun 2023

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2023	944
Collateral Equipment	PROC, D-W	2022	118
C4I Equipment	O&M, D-W	2023	177
C4I Equipment	PROC, D-W	2022	413

US Army Special Operation Command
Telephone: (910) 432-1296
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
HURLBURT FIELD, FLORIDA	AIR FORCE SPECIAL OPERATIONS COMMAND	0.84

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20190930	1,309	4,941	1,166	136	201	0	168	873	430	9,224
b. END FY25	1,308	5,054	1,177	136	201	0	167	879	423	9,345

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	6,341
b. INVENTORY TOTAL AS OF 20190930	3,611,031
c. AUTHORIZATION NOT YET IN INVENTORY	99,850
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	83,120
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	8,915
f. PLANNED IN NEXT THREE PROGRAM YEARS	93,204
g. REMAINING DEFICIENCY	125,400
h. GRAND TOTAL	4,021,520

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
140	SOF SPECIAL TACTICS OPERATIONS FACILITY (23 STS)	9,637 SM (103,700 SF)	44,810	04/19	03/20
113	SOF COMBAT AIRCRAFT PARKING APRON NORTH	53,243 SM (63,700 SY)	38,310	04/19	01/20

9. FUTURE PROJECTS

171	SOF HUMAN PERFORMANCE TRAINING CENTER	1,393 SM (15,500 SF)	8,915		
113	SOF PARKING APRON (AC-130J)	58,774 SM (632,700 SF)	41,304		
178	SOF SMALL ARMS RANGE	4,791 SM (51,600 SF)	30,400		
171	SOF SIMULATOR FACILITY (AC-130J)	1,923 SM (20,700 SF)	13,000		
172	SOF SIMULATOR FACILITY (MANNED ISR)	827 SM (8,900 SF)	8,500		

10. MISSION OR MAJOR FUNCTIONS

Hurlburt Field supports MC-130, AC-130, CV-22, Non-Standard Aviation (NSA), and special operations squadrons.
The 1st Special Operations Wing plans and executes specialized and contingency operations in support of national priorities. The wing's core missions include close air support, precision aerospace firepower, specialized aerospace mobility, intelligence, surveillance and reconnaissance (ISR) operations, and agile combat support.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FL	SOF SPECIAL TACTICS OPS FACILITY(23 STS)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	FTEV103005	44,810

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				30,078
OPERATIONS FACILITY (CC14145) (103,700 SF)	SM	9,637	2,988	(28,795)
CYBERSECURITY MEASURES	SM	--	--	(707)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(576)
SUPPORTING FACILITIES				10,297
UTILITIES	LS	--	--	(2,809)
SITE IMPROVEMENTS	LS	--	--	(2,689)
PAVEMENTS	LS	--	--	(2,120)
COMMUNICATION	LS	--	--	(411)
HARDSTAND	EA	--	--	(1,099)
DEMOLITION (29,000 SF)	SM	2,695	331	(892)
CONSTRUCTION SECURITY SURVEILLANCE	LS	--	--	(106)
AT/FP/PHYSICAL SECURITY MEASURES	LS	--	--	(171)

ESTIMATED CONTRACT COST				40,375
CONTINGENCY (5%)				2,019

SUBTOTAL				42,394
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,416

TOTAL REQUEST				44,810
TOTAL REQUEST (ROUNDED)				44,810
EQUIPMENT FROM OTHER APPROPRIATIONS				(3,900)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct facilities with foundation and floor slab, structural framing, insulated walls, sloped roofs, environmental control, fire detection and suppression and all necessary support. Functional areas include administrative areas (command, operations, logistics, secure planning, training, simulators, weather, intel, and mission support), team rooms, equipment, vehicle and watercraft maintenance and storage areas (individual gear cages, weapons/armory, radios, computers, dive shop, medical logistics, war readiness materials), and covered storage area. Unique features include concrete hardstand, rappelling tower and antenna platform. Includes utilities, site improvements, pavements (roadway, parking and marshalling yard), communications, passive force protection and all other necessary support. Demolition includes buildings 91032, 91033, 91037, 91065, 91070, and 99020. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low impact development features will be included in the design and construction as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FL	SOF SPECIAL TACTICS OPS FACILITY (23 STS)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	FTEV103005	44,810

11. Requirement: 34,938 SM (376,100 SF) **Adequate:** 25,301 SM (272,300 SF) **Substandard:** 840 SM (9,000 SF)

PROJECT: Construct Special Tactics Squadron (STS) Operations Facility.

REQUIREMENT: Combat controllers are among the most highly trained personnel in the U.S. military with 35 weeks of training to include air traffic control qualification, airborne, survival, combat control training, etc. Combat controllers selected for special tactics units require over a year of additional training (free fall parachuting, diving, underwater egress, small unit tactics, etc.) just for initial qualification. It is essential to properly maintain the readiness and promote continued skill growth in these personnel and to establish well equipped, well trained, and cohesive teams. To this end, squadron operations facilities need to provide space to organize, train, and equip special tactics forces to rapidly provide airmanship expertise to establish and control the air-to-ground interface in an objective area on short notice. It also provides long-range operational and logistics planning areas, and the staging capacity and capability to deploy command and control elements during special tactics force employment. Space is also required to maintain, store and issue support equipment and clothing for each squadron member along with team vehicles and boats.

CURRENT SITUATION: The current 23 STS campus is inadequate for current manpower and equipment. The campus layout does not meet AT/FP setback standards. The layout is inefficient and under-sized; causing like functions and activities to be spread across several facilities. Additional manpower and equipment will increase the unit size to 238 funded positions by FY2022. This enables the 23 STS to carry out personnel recovery, one of the three core capabilities each STS is required to provide to USSOCOM. Additionally, the location of the existing facilities is in conflict with the existing land use plan which is supposed to support aircraft operations and training as well as other industrial activities.

IMPACT IF NOT PROVIDED: If the 23 STS continues to operate from the current location, they will continue with split operations in undersized facilities with team members sharing cages, insufficient maintenance areas, and equipment left out in weather. Lack of adequate STS operations facilities will adversely impact the efficiency of home-station mission essential task list training events and the ability to rapidly provide fully trained and qualified special tactics support for worldwide deployment and the assignment to regional unified commands. The facility shortfalls also impact readiness of Special Tactics personnel and equipment negatively impacting operations in support of USSOCOM missions.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." Alternative methods of meeting this requirement have been explored during project development and this project is the most feasible option. Project is not sited in a 100-year floodplain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data	
(1) Acquisition Strategy	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started	Apr 2019
(b) Percent Complete as of January 2020	65%
(c) Design or RFP Complete:	Mar 2020

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FL	SOF SPECIAL TACTICS OPERATIONS FACILITY (23 STS)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	FTEV103005	44,810

(d) Total Design Cost ($000)	4,481
(e) Energy Study and Life Cycle Analysis Performed	No
(f) Standard or definitive design used?	No
(3) Construction Data	
(a) Contract Award	Jan 2021
(b) Construction Start	Apr 2021
(c) Construction Complete	Jan 2023

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2023	2,600
Collateral Equipment	PROC, D-W	2023	400
C4I Equipment	O&M, D-W	2023	900

Air Force Special Operations
Command Telephone: (850) 884-2371
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FLORIDA	SOF COMBAT AIRCRAFT PARKING APRON NORTH

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	113	FTEV153011	38,310

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				17,445
APRON (CC11332) (63,700 SY)	SM	53,243	321	(17,091)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(354)
SUPPORTING FACILITIES				17,073
UTILITIES	LS	--	--	(1,570)
SITE IMPROVEMENTS	LS	--	--	(585)
COMMUNICATION	LS	--	--	(122)
STORM WATER POND	LS	--	--	(775)
SPECIAL SITE CONDITIONS	LS	--	--	(13,683)
AT/FP/PHYSICAL SECURITY MEASURES	LS	--	--	(338)

ESTIMATED CONTRACT COST				34,518
CONTINGENCY (5%)				1,726

SUBTOTAL				36,244
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,066

TOTAL REQUEST				38,310
TOTAL REQUEST (ROUNDED)				38,310
EQUIPMENT FROM OTHER APPROPRIATIONS				(72)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a combat aircraft parking area (CAPA) consisting of airfield apron along with all associated shoulders and taxiways. Work includes excavation, back fill and base material, airfield pavement, airfield lighting, grounding, mooring, and marking. Supporting facilities include utilities, utility sleeves under pavement, site improvements, communications, dewatering, storm water drainage pond, wetland remediation, and all necessary support. Special site conditions include dewatering well points, removal of muck and replacement with compacted suitable fill. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings.

11. Requirement: 820,271 SM (981,100 SY) **Adequate:** 767,028 SM (917,400 SY) **Substandard:** 0 SM (0 SY)
PROJECT: Construct a Combat Aircraft Parking Apron (CAPA).
REQUIREMENT: This project constructs a CAPA capable of supporting munitions loaded aircraft. New weapons loading requirements drive an additional parking apron that is sited for the Net Explosive Weight/ Quantity Distance (NEW/QD) associated with new munitions to be used by the AFSOC fleet of aircraft to include gunship recapitalization and growth of the fleet by FY25.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FLORIDA	SOF COMBAT AIRCRAFT PARKING APRON NORTH

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	113	FTEV153011	38,310

CURRENT SITUATION: Current airfield parking ramp prohibits the loading of any 1.1 Hazard Class munitions and each parking spot is limited to a maximum of 195 NEW/QD. The legacy AC-130U gunships are loaded with 1.1 Hazard Class munitions while enroute to the end of runway where they temporarily park at the Hot Cargo Pad. AC-130U munitions loading takes only about 20 minutes. New AC-130J gunships higher NEW/QD munitions require the aircraft maintainers to upload before the crew shows to the aircraft, and depending on the required configurations can take up to 5 hours to complete a single load. The NEW/QD arc ratings for the new munitions configurations are such that, once combined, they quickly exceed the limit, which greatly restricts the load configurations and parking spots that can be used on the current ramp. The only available alternative will be to use the Hot Cargo pad for most gunship loading operations. The current Hot Cargo pad is limited in gunship capacity depending on the load configuration (minimum of 2, maximum of 4), if used in this manner will not meet intended mission tasking. Additionally, the remaining available AC-130J capable non-CAPA parking spots are spread out over nearly a 1.5-mile span from the current Aircraft Maintenance Unit (AMU) facility. Sortie generation is negatively impacted due to delays caused by excessive travel time to and from the AMU both by personnel and towing of aircraft. This small number of parking spots combined with the increased length of time it takes to load the aircraft is inadequate to support both the Concept of Operation Plan (CONPLAN) and regular training operations. This project is timed to support end state requirements based on aircraft recapitalization.

IMPACT IF NOT PROVIDED: 1st Special Operations Wing will be limited in ability to load AC-130J gunships with their new primary munitions which will result in lowered combat readiness due to increased non-mission capable rates, reduced overall aircrew training effectiveness, and increased risk to meeting CONPLAN requirements.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and the criteria/scope for CAPA parking apron specified in the AFSOC unique standard facilities requirements guidance to AFMAN 32-1084 (“AFSOC Facilities Requirements Document”). Alternative methods of meeting this requirement have been explored during project development and this project is the most feasible option. Project is sited in a 100-year floodplain; mitigation measures will be incorporated in the project.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. SUPPLEMENTAL DATA:

A. Estimated Execution Data	
(1) Acquisition Strategy	Design-Bid-Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started	Apr 2019
(b) Percent Complete as of January 2020	100%
(c) Design or RFP Complete:	Jan 2020
(d) Total Design Cost ($000)	3,831
(e) Energy Study and Life Cycle Analysis Performed	No
(f) Standard or definitive design used?	No
(3) Construction Data	

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
HURLBURT FIELD, FLORIDA	SOF COMBAT AIRCRAFT PARKING APRON NORTH

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	113	FTEV153011	38,310

(a) Contract Award	Jan 2021
(b) Construction Start	Apr 2021
(c) Construction Complete	Jan 2023

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
C4I Equipment	O&M, D-W	2023	72

Air Force Special Operations Command
Telephone: (850) 884-2371
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT BRAGG, NORTH CAROLINA	JOINT SPECIAL OPERATIONS COMMAND	0.89

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20190930	373	839	701	0	0	0	0	0	0	1913
b. END FY25	403	983	760	0	0	0	0	0	0	2146

a. TOTAL ACREAGE (acre)	399
b. INVENTORY TOTAL AS OF 20190930	311,321
c. AUTHORIZATION NOT YET IN INVENTORY	120,397
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	60,700
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	17,300
f. PLANNED IN NEXT THREE PROGRAM YEARS	36,600
g. REMAINING DEFICIENCY	321,400
h. GRAND TOTAL	867,718

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
141	SOF OPERATIONS FACILITY	5,390 SM (58,000 SF)	43,000	03/2019	12/2020
140	SOF MILITARY WORKING DOG FACILITY	2,165 SM (23,308 SF)	17,700	03/2019	08/2020

9. FUTURE PROJECTS

442	SOF ARMS ROOM ADDITION	975 SM (10,500 SF)	4,500		
141	SOF OPERATIONS BUILDING	1,700 SM (18,300 SF)	12,800		
178	SOF BAFFLE CONTAINMENT FOR RANGE 19C	2,787 SM (30,000 SF)	7,100		
178	SOF CLOSE QUARTERS COMBAT RANGE	2,973 SM (32,000 SF)	7,200		
442	SOF DEPLOYMENT FACILITY	2,787 SM (30,000 SF)	9,000		
171	SOF SERE TRAINING FACILITY	975 SM (10,500 SF)	13,300		

10. MISSION OR MAJOR FUNCTIONS

The Joint Special Operations Command is a joint headquarters designed to study special operations requirements and techniques; ensure operability and equipment standardization; plan and conduct special operations exercises and training; and develop joint special operations tactics.

Fort Bragg Installation's mission is supporting and training of 18th Airborne Corps, major combat and combat support forces, special operations forces, reserve component training, and other tenant and satellite activities and units.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF MILITARY WORKING DOG FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	140	72426	17,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				12,633
KENNEL FACILITIES (CC 14126) (23,300 SF)	SM	2165	5,748	(12,444)
CYBERSECURITY MEASURES	LS	--	--	(45)
SUSTAINABILITY/ENERGY MEASURES	LS	--	--	(144)
SUPPORTING FACILITIES				3,332
ELECTRIC SERVICE	LS	--	--	(185)
WATER, SEWER, GAS	LS	--	--	(964)
PAVING, WALKS, CURBS AND GUTTERS	LS	--	--	(206)
STORM DRAINAGE	LS	--	--	(233)
SITE IMP (697) DEMO (109)	LS	--	--	(806)
INFORMATION SYSTEMS	LS	--	--	(120)
STANBY GENERATOR 300 kW	EA	1	564,000	(564)
ANTI-TERRORISM/FORCE PROTECTION	LS	--	--	(254)
ESTIMATED CONTRACT COST				15,965
CONTINGENCY (5%)				798

SUBTOTAL				16,763
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				955

TOTAL REQUEST				17,718
TOTAL REQUEST (ROUNDED)				17,700
EQUIPMENT FROM OTHER APPROPRIATIONS				(1,085)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a Military Working Dog (MWD) Kennel at Fort Bragg, NC. The project includes 48 kennels, a veterinary clinic, surgery rooms, educational spaces, including a classroom, and an administrative area including office space for permanent party cadre. The veterinary clinic includes three distinct areas: surgical space, radiological space, and a pharmacy. The facility will house a total of 48 kennels, which will include: 42 standard kennels and 6 kennels used for isolation of the military working dogs. An existing obstacle course and exercise yard will be shared to serve this project's mission. The kennels, isolation kennels, veterinary clinic, and administrative space will require dedicated HVAC units. Sound suppression will be provided in the kennel areas. Organizational parking will require six spaces for a truck and trailer as well as eight spaces for a training fleet of sedans and/or sport utility vehicles. Non-organizational parking will require 15 spaces. Provide fire suppression, fire alarm, mass notification, and security measures. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current Department of Defense (DoD) criteria. Install cybersecurity measures including identity assurance of and operational resilience to fire life safety systems, building automation systems, and electronic access control systems, integrated commercial intrusion detection security systems, cable TV, a protected distribution system, and connection to the energy management control system. Provide sustainability/energy measures and building information systems. Access for individuals with disabilities will be provided. Furnishings and

1. COMPONENT. USSOCOM	**FY 2021 MILITARY CONSTRUCTION PROJECT DATA** *(Continuation)*	2. DATE (YYYYMMDD) FEB 2020	REPORT CONTROL SYMBOL DD-A&T(A)1610
3. INSTALLATION AND LOCATION FORT BRAGG, NORTH CAROLINA		4. PROJECT TITLE: SOF MILITARY WORKING DOG FACILITY	
5. PROGRAM ELEMENT 1140415BB	6. CATEGORY CODE 141	7. PROJECT NUMBER 72426	8. PROJECT COST ($000) 17,700

equipment, comprehensive interior design, electronic security systems, and audio visual services are included. DoD principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Demolish 2 modular buildings (312 Total SM). Facilities will be designed to a minimum life of 40 years in accordance with applicable DoD's Unified Facilities Criteria, including energy efficiencies, building envelope, and integrated building systems performance.

11. Requirement: 2,890 SM (31,100 SF) **Adequate:** 725 SM (7,800 SF) **Substandard:** 330 SM (3,550 SF)

PROJECT: Construct a MWD Kennel to include a veterinary clinic, educational spaces, and administrative spaces. (Current Mission)

REQUIREMENT: This project is required to provide adequate working space to support the MWD missions and activities. Additional requirements including a veterinary clinic with 48 kennels, education spaces to train MWD handlers, and administrative space which will include office space for 15 Permanent Party Cadre. Dedicated space is required for assigned veterinarian to conduct exams, surgeries and administer medication to the dogs.

CURRENT SITUATION: Currently, the MWD section operates in temporary, semi-permanent, and permanent structures at Fort Bragg, NC. The existing structures are not sufficient in size to support mission requirements. The section is severely hindered in supporting its mission planning given the current conditions. Organizational effectiveness, operational efficiency, and increased risk to security violations adversely impacts mission planning. The section is severely hindered by continued use of substandard and poorly configured buildings. The loading/unloading area is insufficient for deliveries and vehicular movement is impaired throughout the MWD complex.

IMPACT IF NOT PROVIDED: If this project is not provided, the unit will not be able to fully support mission requirements. Personnel will continue to work in facilities that are not designed to enable operational readiness, handler training, and logistical support. The existing kennel is undersized and not capable of safely housing the number of MWD necessary to meet mission requirements. Continued use of undersized facilities reduces productivity, enables unsafe conditions for handlers and MWD, and inhibits the section's ability to support their training and operational mission.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. This project has been coordinated with the installation's physical security plan and all physical security measures are included. The project will provide anti-terrorism/force protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development and construction of the project and will follow the guidance detailed in the Army Sustainable Design and Development Policy - complying with applicable laws and executive orders. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process. Project's site is located above the 100-year flood plain.

JOINT USE CERTIFICATION: USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF MILITARY WORKING DOG FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	72426	17,700

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Mar 2019
(b) Percent of Design Completed as of Jan 2020	35%
(c) Design or RFP Complete:	Aug 2020
(d) Total Design Cost ($000):	1,000
(e) Energy Study and/or Life Cycle Analysis performed:	NO
(f) Standard or definitive design used:	NO
(3) Construction Data	
(a) Contract Award:	Mar 2021
(b) Construction Start:	Jun 2021
(c) Construction Complete:	Dec 2022

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2022	260
C4I Equipment	PROC, D-W	2022	825

Joint Special Operations Command
Telephone: (910) 243-0550
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	88658	43,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				28,431
OPERATIONS FACILITY (CC 14125) (57,800 SF)	SM	5,352	4,926	(26,364)
POL STORAGE BLDG - CLIMATE CONTROL (CC21470) (200 SF)	SM	19	9,742	(185)
IDS INSTALLATION	LS	--	--	(252)
EMCS CONNECTION	LS	--	-	(171)
CYBERSECURITY MEASURES	LS	--	--	(1,228)
SUSTAINABILITY/ENERGY MEASURES	LS	--	--	(231)
SUPPORTING FACILITIES				10,356
ELECTRIC SERVICE	LS	--	--	(721)
WATER, SEWER, GAS	LS	--	--	(610)
PAVING, WALKS, CURBS AND GUTTERS	LS	--	--	(1,766)
STORM DRAINAGE	LS	--	--	(825)
SITE IMP (1,558) DEMO (2,288)	LS	--	--	(3,163)
STANDBY GENERATOR 500 KW	EA	1	475,000	(475)
INFORMATION SYSTEMS	LS	--	--	(369)
ANTI-TERRORISM AND FORCE PROTECTION	LS	--	--	(527)
CONSTRUCTION SECURITY SURVEEELLANCE	LS	--	--	(1,900)
ESTIMATED CONTRACT COST				38,787
CONTINGENCY (5%)				1,939

SUBTOTAL				40,726
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,321

TOTAL REQUEST				43,047
TOTAL REQUEST (ROUNDED)				43,000
EQUIPMENT FROM OTHER APPROPRIATIONS				(10,955)

10. DESCRIPTION OF PROPOSED CONSTRUCION:

This Operations Facility includes administrative, mission planning areas, vehicle bays, climate controlled pallet storage with lift, Petroleum, Oil and Lubricants storage, arms vaults, individual unit caged storage, engineering workshops, latrines with lockers, and laundry. Also includes space for a Secure Compartmentalized Information Facility with administrative area, 50-person classroom, operations center, and Special Access Programs. Project will also provide fire alarm/mass notification, fire suppression system, telephone and advanced unclassified and classified communications networks, intercom system, closed circuit surveillance and electronic access control systems, integrated commercial intrusion detection system, cable TV, a protected distribution system, and connection to the energy management control system. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	88658	43,000

Low Impact Development features will be included in the design and construction as appropriate. Supporting facilities include site development, utilities and connections, lighting, lightning protection system, walks, curbs and gutters, vehicle parking, access road, bus access area, storm drainage, landscaping, fencing and other site improvements. Utility connections require long runs to the remote project site. Heating and air conditioning will be provided by self-contained systems. Measures in accordance with the DoD Minimum Antiterrorism for Buildings standards will be provided. Facilities will be designed to a minimum life of 40 years in accordance with applicable Unified Facilities Code criteria including energy efficiencies, building envelope and integrated building systems performance. Comprehensive building and furnishings related interior design services are required. Electronic security systems and audio visual services are included. Cybersecurity measures will be incorporated into this project. Sustainability/Energy measures will be provided. Access for persons with disabilities will be provided. The project includes demolition and disposal of Building O190U and O1942.

11. Requirement: 5,352 SM (57,615 SF) **Adequate:** 0 SM (0 SF) **Substandard:** 3,771 SM (40,592 SF)

PROJECT: Construct an Operations Facility (Current Mission).

REQUIREMENT: Adequate facilities are required to accommodate group operations for the user. Engineering and testing space is required due to the technical mission which cannot be accommodated with the facilities' current mechanical and electrical systems. Consolidation of the mission into one facility greatly enhances the organization's ability to align and facilitate mission operations and increases work efficiencies.

CURRENT SITUATION: The user is currently located in five separate facilities creating substantial operational inefficiencies and a severe lack of adequate space. Dispersed work groups, inadequate storage, separated shop spaces, and temporary facilities diminish the operational capacity of the organization, inhibits growth, and increases maintenance and operational costs. Additionally, the lack of climate control features and storm water intrusion into existing facilities has resulted in severe damage to sensitive electronic equipment.

IMPACT IF NOT PROVIDED: If this project is not provided, the unit will not be able to fully support mission requirements. No current facilities exist that would allow for the complete consolidation of the unit's personnel and equipment. The user will remain severely hindered in their ability to conduct planning, operations, and training needed to optimize the unit's capability to meet urgent national security missions. The existing infrastructure does not support modern data, information systems, and work flow. Organizational effectiveness, operational efficiency, and unit morale will risk degradation by continued use of substandard and poorly configured facilities.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project will be designed and constructed in accordance with Unified Facilities Criteria, DoD criteria, Installation Architectural Compatibility Plan, Army Regulations, and applicable U.S Federal Environmental Laws and Regulations. Secure spaces will be designed and built in conformance with UFC 4-010-05 (Compartmented Information Facilities Planning, Design, and Construction) and ICD/ICS 705. Antiterrorism/force protection measures will be included in accordance with current DoD criteria. The project's site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process; project site is located above the 100-year flood plain.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	141	88658	43,000

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Mar 2019
(b) Percent of Design Completed as of Jan 2020	65%
(c) Design or RFP Complete:	Dec 2020
(d) Total Design Cost ($000):	4,000
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Standard or definitive design used:	No
(3) Construction Data	
(a) Contract Award:	Mar 2021
(b) Construction Start:	Jun 2021
(c) Construction Complete:	Dec 2022

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
C4I Equipment	PROC, D-W	2023	5,130
Collateral Equipment	O&M, D-W	2023	5,825
SCIF Const. Admin	O&M, D-W	2022	1,899

Joint Special Operations Command
Telephone: (910) 243-0550
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE *(YYYY MMDD)*
DEF (USSOCOM)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
FORT BRAGG, NORTH CAROLINA	U.S. ARMY SPECIAL OPERATIONS COMMAND	0.88

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 20190930	1820	7792	1354	2304	11832	24	0	0	0	25126
b. END FY25	1819	7796	685	2840	12329	24	0	0	0	25493

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	162,029
b. INVENTORY TOTAL AS OF 20190930	941,974
c. AUTHORIZATION NOT YET IN INVENTORY	285,449
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	53,100
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	167,350
g. REMAINING DEFICIENCY	718,940
h. GRAND TOTAL	2,166,813

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
140	SOF GROUP HEADQUARTERS	8,920 SM (96,000 SF)	53,100	05/18	03/20

9. FUTURE PROJECTS

153	SOF SUPPLY SUPPORT ACTIVITY	3,252 SM (35,000 SF)	6,400		
214	SOF TACTICAL EQUIPMENT MAINTENANCE FACILITY	3,500 SM (37,700 SF)	20,000		
179	SOF FOB FREEDOM UPGRADES	5,270 SM (56,700 SF)	11,000		
140	SOF BATTALION OPERATIONS FACILITY	11,520 SM (124,000 SF)	41,000		
310	SOF RESEARCH ANALYTIC CENTER	892 SM (9,600 SF)	7,500		
140	SOF MI BATTALION OPERATIONS FACILITY	6225 SM (67,000 SF)	21,000		
140	SOF MACKALL COMPANY OPERATIONS FACILITY	786 SM (8,640 SF)	4,350		
140	SOF JOINT INTELLIGENCE CENTER	10,746 SM (116,000 SF)	56,100		

10. MISSION OR MAJOR FUNCTIONS

Support and training of 18th Airborne Corps (Airborne), major combat and combat support forces, special operations forces, reserve component training, and other tenant and satellite activities and units.
Special Operations Forces: organize, train, equip, and validate readiness of special operations forces for world-wide deployment in support of combatant commanders.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF GROUP HEADQUARTERS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	87437	53,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				37,941
GROUP HEADQUARTERS(CC14182)(96,000 SF)	SM	8,920	3,799	(33,887)
BUILDING INFORMATION SYSTEMS	LS	--	--	(2,458)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(846)
CYBERSECURITY MEASURES	LS	--	--	(750)
SUPPORTING FACILITIES				9,904
UTILITIES	LS	--	--	(2,295)
SITE IMPROVEMENTS AND DEMOLITION(29,009SF)	LS	--	--	(4,522)
ROADS, SIDEWALKS AND PARKING	LS	--	--	(2,441)
PASSIVE FORCE PROTECTION MEASURES	LS	--	--	(146)
CONSTRUCTION SECURITY SURVEILLANCE	LS	--	--	(500)

ESTIMATED CONTRACT COST				47,845
CONTINGENCY (5%)				2,392

SUBTOTAL				50,237
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,863

TOTAL REQUEST				53,100
TOTAL REQUEST (ROUNDED)				53,100
EQUIPMENT FROM OTHER APPROPRIATIONS				(6,720)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a SOF Group Headquarters Facility that includes administrative space, conference rooms, classrooms, sensitive compartmented information facility, group operations center, logistics network operation center, headquarters company, arms room vault, secure storage, unit storage, lockers, toilets, showers, and required mechanical, electrical and communication rooms. Construction consists of concrete foundation and floor slab with metal frame structure. Built-in building systems will include fire alarm/mass notification, fire suppression, energy management control, telephone and advanced unclassified and classified communications networks, cable TV, intrusion detection, closed circuit surveillance, and electronic access control systems, and a hardened protected distribution system. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of this project as appropriate. Supporting facilities include site preparation, utilities (electrical, water, gas, sanitary sewer, chilled water, and information systems distribution), lighting, vehicle parking, access drives, curb and gutter, sidewalks, storm drainage, landscaping, roads, demolition of buildings E4325 (13,682 SF) and D1209 (15,327 SF), and other site improvements. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria. Access for persons with disabilities will be provided. Comprehensive interior design and audio visual services are included.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF GROUP HEADQUARTERS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	87437	53,100

11. Requirement: 8,920 SM (96,000 SF) **Adequate:** 0 SM **Substandard:** 3,720 SM (40,000 SF)

PROJECT: Construct a SOF Group Headquarters Facility. (Current Mission)

REQUIREMENT: This project is required to provide the 3rd Special Forces Group (Airborne) with a permanent and efficient group headquarters facility. Special Forces conduct missions and activities throughout the full range of military operations and in all environments, and provide the National Command Authority and theater commanders a means to resolve crises, achieve U.S. objectives and pursue U.S. strategic goals. This project is required to provide a command and control facility for the assigned forces and serves as a nucleus for a joint special operations task force or the headquarters of an Army special operations task force. The Special Forces Group Support Company provides intelligence, signals, and combat service support. Additionally, this project supports language sustainment training and will allow Special Forces soldiers to maintain these core competencies at a high level of effectiveness.

CURRENT SITUATION: The 3rd Special Forces Group (Airborne) has grown in personnel and equipment. The current facilities do not support this growth. This project will complete the deficit solution requirement and eliminate headquarters geographic separation from subordinate units.

IMPACT IF NOT PROVIDED: If this project is not provided, the existing headquarters facility will continue to be separated from the rest of the unit and will continue to be inadequate for the current needs and growth the unit has experienced and continues to experience. The continued use of the existing facility has the potential to jeopardize unit integrity through the lack of space and consolidation needed to accomplish the mission.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project will be designed and constructed in accordance with Unified Facilities Criteria, Installation Architectural Compatibility Plan, DoD criteria, Army Regulations, and applicable U.S Federal Environmental Laws and Regulations. This project will provide anti-terrorism/force protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process; project site is located above the 100-year flood plain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data

(1) Acquisition Strategy:	Design Bid Build
(2) Design Data	
(a) Design or Request for Proposal (Design) Started:	May 2018
(b) Percent of Design Completed as of Jan 2020:	95%
(c) Design or RFP Complete:	Mar 2020
(d) Total Design Cost ($000):	5,300
(e) Energy Study and/or Life Cycle Analysis performed:	Yes
(f) Basis of design standard or definitive?	Yes

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
FORT BRAGG, NORTH CAROLINA	SOF GROUP HEADQUARTERS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	140	87437	53,100

(3) Construction Data

(a) Contract Award: Jan 2021

(b) Construction Start: Apr 2021

(c) Construction Complete: Apr 2023

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2023	3,840
Collateral Equipment	PROC, D-W	2022	480
C4I Equipment	O&M, D-W	2023	720
C4I Equipment	PROC, D-W	2022	1,680

US Army Special Operation Command
Telephone: (910) 432-1296
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROGRAM	2. DATE (YYYY MMDD)
DEF (USSOCOM)		FEB 2020

3. INSTALLATION AND LOCATION	4. COMMAND	5. AREA CONTRUCTION COST INDEX
JOINT EXPEDITIONARY BASE LITTLE CREEK – FORT STORY, VIRGINIA	NAVAL SPECIAL WARFARE COMMAND	.95

6. PERSONNEL	(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
b. AS OF 20190930	474	2690	221	0	0	0	0	0	0	3385
b. END FY25	516	2996	234	0	0	0	0	0	0	3746

7. INVENTORY DATA *($000)*

a. TOTAL ACREAGE (acre)	200
b. INVENTORY TOTAL AS OF 20190930	308,624
c. AUTHORIZATION NOT YET IN INVENTORY	69,800
d. AUTHORIZATION REQUESTED IN THIS PROGRAM	112,500
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
f. PLANNED IN NEXT THREE PROGRAM YEARS	53,600
g. REMAINING DEFICIENCY	203,970
h. GRAND TOTAL	748,494

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
143	SOF DCS OPERATIONS FACILITY AND COMMAND CENTER	6,131 SM (66,000 SF)	54,500	11/2018	08/2019
143	SOF NSWG2 NSWTG CS/CSS FACILITY	10,219 SM (110,000 SF)	58,000	11/2018	08/2019

9. FUTURE PROJECTS

171	SOF HUMAN PERFORMANCE TRAINING CENTER	3,716 SM (40,000 SF)	23,200		
171	SOF TRADET TWO OPERATIONS FACILITY	4,459 SM (48,000 SF)	25,900		
151	SOF NSWG4 FINGER PIERS	149 SM (1,600 SF)	4,500		

10. MISSION OR MAJOR FUNCTIONS

The mission of Joint Expeditionary Base Little Creek-Fort Story is to provide premier support and services to our resident commands and our military and civilian personnel and their families in order to enable our warfighting forces to execute their assigned missions.

The mission of Naval Special Warfare Command is to organize, man, train, equip, educate, sustain, maintain combat readiness and deploy Naval Special Warfare Forces to accomplish Special Operations Missions.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. Air Pollution	0
B. Water Pollution	0
C. Occupational Safety and Health	0

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY, VIRGINIA	SOF DCS OPERATIONS FACILITY AND COMMAND CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P907	54,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				38,967
DRY COMBAT SUBMERSIBLE OPERATIONS FACILITY AND COMMAND CENTER (CC 14341) (66,000 SF)	SM	6,131	5,732	(35,143)
ANTI-TERRORSIM/FORCE PROTECTION	LS	--	--	(370)
BUILT IN EQUIPMENT	LS	--	--	(2,500)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS	--	--	(250)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(354)
CYBERSECURITY MEASTURES	LS	--	--	(350)
SUPPORTING FACILITIES				8,433
UTILITIES	LS	--	--	(1,800)
SITE PREPARATION	LS	--	--	(1,640)
ROADS, SIDEWALKS AND PARKING	LS	--	--	(1,723)
SITE IMPROVEMENTS	LS	--	--	(1,780)
SPECIAL FOUNDATION FEATURES	LS	--	--	(1,490)
ESTIMATED CONTRACT COST				47,400
CONTINGENCY (5%)				2,370

SUBTOTAL				49,770
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				2,837
SUBTOTAL				52,607
DESIGN/BUILD - DESIGN COST (4%)				1,896

TOTAL REQUEST				54,503
TOTAL REQUEST (ROUNDED)				54,500
EQUIPMENT FROM OTHER APPROPRIATIONS				(5,250)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Constructs a Dry Combat Submersible (DCS) operations facility and command center to support Naval Special Warfare Group (NSWG) THREE. The facility will support a variety of functions including administrative, operational gear storage, applied instruction, and undersea vehicle test and evaluation and maintenance. Construction consists of a Pre-Engineered Metal Building with pile foundation, and a standing seam metal roof. Project includes the necessary infrastructure to support the Physical Security Equipment. Built-in equipment includes a 50 ton overhead bridge crane and dive air system. Project includes all pertinent site preparations and site improvements, mechanical and electrical utilities, telecommunications, emergency generator, landscaping, irrigation, drainage, parking and exterior lighting. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and Executive Orders. Low Impact Development features will be included in the design and construction of

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY, VIRGINIA	SOF DCS OPERATIONS FACILITY AND COMMAND CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P907	54,500

this project as appropriate. This project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 6,131 SM (66,000 SF) **Adequate:** 0 SM **Substandard:** 0 SM

PROJECT: Constructs a DCS operations facility and command center for NSWG THREE.

REQUIREMENT: NSWG THREE, as the undersea lead of Naval Special Warfare (NSW) and the United States Special Operations Command (USSOCOM), mans, trains, equips, deploys, sustains and provides command and control of NSW forces by conducting full spectrum undersea and maritime special operations and activities world-wide in support of Combatant Commanders. The DCS vessels will be based at Joint Expeditionary Base Little Creek-Fort Story.

CURRENT SITUATION: NSWG THREE is required to store and maintain DCS at Joint Expeditionary Base Little Creek-Fort Story. An existing sand blasting facility, Building CB-125, has been utilized on a temporary basis to perform initial test and evaluation of the Engineering Design Model (EDM) and will be utilized through FY24 with an agreement with the host installation to store and maintain DCS as they arrive. Building CB-125 is undersized, poorly configured and has structural deficiencies.

IMPACT IF NOT PROVIDED: If this project is not provided, NSWG THREE will be unable to accommodate the DCS program at Joint Expeditionary Base Little Creek-Fort Story. Direct negative impact to the DCS program without this unique undersea vehicle operations facility.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project is in compliance with current seismic requirements. Flood vulnerability determination for NSW Command projects has been accomplished by Joint Expeditionary Base Little Creek-Fort Story and is part of the project planning process. Project is not sited in the 100 year floodplain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	Nov 2018
(b) Percent of Design Completed as of Jan 2020:	35%
(c) Design or RFP Complete:	Aug 2020
(d) Total Design Cost ($000):	5,450
(e) Energy Study and/or Life Cycle Analysis Performed:	No
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	
(a) Contract Award:	Mar 2021
(b) Construction Start:	Jun 2021
(C) Construction Complete:	Jun 2023

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY, VIRGINIA	SOF DRY COMBAT SUBMERSIBLE OPERATIONS FACILITY AND COMMAND CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P907	54,500

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2022	2,750
C4I Equipment	O&M, D-W	2022	1,500
Collateral Equipment	PROC, D-W	2022	600
C4I Equipment	PROC, D-W	2022	400

Naval special Warfare Command
Telephone: (619) 537-1050
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY, VIRGINIA	SOF NSWG2 NSWTG COMBAT SERVICE SUPPORT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P997	58,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				42,542
COMBAT SERVICE SUPPORT FACILITY (CC 14341) (110,000 SF)	SM	10,219	4,065	(41,540)
ANTI-TERRORISM/FORCE PROTECTION	LS	--	--	(302)
OPERATION AND MAINTENANCE SUPPORT INFO (OMSI)	LS	--	--	(200)
SUSTAINABILITY AND ENERGY FEATURES	LS	--	--	(250)
CYBERSECURITY MEASURES	LS	--	--	(250)
SUPPORTING FACILITIES				7,901
UTILITIES	LS	--	--	(1,850)
SITE PREPARATION	LS	--	--	(1,725)
ROADS, SIDEWALKS AND PARKING	LS	--	--	(1,500)
SITE IMPROVEMENTS	LS	--	--	(2,000)
DEMOLITION (36,500 SF)	SM	3,391	244	(826)
ESTIMATED CONTRACT COST				50,443
CONTINGENCY (5%)				2,522

SUBTOTAL				52,965
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				3,019

SUBTOTAL				55,984
DESIGN/BUILD - DESIGN COST (4%)				2,018

TOTAL REQUEST				58,002
TOTAL REQUEST (ROUNDED)				58,000
EQUIPMENT FROM OTHER APPROPRIATIONS				(6,475)

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Constructs combat service support facilities for Naval Special Warfare Group (NSWG) TWO Logistics Support Unit (LOGSU) TWO. Demolish Buildings 3859, 3807, 3897, and 772 approximately 3,391 SM (36,500 SF). The facility will support a variety of functions including administrative, operational gear storage, Tactical Ground Mobility vehicle storage and maintenance, Civil Engineering Support Equipment vehicle storage and maintenance, Small Craft Engineering storage and maintenance, ordnance handling and packing as well as weapons storage. Construction consists of Pre-Engineered Metal Buildings with pile foundation and a standing seam metal roof. Project includes the necessary infrastructure to support the Physical Security Equipment. Project includes all pertinent site preparations and site improvements, mechanical and electrical utilities, telecommunications, emergency generator, landscaping, irrigation, drainage, parking and exterior lighting. Department of Defense (DoD) principles for high performance and sustainable building requirements will be included in the design and construction of the project in accordance with federal laws and executive orders.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY, VIRGINIA	SOF NSWG2 NSWTG COMBAT SERVICE SUPPORT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P997	58,000

Low Impact Development features will be included in the design and construction of this project as appropriate. Project will provide Anti-Terrorism/Force Protection (AT/FP) features and comply with AT/FP regulations and physical security mitigation in accordance with DoD Minimum Anti-Terrorism Standards for Buildings. Appropriate cybersecurity measures will be applied to the facility-related control systems in accordance with current DoD criteria.

11. Requirement: 10,219 SM (110,000 SF) **Adequate:** 0 SM **Substandard:** 3,391 SM (36,500 SF)

PROJECT: Constructs combat service support facilities for NSWG TWO LOGSU TWO.

REQUIREMENT: NSWG TWO is responsible to man, train, equip, deploy and maintain East Coast SEAL Teams to meet the exercise, contingency, and wartime requirements in support of Regional Combatant Commanders, Theatre Special Operations Commands and numbered fleets around the world. In addition, LOGSU TWO supports NSWGs THREE, FOUR, TEN and ELEVEN at Joint Expeditionary Base Little Creek-Fort Story. Requirement and project are directly tied to Force Structure Growth with 325 Combat Service/Combat Service Support enablers.

CURRENT SITUATION: NSWG TWO requires additional space to maintain and service tactical and support vehicles and small craft. Addition of individual weapons, sniper suites and optics requires a larger armory.

IMPACT IF NOT PROVIDED: Direct negative impacts to logistical support for all NSW Echelon III Commands at Joint Expeditionary Base Little Creek-Fort Story.

ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development and this project is the only feasible option. This project is in compliance with current seismic requirements. Flood vulnerability determination for NSW Command projects has been accomplished by Joint Expeditionary Base Little Creek-Fort Story and is part of the project planning process. Project is not sited in the 100-year flood plain.

JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data:

(1) Acquisition Strategy:	Design Build
(2) Design Data:	
(a) Design or Request for Proposal (RFP) Started:	Nov 2018
(b) Percent of Design Completed as of Jan 2020:	35%
(c) Design or RFP Complete:	Aug 2020
(d) Total Design Cost ($000):	5,800
(e) Energy Study and/or Life Cycle Analysis Performed:	No
(f) Standard or Definitive Design Used:	No
(3) Construction Data:	
(a) Contract Award:	Mar 2021
(b) Construction Start:	Jun 2021
(c) Construction Complete:	Jun 2023

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
JOINT EXPEDITIONARY BASE LITTLE CREEK-FORT STORY, VIRGINIA	SOF NSWG2 NSWTG COMBAT SERVICE SUPPORT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140494BB	143	P997	58,000

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
Collateral Equipment	O&M, D-W	2022	3,500
C4I Equipment	O&M, D-W	2022	1,500
Collateral Equipment	PROC, D-W	2022	975
C4I Equipment	PROC, D-W	2022	500

Naval Special Warfare Command
Telephone: (619) 537-1050
This Headquarters has reviewed and validated the accuracy of the project justification.

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
CONUS UNSPECIFIED	TRAINING TARGET STRUCTURE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	171	81890	14,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITIES				11,129
TRAINING TARGET STRUCTURE (CC 17138) (19,200 SF)	SM	1,784	6,238	(11,129)
SUPPORTING FACILITIES				1,837
ELECTRIC SERVICE	LS	--	--	(412)
WATER, SEWER, GAS	LS	--	--	(185)
PAVING, WALKS, CURBS, GUTTER	LS	--	--	(65)
STORM DRAINAGE	LS	--	--	(185)
SITE IMPROVEMENT & DEMOLITION	LS	--	--	(615)
INFORMATION SYSTEMS	LS	--	--	(375)
ESTIMATED CONTRACT COST				12,966
CONTINGENCY (5%)				648

SUBTOTAL				13,614
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				776

TOTAL REQUEST				14,390
TOTAL REQUEST (ROUNDED)				14,400
EQUIPMENT FROM OTHER APPROPRIATIONS				(600)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Constructs a Training Target Structure for specialized sustainment training to defeat complex, hardened facility targets. No current facility exists to provide this necessary training. Structure will provide infrastructure and walls to support repetitive and iterative training on the full spectrum of functional defeat options. Structure will include cast in place blast test reaction frames walls, roofs and interior walls that allow necessary breaching and use. Entry points will be reconfigurable with anchors for continuous replacement due to damage from breaching. Structure will have support facilities as required by code and training. Heating and cooling requirements for the telecommunications rooms will be provided by self- contained units. Supporting Facilities include electric service, storm drainage, and site improvements. Accessibility for individuals with disabilities is not required as this facility is for training by able-bodied personnel only. Measures in accordance with Department of Defense (DoD) Minimum Antiterrorism for Building standards will not be provided as this is an uninhabited facility. Comprehensive building and furnishings related interior design services are not required. Sustainability and energy enhancement measures are included as applicable for an uninhabited facility. Cybersecurity measures are not applicable as this facility is a range with minimal communication.

11. Requirement: 1,784 SM (19,200 SF) **Adequate:** 0 SM (0 SF) **Substandard:** 0 SM (0 SF)

PROJECT: Construct a Training Target Structure. (Current Mission)

REQUIREMENT: Unit requires Training Target Structure to support its mission. No current facility exists that provides realistic conditions for this necessary training to support the unit's mission. Structure will

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
CONUS UNSPECIFIED	TRAINING TARGET STRUCTURE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	171	81890	14,400

provide infrastructure and walls to support repetitive and iterative training on the full spectrum of functional defeat options. It will allow the unit to train realistically on advanced target. Having the ability to train prior to real life scenarios will increase the unit's mission readiness and capabilities.
CURRENT SITUATION: Unit currently does not possess a structure for this type of specialized training. Panels are utilized to practice target defeat maneuvers but do not recreate the physical constraints of breaching within an actual building. Other training venues are utilized but do not meet the requirements for sustainment training to defeat complex, hardened facility targets.
IMPACT IF NOT PROVIDED: If this project is not provided, unit will not be able to fully support mission requirements and train individuals to meet unique missions. Personnel will continue to train in substandard facilities to best ability. Current full spectrum training can only be accomplished at expensive single-use venues. Sustainable, repetitive full spectrum training on facility defeat options will remain unavailable.
ADDITIONAL: Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. Mission requirements, operational considerations, and location are incompatible with use by other components. This project has been coordinated with the installation physical security plan, and all physical security measures are included. Storm water management Low Impact Development will be included in the project as appropriate. No antiterrorism protection measures are required. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13693 and other applicable laws and Executive Orders. The project site flood vulnerability determination has been accomplished by the installation and will be part of the project planning process; project site is located above the 100-year flood plain.
JOINT USE CERTIFICATION: N/A. USSOCOM budgets only for those facilities specifically for SOF use. Common support facilities are budgeted by the military departments. Reference Title 10, Section 165.

12. Supplemental Data:

A. Estimated Execution Data	
(1) Acquisition Strategy:	Design Bid Build
(2) Design Data	
(a) Design or Request for Proposal (RFP) Started:	Jan 2019
(b) Percent of Design Completed as of Jan 2020	65%
(c) Design or RFP Complete:	Jul 2020
(d) Total Design Cost ($000):	300
(e) Energy Study and/or Life Cycle Analysis performed:	No
(f) Standard or definitive design used:	No
(3) Construction Data	
(a) Contract Award:	Apr 2021
(b) Construction Start:	Jul 2021
(c) Construction Complete:	Jan 2023

B. Equipment Associated With This Project Which Will be Provided From Other Appropriations:

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA *(Continuation)*	2. DATE (YYYYMMDD)	REPORT CONTROL SYMBOL
USSOCOM		FEB 2020	DD-A&T(A)1610

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
CONUS UNSPECIFIED	TRAINING TARGET STRUCTURE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
1140415BB	171	81890	14,400

Equipment Nomenclature	Procuring Appropriation	FY Appropriated or Requested	Cost ($000)
C4I Equipment	O&M, D-W	2022	400
Collateral Equipment	PROC, D-W	2022	200

Joint Special Operations Command
Telephone: (910) 243-0550
This Headquarters has reviewed and validated the accuracy of the project justification.

THIS PAGE INTENTIONALLY LEFT BLANK

FY 2021 Energy Resilience and Conservation Investment Program

Project List

Project No.	Location	State	Project Description	Project Type[1]		Project Cost ($000)	SIR[2,3]
Army							
95173	Military Ocean Terminal	CA	Military Ocean Terminal Concord Microgrid	ER	$	29,000	NA
Army Program Totals			**1 Project**		**$**	**29,000**	**NA**
Navy							
P235	NSA South Potomac	MD	Chemical Biological Incident Response Force (CBIRF) / Indian Head Explosive Ordnance Disposal Technical Division Headquarters (IHEODTD) / Housing Potable Water	EC	$	18,460	2.2
P839	NSA Monterey	CA	Cogeneration Plant at B236	ER	$	10,540	NA
P1297	Wallops Island	VA	Wallops Generation and Distribution Resiliency Improvements	ER	$	9,100	NA
P1109	NSA Naples	Italy	Smart Grid - NSA Naples	ER	$	3,490	NA
Navy Program Totals			**4 Projects**		**$**	**41,590**	**2.2** [2]
Air Force							
LKTC223104	Creech AFB	NV	Central Standby Generators	ER	$	32,000	NA
YWHG1079962	Whiteman AFB	MO	Install 10 MW Combined Heat and Power (CHP) Plant	ER	$	17,310	NA
Air Force Program Totals			**2 Projects**		**$**	**49,310**	**NA**
Marine Corps							
P-1238	Marine Corps Air Ground Combat Center (MCAGCC) / Twentynine Palms	CA	Install 10 MW Battery Energy Storage for Various Buildings	ER	$	11,646	NA
Marine Corps Program Totals			**1 Project**		**$**	**11,646**	**NA**
DHA							
P-1803	NMC Portsmouth / Portsmouth	VA	Retrofit Air Handling Units (AHUs) from Constant Volume Reheat (CVR) to Variable Air Volume (VAV)	EC	$	611	16.1
DHA Program Totals			**1 Project**		**$**	**611**	**16.1**
DIA							
2019030003	Joint Base Anacostia Bolling	DC	Industrial Controls System Modernization	ER	$	10,343	NA
DIA Program Totals			**1 Project**		**$**	**10,343**	**NA**
ERCIP Program Totals			**10 Projects**		**$**	**142,500**	**2.6** [2]

[1] ER is for Energy Resilience projects and EC is for Energy Conservation projects

[2] SIR is Savings to Investment Ratio ($ est. discounted lifetime savings / $ invested)

[3] Per 10 USC 2914, congressional notification of SIR is required for energy conservation projects only

Energy Resilience Projects (8)	**$**	**123,429**	**NA**
Energy Conservation Projects (2)	**$**	**19,071**	**2.6**
Total (10 Projects)	**$**	**142,500**	**2.6** [2]

THIS PAGE INTENTIONALLY LEFT BLANK

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEB 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
VARIOUS	UNSPECIFIED MINOR CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
N/A	N/A	N/A	69,186

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Unspecified Minor Construction				**69,186**
Defense Health Agency				(20,000)
Defense Logistics Agency				(9,726)
DoD Education Activity				(8,000)
Missile Defense Agency				(4,922)
Joint Chiefs of Staff				(5,840)
U.S. Special Operations Command				(17,698)
Defense Level Activities				(3,000)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Funds to be utilized for construction activities authorized under section 2805, Title 10 of United States Code, by the Defense Agencies and Secretary of Defense activities.

11. REQUIREMENT:

New and expanded facilities supporting Defense-wide missions with a cost up to $6,000,000 adjusted for location (not to exceed $10,000,000) within the U.S. and territories, and up to $6,000,000 elsewhere. The amount requested is considered a reasonable estimate to provide the numerous Defense Agencies and Activities flexibility in managing their construction programs.

The minor construction activities include the Joint Chiefs of Staff sponsored exercise related construction program.

12. Supplemental Data:

N/A

DD FORM 1391, JUL 1999

THIS PAGE INTENTIONALLY LEFT BLANK

1. COMPONENT	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. Date FEB 2020
3. INSTALLATION AND LOCATION VARIOUS	4. PROJECT TITLE: PLANNING & DESIGN	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
N/A	N/A	N/A	159,976

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Planning and Design				**159,976**
Defense Health Agency				(64,406)
DoD Education Activity				(27,746)
National Security Agency				(10,303)
U.S. Special Operations Command				(32,624)
Defense Level Activities				(10,647)
ERCIP Design				(14,250)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Funds to be utilized under Title 10 USC 2807 by the Defense Agencies and Secretary of Defense activities for architectural and engineering services and construction design in connection with military construction projects including specified projects, standing authority construction (including unspecified minor construction) projects, land appraisals, and other projects as directed. Engineering investigations, such as field surveys and foundation exploration, will be undertaken as necessary.

11. REQUIREMENT:

All construction projects must be based on sound engineering and the best cost data available. These costs for architectural and engineering services and construction design are not provided for in the construction project cost estimates except in those where Design/Build contracting method is used.

Defense level activities covers planning and design for various defense activities, planning and design associated with exercise related construction, and covers efforts across the Department to standardize and distribute uniform design criteria.

Energy Resilience and Conservation Investment Program (ERCIP) Design provides the planning and design required to support ERCIP projects.

12. Supplemental Data:

N/A

THIS PAGE INTENTIONALLY LEFT BLANK

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
DEFW	ZU	2021	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	142,500
DEFW	ZU	2022	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	150,000
DEFW	ZU	2023	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	150,000
DEFW	ZU	2024	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	150,000
DEFW	ZU	2025	Unspecified Worldwide Locations	Energy Resilience and Conserv. Invest. Prog.	150,000
DHA	GY	2021	Rhine Ordnance Barracks	Medical Center Replacement INC 9	200,000
DHA	MD	2021	Bethesda Naval Hospital	MEDCEN Addition/Alteration Incr 4	180,000
DHA	MO	2021	Fort Leonard Wood	Hospital Replacement INC 3	40,000
DHA	CA	2022	Miramar	Ambulatory Care Center Addition/Alteration	86,000
DHA	CA	2022	San Diego	Ambulatory Care/Dental Clinic Replacement	78,000
DHA	CA	2022	Travis AFB	Medical Warehouse Addition	29,580
DHA	DE	2022	Dover AFB	Blood Processing Center	16,000
DHA	HI	2022	Joint Base Pearl Harbor-Hickam	Veterinary Treatment Facility Replacement	23,562
DHA	MD	2022	Bethesda Naval Hospital	MEDCEN Addition Incr 5	183,200
DHA	MD	2022	Patuxent River	Ambul Care Center/Dental Clinic Replacement	40,100
DHA	MO	2022	Fort Leonard Wood	Hospital Replacement Incr 4	160,000
DHA	NM	2022	Kirtland AFB	Bioenvironmental Clinic	7,000
DHA	TX	2022	Lackland AFB	Dental Clinic Replacement	61,000
DHA	UK	2022	Royal Air Force Lakenheath	Hospital Replacement Phase 1	24,786
DHA	VA	2022	Fort Belvoir	Veterinary Clinic Replacement	26,000
DHA	WA	2022	Joint Base Lewis-Mcchord	Ambulatory Care Center	21,828
DHA	WA	2022	Oak Harbor	Hospital Replacement (Oak Harbor)	54,000
DHA	CA	2023	Camp Pendleton	Ambulatory Care Center Add/Alt	15,000
DHA	CA	2023	Camp Pendleton	Ambulatory Care Center Addition/Alteration	17,000
DHA	CA	2023	Camp Pendleton	Ambulatory Care Center Replacement	31,000
DHA	CA	2023	Camp Pendleton	Veterinary Treatment Facility Replacement	14,000
DHA	GB	2023	Guantanamo Bay Naval Station	Hospital Replacement	208,500
DHA	MD	2023	Bethesda Naval Hospital	MEDCEN Additio/Alteration Incr 6	125,000
DHA	MO	2023	Fort Leonard Wood	Hospital Replacement Incr 5	31,300
DHA	SC	2023	Beaufort	Ambulatory Care Center Replacement	63,000
DHA	SC	2023	Parris Island	Dental Clinic Replacement	49,000
DHA	HI	2024	Joint Base Pearl Harbor-Hickam	Ambulatory Care Center Replacement	380,000
DHA	HI	2024	Schofield Barracks	Ambulatory Care Center Alt & Parking Garage	146,000
DHA	CO	2025	Fort Carson	Ambulatory Care Center	24,000
DHA	CO	2025	Fort Carson	Preventive MedicineClinic Replacement	11,000
DHA	DC	2025	Bolling AFB	Ambulatory Care Center	30,000
DHA	GY	2025	Baumholder	Ambulatory Care Center Replacement	24,000
DHA	KR	2025	Kunsan Air Base	Ambulatory Care Center	21,000
DHA	NC	2025	Fort Bragg	Ambulatory Care Center Replacement	27,000
DHA	ND	2025	Grand Forks AFB	Ambulatory Care Center Replacement	32,000
DHA	SC	2025	Charleston Naval Weapon Station	MH/ED & Training Clinic	9,000

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
DHA	UK	2025	Royal Air Force Lakenheath	Hospital Replacement Phase 2	270,000
DHA	VA	2025	Yorktown	Ambulatory Care Center Replacement	24,000
DHA	WA	2025	Kitsap	Ambulatory Care Center Replacement	49,000
DHA	WA	2025	Kitsap	Veterinary Treatment Facility Replacement	12,000
DIA	AL	2024	Redstone Arsenal	MSIC Advanced Analysis Facility Phase 1	122,570
DIA	AL	2025	Redstone Arsenal	MSIC Advanced Analysis Facility Phase 2	114,376
DISA	AZ	2021	Fort Huachuca	Laboratory Building	33,728
DLA	AL	2021	Anniston Army Depot	Demilitarization Facility	18,000
DLA	CA	2021	Beale AFB	Bulk Fuel Tank	22,800
DLA	JA	2021	Def Fuel Support Point Tsurumi	Fuel Wharf	49,500
DLA	OH	2021	Wright-Patterson AFB	Hydrant Fuel System	23,500
DLA	TX	2021	Fort Hood	Fuel Facilities	32,700
DLA	WA	2021	Joint Base Lewis-Mcchord	Fuel Facilities (Lewis Main)	10,900
DLA	WA	2021	Joint Base Lewis-Mcchord	Fuel Facilities (Lewis North)	10,900
DLA	WA	2021	Manchester	Bulk Fuel Storage Tanks Phase 1	82,000
DLA	GY	2022	Gemersheim	EDI: Hazardous materials Warehouse	31,000
DLA	JA	2022	Iwakuni	Construct Bulk Storage Tanks (PH-2)	40,000
DLA	JA	2022	Misawa AB	Additive Injectors	6,000
DLA	JA	2022	Okinawa	Chibana Compound	24,000
DLA	JA	2022	Yokota AB	Bulk Storage Tanks PH1 INC	66,305
DLA	AL	2023	Anniston Army Depot	General Pupose Warehouse	21,000
DLA	JA	2023	Kadena AB	Refueler Parking Area	6,400
DLA	MD	2023	Joint Base Andrews	Hydrant System to FAC5023	20,400
DLA	MO	2023	Whiteman AFB	Replace Flight Fill Station	6,000
DLA	NM	2023	Cannon AFB	Constant Pressure Fuel System	7,500
DLA	TK	2023	Incirlik AB	Hydrant Fuel System, "B" Ramp	45,000
DLA	UK	2023	Royal Air Force Lakenheath	Hot Pit Hydrant Fueling System	18,400
DLA	WA	2023	Manchester	Replace Bulk Storage Tanks PH 2	64,000
DLA	AK	2024	Eielson AFB	Replace Fuels Operation Facility & Lab	11,500
DLA	FL	2024	Macdill AFB	Hydrant Fueling System	8,600
DLA	FL	2024	Tyndall AFB	Construct Type IV Hydrant System	30,500
DLA	GY	2024	Ramstein AB	Consolidate Fuel Facilities	6,100
DLA	HI	2024	Joint Base Pearl Harbor-Hickam	Additive Injector System	9,000
DLA	JA	2024	Camp Butler	Truck Offload System	7,000
DLA	JA	2024	Iwakuni	Construct Bulk Storage Tanks PH 3	20,000
DLA	JA	2024	Misawa AB	Construct Truck Offload Facility	6,400
DLA	MT	2024	Great Falls IAP	Fuel Complex	16,500
DLA	OH	2024	Camp Ravenna	Bulk and Retail Fuel Point	4,500
DLA	PA	2024	Def Distribution Depot New Cumberland	General Purpose Warehouse (730)	58,600
DLA	SP	2024	Rota	Bulk Tank Farm (PH-1 of 4)	71,000
DLA	TX	2024	Corpus Christi Army Depot	Construct General Purpose Warehouse	36,400

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
DLA	AZ	2025	Luke AFB	Replace Refueler Parking & Ops Facility	9,000
DLA	CA	2025	Travis AFB	Construct Military Service Station	5,000
DLA	CA	2025	Twentynine Palms, California	Construct Fuel Facility Camp Wilson	11,000
DLA	CO	2025	Fort Carson	Construct General Purpose Warehouse	20,000
DLA	FL	2025	Macdill AFB	Construct Hydrant Fueling System	5,000
DLA	HI	2025	Joint Base Pearl Harbor-Hickam	Replace General Purpose Warehouse	59,000
DLA	JA	2025	Atsugi	Construct Bulk StorageTank	18,000
DLA	JA	2025	Misawa AB	Construct Covered Shelter	13,000
DLA	JA	2025	Yokosuka	Replace GV Fuel Facility	5,000
DLA	MD	2025	Fort Meade	Construct Fuel Facilities	7,000
DLA	MO	2025	Whiteman AFB	Vehicle Fill Station	7,000
DLA	PA	2025	Def Distribution Depot New Cumberland	Replace Electrical Power Station	13,000
DLA	SD	2025	Ellsworth AFB	Replace Hydrant System South Ramp	30,000
DLA	TX	2025	Dyess Air Force Base	Hydrant Fueling System	11,000
DLA	WA	2025	Manchester	Bulk Storage Tanks PH3 Replacement	72,000
DODEA	JA	2021	Yokosuka	Kinnick High School INC	30,000
DODEA	KY	2021	Fort Knox	Van Voorhis Elementary School	69,310
DODEA	GY	2022	Baumholder	Baumholder ES-Replace School	73,860
DODEA	GY	2022	Ramstein AB	EIC Project-New School	98,040
DODEA	JA	2022	Yokosuka	Kinnick High School INC	100,386
DODEA	JA	2023	Yokota AB	Kubasaki High School Replacement/Renovation	156,000
DODEA	UK	2023	Royal Air Force Lakenheath	Lakenheath High School Replacement	90,000
DODEA	GY	2024	Baumholder	Baumholder MS/HS	83,000
DODEA	GY	2024	Ramstein AB	EIC Project	91,000
DODEA	JA	2024	Yokota AB	Mendel ES	121,000
DODEA	NC	2024	Fort Bragg	Albritton JHS Addition	67,000
DODEA	GY	2025	Stuttgart	Patch MS	86,000
DODEA	JA	2025	Kadena AB	Stearley Heights Elementary School	140,000
DODEA	JA	2025	Yokosuka	Sullivans ES-Replace School	140,000
DTRA	NM	2021	Kirtland AFB	Administrative Building	46,600
MDA	AK	2021	Fort Greely	Communications Center	48,000
NGA	MO	2021	St Louis	Next NGA West (N2W) Complex Phase 2 INC	119,000
NSA	MD	2021	Fort Meade	NSAW Recapitalize Building #3 INC	250,000
NSA	MD	2022	Fort Meade	CAO Mission	195,000
NSA	MD	2022	Fort Meade	NSAW Recap Building 3A	39,000
NSA	MD	2022	Fort Meade	NSAW Recap Building 4, Incr	154,000
NSA	MD	2023	Fort Meade	Archive	98,000
NSA	MD	2023	Fort Meade	NSAW Recap Building 4, Incr	348,556
NSA	MD	2024	Fort Meade	NSAW Recap Building 4, Incr	374,000
NSA	MD	2025	Fort Meade	NSAW Recap Building 4, Incr	411,000
NSA	MD	2025	Fort Meade	NSAW Recapitalize Building #3 INC	6,000

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
SOCOM	AZ	2021	Yuma	SOF Hangar	49,500
SOCOM	CO	2021	Fort Carson	SOF Tactical Equipment Maintenance Facility	15,600
SOCOM	FL	2021	Hurlburt Field	SOF Combat Aircraft Parking Apron-North	38,310
SOCOM	FL	2021	Hurlburt Field	SOF Special Tactics Ops Facility (23 STS)	44,810
SOCOM	NC	2021	Fort Bragg	SOF Group Headquarters	53,100
SOCOM	NC	2021	Fort Bragg	SOF Military Working Dog Facility	17,700
SOCOM	NC	2021	Fort Bragg	SOF Operations Facility	43,000
SOCOM	VA	2021	Joint Expeditionary Base Little Creek - Story	SOF DCS Operations Fac. and Command Center	54,500
SOCOM	VA	2021	Joint Expeditionary Base Little Creek - Story	SOF NSWG-2 NSWTG CSS Facilities	58,000
SOCOM	YN	2021	CONUS Unspecified	Training Target Structure	14,400
SOCOM	CA	2022	Coronado	SOF SERE Training Facility	26,500
SOCOM	FL	2022	Eglin AUX9	SOF Fuel Cell Hangar	16,200
SOCOM	FL	2022	Hurlburt Field	SOF Human Performance Training Center	8,915
SOCOM	GA	2022	Fort Benning	SOF MI Battalion Headquarters	20,000
SOCOM	GA	2022	Fort Stewart	SOF Military Working Dog Kennel Facility	7,400
SOCOM	GA	2022	Hunter Army Airfield	SOF Indoor Range	19,500
SOCOM	MD	2022	Fort Meade	SOF Operations Facility	100,000
SOCOM	NC	2022	Fort Bragg	SOF ARMS ROOM ADDITION	4,500
SOCOM	NC	2022	Fort Bragg	SOF Operations Building	12,800
SOCOM	VA	2022	Dam Neck	SOF Operations Facility Renovation	7,500
SOCOM	WA	2022	Joint Base Lewis-Mcchord	SOF Consolidated Rigging Facility	43,000
SOCOM	WA	2022	Joint Base Lewis-Mcchord	SOF Tactical Equipment Maintenance Facility	16,500
SOCOM	CA	2023	Coronado	SOF WARCOM Operations Support Facility	77,000
SOCOM	FL	2023	Homestead AFS	SOF Controlled Humidity Warehouse	9,604
SOCOM	FL	2023	Hurlburt Field	SOF Parking Apron (AC-130J)	41,304
SOCOM	GY	2023	Baumholder	SOF Battalion Annex	13,886
SOCOM	GY	2023	Baumholder	SOF Communications Annex	5,240
SOCOM	GY	2023	Baumholder	SOF Human Performance Training Center	8,515
SOCOM	GY	2023	Baumholder	SOF Operational Readiness Annexes	20,000
SOCOM	GY	2023	Baumholder	SOF Operations Annex	12,500
SOCOM	GY	2023	Baumholder	SOF Support Annex	17,292
SOCOM	NC	2023	Camp Lejeune	SOF MRSB and UAS Facilities	16,000
SOCOM	NC	2023	Fort Bragg	SOF Supply Support Activity	6,400
SOCOM	NC	2023	Fort Bragg	SOF Tactical Equipment Maintenance Facility	20,000
SOCOM	VA	2023	Dam Neck	SOF Training Aid & Mock-Up Storage Fac.	12,000
SOCOM	VA	2023	Joint Expeditionary Base Little Creek - Story	SOF Human Performance Training Center	23,200
SOCOM	CA	2024	Coronado	SOF ATC Operations Support Facility	20,200
SOCOM	CA	2024	Coronado	SOF Multi Purpose Canine Facility	7,230
SOCOM	CA	2024	Coronado	SOF NSWG11 Operations Support Facility	7,600
SOCOM	FL	2024	Homestead AFS	SOF Rigging and Drying Facility	3,960
SOCOM	FL	2024	Hurlburt Field	SOF Simulator Facility (AC-130J)	13,000

Organization	State Country	Fiscal Year	Location Title	Line Item Title	TOA Amount
SOCOM	FL	2024	Macdill AFB	SOCCENT Operations Facility	21,181
SOCOM	GA	2024	Fort Benning	SOF RSTA Operations Facility	4,150
SOCOM	KY	2024	Fort Campbell	SOF Readiness Facility	17,000
SOCOM	NC	2024	Fort Bragg	SOF Baffle Containment for Range 19C	7,100
SOCOM	NC	2024	Fort Bragg	SOF Deployment Facility	9,000
SOCOM	NC	2024	Fort Bragg	SOF Joint Intelligence Center	56,100
SOCOM	NC	2024	Fort Bragg	SOF Mackall Company Operations Facilities	4,350
SOCOM	PA	2024	Harrisburg	SOF Simulator Facility EC-130J	8,900
SOCOM	VA	2024	Fort Pickett	SOF SOUC Training Facility	45,530
SOCOM	VA	2024	Humphreys Engineer Center	SOF Battalion Operations Facility	35,000
SOCOM	VA	2024	Joint Expeditionary Base Little Creek - Story	SOF TRADET TWO Operations Facility	25,900
SOCOM	WA	2024	Joint Base Lewis-Mcchord	SOF Human Performance Training Center	18,500
SOCOM	WA	2024	Joint Base Lewis-Mcchord	SOF Language Facility	11,600
SOCOM	WA	2024	Joint Base Lewis-Mcchord	SOF Tactical Unmanned Aerial Vehicle Hangar	3,800
SOCOM	AZ	2025	Yuma	SOF Military Free Fall Advanced Training Comp	44,800
SOCOM	CA	2025	Coronado	SOF SEAL Team SEVENTEEN Ops Facility	30,600
SOCOM	CA	2025	San Clemente Island	SOF Combatant Craft Launch & Recovery Fac.	14,800
SOCOM	CO	2025	Fort Carson	SOF Group HQs Expansion	40,000
SOCOM	FL	2025	Eglin AFB	SOF Deployment Readiness Warehouse	12,800
SOCOM	FL	2025	Hurlburt Field	SOF Simulator Facility (Manned ISR)	8,500
SOCOM	FL	2025	Hurlburt Field	SOF Small Arms Range	30,400
SOCOM	NC	2025	Camp Lejeune	SOF CSS/Motor Transport Maintenance Expansion	15,000
SOCOM	NC	2025	Camp Lejeune	SOF EOD Facility	13,000
SOCOM	NC	2025	Fort Bragg	SOF Battalion Operations Facility	41,000
SOCOM	NC	2025	Fort Bragg	SOF Close Quarters Combat Range	7,200
SOCOM	NC	2025	Fort Bragg	SOF FOB Freedom Upgrades	11,000
SOCOM	NC	2025	Fort Bragg	SOF MI Battalion Operations Facility	21,000
SOCOM	NC	2025	Fort Bragg	SOF Research Analytic Center	7,500
SOCOM	NC	2025	Fort Bragg	SOF SERE TRAINING FACILITY	13,300
SOCOM	VA	2025	Dam Neck	SOF Multi-Purpose Range	32,000
SOCOM	VA	2025	Humphreys Engineer Center	SOF Battalion Ops. Fac.	33,000
SOCOM	VA	2025	Joint Expeditionary Base Little Creek - Story	NSWG-4 Finger Piers	4,500
WHS	VA	2022	Pentagon	Consolidated Maintenance Complex (RRMC)	33,465
WHS	VA	2022	Pentagon	Public Works and Operational Support Faciliti	19,000
WHS	VA	2022	Pentagon	Water Storage and Fencing	14,949
WHS	VA	2023	Pentagon	Metro Entrance Pedestrian Access Control Poin	32,000
WHS	VA	2024	Pentagon	Site C Building	34,000
WHS	VA	2025	Pentagon	Pentagon Corridor 8 Bridge Canopy	10,964
WHS	VA	2025	Pentagon	West End Safety Upgrade	15,000

THIS PAGE INTENTIONALLY LEFT BLANK

Host Country In-Kind Contributions
Republic of Korea Funded Construction
Calendar Year (CY) 2021
Installation Index
Authorization Request

Service	Base/Camp	Project Title	CY 2021	Total	Page No.
Defense-Wide			**58,000**	**58,000**	
	Department of Defense Education Activity (DODEA)				
	Camp Humphreys				
		Elementary School	58,000	58,000	149

1. COMPONENT	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
DoDEA		February 2020

3. INSTALLATION AND LOCATION	4. PROJECT TITLE:
CAMP HUMPHREYS, KOREA	ELEMENTARY SCHOOL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	730-46	A11R925 (92802)	58,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				**43,063**
Elementary School	SF	99,394	371.32	(36,907)
Nonorganizational Vehicle Parking	SF	56,188	5.20	(292)
Multipurpose Athletics Field	EA	1	993,893	(994)
Special Foundation	EA	1	1,521,000	(1,521)
Playground	LS			(871)
Cybersecurity Measures	LS			(750)
Sustainability/Energy Measures	LS			(737)
Building Information Systems	LS			(991)
SUPPORTING FACILITIES				**8,601**
Electric Service	LS			(537)
Water, Sewer, Gas	LS			(922)
Paving, Walks, Curbs and Gutters	LS			(430)
Storm Drainage	LS			(829)
Site Imp(3,935) Demo ()	LS			(3,935)
Information Systems	LS			(33)
Communication Lines	LS			(1,915)
SUBTOTAL				**51,664**
Contingency (5%)				(2,583)
TOTAL CONTRACT COST				**54,247**
Supervision, Inspection And Overhead (6%)				(3,255)
TOTAL REQUEST				**57,502**
TOTAL REQUEST (ROUNDED)				**58,000**
EQUIPMENT FROM OTHER APPROPRIATION				(672)

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Utilize host-nation funding to construct a two-story, 440 student, elementary school facility with playground, non-organizational parking, and a multipurpose athletic field. The school shall be constructed in accordance with (IAW) DoDEA Education Facilities specifications, Elementary Schools version 3.0 dated 4 June 2010. Facilities will be designed in accordance with DoDEA Education Facilities Specifications, DoD Unified Facilities Criteria and other applicable codes. Typical construction such as poured in place concrete and structural steel is anticipated to consist of drilled piers, poured in place concrete, metal studs and concrete block interior partitions. The finished facility must include the following: loading/service areas, information systems, fire protection and alarm systems. Installation of an Intrusion Detection System (IDS) and Energy Monitoring Control Systems (EMCS) connection will be included. Supporting facilities include: site development, earthwork, utilities and connections, lighting, paving, covered walkways, ornamental security fencing with accompanying pedestrian and vehicle access gates, curbs and gutters, storm drainage, information systems, dumpster pad w/screening, landscaping, and signage. Underground storm water management system in compliance with Low Impact Design (LID) criteria are required. Access for children and adults with disabilities shall be provided per the Americans with Disabilities Act (ADA). Sustainable Design and Development (SDD) and the Energy Policy Act of 2005 features will be provided. Cybersecurity requirements in accordance with Engineering Construction Bulletin (ECB 2015-14) are included.

11. REQUIREMENT: 99,394 SF **ADEQUATE: 0 SF** **SUBSTANDARD:**

1. COMPONENT	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE
DoDEA		February 2020

3. INSTALLATION AND LOCATION	
CAMP HUMPHREYS, KOREA	
4. PROJECT TITLE	**5. PROJECT NUMBER**
ELEMENTARY SCHOOL	A11R950 / 92802

PROJECT: Construct an elementary school and a multipurpose athletic field (Current Mission)

REQUIREMENT: A new elementary school is required to support current and future growing population of military and civilian dependents. The elementary school consists of functional areas containing: general purpose classrooms, multipurpose computer laboratory, art room, music room, gym, multipurpose room, information center, special education spaces, occupational/physical therapy, special education office suite, administration suite, guidance counseling suite, health suite, food service, janitorial workroom, maintenance support, school supply/storage area, teacher workroom, technology service center, receiving room, and other required areas for a fully functioning elementary school.

CURRENT SITUATION: Adequate permanent facilities are not available to support this requirement. All existing facilities suitable for use under this facility category code are fully utilized.

IMPACT IF NOT PROVIDED: The use of undersized facilities will continue to impair the overall education program for students by negatively impacting the quality of life for the military and civilian work force and their family.

ADDITIONAL:

A. JOINT USE CERTIFICATE: This facility will be available for use by the other components.

B. HOST NATION: This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. Host Nation funding will be used to support this requirement.

C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.

D. ANTI TERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in UFC 4-010-01. All facilities will meet current UFC 4-010-01 standards for buildings and site. Such additional AT/FP site features will include concrete or metal pop-up bollards and/or curbs that are at least eight inches high compared to road level to act as barriers to ensure stand-off distance is met in accordance with the reference above. Major AT/FP building features will include design for blast resistant windows, an Emergency Air Distribution Shutoff, and ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.

E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project in accordance with the current US Army Sustainable Design and Development Policy and other applicable laws and Executive Orders. This facility shall be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the current version of the ASHRAE Standard 90.1 or the International Energy Conservation Code, as appropriate. All equipment going into this facility must be Energy Star rated or on the Federal Energy Management Program (FEMP) approved list. All utilities shall be metered using advanced meters as defined by FEMP. Strict adherence to the Camp Humphreys Installation Planning Standards is required.

F. Full fire protection is required by regulation and UFC 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by UFC 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include additional zone module cards to transmit exact location data to the fire alarm computer located at the fire department communication center through the building transmitter installed in the building design.

G. The design must comply with Camp Humphreys' Installation Planning Standards.

H. Comprehensive interior design package for the AE to complete as required by UFC 3-120-10.

I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.